

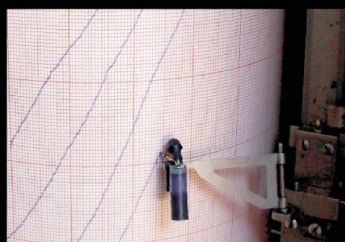


S. R.
MINISTÉRIO DA DEFESA NACIONAL
MARINHA
INSTITUTO HIDROGRÁFICO



PN40

TABELA DE MARÉS



Volume I – PORTUGAL 2025





MINISTÉRIO DA DEFESA NACIONAL
MARINHA
INSTITUTO HIDROGRÁFICO

TABELA DE MARÉS 2025

VOLUME I

PORTUGAL



LISBOA — PORTUGAL

2024

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PREFÁCIO

- 1 — A TABELA DE MARÉS, 2025 — Volume I — PORTUGAL, contém previsões de marés para os portos principais de Portugal, elementos de concordância entre estes e outros locais próximos e, em alguns portos, previsões de alturas horárias.
- 2 — A qualidade de futuras previsões depende também, e em boa parte, do apoio que as autoridades portuárias e outras entidades possam fornecer ao Instituto Hidrográfico. No sentido de se procurar uma constante melhoria da informação contida nesta publicação é pedido às autoridades portuárias e outros utentes que mantenham o Instituto Hidrográfico informado sobre quaisquer incorreções que sejam detetadas, designadamente no que se refere a:
- a) Eventuais erros de impressão;
 - b) Discrepâncias significativas entre previsões e observações;
 - c) Detalhes sobre o registo de quaisquer marés excepcionais;
 - d) Detalhes sobre a implantação de novos marégrafos;
 - e) Registos de marégrafos, quando deixarem de ser necessários.

O DIRETOR-GERAL,

João Paulo Ramalho Marreiros
Contra-almirante

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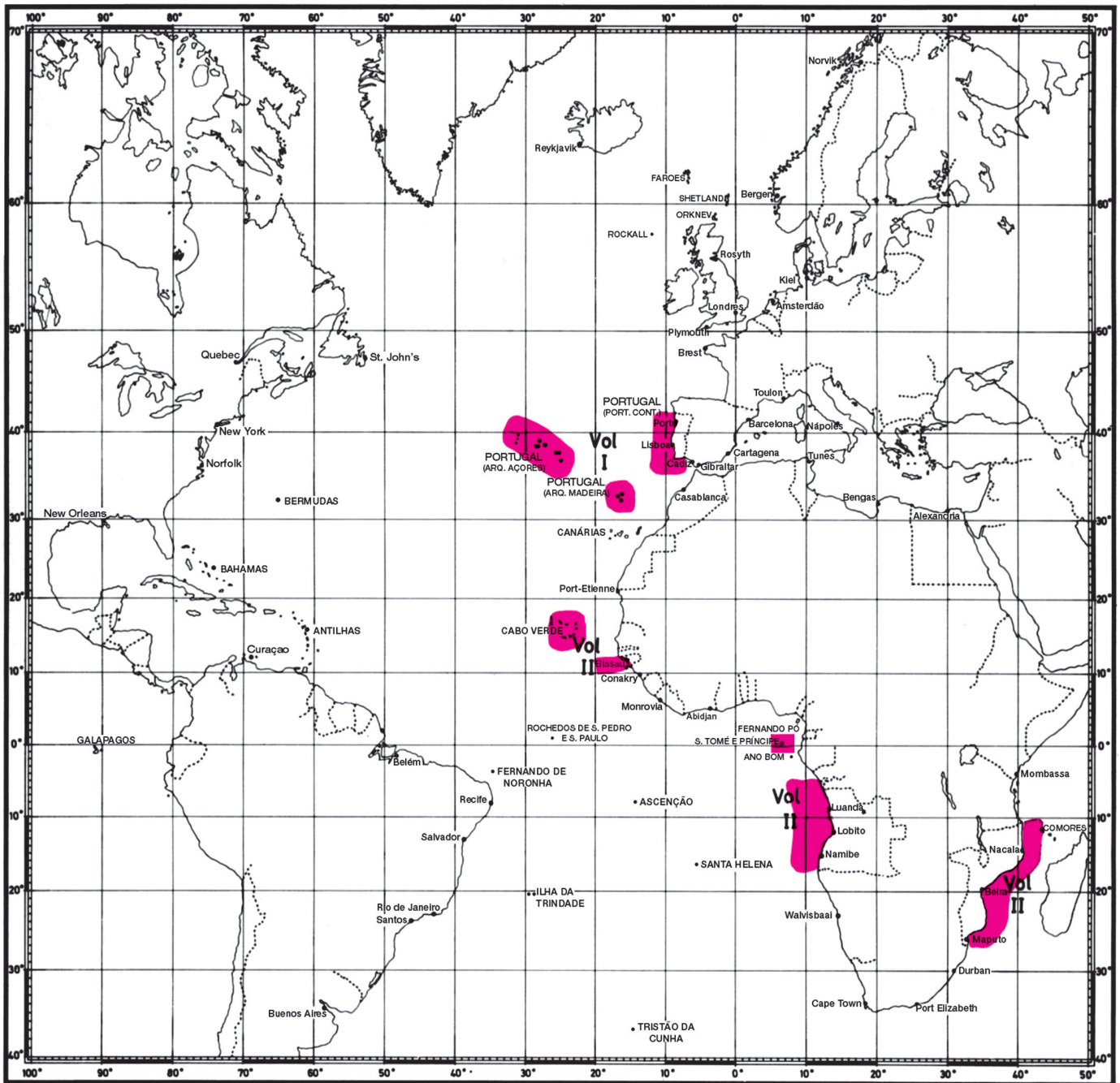
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CAPÍTULO 1

GENERALIDADES

ÁREAS COBERTAS PELOS VOLUMES I E II DAS TABELAS DE MARÉS



CAPÍTULO 1

GENERALIDADES

101 — Organização das Tabelas de Marés

As Tabelas de Marés publicadas pelo Instituto Hidrográfico estão estruturadas de modo a agrupar, em volumes separados, as informações relativas aos portos localizados em território nacional e em Países Africanos de Língua Oficial Portuguesa.

Assim:

Volume I — PORTUGAL – Compreende portos de Portugal Continental e dos Arquipélagos dos Açores e da Madeira.

Volume II — PAÍSES AFRICANOS DE LÍNGUA OFICIAL PORTUGUESA – Compreende portos de Cabo Verde, Guiné-Bissau, S. Tomé e Príncipe, Angola e Moçambique.

As Tabelas incluem a seguinte informação básica:

- Previsões das horas e alturas de água das preia-mares e baixa-mares para os portos principais;
- Previsões de alturas horárias para alguns portos principais do Volume I;
- Concordâncias de marés para locais próximos dos portos principais;
- Constantes harmónicas fundamentais para os portos principais;
- Elementos de marés para os portos principais em 2025;
- Fases da Lua em 2025;
- Calendário 2025;
- Tabela para calcular a altura de maré em qualquer instante e figura explicativa da tabela.

102 — Processo de análise e cálculo das previsões

As previsões apresentadas nas Tabelas de Marés do Instituto Hidrográfico foram calculadas com base em análises harmónicas de séries de observações maregráficas, em regra com a duração de um ano. Os períodos de observações com base nos quais se efetuaram as análises encontram-se indicados na secção «NOTAS» das páginas relativas aos portos respetivos. O número de constituintes (componentes harmónicas da maré) cujas constantes harmónicas podem ser calculadas, e consequentemente a precisão das previsões, dependem da duração da série de observações disponível para cada local. Na maioria dos portos da Tabela de Marés – Volume I, as previsões foram calculadas a partir de períodos de observações de pelo menos um ano.

As constantes harmónicas características de cada constituinte, resultantes da análise harmónica, refletem as variações do nível de água devidas à maré astronómica, e não as variações associadas à maré meteorológica, as quais se manifestam especialmente por oscilações do nível médio do mar de periodicidade mal definida. Os efeitos da variação das condições atmosféricas na variação da altura de água são referidos na secção 104.

As previsões de marés apresentadas nas Tabelas de Marés foram calculadas na Divisão de Oceanografia do Instituto Hidrográfico utilizando a fórmula harmónica. O nível médio das previsões de maré corresponde ao nível médio local adotado para cada porto e encontra-se igualmente indicado na página de notas de cada porto.

103 — Precisão das previsões de marés

As previsões de preia-mar e baixa-mar são valores truncados ao decímetro. As previsões de alturas horárias para alguns dos portos incluídos no Volume I da Tabela de Marés são valores truncados ao centímetro.

É de referir, no entanto, que os desvios entre a altura de maré observada e a altura de maré prevista podem ultrapassar frequentemente 0.1 m, devido à conjugação de efeitos meteorológicos, subida do nível médio do mar, variações sazonais, etc. Nos portos interiores, localizados em rias ou estuários, há também que ter em consideração as variações do nível das águas em consequência de cheias ou estiagens.

A partir da análise sistemática das longas séries de observações maregráficas disponíveis para alguns locais do globo, concluiu-se que o nível médio do mar se encontra em fase de subida, com uma tendência de cerca de 1.75 ± 0.13 milímetros por ano.

Por esta razão e dado que o plano do Zero Hidrográfico (ZH.) foi fixado em relação a níveis médios adotados há várias décadas, são de esperar alturas de água superiores, em cerca de 0.1 m, aos valores indicados na tabela, particularmente em relação aos portos que figuram no Volume I da Tabela de Marés.

No entanto, o referido não implica que não possam ocorrer alturas de água inferiores às previsões apresentadas nas Tabelas de Marés, devido principalmente a efeitos meteorológicos.

104 — Ação das condições meteorológicas

As diferenças entre as alturas de maré previstas e as alturas de maré observadas são principalmente originadas por ventos fortes ou de prolongada duração e por pressões atmosféricas anormalmente baixas ou elevadas. As diferenças em tempo são devidas principalmente à ação do vento.

Pressão atmosférica — Baixas pressões tendem a fazer subir o nível do mar, enquanto que as altas pressões têm um efeito contrário. Convém contudo notar que o nível da água não se ajusta imediatamente às variações da pressão atmosférica, respondendo, na realidade, à variação da pressão média numa área considerável em torno do ponto em causa.

De um modo aproximado, a uma variação de pressão de 10 hectopascal (milibares) corresponde uma variação do nível das águas de 0.09 m.

As diferenças nas alturas de água raramente ultrapassam valores entre 0.3 a 0.4 metros, mas convém ter em atenção que a estas se podem sobrepôr os efeitos de outros fenómenos, como os do vento e das seichas.

Ventos — A ação do vento no nível médio do mar e, conseqüentemente, nas alturas e horas das marés é muito variável e depende substancialmente da fisiografia da área em questão. Dum modo geral, pode afirmar-se que a ação do vento se traduz numa subida do nível do mar no sentido para onde sopra o vento. Um vento forte soprando para terra provoca a elevação do nível do mar e, portanto, alturas de água superiores às previstas. Fenómeno inverso se passa quando o vento sopra de terra para o mar.

Seichas — Mudanças súbitas das condições meteorológicas, como as provocadas pela passagem de uma depressão cavada ou de uma frente ativa, causam oscilações periódicas do nível do mar.

Os períodos podem ser de 5 a 30 minutos e a altura das ondas de 5 a 70 centímetros.

Seichas de pequena amplitude são frequentes e a sua ação faz-se sentir com maior incidência nos portos cujas dimensões e forma os tornam mais suscetíveis a oscilações forçadas.

105 — Horas

À data da elaboração da Tabela de Marés para 2025, as horas legais em vigor estão determinadas pela seguinte legislação:

- Para Portugal Continental: Decreto-Lei n.º 17/96, de 8 de março;
- Para o Arquipélago da Madeira: Decreto Regional n.º 6/96/M, de 25 de junho;
- Para o Arquipélago dos Açores: Decreto Regional n.º 16/96/A, de 1 de agosto.

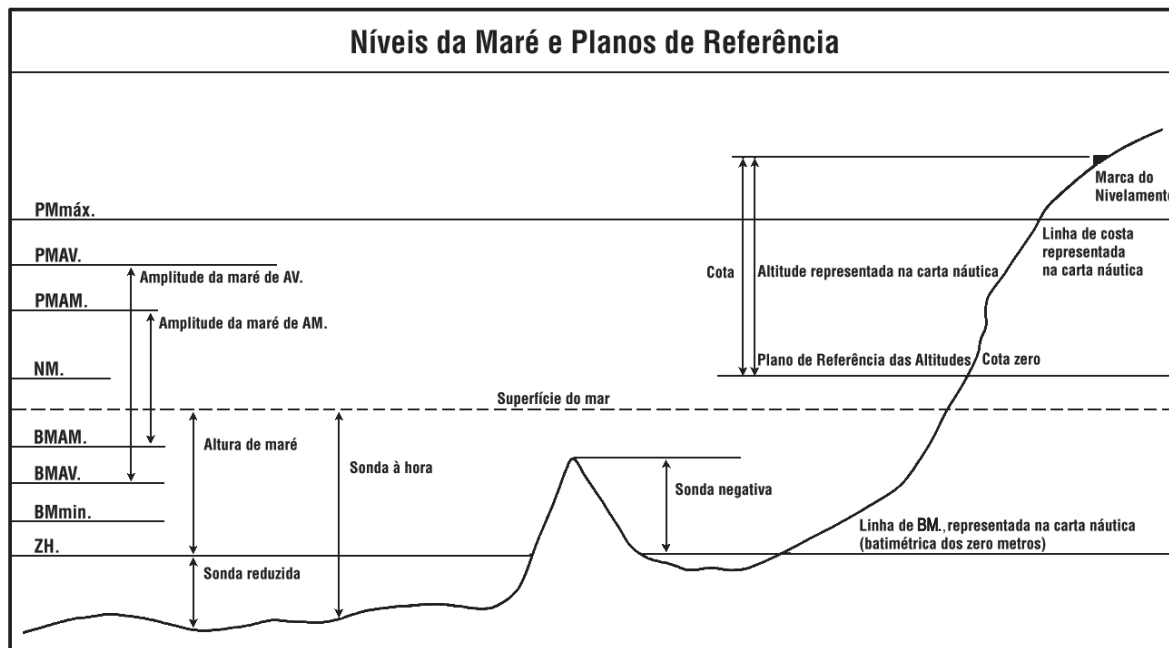
As previsões de marés para os portos que figuram neste volume da Tabela de Marés foram calculadas para o Fuso 0.

Alertam-se os utilizadores deste volume da *Tabela de Marés*, para o facto de as previsões de marés indicadas serem referidas a um fuso horário que poderá não coincidir com o fuso horário correspondente à hora legal.

Em Portugal Continental, Açores e Madeira, entre a 1h TU de 30 de março e a 1h TU de 26 de outubro, deverão os utilizadores adicionar 1 hora aos valores horários indicados na *Tabela de Marés*.

106 — Níveis de referência

Para caracterizar marés com forte desigualdade diurna, é necessário definir quatro novos níveis característicos (não representados na figura anterior):



- PMmáx. Nível da maré astronómica mais alta. É a altura de água máxima que se prevê que possa ocorrer devida à maré astronómica, para o ano a que se refere a publicação.
- PMAV. É o valor médio, tomado ao longo do ano, das alturas de maré de duas preia-mares sucessivas, que ocorrem quinzenalmente quando a amplitude de maré é maior (próximo das situações de Lua Nova ou Lua Cheia).
- PMAM. É o valor médio, tomado ao longo do ano, das alturas de maré de duas preia-mares sucessivas, que ocorrem quinzenalmente quando a amplitude de maré é menor (próximo das situações de Quadro Crescente ou Quarto Minguante).
- NM. Nível médio. É o valor médio adotado para as alturas de água de um determinado porto, resultante de séries de observações maregráficas de duração variável, relativamente ao qual foram elaboradas as previsões.
- BMAM. É o valor médio, tomado ao longo do ano, das alturas de maré de duas baixa-mares sucessivas, que ocorrem quinzenalmente quando a amplitude de maré é menor (próximo das situações de Quarto Crescente ou Quarto Minguante).
- BMAV. É o valor médio, tomado ao longo do ano, das alturas de maré de duas baixa-mares sucessivas, que ocorrem quinzenalmente quando a amplitude de maré é maior (próximo das situações de Lua Nova ou Lua Cheia).
- BMmin. Nível da maré astronómica mais baixa. É a altura de água mínima que se prevê que possa ocorrer devida à maré astronómica, para o ano a que se refere a publicação.
- ZH. Zero Hidrográfico. É o plano de referência em relação ao qual são referidas as sondas e as linhas isobatimétricas nas cartas náuticas, e as previsões de altura de maré que figuram nas Tabelas de Marés do Instituto Hidrográfico. Nas cartas portuguesas, o ZH. fica situado abaixo do nível da maré astronómica mais baixa, pelo que as previsões de altura de maré são sempre positivas.

Para caracterizar marés com forte desigualdade diurna é necessário definir quatro novos níveis característicos (não representados na figura anterior):

- PMsup. É o valor médio, tomado ao longo do ano, das preia-mares mais altas que ocorrem em cada dia. Para os dias em que ocorre apenas uma PM., este fenómeno é incluído na média, por ser considerado o valor extremo nesse dia.
- PMinf. É o valor médio, tomado ao longo do ano, das preia-mares mais baixas que ocorrem em cada dia. Os dias em que ocorre uma só PM. são excluídos da média.
- BMsup. É o valor médio, tomado ao longo do ano, das baixa-mares mais altas que ocorrem em cada dia. Os dias em que ocorre uma só BM. são excluídos da média.
- BMinf. É o valor médio, tomado ao longo do ano, das baixa-mares mais baixas que ocorrem em cada dia. Para os dias em que ocorre apenas uma BM., este fenómeno é incluído na média, por ser considerado o valor extremo nesse dia.

Os valores de PMmáx., PMAV., PMAM., BMAM., BMAV., BMmin., PMsup., PMinf., BMsup. e BMinf. foram obtidos a partir das previsões anuais para os portos incluídos nas Tabelas de Marés, sendo assim válidos para o ano a que a mesma se refere. Os valores destes níveis característicos apresentam-se no Capítulo 3 – Elementos de Marés.

Os elementos de marés variam de ano para ano com uma periodicidade de cerca de 18.6 anos, que corresponde à duração de um ciclo de revolução dos nodos da órbita lunar.

A informação sobre elementos de marés contida nas cartas náuticas é ajustada de modo a ser representativa de todo o ciclo nodal lunar (devido à impossibilidade de atualização anual), podendo num dado ano ser menos precisa que a informação contida nas Tabelas de Marés para esse mesmo ano.

A explicação mais detalhada do significado dos termos acima introduzidos pode encontrar-se no Anexo A-6 — Glossário de Termos.

107 — Fases da Lua

A informação relativa às fases da Lua apresentada nesta publicação foi fornecida pelo U.S. Naval Observatory (USNO).

108 — Alturas de maré

As alturas de maré previstas são expressas em metros e calculadas para cada porto em relação ao ZH. O nível médio das alturas de maré corresponde a um valor médio adotado com base em séries de observações maregráficas de duração variável, em torno do qual oscilam as ondas constituintes da maré astronómica.

Assim, para se obter o valor da profundidade num determinado local e num dado momento, haverá que somar a altura de água indicada pelas Tabelas de Marés ao valor da sonda que figura na carta náutica para esse local (sonda reduzida).

109 — Cálculo da altura de maré em qualquer instante e da hora correspondente a determinada altura de maré

A tabela (que consta no Anexo A) permite determinar a altura de água em qualquer instante, por uma interpolação baseada no pressuposto de que a forma da onda de maré é sinusoidal, o que, em rigor, não sucede.

O cálculo, muito rápido e simples, exige o conhecimento das horas e alturas da preia-mar e da baixa-mar que enquadram o instante pretendido, valores esses que são extraídos diretamente da Tabela de Marés, a determinação da duração da Enchente/Vazante, a amplitude da maré e o tempo que decorre após (ou antes de) a baixa-mar mais próxima.

Exemplo:

Cálculo da altura de água em **Lisboa, no dia 20 de janeiro de 2022, às 13h 00m (TU).**

| | Hora | Altura |
|-----------------------|--------------------|--------------------------------------|
| BM. mais próxima | 10h 34m | 0.8 m |
| PM. mais próxima | 16h 58m | 3.3 m |
| Duração da enchente = | 06h 24m (1) | Amplitude da maré = 2.5 m (2) |

O intervalo desde a hora pretendida até à BM mais próxima é **13h 00m – 10h 34m = 02h 26m** (3)

Na tabela do Anexo A – 4 da «Duração da enchente ou da vazante» procurar a coluna com o valor mais próximo de (1), neste caso, 06:30. Nessa coluna, procurando a linha com o valor mais aproximado do intervalo (3) encontra-se o valor 02:23. Depois, seguindo nessa linha até à coluna da «Amplitude da maré» com o valor mais próximo do calculado em (2), neste caso 2.5, encontra-se como *correção aditiva* o valor 0.74 m.

Aplicando a correção ao valor da BM. prevista, obtém-se:

$$0.8 \text{ metros} + 0.74 \text{ metros} = 1.54 \text{ metros} \sim 1.5 \text{ metros}$$

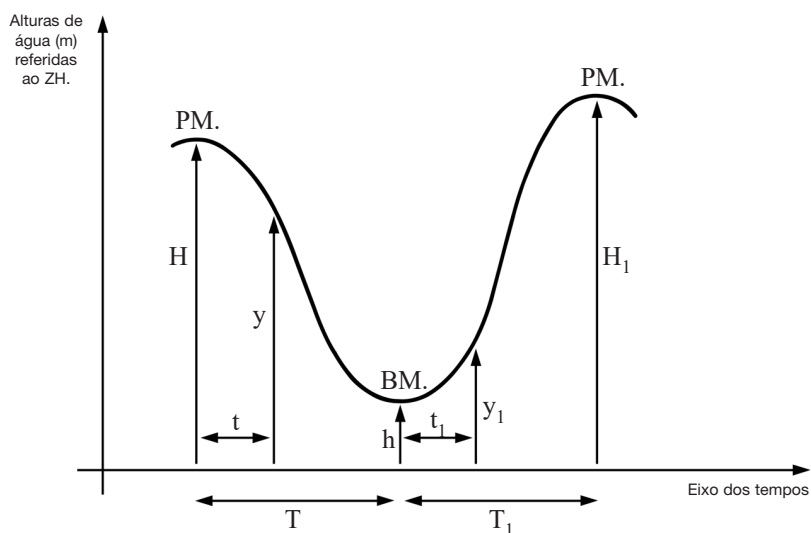
Utilizando a tabela no sentido inverso, é possível determinar a hora correspondente a determinada altura de água.

110 — Cálculo da altura de maré em qualquer instante e da hora correspondente a determinada altura de maré – método analítico

Assumindo que a forma da onda de maré é sinusoidal, o que, como já foi dito, não é rigorosamente verdadeiro, é possível determinar a altura de maré em qualquer instante e da hora correspondente a uma determinada altura de água com recurso a expressões analíticas.

Isto é, conhecendo:

- os valores de H ou H₁ e h (alturas de água das PM. e BM. que enquadram o intervalo de tempo no qual se vai efetuar o cálculo);
- o valor de T ou T₁ (intervalo em tempo entre PM. e BM. ou BM. e PM.);
- o valor de t ou t₁ (intervalo em tempo entre o evento imediatamente anterior (PM. ou BM.) e a hora a que se pretende saber a altura da maré).



Pode calcular-se:

a) A altura de água (y) em qualquer momento depois de uma PM.;

$$y = \frac{H + h}{2} + \frac{H - h}{2} \cos \frac{\pi t}{T}$$

b) A altura de água (y₁) em qualquer momento depois de uma BM.;

$$y_1 = \frac{h + H_1}{2} + \frac{h - H_1}{2} \cos \frac{\pi t_1}{T_1}$$

c) A diferença entre as alturas de água a dado momento e na PM. anterior;

$$H - y = (H - h) \operatorname{sen}^2 \frac{\pi t}{2T}$$

d) A diferença entre as alturas de água a dado momento e na BM. anterior;

$$y_1 - h = (H_1 - h) \operatorname{sen}^2 \frac{\pi t_1}{2T_1}$$

e) O intervalo de tempo (t) após uma PM. em que a maré atinge um dado valor y;

$$t = \frac{T}{\pi} \arccos \frac{2y - H - h}{H - h}$$

f) O intervalo de tempo (t_1) após uma BM. em que a maré atinge um dado valor y_1 .

$$t_1 = \frac{T_1}{\pi} \arccos \frac{2y_1 - h - H_1}{h - H_1}$$

111 — Concordâncias de marés para locais próximos dos portos principais (páginas 3-2 e 3-3)

111.1 Informação disponibilizada

A tabela que consta nas páginas 3-2 e 3-3 «Concordâncias de marés para locais próximos dos portos principais», compreende o nome do porto principal de referência (em maiúsculas), seguido da lista de todos os portos secundários.

Na linha do porto principal figuram os números das páginas com previsões para esse porto, a localização geográfica, o nível médio adotado e as alturas de água das preia-mares e baixa-mares médias, previstas em situação de águas mortas médias e águas vivas médias.

As preia-mares (PM.) e baixa-mares (BM.) médias indicadas para os portos principais em situação de águas vivas (AV.) e águas mortas (AM.) são as publicadas nas Cartas Náuticas Oficiais (CNO). Estes valores não dependem do ano da publicação e foram calculados através das constantes harmônicas do porto em questão da seguinte forma:

$$PMAV = NM + HM_2 + HS_2$$

$$PMAM = NM + HM_2 - HS_2$$

$$BMAM = NM - HM_2 + HS_2$$

$$BMAV = NM - HM_2 - HS_2$$

onde:

NM é o Nível Médio adotado

HM₂ é a amplitude da onda M₂

HS₂ é a amplitude da onda S₂

Nas linhas dos portos secundários estão indicados a posição geográfica e a altura do nível médio local, bem como as correções a aplicar em tempo e em altura quer em águas mortas, quer em águas vivas, relativamente aos valores previstos para o porto principal. Em alguns casos estão igualmente indicadas as relações de amplitude entre o porto secundário e o porto principal de referência.

Situações de ausência de informação em alguma coluna não significam que não haja correções a fazer, significam que as mesmas não puderam ser calculadas por falta de informação nos respetivos portos.

Caso para o porto secundário pretendido constar na tabela correções em altura e, simultaneamente, relações de amplitude sugere-se a utilização das correções em altura pois trata-se de informação mais detalhada e que permite diferenciar uma situação de preia-mar da de baixa-mar.

111.2 Cálculo das alturas das preia-mares e baixa-mares

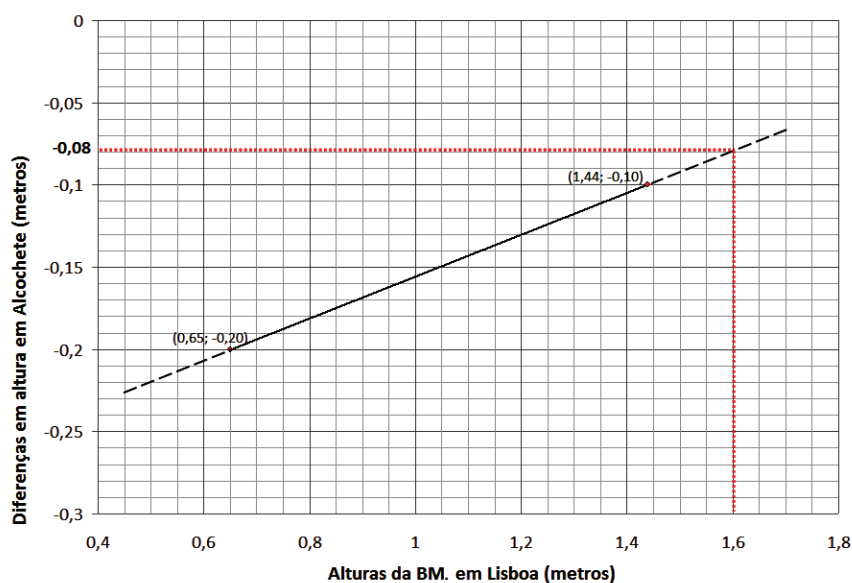
A tabela dos portos secundários fornece, para cada porto principal de referência, as alturas de água das preia-mares (PM.) e baixa-mares (BM.) previstas em situação de águas mortas médias e águas vivas médias. Admitindo que as correções em altura variam proporcionalmente à altura no porto principal de referência, as mesmas podem ser determinadas por interpolação linear. A página A-8 apresenta uma folha onde é possível fazer as correções por interpolação gráfica.

Segue-se um exemplo da aplicação das concordâncias para a determinação da altura de água da BM. num porto secundário.

Suponhamos que em Lisboa está prevista uma BM. de 1.6 m; qual a altura de água da BM. respetiva em Alcochete? De acordo com a tabela da página 3-3, tem-se:

| NOME DO PORTO | COORDENADAS GEOGRÁFICAS (WGS84) | | NÍVEL MÉDIO m | CORREÇÕES EM TEMPO | | | | CORREÇÕES EM ALTURA | | | | RELAÇÃO DE AMPLITUDE | |
|--------------------------------------|---------------------------------|----------------|------------------|--------------------|--------------|--------------|--------------|---------------------|---------------|---------------|---------------|----------------------|------|
| | Lat (N) | Long (W) | | PM. | | BM. | | PM. | | BM. | | AM. | AV. |
| | | | | AM. h min | AV. h min | AM. h min | AV. h min | AM. m | AV. m | AM. m | AV. m | | |
| LISBOA (Págs. 2-53 a 2-70) | 38 42.62 | 9 07.53 | 2.20 | | | | | (2.96) | (3.75) | (1.44) | (0.65) | | |
| Paço de Arcos | 38 41.5 | 9 17.6 | 2.08 | -0 23 | -0 31 | -0 13 | -0 20 | -0.24 | -0.33 | 0 | +0.05 | 0.85 | 0.88 |
| Pedrouços | 38 41.6 | 9 13.5 | 2.10 | -0 18 | -0 21 | -0 16 | -0 21 | -0.17 | -0.22 | 0 | 0 | 0.91 | 0.93 |
| Trafaria | 38 40.5 | 9 13.9 | 2.10 | -0 12 | -0 18 | -0 09 | -0 13 | -0.19 | -0.26 | 0 | 0 | 0.88 | 0.92 |
| Cacilhas | 38 41.3 | 9 08.9 | 2.20 | -0 11 | -0 11 | -0 14 | -0 17 | 0 | 0 | 0 | 0 | 0.97 | 1.00 |
| Arsenal do Alfeite | 38 40.3 | 9 08.9 | 2.20 | -0 06 | -0 06 | -0 05 | -0 05 | +0.02 | +0.02 | +0.02 | +0.02 | 1.01 | 0.99 |
| Montijo | 38 41.4 | 9 02.9 | 2.25 | -0 03 | -0 06 | -0 13 | -0 17 | +0.06 | +0.11 | 0 | -0.07 | 1.02 | 1.06 |
| Seixal | 38 39.0 | 9 04.6 | 2.25 | 0 | -0 05 | -0 11 | -0 15 | 0 | +0.07 | +0.06 | 0 | 0.98 | 1.02 |
| Cais da Matinha | 38 45.0 | 9 05.6 | 2.25 | +0 05 | +0 05 | -0 02 | +0 01 | +0.20 | +0.20 | +0.05 | 0 | - | - |
| Cabo Ruivo | 38 45.4 | 9 05.5 | 2.25 | 0 | 0 | -0 11 | -0 14 | +0.08 | +0.15 | 0 | -0.11 | 1.05 | 1.08 |
| Alcochete | 38 45.4 | 8 57.9 | 2.30 | +0 10 | +0 10 | 0 | 0 | +0.20 | +0.30 | -0.10 | -0.20 | 1.10 | 1.13 |
| Ponta da Erva | 38 50.0 | 8 58.0 | 2.35 | +0 09 | +0 11 | +0 02 | +0 11 | +0.25 | +0.34 | 0 | -0.13 | 1.14 | 1.15 |
| VALORSUL | 38 49.7 | 9 04.9 | 2.30 | +0 14 | +0 17 | +0 05 | +0 15 | 0 | +0.10 | -0.25 | -0.30 | - | - |
| Póvoa de Santa Iria | 38 51.4 | 9 03.7 | 2.30 | +0 10 | +0 17 | +0 02 | +0 13 | +0.20 | +0.18 | 0 | 0 | 1.15 | 1.07 |
| CIMPOR | 38 55.3 | 9 00.5 | 2.35 | +0 25 | +0 35 | +0 40 | +1 20 | +0.30 | +0.30 | 0 | +0.30 | - | - |
| Vila Franca de Xira | 38 56.6 | 8 59.6 | 2.40 | +0 35 | +0 40 | +0 50 | +1 30 | +0.25 | +0.30 | 0 | +0.40 | 1.14 | 1.02 |
| Carregado - terra | 39 00.5 | 8 56.5 | 2.40 | +1 07 | +1 18 | +1 30 | +2 05 | +0.28 | 0 | +0.15 | +0.48 | 1.08 | 0.84 |

Da leitura da tabela verifica-se que a uma BM. de 0.65 m corresponde uma correção em altura de -0.20 m; por sua vez, a uma BM. de 1.44 m corresponde uma correção em altura de -0.10 m. Traçando, uma reta que una os dois pontos definidos pela informação acabada de referir, constata-se que a uma BM. em Lisboa de 1.6 m corresponde, aproximadamente, uma correção em altura de -0.08 m.

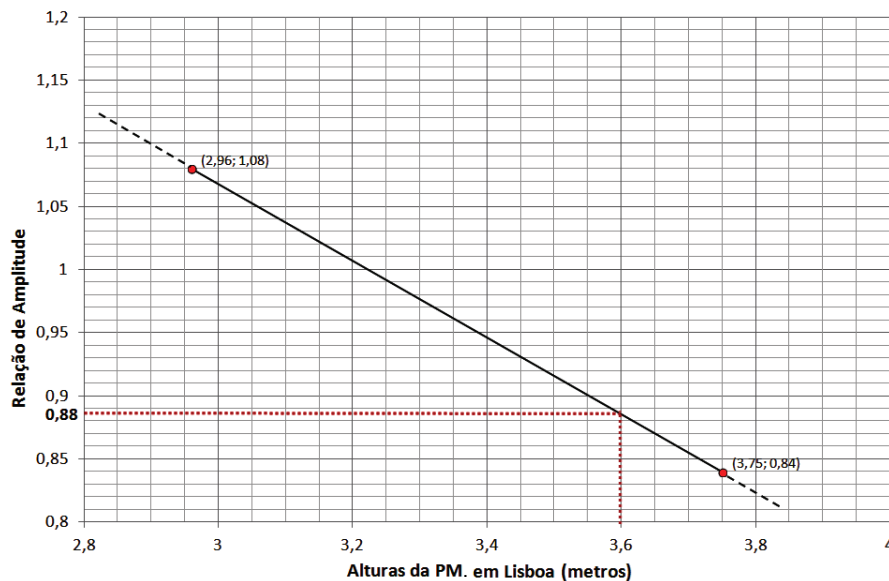


Aplicando a correção em altura, a BM. em Alcochete será de 1.6 m - 0.08 m ~1.52 m.

111.3 Cálculo das alturas das preia-mares e baixa-mares usando a relação de amplitudes

Em Lisboa está prevista uma PM. de 3.6 metros às 2h 57m. Qual o valor da PM. no Carregado?

No gráfico abaixo, a uma altura de 3.6 metros em Lisboa corresponde uma relação de amplitudes de 0.88.



Então, a elevação de maré em Lisboa relativamente ao nível médio (2,20 m) será:

$$3.60 \text{ m} - 2.20 \text{ m} = \mathbf{1.40 \text{ m}}$$

Aplicando a relação de amplitudes, a elevação de maré no Carregado será:

$$1.40 \text{ m} * 0.88 = 1.232 \text{ m} \sim \mathbf{1.23 \text{ m}}$$

Logo, a altura de maré da PM. no Carregado será:

$$2.40 \text{ m (nível médio no Carregado)} + 1.23 \text{ metros} = \mathbf{3.63 \text{ m}}$$

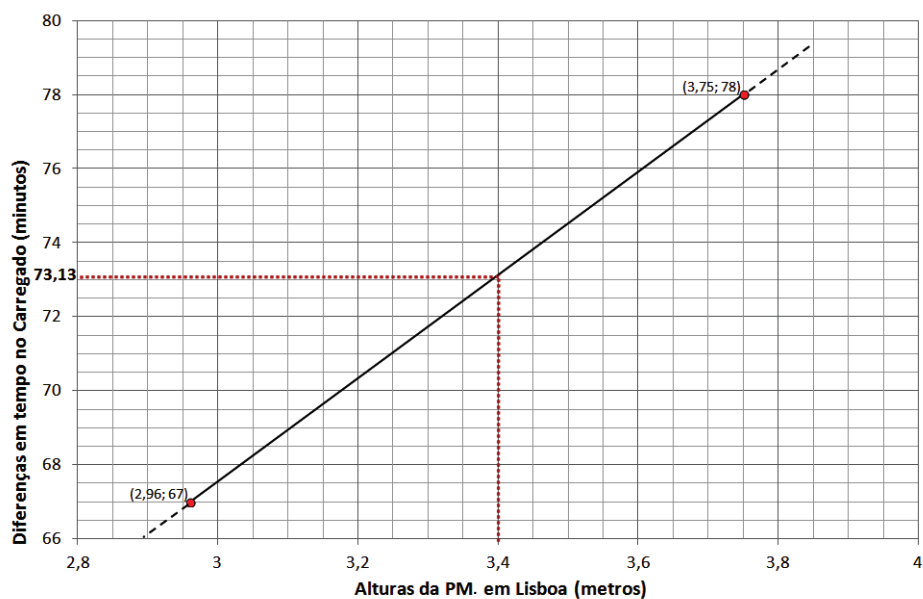
111.4 Cálculo das horas das preia-mares e baixa-mares

Admitindo que as correções em tempo também variam proporcionalmente à altura no porto principal de referência, as mesmas podem igualmente ser determinadas por interpolação linear.

Segue-se um exemplo da aplicação das concordâncias para a determinação da hora da PM. num porto secundário.

Suponhamos que em Lisboa está prevista uma PM. de 3.4 m às 10h 30m. Qual a hora da PM. no Carregado?

De acordo com a mesma página da tabela de concordâncias observa-se que a uma altura de 2.96 m de PM. em Lisboa corresponde uma correção em tempo de 1h 07m, ou seja 67 minutos; por sua vez, a uma altura de água de PM. em Lisboa de 3.75 m corresponde uma correção em tempo de 1h 18m, ou seja 78 minutos. Traçando a reta que une estes dois pontos é fácil verificar que a uma altura de 3.4 m corresponderá uma correção em tempo de 73.13 minutos.



Assim, se a PM. em Lisboa está prevista para as 10h 30m, a PM. no Carregado será aproximadamente às 10h 30m + 01h 13m = 11h 43m.

Alertam-se os utilizadores deste volume da Tabela de Marés, para o facto da aplicação das concordâncias se basear em aproximações, pelo que não garantem uma precisão idêntica à que se obtém a partir da fórmula harmónica.

112 — Alterações relativamente à edição anterior

Na edição da Tabela de Marés do Instituto Hidrográfico para 2025 foram introduzidas as seguintes alterações:

- Alterado o layout das páginas do capítulo 2.

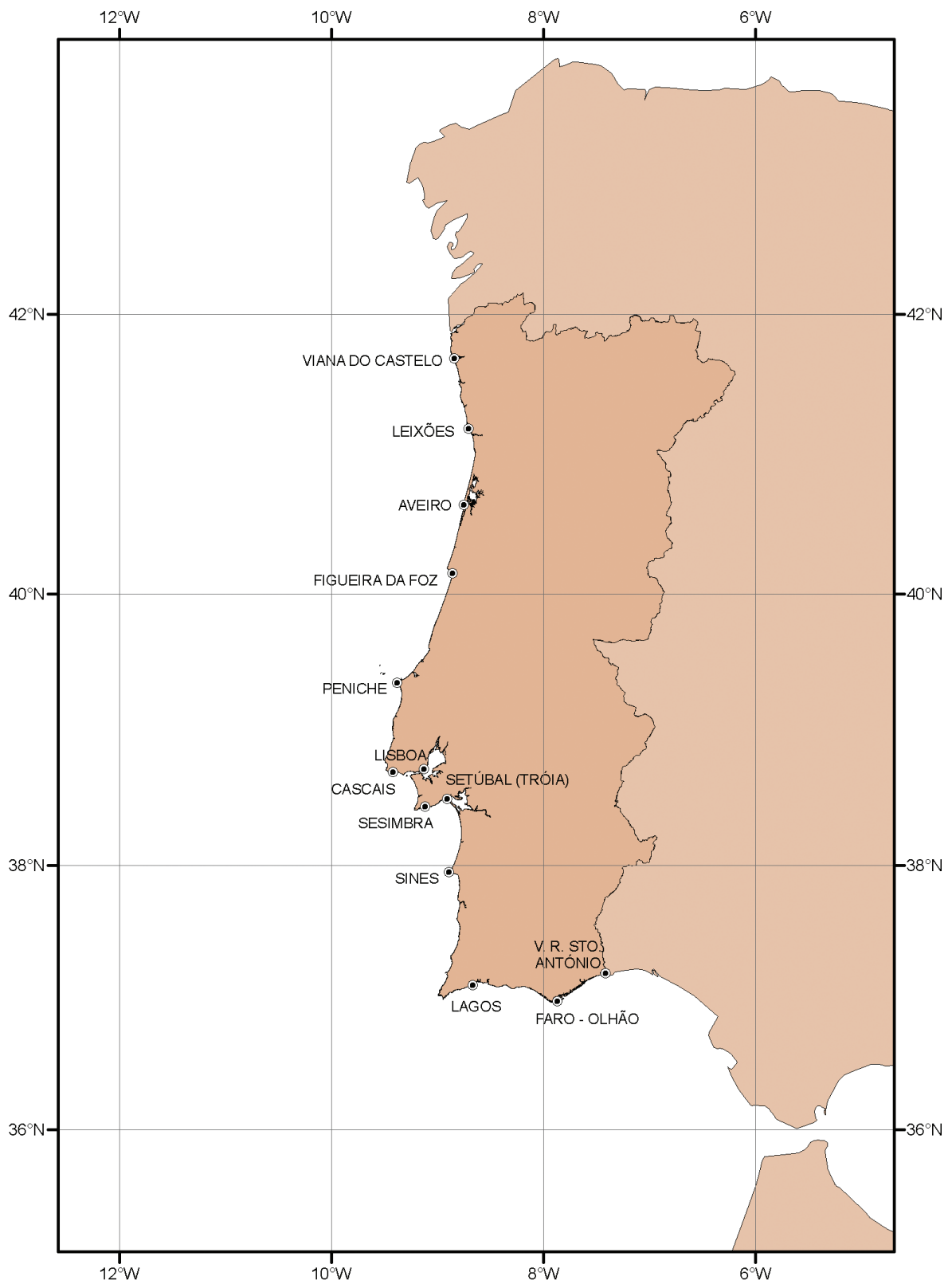
CAPÍTULO 2

**PREVISÃO DE MARÉS
PARA OS
PORTOS PRINCIPAIS**

201

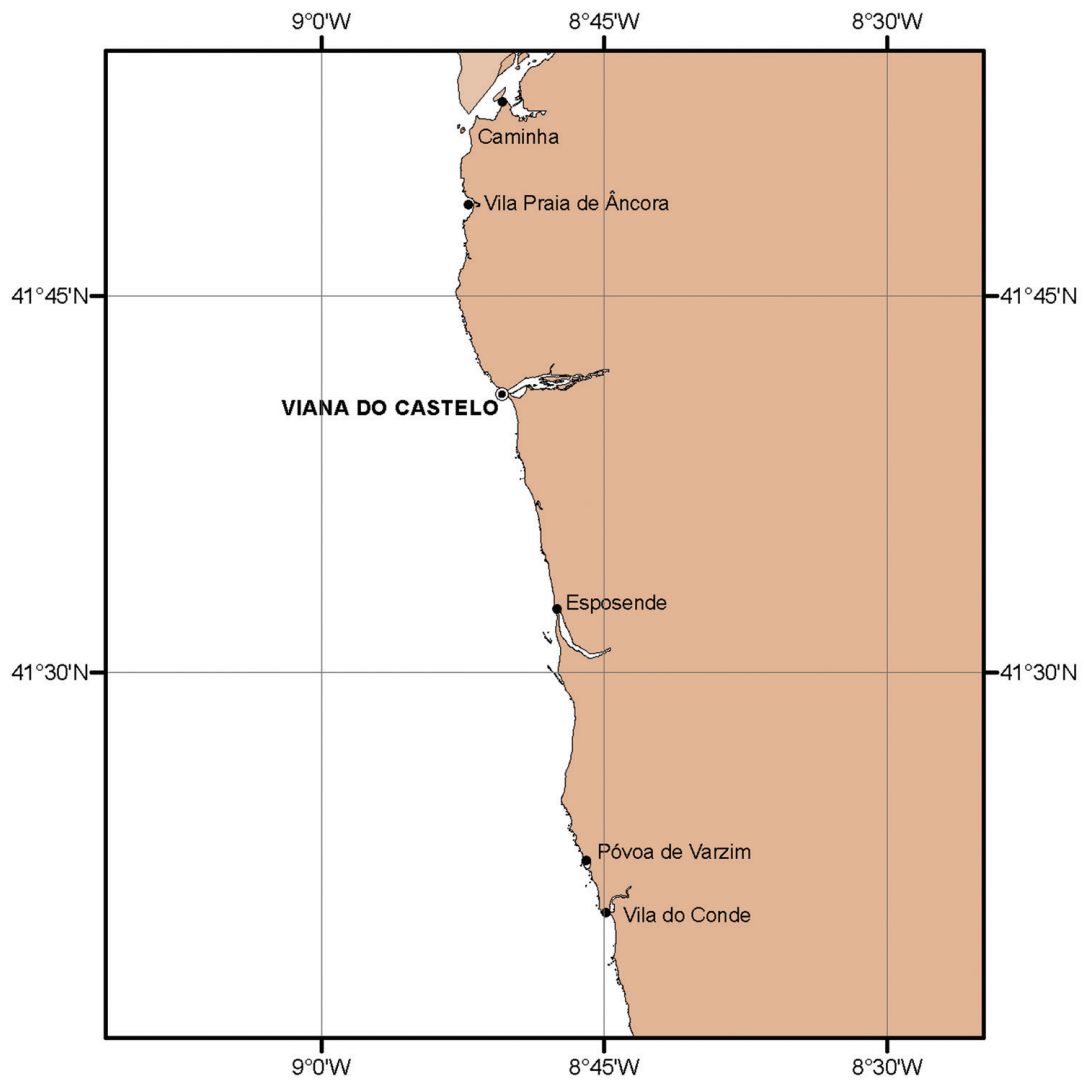
**PORTOS
DE
PORTUGAL CONTINENTAL**

PORTUGAL CONTINENTAL



201.1

VIANA DO CASTELO



PORTO DE VIANA DO CASTELO

NOTAS

1. ANÁLISE HARMÓNICA:

— Efetuada a partir de um ano de observações maregráficas, de 22 de outubro de 2003 a 20 de outubro de 2004.

2. LOCALIZAÇÃO DO MARÉGRAFO:

— No molhe central:

Latitude 41° 41,10' N; Longitude 8° 50,38' W – WGS84.

3. ALTURAS DE MARÉ:

— Referidas ao nível do zero hidrográfico.

— Nível médio: 2,00 m.

4. ZERO HIDROGRÁFICO:

— 2,00 m abaixo do nível médio adotado (Cascais, 1938).

— 5,080 m abaixo da marca de contacto (MC).

— 6,833 m abaixo da marca de nivelamento A251 (DGP), existente no molhe central (junto a um cabeço).

— 17,822 m abaixo da marca de nivelamento principal NP27 (IGP) existente no lado esquerdo da porta principal da estação de caminhos de ferro de Viana do Castelo.

Porto de Viana do Castelo

Latitude 41° 41.10' N Longitude 8° 50.38' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JANEIRO | | | | FEVEREIRO | | | | MARÇO | | | | | | | | | |
|-----------|-------|--------|-----------|-----------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-----|-----------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 03:29 | 3.3 | 17 | 04:54 | 3.4 | 01 | 04:38 | 3.6 | 17 | 05:29 | 3.2 | 01 | 03:35 | 3.8 | 17 | 04:25 | 3.3 |
| | 09:47 | 0.6 | | 11:11 | 0.7 | | 10:53 | 0.3 | | 11:39 | 0.8 | | 09:50 | 0.2 | | 10:33 | 0.7 |
| QUA | 15:53 | 3.1 | SEX | 17:16 | 3.0 | SÁB | 17:02 | 3.3 | SEG | 17:47 | 3.0 | SÁB | 15:59 | 3.6 | SEG | 16:41 | 3.2 |
| | 21:55 | 0.7 | | 23:13 | 0.8 | | 23:05 | 0.5 | | 23:49 | 0.9 | | 22:04 | 0.3 | | 22:45 | 0.7 |
| 02 | 04:10 | 3.4 | 18 | 05:31 | 3.2 | 02 | 05:21 | 3.6 | 18 | 06:02 | 3.0 | 02 | 04:16 | 3.8 | 18 | 04:55 | 3.1 |
| | 10:28 | 0.6 | | 11:46 | 0.8 | | 11:35 | 0.4 | | 12:11 | 1.0 | | 10:30 | 0.2 | | 11:02 | 0.8 |
| QUI | 16:36 | 3.1 | SÁB | 17:52 | 2.9 | DOM | 17:45 | 3.3 | TER | 18:22 | 2.8 | DOM | 16:38 | 3.6 | TER | 17:11 | 3.1 |
| | 22:37 | 0.7 | | 23:49 | 0.9 | | 23:49 | 0.6 | | | | | 22:44 | 0.3 | | 23:17 | 0.9 |
| 03 | 04:53 | 3.4 | 19 | 06:07 | 3.1 | 03 | 06:06 | 3.5 | 19 | 00:26 | 1.1 | 03 | 04:58 | 3.7 | 19 | 05:26 | 3.0 |
| | 11:11 | 0.6 | | 12:23 | 0.9 | | 12:20 | 0.6 | | 06:37 | 2.8 | | 11:10 | 0.3 | | 11:31 | 1.0 |
| SEX | 17:21 | 3.1 | DOM | 18:30 | 2.8 | SEG | 18:31 | 3.1 | QUA | 12:48 | 1.2 | SEG | 17:20 | 3.4 | QUA | 17:43 | 2.9 |
| | 23:21 | 0.8 | | | | | | | | 19:02 | 2.7 | | 23:27 | 0.4 | | 23:51 | 1.0 |
| 04 | 05:39 | 3.3 | 20 | 00:28 | 1.1 | 04 | 00:37 | 0.8 | 20 | 01:11 | 1.3 | 04 | 05:43 | 3.5 | 20 | 06:00 | 2.8 |
| | 11:57 | 0.7 | | 06:46 | 2.9 | | 06:54 | 3.2 | | 07:20 | 2.6 | | 11:53 | 0.5 | | 12:04 | 1.2 |
| SÁB | 18:08 | 3.0 | SEG | 13:02 | 1.1 | TER | 13:09 | 0.8 | QUI | 13:34 | 1.4 | TER | 18:04 | 3.3 | QUI | 18:20 | 2.8 |
| | | | | 19:13 | 2.7 | | 19:22 | 3.0 | ⌞ | 19:55 | 2.5 | | | | | | |
| 05 | 00:10 | 0.9 | 21 | 01:13 | 1.2 | 05 | 01:32 | 0.9 | 21 | 02:12 | 1.5 | 05 | 00:14 | 0.6 | 21 | 00:33 | 1.2 |
| | 06:28 | 3.3 | | 07:29 | 2.7 | | 07:50 | 3.0 | | 08:22 | 2.4 | | 06:31 | 3.2 | | 06:40 | 2.6 |
| DOM | 12:47 | 0.8 | TER | 13:49 | 1.3 | QUA | 14:07 | 1.0 | SEX | 14:43 | 1.5 | QUA | 12:40 | 0.8 | SEX | 12:45 | 1.3 |
| | 19:00 | 2.9 | ⌞ | 20:04 | 2.6 | ⌞ | 20:24 | 2.8 | | 21:14 | 2.4 | | 18:54 | 3.0 | | 19:08 | 2.6 |
| 06 | 01:03 | 1.0 | 22 | 02:09 | 1.4 | 06 | 02:41 | 1.1 | 22 | 03:43 | 1.5 | 06 | 01:10 | 0.9 | 22 | 01:30 | 1.4 |
| | 07:22 | 3.1 | | 08:23 | 2.6 | | 09:01 | 2.8 | | 10:03 | 2.3 | | 07:28 | 2.9 | | 07:38 | 2.4 |
| SEG | 13:43 | 0.9 | QUA | 14:48 | 1.4 | QUI | 15:20 | 1.2 | SÁB | 16:21 | 1.5 | QUI | 13:37 | 1.1 | SÁB | 13:48 | 1.5 |
| ⌞ | 19:57 | 2.8 | | 21:09 | 2.5 | | 21:44 | 2.7 | | 22:51 | 2.5 | ⌞ | 19:57 | 2.8 | ⌞ | 20:21 | 2.5 |
| 07 | 02:04 | 1.1 | 23 | 03:21 | 1.5 | 07 | 04:08 | 1.2 | 23 | 05:18 | 1.4 | 07 | 02:24 | 1.2 | 23 | 02:58 | 1.5 |
| | 08:22 | 3.0 | | 09:35 | 2.4 | | 10:31 | 2.6 | | 11:39 | 2.4 | | 08:46 | 2.6 | | 09:17 | 2.3 |
| TER | 14:45 | 1.0 | QUI | 16:01 | 1.4 | SEX | 16:46 | 1.3 | DOM | 17:43 | 1.4 | SEX | 14:57 | 1.4 | DOM | 15:32 | 1.6 |
| | 21:02 | 2.8 | | 22:27 | 2.5 | | 23:11 | 2.7 | | | | | 21:25 | 2.6 | | 22:03 | 2.5 |
| 08 | 03:13 | 1.1 | 24 | 04:41 | 1.5 | 08 | 05:38 | 1.1 | 24 | 00:01 | 2.7 | 08 | 04:05 | 1.3 | 24 | 04:41 | 1.4 |
| | 09:30 | 2.9 | | 10:59 | 2.4 | | 11:57 | 2.7 | | 06:25 | 1.2 | | 10:31 | 2.5 | | 11:06 | 2.4 |
| QUA | 15:54 | 1.0 | SEX | 17:14 | 1.4 | SÁB | 18:05 | 1.2 | SEG | 12:39 | 2.6 | SÁB | 16:39 | 1.4 | SEG | 17:07 | 1.4 |
| | 22:14 | 2.8 | | 23:37 | 2.6 | | | | | 18:40 | 1.2 | | 23:04 | 2.7 | | 23:25 | 2.7 |
| 09 | 04:27 | 1.1 | 25 | 05:53 | 1.4 | 09 | 00:24 | 2.9 | 25 | 00:52 | 2.9 | 09 | 05:41 | 1.2 | 25 | 05:52 | 1.2 |
| | 10:45 | 2.9 | | 12:07 | 2.5 | | 06:50 | 1.0 | | 07:14 | 1.0 | | 12:01 | 2.6 | | 12:10 | 2.6 |
| QUI | 17:03 | 1.0 | SÁB | 18:14 | 1.3 | DOM | 13:02 | 2.8 | TER | 13:23 | 2.9 | DOM | 18:01 | 1.3 | TER | 18:10 | 1.2 |
| | 23:24 | 2.9 | | | | | 19:05 | 1.1 | | 19:25 | 1.0 | | | | | | |
| 10 | 05:39 | 1.0 | 26 | 00:31 | 2.7 | 10 | 01:20 | 3.1 | 26 | 01:36 | 3.2 | 10 | 00:18 | 2.9 | 26 | 00:21 | 3.0 |
| | 11:56 | 2.9 | | 06:49 | 1.2 | | 07:45 | 0.8 | | 07:55 | 0.7 | | 06:47 | 1.0 | | 06:43 | 0.9 |
| SEX | 18:08 | 1.0 | DOM | 12:59 | 2.7 | SEG | 13:52 | 3.0 | QUA | 14:03 | 3.1 | SEG | 12:58 | 2.8 | QUA | 12:56 | 2.9 |
| | | | | 19:02 | 1.1 | | 19:52 | 0.9 | | 20:06 | 0.7 | | 18:56 | 1.1 | | 18:57 | 0.9 |
| 11 | 00:26 | 3.0 | 27 | 01:16 | 2.9 | 11 | 02:05 | 3.3 | 27 | 02:16 | 3.4 | 11 | 01:09 | 3.1 | 27 | 01:07 | 3.2 |
| | 06:45 | 0.9 | | 07:35 | 1.0 | | 08:28 | 0.7 | | 08:34 | 0.5 | | 07:34 | 0.8 | | 07:25 | 0.6 |
| SÁB | 12:58 | 3.0 | SEG | 13:42 | 2.8 | TER | 14:32 | 3.1 | QUI | 14:41 | 3.3 | TER | 13:39 | 2.9 | QUI | 13:36 | 3.2 |
| | 19:06 | 0.9 | | 19:45 | 1.0 | | 20:32 | 0.8 | | 20:45 | 0.5 | | 19:38 | 0.9 | | 19:39 | 0.6 |
| 12 | 01:21 | 3.2 | 28 | 01:56 | 3.1 | 12 | 02:45 | 3.4 | 28 | 02:55 | 3.7 | 12 | 01:49 | 3.2 | 28 | 01:49 | 3.5 |
| | 07:42 | 0.7 | | 08:15 | 0.8 | | 09:05 | 0.6 | | 09:12 | 0.3 | | 08:10 | 0.7 | | 08:05 | 0.4 |
| DOM | 13:52 | 3.1 | TER | 14:22 | 3.0 | QUA | 15:08 | 3.2 | SEX | 15:20 | 3.5 | QUA | 14:13 | 3.1 | SEX | 14:15 | 3.5 |
| | 19:56 | 0.8 | | 20:25 | 0.8 | ○ | 21:07 | 0.7 | ● | 21:24 | 0.3 | | 20:13 | 0.8 | | 20:20 | 0.4 |
| 13 | 02:10 | 3.3 | 29 | 02:36 | 3.3 | 13 | 03:21 | 3.5 | 29 | 02:55 | 3.7 | 13 | 02:24 | 3.3 | 29 | 02:29 | 3.7 |
| | 08:33 | 0.6 | | 08:55 | 0.6 | | 09:38 | 0.5 | | | | | 08:41 | 0.6 | | 08:45 | 0.2 |
| SEG | 14:40 | 3.1 | QUA | 15:01 | 3.2 | QUI | 15:41 | 3.2 | QUI | 14:44 | 3.2 | QUI | 14:44 | 3.2 | SÁB | 14:53 | 3.6 |
| ○ | 20:41 | 0.7 | ● | 21:04 | 0.6 | | 21:40 | 0.6 | | 20:45 | 0.7 | | 20:45 | 0.7 | ● | 21:00 | 0.2 |
| 14 | 02:55 | 3.4 | 30 | 03:16 | 3.5 | 14 | 03:54 | 3.5 | 30 | 02:56 | 3.4 | 14 | 02:56 | 3.4 | 30 | 03:11 | 3.8 |
| | 09:17 | 0.5 | | 09:34 | 0.4 | | 10:09 | 0.5 | | 09:10 | 0.6 | | 09:10 | 0.6 | | 09:24 | 0.1 |
| TER | 15:23 | 3.2 | QUI | 15:41 | 3.3 | SEX | 16:13 | 3.2 | SEX | 15:13 | 3.2 | SEX | 15:13 | 3.2 | DOM | 15:33 | 3.7 |
| | 21:22 | 0.7 | | 21:43 | 0.5 | | 22:12 | 0.6 | ○ | 21:15 | 0.6 | | 21:15 | 0.6 | | 21:41 | 0.2 |
| 15 | 03:37 | 3.5 | 31 | 03:56 | 3.6 | 15 | 04:26 | 3.4 | 31 | 03:26 | 3.4 | 15 | 03:26 | 3.4 | 31 | 03:53 | 3.8 |
| | 09:58 | 0.5 | | 10:13 | 0.4 | | 10:39 | 0.6 | | 09:38 | 0.6 | | 09:38 | 0.6 | | 10:04 | 0.2 |
| QUA | 16:03 | 3.1 | SEX | 16:21 | 3.4 | SÁB | 16:44 | 3.2 | SÁB | 15:42 | 3.3 | SÁB | 15:42 | 3.3 | SEG | 16:14 | 3.7 |
| | 22:00 | 0.7 | | 22:24 | 0.5 | | 22:44 | 0.7 | | 21:45 | 0.6 | | 21:45 | 0.6 | | 22:23 | 0.2 |
| 16 | 04:17 | 3.4 | | | | 16 | 04:57 | 3.3 | 16 | 03:56 | 3.4 | 16 | 03:56 | 3.4 | | | |
| | 10:36 | 0.6 | | | | | 11:09 | 0.7 | | 10:05 | 0.6 | | 10:05 | 0.6 | | | |
| QUI | 16:40 | 3.1 | | | | DOM | 17:15 | 3.1 | DOM | 16:11 | 3.2 | DOM | 16:11 | 3.2 | | | |
| | 22:37 | 0.7 | | | | | 23:15 | 0.8 | | 22:15 | 0.7 | | 22:15 | 0.7 | | | |

Porto de Viana do Castelo

Latitude 41° 41.10' N Longitude 8° 50.38' W

Horas do Fuso: 0 (TU)

Ano: 2025

| ABRIL | | | | | MAIO | | | | | JUNHO | | | | | | | |
|-----------|-------|--------|-----------|--------|------|-----------|-------|--------|-----------|--------|------|-----------|-------|--------|-----------|-------|-----|
| | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | |
| 01 | 04:37 | 3.7 | 17 | 04:59 | 2.9 | 01 | 05:10 | 3.3 | 17 | 05:24 | 2.7 | 01 | 00:39 | 0.8 | 17 | 00:45 | 0.9 |
| | 10:45 | 0.3 | | 11:01 | 1.0 | | 11:12 | 0.7 | | 11:23 | 1.1 | | 06:50 | 2.8 | | 06:56 | 2.8 |
| TER | 16:57 | 3.5 | QUI | 17:16 | 3.0 | QUI | 17:29 | 3.3 | SÁB | 17:44 | 3.0 | DOM | 12:44 | 1.1 | TER | 12:57 | 1.1 |
| | 23:08 | 0.4 | | 23:29 | 1.0 | | 23:50 | 0.7 | | | | | 19:08 | 3.0 | | 19:17 | 3.0 |
| 02 | 05:24 | 3.4 | 18 | 05:36 | 2.7 | 02 | 06:05 | 3.0 | 18 | 00:04 | 1.1 | 02 | 01:39 | 1.0 | 18 | 01:41 | 1.0 |
| | 11:29 | 0.6 | | 11:36 | 1.1 | | 12:03 | 1.0 | | 06:13 | 2.6 | | 07:49 | 2.6 | | 07:54 | 2.7 |
| QUA | 17:43 | 3.3 | SEX | 17:56 | 2.9 | SEX | 18:25 | 3.1 | DOM | 12:11 | 1.2 | SEG | 13:44 | 1.3 | QUA | 13:58 | 1.1 |
| | 23:59 | 0.6 | | | | | | | | 18:36 | 2.9 | | 20:08 | 2.9 | ⊔ | 20:16 | 3.0 |
| 03 | 06:15 | 3.1 | 19 | 00:13 | 1.2 | 03 | 00:53 | 0.9 | 19 | 01:01 | 1.1 | 03 | 02:42 | 1.1 | 19 | 02:41 | 1.0 |
| | 12:18 | 0.9 | | 06:20 | 2.6 | | 07:08 | 2.7 | | 07:12 | 2.6 | | 08:53 | 2.5 | | 08:58 | 2.7 |
| QUI | 18:35 | 3.1 | SÁB | 12:20 | 1.3 | SÁB | 13:04 | 1.2 | SEG | 13:13 | 1.3 | TER | 14:50 | 1.3 | QUI | 15:04 | 1.1 |
| | | | | 18:46 | 2.7 | | 19:30 | 2.9 | | 19:38 | 2.8 | ⊔ | 21:11 | 2.8 | | 21:19 | 3.0 |
| 04 | 00:59 | 0.9 | 20 | 01:11 | 1.3 | 04 | 02:08 | 1.1 | 20 | 02:08 | 1.2 | 04 | 03:44 | 1.2 | 20 | 03:44 | 1.0 |
| | 07:16 | 2.8 | | 07:21 | 2.4 | | 08:24 | 2.5 | | 08:24 | 2.5 | | 09:57 | 2.5 | | 10:04 | 2.8 |
| SEX | 13:18 | 1.2 | DOM | 13:24 | 1.4 | DOM | 14:20 | 1.4 | TER | 14:29 | 1.3 | QUA | 15:56 | 1.3 | SEX | 16:11 | 1.1 |
| | 19:42 | 2.8 | | 19:55 | 2.6 | ⊔ | 20:47 | 2.8 | ⊔ | 20:48 | 2.8 | | 22:14 | 2.7 | | 22:25 | 3.0 |
| 05 | 02:19 | 1.2 | 21 | 02:31 | 1.4 | 05 | 03:31 | 1.2 | 21 | 03:21 | 1.1 | 05 | 04:41 | 1.2 | 21 | 04:47 | 0.9 |
| | 08:39 | 2.5 | | 08:49 | 2.4 | | 09:48 | 2.5 | | 09:40 | 2.6 | | 10:56 | 2.6 | | 11:06 | 2.9 |
| SÁB | 14:43 | 1.4 | SEG | 14:57 | 1.5 | SEG | 15:44 | 1.4 | QUA | 15:44 | 1.3 | QUI | 16:57 | 1.3 | SÁB | 17:15 | 1.0 |
| ⊔ | 21:11 | 2.7 | ⊔ | 21:23 | 2.6 | ⊔ | 22:06 | 2.7 | ⊔ | 21:59 | 2.9 | ⊔ | 23:12 | 2.7 | ⊔ | 23:30 | 3.1 |
| 06 | 04:00 | 1.2 | 22 | 04:01 | 1.3 | 06 | 04:43 | 1.2 | 22 | 04:27 | 1.0 | 06 | 05:32 | 1.2 | 22 | 05:46 | 0.8 |
| | 10:23 | 2.5 | | 10:24 | 2.5 | | 10:59 | 2.5 | | 10:47 | 2.8 | | 11:47 | 2.7 | | 12:04 | 3.1 |
| DOM | 16:23 | 1.5 | TER | 16:27 | 1.4 | TER | 16:54 | 1.3 | QUI | 16:50 | 1.1 | SEX | 17:50 | 1.2 | DOM | 18:16 | 0.8 |
| | 22:45 | 2.7 | | 22:43 | 2.8 | | 23:11 | 2.8 | | 23:03 | 3.0 | | | | | | |
| 07 | 05:25 | 1.2 | 23 | 05:11 | 1.1 | 07 | 05:39 | 1.1 | 23 | 05:24 | 0.8 | 07 | 00:03 | 2.8 | 23 | 00:30 | 3.1 |
| | 11:42 | 2.6 | | 11:31 | 2.7 | | 11:51 | 2.7 | | 11:42 | 3.0 | | 06:17 | 1.1 | | 06:42 | 0.7 |
| SEG | 17:38 | 1.3 | QUA | 17:31 | 1.2 | QUA | 17:48 | 1.2 | SEX | 17:46 | 0.9 | SÁB | 12:31 | 2.8 | SEG | 12:59 | 3.2 |
| | 23:54 | 2.8 | | 23:43 | 3.0 | | | | | 23:58 | 3.2 | | 18:37 | 1.1 | | 19:14 | 0.7 |
| 08 | 06:23 | 1.0 | 24 | 06:04 | 0.8 | 08 | 00:02 | 2.9 | 24 | 06:16 | 0.7 | 08 | 00:47 | 2.8 | 24 | 01:27 | 3.2 |
| | 12:33 | 2.7 | | 12:21 | 3.0 | | 06:22 | 1.0 | | 12:31 | 3.2 | | 06:58 | 1.0 | | 07:36 | 0.7 |
| TER | 18:30 | 1.2 | QUI | 18:23 | 0.9 | QUI | 12:32 | 2.8 | SÁB | 18:38 | 0.7 | DOM | 13:11 | 2.9 | TER | 13:50 | 3.4 |
| | | | | | | | 18:33 | 1.1 | | | | | 19:20 | 1.1 | | 20:09 | 0.6 |
| 09 | 00:42 | 3.0 | 25 | 00:33 | 3.3 | 09 | 00:44 | 3.0 | 25 | 00:50 | 3.4 | 09 | 01:28 | 2.9 | 25 | 02:20 | 3.3 |
| | 07:04 | 0.9 | | 06:51 | 0.6 | | 06:59 | 0.9 | | 07:04 | 0.5 | | 07:35 | 1.0 | | 08:26 | 0.6 |
| QUA | 13:11 | 2.9 | SEX | 13:04 | 3.2 | SEX | 13:08 | 3.0 | DOM | 13:18 | 3.4 | SEG | 13:47 | 3.0 | QUA | 14:41 | 3.5 |
| | 19:10 | 1.0 | | 19:08 | 0.6 | | 19:12 | 1.0 | | 19:28 | 0.5 | | 19:59 | 1.0 | ● | 21:02 | 0.5 |
| 10 | 01:21 | 3.1 | 26 | 01:18 | 3.5 | 10 | 01:21 | 3.0 | 26 | 01:40 | 3.5 | 10 | 02:05 | 2.9 | 26 | 03:12 | 3.3 |
| | 07:38 | 0.8 | | 07:34 | 0.4 | | 07:33 | 0.8 | | 07:52 | 0.4 | | 08:11 | 0.9 | | 09:15 | 0.6 |
| QUI | 13:43 | 3.0 | SÁB | 13:45 | 3.5 | SÁB | 13:41 | 3.1 | SEG | 14:04 | 3.5 | TER | 14:22 | 3.1 | QUI | 15:30 | 3.5 |
| | 19:45 | 0.9 | | 19:52 | 0.4 | | 19:48 | 0.9 | | 20:18 | 0.4 | | 20:36 | 0.9 | | 21:52 | 0.5 |
| 11 | 01:55 | 3.2 | 27 | 02:02 | 3.7 | 11 | 01:55 | 3.1 | 27 | 02:29 | 3.5 | 11 | 02:41 | 2.9 | 27 | 04:01 | 3.2 |
| | 08:08 | 0.7 | | 08:16 | 0.2 | | 08:05 | 0.8 | | 08:38 | 0.4 | | 08:45 | 0.9 | | 10:01 | 0.7 |
| SEX | 14:13 | 3.2 | DOM | 14:26 | 3.6 | DOM | 14:14 | 3.1 | TER | 14:51 | 3.6 | QUA | 14:56 | 3.1 | SEX | 16:18 | 3.5 |
| | 20:17 | 0.7 | ● | 20:36 | 0.3 | ⊔ | 20:22 | 0.8 | ● | 21:07 | 0.4 | ○ | 21:12 | 0.9 | ⊔ | 22:40 | 0.5 |
| 12 | 02:26 | 3.3 | 28 | 02:47 | 3.7 | 12 | 02:28 | 3.1 | 28 | 03:19 | 3.4 | 12 | 03:17 | 2.9 | 28 | 04:48 | 3.1 |
| | 08:37 | 0.6 | | 08:58 | 0.2 | | 08:36 | 0.8 | | 09:25 | 0.5 | | 09:19 | 0.9 | | 10:45 | 0.7 |
| SÁB | 14:43 | 3.2 | SEG | 15:09 | 3.7 | SEG | 14:45 | 3.2 | QUA | 15:38 | 3.5 | QUI | 15:32 | 3.2 | SÁB | 17:04 | 3.4 |
| | 20:48 | 0.7 | | 21:21 | 0.2 | ○ | 20:55 | 0.8 | | 21:58 | 0.4 | | 21:49 | 0.8 | | 23:26 | 0.6 |
| 13 | 02:56 | 3.3 | 29 | 03:33 | 3.7 | 13 | 03:01 | 3.1 | 29 | 04:10 | 3.3 | 13 | 03:54 | 2.9 | 29 | 05:34 | 3.0 |
| | 09:06 | 0.6 | | 09:41 | 0.3 | | 09:06 | 0.8 | | 10:12 | 0.6 | | 09:55 | 0.9 | | 11:29 | 0.8 |
| DOM | 15:12 | 3.3 | TER | 15:53 | 3.6 | TER | 15:16 | 3.2 | QUI | 16:28 | 3.5 | SEX | 16:10 | 3.2 | DOM | 17:50 | 3.3 |
| ○ | 21:18 | 0.7 | | 22:07 | 0.3 | | 21:28 | 0.8 | | 22:50 | 0.5 | | 22:28 | 0.8 | | | |
| 14 | 03:26 | 3.2 | 30 | 04:20 | 3.5 | 14 | 03:33 | 3.0 | 30 | 05:01 | 3.1 | 14 | 04:34 | 2.9 | 30 | 00:11 | 0.8 |
| | 09:34 | 0.7 | | 10:26 | 0.5 | | 09:37 | 0.8 | | 11:00 | 0.8 | | 10:33 | 0.9 | | 06:19 | 2.9 |
| SEG | 15:42 | 3.2 | QUA | 16:39 | 3.5 | QUA | 15:48 | 3.2 | SEX | 17:19 | 3.3 | SÁB | 16:51 | 3.2 | SEG | 12:13 | 1.0 |
| | 21:49 | 0.7 | | 22:56 | 0.4 | | 22:01 | 0.8 | | 23:43 | 0.7 | | 23:09 | 0.8 | | 18:35 | 3.1 |
| 15 | 03:56 | 3.2 | | | | 15 | 04:07 | 2.9 | 31 | 05:55 | 2.9 | 15 | 05:17 | 2.9 | | | |
| | 10:02 | 0.7 | | | | | 10:08 | 0.9 | | 11:50 | 1.0 | | 11:15 | 1.0 | | | |
| TER | 16:11 | 3.2 | | | | QUI | 16:23 | 3.1 | SÁB | 18:12 | 3.2 | DOM | 17:35 | 3.1 | | | |
| | 22:20 | 0.8 | | | | ⊔ | 22:38 | 0.9 | | | | ⊔ | 23:55 | 0.9 | | | |
| 16 | 04:27 | 3.0 | | | | 16 | 04:43 | 2.8 | | | | 16 | 06:04 | 2.8 | | | |
| | 10:31 | 0.8 | | | | | 10:43 | 1.0 | | | | | 12:03 | 1.0 | | | |
| QUA | 16:42 | 3.1 | | | | SEX | 17:01 | 3.1 | | | | SEG | 18:24 | 3.1 | | | |
| | 22:53 | 0.9 | | | | | 23:18 | 1.0 | | | | | | | | | |

Porto de Viana do Castelo

Latitude 41° 41.10' N Longitude 8° 50.38' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JULHO | | | | AGOSTO | | | | SETEMBRO | | | | | | | | | |
|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 00:57 07:04 TER 13:00 19:21 | 0.9 2.7 1.1 3.0 | 17 | 01:09 07:22 QUI 13:27 19:44 | 0.8 2.9 1.0 3.1 | 01 | 01:31 07:44 SEX 13:50 20:03 | 1.2 2.6 1.3 2.6 | 17 | 02:38 08:59 DOM 15:23 21:44 | 1.2 2.7 1.2 2.7 | 01 | 02:28 09:00 SEG 15:31 21:50 | 1.5 2.4 1.5 2.3 | 17 | 05:27 11:46 QUA 18:16 | 1.3 2.9 1.0 |
| 02 | 01:44 07:53 QUA 13:52 20:11 | 1.1 2.6 1.2 2.8 | 18 | 02:04 08:19 SEX 14:29 20:45 | 0.9 2.8 1.1 2.9 | 02 | 02:25 08:44 SÁB 14:56 21:10 | 1.3 2.5 1.4 2.4 | 18 | 04:02 10:28 SEG 16:56 23:17 | 1.3 2.7 1.2 2.7 | 02 | 04:08 10:39 TER 17:08 23:28 | 1.6 2.5 1.5 2.4 | 18 | 00:28 06:27 QUI 12:41 19:06 | 2.8 1.1 3.1 0.8 |
| 03 | 02:37 08:49 QUI 14:52 21:09 | 1.2 2.6 1.3 2.7 | 19 | 03:07 09:26 SÁB 15:40 21:57 | 1.0 2.8 1.1 2.9 | 03 | 03:35 10:02 DOM 16:18 22:36 | 1.4 2.5 1.5 2.4 | 19 | 05:26 11:48 TER 18:15 | 1.2 2.9 1.0 | 03 | 05:30 11:49 QUA 18:13 | 1.4 2.6 1.3 | 19 | 01:13 07:12 SEX 13:25 19:46 | 2.9 0.9 3.3 0.7 |
| 04 | 03:35 09:53 SEX 15:58 22:15 | 1.3 2.5 1.4 2.6 | 20 | 04:17 10:39 DOM 16:56 23:14 | 1.1 2.8 1.1 2.8 | 04 | 04:52 11:18 SEG 17:36 23:52 | 1.4 2.5 1.4 2.4 | 20 | 00:30 06:34 QUA 12:50 19:16 | 2.8 1.1 3.1 0.8 | 04 | 00:27 06:25 QUI 12:39 19:00 | 2.6 1.3 2.9 1.0 | 20 | 01:49 07:49 SÁB 14:02 20:19 | 3.1 0.7 3.4 0.6 |
| 05 | 04:36 10:57 SÁB 17:05 23:20 | 1.3 2.6 1.4 2.6 | 21 | 05:28 11:50 SEG 18:08 | 1.0 2.9 1.0 | 05 | 05:58 12:17 TER 18:36 | 1.4 2.7 1.3 | 21 | 01:25 07:26 QUI 13:40 20:03 | 3.0 0.9 3.3 0.6 | 05 | 01:09 07:08 SEX 13:19 19:38 | 2.8 1.0 3.1 0.8 | 21 | 02:22 08:23 DOM 14:35 20:50 | 3.2 0.6 3.4 0.5 |
| 06 | 05:34 11:54 DOM 18:05 | 1.3 2.7 1.3 | 22 | 00:24 06:34 TER 12:51 19:13 | 2.9 1.0 3.1 0.8 | 06 | 00:47 06:49 QUA 13:04 19:23 | 2.6 1.2 2.9 1.1 | 22 | 02:09 08:09 SEX 14:22 20:43 | 3.1 0.7 3.4 0.5 | 06 | 01:45 07:47 SÁB 13:57 20:14 | 3.0 0.8 3.4 0.6 | 22 | 02:53 08:55 SEG 15:07 21:19 | 3.3 0.6 3.4 0.5 |
| 07 | 00:17 06:26 SEG 12:43 18:56 | 2.6 1.2 2.8 1.2 | 23 | 01:25 07:30 QUA 13:45 20:09 | 3.0 0.8 3.3 0.6 | 07 | 01:31 07:32 QUI 13:44 20:03 | 2.7 1.1 3.1 0.9 | 23 | 02:47 08:47 SÁB 15:00 21:19 | 3.2 0.6 3.5 0.5 | 07 | 02:21 08:24 DOM 14:34 20:50 | 3.2 0.6 3.6 0.4 | 23 | 03:23 09:26 TER 15:38 21:48 | 3.3 0.6 3.4 0.6 |
| 08 | 01:05 07:10 TER 13:25 19:41 | 2.7 1.1 2.9 1.1 | 24 | 02:17 08:20 QUI 14:34 20:57 | 3.1 0.7 3.4 0.5 | 08 | 02:09 08:10 SEX 14:22 20:40 | 2.9 0.9 3.2 0.7 | 24 | 03:22 09:22 DOM 15:36 21:52 | 3.2 0.6 3.5 0.5 | 08 | 02:56 09:01 SEG 15:12 21:26 | 3.4 0.4 3.7 0.3 | 24 | 03:53 09:57 QUA 16:08 22:16 | 3.3 0.6 3.3 0.7 |
| 09 | 01:47 07:51 QUA 14:03 20:21 | 2.8 1.0 3.0 0.9 | 25 | 03:04 09:04 SEX 15:19 21:41 | 3.2 0.7 3.5 0.5 | 09 | 02:46 08:48 SÁB 14:59 21:17 | 3.1 0.7 3.4 0.5 | 25 | 03:55 09:55 SEG 16:10 22:23 | 3.3 0.6 3.5 0.6 | 09 | 03:33 09:38 TER 15:50 22:04 | 3.5 0.3 3.7 0.2 | 25 | 04:23 10:28 QUI 16:38 22:45 | 3.2 0.7 3.1 0.8 |
| 10 | 02:26 08:28 QUI 14:40 20:59 | 2.9 0.9 3.2 0.8 | 26 | 03:46 09:45 SÁB 16:01 22:21 | 3.2 0.6 3.5 0.5 | 10 | 03:22 09:25 DOM 15:37 21:54 | 3.2 0.6 3.5 0.4 | 26 | 04:27 10:28 TER 16:43 22:54 | 3.2 0.6 3.3 0.7 | 10 | 04:11 10:17 QUA 16:31 22:42 | 3.5 0.3 3.7 0.3 | 26 | 04:54 11:00 SEX 17:10 23:15 | 3.1 0.9 2.9 1.0 |
| 11 | 03:03 09:05 SEX 15:18 21:37 | 2.9 0.9 3.3 0.7 | 27 | 04:25 10:23 DOM 16:40 22:58 | 3.2 0.6 3.5 0.6 | 11 | 04:00 10:03 SEG 16:16 22:31 | 3.3 0.5 3.6 0.4 | 27 | 05:00 11:01 QUA 17:15 23:24 | 3.1 0.8 3.2 0.8 | 11 | 04:52 10:59 QUI 17:14 23:24 | 3.5 0.4 3.5 0.5 | 27 | 05:27 11:35 SÁB 17:44 23:48 | 2.9 1.1 2.7 1.2 |
| 12 | 03:41 09:43 SÁB 15:57 22:15 | 3.0 0.8 3.3 0.7 | 28 | 05:03 11:00 SEG 17:18 23:34 | 3.1 0.7 3.3 0.7 | 12 | 04:39 10:42 TER 16:56 23:10 | 3.3 0.5 3.6 0.4 | 28 | 05:32 11:35 QUI 17:48 23:57 | 3.0 0.9 3.0 1.0 | 12 | 05:35 11:44 SEX 18:01 | 3.3 0.6 3.3 | 28 | 06:05 12:17 DOM 18:25 | 2.7 1.3 2.5 |
| 13 | 04:21 10:22 DOM 16:37 22:54 | 3.1 0.8 3.4 0.6 | 29 | 05:40 11:37 TER 17:55 | 3.0 0.8 3.2 | 13 | 05:19 11:23 QUA 17:39 23:52 | 3.3 0.6 3.5 0.6 | 29 | 06:08 12:12 SEX 18:24 | 2.8 1.1 2.8 | 13 | 00:10 06:24 SÁB 12:38 18:56 | 0.8 3.1 0.8 3.0 | 29 | 00:29 06:54 SEG 13:15 19:24 | 1.4 2.6 1.4 2.3 |
| 14 | 05:02 11:03 SEG 17:19 23:36 | 3.1 0.8 3.4 0.6 | 30 | 00:10 06:17 QUA 12:16 18:33 | 0.9 2.9 1.0 3.0 | 14 | 06:03 12:08 QUI 18:25 | 3.2 0.7 3.3 | 30 | 00:33 06:48 SÁB 12:56 19:06 | 1.2 2.7 1.3 2.6 | 14 | 01:05 07:24 DOM 13:48 20:08 | 1.1 2.9 1.1 2.7 | 30 | 01:34 08:09 TER 14:48 21:06 | 1.5 2.5 1.5 2.2 |
| 15 | 05:45 11:46 TER 18:04 | 3.0 0.8 3.3 | 31 | 00:48 06:57 QUI 12:58 19:14 | 1.0 2.8 1.2 2.8 | 15 | 00:38 06:50 SEX 12:59 19:16 | 0.7 3.0 0.9 3.1 | 31 | 01:19 07:41 DOM 13:58 20:07 | 1.4 2.5 1.5 2.4 | 15 | 02:20 08:46 SEG 15:24 21:48 | 1.3 2.7 1.2 2.5 | | | |
| 16 | 00:20 06:31 QUA 12:34 18:51 | 0.7 3.0 0.9 3.2 | | | | 16 | 01:31 07:47 SÁB 14:02 20:20 | 1.0 2.9 1.1 2.8 | | | | 16 | 04:00 10:26 TER 17:04 23:24 | 1.4 2.7 1.2 2.6 | | | |

Porto de Viana do Castelo

Latitude 41° 41.10' N Longitude 8° 50.38' W

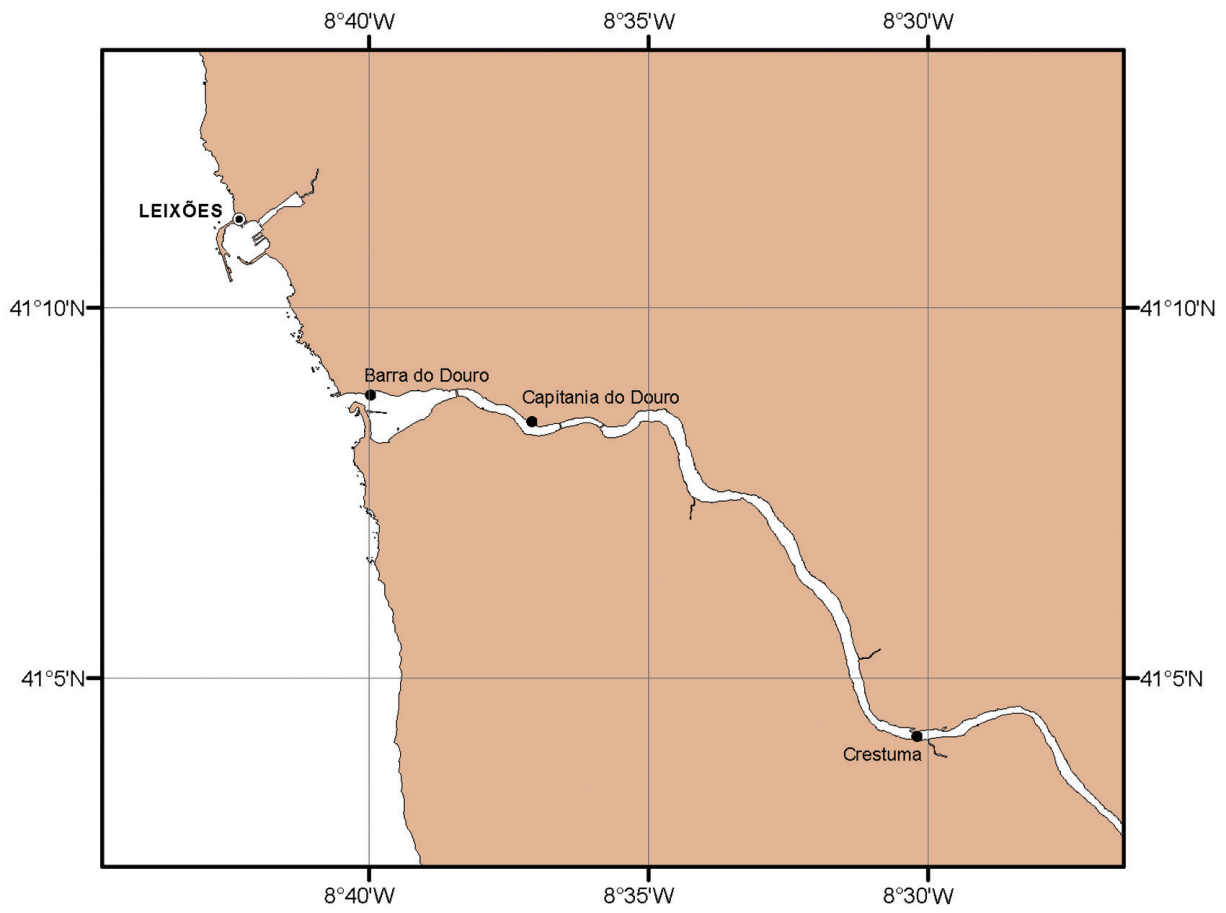
Horas do Fuso: 0 (TU)

Ano: 2025

| OUTUBRO | | | | | NOVEMBRO | | | | | DEZEMBRO | | | | |
|-----------|-------|--------|-----------|--------|----------|-----------|-------|--------|-----------|----------|------|-----------|-------|--------|
| | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura |
| 01 | 03:22 | 1.6 | 17 | 00:07 | 2.8 | 01 | 05:11 | 1.2 | 17 | 00:50 | 3.0 | 01 | 05:20 | 1.0 |
| | 09:53 | 2.5 | | 06:04 | 1.1 | | 11:23 | 2.9 | | 06:54 | 0.9 | | 11:33 | 3.1 |
| | 16:32 | 1.4 | SEX | 12:19 | 3.1 | SÁB | 17:44 | 0.9 | SEG | 13:05 | 3.0 | SEG | 17:50 | 0.8 |
| | 22:55 | 2.4 | | 18:41 | 0.9 | | 23:59 | 2.9 | | 19:16 | 0.9 | | 19:25 | 1.0 |
| 02 | 04:55 | 1.5 | 18 | 00:47 | 2.9 | 02 | 06:00 | 1.0 | 18 | 01:24 | 3.1 | 02 | 00:06 | 3.1 |
| | 11:12 | 2.7 | | 06:47 | 0.9 | | 12:11 | 3.2 | | 07:31 | 0.9 | | 06:12 | 0.8 |
| | 17:39 | 1.2 | SÁB | 12:59 | 3.2 | DOM | 18:28 | 0.7 | TER | 13:40 | 3.1 | TER | 12:24 | 3.3 |
| | 23:55 | 2.6 | | 19:17 | 0.8 | | | | | 19:49 | 0.8 | | 18:38 | 0.6 |
| 03 | 05:53 | 1.2 | 19 | 01:21 | 3.1 | 03 | 00:40 | 3.2 | 19 | 01:57 | 3.1 | 03 | 00:52 | 3.3 |
| | 12:05 | 2.9 | | 07:23 | 0.8 | | 06:44 | 0.7 | | 08:06 | 0.8 | | 07:02 | 0.6 |
| | 18:26 | 1.0 | DOM | 13:35 | 3.3 | SEG | 12:54 | 3.4 | QUA | 14:13 | 3.1 | QUA | 13:14 | 3.4 |
| | | | | 19:49 | 0.7 | | 19:09 | 0.5 | | 20:20 | 0.8 | | 19:26 | 0.5 |
| 04 | 00:37 | 2.9 | 20 | 01:53 | 3.2 | 04 | 01:20 | 3.4 | 20 | 02:29 | 3.2 | 04 | 01:38 | 3.5 |
| | 06:38 | 1.0 | | 07:56 | 0.7 | | 07:26 | 0.5 | | 08:39 | 0.8 | | 07:51 | 0.4 |
| | 12:48 | 3.2 | SEG | 14:07 | 3.3 | TER | 13:37 | 3.6 | QUI | 14:46 | 3.1 | QUI | 14:03 | 3.5 |
| | 19:05 | 0.7 | | 20:18 | 0.6 | | 19:50 | 0.3 | ● | 20:51 | 0.8 | ○ | 20:13 | 0.4 |
| 05 | 01:15 | 3.1 | 21 | 02:23 | 3.2 | 05 | 02:00 | 3.6 | 21 | 03:01 | 3.2 | 05 | 02:25 | 3.6 |
| | 07:17 | 0.7 | | 08:28 | 0.7 | | 08:09 | 0.3 | | 09:12 | 0.8 | | 08:41 | 0.3 |
| | 13:27 | 3.4 | TER | 14:38 | 3.3 | QUA | 14:20 | 3.7 | SEX | 15:18 | 3.0 | SEX | 14:53 | 3.5 |
| | 19:42 | 0.5 | ● | 20:47 | 0.6 | ○ | 20:31 | 0.2 | | 21:22 | 0.8 | | 20:59 | 0.4 |
| 06 | 01:51 | 3.4 | 22 | 02:53 | 3.3 | 06 | 02:41 | 3.6 | 22 | 03:33 | 3.2 | 06 | 03:12 | 3.6 |
| | 07:55 | 0.5 | | 09:00 | 0.7 | | 08:53 | 0.2 | | 09:46 | 0.8 | | 09:31 | 0.3 |
| | 14:05 | 3.6 | QUA | 15:08 | 3.2 | QUI | 15:05 | 3.7 | SÁB | 15:51 | 2.9 | SÁB | 15:43 | 3.4 |
| | 20:19 | 0.3 | | 21:16 | 0.7 | | 21:14 | 0.3 | | 21:53 | 0.9 | | 21:47 | 0.5 |
| 07 | 02:27 | 3.5 | 23 | 03:23 | 3.2 | 07 | 03:25 | 3.6 | 23 | 04:06 | 3.1 | 07 | 04:02 | 3.6 |
| | 08:34 | 0.3 | | 09:31 | 0.7 | | 09:39 | 0.3 | | 10:21 | 0.9 | | 10:23 | 0.4 |
| | 14:44 | 3.8 | QUI | 15:39 | 3.2 | SEX | 15:51 | 3.6 | DOM | 16:26 | 2.8 | DOM | 16:35 | 3.3 |
| | 20:57 | 0.2 | | 21:45 | 0.7 | | 21:58 | 0.4 | | 22:26 | 1.0 | | 22:35 | 0.7 |
| 08 | 03:05 | 3.6 | 24 | 03:53 | 3.2 | 08 | 04:11 | 3.6 | 24 | 04:43 | 3.0 | 08 | 04:53 | 3.5 |
| | 09:13 | 0.2 | | 10:02 | 0.8 | | 10:28 | 0.4 | | 10:59 | 1.0 | | 11:16 | 0.5 |
| | 15:25 | 3.8 | SEX | 16:09 | 3.0 | SÁB | 16:42 | 3.4 | SEG | 17:05 | 2.7 | SEG | 17:28 | 3.1 |
| | 21:36 | 0.2 | | 22:14 | 0.9 | | 22:45 | 0.6 | | 23:04 | 1.1 | | 23:25 | 0.8 |
| 09 | 03:45 | 3.6 | 25 | 04:25 | 3.1 | 09 | 05:01 | 3.4 | 25 | 05:24 | 2.9 | 09 | 05:46 | 3.3 |
| | 09:55 | 0.2 | | 10:35 | 0.9 | | 11:21 | 0.6 | | 11:43 | 1.1 | | 12:11 | 0.7 |
| | 16:08 | 3.7 | SÁB | 16:42 | 2.9 | DOM | 17:36 | 3.1 | TER | 17:50 | 2.6 | TER | 18:23 | 2.9 |
| | 22:17 | 0.3 | | 22:44 | 1.0 | | 23:36 | 0.9 | | 23:48 | 1.2 | | 18:25 | 2.8 |
| 10 | 04:28 | 3.5 | 26 | 04:59 | 3.0 | 10 | 05:57 | 3.2 | 26 | 06:13 | 2.8 | 10 | 00:18 | 1.0 |
| | 10:39 | 0.4 | | 11:11 | 1.0 | | 12:23 | 0.8 | | 12:35 | 1.2 | | 06:42 | 3.1 |
| | 16:54 | 3.5 | DOM | 17:18 | 2.7 | SEG | 18:38 | 2.8 | QUA | 18:45 | 2.5 | QUA | 13:10 | 0.9 |
| | 23:01 | 0.5 | | 23:18 | 1.2 | | | | | | | | 19:21 | 2.7 |
| 11 | 05:14 | 3.3 | 27 | 05:38 | 2.8 | 11 | 00:36 | 1.1 | 27 | 00:45 | 1.3 | 11 | 01:17 | 1.2 |
| | 11:29 | 0.6 | | 11:54 | 1.2 | | 07:01 | 3.0 | | 07:11 | 2.8 | | 07:41 | 3.0 |
| | 17:45 | 3.2 | SEG | 18:01 | 2.5 | TER | 13:36 | 1.0 | QUI | 13:39 | 1.2 | QUI | 14:14 | 1.1 |
| | 23:49 | 0.8 | | | | | 19:52 | 2.6 | | 19:53 | 2.5 | ((| 20:24 | 2.6 |
| 12 | 06:06 | 3.1 | 28 | 00:01 | 1.3 | 12 | 01:51 | 1.3 | 28 | 01:57 | 1.4 | 12 | 02:23 | 1.3 |
| | 12:27 | 0.9 | | 06:28 | 2.7 | | 08:18 | 2.8 | | 08:19 | 2.7 | | 08:45 | 2.8 |
| | 18:45 | 2.9 | TER | 12:52 | 1.3 | QUA | 15:01 | 1.1 | SEX | 14:51 | 1.2 | SEX | 15:19 | 1.2 |
| | | | | 19:01 | 2.4 | ((| 21:16 | 2.5 |) | 21:09 | 2.5 | | 21:30 | 2.6 |
| 13 | 00:48 | 1.1 | 29 | 01:03 | 1.5 | 13 | 03:16 | 1.4 | 29 | 03:15 | 1.3 | 13 | 03:32 | 1.3 |
| | 07:12 | 2.9 | | 07:36 | 2.6 | | 09:39 | 2.8 | | 09:31 | 2.8 | | 09:52 | 2.7 |
| | 13:45 | 1.1 | QUA | 14:12 | 1.4 | QUI | 16:18 | 1.1 | SÁB | 15:59 | 1.1 | SÁB | 16:21 | 1.2 |
| | 20:05 | 2.6 |) | 20:28 | 2.3 | | 22:32 | 2.6 | | 22:18 | 2.7 | | 22:34 | 2.6 |
| 14 | 02:10 | 1.4 | 30 | 02:37 | 1.5 | 14 | 04:30 | 1.3 | 30 | 04:23 | 1.2 | 14 | 04:37 | 1.3 |
| | 08:39 | 2.7 | | 09:04 | 2.6 | | 10:48 | 2.8 | | 10:36 | 2.9 | | 10:55 | 2.7 |
| | 15:25 | 1.2 | QUI | 15:44 | 1.4 | SEX | 17:17 | 1.1 | DOM | 16:58 | 0.9 | DOM | 17:16 | 1.2 |
| | 21:46 | 2.5 | | 22:05 | 2.4 | | 23:28 | 2.7 | | 23:16 | 2.9 | | 23:30 | 2.7 |
| 15 | 03:51 | 1.4 | 31 | 04:08 | 1.4 | 15 | 05:27 | 1.2 | 15 | 05:35 | 1.2 | 15 | 05:35 | 1.2 |
| | 10:14 | 2.8 | | 10:24 | 2.7 | | 11:43 | 2.9 | | 11:50 | 2.7 | | 11:50 | 2.7 |
| | 16:54 | 1.1 | SEX | 16:53 | 1.2 | SÁB | 18:04 | 1.0 | SEG | 18:04 | 1.1 | QUA | 18:16 | 0.8 |
| | 23:11 | 2.6 | | 23:11 | 2.6 | | | | | | | | | |
| 16 | 05:09 | 1.3 | | | | 16 | 00:12 | 2.8 | 16 | 00:17 | 2.8 | 16 | 00:17 | 2.8 |
| | 11:27 | 2.9 | | | | | 06:14 | 1.1 | | 06:25 | 1.1 | | 06:25 | 1.1 |
| | 17:56 | 1.0 | | | | DOM | 12:27 | 3.0 | TER | 12:37 | 2.8 | | 12:37 | 2.8 |
| | | | | | | | 18:42 | 0.9 | | 18:46 | 1.1 | | 18:46 | 1.1 |

201.2

LEIXÕES



PORTO DE LEIXÕES

NOTAS

1. **ANÁLISE HARMÓNICA:**

— Efetuada a partir de um ano de observações maregráficas, de 1 de janeiro de 2016 a 30 de dezembro de 2016.

2. **LOCALIZAÇÃO DO MARÉGRAFO:**

— No porto de Leixões:

Latitude 41° 11,20' N; Longitude 8° 42,27' W – WGS84.

3. **ALTURAS DE MARÉ:**

— Referidas ao nível do zero hidrográfico.

— Nível médio: 2,00 m.

4. **ZERO HIDROGRÁFICO:**

— 2,00 m abaixo do nível médio adotado (Cascais, 1938).

— 6,213 m abaixo da marca NIL, existente no canto NW do cais do marégrafo.

Porto de Leixões

Latitude 41° 11.20' N Longitude 8° 42.27' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JANEIRO | | | | FEVEREIRO | | | | MARÇO | | | | | | | | | | | | | | | |
|-----------|-------|--------|-----------|-----------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-------|-----------|-------|-------|-------|-------|-----|-------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | | | | | | | |
| 01 | 03:32 | 3.4 | 17 | 04:56 | 3.4 | 01 | 04:39 | 3.7 | 17 | 05:30 | 3.2 | 01 | 03:37 | 3.8 | 17 | 04:27 | 3.3 | | | | | | |
| | 09:49 | 0.6 | | 11:11 | 0.7 | | 10:52 | 0.3 | | 11:39 | 0.8 | | 09:50 | 0.2 | | 10:32 | 0.7 | | | | | | |
| | 15:58 | 3.1 | | SEX | 17:18 | | 3.0 | SÁB | | 17:02 | 3.3 | | SEG | 17:47 | | 3.0 | SÁB | 16:00 | 3.6 | SEG | 16:41 | 3.2 | |
| | 21:57 | 0.7 | | 23:14 | 0.8 | | 23:03 | 0.5 | | 23:48 | 0.9 | | 22:02 | 0.2 | | 22:44 | 0.7 | | | | | | |
| 02 | 04:13 | 3.4 | 18 | 05:32 | 3.2 | 02 | 05:21 | 3.6 | 18 | 06:02 | 3.0 | 02 | 04:18 | 3.8 | 18 | 04:56 | 3.1 | | | | | | |
| | 10:29 | 0.6 | | 11:47 | 0.8 | | 11:33 | 0.4 | | 12:11 | 1.0 | | 10:28 | 0.2 | | 11:01 | 0.8 | | | | | | |
| | QUI | 16:39 | | 3.1 | SÁB | | 17:54 | 2.9 | | DOM | 17:44 | | 3.3 | TER | | 18:20 | 2.8 | DOM | 16:38 | 3.5 | TER | 17:10 | 3.1 |
| | 22:38 | 0.7 | | 23:51 | 0.9 | | 23:46 | 0.5 | | 23:46 | 0.5 | | 22:42 | 0.3 | | 23:15 | 0.9 | | | | | | |
| 03 | 04:55 | 3.4 | 19 | 06:09 | 3.1 | 03 | 06:06 | 3.5 | 19 | 00:22 | 1.1 | 03 | 05:00 | 3.7 | 19 | 05:26 | 3.0 | | | | | | |
| | 11:11 | 0.6 | | 12:23 | 0.9 | | 12:17 | 0.6 | | 06:36 | 2.8 | | 11:08 | 0.3 | | 11:30 | 1.0 | | | | | | |
| | SEX | 17:21 | | 3.1 | DOM | | 18:31 | 2.8 | | SEG | 18:29 | | 3.1 | QUA | | 12:46 | 1.2 | SEG | 17:19 | 3.4 | QUA | 17:41 | 2.9 |
| | 23:21 | 0.7 | | 19:13 | 2.7 | | 19:29 | 2.9 | | 18:59 | 2.6 | | 23:25 | 0.4 | | 23:48 | 1.0 | | | | | | |
| 04 | 05:40 | 3.4 | 20 | 00:29 | 1.1 | 04 | 00:33 | 0.7 | 20 | 01:03 | 1.3 | 04 | 05:44 | 3.5 | 20 | 05:59 | 2.8 | | | | | | |
| | 11:56 | 0.7 | | 06:47 | 2.9 | | 06:55 | 3.2 | | 07:18 | 2.6 | | 11:50 | 0.6 | | 12:02 | 1.2 | | | | | | |
| | SÁB | 18:07 | | 3.0 | SEG | | 13:03 | 1.1 | | TER | 13:05 | | 0.8 | QUI | | 13:30 | 1.4 | TER | 18:03 | 3.2 | QUI | 18:18 | 2.7 |
| | | | | 19:13 | 2.7 | | 19:21 | 2.9 | | 19:52 | 2.5 | | 18:03 | 3.2 | | | | | | | | | |
| 05 | 00:07 | 0.8 | 21 | 01:11 | 1.2 | 05 | 01:27 | 0.9 | 21 | 02:00 | 1.5 | 05 | 00:11 | 0.6 | 21 | 00:26 | 1.2 | | | | | | |
| | 06:28 | 3.3 | | 07:30 | 2.7 | | 07:53 | 3.0 | | 08:19 | 2.4 | | 06:32 | 3.2 | | 06:38 | 2.6 | | | | | | |
| | DOM | 12:44 | | 0.8 | TER | | 13:48 | 1.3 | | QUA | 14:03 | | 1.1 | SEX | | 14:37 | 1.5 | QUA | 12:36 | 0.9 | SEX | 12:41 | 1.4 |
| | 18:57 | 2.9 | | (| 20:03 | | 2.5 |) | | 20:25 | 2.8 | | 21:13 | 2.4 | | 18:53 | 3.0 | 19:05 | 2.6 | | | | |
| 06 | 00:58 | 0.9 | 22 | 02:02 | 1.4 | 06 | 02:36 | 1.1 | 22 | 03:35 | 1.6 | 06 | 01:05 | 0.9 | 22 | 01:19 | 1.4 | | | | | | |
| | 07:22 | 3.2 | | 08:23 | 2.6 | | 09:05 | 2.8 | | 09:58 | 2.3 | | 07:30 | 2.9 | | 07:36 | 2.4 | | | | | | |
| | SEG | 13:39 | | 0.9 | QUA | | 14:45 | 1.4 | | QUI | 15:18 | | 1.2 | SÁB | | 16:22 | 1.6 | QUI | 13:33 | 1.2 | SÁB | 13:41 | 1.5 |
| |) | 19:55 | | 2.8 | 21:07 | | 2.5 | 21:47 | | 2.7 | 22:48 | | 2.5 |) | | 19:59 | 2.8 | (| 20:21 | 2.5 | | | |
| 07 | 01:58 | 1.0 | 23 | 03:10 | 1.5 | 07 | 04:09 | 1.2 | 23 | 05:21 | 1.5 | 07 | 02:19 | 1.2 | 23 | 02:52 | 1.5 | | | | | | |
| | 08:23 | 3.0 | | 09:31 | 2.5 | | 10:33 | 2.6 | | 11:36 | 2.4 | | 08:49 | 2.6 | | 09:19 | 2.3 | | | | | | |
| | TER | 14:42 | | 1.0 | QUI | | 15:57 | 1.4 | | SEX | 16:49 | | 1.3 | DOM | | 14:55 | 1.4 | SEX | 14:55 | 1.4 | DOM | 15:34 | 1.6 |
| | 21:02 | 2.8 | | 22:22 | 2.5 | | 23:15 | 2.7 | | 17:47 | 1.4 | | 21:31 | 2.6 | | 22:04 | 2.5 | | | | | | |
| 08 | 03:07 | 1.1 | 24 | 04:34 | 1.5 | 08 | 05:44 | 1.2 | 24 | 00:01 | 2.7 | 08 | 04:09 | 1.3 | 24 | 04:46 | 1.4 | | | | | | |
| | 09:33 | 2.9 | | 10:51 | 2.4 | | 11:58 | 2.7 | | 06:28 | 1.2 | | 10:33 | 2.5 | | 11:05 | 2.4 | | | | | | |
| | QUA | 15:52 | | 1.1 | SEX | | 17:12 | 1.4 | | SÁB | 18:09 | | 1.2 | SEG | | 12:39 | 2.6 | SÁB | 16:45 | 1.4 | SEG | 17:12 | 1.5 |
| | 22:15 | 2.8 | | 23:33 | 2.6 | | 18:42 | 1.2 | | 23:10 | 2.7 | | 23:10 | 2.7 | | 23:25 | 2.7 | | | | | | |
| 09 | 04:25 | 1.1 | 25 | 05:51 | 1.4 | 09 | 00:28 | 2.9 | 25 | 00:53 | 2.9 | 09 | 05:48 | 1.2 | 25 | 05:56 | 1.2 | | | | | | |
| | 10:47 | 2.9 | | 12:03 | 2.5 | | 06:55 | 1.0 | | 07:16 | 0.9 | | 12:01 | 2.6 | | 12:10 | 2.6 | | | | | | |
| | QUI | 17:04 | | 1.1 | SÁB | | 18:14 | 1.3 | | DOM | 13:04 | | 2.8 | TER | | 13:26 | 2.9 | DOM | 18:05 | 1.3 | TER | 18:11 | 1.2 |
| | 23:26 | 2.9 | | 19:08 | 1.1 | | 19:08 | 1.1 | | 19:26 | 1.0 | | 18:05 | 1.3 | | | | | | | | | |
| 10 | 05:42 | 1.0 | 26 | 00:30 | 2.7 | 10 | 01:24 | 3.1 | 26 | 01:37 | 3.2 | 10 | 00:22 | 2.9 | 26 | 00:21 | 3.0 | | | | | | |
| | 11:58 | 2.9 | | 06:49 | 1.2 | | 07:47 | 0.8 | | 07:56 | 0.7 | | 06:51 | 1.0 | | 06:44 | 0.9 | | | | | | |
| | SEX | 18:11 | | 1.0 | DOM | | 12:59 | 2.7 | | SEG | 13:55 | | 2.9 | QUA | | 14:06 | 3.1 | SEG | 13:00 | 2.7 | QUA | 12:57 | 2.9 |
| | | | | 19:03 | 1.1 | | 19:54 | 0.9 | | 20:06 | 0.7 | | 18:59 | 1.1 | | 18:57 | 0.9 | | | | | | |
| 11 | 00:30 | 3.0 | 27 | 01:17 | 2.9 | 11 | 02:09 | 3.3 | 27 | 02:18 | 3.5 | 11 | 01:14 | 3.1 | 27 | 01:07 | 3.3 | | | | | | |
| | 06:49 | 0.9 | | 07:36 | 1.0 | | 08:29 | 0.7 | | 08:34 | 0.4 | | 07:35 | 0.8 | | 07:26 | 0.6 | | | | | | |
| | SÁB | 13:01 | | 3.0 | SEG | | 13:45 | 2.8 | | TER | 14:36 | | 3.1 | QUI | | 14:44 | 3.3 | TER | 13:43 | 2.9 | QUI | 13:38 | 3.2 |
| | 19:08 | 0.9 | | 19:46 | 1.0 | | 20:33 | 0.8 | | 20:45 | 0.5 | | 19:40 | 0.9 | | 19:39 | 0.6 | | | | | | |
| 12 | 01:25 | 3.2 | 28 | 01:59 | 3.2 | 12 | 02:48 | 3.4 | 28 | 02:57 | 3.7 | 12 | 01:54 | 3.2 | 28 | 01:50 | 3.5 | | | | | | |
| | 07:45 | 0.7 | | 08:17 | 0.8 | | 09:04 | 0.6 | | 09:12 | 0.2 | | 08:10 | 0.7 | | 08:05 | 0.3 | | | | | | |
| | DOM | 13:55 | | 3.0 | TER | | 14:26 | 3.0 | | QUA | 15:11 | | 3.2 | SEX | | 15:22 | 3.5 | QUA | 14:17 | 3.1 | SEX | 14:17 | 3.4 |
| | 19:57 | 0.8 | | 20:26 | 0.8 | | ○ | 21:08 | | 0.7 | ● | | 21:23 | 0.3 | | 20:14 | 0.8 | 20:19 | 0.4 | | | | |
| 13 | 02:14 | 3.3 | 29 | 02:39 | 3.4 | 13 | 03:23 | 3.4 | 29 | 02:57 | 3.7 | 13 | 02:28 | 3.3 | 29 | 02:32 | 3.7 | | | | | | |
| | 08:34 | 0.6 | | 08:56 | 0.6 | | 09:37 | 0.5 | | 09:37 | 0.5 | | 08:41 | 0.6 | | 08:44 | 0.2 | | | | | | |
| | SEG | 14:43 | | 3.1 | QUA | | 15:05 | 3.2 | | QUI | 15:44 | | 3.2 | QUI | | 14:48 | 3.2 | SÁB | 14:55 | 3.6 | | | |
| | ○ | 20:42 | | 0.7 | ● | | 21:05 | 0.6 | | 21:41 | 0.6 | | 20:45 | 0.7 | | ● | 20:59 | 0.2 | | | | | |
| 14 | 02:58 | 3.4 | 30 | 03:18 | 3.5 | 14 | 03:56 | 3.5 | 30 | 02:59 | 3.4 | 14 | 02:59 | 3.4 | 30 | 03:13 | 3.8 | | | | | | |
| | 09:17 | 0.5 | | 09:34 | 0.4 | | 10:08 | 0.5 | | 10:08 | 0.5 | | 09:09 | 0.5 | | 09:23 | 0.1 | | | | | | |
| | TER | 15:26 | | 3.2 | QUI | | 15:44 | 3.3 | | SEX | 16:15 | | 3.2 | SEX | | 15:17 | 3.3 | DOM | 15:34 | 3.7 | | | |
| | 21:23 | 0.7 | | 21:44 | 0.5 | | 22:13 | 0.6 | | 21:15 | 0.6 | | 21:15 | 0.6 | | 21:40 | 0.2 | | | | | | |
| 15 | 03:39 | 3.5 | 31 | 03:58 | 3.6 | 15 | 04:28 | 3.4 | 31 | 03:29 | 3.4 | 15 | 03:29 | 3.4 | 31 | 03:56 | 3.8 | | | | | | |
| | 09:57 | 0.5 | | 10:13 | 0.3 | | 10:39 | 0.6 | | 10:39 | 0.6 | | 09:37 | 0.5 | | 10:03 | 0.2 | | | | | | |
| | QUA | 16:05 | | 3.2 | SEX | | 16:23 | 3.4 | | SÁB | 16:46 | | 3.2 | SÁB | | 15:45 | 3.3 | SEG | 16:14 | 3.6 | | | |
| | 22:01 | 0.7 | | 22:23 | 0.5 | | 22:44 | 0.7 | | 22:44 | 0.7 | | 21:45 | 0.6 | | 22:22 | 0.2 | | | | | | |
| 16 | 04:18 | 3.4 | 16 | 04:59 | 3.3 | 16 | 04:59 | 3.3 | 16 | 03:58 | 3.4 | 16 | 03:58 | 3.4 | 16 | 03:58 | 3.8 | | | | | | |
| | 10:35 | 0.6 | | 11:09 | 0.7 | | 11:09 | 0.7 | | 10:05 | 0.6 | | 10:05 | 0.6 | | 10:03 | 0.2 | | | | | | |
| | QUI | 16:42 | | 3.1 | DOM | | 17:16 | 3.1 | | DOM | 16:13 | | 3.3 | DOM | | 16:13 | 3.3 | DOM | 16:14 | 3.6 | | | |
| | 22:38 | 0.7 | | 23:16 | 0.8 | | 23:16 | 0.8 | | 22:14 | 0.6 | | 22:14 | 0.6 | | | | | | | | | |

Porto de Leixões

Latitude 41° 11.20' N Longitude 8° 42.27' W

Horas do Fuso: 0 (TU)

Ano: 2025

| ABRIL | | | | MAIO | | | | JUNHO | | | | | | | | | |
|-----------|-------|--------|-----------|-------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-----|-----------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 04:39 | 3.7 | 17 | 05:01 | 2.9 | 01 | 05:12 | 3.2 | 17 | 05:26 | 2.7 | 01 | 00:37 | 0.8 | 17 | 00:43 | 0.9 |
| | 10:44 | 0.4 | | 11:00 | 1.0 | | 11:10 | 0.7 | | 11:23 | 1.1 | | 06:52 | 2.8 | | 06:56 | 2.8 |
| TER | 16:56 | 3.5 | QUI | 17:15 | 3.0 | QUI | 17:28 | 3.3 | SÁB | 17:43 | 2.9 | DOM | 12:45 | 1.1 | TER | 12:54 | 1.1 |
| | 23:07 | 0.4 | | 23:26 | 1.0 | | 23:48 | 0.7 | | | | | 19:11 | 3.0 | | 19:17 | 3.0 |
| 02 | 05:25 | 3.4 | 18 | 05:36 | 2.7 | 02 | 06:06 | 3.0 | 18 | 00:02 | 1.1 | 02 | 01:39 | 1.0 | 18 | 01:38 | 1.0 |
| | 11:27 | 0.6 | | 11:35 | 1.2 | | 12:01 | 1.0 | | 06:14 | 2.6 | | 07:54 | 2.6 | | 07:55 | 2.7 |
| QUA | 17:42 | 3.3 | SEX | 17:54 | 2.8 | SEX | 18:24 | 3.1 | DOM | 12:10 | 1.2 | SEG | 13:47 | 1.2 | QUA | 13:54 | 1.1 |
| | 23:56 | 0.6 | | | | | | | | 18:35 | 2.8 | | 20:14 | 2.9 | (| 20:17 | 3.0 |
| 03 | 06:16 | 3.1 | 19 | 00:08 | 1.2 | 03 | 00:50 | 0.9 | 19 | 00:58 | 1.1 | 03 | 02:44 | 1.1 | 19 | 02:39 | 1.0 |
| | 12:15 | 0.9 | | 06:19 | 2.6 | | 07:10 | 2.7 | | 07:13 | 2.5 | | 09:00 | 2.6 | | 08:59 | 2.7 |
| QUI | 18:35 | 3.0 | SÁB | 12:17 | 1.3 | SÁB | 13:03 | 1.2 | SEG | 13:11 | 1.3 | TER | 14:54 | 1.3 | QUI | 15:00 | 1.1 |
| | | | | 18:44 | 2.7 | | 19:33 | 2.9 | | 19:38 | 2.8 |) | 21:19 | 2.8 | | 21:21 | 3.0 |
| 04 | 00:55 | 0.9 | 20 | 01:04 | 1.3 | 04 | 02:07 | 1.1 | 20 | 02:07 | 1.2 | 04 | 03:48 | 1.2 | 20 | 03:44 | 1.0 |
| | 07:18 | 2.8 | | 07:21 | 2.4 | | 08:28 | 2.5 | | 08:27 | 2.5 | | 10:04 | 2.6 | | 10:04 | 2.8 |
| SEX | 13:15 | 1.2 | DOM | 13:20 | 1.5 | DOM | 14:23 | 1.4 | TER | 14:26 | 1.3 | QUA | 16:01 | 1.3 | SEX | 16:09 | 1.1 |
| | 19:44 | 2.8 | | 19:55 | 2.6 |) | 20:54 | 2.8 | (| 20:50 | 2.8 | | 22:21 | 2.7 | | 22:27 | 3.0 |
| 05 | 02:17 | 1.2 | 21 | 02:29 | 1.4 | 05 | 03:34 | 1.2 | 21 | 03:21 | 1.1 | 05 | 04:46 | 1.2 | 21 | 04:47 | 0.9 |
| | 08:43 | 2.5 | | 08:53 | 2.4 | | 09:52 | 2.5 | | 09:42 | 2.6 | | 11:02 | 2.6 | | 11:07 | 2.9 |
| SÁB | 14:43 | 1.4 | SEG | 14:58 | 1.5 | SEG | 15:49 | 1.4 | QUA | 15:43 | 1.3 | QUI | 17:00 | 1.3 | SÁB | 17:15 | 1.0 |
|) | 21:19 | 2.7 | (| 21:25 | 2.6 |) | 22:13 | 2.8 |) | 22:00 | 2.9 |) | 23:17 | 2.7 |) | 23:31 | 3.1 |
| 06 | 04:04 | 1.3 | 22 | 04:04 | 1.3 | 06 | 04:48 | 1.2 | 22 | 04:28 | 1.0 | 06 | 05:35 | 1.1 | 22 | 05:47 | 0.8 |
| | 10:25 | 2.5 | | 10:25 | 2.5 | | 11:03 | 2.6 | | 10:47 | 2.8 | | 11:51 | 2.7 | | 12:06 | 3.1 |
| DOM | 16:28 | 1.4 | TER | 16:29 | 1.4 | TER | 17:00 | 1.3 | QUI | 16:49 | 1.1 | SEX | 17:52 | 1.2 | DOM | 18:18 | 0.8 |
| | 22:51 | 2.7 | | 22:42 | 2.8 |) | 23:18 | 2.8 |) | 23:03 | 3.1 | | | | | | |
| 07 | 05:30 | 1.2 | 23 | 05:13 | 1.1 | 07 | 05:44 | 1.1 | 23 | 05:25 | 0.8 | 07 | 00:05 | 2.8 | 23 | 00:32 | 3.1 |
| | 11:43 | 2.6 | | 11:30 | 2.7 | | 11:56 | 2.7 | | 11:42 | 3.0 | | 06:17 | 1.1 | | 06:43 | 0.7 |
| SEG | 17:43 | 1.3 | QUA | 17:32 | 1.2 | QUA | 17:54 | 1.2 | SEX | 17:46 | 0.9 | SÁB | 12:33 | 2.8 | SEG | 13:01 | 3.2 |
| | 23:59 | 2.9 | | 23:42 | 3.0 | | | | | 23:59 | 3.2 | | 18:37 | 1.1 | | 19:16 | 0.7 |
| 08 | 06:27 | 1.0 | 24 | 06:06 | 0.8 | 08 | 00:08 | 2.9 | 24 | 06:16 | 0.6 | 08 | 00:48 | 2.8 | 24 | 01:29 | 3.2 |
| | 12:37 | 2.7 | | 12:21 | 3.0 | | 06:26 | 1.0 | | 12:32 | 3.2 | | 06:56 | 1.0 | | 07:35 | 0.7 |
| TER | 18:34 | 1.1 | QUI | 18:22 | 0.9 | QUI | 12:38 | 2.8 | SÁB | 18:39 | 0.7 | DOM | 13:11 | 2.9 | TER | 13:53 | 3.4 |
| | | | | | | | 18:36 | 1.1 | | | | | 19:18 | 1.0 | | 20:10 | 0.5 |
| 09 | 00:48 | 3.0 | 25 | 00:33 | 3.3 | 09 | 00:49 | 3.0 | 25 | 00:52 | 3.4 | 09 | 01:27 | 2.9 | 25 | 02:23 | 3.2 |
| | 07:07 | 0.9 | | 06:51 | 0.6 | | 07:01 | 0.9 | | 07:04 | 0.5 | | 07:32 | 1.0 | | 08:25 | 0.6 |
| QUA | 13:16 | 2.9 | SEX | 13:05 | 3.2 | SEX | 13:13 | 3.0 | DOM | 13:20 | 3.4 | SEG | 13:47 | 3.0 | QUA | 14:42 | 3.5 |
| | 19:13 | 1.0 | | 19:08 | 0.6 | | 19:13 | 1.0 | | 19:29 | 0.5 | | 19:57 | 0.9 | ● | 21:02 | 0.5 |
| 10 | 01:26 | 3.1 | 26 | 01:20 | 3.5 | 10 | 01:24 | 3.0 | 26 | 01:43 | 3.5 | 10 | 02:05 | 2.9 | 26 | 03:14 | 3.2 |
| | 07:40 | 0.8 | | 07:34 | 0.4 | | 07:32 | 0.8 | | 07:51 | 0.4 | | 08:07 | 0.9 | | 09:13 | 0.6 |
| QUI | 13:49 | 3.0 | SÁB | 13:47 | 3.5 | SÁB | 13:45 | 3.1 | SEG | 14:06 | 3.5 | TER | 14:22 | 3.1 | QUI | 15:31 | 3.5 |
| | 19:47 | 0.9 | | 19:52 | 0.4 | | 19:47 | 0.9 | | 20:18 | 0.4 | | 20:34 | 0.9 | | 21:51 | 0.4 |
| 11 | 01:59 | 3.2 | 27 | 02:05 | 3.7 | 11 | 01:57 | 3.1 | 27 | 02:33 | 3.5 | 11 | 02:43 | 2.9 | 27 | 04:03 | 3.2 |
| | 08:09 | 0.7 | | 08:16 | 0.3 | | 08:03 | 0.8 | | 08:37 | 0.5 | | 08:43 | 0.9 | | 09:59 | 0.7 |
| SEX | 14:18 | 3.2 | DOM | 14:29 | 3.6 | DOM | 14:15 | 3.2 | TER | 14:52 | 3.6 | QUA | 14:57 | 3.2 | SEX | 16:18 | 3.5 |
| | 20:17 | 0.8 | ● | 20:36 | 0.2 | | 20:20 | 0.8 | ● | 21:08 | 0.3 | ○ | 21:12 | 0.8 | | 22:38 | 0.5 |
| 12 | 02:29 | 3.2 | 28 | 02:50 | 3.7 | 12 | 02:30 | 3.1 | 28 | 03:22 | 3.4 | 12 | 03:20 | 2.9 | 28 | 04:49 | 3.1 |
| | 08:36 | 0.6 | | 08:57 | 0.2 | | 08:33 | 0.8 | | 09:23 | 0.5 | | 09:19 | 0.9 | | 10:45 | 0.7 |
| SÁB | 14:46 | 3.2 | SEG | 15:11 | 3.7 | SEG | 14:46 | 3.2 | QUA | 15:39 | 3.6 | QUI | 15:34 | 3.2 | SÁB | 17:04 | 3.4 |
| | 20:47 | 0.7 | | 21:20 | 0.2 | ○ | 20:53 | 0.8 | | 21:57 | 0.4 | | 21:50 | 0.8 | | 23:24 | 0.6 |
| 13 | 02:59 | 3.3 | 29 | 03:36 | 3.6 | 13 | 03:02 | 3.1 | 29 | 04:12 | 3.3 | 13 | 03:58 | 2.9 | 29 | 05:35 | 3.0 |
| | 09:04 | 0.6 | | 09:40 | 0.3 | | 09:04 | 0.8 | | 10:10 | 0.6 | | 09:56 | 0.9 | | 11:29 | 0.8 |
| DOM | 15:14 | 3.3 | TER | 15:54 | 3.6 | TER | 15:17 | 3.2 | QUI | 16:28 | 3.5 | SEX | 16:12 | 3.2 | DOM | 17:50 | 3.3 |
| ○ | 21:17 | 0.7 | | 22:07 | 0.3 | | 21:26 | 0.8 | | 22:48 | 0.5 | | 22:28 | 0.8 | | | |
| 14 | 03:28 | 3.2 | 30 | 04:23 | 3.5 | 14 | 03:36 | 3.0 | 30 | 05:02 | 3.1 | 14 | 04:37 | 2.9 | 30 | 00:10 | 0.8 |
| | 09:32 | 0.7 | | 10:24 | 0.5 | | 09:35 | 0.8 | | 10:58 | 0.8 | | 10:34 | 0.9 | | 06:20 | 2.9 |
| SEG | 15:43 | 3.3 | QUA | 16:39 | 3.5 | QUA | 15:49 | 3.2 | SEX | 17:18 | 3.3 | SÁB | 16:52 | 3.2 | SEG | 12:15 | 1.0 |
| | 21:48 | 0.7 | | 22:55 | 0.4 | | 22:01 | 0.8 | | 23:41 | 0.7 | | 23:09 | 0.8 | | 18:37 | 3.1 |
| 15 | 03:58 | 3.2 | | | | 15 | 04:10 | 3.0 | 31 | 05:55 | 3.0 | 15 | 05:19 | 2.9 | | | |
| | 10:00 | 0.7 | | | | | 10:08 | 0.9 | | 11:49 | 1.0 | | 11:16 | 1.0 | | | |
| TER | 16:12 | 3.2 | | | | QUI | 16:23 | 3.1 | SÁB | 18:12 | 3.2 | DOM | 17:35 | 3.1 | | | |
| | 22:19 | 0.7 | | | | | 22:37 | 0.9 | | | | | 23:53 | 0.9 | | | |
| 16 | 04:29 | 3.1 | | | | 16 | 04:46 | 2.9 | | | | 16 | 06:05 | 2.8 | | | |
| | 10:30 | 0.9 | | | | | 10:43 | 1.0 | | | | | 12:02 | 1.0 | | | |
| QUA | 16:42 | 3.1 | | | | SEX | 17:01 | 3.0 | | | | | 18:23 | 3.1 | | | |
| | 22:51 | 0.9 | | | | | 23:16 | 1.0 | | | | | | | | | |

Porto de Leixões

Latitude 41° 11.20' N Longitude 8° 42.27' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JULHO | | | | AGOSTO | | | | SETEMBRO | | | | | | | | | |
|-----------|-------|--------|-----------|--------|--------|-----------|--------|----------|-----------|-------|--------|-----------|-------|-----|-----------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 00:57 | 0.9 | 17 | 01:06 | 0.8 | 01 | 01:31 | 1.2 | 17 | 02:34 | 1.2 | 01 | 02:23 | 1.5 | 17 | 05:29 | 1.3 |
| | 07:08 | 2.8 | | 07:21 | 2.9 | | 07:47 | 2.6 | | 09:02 | 2.7 | | 09:00 | 2.4 | | 11:47 | 2.9 |
| TER | 13:02 | 1.1 | QUI | 13:23 | 0.9 | SEX | 13:46 | 1.3 | DOM | 15:21 | 1.2 | SEG | 15:25 | 1.6 | QUA | 18:19 | 1.0 |
| | 19:26 | 2.9 | | 19:46 | 3.1 |) | 20:06 | 2.6 | | 21:47 | 2.7 | | 21:46 | 2.3 | | | |
| 02 | 01:46 | 1.1 | 18 | 02:01 | 0.9 | 02 | 02:24 | 1.3 | 18 | 04:01 | 1.3 | 02 | 04:07 | 1.6 | 18 | 00:28 | 2.8 |
| | 07:59 | 2.6 | | 08:20 | 2.8 | | 08:46 | 2.5 | | 10:30 | 2.7 | | 10:35 | 2.5 | | 06:29 | 1.1 |
| QUA | 13:54 | 1.2 | SEX | 14:24 | 1.0 | SÁB | 14:50 | 1.5 | SEG | 17:00 | 1.2 | TER | 17:10 | 1.5 | QUI | 12:44 | 3.1 |
|) | 20:18 | 2.8 | (| 20:48 | 3.0 | | 21:10 | 2.5 | | 23:17 | 2.7 | | 23:24 | 2.4 | | 19:08 | 0.8 |
| 03 | 02:39 | 1.2 | 19 | 03:05 | 1.0 | 03 | 03:32 | 1.4 | 19 | 05:28 | 1.2 | 03 | 05:32 | 1.5 | 19 | 01:16 | 2.9 |
| | 08:56 | 2.6 | | 09:28 | 2.8 | | 09:59 | 2.5 | | 11:50 | 2.9 | | 11:46 | 2.6 | | 07:14 | 0.9 |
| QUI | 14:52 | 1.3 | SÁB | 15:37 | 1.1 | DOM | 16:13 | 1.5 | TER | 18:20 | 1.0 | QUA | 18:15 | 1.3 | SEX | 13:28 | 3.3 |
| | 21:15 | 2.7 | | 22:00 | 2.9 | | 22:30 | 2.4 | | | | | | | | 19:46 | 0.7 |
| 04 | 03:37 | 1.3 | 20 | 04:17 | 1.1 | 04 | 04:50 | 1.4 | 20 | 00:30 | 2.8 | 04 | 00:26 | 2.5 | 20 | 01:54 | 3.1 |
| | 09:57 | 2.5 | | 10:41 | 2.8 | | 11:13 | 2.5 | | 06:35 | 1.1 | | 06:26 | 1.3 | | 07:51 | 0.8 |
| SEX | 15:57 | 1.4 | DOM | 16:57 | 1.1 | SEG | 17:35 | 1.4 | QUA | 12:53 | 3.1 | QUI | 12:37 | 2.9 | SÁB | 14:05 | 3.4 |
| | 22:16 | 2.6 | | 23:15 | 2.8 | | 23:46 | 2.4 | | 19:18 | 0.8 | | 19:00 | 1.0 | | 20:19 | 0.6 |
| 05 | 04:37 | 1.3 | 21 | 05:29 | 1.0 | 05 | 05:56 | 1.4 | 21 | 01:26 | 2.9 | 05 | 01:10 | 2.8 | 21 | 02:27 | 3.2 |
| | 10:57 | 2.6 | | 11:51 | 3.0 | | 12:14 | 2.7 | | 07:26 | 0.9 | | 07:08 | 1.0 | | 08:25 | 0.7 |
| SÁB | 17:03 | 1.4 | SEG | 18:12 | 1.0 | TER | 18:37 | 1.3 | QUI | 13:43 | 3.3 | SEX | 13:19 | 3.1 | DOM | 14:39 | 3.4 |
| | 23:17 | 2.6 | | | | | | | | 20:04 | 0.7 | | 19:38 | 0.8 | ● | 20:50 | 0.5 |
| 06 | 05:33 | 1.3 | 22 | 00:26 | 2.9 | 06 | 00:45 | 2.6 | 22 | 02:12 | 3.1 | 06 | 01:48 | 3.0 | 22 | 02:58 | 3.3 |
| | 11:52 | 2.7 | | 06:34 | 1.0 | | 06:48 | 1.2 | | 08:09 | 0.8 | | 07:46 | 0.8 | | 08:56 | 0.6 |
| DOM | 18:03 | 1.3 | TER | 12:53 | 3.1 | QUA | 13:03 | 2.9 | SEX | 14:25 | 3.4 | SÁB | 13:57 | 3.4 | SEG | 15:10 | 3.4 |
| | | | | 19:16 | 0.8 | | 19:24 | 1.1 | | 20:43 | 0.5 | | 20:14 | 0.5 | | 21:18 | 0.5 |
| 07 | 00:13 | 2.6 | 23 | 01:27 | 3.0 | 07 | 01:32 | 2.7 | 23 | 02:50 | 3.2 | 07 | 02:24 | 3.2 | 23 | 03:27 | 3.3 |
| | 06:23 | 1.2 | | 07:30 | 0.8 | | 07:32 | 1.1 | | 08:47 | 0.6 | | 08:23 | 0.6 | | 09:27 | 0.6 |
| SEG | 12:41 | 2.8 | QUA | 13:48 | 3.3 | QUI | 13:44 | 3.1 | SÁB | 15:03 | 3.5 | DOM | 14:35 | 3.6 | TER | 15:40 | 3.4 |
| | 18:55 | 1.2 | | 20:10 | 0.6 | | 20:04 | 0.9 | ● | 21:18 | 0.5 | ○ | 20:50 | 0.3 | | 21:47 | 0.6 |
| 08 | 01:03 | 2.7 | 24 | 02:19 | 3.1 | 08 | 02:12 | 2.9 | 24 | 03:26 | 3.2 | 08 | 02:59 | 3.4 | 24 | 03:56 | 3.3 |
| | 07:07 | 1.1 | | 08:19 | 0.7 | | 08:11 | 0.9 | | 09:22 | 0.6 | | 09:00 | 0.4 | | 09:58 | 0.6 |
| TER | 13:23 | 2.9 | QUI | 14:36 | 3.4 | SEX | 14:23 | 3.3 | DOM | 15:38 | 3.5 | SEG | 15:13 | 3.7 | QUA | 16:10 | 3.3 |
| | 19:40 | 1.0 | ● | 20:57 | 0.5 | | 20:41 | 0.7 | | 21:51 | 0.5 | | 21:26 | 0.2 | | 22:16 | 0.7 |
| 09 | 01:48 | 2.8 | 25 | 03:06 | 3.2 | 09 | 02:50 | 3.1 | 25 | 03:58 | 3.3 | 09 | 03:35 | 3.5 | 25 | 04:25 | 3.2 |
| | 07:48 | 1.0 | | 09:03 | 0.7 | | 08:48 | 0.7 | | 09:56 | 0.6 | | 09:38 | 0.3 | | 10:29 | 0.7 |
| QUA | 14:03 | 3.1 | SEX | 15:20 | 3.5 | SÁB | 15:01 | 3.4 | SEG | 16:12 | 3.4 | TER | 15:53 | 3.7 | QUI | 16:41 | 3.1 |
| | 20:21 | 0.9 | | 21:39 | 0.5 | ○ | 21:17 | 0.5 | | 22:23 | 0.5 | | 22:03 | 0.2 | | 22:45 | 0.8 |
| 10 | 02:29 | 2.9 | 26 | 03:48 | 3.2 | 10 | 03:26 | 3.2 | 26 | 04:30 | 3.2 | 10 | 04:13 | 3.5 | 26 | 04:55 | 3.1 |
| | 08:28 | 0.9 | | 09:44 | 0.6 | | 09:25 | 0.6 | | 10:29 | 0.6 | | 10:17 | 0.3 | | 11:00 | 0.9 |
| QUI | 14:42 | 3.2 | SÁB | 16:02 | 3.5 | DOM | 15:39 | 3.5 | TER | 16:45 | 3.3 | QUA | 16:33 | 3.7 | SEX | 17:12 | 2.9 |
| ○ | 21:00 | 0.8 | | 22:19 | 0.5 | | 21:53 | 0.4 | | 22:54 | 0.7 | | 22:41 | 0.3 | | 23:15 | 1.0 |
| 11 | 03:08 | 3.0 | 27 | 04:27 | 3.2 | 11 | 04:02 | 3.3 | 27 | 05:02 | 3.1 | 11 | 04:52 | 3.4 | 27 | 05:27 | 2.9 |
| | 09:06 | 0.9 | | 10:23 | 0.6 | | 10:02 | 0.5 | | 11:02 | 0.7 | | 10:58 | 0.4 | | 11:34 | 1.0 |
| SEX | 15:20 | 3.3 | DOM | 16:41 | 3.5 | SEG | 16:17 | 3.6 | QUA | 17:17 | 3.2 | QUI | 17:16 | 3.5 | SÁB | 17:45 | 2.7 |
| | 21:37 | 0.7 | | 22:57 | 0.6 | | 22:30 | 0.4 | | 23:25 | 0.8 | | 23:22 | 0.5 | | 23:48 | 1.2 |
| 12 | 03:46 | 3.0 | 28 | 05:05 | 3.1 | 12 | 04:40 | 3.3 | 28 | 05:34 | 3.0 | 12 | 05:35 | 3.3 | 28 | 06:04 | 2.7 |
| | 09:44 | 0.8 | | 11:01 | 0.7 | | 10:41 | 0.5 | | 11:35 | 0.9 | | 11:43 | 0.6 | | 12:14 | 1.2 |
| SÁB | 15:59 | 3.3 | SEG | 17:20 | 3.3 | TER | 16:57 | 3.6 | QUI | 17:50 | 3.0 | SEX | 18:03 | 3.3 | DOM | 18:25 | 2.5 |
| | 22:15 | 0.6 | | 23:34 | 0.7 | | 23:09 | 0.4 | | 23:57 | 1.0 | | | | | | |
| 13 | 04:24 | 3.1 | 29 | 05:42 | 3.0 | 13 | 05:19 | 3.3 | 29 | 06:08 | 2.8 | 13 | 00:07 | 0.8 | 29 | 00:27 | 1.4 |
| | 10:22 | 0.8 | | 11:39 | 0.8 | | 11:21 | 0.5 | | 12:11 | 1.1 | | 06:24 | 3.1 | | 06:53 | 2.6 |
| DOM | 16:38 | 3.4 | TER | 17:57 | 3.2 | QUA | 17:40 | 3.5 | SEX | 18:25 | 2.8 | SÁB | 12:35 | 0.8 | SEG | 13:09 | 1.4 |
| | 22:54 | 0.6 | | | | | 23:50 | 0.6 | | | | | 18:58 | 3.0 |) | 19:24 | 2.3 |
| 14 | 05:03 | 3.1 | 30 | 00:10 | 0.9 | 14 | 06:02 | 3.2 | 30 | 00:33 | 1.2 | 14 | 01:01 | 1.1 | 30 | 01:28 | 1.6 |
| | 11:02 | 0.8 | | 06:19 | 2.9 | | 12:05 | 0.7 | | 06:48 | 2.7 | | 07:25 | 2.9 | | 08:09 | 2.4 |
| SEG | 17:20 | 3.4 | QUA | 12:17 | 1.0 | QUI | 18:26 | 3.3 | SÁB | 12:52 | 1.3 | DOM | 13:44 | 1.1 | TER | 14:44 | 1.5 |
| | 23:35 | 0.6 | | 18:36 | 3.0 | | | | | 19:07 | 2.6 | (| 20:11 | 2.7 | | 21:08 | 2.2 |
| 15 | 05:45 | 3.0 | 31 | 00:49 | 1.0 | 15 | 00:35 | 0.8 | 31 | 01:16 | 1.4 | 15 | 02:15 | 1.3 | 15 | 02:50 | 2.7 |
| | 11:44 | 0.8 | | 07:00 | 2.7 | | 06:49 | 3.0 | | 07:40 | 2.5 | | 08:50 | 2.7 | | 15:25 | 1.2 |
| TER | 18:03 | 3.3 | QUI | 12:58 | 1.1 | SEX | 12:55 | 0.8 | DOM | 13:49 | 1.5 | SEG | 15:25 | 1.2 | | 21:50 | 2.5 |
| | | | | 19:17 | 2.8 | | 19:18 | 3.1 |) | 20:07 | 2.4 | | | | | | |
| 16 | 00:18 | 0.7 | | | | 16 | 01:27 | 1.0 | 16 | 04:00 | 1.4 | 16 | 04:00 | 1.4 | | | |
| | 06:30 | 3.0 | | | | | 07:48 | 2.9 | | 10:29 | 2.7 | | 10:29 | 2.7 | | | |
| QUA | 12:30 | 0.9 | | | | SÁB | 13:57 | 1.0 | | 17:08 | 1.2 | | 17:08 | 1.2 | | | |
| | 18:51 | 3.2 | | | | (| 20:23 | 2.8 | | 23:23 | 2.6 | | 23:23 | 2.6 | | | |

Porto de Leixões

Latitude 41° 11.20' N Longitude 8° 42.27' W

Horas do Fuso: 0 (TU)

Ano: 2025

| OUTUBRO | | | | | NOVEMBRO | | | | | DEZEMBRO | | | | | | | |
|-----------|-------|--------|-----------|--------|----------|-----------|-------|--------|-----------|----------|------|-----------|-------|--------|-----------|-------|-----|
| | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | |
| 01 | 03:22 | 1.6 | 17 | 00:08 | 2.8 | 01 | 05:09 | 1.2 | 17 | 00:56 | 2.9 | 01 | 05:18 | 1.0 | 17 | 01:01 | 2.9 |
| | 09:51 | 2.5 | | 06:07 | 1.1 | | 11:19 | 2.9 | | 06:57 | 1.0 | | 11:31 | 3.1 | | 07:10 | 1.1 |
| | 16:36 | 1.5 | SEX | 12:22 | 3.0 | SÁB | 17:44 | 0.9 | SEG | 13:09 | 3.0 | SEG | 17:50 | 0.8 | QUA | 13:19 | 2.8 |
| | 22:53 | 2.3 | | 18:43 | 0.8 | | 23:58 | 2.9 | | 19:18 | 0.8 | | | | | 19:24 | 1.0 |
| 02 | 04:57 | 1.5 | 18 | 00:52 | 2.9 | 02 | 05:59 | 1.0 | 18 | 01:29 | 3.1 | 02 | 00:06 | 3.1 | 18 | 01:38 | 3.0 |
| | 11:09 | 2.6 | | 06:50 | 1.0 | | 12:09 | 3.2 | | 07:32 | 0.9 | | 06:12 | 0.8 | | 07:49 | 1.0 |
| | 17:41 | 1.2 | SÁB | 13:03 | 3.2 | DOM | 18:28 | 0.7 | TER | 13:43 | 3.0 | TER | 12:25 | 3.3 | QUI | 13:58 | 2.9 |
| | 23:54 | 2.6 | | 19:19 | 0.7 | | | | | 19:48 | 0.8 | | 18:39 | 0.6 | | 19:59 | 0.9 |
| 03 | 05:53 | 1.3 | 19 | 01:28 | 3.1 | 03 | 00:41 | 3.1 | 19 | 02:01 | 3.1 | 03 | 00:54 | 3.3 | 19 | 02:14 | 3.1 |
| | 12:02 | 2.9 | | 07:26 | 0.8 | | 06:43 | 0.7 | | 08:06 | 0.8 | | 07:03 | 0.6 | | 08:26 | 0.9 |
| | 18:26 | 0.9 | DOM | 13:39 | 3.2 | SEG | 12:54 | 3.4 | QUA | 14:16 | 3.1 | QUA | 13:17 | 3.4 | SEX | 14:34 | 2.9 |
| | | | | 19:50 | 0.7 | | 19:09 | 0.5 | | 20:19 | 0.8 | | 19:26 | 0.5 | | 20:34 | 0.9 |
| 04 | 00:38 | 2.8 | 20 | 01:59 | 3.2 | 04 | 01:22 | 3.4 | 20 | 02:32 | 3.2 | 04 | 01:41 | 3.5 | 20 | 02:48 | 3.2 |
| | 06:37 | 1.0 | | 07:58 | 0.7 | | 07:27 | 0.5 | | 08:39 | 0.8 | | 07:53 | 0.4 | | 09:02 | 0.8 |
| | 12:46 | 3.2 | SEG | 14:11 | 3.3 | TER | 13:39 | 3.6 | QUI | 14:49 | 3.1 | QUI | 14:07 | 3.5 | SÁB | 15:10 | 2.9 |
| | 19:05 | 0.7 | | 20:18 | 0.6 | | 19:50 | 0.3 | ● | 20:50 | 0.8 | ○ | 20:13 | 0.4 | ● | 21:09 | 0.9 |
| 05 | 01:16 | 3.1 | 21 | 02:28 | 3.2 | 05 | 02:03 | 3.5 | 21 | 03:03 | 3.2 | 05 | 02:28 | 3.6 | 21 | 03:23 | 3.2 |
| | 07:16 | 0.7 | | 08:30 | 0.7 | | 08:10 | 0.3 | | 09:13 | 0.8 | | 08:43 | 0.3 | | 09:38 | 0.8 |
| | 13:27 | 3.4 | TER | 14:41 | 3.3 | QUA | 14:23 | 3.7 | SEX | 15:22 | 3.0 | SEX | 14:57 | 3.5 | DOM | 15:46 | 2.9 |
| | 19:42 | 0.4 | ● | 20:46 | 0.6 | ○ | 20:31 | 0.3 | | 21:21 | 0.8 | | 20:59 | 0.5 | | 21:44 | 0.9 |
| 06 | 01:53 | 3.3 | 22 | 02:57 | 3.3 | 06 | 02:44 | 3.6 | 22 | 03:36 | 3.2 | 06 | 03:15 | 3.6 | 22 | 03:59 | 3.2 |
| | 07:55 | 0.5 | | 09:00 | 0.7 | | 08:54 | 0.2 | | 09:47 | 0.8 | | 09:33 | 0.3 | | 10:15 | 0.8 |
| | 14:07 | 3.6 | QUA | 15:11 | 3.2 | QUI | 15:09 | 3.6 | SÁB | 15:56 | 2.9 | SÁB | 15:47 | 3.4 | SEG | 16:22 | 2.9 |
| | 20:19 | 0.3 | | 21:15 | 0.7 | | 21:14 | 0.3 | | 21:54 | 0.9 | | 21:46 | 0.5 | | 22:20 | 0.9 |
| 07 | 02:30 | 3.5 | 23 | 03:26 | 3.3 | 07 | 03:27 | 3.7 | 23 | 04:09 | 3.1 | 07 | 04:04 | 3.6 | 23 | 04:36 | 3.2 |
| | 08:34 | 0.3 | | 09:31 | 0.7 | | 09:40 | 0.2 | | 10:23 | 0.9 | | 10:23 | 0.4 | | 10:52 | 0.8 |
| | 14:47 | 3.7 | QUI | 15:42 | 3.1 | SEX | 15:56 | 3.5 | DOM | 16:31 | 2.9 | DOM | 16:37 | 3.3 | TER | 17:00 | 2.9 |
| | 20:57 | 0.2 | | 21:44 | 0.7 | | 21:57 | 0.4 | | 22:29 | 1.0 | | 22:34 | 0.7 | | 22:57 | 0.9 |
| 08 | 03:08 | 3.6 | 24 | 03:56 | 3.2 | 08 | 04:13 | 3.6 | 24 | 04:46 | 3.0 | 08 | 04:54 | 3.5 | 24 | 05:15 | 3.1 |
| | 09:14 | 0.2 | | 10:03 | 0.8 | | 10:28 | 0.4 | | 11:01 | 1.0 | | 11:15 | 0.5 | | 11:31 | 0.9 |
| | 15:28 | 3.8 | SEX | 16:13 | 3.0 | SÁB | 16:45 | 3.3 | SEG | 17:09 | 2.7 | SEG | 17:28 | 3.1 | QUA | 17:39 | 2.8 |
| | 21:36 | 0.2 | | 22:14 | 0.9 | | 22:44 | 0.6 | | 23:06 | 1.1 | | 23:24 | 0.8 | | 23:38 | 1.0 |
| 09 | 03:47 | 3.6 | 25 | 04:27 | 3.1 | 09 | 05:02 | 3.4 | 25 | 05:26 | 2.9 | 09 | 05:46 | 3.3 | 25 | 05:57 | 3.1 |
| | 09:55 | 0.2 | | 10:36 | 0.9 | | 11:21 | 0.6 | | 11:44 | 1.1 | | 12:10 | 0.7 | | 12:14 | 0.9 |
| | 16:11 | 3.7 | SÁB | 16:45 | 2.9 | DOM | 17:38 | 3.1 | TER | 17:52 | 2.6 | TER | 18:23 | 2.9 | QUI | 18:24 | 2.8 |
| | 22:16 | 0.4 | | 22:45 | 1.0 | | 23:35 | 0.9 | | 23:49 | 1.2 | | | | | | |
| 10 | 04:29 | 3.5 | 26 | 05:00 | 3.0 | 10 | 05:57 | 3.2 | 26 | 06:13 | 2.8 | 10 | 00:18 | 1.0 | 26 | 00:23 | 1.1 |
| | 10:40 | 0.3 | | 11:12 | 1.0 | | 12:21 | 0.8 | | 12:34 | 1.2 | | 06:43 | 3.1 | | 06:44 | 3.0 |
| | 16:57 | 3.4 | DOM | 17:21 | 2.7 | SEG | 18:40 | 2.8 | QUA | 18:46 | 2.5 | QUA | 13:08 | 0.9 | SEX | 13:02 | 1.0 |
| | 22:59 | 0.6 | | 23:19 | 1.2 | | | | | | | | 19:22 | 2.7 | | 19:15 | 2.7 |
| 11 | 05:14 | 3.4 | 27 | 05:39 | 2.8 | 11 | 00:34 | 1.1 | 27 | 00:43 | 1.3 | 11 | 01:16 | 1.1 | 27 | 01:15 | 1.1 |
| | 11:28 | 0.6 | | 11:53 | 1.2 | | 07:03 | 3.0 | | 07:10 | 2.8 | | 07:44 | 3.0 | | 07:38 | 3.0 |
| | 17:47 | 3.2 | SEG | 18:03 | 2.5 | TER | 13:34 | 1.0 | QUI | 13:36 | 1.2 | QUI | 14:12 | 1.1 | SÁB | 13:59 | 1.0 |
| | 23:47 | 0.9 | | | | | 19:54 | 2.6 | | 19:53 | 2.5 | ((| 20:27 | 2.6 |)) | 20:16 | 2.7 |
| 12 | 06:07 | 3.1 | 28 | 00:01 | 1.3 | 12 | 01:49 | 1.3 | 28 | 01:51 | 1.4 | 12 | 02:22 | 1.2 | 28 | 02:17 | 1.2 |
| | 12:26 | 0.8 | | 06:27 | 2.7 | | 08:21 | 2.9 | | 08:18 | 2.7 | | 08:50 | 2.8 | | 08:41 | 2.9 |
| | 18:47 | 2.8 | TER | 12:48 | 1.3 | QUA | 14:59 | 1.1 | SEX | 14:48 | 1.2 | SEX | 15:19 | 1.2 | DOM | 15:02 | 1.1 |
| | | | | 19:02 | 2.4 | ((| 21:17 | 2.6 |)) | 21:08 | 2.5 | | 21:34 | 2.6 | | 21:23 | 2.7 |
| 13 | 00:45 | 1.1 | 29 | 01:00 | 1.5 | 13 | 03:15 | 1.3 | 29 | 03:08 | 1.3 | 13 | 03:31 | 1.3 | 29 | 03:27 | 1.2 |
| | 07:13 | 2.9 | | 07:35 | 2.6 | | 09:42 | 2.8 | | 09:28 | 2.8 | | 09:57 | 2.8 | | 09:49 | 2.9 |
| | 13:42 | 1.1 | QUA | 14:10 | 1.4 | QUI | 16:18 | 1.1 | SÁB | 15:57 | 1.1 | SÁB | 16:23 | 1.2 | SEG | 16:10 | 1.0 |
| | 20:08 | 2.6 |)) | 20:31 | 2.3 | | 22:33 | 2.6 | | 22:16 | 2.7 | | 22:39 | 2.6 | | 22:32 | 2.8 |
| 14 | 02:06 | 1.4 | 30 | 02:34 | 1.6 | 14 | 04:31 | 1.3 | 30 | 04:18 | 1.2 | 14 | 04:38 | 1.3 | 30 | 04:40 | 1.1 |
| | 08:42 | 2.8 | | 09:03 | 2.6 | | 10:51 | 2.9 | | 10:33 | 2.9 | | 10:59 | 2.7 | | 10:58 | 3.0 |
| | 15:25 | 1.2 | QUI | 15:44 | 1.4 | SEX | 17:20 | 1.1 | DOM | 16:57 | 0.9 | DOM | 17:19 | 1.2 | TER | 17:16 | 0.9 |
| | 21:47 | 2.5 | | 22:04 | 2.4 | | 23:32 | 2.7 | | 23:14 | 2.9 | | 23:34 | 2.7 | | 23:36 | 3.0 |
| 15 | 03:50 | 1.4 | 31 | 04:06 | 1.5 | 15 | 05:30 | 1.2 | 15 | 05:37 | 1.3 | 15 | 05:37 | 1.3 | 31 | 05:48 | 0.9 |
| | 10:16 | 2.8 | | 10:20 | 2.7 | | 11:47 | 2.9 | | 11:52 | 2.7 | | 11:52 | 2.7 | | 12:04 | 3.0 |
| | 16:56 | 1.1 | SEX | 16:53 | 1.2 | SÁB | 18:07 | 1.0 | SEG | 18:06 | 1.1 | QUA | 18:17 | 0.8 | | | |
| | 23:10 | 2.6 | | 23:09 | 2.6 | | | | | | | | | | | | |
| 16 | 05:11 | 1.3 | | | | 16 | 00:18 | 2.8 | 16 | 00:21 | 2.8 | 16 | 00:21 | 2.8 | | | |
| | 11:28 | 2.9 | | | | | 06:17 | 1.1 | | 06:26 | 1.2 | | 06:26 | 1.2 | | | |
| | 17:58 | 1.0 | | | | DOM | 12:31 | 3.0 | TER | 12:38 | 2.8 | | 12:38 | 2.8 | | | |
| | | | | | | | 18:45 | 0.9 | | 18:47 | 1.1 | | | | | | |

Leixões

Latitude 41° 11.20' N Longitude 8° 42.27' W

Horas do Fuso: 0 (TU)

JANEIRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 01 QUA | 1.82 | 2.46 | 3.02 | 3.35 | 3.36 | 3.05 | 2.48 | 1.80 | 1.17 | 0.75 | 0.65 | 0.87 | 1.35 | 1.96 | 2.56 | 2.99 | 3.15 | 2.98 | 2.54 | 1.94 | 1.35 | 0.92 | 0.77 | 0.95 |
| 02 QUI | 1.41 | 2.04 | 2.68 | 3.20 | 3.44 | 3.34 | 2.92 | 2.28 | 1.58 | 0.99 | 0.65 | 0.66 | 0.98 | 1.53 | 2.16 | 2.73 | 3.08 | 3.13 | 2.86 | 2.36 | 1.75 | 1.18 | 0.82 | 0.78 |
| 03 SEX | 1.06 | 1.59 | 2.24 | 2.86 | 3.30 | 3.45 | 3.24 | 2.75 | 2.08 | 1.40 | 0.87 | 0.64 | 0.74 | 1.14 | 1.71 | 2.33 | 2.84 | 3.10 | 3.06 | 2.72 | 2.18 | 1.58 | 1.07 | 0.80 |
| 04 SÁB | 0.86 | 1.21 | 1.76 | 2.39 | 2.96 | 3.33 | 3.38 | 3.11 | 2.58 | 1.92 | 1.29 | 0.84 | 0.70 | 0.88 | 1.30 | 1.87 | 2.44 | 2.87 | 3.06 | 2.94 | 2.57 | 2.04 | 1.48 | 1.04 |
| 05 DOM | 0.85 | 0.97 | 1.35 | 1.89 | 2.48 | 2.99 | 3.28 | 3.27 | 2.97 | 2.44 | 1.82 | 1.25 | 0.88 | 0.81 | 1.02 | 1.44 | 1.97 | 2.48 | 2.84 | 2.97 | 2.82 | 2.46 | 1.96 | 1.45 |
| 06 SEG | 1.07 | 0.94 | 1.09 | 1.45 | 1.96 | 2.50 | 2.94 | 3.18 | 3.14 | 2.84 | 2.35 | 1.78 | 1.28 | 0.98 | 0.94 | 1.14 | 1.53 | 2.00 | 2.45 | 2.77 | 2.87 | 2.74 | 2.40 | 1.95 |
| 07 TER | 1.49 | 1.16 | 1.05 | 1.18 | 1.50 | 1.95 | 2.44 | 2.83 | 3.05 | 3.02 | 2.76 | 2.32 | 1.81 | 1.36 | 1.09 | 1.05 | 1.22 | 1.56 | 1.98 | 2.39 | 2.70 | 2.81 | 2.71 | 2.42 |
| 08 QUA | 2.01 | 1.59 | 1.27 | 1.14 | 1.22 | 1.48 | 1.88 | 2.32 | 2.70 | 2.93 | 2.94 | 2.72 | 2.34 | 1.88 | 1.46 | 1.18 | 1.10 | 1.23 | 1.53 | 1.92 | 2.33 | 2.66 | 2.81 | 2.76 |
| 09 QUI | 2.51 | 2.12 | 1.70 | 1.35 | 1.17 | 1.18 | 1.39 | 1.75 | 2.18 | 2.58 | 2.85 | 2.91 | 2.75 | 2.40 | 1.96 | 1.53 | 1.22 | 1.10 | 1.19 | 1.46 | 1.87 | 2.31 | 2.68 | 2.89 |
| 10 SEX | 2.87 | 2.64 | 2.24 | 1.78 | 1.38 | 1.13 | 1.09 | 1.26 | 1.61 | 2.06 | 2.50 | 2.82 | 2.94 | 2.81 | 2.47 | 2.01 | 1.55 | 1.20 | 1.04 | 1.12 | 1.41 | 1.85 | 2.35 | 2.77 |
| 11 SÁB | 3.02 | 3.02 | 2.77 | 2.33 | 1.81 | 1.34 | 1.02 | 0.94 | 1.12 | 1.50 | 2.00 | 2.50 | 2.87 | 3.01 | 2.88 | 2.51 | 2.01 | 1.50 | 1.11 | 0.95 | 1.04 | 1.39 | 1.90 | 2.46 |
| 12 DOM | 2.93 | 3.18 | 3.16 | 2.86 | 2.35 | 1.75 | 1.22 | 0.87 | 0.80 | 1.01 | 1.45 | 2.02 | 2.57 | 2.96 | 3.09 | 2.92 | 2.50 | 1.93 | 1.38 | 0.99 | 0.85 | 1.01 | 1.43 | 2.02 |
| 13 SEG | 2.63 | 3.11 | 3.34 | 3.26 | 2.87 | 2.27 | 1.61 | 1.05 | 0.71 | 0.69 | 0.98 | 1.50 | 2.13 | 2.70 | 3.08 | 3.15 | 2.90 | 2.40 | 1.79 | 1.22 | 0.85 | 0.79 | 1.05 | 1.56 |
| 14 TER | 2.20 | 2.83 | 3.29 | 3.45 | 3.27 | 2.78 | 2.12 | 1.42 | 0.87 | 0.60 | 0.67 | 1.06 | 1.65 | 2.30 | 2.86 | 3.17 | 3.14 | 2.80 | 2.23 | 1.59 | 1.05 | 0.75 | 0.80 | 1.16 |
| 15 QUA | 1.75 | 2.42 | 3.03 | 3.41 | 3.47 | 3.18 | 2.61 | 1.90 | 1.21 | 0.73 | 0.57 | 0.76 | 1.23 | 1.86 | 2.51 | 3.00 | 3.20 | 3.05 | 2.62 | 2.00 | 1.38 | 0.90 | 0.72 | 0.89 |
| 16 QUI | 1.35 | 1.98 | 2.64 | 3.18 | 3.46 | 3.39 | 2.99 | 2.36 | 1.66 | 1.04 | 0.67 | 0.64 | 0.94 | 1.47 | 2.11 | 2.69 | 3.07 | 3.14 | 2.88 | 2.38 | 1.76 | 1.19 | 0.83 | 0.78 |
| 17 SEX | 1.06 | 1.58 | 2.21 | 2.82 | 3.25 | 3.40 | 3.21 | 2.74 | 2.10 | 1.44 | 0.93 | 0.70 | 0.81 | 1.19 | 1.75 | 2.34 | 2.82 | 3.06 | 3.00 | 2.66 | 2.13 | 1.55 | 1.08 | 0.85 |
| 18 SÁB | 0.93 | 1.29 | 1.83 | 2.42 | 2.93 | 3.23 | 3.24 | 2.96 | 2.46 | 1.86 | 1.30 | 0.92 | 0.84 | 1.04 | 1.47 | 1.99 | 2.50 | 2.85 | 2.96 | 2.80 | 2.41 | 1.91 | 1.41 | 1.06 |
| 19 DOM | 0.96 | 1.14 | 1.53 | 2.05 | 2.55 | 2.95 | 3.12 | 3.03 | 2.69 | 2.21 | 1.68 | 1.24 | 1.01 | 1.03 | 1.30 | 1.71 | 2.17 | 2.57 | 2.80 | 2.81 | 2.59 | 2.20 | 1.75 | 1.36 |
| 20 SEG | 1.13 | 1.13 | 1.36 | 1.75 | 2.20 | 2.61 | 2.88 | 2.94 | 2.79 | 2.45 | 2.02 | 1.59 | 1.27 | 1.15 | 1.25 | 1.52 | 1.88 | 2.26 | 2.55 | 2.69 | 2.63 | 2.40 | 2.06 | 1.69 |
| 21 TER | 1.40 | 1.26 | 1.33 | 1.56 | 1.90 | 2.26 | 2.57 | 2.75 | 2.75 | 2.57 | 2.27 | 1.91 | 1.58 | 1.36 | 1.31 | 1.42 | 1.66 | 1.97 | 2.27 | 2.49 | 2.57 | 2.50 | 2.30 | 2.01 |
| 22 QUA | 1.71 | 1.50 | 1.41 | 1.48 | 1.68 | 1.96 | 2.25 | 2.48 | 2.60 | 2.58 | 2.43 | 2.18 | 1.89 | 1.63 | 1.46 | 1.43 | 1.53 | 1.72 | 1.98 | 2.23 | 2.41 | 2.49 | 2.44 | 2.28 |
| 23 QUI | 2.04 | 1.79 | 1.61 | 1.52 | 1.56 | 1.71 | 1.93 | 2.17 | 2.37 | 2.48 | 2.48 | 2.37 | 2.17 | 1.92 | 1.69 | 1.53 | 1.48 | 1.54 | 1.71 | 1.94 | 2.18 | 2.38 | 2.49 | 2.47 |
| 24 SEX | 2.34 | 2.12 | 1.88 | 1.67 | 1.55 | 1.54 | 1.65 | 1.84 | 2.07 | 2.28 | 2.43 | 2.48 | 2.40 | 2.22 | 1.97 | 1.73 | 1.54 | 1.45 | 1.49 | 1.65 | 1.90 | 2.19 | 2.43 | 2.58 |
| 25 SÁB | 2.59 | 2.45 | 2.21 | 1.92 | 1.65 | 1.47 | 1.43 | 1.52 | 1.72 | 2.00 | 2.27 | 2.48 | 2.56 | 2.49 | 2.29 | 2.00 | 1.70 | 1.46 | 1.34 | 1.38 | 1.59 | 1.91 | 2.27 | 2.57 |
| 26 DOM | 2.75 | 2.75 | 2.57 | 2.25 | 1.88 | 1.53 | 1.30 | 1.24 | 1.36 | 1.64 | 2.00 | 2.36 | 2.61 | 2.70 | 2.60 | 2.33 | 1.96 | 1.59 | 1.30 | 1.18 | 1.28 | 1.57 | 1.99 | 2.43 |
| 27 SEG | 2.79 | 2.97 | 2.92 | 2.65 | 2.22 | 1.73 | 1.31 | 1.06 | 1.04 | 1.25 | 1.63 | 2.10 | 2.53 | 2.81 | 2.87 | 2.69 | 2.32 | 1.84 | 1.39 | 1.09 | 1.02 | 1.21 | 1.62 | 2.15 |
| 28 TER | 2.68 | 3.06 | 3.20 | 3.05 | 2.64 | 2.08 | 1.50 | 1.04 | 0.81 | 0.87 | 1.20 | 1.72 | 2.29 | 2.76 | 3.03 | 3.01 | 2.71 | 2.21 | 1.64 | 1.15 | 0.87 | 0.89 | 1.21 | 1.76 |
| 29 QUA | 2.39 | 2.96 | 3.33 | 3.37 | 3.09 | 2.54 | 1.86 | 1.21 | 0.75 | 0.60 | 0.79 | 1.27 | 1.90 | 2.54 | 3.02 | 3.22 | 3.08 | 2.64 | 2.02 | 1.38 | 0.89 | 0.68 | 0.83 | 1.30 |
| 30 QUI | 1.96 | 2.67 | 3.25 | 3.54 | 3.47 | 3.04 | 2.36 | 1.59 | 0.92 | 0.52 | 0.49 | 0.83 | 1.43 | 2.15 | 2.80 | 3.23 | 3.32 | 3.04 | 2.48 | 1.77 | 1.11 | 0.66 | 0.57 | 0.87 |
| 31 SEX | 1.46 | 2.21 | 2.94 | 3.48 | 3.67 | 3.45 | 2.89 | 2.12 | 1.31 | 0.68 | 0.39 | 0.51 | 0.98 | 1.67 | 2.41 | 3.03 | 3.37 | 3.32 | 2.91 | 2.25 | 1.51 | 0.87 | 0.53 | 0.57 |

Leixões

Latitude 41° 11.20' N Longitude 8° 42.27' W

Horas do Fuso: 0 (TU)

FEVEREIRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 SÁB | 1.00 | 1.68 | 2.46 | 3.16 | 3.61 | 3.67 | 3.33 | 2.68 | 1.86 | 1.09 | 0.55 | 0.39 | 0.64 | 1.20 | 1.92 | 2.64 | 3.18 | 3.39 | 3.21 | 2.70 | 2.00 | 1.28 | 0.73 | 0.50 |
| 02 DOM | 0.68 | 1.19 | 1.90 | 2.66 | 3.28 | 3.62 | 3.56 | 3.13 | 2.44 | 1.65 | 0.96 | 0.54 | 0.52 | 0.86 | 1.45 | 2.15 | 2.79 | 3.21 | 3.29 | 3.02 | 2.48 | 1.80 | 1.14 | 0.70 |
| 03 SEG | 0.60 | 0.86 | 1.39 | 2.08 | 2.76 | 3.28 | 3.50 | 3.36 | 2.89 | 2.23 | 1.52 | 0.94 | 0.66 | 0.74 | 1.11 | 1.67 | 2.29 | 2.82 | 3.13 | 3.12 | 2.82 | 2.29 | 1.68 | 1.13 |
| 04 TER | 0.79 | 0.78 | 1.07 | 1.57 | 2.17 | 2.75 | 3.16 | 3.29 | 3.11 | 2.68 | 2.09 | 1.49 | 1.04 | 0.87 | 0.98 | 1.33 | 1.82 | 2.33 | 2.75 | 2.97 | 2.93 | 2.65 | 2.19 | 1.67 |
| 05 QUA | 1.23 | 0.98 | 0.99 | 1.24 | 1.66 | 2.15 | 2.62 | 2.94 | 3.04 | 2.88 | 2.52 | 2.05 | 1.57 | 1.22 | 1.09 | 1.19 | 1.47 | 1.85 | 2.27 | 2.61 | 2.80 | 2.78 | 2.57 | 2.21 |
| 06 QUI | 1.78 | 1.41 | 1.20 | 1.18 | 1.34 | 1.65 | 2.03 | 2.41 | 2.69 | 2.81 | 2.72 | 2.47 | 2.10 | 1.72 | 1.42 | 1.28 | 1.32 | 1.50 | 1.80 | 2.14 | 2.46 | 2.67 | 2.72 | 2.60 |
| 07 SEX | 2.32 | 1.97 | 1.63 | 1.38 | 1.28 | 1.33 | 1.53 | 1.84 | 2.18 | 2.48 | 2.66 | 2.67 | 2.51 | 2.22 | 1.88 | 1.57 | 1.38 | 1.33 | 1.43 | 1.68 | 2.01 | 2.36 | 2.64 | 2.77 |
| 08 SÁB | 2.72 | 2.50 | 2.16 | 1.79 | 1.46 | 1.26 | 1.22 | 1.36 | 1.64 | 2.01 | 2.36 | 2.62 | 2.71 | 2.61 | 2.35 | 1.99 | 1.63 | 1.36 | 1.24 | 1.31 | 1.56 | 1.93 | 2.35 | 2.71 |
| 09 DOM | 2.91 | 2.90 | 2.68 | 2.30 | 1.85 | 1.43 | 1.14 | 1.05 | 1.18 | 1.50 | 1.93 | 2.37 | 2.70 | 2.84 | 2.74 | 2.43 | 2.01 | 1.57 | 1.24 | 1.09 | 1.18 | 1.49 | 1.95 | 2.45 |
| 10 SEG | 2.88 | 3.11 | 3.08 | 2.80 | 2.32 | 1.77 | 1.27 | 0.94 | 0.87 | 1.06 | 1.47 | 1.99 | 2.50 | 2.87 | 2.98 | 2.82 | 2.43 | 1.91 | 1.41 | 1.05 | 0.94 | 1.11 | 1.52 | 2.08 |
| 11 TER | 2.65 | 3.10 | 3.29 | 3.19 | 2.80 | 2.21 | 1.58 | 1.04 | 0.74 | 0.75 | 1.06 | 1.57 | 2.18 | 2.72 | 3.05 | 3.08 | 2.81 | 2.30 | 1.71 | 1.17 | 0.85 | 0.84 | 1.14 | 1.66 |
| 12 QUA | 2.30 | 2.90 | 3.31 | 3.41 | 3.18 | 2.66 | 1.98 | 1.31 | 0.81 | 0.61 | 0.75 | 1.19 | 1.81 | 2.45 | 2.96 | 3.20 | 3.09 | 2.68 | 2.07 | 1.43 | 0.93 | 0.72 | 0.84 | 1.28 |
| 13 QUI | 1.90 | 2.58 | 3.15 | 3.46 | 3.42 | 3.03 | 2.40 | 1.68 | 1.03 | 0.63 | 0.58 | 0.89 | 1.45 | 2.12 | 2.74 | 3.16 | 3.24 | 2.98 | 2.44 | 1.77 | 1.15 | 0.75 | 0.68 | 0.97 |
| 14 SEX | 1.52 | 2.20 | 2.86 | 3.33 | 3.49 | 3.29 | 2.77 | 2.08 | 1.36 | 0.81 | 0.57 | 0.70 | 1.15 | 1.78 | 2.44 | 2.98 | 3.25 | 3.16 | 2.75 | 2.13 | 1.47 | 0.93 | 0.67 | 0.77 |
| 15 SÁB | 1.20 | 1.82 | 2.49 | 3.07 | 3.40 | 3.39 | 3.04 | 2.44 | 1.74 | 1.10 | 0.70 | 0.65 | 0.94 | 1.48 | 2.12 | 2.72 | 3.12 | 3.20 | 2.96 | 2.45 | 1.82 | 1.21 | 0.81 | 0.73 |
| 16 DOM | 0.98 | 1.49 | 2.12 | 2.73 | 3.18 | 3.34 | 3.17 | 2.72 | 2.10 | 1.46 | 0.96 | 0.74 | 0.86 | 1.26 | 1.82 | 2.41 | 2.88 | 3.11 | 3.04 | 2.68 | 2.14 | 1.55 | 1.07 | 0.83 |
| 17 SEG | 0.90 | 1.26 | 1.80 | 2.38 | 2.87 | 3.16 | 3.16 | 2.87 | 2.38 | 1.80 | 1.28 | 0.95 | 0.90 | 1.14 | 1.58 | 2.10 | 2.59 | 2.91 | 2.99 | 2.80 | 2.39 | 1.88 | 1.39 | 1.05 |
| 18 TER | 0.97 | 1.16 | 1.55 | 2.05 | 2.53 | 2.88 | 3.02 | 2.90 | 2.56 | 2.10 | 1.61 | 1.23 | 1.06 | 1.14 | 1.43 | 1.85 | 2.29 | 2.64 | 2.83 | 2.79 | 2.55 | 2.16 | 1.72 | 1.35 |
| 19 QUA | 1.15 | 1.18 | 1.42 | 1.79 | 2.20 | 2.56 | 2.78 | 2.80 | 2.63 | 2.30 | 1.91 | 1.54 | 1.30 | 1.25 | 1.39 | 1.67 | 2.01 | 2.35 | 2.59 | 2.68 | 2.59 | 2.35 | 2.02 | 1.68 |
| 20 QUI | 1.43 | 1.33 | 1.41 | 1.63 | 1.93 | 2.24 | 2.49 | 2.61 | 2.58 | 2.41 | 2.14 | 1.84 | 1.58 | 1.44 | 1.44 | 1.57 | 1.80 | 2.06 | 2.31 | 2.48 | 2.53 | 2.45 | 2.26 | 2.00 |
| 21 SEX | 1.75 | 1.57 | 1.51 | 1.57 | 1.72 | 1.94 | 2.16 | 2.34 | 2.43 | 2.41 | 2.29 | 2.10 | 1.88 | 1.69 | 1.58 | 1.57 | 1.65 | 1.81 | 2.01 | 2.21 | 2.37 | 2.44 | 2.41 | 2.29 |
| 22 SÁB | 2.09 | 1.88 | 1.71 | 1.61 | 1.61 | 1.68 | 1.83 | 2.01 | 2.19 | 2.31 | 2.35 | 2.30 | 2.17 | 2.00 | 1.82 | 1.67 | 1.60 | 1.61 | 1.72 | 1.90 | 2.12 | 2.33 | 2.47 | 2.50 |
| 23 DOM | 2.42 | 2.24 | 2.01 | 1.78 | 1.60 | 1.51 | 1.52 | 1.65 | 1.86 | 2.09 | 2.29 | 2.42 | 2.43 | 2.32 | 2.13 | 1.88 | 1.66 | 1.50 | 1.47 | 1.57 | 1.80 | 2.10 | 2.40 | 2.62 |
| 24 SEG | 2.70 | 2.62 | 2.39 | 2.07 | 1.73 | 1.45 | 1.29 | 1.29 | 1.46 | 1.76 | 2.10 | 2.41 | 2.61 | 2.64 | 2.49 | 2.20 | 1.85 | 1.52 | 1.30 | 1.26 | 1.42 | 1.75 | 2.18 | 2.59 |
| 25 TER | 2.88 | 2.96 | 2.82 | 2.48 | 2.02 | 1.55 | 1.17 | 0.99 | 1.05 | 1.33 | 1.77 | 2.25 | 2.65 | 2.87 | 2.86 | 2.60 | 2.18 | 1.69 | 1.27 | 1.03 | 1.04 | 1.33 | 1.81 | 2.37 |
| 26 QUA | 2.87 | 3.19 | 3.22 | 2.96 | 2.46 | 1.85 | 1.26 | 0.84 | 0.70 | 0.88 | 1.32 | 1.91 | 2.50 | 2.96 | 3.15 | 3.02 | 2.61 | 2.03 | 1.43 | 0.95 | 0.75 | 0.89 | 1.33 | 1.97 |
| 27 QUI | 2.65 | 3.21 | 3.49 | 3.41 | 2.99 | 2.32 | 1.57 | 0.91 | 0.52 | 0.49 | 0.83 | 1.44 | 2.16 | 2.83 | 3.26 | 3.35 | 3.07 | 2.50 | 1.78 | 1.10 | 0.64 | 0.54 | 0.84 | 1.45 |
| 28 SEX | 2.22 | 2.97 | 3.52 | 3.71 | 3.48 | 2.89 | 2.08 | 1.25 | 0.59 | 0.29 | 0.43 | 0.93 | 1.68 | 2.48 | 3.15 | 3.50 | 3.44 | 2.99 | 2.27 | 1.46 | 0.77 | 0.40 | 0.45 | 0.91 |

Leixões

Latitude 41° 11.20' N Longitude 8° 42.27' W

Horas do Fuso: 0 (TU)

MARÇO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 01 SÁB | 1.65 | 2.51 | 3.27 | 3.75 | 3.80 | 3.42 | 2.69 | 1.79 | 0.95 | 0.37 | 0.22 | 0.52 | 1.16 | 1.98 | 2.79 | 3.39 | 3.61 | 3.38 | 2.79 | 1.98 | 1.15 | 0.53 | 0.28 | 0.49 |
| 02 DOM | 1.08 | 1.91 | 2.77 | 3.47 | 3.83 | 3.74 | 3.22 | 2.42 | 1.51 | 0.74 | 0.30 | 0.31 | 0.74 | 1.46 | 2.29 | 3.03 | 3.50 | 3.56 | 3.20 | 2.52 | 1.70 | 0.92 | 0.42 | 0.32 |
| 03 SEG | 0.66 | 1.32 | 2.14 | 2.94 | 3.53 | 3.75 | 3.53 | 2.95 | 2.14 | 1.31 | 0.67 | 0.39 | 0.54 | 1.05 | 1.76 | 2.52 | 3.14 | 3.46 | 3.39 | 2.95 | 2.26 | 1.49 | 0.83 | 0.47 |
| 04 TER | 0.50 | 0.90 | 1.55 | 2.30 | 2.98 | 3.44 | 3.53 | 3.24 | 2.66 | 1.93 | 1.23 | 0.75 | 0.62 | 0.86 | 1.36 | 2.00 | 2.63 | 3.10 | 3.29 | 3.14 | 2.69 | 2.07 | 1.42 | 0.90 |
| 05 QUA | 0.66 | 0.77 | 1.16 | 1.72 | 2.34 | 2.88 | 3.20 | 3.22 | 2.93 | 2.43 | 1.83 | 1.29 | 0.96 | 0.92 | 1.16 | 1.59 | 2.11 | 2.60 | 2.94 | 3.05 | 2.89 | 2.51 | 2.00 | 1.49 |
| 06 QUI | 1.10 | 0.94 | 1.04 | 1.35 | 1.78 | 2.25 | 2.66 | 2.89 | 2.89 | 2.67 | 2.29 | 1.85 | 1.45 | 1.23 | 1.21 | 1.39 | 1.71 | 2.09 | 2.46 | 2.72 | 2.81 | 2.72 | 2.45 | 2.07 |
| 07 SEX | 1.68 | 1.37 | 1.22 | 1.25 | 1.43 | 1.72 | 2.06 | 2.38 | 2.59 | 2.64 | 2.53 | 2.29 | 1.97 | 1.67 | 1.48 | 1.42 | 1.50 | 1.69 | 1.96 | 2.26 | 2.51 | 2.66 | 2.66 | 2.51 |
| 08 SÁB | 2.25 | 1.92 | 1.63 | 1.43 | 1.34 | 1.39 | 1.56 | 1.83 | 2.12 | 2.37 | 2.51 | 2.52 | 2.38 | 2.15 | 1.88 | 1.64 | 1.49 | 1.46 | 1.56 | 1.79 | 2.09 | 2.39 | 2.62 | 2.73 |
| 09 DOM | 2.67 | 2.46 | 2.14 | 1.80 | 1.49 | 1.29 | 1.24 | 1.36 | 1.62 | 1.96 | 2.29 | 2.53 | 2.62 | 2.54 | 2.30 | 1.99 | 1.67 | 1.43 | 1.32 | 1.40 | 1.64 | 2.00 | 2.39 | 2.72 |
| 10 SEG | 2.89 | 2.87 | 2.64 | 2.26 | 1.82 | 1.41 | 1.13 | 1.06 | 1.20 | 1.52 | 1.95 | 2.37 | 2.68 | 2.79 | 2.68 | 2.38 | 1.97 | 1.56 | 1.25 | 1.14 | 1.26 | 1.59 | 2.04 | 2.52 |
| 11 TER | 2.91 | 3.09 | 3.02 | 2.71 | 2.22 | 1.68 | 1.21 | 0.92 | 0.90 | 1.13 | 1.57 | 2.09 | 2.58 | 2.89 | 2.95 | 2.74 | 2.32 | 1.81 | 1.33 | 1.03 | 0.99 | 1.21 | 1.65 | 2.21 |
| 12 QUA | 2.75 | 3.13 | 3.25 | 3.07 | 2.63 | 2.03 | 1.42 | 0.95 | 0.74 | 0.84 | 1.22 | 1.77 | 2.36 | 2.85 | 3.09 | 3.03 | 2.67 | 2.13 | 1.54 | 1.06 | 0.84 | 0.92 | 1.29 | 1.85 |
| 13 QUI | 2.48 | 3.02 | 3.33 | 3.32 | 2.98 | 2.41 | 1.73 | 1.11 | 0.72 | 0.66 | 0.93 | 1.44 | 2.09 | 2.69 | 3.11 | 3.21 | 2.98 | 2.48 | 1.84 | 1.23 | 0.82 | 0.73 | 0.98 | 1.49 |
| 14 SEX | 2.14 | 2.78 | 3.25 | 3.42 | 3.24 | 2.75 | 2.07 | 1.37 | 0.83 | 0.59 | 0.72 | 1.15 | 1.78 | 2.45 | 3.00 | 3.28 | 3.20 | 2.79 | 2.17 | 1.49 | 0.94 | 0.67 | 0.75 | 1.17 |
| 15 SÁB | 1.79 | 2.47 | 3.05 | 3.39 | 3.39 | 3.03 | 2.42 | 1.70 | 1.05 | 0.65 | 0.61 | 0.92 | 1.49 | 2.17 | 2.80 | 3.22 | 3.31 | 3.04 | 2.50 | 1.82 | 1.17 | 0.74 | 0.65 | 0.91 |
| 16 DOM | 1.45 | 2.12 | 2.76 | 3.23 | 3.40 | 3.21 | 2.71 | 2.04 | 1.36 | 0.84 | 0.63 | 0.78 | 1.24 | 1.87 | 2.52 | 3.04 | 3.29 | 3.19 | 2.77 | 2.15 | 1.48 | 0.94 | 0.68 | 0.77 |
| 17 SEG | 1.18 | 1.78 | 2.43 | 2.97 | 3.28 | 3.26 | 2.92 | 2.35 | 1.70 | 1.12 | 0.77 | 0.76 | 1.07 | 1.60 | 2.22 | 2.78 | 3.14 | 3.20 | 2.95 | 2.44 | 1.82 | 1.24 | 0.85 | 0.77 |
| 18 TER | 1.02 | 1.50 | 2.09 | 2.65 | 3.05 | 3.18 | 3.01 | 2.58 | 2.01 | 1.44 | 1.02 | 0.86 | 1.00 | 1.40 | 1.94 | 2.48 | 2.91 | 3.10 | 3.00 | 2.65 | 2.13 | 1.57 | 1.12 | 0.91 |
| 19 QUA | 0.98 | 1.31 | 1.79 | 2.31 | 2.74 | 2.99 | 2.97 | 2.70 | 2.26 | 1.76 | 1.31 | 1.06 | 1.06 | 1.30 | 1.72 | 2.19 | 2.62 | 2.89 | 2.94 | 2.74 | 2.37 | 1.90 | 1.45 | 1.15 |
| 20 QUI | 1.08 | 1.24 | 1.59 | 2.01 | 2.42 | 2.71 | 2.82 | 2.71 | 2.41 | 2.02 | 1.62 | 1.32 | 1.21 | 1.31 | 1.58 | 1.94 | 2.32 | 2.62 | 2.77 | 2.73 | 2.51 | 2.17 | 1.79 | 1.46 |
| 21 SEX | 1.28 | 1.29 | 1.48 | 1.77 | 2.10 | 2.40 | 2.58 | 2.60 | 2.46 | 2.21 | 1.90 | 1.62 | 1.43 | 1.40 | 1.53 | 1.76 | 2.04 | 2.31 | 2.53 | 2.61 | 2.55 | 2.37 | 2.10 | 1.81 |
| 22 SÁB | 1.57 | 1.46 | 1.48 | 1.62 | 1.83 | 2.06 | 2.27 | 2.40 | 2.41 | 2.31 | 2.14 | 1.92 | 1.72 | 1.59 | 1.57 | 1.65 | 1.80 | 2.01 | 2.22 | 2.40 | 2.49 | 2.47 | 2.35 | 2.16 |
| 23 DOM | 1.92 | 1.72 | 1.59 | 1.56 | 1.62 | 1.74 | 1.92 | 2.11 | 2.25 | 2.32 | 2.30 | 2.20 | 2.05 | 1.87 | 1.73 | 1.65 | 1.64 | 1.72 | 1.88 | 2.09 | 2.30 | 2.46 | 2.52 | 2.47 |
| 24 SEG | 2.31 | 2.08 | 1.84 | 1.63 | 1.50 | 1.47 | 1.55 | 1.73 | 1.97 | 2.19 | 2.36 | 2.43 | 2.38 | 2.22 | 2.00 | 1.77 | 1.59 | 1.50 | 1.54 | 1.72 | 2.00 | 2.30 | 2.56 | 2.71 |
| 25 TER | 2.69 | 2.51 | 2.21 | 1.85 | 1.52 | 1.29 | 1.21 | 1.31 | 1.57 | 1.92 | 2.27 | 2.55 | 2.67 | 2.61 | 2.38 | 2.04 | 1.68 | 1.39 | 1.25 | 1.32 | 1.58 | 1.99 | 2.43 | 2.79 |
| 26 QUA | 2.99 | 2.95 | 2.68 | 2.25 | 1.74 | 1.28 | 0.98 | 0.92 | 1.11 | 1.51 | 2.01 | 2.49 | 2.84 | 2.96 | 2.82 | 2.45 | 1.96 | 1.46 | 1.09 | 0.96 | 1.12 | 1.53 | 2.09 | 2.66 |
| 27 QUI | 3.11 | 3.30 | 3.18 | 2.77 | 2.16 | 1.51 | 0.95 | 0.65 | 0.67 | 1.01 | 1.57 | 2.23 | 2.81 | 3.17 | 3.22 | 2.93 | 2.40 | 1.74 | 1.14 | 0.75 | 0.70 | 1.00 | 1.58 | 2.29 |
| 28 SEX | 2.97 | 3.44 | 3.57 | 3.31 | 2.73 | 1.96 | 1.19 | 0.61 | 0.38 | 0.54 | 1.05 | 1.78 | 2.54 | 3.16 | 3.46 | 3.37 | 2.92 | 2.21 | 1.43 | 0.79 | 0.45 | 0.53 | 1.00 | 1.73 |
| 29 SÁB | 2.56 | 3.28 | 3.71 | 3.72 | 3.31 | 2.57 | 1.69 | 0.88 | 0.34 | 0.24 | 0.57 | 1.24 | 2.08 | 2.88 | 3.46 | 3.64 | 3.39 | 2.77 | 1.93 | 1.10 | 0.48 | 0.26 | 0.49 | 1.11 |
| 30 DOM | 1.96 | 2.83 | 3.52 | 3.86 | 3.73 | 3.17 | 2.32 | 1.40 | 0.63 | 0.21 | 0.27 | 0.75 | 1.53 | 2.40 | 3.17 | 3.64 | 3.67 | 3.26 | 2.52 | 1.63 | 0.82 | 0.30 | 0.22 | 0.59 |
| 31 SEG | 1.31 | 2.19 | 3.03 | 3.64 | 3.84 | 3.58 | 2.92 | 2.05 | 1.17 | 0.51 | 0.25 | 0.46 | 1.04 | 1.84 | 2.68 | 3.35 | 3.67 | 3.55 | 3.03 | 2.25 | 1.39 | 0.66 | 0.27 | 0.33 |

Leixões

Latitude 41° 11.20' N Longitude 8° 42.27' W

Horas do Fuso: 0 (TU)

ABRIL 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 TER | 0.80 | 1.53 | 2.37 | 3.12 | 3.60 | 3.67 | 3.31 | 2.64 | 1.82 | 1.05 | 0.54 | 0.44 | 0.75 | 1.37 | 2.12 | 2.84 | 3.37 | 3.55 | 3.33 | 2.77 | 2.02 | 1.25 | 0.66 | 0.41 |
| 02 QUA | 0.56 | 1.04 | 1.72 | 2.45 | 3.07 | 3.41 | 3.38 | 3.00 | 2.38 | 1.68 | 1.06 | 0.72 | 0.74 | 1.08 | 1.64 | 2.28 | 2.87 | 3.25 | 3.32 | 3.06 | 2.55 | 1.90 | 1.26 | 0.81 |
| 03 QUI | 0.66 | 0.84 | 1.26 | 1.82 | 2.41 | 2.88 | 3.11 | 3.05 | 2.71 | 2.21 | 1.66 | 1.21 | 0.99 | 1.06 | 1.36 | 1.81 | 2.32 | 2.76 | 3.04 | 3.06 | 2.83 | 2.42 | 1.90 | 1.41 |
| 04 SEX | 1.07 | 0.96 | 1.09 | 1.40 | 1.82 | 2.26 | 2.62 | 2.79 | 2.75 | 2.51 | 2.15 | 1.75 | 1.43 | 1.28 | 1.32 | 1.53 | 1.85 | 2.23 | 2.57 | 2.79 | 2.83 | 2.70 | 2.41 | 2.02 |
| 05 SAB | 1.64 | 1.35 | 1.23 | 1.26 | 1.43 | 1.72 | 2.05 | 2.34 | 2.52 | 2.55 | 2.44 | 2.20 | 1.91 | 1.66 | 1.50 | 1.48 | 1.57 | 1.78 | 2.06 | 2.36 | 2.59 | 2.71 | 2.68 | 2.50 |
| 06 DOM | 2.21 | 1.88 | 1.58 | 1.38 | 1.30 | 1.36 | 1.56 | 1.83 | 2.13 | 2.37 | 2.49 | 2.48 | 2.33 | 2.09 | 1.83 | 1.61 | 1.49 | 1.50 | 1.64 | 1.89 | 2.20 | 2.49 | 2.70 | 2.76 |
| 07 SEG | 2.65 | 2.39 | 2.05 | 1.69 | 1.40 | 1.23 | 1.23 | 1.40 | 1.69 | 2.04 | 2.36 | 2.57 | 2.61 | 2.48 | 2.21 | 1.89 | 1.59 | 1.39 | 1.35 | 1.49 | 1.78 | 2.15 | 2.52 | 2.80 |
| 08 TER | 2.90 | 2.79 | 2.50 | 2.09 | 1.65 | 1.28 | 1.08 | 1.10 | 1.31 | 1.68 | 2.11 | 2.50 | 2.73 | 2.76 | 2.57 | 2.23 | 1.81 | 1.44 | 1.21 | 1.20 | 1.40 | 1.77 | 2.23 | 2.67 |
| 09 QUA | 2.96 | 3.04 | 2.86 | 2.48 | 1.97 | 1.47 | 1.09 | 0.93 | 1.02 | 1.34 | 1.82 | 2.32 | 2.73 | 2.93 | 2.87 | 2.57 | 2.11 | 1.61 | 1.22 | 1.03 | 1.10 | 1.41 | 1.89 | 2.42 |
| 10 QUI | 2.87 | 3.13 | 3.11 | 2.82 | 2.32 | 1.73 | 1.21 | 0.88 | 0.83 | 1.06 | 1.52 | 2.08 | 2.61 | 2.98 | 3.07 | 2.87 | 2.43 | 1.87 | 1.34 | 0.98 | 0.90 | 1.11 | 1.55 | 2.12 |
| 11 SEX | 2.68 | 3.09 | 3.24 | 3.08 | 2.64 | 2.04 | 1.42 | 0.94 | 0.73 | 0.84 | 1.24 | 1.81 | 2.42 | 2.92 | 3.18 | 3.11 | 2.75 | 2.18 | 1.56 | 1.06 | 0.81 | 0.87 | 1.23 | 1.79 |
| 12 SAB | 2.40 | 2.94 | 3.25 | 3.24 | 2.92 | 2.36 | 1.70 | 1.10 | 0.74 | 0.70 | 0.99 | 1.53 | 2.17 | 2.77 | 3.17 | 3.26 | 3.02 | 2.51 | 1.86 | 1.24 | 0.83 | 0.73 | 0.96 | 1.46 |
| 13 DOM | 2.08 | 2.69 | 3.14 | 3.30 | 3.13 | 2.66 | 2.02 | 1.36 | 0.86 | 0.67 | 0.82 | 1.26 | 1.89 | 2.53 | 3.05 | 3.30 | 3.21 | 2.80 | 2.19 | 1.52 | 0.98 | 0.71 | 0.78 | 1.16 |
| 14 SEG | 1.75 | 2.38 | 2.93 | 3.24 | 3.23 | 2.89 | 2.33 | 1.67 | 1.09 | 0.75 | 0.74 | 1.05 | 1.61 | 2.25 | 2.84 | 3.22 | 3.29 | 3.03 | 2.50 | 1.85 | 1.24 | 0.82 | 0.72 | 0.95 |
| 15 TER | 1.44 | 2.04 | 2.63 | 3.05 | 3.20 | 3.03 | 2.59 | 2.00 | 1.39 | 0.95 | 0.78 | 0.94 | 1.37 | 1.95 | 2.55 | 3.02 | 3.24 | 3.14 | 2.75 | 2.18 | 1.56 | 1.05 | 0.80 | 0.86 |
| 16 QUA | 1.20 | 1.72 | 2.29 | 2.78 | 3.06 | 3.05 | 2.76 | 2.28 | 1.72 | 1.22 | 0.93 | 0.93 | 1.22 | 1.70 | 2.25 | 2.75 | 3.07 | 3.13 | 2.91 | 2.46 | 1.90 | 1.37 | 1.00 | 0.90 |
| 17 QUI | 1.08 | 1.47 | 1.97 | 2.46 | 2.81 | 2.95 | 2.82 | 2.48 | 2.01 | 1.53 | 1.18 | 1.04 | 1.17 | 1.51 | 1.97 | 2.44 | 2.82 | 3.00 | 2.94 | 2.65 | 2.21 | 1.72 | 1.30 | 1.07 |
| 18 SEX | 1.08 | 1.32 | 1.70 | 2.13 | 2.51 | 2.74 | 2.76 | 2.57 | 2.24 | 1.83 | 1.47 | 1.24 | 1.22 | 1.41 | 1.74 | 2.14 | 2.51 | 2.78 | 2.86 | 2.74 | 2.44 | 2.05 | 1.65 | 1.34 |
| 19 SAB | 1.21 | 1.28 | 1.51 | 1.83 | 2.17 | 2.45 | 2.60 | 2.57 | 2.38 | 2.09 | 1.78 | 1.51 | 1.38 | 1.41 | 1.60 | 1.87 | 2.19 | 2.48 | 2.67 | 2.71 | 2.59 | 2.34 | 2.01 | 1.68 |
| 20 DOM | 1.45 | 1.36 | 1.42 | 1.60 | 1.85 | 2.12 | 2.34 | 2.45 | 2.43 | 2.29 | 2.08 | 1.83 | 1.63 | 1.52 | 1.54 | 1.67 | 1.88 | 2.14 | 2.39 | 2.57 | 2.62 | 2.55 | 2.35 | 2.07 |
| 21 SEG | 1.79 | 1.56 | 1.44 | 1.44 | 1.55 | 1.75 | 1.99 | 2.21 | 2.36 | 2.40 | 2.34 | 2.17 | 1.96 | 1.75 | 1.61 | 1.56 | 1.62 | 1.78 | 2.02 | 2.29 | 2.52 | 2.64 | 2.63 | 2.47 |
| 22 TER | 2.21 | 1.89 | 1.61 | 1.41 | 1.33 | 1.39 | 1.58 | 1.86 | 2.14 | 2.38 | 2.50 | 2.49 | 2.34 | 2.10 | 1.82 | 1.59 | 1.45 | 1.45 | 1.61 | 1.90 | 2.25 | 2.56 | 2.77 | 2.81 |
| 23 QUA | 2.66 | 2.35 | 1.95 | 1.56 | 1.26 | 1.11 | 1.17 | 1.41 | 1.78 | 2.18 | 2.52 | 2.72 | 2.72 | 2.53 | 2.19 | 1.79 | 1.44 | 1.23 | 1.22 | 1.44 | 1.82 | 2.29 | 2.72 | 3.00 |
| 24 QUI | 3.05 | 2.85 | 2.44 | 1.91 | 1.40 | 1.01 | 0.85 | 0.96 | 1.31 | 1.81 | 2.34 | 2.77 | 3.00 | 2.96 | 2.66 | 2.18 | 1.64 | 1.19 | 0.94 | 0.98 | 1.30 | 1.83 | 2.42 | 2.95 |
| 25 SEX | 3.27 | 3.29 | 2.99 | 2.44 | 1.77 | 1.15 | 0.72 | 0.60 | 0.82 | 1.31 | 1.95 | 2.60 | 3.08 | 3.28 | 3.14 | 2.69 | 2.06 | 1.40 | 0.88 | 0.66 | 0.79 | 1.25 | 1.91 | 2.62 |
| 26 SAB | 3.21 | 3.52 | 3.46 | 3.03 | 2.34 | 1.56 | 0.88 | 0.47 | 0.44 | 0.80 | 1.43 | 2.19 | 2.90 | 3.38 | 3.49 | 3.21 | 2.61 | 1.85 | 1.11 | 0.59 | 0.44 | 0.69 | 1.28 | 2.06 |
| 27 DOM | 2.85 | 3.44 | 3.69 | 3.51 | 2.96 | 2.16 | 1.32 | 0.64 | 0.31 | 0.41 | 0.91 | 1.66 | 2.49 | 3.19 | 3.60 | 3.59 | 3.16 | 2.44 | 1.59 | 0.83 | 0.37 | 0.32 | 0.70 | 1.40 |
| 28 SEG | 2.24 | 3.04 | 3.59 | 3.74 | 3.45 | 2.79 | 1.94 | 1.10 | 0.50 | 0.29 | 0.53 | 1.13 | 1.93 | 2.76 | 3.41 | 3.70 | 3.56 | 3.01 | 2.22 | 1.35 | 0.64 | 0.27 | 0.34 | 0.81 |
| 29 TER | 1.56 | 2.40 | 3.14 | 3.60 | 3.65 | 3.27 | 2.57 | 1.73 | 0.97 | 0.48 | 0.40 | 0.75 | 1.40 | 2.20 | 2.96 | 3.50 | 3.67 | 3.41 | 2.81 | 2.00 | 1.19 | 0.56 | 0.31 | 0.47 |
| 30 QUA | 0.98 | 1.71 | 2.49 | 3.14 | 3.49 | 3.45 | 3.02 | 2.35 | 1.59 | 0.94 | 0.59 | 0.63 | 1.03 | 1.66 | 2.39 | 3.04 | 3.46 | 3.52 | 3.20 | 2.60 | 1.85 | 1.13 | 0.63 | 0.47 |

Leixões

Latitude 41° 11.20' N Longitude 8° 42.27' W

Horas do Fuso: 0 (TU)

MAIO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 01 QUI | 0.67 | 1.17 | 1.82 | 2.50 | 3.03 | 3.28 | 3.18 | 2.77 | 2.17 | 1.53 | 1.02 | 0.79 | 0.90 | 1.29 | 1.86 | 2.47 | 3.01 | 3.31 | 3.30 | 2.99 | 2.45 | 1.80 | 1.20 | 0.80 |
| 02 SEX | 0.70 | 0.90 | 1.32 | 1.87 | 2.42 | 2.84 | 3.01 | 2.90 | 2.56 | 2.07 | 1.56 | 1.18 | 1.03 | 1.16 | 1.49 | 1.95 | 2.45 | 2.88 | 3.10 | 3.08 | 2.82 | 2.37 | 1.84 | 1.35 |
| 03 SÁB | 1.03 | 0.95 | 1.09 | 1.42 | 1.84 | 2.28 | 2.61 | 2.76 | 2.69 | 2.43 | 2.06 | 1.66 | 1.37 | 1.26 | 1.35 | 1.59 | 1.95 | 2.35 | 2.69 | 2.89 | 2.90 | 2.72 | 2.38 | 1.95 |
| 04 DOM | 1.54 | 1.26 | 1.15 | 1.21 | 1.43 | 1.76 | 2.12 | 2.41 | 2.57 | 2.56 | 2.40 | 2.12 | 1.80 | 1.55 | 1.42 | 1.44 | 1.60 | 1.88 | 2.21 | 2.52 | 2.74 | 2.80 | 2.70 | 2.44 |
| 05 SEG | 2.08 | 1.72 | 1.42 | 1.26 | 1.25 | 1.39 | 1.66 | 1.98 | 2.28 | 2.48 | 2.54 | 2.44 | 2.22 | 1.93 | 1.66 | 1.48 | 1.44 | 1.54 | 1.77 | 2.09 | 2.41 | 2.67 | 2.79 | 2.74 |
| 06 TER | 2.52 | 2.18 | 1.81 | 1.47 | 1.26 | 1.21 | 1.33 | 1.59 | 1.93 | 2.27 | 2.52 | 2.61 | 2.53 | 2.31 | 1.99 | 1.68 | 1.44 | 1.36 | 1.45 | 1.69 | 2.02 | 2.39 | 2.69 | 2.84 |
| 07 QUA | 2.80 | 2.57 | 2.21 | 1.79 | 1.41 | 1.18 | 1.13 | 1.28 | 1.59 | 1.98 | 2.37 | 2.64 | 2.73 | 2.62 | 2.34 | 1.96 | 1.59 | 1.33 | 1.25 | 1.37 | 1.66 | 2.05 | 2.46 | 2.78 |
| 08 QUI | 2.92 | 2.84 | 2.55 | 2.12 | 1.66 | 1.27 | 1.05 | 1.07 | 1.30 | 1.69 | 2.15 | 2.56 | 2.82 | 2.85 | 2.65 | 2.28 | 1.83 | 1.42 | 1.17 | 1.15 | 1.35 | 1.72 | 2.18 | 2.61 |
| 09 SEX | 2.91 | 2.99 | 2.82 | 2.44 | 1.94 | 1.44 | 1.08 | 0.95 | 1.07 | 1.41 | 1.89 | 2.40 | 2.80 | 2.99 | 2.91 | 2.60 | 2.12 | 1.61 | 1.21 | 1.03 | 1.10 | 1.40 | 1.86 | 2.37 |
| 10 SÁB | 2.80 | 3.03 | 3.00 | 2.72 | 2.24 | 1.69 | 1.20 | 0.91 | 0.90 | 1.16 | 1.62 | 2.18 | 2.69 | 3.02 | 3.09 | 2.88 | 2.44 | 1.88 | 1.36 | 1.01 | 0.93 | 1.13 | 1.54 | 2.07 |
| 11 DOM | 2.59 | 2.97 | 3.10 | 2.94 | 2.53 | 1.98 | 1.41 | 0.99 | 0.82 | 0.96 | 1.35 | 1.91 | 2.49 | 2.96 | 3.18 | 3.11 | 2.75 | 2.20 | 1.60 | 1.11 | 0.86 | 0.91 | 1.24 | 1.74 |
| 12 SEG | 2.31 | 2.80 | 3.08 | 3.08 | 2.79 | 2.29 | 1.69 | 1.17 | 0.85 | 0.84 | 1.12 | 1.62 | 2.23 | 2.78 | 3.15 | 3.24 | 3.01 | 2.52 | 1.91 | 1.33 | 0.92 | 0.80 | 0.99 | 1.42 |
| 13 TER | 1.98 | 2.53 | 2.95 | 3.11 | 2.97 | 2.57 | 2.01 | 1.43 | 1.00 | 0.82 | 0.96 | 1.36 | 1.93 | 2.53 | 3.01 | 3.25 | 3.18 | 2.81 | 2.25 | 1.63 | 1.11 | 0.82 | 0.84 | 1.15 |
| 14 QUA | 1.64 | 2.21 | 2.71 | 3.01 | 3.04 | 2.79 | 2.31 | 1.75 | 1.24 | 0.93 | 0.90 | 1.16 | 1.64 | 2.22 | 2.76 | 3.13 | 3.23 | 3.02 | 2.57 | 1.98 | 1.41 | 0.98 | 0.83 | 0.97 |
| 15 QUI | 1.35 | 1.87 | 2.40 | 2.81 | 2.99 | 2.90 | 2.56 | 2.07 | 1.55 | 1.14 | 0.96 | 1.06 | 1.41 | 1.91 | 2.45 | 2.90 | 3.14 | 3.11 | 2.81 | 2.32 | 1.76 | 1.26 | 0.95 | 0.92 |
| 16 SEX | 1.15 | 1.56 | 2.06 | 2.51 | 2.82 | 2.89 | 2.71 | 2.33 | 1.86 | 1.42 | 1.13 | 1.07 | 1.26 | 1.64 | 2.12 | 2.59 | 2.94 | 3.08 | 2.95 | 2.60 | 2.12 | 1.61 | 1.20 | 1.01 |
| 17 SÁB | 1.06 | 1.33 | 1.74 | 2.18 | 2.55 | 2.76 | 2.75 | 2.52 | 2.16 | 1.74 | 1.38 | 1.19 | 1.22 | 1.45 | 1.82 | 2.25 | 2.65 | 2.91 | 2.96 | 2.79 | 2.44 | 1.99 | 1.55 | 1.22 |
| 18 DOM | 1.10 | 1.20 | 1.47 | 1.84 | 2.22 | 2.52 | 2.67 | 2.61 | 2.39 | 2.06 | 1.70 | 1.41 | 1.29 | 1.35 | 1.58 | 1.92 | 2.30 | 2.64 | 2.85 | 2.86 | 2.68 | 2.35 | 1.94 | 1.55 |
| 19 SEG | 1.28 | 1.19 | 1.28 | 1.53 | 1.85 | 2.19 | 2.46 | 2.58 | 2.54 | 2.34 | 2.05 | 1.73 | 1.48 | 1.37 | 1.42 | 1.62 | 1.92 | 2.28 | 2.59 | 2.79 | 2.81 | 2.66 | 2.35 | 1.97 |
| 20 TER | 1.59 | 1.33 | 1.22 | 1.28 | 1.49 | 1.80 | 2.14 | 2.41 | 2.55 | 2.55 | 2.39 | 2.11 | 1.80 | 1.54 | 1.40 | 1.41 | 1.57 | 1.86 | 2.22 | 2.55 | 2.78 | 2.84 | 2.71 | 2.42 |
| 21 QUA | 2.02 | 1.63 | 1.32 | 1.17 | 1.20 | 1.40 | 1.72 | 2.09 | 2.41 | 2.61 | 2.65 | 2.50 | 2.22 | 1.87 | 1.55 | 1.35 | 1.31 | 1.46 | 1.76 | 2.16 | 2.55 | 2.83 | 2.94 | 2.83 |
| 22 QUI | 2.52 | 2.08 | 1.62 | 1.25 | 1.04 | 1.05 | 1.27 | 1.65 | 2.09 | 2.49 | 2.76 | 2.82 | 2.66 | 2.32 | 1.89 | 1.49 | 1.21 | 1.14 | 1.30 | 1.66 | 2.13 | 2.60 | 2.95 | 3.10 |
| 23 SEX | 2.97 | 2.61 | 2.10 | 1.56 | 1.11 | 0.87 | 0.89 | 1.17 | 1.63 | 2.17 | 2.65 | 2.96 | 3.02 | 2.80 | 2.38 | 1.85 | 1.35 | 1.01 | 0.94 | 1.14 | 1.58 | 2.14 | 2.70 | 3.11 |
| 24 SÁB | 3.26 | 3.10 | 2.67 | 2.06 | 1.43 | 0.93 | 0.69 | 0.76 | 1.13 | 1.69 | 2.32 | 2.87 | 3.19 | 3.21 | 2.90 | 2.37 | 1.73 | 1.15 | 0.79 | 0.74 | 1.02 | 1.55 | 2.20 | 2.83 |
| 25 DOM | 3.27 | 3.40 | 3.18 | 2.66 | 1.97 | 1.28 | 0.76 | 0.55 | 0.71 | 1.17 | 1.83 | 2.53 | 3.11 | 3.40 | 3.34 | 2.93 | 2.29 | 1.56 | 0.94 | 0.58 | 0.59 | 0.95 | 1.56 | 2.29 |
| 26 SEG | 2.96 | 3.39 | 3.48 | 3.18 | 2.58 | 1.83 | 1.12 | 0.63 | 0.49 | 0.74 | 1.29 | 2.02 | 2.76 | 3.32 | 3.55 | 3.39 | 2.89 | 2.16 | 1.38 | 0.75 | 0.44 | 0.51 | 0.95 | 1.63 |
| 27 TER | 2.39 | 3.05 | 3.45 | 3.47 | 3.10 | 2.45 | 1.69 | 1.00 | 0.57 | 0.52 | 0.86 | 1.48 | 2.23 | 2.95 | 3.46 | 3.61 | 3.36 | 2.78 | 2.00 | 1.22 | 0.63 | 0.38 | 0.53 | 1.01 |
| 28 QUA | 1.72 | 2.47 | 3.10 | 3.43 | 3.38 | 2.96 | 2.30 | 1.55 | 0.93 | 0.59 | 0.63 | 1.03 | 1.68 | 2.42 | 3.09 | 3.51 | 3.58 | 3.25 | 2.63 | 1.86 | 1.12 | 0.59 | 0.41 | 0.62 |
| 29 QUI | 1.12 | 1.81 | 2.52 | 3.08 | 3.34 | 3.23 | 2.79 | 2.14 | 1.46 | 0.92 | 0.68 | 0.80 | 1.23 | 1.86 | 2.55 | 3.14 | 3.48 | 3.46 | 3.11 | 2.49 | 1.76 | 1.09 | 0.64 | 0.53 |
| 30 SEX | 0.76 | 1.26 | 1.89 | 2.53 | 3.00 | 3.18 | 3.03 | 2.60 | 2.02 | 1.42 | 0.98 | 0.83 | 0.99 | 1.42 | 2.00 | 2.61 | 3.11 | 3.37 | 3.30 | 2.94 | 2.37 | 1.71 | 1.13 | 0.76 |
| 31 SÁB | 0.71 | 0.94 | 1.39 | 1.95 | 2.49 | 2.87 | 2.99 | 2.83 | 2.45 | 1.94 | 1.43 | 1.09 | 1.00 | 1.18 | 1.57 | 2.08 | 2.60 | 3.02 | 3.21 | 3.13 | 2.80 | 2.29 | 1.71 | 1.22 |

Leixões

Latitude 41° 11.20' N Longitude 8° 42.27' W

Horas do Fuso: 0 (TU)

JUNHO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 DOM | 0.93 | 0.90 | 1.10 | 1.49 | 1.97 | 2.42 | 2.73 | 2.82 | 2.67 | 2.34 | 1.90 | 1.49 | 1.22 | 1.16 | 1.32 | 1.66 | 2.10 | 2.54 | 2.89 | 3.04 | 2.97 | 2.68 | 2.24 | 1.76 |
| 02 SEG | 1.34 | 1.09 | 1.06 | 1.23 | 1.56 | 1.96 | 2.34 | 2.60 | 2.68 | 2.56 | 2.28 | 1.92 | 1.57 | 1.34 | 1.29 | 1.42 | 1.70 | 2.08 | 2.46 | 2.76 | 2.90 | 2.84 | 2.60 | 2.23 |
| 03 TER | 1.81 | 1.44 | 1.22 | 1.18 | 1.31 | 1.59 | 1.94 | 2.28 | 2.52 | 2.60 | 2.52 | 2.28 | 1.96 | 1.65 | 1.43 | 1.36 | 1.46 | 1.70 | 2.03 | 2.38 | 2.66 | 2.80 | 2.77 | 2.56 |
| 04 QUA | 2.23 | 1.84 | 1.50 | 1.28 | 1.23 | 1.35 | 1.60 | 1.93 | 2.26 | 2.50 | 2.60 | 2.53 | 2.31 | 2.00 | 1.69 | 1.46 | 1.38 | 1.46 | 1.68 | 2.00 | 2.33 | 2.61 | 2.76 | 2.73 |
| 05 QUI | 2.53 | 2.21 | 1.83 | 1.49 | 1.27 | 1.23 | 1.35 | 1.62 | 1.97 | 2.31 | 2.56 | 2.66 | 2.57 | 2.33 | 2.01 | 1.68 | 1.43 | 1.34 | 1.43 | 1.66 | 1.99 | 2.34 | 2.62 | 2.76 |
| 06 SEX | 2.72 | 2.50 | 2.16 | 1.76 | 1.42 | 1.21 | 1.20 | 1.37 | 1.68 | 2.06 | 2.43 | 2.68 | 2.75 | 2.62 | 2.33 | 1.96 | 1.60 | 1.35 | 1.28 | 1.39 | 1.67 | 2.03 | 2.40 | 2.68 |
| 07 SÁB | 2.80 | 2.71 | 2.44 | 2.05 | 1.63 | 1.29 | 1.13 | 1.17 | 1.41 | 1.79 | 2.22 | 2.60 | 2.83 | 2.84 | 2.63 | 2.27 | 1.84 | 1.46 | 1.22 | 1.20 | 1.38 | 1.71 | 2.12 | 2.51 |
| 08 DOM | 2.78 | 2.84 | 2.68 | 2.35 | 1.90 | 1.46 | 1.15 | 1.05 | 1.19 | 1.52 | 1.97 | 2.44 | 2.80 | 2.97 | 2.89 | 2.59 | 2.14 | 1.67 | 1.28 | 1.09 | 1.14 | 1.40 | 1.81 | 2.26 |
| 09 SEG | 2.65 | 2.87 | 2.86 | 2.62 | 2.20 | 1.71 | 1.28 | 1.03 | 1.02 | 1.26 | 1.69 | 2.20 | 2.68 | 2.99 | 3.07 | 2.88 | 2.47 | 1.96 | 1.45 | 1.10 | 0.99 | 1.13 | 1.48 | 1.95 |
| 10 TER | 2.43 | 2.79 | 2.94 | 2.83 | 2.50 | 2.02 | 1.51 | 1.12 | 0.96 | 1.06 | 1.40 | 1.91 | 2.45 | 2.90 | 3.14 | 3.10 | 2.79 | 2.30 | 1.73 | 1.24 | 0.95 | 0.93 | 1.17 | 1.60 |
| 11 QUA | 2.12 | 2.59 | 2.90 | 2.96 | 2.75 | 2.33 | 1.81 | 1.32 | 1.01 | 0.95 | 1.16 | 1.60 | 2.15 | 2.69 | 3.08 | 3.21 | 3.05 | 2.64 | 2.08 | 1.50 | 1.06 | 0.86 | 0.94 | 1.28 |
| 12 QUI | 1.77 | 2.30 | 2.74 | 2.96 | 2.92 | 2.62 | 2.14 | 1.61 | 1.17 | 0.95 | 1.00 | 1.32 | 1.82 | 2.39 | 2.89 | 3.19 | 3.21 | 2.94 | 2.44 | 1.85 | 1.30 | 0.93 | 0.83 | 1.02 |
| 13 SEX | 1.43 | 1.95 | 2.47 | 2.84 | 2.97 | 2.82 | 2.45 | 1.95 | 1.44 | 1.07 | 0.95 | 1.11 | 1.51 | 2.04 | 2.59 | 3.03 | 3.23 | 3.14 | 2.78 | 2.24 | 1.64 | 1.15 | 0.87 | 0.87 |
| 14 SÁB | 1.15 | 1.60 | 2.13 | 2.59 | 2.89 | 2.92 | 2.69 | 2.27 | 1.77 | 1.31 | 1.03 | 1.01 | 1.26 | 1.70 | 2.23 | 2.74 | 3.10 | 3.20 | 3.02 | 2.60 | 2.05 | 1.48 | 1.05 | 0.87 |
| 15 DOM | 0.96 | 1.29 | 1.76 | 2.26 | 2.67 | 2.88 | 2.83 | 2.55 | 2.12 | 1.64 | 1.24 | 1.04 | 1.10 | 1.40 | 1.86 | 2.37 | 2.83 | 3.11 | 3.13 | 2.89 | 2.45 | 1.90 | 1.38 | 1.02 |
| 16 SEG | 0.91 | 1.07 | 1.42 | 1.89 | 2.35 | 2.70 | 2.84 | 2.74 | 2.44 | 2.01 | 1.56 | 1.22 | 1.09 | 1.20 | 1.52 | 1.97 | 2.46 | 2.87 | 3.09 | 3.06 | 2.78 | 2.33 | 1.80 | 1.33 |
| 17 TER | 1.03 | 0.98 | 1.16 | 1.52 | 1.96 | 2.39 | 2.70 | 2.80 | 2.67 | 2.36 | 1.95 | 1.53 | 1.23 | 1.14 | 1.27 | 1.59 | 2.03 | 2.49 | 2.86 | 3.05 | 2.99 | 2.71 | 2.27 | 1.76 |
| 18 QUA | 1.32 | 1.05 | 1.02 | 1.21 | 1.56 | 1.99 | 2.40 | 2.68 | 2.77 | 2.65 | 2.34 | 1.94 | 1.54 | 1.26 | 1.17 | 1.30 | 1.61 | 2.03 | 2.48 | 2.84 | 3.01 | 2.96 | 2.69 | 2.25 |
| 19 QUI | 1.75 | 1.33 | 1.07 | 1.03 | 1.21 | 1.56 | 1.98 | 2.39 | 2.68 | 2.79 | 2.68 | 2.38 | 1.97 | 1.57 | 1.27 | 1.17 | 1.27 | 1.57 | 1.99 | 2.44 | 2.81 | 3.00 | 2.97 | 2.70 |
| 20 SEX | 2.27 | 1.77 | 1.33 | 1.06 | 1.00 | 1.17 | 1.52 | 1.97 | 2.40 | 2.73 | 2.86 | 2.76 | 2.46 | 2.03 | 1.59 | 1.26 | 1.11 | 1.19 | 1.48 | 1.91 | 2.39 | 2.79 | 3.02 | 3.01 |
| 21 SÁB | 2.75 | 2.31 | 1.79 | 1.32 | 1.01 | 0.94 | 1.12 | 1.49 | 1.97 | 2.45 | 2.82 | 2.98 | 2.88 | 2.55 | 2.08 | 1.59 | 1.20 | 1.01 | 1.07 | 1.37 | 1.83 | 2.35 | 2.80 | 3.07 |
| 22 DOM | 3.07 | 2.81 | 2.34 | 1.78 | 1.28 | 0.94 | 0.87 | 1.06 | 1.47 | 2.01 | 2.55 | 2.96 | 3.13 | 3.01 | 2.64 | 2.11 | 1.54 | 1.09 | 0.87 | 0.93 | 1.25 | 1.76 | 2.33 | 2.83 |
| 23 SEG | 3.13 | 3.14 | 2.86 | 2.35 | 1.75 | 1.21 | 0.86 | 0.79 | 1.03 | 1.50 | 2.10 | 2.69 | 3.12 | 3.28 | 3.13 | 2.69 | 2.09 | 1.46 | 0.96 | 0.72 | 0.79 | 1.16 | 1.72 | 2.35 |
| 24 TER | 2.89 | 3.20 | 3.19 | 2.88 | 2.33 | 1.69 | 1.12 | 0.78 | 0.75 | 1.04 | 1.57 | 2.23 | 2.85 | 3.28 | 3.41 | 3.20 | 2.69 | 2.02 | 1.34 | 0.82 | 0.59 | 0.70 | 1.11 | 1.73 |
| 25 QUA | 2.39 | 2.95 | 3.25 | 3.21 | 2.85 | 2.25 | 1.59 | 1.03 | 0.72 | 0.74 | 1.10 | 1.69 | 2.38 | 3.01 | 3.42 | 3.49 | 3.21 | 2.64 | 1.91 | 1.21 | 0.70 | 0.50 | 0.67 | 1.14 |
| 26 QUI | 1.79 | 2.47 | 3.01 | 3.27 | 3.18 | 2.76 | 2.14 | 1.47 | 0.94 | 0.69 | 0.79 | 1.21 | 1.84 | 2.54 | 3.14 | 3.50 | 3.50 | 3.15 | 2.53 | 1.78 | 1.09 | 0.62 | 0.49 | 0.72 |
| 27 SEX | 1.23 | 1.89 | 2.56 | 3.05 | 3.25 | 3.09 | 2.63 | 2.00 | 1.36 | 0.88 | 0.71 | 0.89 | 1.36 | 2.00 | 2.68 | 3.23 | 3.51 | 3.43 | 3.03 | 2.38 | 1.65 | 1.01 | 0.61 | 0.56 |
| 28 SÁB | 0.84 | 1.37 | 2.02 | 2.64 | 3.06 | 3.16 | 2.94 | 2.46 | 1.85 | 1.26 | 0.87 | 0.79 | 1.03 | 1.53 | 2.15 | 2.78 | 3.25 | 3.44 | 3.30 | 2.86 | 2.22 | 1.54 | 0.97 | 0.67 |
| 29 DOM | 0.70 | 1.03 | 1.55 | 2.15 | 2.69 | 3.01 | 3.03 | 2.77 | 2.29 | 1.72 | 1.21 | 0.92 | 0.92 | 1.21 | 1.70 | 2.28 | 2.83 | 3.21 | 3.31 | 3.11 | 2.66 | 2.07 | 1.46 | 1.00 |
| 30 SEG | 0.80 | 0.89 | 1.23 | 1.72 | 2.25 | 2.69 | 2.91 | 2.87 | 2.58 | 2.13 | 1.63 | 1.21 | 1.01 | 1.08 | 1.38 | 1.84 | 2.36 | 2.82 | 3.10 | 3.13 | 2.91 | 2.48 | 1.95 | 1.43 |

Leixões

Latitude 41° 11.20' N Longitude 8° 42.27' W

Horas do Fuso: 0 (TU)

JULHO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 01 TER | 1.08 | 0.96 | 1.09 | 1.42 | 1.86 | 2.31 | 2.65 | 2.80 | 2.71 | 2.43 | 2.02 | 1.59 | 1.27 | 1.14 | 1.24 | 1.54 | 1.95 | 2.39 | 2.76 | 2.96 | 2.94 | 2.71 | 2.32 | 1.86 |
| 02 QUA | 1.45 | 1.18 | 1.12 | 1.27 | 1.57 | 1.95 | 2.32 | 2.59 | 2.68 | 2.58 | 2.32 | 1.96 | 1.61 | 1.35 | 1.28 | 1.39 | 1.65 | 2.01 | 2.37 | 2.67 | 2.81 | 2.77 | 2.56 | 2.21 |
| 03 QUI | 1.83 | 1.49 | 1.28 | 1.26 | 1.40 | 1.67 | 2.00 | 2.31 | 2.53 | 2.60 | 2.51 | 2.27 | 1.96 | 1.66 | 1.45 | 1.38 | 1.48 | 1.71 | 2.02 | 2.33 | 2.57 | 2.69 | 2.65 | 2.45 |
| 04 SEX | 2.15 | 1.81 | 1.52 | 1.35 | 1.33 | 1.46 | 1.71 | 2.01 | 2.30 | 2.51 | 2.58 | 2.49 | 2.28 | 1.99 | 1.71 | 1.51 | 1.44 | 1.52 | 1.72 | 1.99 | 2.28 | 2.50 | 2.61 | 2.58 |
| 05 SÁB | 2.40 | 2.12 | 1.81 | 1.53 | 1.37 | 1.35 | 1.48 | 1.73 | 2.03 | 2.33 | 2.54 | 2.62 | 2.53 | 2.31 | 2.02 | 1.72 | 1.51 | 1.42 | 1.49 | 1.68 | 1.96 | 2.25 | 2.48 | 2.60 |
| 06 DOM | 2.57 | 2.39 | 2.10 | 1.78 | 1.50 | 1.33 | 1.32 | 1.48 | 1.75 | 2.09 | 2.42 | 2.64 | 2.70 | 2.60 | 2.34 | 2.01 | 1.68 | 1.44 | 1.35 | 1.42 | 1.64 | 1.94 | 2.27 | 2.52 |
| 07 SEG | 2.64 | 2.59 | 2.38 | 2.06 | 1.71 | 1.41 | 1.25 | 1.28 | 1.48 | 1.81 | 2.21 | 2.56 | 2.78 | 2.82 | 2.66 | 2.34 | 1.94 | 1.56 | 1.31 | 1.23 | 1.34 | 1.61 | 1.98 | 2.34 |
| 08 TER | 2.61 | 2.72 | 2.63 | 2.37 | 1.99 | 1.59 | 1.29 | 1.16 | 1.24 | 1.52 | 1.93 | 2.38 | 2.75 | 2.95 | 2.92 | 2.67 | 2.27 | 1.80 | 1.39 | 1.14 | 1.10 | 1.28 | 1.63 | 2.07 |
| 09 QUA | 2.47 | 2.74 | 2.81 | 2.65 | 2.30 | 1.86 | 1.44 | 1.14 | 1.07 | 1.24 | 1.61 | 2.10 | 2.59 | 2.95 | 3.10 | 2.98 | 2.63 | 2.13 | 1.60 | 1.18 | 0.96 | 1.00 | 1.28 | 1.72 |
| 10 QUI | 2.22 | 2.64 | 2.88 | 2.87 | 2.62 | 2.19 | 1.69 | 1.26 | 1.01 | 1.02 | 1.29 | 1.77 | 2.32 | 2.82 | 3.15 | 3.20 | 2.97 | 2.51 | 1.93 | 1.37 | 0.96 | 0.82 | 0.97 | 1.35 |
| 11 SEX | 1.88 | 2.41 | 2.82 | 2.99 | 2.89 | 2.53 | 2.02 | 1.49 | 1.08 | 0.90 | 1.02 | 1.41 | 1.96 | 2.56 | 3.04 | 3.30 | 3.24 | 2.89 | 2.33 | 1.69 | 1.13 | 0.79 | 0.75 | 1.01 |
| 12 SÁB | 1.49 | 2.08 | 2.61 | 2.97 | 3.05 | 2.84 | 2.38 | 1.82 | 1.28 | 0.92 | 0.85 | 1.09 | 1.58 | 2.19 | 2.79 | 3.22 | 3.38 | 3.21 | 2.75 | 2.11 | 1.45 | 0.93 | 0.68 | 0.76 |
| 13 DOM | 1.13 | 1.69 | 2.29 | 2.80 | 3.07 | 3.04 | 2.72 | 2.20 | 1.60 | 1.10 | 0.83 | 0.87 | 1.21 | 1.77 | 2.41 | 2.98 | 3.34 | 3.39 | 3.10 | 2.56 | 1.89 | 1.24 | 0.79 | 0.66 |
| 14 SEG | 0.85 | 1.30 | 1.90 | 2.49 | 2.93 | 3.11 | 2.97 | 2.56 | 2.00 | 1.42 | 0.97 | 0.80 | 0.95 | 1.37 | 1.97 | 2.59 | 3.11 | 3.38 | 3.32 | 2.95 | 2.36 | 1.69 | 1.09 | 0.74 |
| 15 TER | 0.71 | 0.99 | 1.49 | 2.09 | 2.63 | 2.99 | 3.07 | 2.85 | 2.40 | 1.82 | 1.28 | 0.91 | 0.84 | 1.07 | 1.54 | 2.13 | 2.72 | 3.17 | 3.34 | 3.20 | 2.78 | 2.18 | 1.54 | 1.02 |
| 16 QUA | 0.77 | 0.83 | 1.16 | 1.66 | 2.22 | 2.71 | 2.99 | 2.99 | 2.72 | 2.25 | 1.70 | 1.22 | 0.93 | 0.93 | 1.20 | 1.67 | 2.24 | 2.77 | 3.14 | 3.25 | 3.06 | 2.63 | 2.05 | 1.47 |
| 17 QUI | 1.03 | 0.85 | 0.96 | 1.30 | 1.78 | 2.29 | 2.71 | 2.93 | 2.89 | 2.61 | 2.17 | 1.66 | 1.23 | 1.01 | 1.04 | 1.31 | 1.75 | 2.26 | 2.74 | 3.05 | 3.12 | 2.92 | 2.52 | 1.99 |
| 18 SEX | 1.47 | 1.10 | 0.96 | 1.08 | 1.40 | 1.84 | 2.30 | 2.67 | 2.86 | 2.82 | 2.56 | 2.16 | 1.70 | 1.31 | 1.11 | 1.13 | 1.36 | 1.75 | 2.21 | 2.64 | 2.92 | 2.99 | 2.83 | 2.47 |
| 19 SÁB | 1.99 | 1.53 | 1.19 | 1.06 | 1.15 | 1.43 | 1.82 | 2.25 | 2.61 | 2.81 | 2.81 | 2.59 | 2.22 | 1.79 | 1.41 | 1.19 | 1.16 | 1.34 | 1.67 | 2.09 | 2.50 | 2.80 | 2.91 | 2.80 |
| 20 DOM | 2.49 | 2.06 | 1.62 | 1.28 | 1.12 | 1.16 | 1.40 | 1.77 | 2.20 | 2.58 | 2.82 | 2.86 | 2.69 | 2.34 | 1.91 | 1.50 | 1.22 | 1.12 | 1.24 | 1.53 | 1.94 | 2.37 | 2.71 | 2.88 |
| 21 SEG | 2.82 | 2.56 | 2.14 | 1.69 | 1.32 | 1.11 | 1.11 | 1.33 | 1.71 | 2.17 | 2.60 | 2.90 | 2.99 | 2.84 | 2.48 | 2.01 | 1.53 | 1.17 | 1.01 | 1.08 | 1.37 | 1.80 | 2.29 | 2.69 |
| 22 TER | 2.92 | 2.90 | 2.64 | 2.21 | 1.72 | 1.29 | 1.04 | 1.02 | 1.25 | 1.67 | 2.20 | 2.70 | 3.05 | 3.16 | 2.99 | 2.58 | 2.04 | 1.49 | 1.06 | 0.85 | 0.92 | 1.24 | 1.73 | 2.28 |
| 23 QUA | 2.75 | 3.01 | 3.00 | 2.71 | 2.23 | 1.68 | 1.20 | 0.92 | 0.92 | 1.21 | 1.70 | 2.30 | 2.85 | 3.23 | 3.32 | 3.10 | 2.62 | 1.99 | 1.37 | 0.89 | 0.68 | 0.79 | 1.18 | 1.75 |
| 24 QUI | 2.36 | 2.86 | 3.12 | 3.07 | 2.71 | 2.16 | 1.56 | 1.06 | 0.80 | 0.86 | 1.22 | 1.80 | 2.46 | 3.04 | 3.40 | 3.43 | 3.13 | 2.56 | 1.86 | 1.19 | 0.72 | 0.56 | 0.75 | 1.22 |
| 25 SEX | 1.86 | 2.51 | 3.01 | 3.21 | 3.07 | 2.64 | 2.02 | 1.38 | 0.90 | 0.71 | 0.86 | 1.32 | 1.97 | 2.65 | 3.22 | 3.52 | 3.46 | 3.05 | 2.40 | 1.66 | 1.00 | 0.58 | 0.53 | 0.82 |
| 26 SÁB | 1.37 | 2.05 | 2.69 | 3.13 | 3.24 | 2.99 | 2.47 | 1.82 | 1.19 | 0.77 | 0.69 | 0.95 | 1.49 | 2.18 | 2.85 | 3.36 | 3.55 | 3.38 | 2.88 | 2.18 | 1.44 | 0.84 | 0.54 | 0.61 |
| 27 DOM | 1.00 | 1.60 | 2.28 | 2.86 | 3.19 | 3.17 | 2.83 | 2.25 | 1.59 | 1.03 | 0.72 | 0.76 | 1.12 | 1.71 | 2.39 | 3.01 | 3.41 | 3.48 | 3.19 | 2.64 | 1.93 | 1.25 | 0.76 | 0.60 |
| 28 SEG | 0.79 | 1.25 | 1.87 | 2.49 | 2.97 | 3.16 | 3.02 | 2.60 | 2.01 | 1.40 | 0.93 | 0.76 | 0.91 | 1.35 | 1.95 | 2.58 | 3.09 | 3.36 | 3.30 | 2.94 | 2.36 | 1.70 | 1.13 | 0.78 |
| 29 TER | 0.76 | 1.04 | 1.54 | 2.11 | 2.64 | 2.98 | 3.04 | 2.81 | 2.35 | 1.79 | 1.27 | 0.93 | 0.89 | 1.14 | 1.60 | 2.16 | 2.69 | 3.08 | 3.21 | 3.06 | 2.66 | 2.11 | 1.54 | 1.09 |
| 30 QUA | 0.90 | 0.99 | 1.32 | 1.79 | 2.29 | 2.70 | 2.91 | 2.86 | 2.58 | 2.13 | 1.64 | 1.23 | 1.03 | 1.09 | 1.38 | 1.82 | 2.30 | 2.72 | 2.98 | 3.00 | 2.79 | 2.40 | 1.91 | 1.46 |
| 31 QUI | 1.15 | 1.08 | 1.23 | 1.56 | 1.97 | 2.38 | 2.67 | 2.78 | 2.67 | 2.38 | 1.99 | 1.59 | 1.29 | 1.19 | 1.30 | 1.59 | 1.97 | 2.36 | 2.67 | 2.82 | 2.78 | 2.55 | 2.20 | 1.80 |

Leixões

Latitude 41° 11.20' N Longitude 8° 42.27' W

Horas do Fuso: 0 (TU)

AGOSTO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 SEX | 1.46 | 1.27 | 1.26 | 1.43 | 1.73 | 2.07 | 2.38 | 2.58 | 2.63 | 2.51 | 2.26 | 1.93 | 1.62 | 1.41 | 1.36 | 1.48 | 1.72 | 2.03 | 2.33 | 2.55 | 2.64 | 2.58 | 2.38 | 2.09 |
| 02 SAB | 1.78 | 1.53 | 1.40 | 1.42 | 1.56 | 1.80 | 2.08 | 2.33 | 2.49 | 2.53 | 2.43 | 2.22 | 1.96 | 1.71 | 1.54 | 1.50 | 1.58 | 1.76 | 2.00 | 2.24 | 2.42 | 2.50 | 2.45 | 2.30 |
| 03 DOM | 2.07 | 1.82 | 1.61 | 1.50 | 1.49 | 1.60 | 1.80 | 2.04 | 2.28 | 2.44 | 2.50 | 2.44 | 2.27 | 2.04 | 1.80 | 1.63 | 1.55 | 1.58 | 1.71 | 1.91 | 2.13 | 2.32 | 2.42 | 2.42 |
| 04 SEG | 2.31 | 2.12 | 1.88 | 1.67 | 1.52 | 1.48 | 1.57 | 1.75 | 2.01 | 2.27 | 2.47 | 2.57 | 2.53 | 2.37 | 2.12 | 1.85 | 1.63 | 1.49 | 1.48 | 1.60 | 1.81 | 2.06 | 2.29 | 2.45 |
| 05 TER | 2.48 | 2.39 | 2.18 | 1.91 | 1.65 | 1.46 | 1.40 | 1.48 | 1.70 | 2.01 | 2.34 | 2.59 | 2.71 | 2.67 | 2.47 | 2.16 | 1.81 | 1.52 | 1.34 | 1.32 | 1.47 | 1.74 | 2.06 | 2.36 |
| 06 QUA | 2.56 | 2.61 | 2.48 | 2.21 | 1.87 | 1.55 | 1.32 | 1.27 | 1.40 | 1.70 | 2.10 | 2.50 | 2.79 | 2.91 | 2.81 | 2.52 | 2.11 | 1.67 | 1.31 | 1.12 | 1.15 | 1.37 | 1.74 | 2.16 |
| 07 QUI | 2.53 | 2.74 | 2.75 | 2.55 | 2.18 | 1.75 | 1.37 | 1.14 | 1.13 | 1.36 | 1.78 | 2.27 | 2.73 | 3.03 | 3.10 | 2.90 | 2.49 | 1.96 | 1.44 | 1.05 | 0.90 | 1.01 | 1.36 | 1.85 |
| 08 SEX | 2.36 | 2.76 | 2.94 | 2.86 | 2.54 | 2.06 | 1.54 | 1.13 | 0.94 | 1.04 | 1.40 | 1.94 | 2.52 | 3.01 | 3.27 | 3.24 | 2.90 | 2.35 | 1.71 | 1.14 | 0.78 | 0.72 | 0.97 | 1.46 |
| 09 SAB | 2.06 | 2.62 | 3.00 | 3.10 | 2.90 | 2.44 | 1.85 | 1.28 | 0.89 | 0.79 | 1.02 | 1.52 | 2.17 | 2.81 | 3.28 | 3.46 | 3.29 | 2.81 | 2.13 | 1.42 | 0.85 | 0.57 | 0.65 | 1.05 |
| 10 DOM | 1.66 | 2.33 | 2.89 | 3.21 | 3.18 | 2.83 | 2.25 | 1.58 | 1.00 | 0.68 | 0.71 | 1.09 | 1.72 | 2.44 | 3.09 | 3.50 | 3.55 | 3.23 | 2.62 | 1.85 | 1.12 | 0.62 | 0.46 | 0.69 |
| 11 SEG | 1.23 | 1.92 | 2.61 | 3.13 | 3.33 | 3.16 | 2.67 | 1.99 | 1.30 | 0.77 | 0.56 | 0.74 | 1.25 | 1.96 | 2.70 | 3.31 | 3.62 | 3.53 | 3.08 | 2.37 | 1.57 | 0.89 | 0.49 | 0.48 |
| 12 TER | 0.85 | 1.48 | 2.20 | 2.85 | 3.27 | 3.33 | 3.03 | 2.44 | 1.73 | 1.06 | 0.63 | 0.56 | 0.87 | 1.46 | 2.20 | 2.91 | 3.43 | 3.61 | 3.40 | 2.85 | 2.11 | 1.34 | 0.75 | 0.49 |
| 13 QUA | 0.63 | 1.09 | 1.74 | 2.43 | 3.00 | 3.30 | 3.23 | 2.83 | 2.21 | 1.51 | 0.92 | 0.61 | 0.66 | 1.06 | 1.68 | 2.39 | 3.02 | 3.43 | 3.49 | 3.19 | 2.61 | 1.89 | 1.21 | 0.74 |
| 14 QUI | 0.62 | 0.85 | 1.34 | 1.96 | 2.58 | 3.04 | 3.21 | 3.06 | 2.62 | 2.02 | 1.39 | 0.90 | 0.71 | 0.84 | 1.26 | 1.85 | 2.48 | 3.01 | 3.31 | 3.28 | 2.95 | 2.40 | 1.76 | 1.19 |
| 15 SEX | 0.85 | 0.82 | 1.08 | 1.55 | 2.10 | 2.61 | 2.97 | 3.06 | 2.87 | 2.46 | 1.92 | 1.39 | 1.01 | 0.89 | 1.04 | 1.42 | 1.93 | 2.45 | 2.88 | 3.10 | 3.04 | 2.74 | 2.27 | 1.73 |
| 16 SAB | 1.28 | 1.03 | 1.04 | 1.28 | 1.67 | 2.12 | 2.54 | 2.83 | 2.89 | 2.74 | 2.39 | 1.94 | 1.50 | 1.19 | 1.09 | 1.20 | 1.49 | 1.89 | 2.32 | 2.67 | 2.86 | 2.83 | 2.61 | 2.24 |
| 17 DOM | 1.81 | 1.44 | 1.23 | 1.22 | 1.38 | 1.68 | 2.05 | 2.41 | 2.68 | 2.78 | 2.69 | 2.44 | 2.07 | 1.69 | 1.39 | 1.25 | 1.27 | 1.45 | 1.75 | 2.11 | 2.44 | 2.66 | 2.71 | 2.58 |
| 18 SEG | 2.30 | 1.95 | 1.62 | 1.39 | 1.30 | 1.38 | 1.60 | 1.93 | 2.28 | 2.58 | 2.76 | 2.76 | 2.58 | 2.26 | 1.89 | 1.54 | 1.31 | 1.23 | 1.31 | 1.55 | 1.90 | 2.26 | 2.55 | 2.69 |
| 19 TER | 2.65 | 2.43 | 2.10 | 1.74 | 1.44 | 1.28 | 1.28 | 1.47 | 1.80 | 2.20 | 2.58 | 2.84 | 2.92 | 2.77 | 2.45 | 2.02 | 1.59 | 1.25 | 1.08 | 1.12 | 1.36 | 1.75 | 2.19 | 2.56 |
| 20 QUA | 2.78 | 2.79 | 2.57 | 2.20 | 1.76 | 1.38 | 1.15 | 1.13 | 1.34 | 1.74 | 2.22 | 2.69 | 3.02 | 3.12 | 2.95 | 2.57 | 2.05 | 1.51 | 1.09 | 0.88 | 0.93 | 1.24 | 1.71 | 2.24 |
| 21 QUI | 2.69 | 2.94 | 2.93 | 2.65 | 2.19 | 1.67 | 1.22 | 0.97 | 0.99 | 1.28 | 1.77 | 2.35 | 2.88 | 3.23 | 3.29 | 3.05 | 2.56 | 1.94 | 1.32 | 0.87 | 0.69 | 0.83 | 1.24 | 1.81 |
| 22 SEX | 2.41 | 2.89 | 3.11 | 3.01 | 2.63 | 2.07 | 1.48 | 1.01 | 0.80 | 0.91 | 1.32 | 1.91 | 2.56 | 3.12 | 3.42 | 3.39 | 3.03 | 2.42 | 1.72 | 1.07 | 0.66 | 0.58 | 0.85 | 1.38 |
| 23 SAB | 2.03 | 2.66 | 3.10 | 3.22 | 2.99 | 2.49 | 1.84 | 1.22 | 0.80 | 0.70 | 0.94 | 1.47 | 2.15 | 2.82 | 3.33 | 3.53 | 3.36 | 2.87 | 2.17 | 1.43 | 0.83 | 0.53 | 0.60 | 1.01 |
| 24 DOM | 1.64 | 2.33 | 2.92 | 3.25 | 3.23 | 2.86 | 2.25 | 1.56 | 0.97 | 0.65 | 0.70 | 1.09 | 1.71 | 2.42 | 3.06 | 3.46 | 3.52 | 3.20 | 2.60 | 1.85 | 1.15 | 0.66 | 0.52 | 0.76 |
| 25 SEG | 1.29 | 1.96 | 2.63 | 3.12 | 3.30 | 3.11 | 2.61 | 1.94 | 1.28 | 0.79 | 0.63 | 0.83 | 1.33 | 2.00 | 2.69 | 3.23 | 3.48 | 3.37 | 2.93 | 2.26 | 1.54 | 0.93 | 0.61 | 0.66 |
| 26 TER | 1.04 | 1.63 | 2.29 | 2.87 | 3.21 | 3.21 | 2.88 | 2.31 | 1.65 | 1.06 | 0.72 | 0.73 | 1.06 | 1.63 | 2.29 | 2.88 | 3.28 | 3.37 | 3.11 | 2.59 | 1.93 | 1.29 | 0.84 | 0.70 |
| 27 QUA | 0.90 | 1.37 | 1.96 | 2.55 | 2.99 | 3.16 | 3.01 | 2.59 | 2.01 | 1.41 | 0.96 | 0.78 | 0.94 | 1.36 | 1.92 | 2.51 | 2.97 | 3.21 | 3.14 | 2.79 | 2.26 | 1.66 | 1.16 | 0.88 |
| 28 QUI | 0.91 | 1.21 | 1.69 | 2.23 | 2.70 | 2.99 | 3.00 | 2.75 | 2.30 | 1.77 | 1.29 | 0.99 | 0.96 | 1.21 | 1.64 | 2.15 | 2.62 | 2.94 | 3.02 | 2.85 | 2.48 | 1.99 | 1.51 | 1.16 |
| 29 SEX | 1.04 | 1.17 | 1.51 | 1.95 | 2.39 | 2.72 | 2.87 | 2.78 | 2.49 | 2.08 | 1.64 | 1.29 | 1.13 | 1.20 | 1.48 | 1.87 | 2.28 | 2.62 | 2.80 | 2.78 | 2.57 | 2.22 | 1.82 | 1.47 |
| 30 SAB | 1.26 | 1.25 | 1.43 | 1.74 | 2.09 | 2.42 | 2.64 | 2.70 | 2.57 | 2.30 | 1.96 | 1.63 | 1.39 | 1.33 | 1.44 | 1.67 | 1.98 | 2.28 | 2.51 | 2.60 | 2.54 | 2.35 | 2.07 | 1.78 |
| 31 DOM | 1.54 | 1.43 | 1.46 | 1.62 | 1.85 | 2.12 | 2.36 | 2.51 | 2.53 | 2.43 | 2.22 | 1.96 | 1.72 | 1.55 | 1.51 | 1.59 | 1.76 | 1.97 | 2.19 | 2.35 | 2.41 | 2.37 | 2.24 | 2.05 |

Leixões

Latitude 41° 11.20' N Longitude 8° 42.27' W

Horas do Fuso: 0 (TU)

SETEMBRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 01 SEG | 1.83 | 1.67 | 1.58 | 1.59 | 1.69 | 1.86 | 2.06 | 2.26 | 2.40 | 2.45 | 2.40 | 2.26 | 2.06 | 1.85 | 1.70 | 1.62 | 1.63 | 1.71 | 1.86 | 2.04 | 2.19 | 2.29 | 2.32 | 2.25 |
| 02 TER | 2.12 | 1.95 | 1.79 | 1.67 | 1.61 | 1.65 | 1.77 | 1.96 | 2.18 | 2.36 | 2.48 | 2.48 | 2.38 | 2.19 | 1.97 | 1.76 | 1.60 | 1.53 | 1.56 | 1.70 | 1.90 | 2.12 | 2.29 | 2.39 |
| 03 QUA | 2.38 | 2.26 | 2.06 | 1.84 | 1.64 | 1.52 | 1.51 | 1.65 | 1.88 | 2.17 | 2.44 | 2.62 | 2.67 | 2.55 | 2.31 | 2.00 | 1.69 | 1.44 | 1.32 | 1.36 | 1.55 | 1.84 | 2.15 | 2.42 |
| 04 QUI | 2.57 | 2.56 | 2.39 | 2.10 | 1.78 | 1.49 | 1.32 | 1.34 | 1.54 | 1.88 | 2.28 | 2.64 | 2.86 | 2.89 | 2.70 | 2.35 | 1.91 | 1.48 | 1.17 | 1.06 | 1.17 | 1.47 | 1.89 | 2.33 |
| 05 SEX | 2.66 | 2.81 | 2.73 | 2.45 | 2.04 | 1.59 | 1.24 | 1.08 | 1.17 | 1.50 | 1.98 | 2.50 | 2.93 | 3.14 | 3.09 | 2.78 | 2.27 | 1.69 | 1.18 | 0.86 | 0.82 | 1.06 | 1.52 | 2.08 |
| 06 SÁB | 2.60 | 2.95 | 3.04 | 2.84 | 2.40 | 1.85 | 1.31 | 0.94 | 0.86 | 1.08 | 1.57 | 2.19 | 2.80 | 3.25 | 3.40 | 3.22 | 2.73 | 2.07 | 1.38 | 0.83 | 0.58 | 0.67 | 1.08 | 1.70 |
| 07 DOM | 2.37 | 2.93 | 3.24 | 3.20 | 2.83 | 2.24 | 1.56 | 0.98 | 0.66 | 0.70 | 1.10 | 1.74 | 2.48 | 3.13 | 3.53 | 3.57 | 3.22 | 2.57 | 1.78 | 1.04 | 0.53 | 0.39 | 0.66 | 1.24 |
| 08 SEG | 1.98 | 2.71 | 3.24 | 3.43 | 3.23 | 2.70 | 1.97 | 1.22 | 0.67 | 0.46 | 0.67 | 1.23 | 1.99 | 2.79 | 3.42 | 3.73 | 3.61 | 3.09 | 2.31 | 1.46 | 0.73 | 0.33 | 0.36 | 0.80 |
| 09 TER | 1.51 | 2.31 | 3.03 | 3.46 | 3.50 | 3.13 | 2.46 | 1.65 | 0.91 | 0.44 | 0.39 | 0.75 | 1.44 | 2.27 | 3.06 | 3.61 | 3.78 | 3.50 | 2.86 | 2.02 | 1.17 | 0.54 | 0.29 | 0.49 |
| 10 QUA | 1.05 | 1.82 | 2.62 | 3.25 | 3.55 | 3.43 | 2.92 | 2.18 | 1.37 | 0.70 | 0.36 | 0.46 | 0.94 | 1.68 | 2.50 | 3.22 | 3.65 | 3.68 | 3.28 | 2.58 | 1.75 | 0.98 | 0.49 | 0.41 |
| 11 QUI | 0.74 | 1.36 | 2.11 | 2.83 | 3.34 | 3.49 | 3.24 | 2.67 | 1.92 | 1.17 | 0.62 | 0.43 | 0.64 | 1.18 | 1.90 | 2.64 | 3.24 | 3.54 | 3.45 | 3.00 | 2.32 | 1.57 | 0.94 | 0.60 |
| 12 SEX | 0.65 | 1.04 | 1.64 | 2.32 | 2.91 | 3.28 | 3.31 | 3.00 | 2.43 | 1.76 | 1.12 | 0.71 | 0.63 | 0.89 | 1.40 | 2.03 | 2.65 | 3.12 | 3.30 | 3.15 | 2.73 | 2.13 | 1.51 | 1.03 |
| 13 SÁB | 0.83 | 0.94 | 1.32 | 1.84 | 2.39 | 2.85 | 3.11 | 3.07 | 2.78 | 2.29 | 1.73 | 1.22 | 0.92 | 0.89 | 1.12 | 1.53 | 2.04 | 2.52 | 2.87 | 3.00 | 2.86 | 2.52 | 2.06 | 1.58 |
| 14 DOM | 1.23 | 1.10 | 1.21 | 1.50 | 1.90 | 2.33 | 2.69 | 2.88 | 2.87 | 2.65 | 2.27 | 1.83 | 1.43 | 1.19 | 1.14 | 1.28 | 1.56 | 1.92 | 2.30 | 2.59 | 2.71 | 2.66 | 2.43 | 2.10 |
| 15 SEG | 1.75 | 1.47 | 1.35 | 1.38 | 1.56 | 1.84 | 2.18 | 2.49 | 2.69 | 2.75 | 2.64 | 2.38 | 2.04 | 1.69 | 1.43 | 1.30 | 1.31 | 1.46 | 1.72 | 2.04 | 2.33 | 2.52 | 2.57 | 2.47 |
| 16 TER | 2.24 | 1.95 | 1.68 | 1.49 | 1.42 | 1.49 | 1.69 | 1.99 | 2.32 | 2.59 | 2.75 | 2.74 | 2.57 | 2.27 | 1.91 | 1.57 | 1.33 | 1.22 | 1.28 | 1.50 | 1.83 | 2.18 | 2.47 | 2.62 |
| 17 QUA | 2.60 | 2.41 | 2.11 | 1.78 | 1.50 | 1.33 | 1.34 | 1.52 | 1.85 | 2.24 | 2.61 | 2.86 | 2.93 | 2.77 | 2.44 | 2.01 | 1.57 | 1.22 | 1.05 | 1.09 | 1.34 | 1.73 | 2.18 | 2.56 |
| 18 QUI | 2.77 | 2.77 | 2.54 | 2.17 | 1.74 | 1.37 | 1.16 | 1.16 | 1.40 | 1.81 | 2.30 | 2.75 | 3.06 | 3.12 | 2.92 | 2.50 | 1.96 | 1.43 | 1.02 | 0.85 | 0.95 | 1.29 | 1.79 | 2.33 |
| 19 SEX | 2.76 | 2.96 | 2.90 | 2.58 | 2.10 | 1.58 | 1.16 | 0.96 | 1.04 | 1.37 | 1.89 | 2.47 | 2.97 | 3.26 | 3.25 | 2.94 | 2.40 | 1.77 | 1.18 | 0.80 | 0.71 | 0.93 | 1.40 | 2.00 |
| 20 SÁB | 2.59 | 3.00 | 3.12 | 2.94 | 2.49 | 1.90 | 1.32 | 0.92 | 0.81 | 1.01 | 1.48 | 2.10 | 2.72 | 3.20 | 3.40 | 3.26 | 2.81 | 2.17 | 1.47 | 0.91 | 0.62 | 0.68 | 1.06 | 1.65 |
| 21 DOM | 2.31 | 2.88 | 3.21 | 3.19 | 2.84 | 2.26 | 1.60 | 1.04 | 0.73 | 0.76 | 1.11 | 1.70 | 2.38 | 2.99 | 3.38 | 3.44 | 3.13 | 2.55 | 1.83 | 1.15 | 0.69 | 0.56 | 0.80 | 1.33 |
| 22 SEG | 2.00 | 2.66 | 3.14 | 3.31 | 3.12 | 2.62 | 1.95 | 1.28 | 0.80 | 0.64 | 0.84 | 1.34 | 2.00 | 2.68 | 3.21 | 3.45 | 3.33 | 2.88 | 2.20 | 1.48 | 0.88 | 0.58 | 0.65 | 1.06 |
| 23 TER | 1.68 | 2.37 | 2.96 | 3.30 | 3.28 | 2.92 | 2.31 | 1.61 | 1.01 | 0.66 | 0.68 | 1.04 | 1.64 | 2.32 | 2.93 | 3.33 | 3.39 | 3.10 | 2.53 | 1.83 | 1.18 | 0.73 | 0.62 | 0.88 |
| 24 QUA | 1.41 | 2.06 | 2.70 | 3.15 | 3.31 | 3.11 | 2.62 | 1.96 | 1.31 | 0.83 | 0.67 | 0.86 | 1.33 | 1.96 | 2.59 | 3.08 | 3.30 | 3.19 | 2.78 | 2.17 | 1.52 | 0.99 | 0.73 | 0.81 |
| 25 QUI | 1.20 | 1.77 | 2.39 | 2.91 | 3.20 | 3.17 | 2.84 | 2.29 | 1.66 | 1.12 | 0.80 | 0.81 | 1.13 | 1.64 | 2.23 | 2.76 | 3.09 | 3.15 | 2.90 | 2.43 | 1.85 | 1.31 | 0.95 | 0.87 |
| 26 SEX | 1.09 | 1.54 | 2.09 | 2.61 | 2.98 | 3.11 | 2.94 | 2.53 | 2.00 | 1.46 | 1.06 | 0.91 | 1.05 | 1.42 | 1.92 | 2.41 | 2.80 | 2.98 | 2.90 | 2.59 | 2.13 | 1.64 | 1.24 | 1.04 |
| 27 SÁB | 1.11 | 1.40 | 1.84 | 2.30 | 2.70 | 2.92 | 2.91 | 2.67 | 2.27 | 1.80 | 1.38 | 1.13 | 1.11 | 1.32 | 1.68 | 2.10 | 2.47 | 2.72 | 2.78 | 2.62 | 2.31 | 1.92 | 1.55 | 1.29 |
| 28 DOM | 1.23 | 1.37 | 1.67 | 2.03 | 2.39 | 2.66 | 2.77 | 2.69 | 2.44 | 2.10 | 1.73 | 1.43 | 1.29 | 1.34 | 1.55 | 1.84 | 2.15 | 2.41 | 2.56 | 2.55 | 2.39 | 2.13 | 1.84 | 1.58 |
| 29 SEG | 1.44 | 1.44 | 1.59 | 1.83 | 2.10 | 2.36 | 2.54 | 2.60 | 2.51 | 2.31 | 2.05 | 1.77 | 1.57 | 1.48 | 1.52 | 1.67 | 1.87 | 2.09 | 2.27 | 2.37 | 2.36 | 2.25 | 2.08 | 1.88 |
| 30 TER | 1.70 | 1.61 | 1.61 | 1.70 | 1.86 | 2.06 | 2.26 | 2.41 | 2.48 | 2.44 | 2.31 | 2.12 | 1.90 | 1.72 | 1.61 | 1.59 | 1.65 | 1.78 | 1.95 | 2.11 | 2.23 | 2.28 | 2.25 | 2.15 |

Leixões

Latitude 41° 11.20' N Longitude 8° 42.27' W

Horas do Fuso: 0 (TU)

OUTUBRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 QUA | 2.00 | 1.85 | 1.73 | 1.67 | 1.68 | 1.77 | 1.94 | 2.14 | 2.33 | 2.46 | 2.50 | 2.43 | 2.26 | 2.03 | 1.81 | 1.62 | 1.51 | 1.50 | 1.60 | 1.79 | 2.00 | 2.21 | 2.34 | 2.39 |
| 02 QUI | 2.32 | 2.15 | 1.95 | 1.74 | 1.59 | 1.53 | 1.61 | 1.81 | 2.08 | 2.36 | 2.58 | 2.68 | 2.62 | 2.42 | 2.12 | 1.78 | 1.49 | 1.30 | 1.27 | 1.41 | 1.68 | 2.01 | 2.32 | 2.54 |
| 03 SEX | 2.61 | 2.51 | 2.26 | 1.94 | 1.62 | 1.38 | 1.31 | 1.43 | 1.73 | 2.12 | 2.52 | 2.82 | 2.94 | 2.83 | 2.53 | 2.09 | 1.62 | 1.23 | 1.01 | 1.03 | 1.27 | 1.68 | 2.15 | 2.56 |
| 04 SAB | 2.83 | 2.86 | 2.65 | 2.27 | 1.80 | 1.37 | 1.09 | 1.06 | 1.30 | 1.74 | 2.28 | 2.78 | 3.12 | 3.20 | 2.99 | 2.53 | 1.94 | 1.34 | 0.90 | 0.71 | 0.84 | 1.25 | 1.81 | 2.41 |
| 05 DOM | 2.89 | 3.13 | 3.06 | 2.70 | 2.15 | 1.54 | 1.04 | 0.79 | 0.86 | 1.26 | 1.86 | 2.53 | 3.11 | 3.43 | 3.41 | 3.04 | 2.41 | 1.67 | 1.00 | 0.57 | 0.49 | 0.78 | 1.36 | 2.08 |
| 06 SEG | 2.76 | 3.24 | 3.38 | 3.15 | 2.62 | 1.91 | 1.20 | 0.70 | 0.53 | 0.76 | 1.33 | 2.08 | 2.83 | 3.42 | 3.67 | 3.50 | 2.97 | 2.19 | 1.36 | 0.67 | 0.33 | 0.40 | 0.87 | 1.60 |
| 07 TER | 2.41 | 3.11 | 3.51 | 3.51 | 3.11 | 2.41 | 1.59 | 0.86 | 0.42 | 0.39 | 0.79 | 1.49 | 2.33 | 3.12 | 3.65 | 3.78 | 3.46 | 2.78 | 1.91 | 1.05 | 0.44 | 0.23 | 0.48 | 1.10 |
| 08 QUA | 1.92 | 2.74 | 3.39 | 3.66 | 3.50 | 2.94 | 2.14 | 1.28 | 0.59 | 0.26 | 0.39 | 0.92 | 1.71 | 2.58 | 3.32 | 3.75 | 3.73 | 3.28 | 2.52 | 1.63 | 0.84 | 0.35 | 0.30 | 0.69 |
| 09 QUI | 1.40 | 2.23 | 3.01 | 3.54 | 3.66 | 3.36 | 2.70 | 1.86 | 1.04 | 0.45 | 0.26 | 0.51 | 1.12 | 1.92 | 2.74 | 3.39 | 3.68 | 3.55 | 3.02 | 2.25 | 1.42 | 0.75 | 0.42 | 0.51 |
| 10 SEX | 0.99 | 1.70 | 2.48 | 3.14 | 3.53 | 3.53 | 3.13 | 2.45 | 1.66 | 0.93 | 0.47 | 0.40 | 0.73 | 1.34 | 2.07 | 2.79 | 3.30 | 3.48 | 3.27 | 2.74 | 2.04 | 1.33 | 0.81 | 0.62 |
| 11 SAB | 0.81 | 1.29 | 1.94 | 2.60 | 3.13 | 3.39 | 3.30 | 2.89 | 2.27 | 1.57 | 0.98 | 0.64 | 0.65 | 0.97 | 1.50 | 2.12 | 2.70 | 3.09 | 3.19 | 2.97 | 2.51 | 1.93 | 1.37 | 0.99 |
| 12 DOM | 0.90 | 1.11 | 1.53 | 2.06 | 2.59 | 3.00 | 3.17 | 3.06 | 2.71 | 2.19 | 1.62 | 1.15 | 0.90 | 0.92 | 1.17 | 1.58 | 2.06 | 2.51 | 2.81 | 2.88 | 2.72 | 2.37 | 1.93 | 1.51 |
| 13 SEG | 1.24 | 1.18 | 1.34 | 1.65 | 2.05 | 2.46 | 2.78 | 2.93 | 2.87 | 2.62 | 2.23 | 1.79 | 1.41 | 1.18 | 1.14 | 1.27 | 1.54 | 1.90 | 2.26 | 2.52 | 2.63 | 2.57 | 2.35 | 2.04 |
| 14 TER | 1.72 | 1.48 | 1.39 | 1.45 | 1.64 | 1.93 | 2.27 | 2.56 | 2.75 | 2.79 | 2.65 | 2.37 | 2.01 | 1.66 | 1.39 | 1.26 | 1.27 | 1.43 | 1.70 | 2.03 | 2.31 | 2.50 | 2.55 | 2.43 |
| 15 QUA | 2.20 | 1.91 | 1.65 | 1.48 | 1.43 | 1.53 | 1.76 | 2.08 | 2.41 | 2.68 | 2.81 | 2.77 | 2.55 | 2.21 | 1.83 | 1.48 | 1.25 | 1.17 | 1.27 | 1.53 | 1.88 | 2.24 | 2.52 | 2.64 |
| 16 QUI | 2.58 | 2.35 | 2.03 | 1.70 | 1.44 | 1.32 | 1.38 | 1.61 | 1.97 | 2.37 | 2.72 | 2.92 | 2.92 | 2.70 | 2.32 | 1.86 | 1.43 | 1.13 | 1.02 | 1.14 | 1.45 | 1.88 | 2.31 | 2.65 |
| 17 SEX | 2.80 | 2.72 | 2.44 | 2.03 | 1.61 | 1.29 | 1.15 | 1.24 | 1.53 | 1.97 | 2.45 | 2.86 | 3.07 | 3.04 | 2.75 | 2.29 | 1.75 | 1.26 | 0.96 | 0.90 | 1.10 | 1.50 | 2.02 | 2.51 |
| 18 SAB | 2.86 | 2.96 | 2.79 | 2.41 | 1.90 | 1.42 | 1.09 | 1.00 | 1.17 | 1.57 | 2.10 | 2.63 | 3.04 | 3.20 | 3.07 | 2.68 | 2.12 | 1.52 | 1.04 | 0.80 | 0.85 | 1.18 | 1.70 | 2.28 |
| 19 DOM | 2.78 | 3.06 | 3.05 | 2.75 | 2.25 | 1.67 | 1.17 | 0.90 | 0.92 | 1.22 | 1.73 | 2.32 | 2.86 | 3.20 | 3.25 | 2.99 | 2.47 | 1.83 | 1.23 | 0.82 | 0.71 | 0.92 | 1.39 | 2.00 |
| 20 SEG | 2.61 | 3.05 | 3.21 | 3.04 | 2.59 | 1.98 | 1.38 | 0.93 | 0.78 | 0.94 | 1.38 | 1.98 | 2.59 | 3.08 | 3.30 | 3.19 | 2.78 | 2.17 | 1.50 | 0.96 | 0.68 | 0.75 | 1.13 | 1.71 |
| 21 TER | 2.36 | 2.92 | 3.24 | 3.23 | 2.90 | 2.32 | 1.66 | 1.09 | 0.76 | 0.76 | 1.08 | 1.63 | 2.27 | 2.85 | 3.22 | 3.29 | 3.02 | 2.48 | 1.82 | 1.19 | 0.77 | 0.67 | 0.92 | 1.43 |
| 22 QUA | 2.08 | 2.71 | 3.16 | 3.32 | 3.13 | 2.64 | 2.00 | 1.35 | 0.87 | 0.70 | 0.87 | 1.32 | 1.92 | 2.55 | 3.03 | 3.26 | 3.15 | 2.74 | 2.14 | 1.49 | 0.97 | 0.71 | 0.80 | 1.20 |
| 23 QUI | 1.79 | 2.43 | 2.97 | 3.27 | 3.25 | 2.90 | 2.33 | 1.68 | 1.10 | 0.77 | 0.76 | 1.07 | 1.60 | 2.21 | 2.76 | 3.11 | 3.17 | 2.92 | 2.43 | 1.82 | 1.25 | 0.87 | 0.79 | 1.04 |
| 24 SEX | 1.53 | 2.13 | 2.70 | 3.11 | 3.25 | 3.06 | 2.62 | 2.02 | 1.42 | 0.97 | 0.80 | 0.94 | 1.33 | 1.88 | 2.43 | 2.86 | 3.07 | 2.98 | 2.63 | 2.12 | 1.57 | 1.12 | 0.91 | 0.99 |
| 25 SAB | 1.34 | 1.84 | 2.39 | 2.85 | 3.12 | 3.10 | 2.81 | 2.33 | 1.77 | 1.27 | 0.97 | 0.94 | 1.18 | 1.60 | 2.10 | 2.55 | 2.85 | 2.92 | 2.73 | 2.35 | 1.87 | 1.43 | 1.12 | 1.06 |
| 26 DOM | 1.25 | 1.63 | 2.09 | 2.55 | 2.88 | 3.01 | 2.89 | 2.55 | 2.09 | 1.62 | 1.24 | 1.07 | 1.14 | 1.42 | 1.81 | 2.22 | 2.56 | 2.74 | 2.71 | 2.48 | 2.12 | 1.73 | 1.40 | 1.23 |
| 27 SEG | 1.27 | 1.50 | 1.85 | 2.24 | 2.59 | 2.81 | 2.84 | 2.67 | 2.35 | 1.95 | 1.58 | 1.31 | 1.23 | 1.35 | 1.60 | 1.92 | 2.24 | 2.48 | 2.58 | 2.50 | 2.29 | 2.00 | 1.70 | 1.47 |
| 28 TER | 1.39 | 1.47 | 1.67 | 1.96 | 2.27 | 2.54 | 2.69 | 2.68 | 2.52 | 2.25 | 1.93 | 1.63 | 1.44 | 1.39 | 1.48 | 1.67 | 1.92 | 2.17 | 2.36 | 2.42 | 2.37 | 2.21 | 1.99 | 1.76 |
| 29 QUA | 1.59 | 1.53 | 1.59 | 1.74 | 1.97 | 2.22 | 2.44 | 2.58 | 2.59 | 2.48 | 2.26 | 1.99 | 1.73 | 1.54 | 1.47 | 1.50 | 1.63 | 1.83 | 2.06 | 2.24 | 2.34 | 2.34 | 2.25 | 2.08 |
| 30 QUI | 1.88 | 1.71 | 1.61 | 1.60 | 1.70 | 1.88 | 2.12 | 2.36 | 2.54 | 2.60 | 2.55 | 2.36 | 2.10 | 1.81 | 1.58 | 1.43 | 1.40 | 1.50 | 1.70 | 1.95 | 2.20 | 2.38 | 2.45 | 2.39 |
| 31 SEX | 2.22 | 1.99 | 1.75 | 1.57 | 1.49 | 1.55 | 1.75 | 2.03 | 2.35 | 2.60 | 2.74 | 2.71 | 2.51 | 2.19 | 1.83 | 1.49 | 1.27 | 1.20 | 1.31 | 1.58 | 1.92 | 2.27 | 2.54 | 2.65 |

Leixões

Latitude 41° 11.20' N Longitude 8° 42.27' W

Horas do Fuso: 0 (TU)

NOVEMBRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 01 SÁB | 2.59 | 2.36 | 2.03 | 1.69 | 1.41 | 1.28 | 1.36 | 1.62 | 2.01 | 2.43 | 2.77 | 2.96 | 2.91 | 2.65 | 2.22 | 1.74 | 1.30 | 1.02 | 0.96 | 1.15 | 1.52 | 2.00 | 2.46 | 2.80 |
| 02 DOM | 2.91 | 2.78 | 2.44 | 1.97 | 1.50 | 1.15 | 1.03 | 1.17 | 1.54 | 2.06 | 2.60 | 3.02 | 3.21 | 3.11 | 2.72 | 2.16 | 1.55 | 1.03 | 0.74 | 0.75 | 1.06 | 1.58 | 2.19 | 2.75 |
| 03 SEG | 3.10 | 3.16 | 2.91 | 2.41 | 1.80 | 1.23 | 0.85 | 0.77 | 1.03 | 1.55 | 2.21 | 2.84 | 3.30 | 3.44 | 3.23 | 2.71 | 2.01 | 1.29 | 0.74 | 0.50 | 0.63 | 1.09 | 1.76 | 2.48 |
| 04 TER | 3.07 | 3.39 | 3.33 | 2.93 | 2.28 | 1.55 | 0.92 | 0.56 | 0.59 | 0.98 | 1.64 | 2.40 | 3.09 | 3.53 | 3.59 | 3.25 | 2.59 | 1.79 | 1.02 | 0.50 | 0.36 | 0.63 | 1.24 | 2.01 |
| 05 QUA | 2.79 | 3.36 | 3.59 | 3.40 | 2.85 | 2.07 | 1.27 | 0.64 | 0.36 | 0.50 | 1.02 | 1.78 | 2.60 | 3.29 | 3.66 | 3.62 | 3.16 | 2.41 | 1.55 | 0.81 | 0.37 | 0.36 | 0.77 | 1.47 |
| 06 QUI | 2.30 | 3.06 | 3.57 | 3.67 | 3.34 | 2.68 | 1.83 | 1.02 | 0.45 | 0.27 | 0.52 | 1.14 | 1.94 | 2.76 | 3.40 | 3.68 | 3.52 | 2.98 | 2.19 | 1.35 | 0.68 | 0.37 | 0.49 | 0.99 |
| 07 SEX | 1.74 | 2.56 | 3.25 | 3.65 | 3.63 | 3.20 | 2.47 | 1.63 | 0.86 | 0.38 | 0.30 | 0.64 | 1.29 | 2.08 | 2.84 | 3.39 | 3.57 | 3.33 | 2.76 | 1.99 | 1.23 | 0.68 | 0.49 | 0.71 |
| 08 SÁB | 1.25 | 1.98 | 2.72 | 3.32 | 3.60 | 3.48 | 3.01 | 2.29 | 1.50 | 0.82 | 0.45 | 0.45 | 0.82 | 1.44 | 2.16 | 2.82 | 3.26 | 3.36 | 3.09 | 2.54 | 1.86 | 1.21 | 0.79 | 0.70 |
| 09 DOM | 0.96 | 1.49 | 2.14 | 2.78 | 3.26 | 3.45 | 3.28 | 2.82 | 2.17 | 1.48 | 0.91 | 0.62 | 0.67 | 1.01 | 1.55 | 2.16 | 2.71 | 3.05 | 3.10 | 2.84 | 2.37 | 1.80 | 1.29 | 0.97 |
| 10 SEG | 0.95 | 1.20 | 1.65 | 2.20 | 2.73 | 3.11 | 3.24 | 3.09 | 2.69 | 2.14 | 1.56 | 1.09 | 0.86 | 0.89 | 1.16 | 1.59 | 2.08 | 2.53 | 2.81 | 2.85 | 2.66 | 2.29 | 1.84 | 1.43 |
| 11 TER | 1.19 | 1.17 | 1.36 | 1.72 | 2.16 | 2.59 | 2.92 | 3.04 | 2.94 | 2.63 | 2.19 | 1.70 | 1.31 | 1.08 | 1.07 | 1.24 | 1.56 | 1.96 | 2.34 | 2.59 | 2.67 | 2.55 | 2.29 | 1.93 |
| 12 QUA | 1.60 | 1.38 | 1.32 | 1.43 | 1.69 | 2.05 | 2.43 | 2.73 | 2.89 | 2.86 | 2.64 | 2.29 | 1.87 | 1.50 | 1.25 | 1.17 | 1.25 | 1.50 | 1.83 | 2.18 | 2.45 | 2.58 | 2.55 | 2.35 |
| 13 QUI | 2.05 | 1.74 | 1.49 | 1.38 | 1.42 | 1.61 | 1.93 | 2.28 | 2.61 | 2.81 | 2.85 | 2.70 | 2.39 | 2.00 | 1.61 | 1.32 | 1.17 | 1.21 | 1.42 | 1.74 | 2.11 | 2.42 | 2.61 | 2.62 |
| 14 SEX | 2.45 | 2.15 | 1.81 | 1.52 | 1.35 | 1.35 | 1.52 | 1.83 | 2.21 | 2.57 | 2.82 | 2.89 | 2.76 | 2.45 | 2.04 | 1.61 | 1.28 | 1.11 | 1.15 | 1.37 | 1.73 | 2.14 | 2.50 | 2.71 |
| 15 SÁB | 2.72 | 2.52 | 2.19 | 1.79 | 1.45 | 1.25 | 1.25 | 1.45 | 1.79 | 2.22 | 2.62 | 2.89 | 2.95 | 2.79 | 2.43 | 1.97 | 1.51 | 1.16 | 1.02 | 1.11 | 1.40 | 1.83 | 2.29 | 2.67 |
| 16 DOM | 2.86 | 2.81 | 2.54 | 2.13 | 1.67 | 1.31 | 1.13 | 1.18 | 1.44 | 1.85 | 2.32 | 2.74 | 2.98 | 2.98 | 2.74 | 2.31 | 1.80 | 1.32 | 1.02 | 0.96 | 1.14 | 1.53 | 2.03 | 2.52 |
| 17 SEG | 2.87 | 2.99 | 2.84 | 2.47 | 1.97 | 1.48 | 1.13 | 1.02 | 1.16 | 1.51 | 1.99 | 2.49 | 2.88 | 3.05 | 2.96 | 2.62 | 2.11 | 1.56 | 1.11 | 0.90 | 0.95 | 1.27 | 1.76 | 2.31 |
| 18 TER | 2.79 | 3.06 | 3.06 | 2.78 | 2.30 | 1.74 | 1.26 | 0.97 | 0.96 | 1.21 | 1.66 | 2.20 | 2.69 | 3.01 | 3.08 | 2.86 | 2.41 | 1.84 | 1.30 | 0.94 | 0.84 | 1.04 | 1.48 | 2.05 |
| 19 QUA | 2.61 | 3.02 | 3.18 | 3.03 | 2.62 | 2.06 | 1.48 | 1.04 | 0.86 | 0.98 | 1.35 | 1.87 | 2.43 | 2.87 | 3.09 | 3.02 | 2.68 | 2.15 | 1.56 | 1.08 | 0.83 | 0.89 | 1.23 | 1.76 |
| 20 QUI | 2.36 | 2.88 | 3.19 | 3.20 | 2.91 | 2.39 | 1.78 | 1.23 | 0.88 | 0.84 | 1.08 | 1.55 | 2.11 | 2.64 | 3.00 | 3.09 | 2.89 | 2.44 | 1.87 | 1.31 | 0.93 | 0.83 | 1.03 | 1.49 |
| 21 SEX | 2.07 | 2.65 | 3.08 | 3.25 | 3.11 | 2.70 | 2.11 | 1.51 | 1.03 | 0.81 | 0.90 | 1.26 | 1.78 | 2.33 | 2.79 | 3.04 | 3.00 | 2.68 | 2.18 | 1.62 | 1.14 | 0.89 | 0.93 | 1.26 |
| 22 SÁB | 1.77 | 2.35 | 2.87 | 3.18 | 3.21 | 2.94 | 2.44 | 1.85 | 1.30 | 0.93 | 0.84 | 1.05 | 1.47 | 2.00 | 2.51 | 2.87 | 2.99 | 2.83 | 2.45 | 1.93 | 1.43 | 1.06 | 0.95 | 1.11 |
| 23 DOM | 1.51 | 2.04 | 2.57 | 2.99 | 3.17 | 3.07 | 2.72 | 2.19 | 1.63 | 1.17 | 0.92 | 0.96 | 1.24 | 1.68 | 2.18 | 2.61 | 2.86 | 2.87 | 2.63 | 2.22 | 1.74 | 1.32 | 1.07 | 1.08 |
| 24 SEG | 1.33 | 1.75 | 2.25 | 2.71 | 3.01 | 3.08 | 2.89 | 2.49 | 1.99 | 1.49 | 1.13 | 1.00 | 1.12 | 1.43 | 1.86 | 2.30 | 2.63 | 2.78 | 2.70 | 2.43 | 2.03 | 1.62 | 1.29 | 1.16 |
| 25 TER | 1.25 | 1.53 | 1.94 | 2.38 | 2.75 | 2.96 | 2.94 | 2.71 | 2.32 | 1.85 | 1.44 | 1.17 | 1.12 | 1.28 | 1.59 | 1.97 | 2.34 | 2.60 | 2.67 | 2.55 | 2.28 | 1.92 | 1.58 | 1.33 |
| 26 QUA | 1.27 | 1.40 | 1.68 | 2.05 | 2.43 | 2.73 | 2.87 | 2.82 | 2.58 | 2.21 | 1.80 | 1.44 | 1.24 | 1.22 | 1.38 | 1.67 | 2.01 | 2.32 | 2.53 | 2.57 | 2.45 | 2.21 | 1.90 | 1.60 |
| 27 QUI | 1.41 | 1.37 | 1.50 | 1.75 | 2.08 | 2.42 | 2.68 | 2.80 | 2.74 | 2.52 | 2.18 | 1.80 | 1.48 | 1.29 | 1.28 | 1.41 | 1.67 | 1.98 | 2.27 | 2.47 | 2.53 | 2.44 | 2.22 | 1.94 |
| 28 SEX | 1.66 | 1.47 | 1.41 | 1.51 | 1.73 | 2.05 | 2.38 | 2.65 | 2.78 | 2.74 | 2.54 | 2.21 | 1.83 | 1.50 | 1.30 | 1.25 | 1.36 | 1.60 | 1.92 | 2.24 | 2.47 | 2.57 | 2.51 | 2.31 |
| 29 SÁB | 2.01 | 1.71 | 1.48 | 1.38 | 1.44 | 1.65 | 1.98 | 2.34 | 2.65 | 2.83 | 2.82 | 2.62 | 2.28 | 1.86 | 1.48 | 1.22 | 1.14 | 1.24 | 1.51 | 1.88 | 2.26 | 2.55 | 2.70 | 2.65 |
| 30 DOM | 2.43 | 2.08 | 1.71 | 1.41 | 1.25 | 1.29 | 1.53 | 1.91 | 2.34 | 2.72 | 2.95 | 2.96 | 2.74 | 2.34 | 1.85 | 1.40 | 1.08 | 0.97 | 1.10 | 1.44 | 1.89 | 2.35 | 2.72 | 2.90 |

Leixões

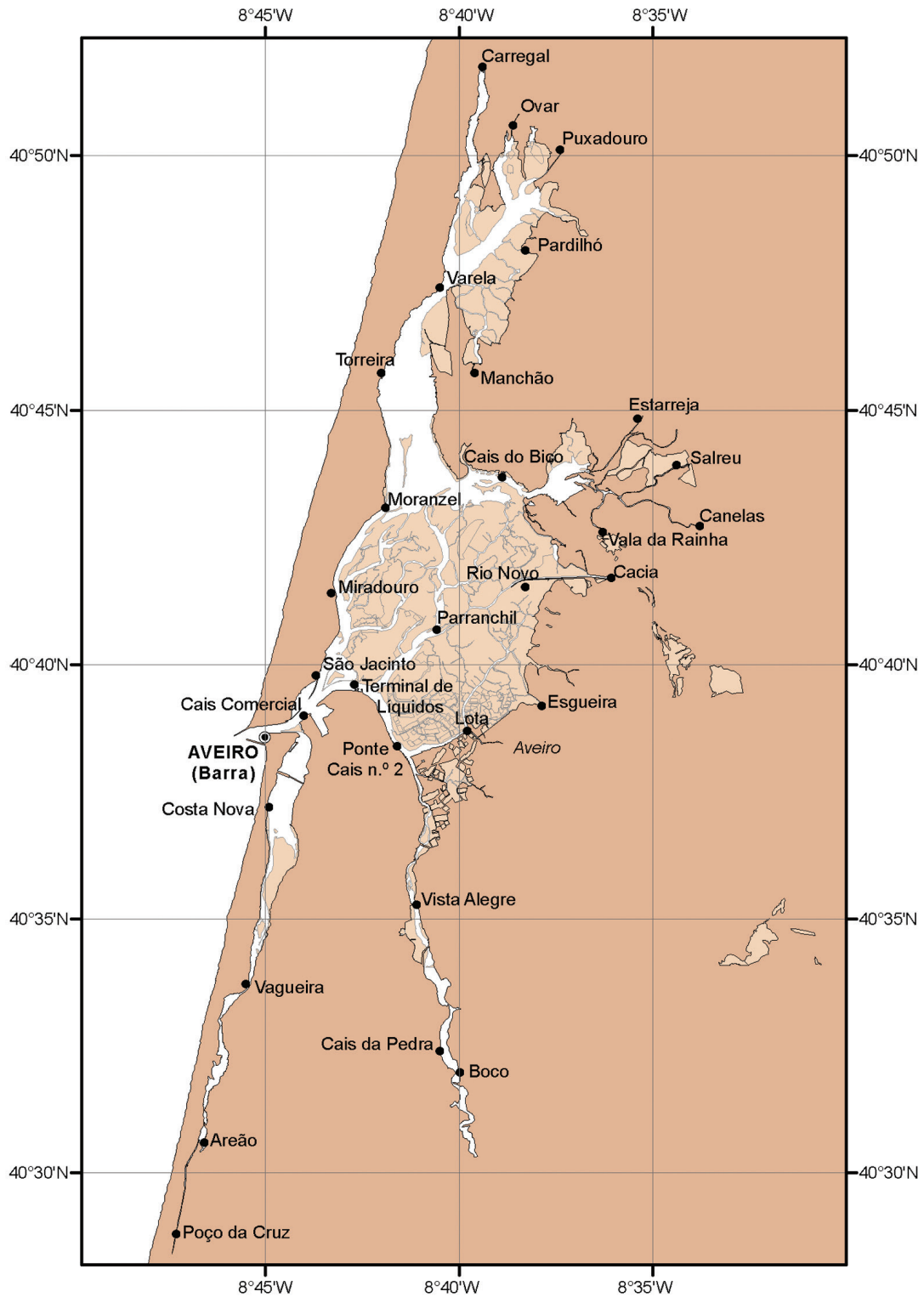
Latitude 41° 11.20' N Longitude 8° 42.27' W

Horas do Fuso: 0 (TU)

DEZEMBRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 SEG | 2.83 | 2.54 | 2.11 | 1.64 | 1.26 | 1.06 | 1.11 | 1.40 | 1.86 | 2.38 | 2.84 | 3.11 | 3.11 | 2.84 | 2.36 | 1.79 | 1.26 | 0.90 | 0.80 | 0.99 | 1.41 | 1.97 | 2.52 | 2.94 |
| 02 TER | 3.12 | 3.00 | 2.62 | 2.07 | 1.50 | 1.05 | 0.84 | 0.93 | 1.30 | 1.86 | 2.47 | 2.99 | 3.28 | 3.25 | 2.91 | 2.34 | 1.67 | 1.08 | 0.71 | 0.66 | 0.94 | 1.47 | 2.12 | 2.75 |
| 03 QUA | 3.19 | 3.33 | 3.13 | 2.63 | 1.97 | 1.31 | 0.82 | 0.63 | 0.78 | 1.24 | 1.89 | 2.58 | 3.14 | 3.42 | 3.34 | 2.91 | 2.26 | 1.53 | 0.91 | 0.57 | 0.59 | 0.97 | 1.59 | 2.32 |
| 04 QUI | 2.99 | 3.41 | 3.48 | 3.18 | 2.58 | 1.83 | 1.11 | 0.61 | 0.47 | 0.70 | 1.24 | 1.96 | 2.70 | 3.26 | 3.50 | 3.35 | 2.85 | 2.13 | 1.37 | 0.77 | 0.49 | 0.61 | 1.07 | 1.77 |
| 05 SEX | 2.54 | 3.20 | 3.57 | 3.55 | 3.15 | 2.47 | 1.66 | 0.94 | 0.47 | 0.38 | 0.69 | 1.29 | 2.05 | 2.79 | 3.32 | 3.50 | 3.28 | 2.73 | 1.98 | 1.24 | 0.70 | 0.50 | 0.70 | 1.24 |
| 06 SAB | 1.97 | 2.73 | 3.34 | 3.64 | 3.54 | 3.06 | 2.33 | 1.52 | 0.82 | 0.41 | 0.39 | 0.75 | 1.38 | 2.14 | 2.84 | 3.31 | 3.42 | 3.15 | 2.57 | 1.84 | 1.15 | 0.69 | 0.58 | 0.85 |
| 07 DOM | 1.42 | 2.14 | 2.86 | 3.40 | 3.62 | 3.45 | 2.93 | 2.20 | 1.42 | 0.78 | 0.44 | 0.49 | 0.87 | 1.49 | 2.21 | 2.84 | 3.23 | 3.28 | 2.97 | 2.41 | 1.73 | 1.12 | 0.75 | 0.72 |
| 08 SEG | 1.04 | 1.59 | 2.27 | 2.92 | 3.37 | 3.51 | 3.30 | 2.79 | 2.10 | 1.39 | 0.83 | 0.57 | 0.65 | 1.03 | 1.60 | 2.24 | 2.79 | 3.10 | 3.09 | 2.78 | 2.26 | 1.67 | 1.15 | 0.87 |
| 09 TER | 0.90 | 1.21 | 1.73 | 2.34 | 2.90 | 3.27 | 3.36 | 3.13 | 2.66 | 2.04 | 1.41 | 0.94 | 0.74 | 0.84 | 1.19 | 1.69 | 2.24 | 2.69 | 2.93 | 2.90 | 2.62 | 2.16 | 1.65 | 1.23 |
| 10 QUA | 1.02 | 1.07 | 1.36 | 1.82 | 2.34 | 2.81 | 3.12 | 3.17 | 2.97 | 2.56 | 2.02 | 1.49 | 1.10 | 0.94 | 1.02 | 1.31 | 1.74 | 2.20 | 2.57 | 2.77 | 2.74 | 2.50 | 2.11 | 1.69 |
| 11 QUI | 1.34 | 1.17 | 1.22 | 1.46 | 1.85 | 2.29 | 2.69 | 2.95 | 3.00 | 2.84 | 2.49 | 2.03 | 1.58 | 1.25 | 1.11 | 1.17 | 1.40 | 1.76 | 2.14 | 2.46 | 2.64 | 2.63 | 2.44 | 2.12 |
| 12 SEX | 1.75 | 1.45 | 1.30 | 1.32 | 1.52 | 1.84 | 2.22 | 2.57 | 2.81 | 2.87 | 2.75 | 2.45 | 2.06 | 1.66 | 1.36 | 1.22 | 1.25 | 1.44 | 1.75 | 2.10 | 2.40 | 2.58 | 2.59 | 2.44 |
| 13 SAB | 2.15 | 1.82 | 1.54 | 1.37 | 1.37 | 1.52 | 1.80 | 2.15 | 2.47 | 2.71 | 2.79 | 2.69 | 2.43 | 2.07 | 1.70 | 1.41 | 1.26 | 1.28 | 1.46 | 1.75 | 2.10 | 2.40 | 2.60 | 2.62 |
| 14 DOM | 2.48 | 2.20 | 1.87 | 1.57 | 1.38 | 1.36 | 1.50 | 1.77 | 2.10 | 2.43 | 2.68 | 2.76 | 2.67 | 2.41 | 2.05 | 1.68 | 1.38 | 1.23 | 1.27 | 1.47 | 1.79 | 2.16 | 2.48 | 2.68 |
| 15 SEG | 2.69 | 2.52 | 2.21 | 1.85 | 1.53 | 1.33 | 1.31 | 1.47 | 1.75 | 2.11 | 2.46 | 2.70 | 2.77 | 2.65 | 2.36 | 1.97 | 1.58 | 1.29 | 1.17 | 1.25 | 1.51 | 1.88 | 2.29 | 2.63 |
| 16 TER | 2.80 | 2.77 | 2.54 | 2.17 | 1.77 | 1.42 | 1.24 | 1.25 | 1.45 | 1.78 | 2.18 | 2.54 | 2.76 | 2.79 | 2.62 | 2.27 | 1.84 | 1.44 | 1.17 | 1.11 | 1.27 | 1.60 | 2.04 | 2.48 |
| 17 QUA | 2.81 | 2.93 | 2.82 | 2.50 | 2.06 | 1.61 | 1.27 | 1.12 | 1.20 | 1.47 | 1.87 | 2.31 | 2.66 | 2.85 | 2.80 | 2.54 | 2.13 | 1.66 | 1.27 | 1.06 | 1.08 | 1.34 | 1.77 | 2.26 |
| 18 QUI | 2.71 | 2.98 | 3.02 | 2.80 | 2.39 | 1.88 | 1.41 | 1.10 | 1.02 | 1.19 | 1.55 | 2.01 | 2.47 | 2.80 | 2.91 | 2.78 | 2.42 | 1.94 | 1.46 | 1.11 | 0.98 | 1.12 | 1.48 | 1.99 |
| 19 SEX | 2.51 | 2.93 | 3.12 | 3.05 | 2.72 | 2.21 | 1.66 | 1.20 | 0.95 | 0.97 | 1.24 | 1.68 | 2.19 | 2.64 | 2.91 | 2.93 | 2.69 | 2.25 | 1.73 | 1.27 | 0.99 | 0.97 | 1.22 | 1.68 |
| 20 SAB | 2.24 | 2.76 | 3.11 | 3.20 | 2.99 | 2.55 | 1.98 | 1.42 | 1.01 | 0.86 | 0.99 | 1.36 | 1.87 | 2.39 | 2.79 | 2.98 | 2.89 | 2.55 | 2.05 | 1.52 | 1.11 | 0.93 | 1.03 | 1.39 |
| 21 DOM | 1.92 | 2.49 | 2.96 | 3.22 | 3.18 | 2.86 | 2.34 | 1.74 | 1.21 | 0.88 | 0.84 | 1.08 | 1.53 | 2.07 | 2.57 | 2.90 | 2.98 | 2.78 | 2.36 | 1.83 | 1.33 | 1.00 | 0.94 | 1.15 |
| 22 SEG | 1.60 | 2.16 | 2.71 | 3.11 | 3.25 | 3.09 | 2.68 | 2.11 | 1.51 | 1.05 | 0.83 | 0.90 | 1.24 | 1.73 | 2.27 | 2.71 | 2.95 | 2.91 | 2.62 | 2.15 | 1.63 | 1.19 | 0.96 | 1.01 |
| 23 TER | 1.32 | 1.82 | 2.38 | 2.87 | 3.17 | 3.20 | 2.95 | 2.47 | 1.88 | 1.33 | 0.96 | 0.85 | 1.03 | 1.42 | 1.93 | 2.43 | 2.80 | 2.93 | 2.80 | 2.44 | 1.96 | 1.47 | 1.11 | 0.99 |
| 24 QUA | 1.14 | 1.51 | 2.02 | 2.55 | 2.97 | 3.17 | 3.10 | 2.77 | 2.27 | 1.70 | 1.22 | 0.94 | 0.93 | 1.18 | 1.60 | 2.10 | 2.54 | 2.82 | 2.86 | 2.66 | 2.27 | 1.80 | 1.37 | 1.09 |
| 25 QUI | 1.06 | 1.27 | 1.68 | 2.17 | 2.66 | 3.00 | 3.12 | 2.98 | 2.61 | 2.10 | 1.57 | 1.16 | 0.97 | 1.04 | 1.32 | 1.75 | 2.21 | 2.59 | 2.80 | 2.77 | 2.53 | 2.15 | 1.70 | 1.33 |
| 26 SEX | 1.12 | 1.15 | 1.40 | 1.80 | 2.27 | 2.70 | 2.99 | 3.05 | 2.86 | 2.48 | 1.99 | 1.51 | 1.16 | 1.03 | 1.13 | 1.43 | 1.83 | 2.26 | 2.59 | 2.75 | 2.70 | 2.46 | 2.08 | 1.67 |
| 27 SAB | 1.34 | 1.17 | 1.23 | 1.48 | 1.86 | 2.31 | 2.70 | 2.94 | 2.98 | 2.79 | 2.41 | 1.94 | 1.50 | 1.18 | 1.08 | 1.19 | 1.47 | 1.86 | 2.26 | 2.57 | 2.72 | 2.68 | 2.44 | 2.08 |
| 28 DOM | 1.69 | 1.37 | 1.22 | 1.26 | 1.49 | 1.86 | 2.28 | 2.66 | 2.90 | 2.94 | 2.76 | 2.40 | 1.95 | 1.52 | 1.21 | 1.09 | 1.19 | 1.46 | 1.84 | 2.24 | 2.56 | 2.74 | 2.72 | 2.50 |
| 29 SEG | 2.14 | 1.75 | 1.41 | 1.22 | 1.23 | 1.43 | 1.79 | 2.21 | 2.60 | 2.87 | 2.94 | 2.79 | 2.44 | 1.99 | 1.54 | 1.21 | 1.06 | 1.14 | 1.40 | 1.79 | 2.23 | 2.60 | 2.81 | 2.82 |
| 30 TER | 2.61 | 2.24 | 1.80 | 1.41 | 1.17 | 1.13 | 1.31 | 1.67 | 2.12 | 2.56 | 2.88 | 3.00 | 2.86 | 2.52 | 2.04 | 1.56 | 1.17 | 0.99 | 1.05 | 1.32 | 1.76 | 2.25 | 2.69 | 2.95 |
| 31 QUA | 2.98 | 2.75 | 2.34 | 1.83 | 1.37 | 1.06 | 0.98 | 1.15 | 1.53 | 2.04 | 2.55 | 2.93 | 3.08 | 2.96 | 2.60 | 2.08 | 1.53 | 1.10 | 0.88 | 0.94 | 1.26 | 1.76 | 2.33 | 2.83 |

AVEIRO



PORTO DE AVEIRO

NOTAS

1. ANÁLISE HARMÓNICA:

— Efetuada a partir de um ano de observações maregráficas, de 1 de maio de 2015 a 1 de maio de 2016.

2. LOCALIZAÇÃO DO MARÉGRAFO:

— No molhe central da Barra de Aveiro:

Latitude 40° 38,65' N; Longitude 8° 44,92' W – WGS84.

3. ALTURAS DE MARÉ:

— Referidas ao nível do zero hidrográfico.

— Nível médio: 2,00 m.

4. ZERO HIDROGRÁFICO:

— 2,00 m abaixo do nível médio adotado (Cascais, 1938).

— 6,980 m abaixo da marca de contacto (MC).

— 6,149 m abaixo da marca de nivelamento principal NP 174 (IGP) situada no passeio fronteiro à porta do farol da Barra.

5. FIGURA DO PORTO:

— O tom de castanho mais claro corresponde à zona de sapal.

Porto de Aveiro

Latitude 40° 38.65' N Longitude 8° 44.92' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JANEIRO | | | | FEVEREIRO | | | | MARÇO | | | | | | | | | | | | | | | |
|-----------|-------|--------|-----------|-----------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-------|-----------|-------|-------|-------|-------|-----|-------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | | | | | | | |
| 01 | 03:55 | 3.2 | 17 | 05:17 | 3.2 | 01 | 05:01 | 3.5 | 17 | 05:46 | 3.1 | 01 | 04:00 | 3.6 | 17 | 04:45 | 3.1 | | | | | | |
| | 09:49 | 0.7 | | 11:11 | 0.8 | | 10:53 | 0.5 | | 11:40 | 0.9 | | 09:50 | 0.3 | | 10:33 | 0.8 | | | | | | |
| | 16:17 | 3.0 | | SEX | 17:36 | | 2.9 | SÁB | | 17:23 | 3.2 | | SEG | 18:01 | | 2.9 | SÁB | 16:21 | 3.4 | SEG | 16:57 | 3.1 | |
| | 21:57 | 0.8 | | 23:14 | 0.9 | | 23:03 | 0.6 | | 23:49 | 1.0 | | 22:02 | 0.4 | | 22:45 | 0.8 | | | | | | |
| 02 | 04:35 | 3.3 | 18 | 05:52 | 3.1 | 02 | 05:43 | 3.4 | 18 | 06:16 | 2.9 | 02 | 04:40 | 3.6 | 18 | 05:12 | 3.0 | | | | | | |
| | 10:30 | 0.7 | | 11:48 | 0.9 | | 11:34 | 0.5 | | 12:12 | 1.1 | | 10:28 | 0.3 | | 11:01 | 0.9 | | | | | | |
| | QUI | 16:58 | | 3.0 | SÁB | | 18:10 | 2.8 | | DOM | 18:04 | | 3.2 | TER | | 18:33 | 2.8 | DOM | 17:00 | 3.4 | TER | 17:26 | 3.0 |
| | 22:38 | 0.8 | | 23:52 | 1.0 | | 23:46 | 0.7 | | 22:42 | 0.4 | | 22:42 | 0.4 | | 23:16 | 0.9 | | | | | | |
| 03 | 05:17 | 3.3 | 19 | 06:26 | 3.0 | 03 | 06:26 | 3.3 | 19 | 00:25 | 1.2 | 03 | 05:21 | 3.5 | 19 | 05:41 | 2.9 | | | | | | |
| | 11:12 | 0.7 | | 12:25 | 1.0 | | 12:17 | 0.7 | | 06:49 | 2.7 | | 11:08 | 0.5 | | 11:30 | 1.0 | | | | | | |
| | SEX | 17:41 | | 3.0 | DOM | | 18:44 | 2.7 | | SEG | 18:49 | | 3.0 | QUA | | 12:48 | 1.2 | SEG | 17:41 | 3.3 | QUA | 17:57 | 2.9 |
| | 23:21 | 0.8 | | 19:23 | 2.6 | | 19:12 | 2.6 | | 19:12 | 2.6 | | 23:25 | 0.5 | | 23:49 | 1.1 | | | | | | |
| 04 | 06:01 | 3.2 | 20 | 00:31 | 1.1 | 04 | 00:33 | 0.8 | 20 | 01:09 | 1.3 | 04 | 06:04 | 3.3 | 20 | 06:13 | 2.7 | | | | | | |
| | 11:57 | 0.7 | | 07:01 | 2.8 | | 07:13 | 3.1 | | 07:31 | 2.5 | | 11:51 | 0.7 | | 12:02 | 1.2 | | | | | | |
| | SÁB | 18:26 | | 2.9 | SEG | | 13:05 | 1.1 | | TER | 13:06 | | 0.9 | QUI | | 13:34 | 1.4 | TER | 18:24 | 3.1 | QUI | 18:34 | 2.7 |
| | | | | 19:23 | 2.6 | | 19:39 | 2.9 | | 19:39 | 2.9 | | 20:03 | 2.5 | | 20:03 | 2.5 | | | | | | |
| 05 | 00:07 | 0.9 | 21 | 01:15 | 1.3 | 05 | 01:28 | 1.0 | 21 | 02:12 | 1.5 | 05 | 00:12 | 0.7 | 21 | 00:29 | 1.3 | | | | | | |
| | 06:47 | 3.2 | | 07:41 | 2.7 | | 08:09 | 2.9 | | 08:31 | 2.4 | | 06:51 | 3.1 | | 06:54 | 2.6 | | | | | | |
| | DOM | 12:46 | | 0.8 | TER | | 13:51 | 1.3 | | QUA | 14:04 | | 1.1 | SEX | | 14:49 | 1.5 | QUA | 12:38 | 0.9 | SEX | 12:42 | 1.4 |
| | 19:16 | 2.9 | | ((| 20:11 | | 2.5 |) | | 20:42 | 2.7 | | 21:22 | 2.4 | | 19:13 | 2.9 | 19:21 | 2.6 | | | | |
| 06 | 00:59 | 1.0 | 22 | 02:09 | 1.4 | 06 | 02:38 | 1.2 | 22 | 03:47 | 1.5 | 06 | 01:07 | 1.0 | 22 | 01:28 | 1.4 | | | | | | |
| | 07:39 | 3.1 | | 08:32 | 2.5 | | 09:22 | 2.7 | | 10:14 | 2.3 | | 07:48 | 2.8 | | 07:51 | 2.4 | | | | | | |
| | SEG | 13:39 | | 0.9 | QUA | | 14:48 | 1.4 | | QUI | 15:19 | | 1.3 | SÁB | | 16:27 | 1.6 | QUI | 13:36 | 1.2 | SÁB | 13:52 | 1.6 |
| |) | 20:12 | | 2.8 | 21:16 | | 2.5 | 22:05 | | 2.6 | 23:03 | | 2.5 |) | | 20:17 | 2.7 | ((| 20:32 | 2.4 | | | |
| 07 | 01:59 | 1.1 | 23 | 03:19 | 1.5 | 07 | 04:09 | 1.3 | 23 | 05:19 | 1.5 | 07 | 02:22 | 1.2 | 23 | 03:07 | 1.5 | | | | | | |
| | 08:38 | 2.9 | | 09:44 | 2.4 | | 10:51 | 2.6 | | 11:50 | 2.4 | | 09:08 | 2.6 | | 09:32 | 2.3 | | | | | | |
| | TER | 14:41 | | 1.0 | QUI | | 15:59 | 1.5 | | SEX | 16:48 | | 1.3 | DOM | | 17:44 | 1.4 | SEX | 14:59 | 1.4 | DOM | 15:45 | 1.6 |
| | 21:18 | 2.7 | | 22:35 | 2.5 | | 23:30 | 2.7 | | 21:47 | 2.6 | | 21:47 | 2.6 | | 22:17 | 2.5 | | | | | | |
| 08 | 03:08 | 1.2 | 24 | 04:38 | 1.5 | 08 | 05:41 | 1.2 | 24 | 00:16 | 2.6 | 08 | 04:06 | 1.3 | 24 | 04:43 | 1.4 | | | | | | |
| | 09:49 | 2.8 | | 11:07 | 2.4 | | 12:11 | 2.7 | | 06:25 | 1.3 | | 10:46 | 2.5 | | 11:20 | 2.4 | | | | | | |
| | QUA | 15:51 | | 1.1 | SEX | | 17:11 | 1.4 | | SÁB | 18:07 | | 1.3 | SEG | | 16:42 | 1.5 | SEG | 17:10 | 1.5 | | | |
| | 22:32 | 2.7 | | 23:47 | 2.5 | | 18:40 | 1.2 | | 23:20 | 2.6 | | 23:41 | 2.6 | | | | | | | | | |
| 09 | 04:25 | 1.2 | 25 | 05:51 | 1.4 | 09 | 00:40 | 2.8 | 25 | 01:11 | 2.9 | 09 | 05:44 | 1.2 | 25 | 05:52 | 1.2 | | | | | | |
| | 11:05 | 2.8 | | 12:17 | 2.5 | | 06:52 | 1.1 | | 07:13 | 1.0 | | 12:09 | 2.6 | | 12:25 | 2.6 | | | | | | |
| | QUI | 17:03 | | 1.1 | SÁB | | 18:13 | 1.3 | | DOM | 13:15 | | 2.8 | TER | | 13:41 | 2.8 | DOM | 18:04 | 1.3 | TER | 18:09 | 1.2 |
| | 23:43 | 2.8 | | 19:06 | 1.1 | | 19:06 | 1.1 | | 19:25 | 1.0 | | 18:04 | 1.3 | | | | | | | | | |
| 10 | 05:41 | 1.1 | 26 | 00:45 | 2.7 | 10 | 01:37 | 3.0 | 26 | 01:57 | 3.1 | 10 | 00:31 | 2.8 | 26 | 00:39 | 2.9 | | | | | | |
| | 12:15 | 2.8 | | 06:48 | 1.2 | | 07:45 | 0.9 | | 07:55 | 0.8 | | 06:49 | 1.1 | | 06:42 | 0.9 | | | | | | |
| | SEX | 18:10 | | 1.1 | DOM | | 13:13 | 2.6 | | SEG | 14:07 | | 2.9 | QUA | | 14:23 | 3.0 | SEG | 13:08 | 2.7 | QUA | 13:13 | 2.9 |
| | | | | 19:02 | 1.2 | | 19:53 | 1.0 | | 20:05 | 0.8 | | 18:59 | 1.2 | | 18:56 | 1.0 | | | | | | |
| 11 | 00:46 | 2.9 | 27 | 01:34 | 2.9 | 11 | 02:25 | 3.2 | 27 | 02:39 | 3.3 | 11 | 01:25 | 3.0 | 27 | 01:27 | 3.1 | | | | | | |
| | 06:48 | 1.0 | | 07:35 | 1.1 | | 08:27 | 0.8 | | 08:33 | 0.6 | | 07:34 | 0.9 | | 07:25 | 0.7 | | | | | | |
| | SÁB | 13:17 | | 2.9 | SEG | | 14:00 | 2.8 | | TER | 14:50 | | 3.0 | QUI | | 15:03 | 3.2 | TER | 13:53 | 2.9 | QUI | 13:56 | 3.1 |
| | 19:07 | 1.0 | | 19:45 | 1.0 | | 20:32 | 0.8 | | 20:44 | 0.6 | | 19:39 | 1.0 | | 19:38 | 0.7 | | | | | | |
| 12 | 01:42 | 3.1 | 28 | 02:18 | 3.1 | 12 | 03:06 | 3.3 | 28 | 03:20 | 3.5 | 12 | 02:09 | 3.1 | 28 | 02:11 | 3.4 | | | | | | |
| | 07:44 | 0.8 | | 08:16 | 0.9 | | 09:04 | 0.7 | | 09:11 | 0.4 | | 08:10 | 0.8 | | 08:05 | 0.5 | | | | | | |
| | DOM | 14:11 | | 3.0 | TER | | 14:43 | 2.9 | | QUA | 15:28 | | 3.1 | QUA | | 14:31 | 3.0 | SEX | 14:36 | 3.3 | | | |
| | 19:57 | 0.9 | | 20:25 | 0.9 | | 21:07 | 0.8 | | 21:23 | 0.4 | | 20:14 | 0.9 | | 20:19 | 0.5 | | | | | | |
| 13 | 02:32 | 3.2 | 29 | 03:00 | 3.2 | 13 | 03:44 | 3.3 | 29 | 03:20 | 3.5 | 13 | 02:46 | 3.2 | 29 | 02:54 | 3.6 | | | | | | |
| | 08:32 | 0.7 | | 08:56 | 0.7 | | 09:37 | 0.6 | | 08:41 | 0.7 | | 08:41 | 0.7 | | 08:44 | 0.3 | | | | | | |
| | SEG | 14:59 | | 3.1 | QUA | | 15:23 | 3.1 | | QUI | 16:02 | | 3.1 | QUI | | 15:04 | 3.1 | SÁB | 15:16 | 3.5 | | | |
| | ○ | 20:41 | | 0.8 | ● | | 21:04 | 0.7 | | 21:40 | 0.7 | | 20:45 | 0.8 | | ● | 20:59 | 0.3 | | | | | |
| 14 | 03:18 | 3.3 | 30 | 03:41 | 3.4 | 14 | 04:18 | 3.3 | 30 | 03:19 | 3.3 | 14 | 03:19 | 3.3 | 30 | 03:36 | 3.6 | | | | | | |
| | 09:16 | 0.7 | | 09:34 | 0.6 | | 10:08 | 0.6 | | 10:08 | 0.6 | | 09:10 | 0.7 | | 09:24 | 0.3 | | | | | | |
| | TER | 15:43 | | 3.1 | QUI | | 16:03 | 3.2 | | SEX | 16:34 | | 3.1 | SEX | | 15:35 | 3.1 | DOM | 15:56 | 3.5 | | | |
| | 21:22 | 0.8 | | 21:43 | 0.6 | | 22:12 | 0.7 | | 22:12 | 0.7 | | 21:15 | 0.7 | | 21:40 | 0.3 | | | | | | |
| 15 | 04:01 | 3.3 | 31 | 04:21 | 3.5 | 15 | 04:49 | 3.3 | 31 | 03:50 | 3.3 | 15 | 03:50 | 3.3 | 31 | 04:18 | 3.6 | | | | | | |
| | 09:57 | 0.6 | | 10:13 | 0.5 | | 10:39 | 0.7 | | 10:39 | 0.7 | | 09:37 | 0.7 | | 10:03 | 0.3 | | | | | | |
| | QUA | 16:23 | | 3.1 | SEX | | 16:43 | 3.2 | | SÁB | 17:03 | | 3.1 | SÁB | | 16:03 | 3.2 | SEG | 16:37 | 3.5 | | | |
| | 22:01 | 0.8 | | 22:22 | 0.6 | | 22:44 | 0.8 | | 22:44 | 0.8 | | 21:45 | 0.7 | | 22:23 | 0.4 | | | | | | |
| 16 | 04:40 | 3.3 | 16 | 05:18 | 3.2 | 16 | 05:18 | 3.2 | 16 | 04:18 | 3.2 | 16 | 04:18 | 3.2 | 16 | 04:18 | 3.6 | | | | | | |
| | 10:35 | 0.7 | | 11:09 | 0.8 | | 11:09 | 0.8 | | 10:05 | 0.7 | | 10:05 | 0.7 | | 10:03 | 0.3 | | | | | | |
| | QUI | 17:01 | | 3.0 | DOM | | 17:31 | 3.0 | | DOM | 16:30 | | 3.1 | DOM | | 16:30 | 3.1 | SEG | 16:37 | 3.5 | | | |
| | 22:38 | 0.8 | | 23:16 | 0.9 | | 23:16 | 0.9 | | 22:14 | 0.7 | | 22:14 | 0.7 | | | | | | | | | |

Porto de Aveiro

Latitude 40° 38.65' N Longitude 8° 44.92' W

Horas do Fuso: 0 (TU)

Ano: 2025

| ABRIL | | | | MAIO | | | | JUNHO | | | | | | | | | |
|-----------|-------|--------|-----------|-------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-----|-----------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 05:01 | 3.5 | 17 | 05:16 | 2.8 | 01 | 05:33 | 3.1 | 17 | 05:42 | 2.7 | 01 | 00:37 | 0.9 | 17 | 00:45 | 1.0 |
| | 10:44 | 0.5 | | 11:00 | 1.0 | | 11:12 | 0.8 | | 11:23 | 1.2 | | 07:08 | 2.7 | | 07:12 | 2.7 |
| TER | 17:19 | 3.4 | QUI | 17:33 | 2.9 | QUI | 17:52 | 3.2 | SÁB | 18:02 | 2.9 | DOM | 12:45 | 1.2 | TER | 12:56 | 1.1 |
| | 23:07 | 0.5 | | 23:27 | 1.1 | | 23:50 | 0.8 | | | | | 19:28 | 2.9 | | 19:32 | 2.9 |
| 02 | 05:46 | 3.3 | 18 | 05:51 | 2.7 | 02 | 06:25 | 2.9 | 18 | 00:06 | 1.1 | 02 | 01:36 | 1.1 | 18 | 01:40 | 1.0 |
| | 11:28 | 0.7 | | 11:34 | 1.2 | | 12:04 | 1.1 | | 06:29 | 2.6 | | 08:08 | 2.6 | | 08:08 | 2.7 |
| QUA | 18:05 | 3.2 | SEX | 18:12 | 2.8 | SEX | 18:46 | 3.0 | DOM | 12:13 | 1.3 | SEG | 13:46 | 1.3 | QUA | 13:56 | 1.2 |
| | 23:57 | 0.8 | | | | | | | | 18:52 | 2.8 | | 20:29 | 2.8 | ⊂ | 20:30 | 2.9 |
| 03 | 06:36 | 3.0 | 19 | 00:12 | 1.2 | 03 | 00:51 | 1.0 | 19 | 01:04 | 1.2 | 03 | 02:39 | 1.2 | 19 | 02:40 | 1.0 |
| | 12:17 | 1.0 | | 06:35 | 2.6 | | 07:27 | 2.7 | | 07:27 | 2.5 | | 09:13 | 2.5 | | 09:12 | 2.7 |
| QUI | 18:56 | 2.9 | SÁB | 12:18 | 1.4 | SÁB | 13:06 | 1.3 | SEG | 13:17 | 1.4 | TER | 14:51 | 1.4 | QUI | 15:02 | 1.2 |
| | | | | 19:00 | 2.7 | | 19:51 | 2.8 | | 19:52 | 2.7 | ⊃ | 21:33 | 2.7 | | 21:35 | 2.9 |
| 04 | 00:57 | 1.0 | 20 | 01:14 | 1.3 | 04 | 02:05 | 1.2 | 20 | 02:11 | 1.2 | 04 | 03:43 | 1.2 | 20 | 03:43 | 1.0 |
| | 07:37 | 2.7 | | 07:35 | 2.4 | | 08:41 | 2.5 | | 08:39 | 2.5 | | 10:17 | 2.5 | | 10:19 | 2.8 |
| SEX | 13:19 | 1.3 | DOM | 13:30 | 1.5 | DOM | 14:22 | 1.4 | TER | 14:31 | 1.4 | QUA | 15:57 | 1.4 | SEX | 16:10 | 1.1 |
| | 20:04 | 2.7 | | 20:08 | 2.6 | ⊃ | 21:07 | 2.7 | ⊂ | 21:02 | 2.7 | | 22:36 | 2.7 | | 22:44 | 2.9 |
| 05 | 02:17 | 1.2 | 21 | 02:39 | 1.4 | 05 | 03:27 | 1.2 | 21 | 03:21 | 1.1 | 05 | 04:43 | 1.2 | 21 | 04:47 | 1.0 |
| | 08:59 | 2.5 | | 09:05 | 2.4 | | 10:02 | 2.5 | | 09:55 | 2.6 | | 11:15 | 2.6 | | 11:24 | 2.9 |
| SÁB | 14:45 | 1.5 | SEG | 15:07 | 1.5 | SEG | 15:44 | 1.4 | QUA | 15:44 | 1.3 | QUI | 16:59 | 1.3 | SÁB | 17:16 | 1.0 |
| ⊃ | 21:32 | 2.6 | ⊂ | 21:37 | 2.6 | | 22:24 | 2.7 | | 22:14 | 2.8 | | 23:33 | 2.7 | | 23:50 | 3.0 |
| 06 | 03:58 | 1.3 | 22 | 04:03 | 1.3 | 06 | 04:44 | 1.2 | 22 | 04:26 | 1.0 | 06 | 05:34 | 1.2 | 22 | 05:48 | 0.9 |
| | 10:34 | 2.5 | | 10:40 | 2.5 | | 11:13 | 2.5 | | 11:03 | 2.7 | | 12:04 | 2.7 | | 12:24 | 3.0 |
| DOM | 16:24 | 1.5 | TER | 16:28 | 1.4 | TER | 16:57 | 1.4 | QUI | 16:48 | 1.1 | SEX | 17:52 | 1.3 | DOM | 18:19 | 0.9 |
| | 23:00 | 2.7 | | 22:58 | 2.7 | | 23:29 | 2.8 | | 23:20 | 3.0 | | | | | | |
| 07 | 05:26 | 1.2 | 23 | 05:10 | 1.1 | 07 | 05:43 | 1.2 | 23 | 05:24 | 0.9 | 07 | 00:22 | 2.7 | 23 | 00:52 | 3.0 |
| | 11:51 | 2.6 | | 11:46 | 2.7 | | 12:07 | 2.7 | | 12:00 | 2.9 | | 06:18 | 1.2 | | 06:44 | 0.8 |
| SEG | 17:42 | 1.4 | QUA | 17:30 | 1.2 | QUA | 17:53 | 1.3 | SEX | 17:46 | 1.0 | SÁB | 12:47 | 2.8 | SEG | 13:20 | 3.1 |
| | | | | | | | | | | | | | 18:38 | 1.2 | | 19:17 | 0.8 |
| 08 | 00:08 | 2.8 | 24 | 00:01 | 2.9 | 08 | 00:22 | 2.8 | 24 | 00:18 | 3.1 | 08 | 01:05 | 2.8 | 24 | 01:49 | 3.1 |
| | 06:26 | 1.1 | | 06:04 | 0.9 | | 06:27 | 1.1 | | 06:17 | 0.7 | | 06:57 | 1.1 | | 07:37 | 0.8 |
| TER | 12:46 | 2.7 | QUI | 12:38 | 2.9 | QUI | 12:50 | 2.8 | SÁB | 12:51 | 3.1 | DOM | 13:27 | 2.9 | TER | 14:13 | 3.2 |
| | 18:34 | 1.2 | | 18:21 | 0.9 | | 18:37 | 1.1 | | 18:39 | 0.8 | | 19:19 | 1.1 | | 20:11 | 0.6 |
| 09 | 01:00 | 2.9 | 25 | 00:53 | 3.2 | 09 | 01:05 | 2.9 | 25 | 01:12 | 3.2 | 09 | 01:45 | 2.8 | 25 | 02:43 | 3.2 |
| | 07:08 | 1.0 | | 06:51 | 0.7 | | 07:03 | 1.0 | | 07:06 | 0.6 | | 07:33 | 1.0 | | 08:26 | 0.7 |
| QUA | 13:27 | 2.9 | SEX | 13:23 | 3.1 | SEX | 13:27 | 2.9 | DOM | 13:40 | 3.2 | SEG | 14:04 | 3.0 | QUA | 15:04 | 3.3 |
| | 19:14 | 1.1 | | 19:08 | 0.7 | | 19:14 | 1.0 | | 19:30 | 0.6 | | 19:58 | 1.0 | ● | 21:02 | 0.6 |
| 10 | 01:41 | 3.1 | 26 | 01:41 | 3.4 | 10 | 01:42 | 3.0 | 26 | 02:03 | 3.3 | 10 | 02:22 | 2.8 | 26 | 03:33 | 3.2 |
| | 07:41 | 0.9 | | 07:35 | 0.5 | | 07:34 | 0.9 | | 07:53 | 0.5 | | 08:08 | 1.0 | | 09:14 | 0.7 |
| QUI | 14:03 | 3.0 | SÁB | 14:07 | 3.3 | SÁB | 14:01 | 3.0 | SEG | 14:28 | 3.4 | TER | 14:41 | 3.0 | QUI | 15:53 | 3.4 |
| | 19:47 | 0.9 | | 19:52 | 0.5 | | 19:48 | 0.9 | | 20:19 | 0.5 | | 20:35 | 1.0 | | 21:50 | 0.6 |
| 11 | 02:17 | 3.1 | 27 | 02:27 | 3.5 | 11 | 02:16 | 3.0 | 27 | 02:54 | 3.3 | 11 | 02:59 | 2.9 | 27 | 04:22 | 3.1 |
| | 08:10 | 0.8 | | 08:17 | 0.4 | | 08:04 | 0.9 | | 08:39 | 0.5 | | 08:43 | 1.0 | | 10:00 | 0.7 |
| SEX | 14:34 | 3.1 | DOM | 14:50 | 3.4 | DOM | 14:33 | 3.1 | TER | 15:15 | 3.4 | QUA | 15:18 | 3.1 | SEX | 16:41 | 3.4 |
| | 20:18 | 0.8 | ● | 20:37 | 0.4 | | 20:21 | 0.9 | ● | 21:08 | 0.5 | ○ | 21:12 | 0.9 | | 22:38 | 0.6 |
| 12 | 02:49 | 3.2 | 28 | 03:12 | 3.5 | 12 | 02:48 | 3.0 | 28 | 03:43 | 3.3 | 12 | 03:37 | 2.9 | 28 | 05:08 | 3.1 |
| | 08:37 | 0.8 | | 08:59 | 0.4 | | 08:34 | 0.9 | | 09:25 | 0.6 | | 09:19 | 0.9 | | 10:45 | 0.8 |
| SÁB | 15:04 | 3.1 | SEG | 15:33 | 3.5 | SEG | 15:04 | 3.1 | QUA | 16:03 | 3.4 | QUI | 15:55 | 3.1 | SÁB | 17:27 | 3.3 |
| | 20:47 | 0.8 | | 21:21 | 0.3 | ○ | 20:53 | 0.9 | | 21:58 | 0.5 | | 21:50 | 0.9 | | 23:24 | 0.7 |
| 13 | 03:19 | 3.2 | 29 | 03:58 | 3.5 | 13 | 03:20 | 3.0 | 29 | 04:32 | 3.2 | 13 | 04:15 | 2.9 | 29 | 05:53 | 2.9 |
| | 09:05 | 0.7 | | 09:41 | 0.4 | | 09:04 | 0.9 | | 10:11 | 0.7 | | 09:56 | 1.0 | | 11:29 | 0.9 |
| DOM | 15:33 | 3.2 | TER | 16:17 | 3.5 | TER | 15:36 | 3.1 | QUI | 16:52 | 3.3 | SEX | 16:33 | 3.1 | DOM | 18:11 | 3.2 |
| ○ | 21:17 | 0.8 | | 22:07 | 0.4 | | 21:26 | 0.9 | | 22:48 | 0.6 | | 22:29 | 0.9 | | | |
| 14 | 03:47 | 3.1 | 30 | 04:44 | 3.3 | 14 | 03:52 | 2.9 | 30 | 05:22 | 3.1 | 14 | 04:54 | 2.8 | 30 | 00:09 | 0.8 |
| | 09:32 | 0.8 | | 10:25 | 0.6 | | 09:36 | 0.9 | | 10:59 | 0.8 | | 10:34 | 1.0 | | 06:38 | 2.8 |
| SEG | 16:01 | 3.1 | QUA | 17:03 | 3.4 | QUA | 16:09 | 3.1 | SEX | 17:41 | 3.2 | SÁB | 17:13 | 3.1 | SEG | 12:15 | 1.0 |
| | 21:48 | 0.8 | | 22:56 | 0.6 | | 22:01 | 0.9 | | 23:41 | 0.8 | | 23:10 | 0.9 | | 18:56 | 3.0 |
| 15 | 04:15 | 3.1 | | | | 15 | 04:26 | 2.9 | 31 | 06:13 | 2.9 | 15 | 05:36 | 2.8 | | | |
| | 10:01 | 0.8 | | | | | 10:08 | 1.0 | | 11:50 | 1.0 | | 11:16 | 1.0 | | | |
| TER | 16:29 | 3.1 | | | | QUI | 16:43 | 3.0 | SÁB | 18:33 | 3.1 | DOM | 17:55 | 3.0 | | | |
| | 22:19 | 0.8 | | | | | 22:38 | 1.0 | | | | | 23:55 | 0.9 | | | |
| 16 | 04:44 | 3.0 | | | | 16 | 05:02 | 2.8 | | | | 16 | 06:22 | 2.8 | | | |
| | 10:29 | 0.9 | | | | | 10:43 | 1.1 | | | | | 12:03 | 1.1 | | | |
| QUA | 17:00 | 3.0 | | | | SEX | 17:21 | 2.9 | | | | | 18:41 | 3.0 | | | |
| | 22:51 | 0.9 | | | | | 23:18 | 1.0 | | | | | | | | | |

Porto de Aveiro

Latitude 40° 38.65' N Longitude 8° 44.92' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JULHO | | | | AGOSTO | | | | SETEMBRO | | | | | | | | | |
|-----------|-------|--------|-----------|--------|--------|-----------|--------|----------|-----------|-------|--------|-----------|-------|-----|-----------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 00:56 | 1.0 | 17 | 01:07 | 0.9 | 01 | 01:32 | 1.2 | 17 | 02:32 | 1.5 | 01 | 02:32 | 1.5 | 17 | 05:26 | 1.3 |
| | 07:23 | 2.7 | | 07:37 | 2.8 | | 07:55 | 2.6 | | 09:18 | 2.7 | | 09:06 | 2.4 | | 11:57 | 2.8 |
| TER | 13:02 | 1.2 | QUI | 13:24 | 1.0 | SEX | 13:52 | 1.4 | DOM | 15:24 | 1.2 | SEG | 15:35 | 1.6 | QUA | 18:16 | 1.1 |
| | 19:41 | 2.9 | | 20:00 | 3.0 |) | 20:16 | 2.6 | | 22:05 | 2.6 | | 21:57 | 2.3 | | | |
| 02 | 01:44 | 1.1 | 18 | 02:01 | 1.0 | 02 | 02:25 | 1.4 | 18 | 04:02 | 1.3 | 02 | 04:10 | 1.6 | 18 | 00:38 | 2.7 |
| | 08:12 | 2.6 | | 08:34 | 2.8 | | 08:53 | 2.5 | | 10:46 | 2.7 | | 10:44 | 2.4 | | 06:27 | 1.2 |
| QUA | 13:55 | 1.3 | SEX | 14:26 | 1.1 | SÁB | 14:58 | 1.5 | SEG | 16:58 | 1.2 | TER | 17:07 | 1.5 | QUI | 12:55 | 3.0 |
|) | 20:32 | 2.7 | (| 21:02 | 2.9 | | 21:21 | 2.4 | | 23:32 | 2.6 | | 23:34 | 2.4 | | 19:06 | 0.9 |
| 03 | 02:37 | 1.2 | 19 | 03:05 | 1.1 | 03 | 03:34 | 1.5 | 19 | 05:26 | 1.3 | 03 | 05:28 | 1.5 | 19 | 01:27 | 2.9 |
| | 09:08 | 2.5 | | 09:43 | 2.7 | | 10:09 | 2.5 | | 12:04 | 2.8 | | 11:59 | 2.6 | | 07:13 | 1.0 |
| QUI | 14:53 | 1.4 | SÁB | 15:39 | 1.2 | DOM | 16:18 | 1.5 | TER | 18:17 | 1.1 | QUA | 18:12 | 1.3 | SEX | 13:42 | 3.2 |
| | 21:29 | 2.6 | | 22:17 | 2.8 | | 22:45 | 2.4 | | | | | | | | 19:46 | 0.8 |
| 04 | 03:34 | 1.3 | 20 | 04:18 | 1.1 | 04 | 04:49 | 1.5 | 20 | 00:43 | 2.7 | 04 | 00:37 | 2.5 | 20 | 02:08 | 3.0 |
| | 10:10 | 2.5 | | 10:58 | 2.8 | | 11:25 | 2.5 | | 06:33 | 1.1 | | 06:24 | 1.3 | | 07:50 | 0.8 |
| SEX | 15:59 | 1.4 | DOM | 16:58 | 1.1 | SEG | 17:35 | 1.4 | QUA | 13:06 | 3.0 | QUI | 12:53 | 2.8 | SÁB | 14:23 | 3.3 |
| | 22:33 | 2.5 | | 23:34 | 2.8 | | | | | 19:16 | 0.9 | | 18:58 | 1.1 | | 20:19 | 0.7 |
| 05 | 04:35 | 1.3 | 21 | 05:30 | 1.1 | 05 | 00:00 | 2.4 | 21 | 01:39 | 2.9 | 05 | 01:24 | 2.7 | 21 | 02:44 | 3.1 |
| | 11:11 | 2.6 | | 12:09 | 2.9 | | 05:55 | 1.4 | | 07:25 | 1.0 | | 07:07 | 1.1 | | 08:24 | 0.7 |
| SÁB | 17:05 | 1.4 | SEG | 18:12 | 1.0 | TER | 12:27 | 2.6 | QUI | 13:58 | 3.2 | SEX | 13:37 | 3.0 | DOM | 14:59 | 3.3 |
| | 23:34 | 2.5 | | | | | 18:36 | 1.3 | | 20:02 | 0.7 | | 19:37 | 0.9 | ● | 20:50 | 0.6 |
| 06 | 05:32 | 1.3 | 22 | 00:44 | 2.9 | 06 | 00:58 | 2.6 | 22 | 02:26 | 3.0 | 06 | 02:04 | 2.9 | 22 | 03:16 | 3.2 |
| | 12:06 | 2.6 | | 06:34 | 1.0 | | 06:47 | 1.3 | | 08:08 | 0.8 | | 07:46 | 0.9 | | 08:56 | 0.7 |
| DOM | 18:04 | 1.3 | TER | 13:11 | 3.0 | QUA | 13:18 | 2.8 | SEX | 14:43 | 3.3 | SÁB | 14:18 | 3.2 | SEG | 15:31 | 3.3 |
| | | | | 19:15 | 0.9 | | 19:23 | 1.1 | | 20:42 | 0.6 | | 20:14 | 0.6 | | 21:19 | 0.6 |
| 07 | 00:30 | 2.6 | 23 | 01:44 | 3.0 | 07 | 01:46 | 2.7 | 23 | 03:07 | 3.1 | 07 | 02:42 | 3.1 | 23 | 03:47 | 3.2 |
| | 06:23 | 1.3 | | 07:30 | 0.9 | | 07:31 | 1.1 | | 08:46 | 0.7 | | 08:23 | 0.7 | | 09:27 | 0.7 |
| SEG | 12:55 | 2.7 | QUA | 14:06 | 3.2 | QUI | 14:03 | 3.0 | SÁB | 15:23 | 3.4 | DOM | 14:57 | 3.4 | TER | 16:02 | 3.2 |
| | 18:56 | 1.2 | | 20:08 | 0.7 | | 20:03 | 1.0 | ● | 21:17 | 0.6 | ○ | 20:50 | 0.5 | | 21:48 | 0.7 |
| 08 | 01:18 | 2.6 | 24 | 02:36 | 3.0 | 08 | 02:28 | 2.9 | 24 | 03:44 | 3.1 | 08 | 03:19 | 3.3 | 24 | 04:15 | 3.1 |
| | 07:08 | 1.2 | | 08:19 | 0.8 | | 08:10 | 1.0 | | 09:22 | 0.7 | | 09:00 | 0.5 | | 09:58 | 0.7 |
| TER | 13:40 | 2.9 | QUI | 14:56 | 3.3 | SEX | 14:44 | 3.1 | DOM | 16:00 | 3.4 | SEG | 15:36 | 3.5 | QUA | 16:30 | 3.1 |
| | 19:40 | 1.1 | ● | 20:55 | 0.6 | | 20:40 | 0.8 | | 21:51 | 0.6 | | 21:26 | 0.4 | | 22:17 | 0.8 |
| 09 | 02:03 | 2.7 | 25 | 03:23 | 3.1 | 09 | 03:07 | 3.0 | 25 | 04:18 | 3.1 | 09 | 03:57 | 3.4 | 25 | 04:43 | 3.1 |
| | 07:49 | 1.1 | | 09:03 | 0.7 | | 08:47 | 0.8 | | 09:56 | 0.7 | | 09:38 | 0.4 | | 10:29 | 0.8 |
| QUA | 14:22 | 3.0 | SEX | 15:42 | 3.4 | SÁB | 15:23 | 3.3 | SEG | 16:34 | 3.3 | TER | 16:15 | 3.6 | QUI | 16:57 | 3.0 |
| | 20:21 | 1.0 | | 21:38 | 0.6 | ○ | 21:17 | 0.6 | | 22:23 | 0.6 | | 22:03 | 0.4 | | 22:46 | 0.9 |
| 10 | 02:44 | 2.8 | 26 | 04:07 | 3.1 | 10 | 03:45 | 3.1 | 26 | 04:50 | 3.1 | 10 | 04:35 | 3.4 | 26 | 05:12 | 3.0 |
| | 08:28 | 1.0 | | 09:44 | 0.7 | | 09:24 | 0.7 | | 10:29 | 0.7 | | 10:17 | 0.4 | | 11:02 | 1.0 |
| QUI | 15:03 | 3.1 | SÁB | 16:24 | 3.4 | DOM | 16:01 | 3.4 | TER | 17:05 | 3.2 | QUA | 16:55 | 3.5 | SEX | 17:26 | 2.9 |
| ○ | 20:59 | 0.9 | | 22:18 | 0.6 | | 21:53 | 0.5 | | 22:54 | 0.8 | | 22:42 | 0.5 | | 23:15 | 1.0 |
| 11 | 03:24 | 2.9 | 27 | 04:47 | 3.1 | 11 | 04:23 | 3.2 | 27 | 05:20 | 3.0 | 11 | 05:15 | 3.3 | 27 | 05:43 | 2.8 |
| | 09:05 | 0.9 | | 10:23 | 0.7 | | 10:02 | 0.6 | | 11:02 | 0.8 | | 10:58 | 0.5 | | 11:37 | 1.1 |
| SEX | 15:42 | 3.1 | DOM | 17:04 | 3.3 | SEG | 16:40 | 3.4 | QUA | 17:35 | 3.1 | QUI | 17:37 | 3.4 | SÁB | 17:59 | 2.7 |
| | 21:37 | 0.8 | | 22:56 | 0.7 | | 22:30 | 0.5 | | 23:26 | 0.9 | | 23:23 | 0.6 | | 23:48 | 1.2 |
| 12 | 04:04 | 2.9 | 28 | 05:24 | 3.0 | 12 | 05:01 | 3.2 | 28 | 05:49 | 2.9 | 12 | 05:57 | 3.2 | 28 | 06:20 | 2.7 |
| | 09:43 | 0.9 | | 11:01 | 0.8 | | 10:40 | 0.6 | | 11:36 | 1.0 | | 11:44 | 0.7 | | 12:18 | 1.3 |
| SÁB | 16:21 | 3.2 | SEG | 17:41 | 3.2 | TER | 17:19 | 3.4 | QUI | 18:04 | 2.9 | SEX | 18:23 | 3.1 | DOM | 18:39 | 2.5 |
| | 22:15 | 0.7 | | 23:33 | 0.8 | | 23:09 | 0.5 | | 23:58 | 1.1 | | | | | | |
| 13 | 04:43 | 3.0 | 29 | 06:00 | 2.9 | 13 | 05:40 | 3.2 | 29 | 06:21 | 2.8 | 13 | 00:08 | 0.9 | 29 | 00:28 | 1.4 |
| | 10:22 | 0.8 | | 11:39 | 0.9 | | 11:21 | 0.7 | | 12:13 | 1.1 | | 06:45 | 3.0 | | 07:08 | 2.6 |
| DOM | 17:00 | 3.2 | TER | 18:16 | 3.1 | QUA | 18:00 | 3.3 | SEX | 18:37 | 2.7 | SÁB | 12:37 | 0.9 | SEG | 13:19 | 1.5 |
| | 22:54 | 0.7 | | | | | 23:50 | 0.6 | | | | | 19:17 | 2.9 |) | 19:36 | 2.3 |
| 14 | 05:23 | 3.0 | 30 | 00:10 | 0.9 | 14 | 06:22 | 3.1 | 30 | 00:34 | 1.2 | 14 | 01:03 | 1.1 | 30 | 01:39 | 1.6 |
| | 11:02 | 0.8 | | 06:35 | 2.8 | | 12:05 | 0.8 | | 06:59 | 2.6 | | 07:44 | 2.8 | | 08:19 | 2.4 |
| SEG | 17:41 | 3.2 | QUA | 12:18 | 1.0 | QUI | 18:44 | 3.2 | SÁB | 12:57 | 1.3 | DOM | 13:47 | 1.2 | TER | 14:57 | 1.5 |
| | 23:35 | 0.7 | | 18:51 | 2.9 | | | | | 19:18 | 2.5 | (| 20:29 | 2.6 | | 21:16 | 2.3 |
| 15 | 06:04 | 3.0 | 31 | 00:49 | 1.1 | 15 | 00:35 | 0.8 | 31 | 01:20 | 1.4 | 15 | 02:19 | 1.3 | 15 | 02:19 | 1.3 |
| | 11:44 | 0.9 | | 07:12 | 2.7 | | 07:08 | 2.9 | | 07:49 | 2.5 | | 09:07 | 2.7 | | 09:07 | 2.7 |
| TER | 18:23 | 3.2 | QUI | 13:01 | 1.2 | SEX | 12:56 | 0.9 | DOM | 14:01 | 1.5 | SEG | 15:24 | 1.3 | | 15:24 | 1.3 |
| | | | | 19:29 | 2.7 | | 19:35 | 3.0 |) | 20:16 | 2.4 | | 22:05 | 2.5 | | 22:05 | 2.5 |
| 16 | 00:19 | 0.8 | | | | 16 | 01:28 | 1.0 | 16 | 03:58 | 1.4 | 16 | 03:58 | 1.4 | | 03:58 | 1.4 |
| | 06:48 | 2.9 | | | | | 08:04 | 2.8 | | 10:40 | 2.7 | | 10:40 | 2.7 | | 10:40 | 2.7 |
| QUA | 12:31 | 0.9 | | | | SÁB | 14:00 | 1.1 | | 17:04 | 1.2 | | 17:04 | 1.2 | | 17:04 | 1.2 |
| | 19:08 | 3.1 | | | | (| 20:40 | 2.8 | | 23:32 | 2.6 | | 23:32 | 2.6 | | 23:32 | 2.6 |

Porto de Aveiro

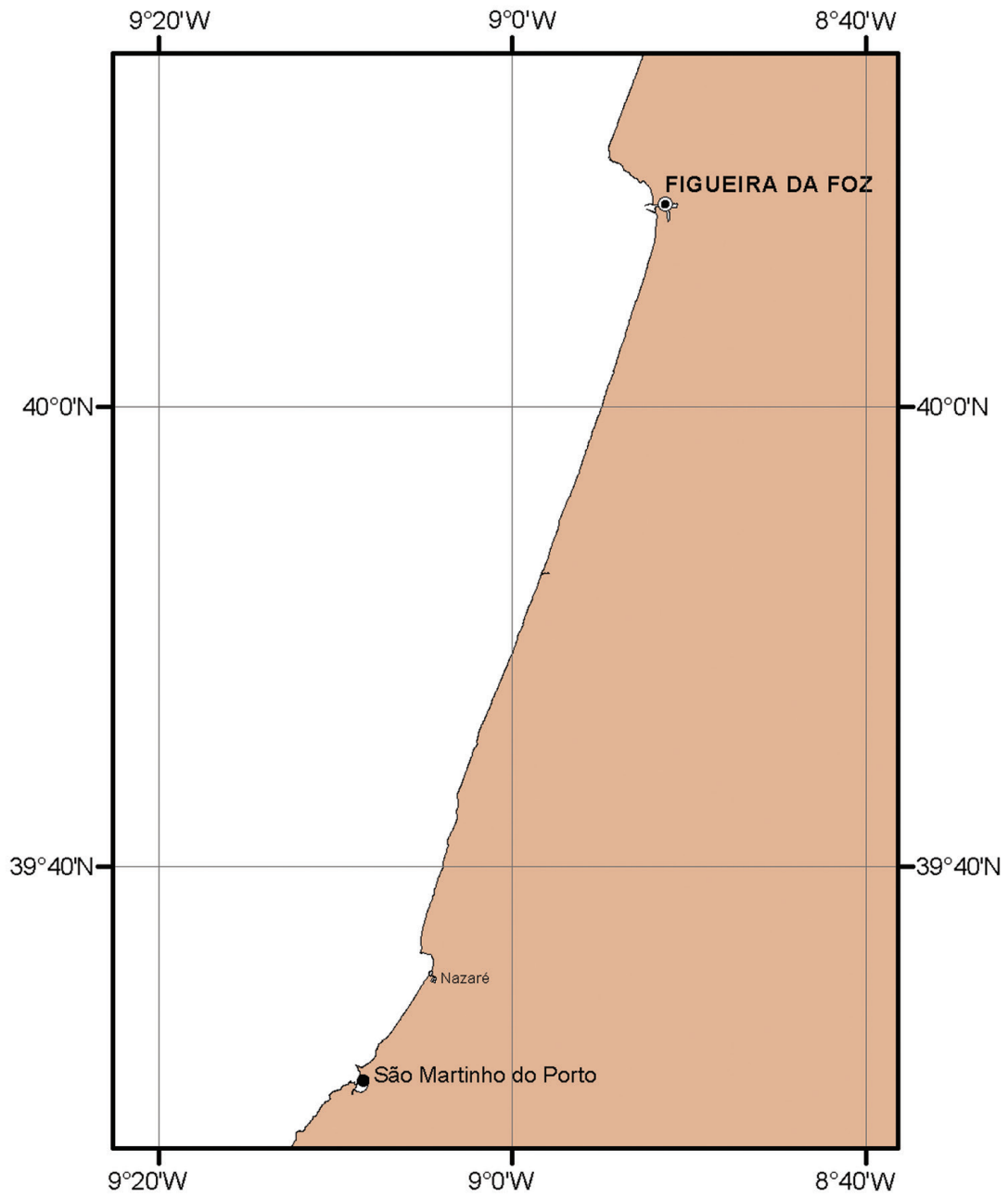
Latitude 40° 38.65' N Longitude 8° 44.92' W

Horas do Fuso: 0 (TU)

Ano: 2025

| OUTUBRO | | | | NOVEMBRO | | | | DEZEMBRO | | | |
|-----------|-------|--------|-----------|----------|--------|-----------|--------|----------|-----------|-------|--------|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura |
| 01 | 03:30 | 1.6 | 17 | 00:17 | 2.7 | 01 | 05:07 | 1.3 | 17 | 01:09 | 2.9 |
| | 10:01 | 2.5 | | 06:06 | 1.2 | | 11:36 | 2.9 | | 06:58 | 1.0 |
| | QUA | 16:30 | SEX | 12:33 | 3.0 | SÁB | 17:41 | 1.0 | SEG | 13:25 | 3.0 |
| | 23:02 | 2.4 | | 18:43 | 0.9 | | | | | 19:19 | 0.9 |
| 02 | 04:53 | 1.5 | 18 | 01:03 | 2.9 | 02 | 00:14 | 2.8 | 18 | 01:45 | 3.0 |
| | 11:22 | 2.6 | | 06:50 | 1.0 | | 05:58 | 1.0 | | 07:33 | 1.0 |
| | QUI | 17:35 | SÁB | 13:17 | 3.1 | DOM | 12:27 | 3.1 | TER | 14:01 | 3.0 |
| | | 1.3 | | 19:20 | 0.8 | | 18:27 | 0.8 | | 19:50 | 0.9 |
| 03 | 00:06 | 2.6 | 19 | 01:41 | 3.0 | 03 | 00:58 | 3.0 | 19 | 02:18 | 3.0 |
| | 05:50 | 1.3 | | 07:26 | 0.9 | | 06:43 | 0.8 | | 08:07 | 0.9 |
| | SEX | 12:19 | DOM | 13:56 | 3.2 | SEG | 13:14 | 3.3 | QUA | 14:34 | 3.0 |
| | 18:23 | 1.0 | | 19:51 | 0.8 | | 19:10 | 0.6 | | 20:20 | 0.9 |
| 04 | 00:52 | 2.8 | 20 | 02:15 | 3.1 | 04 | 01:41 | 3.2 | 20 | 02:50 | 3.1 |
| | 06:35 | 1.0 | | 07:59 | 0.8 | | 07:27 | 0.6 | | 08:40 | 0.9 |
| | SÁB | 13:05 | SEG | 14:30 | 3.2 | TER | 13:59 | 3.4 | QUI | 15:06 | 3.0 |
| | 19:04 | 0.8 | | 20:20 | 0.7 | | 19:51 | 0.4 | ● | 20:51 | 0.9 |
| 05 | 01:33 | 3.0 | 21 | 02:46 | 3.1 | 05 | 02:23 | 3.4 | 21 | 03:22 | 3.1 |
| | 07:16 | 0.8 | | 08:30 | 0.8 | | 08:11 | 0.4 | | 09:14 | 0.9 |
| | DOM | 13:47 | TER | 15:02 | 3.2 | QUA | 14:44 | 3.5 | SEX | 15:38 | 2.9 |
| | 19:42 | 0.6 | ● | 20:48 | 0.7 | ○ | 20:33 | 0.4 | | 21:22 | 0.9 |
| 06 | 02:12 | 3.2 | 22 | 03:16 | 3.1 | 06 | 03:06 | 3.5 | 22 | 03:54 | 3.1 |
| | 07:55 | 0.6 | | 09:01 | 0.8 | | 08:55 | 0.4 | | 09:48 | 0.9 |
| | SEG | 14:28 | QUA | 15:31 | 3.1 | QUI | 15:30 | 3.5 | SÁB | 16:10 | 2.9 |
| | 20:20 | 0.4 | | 21:16 | 0.8 | | 21:15 | 0.4 | | 21:55 | 1.0 |
| 07 | 02:50 | 3.4 | 23 | 03:45 | 3.1 | 07 | 03:50 | 3.5 | 23 | 04:28 | 3.0 |
| | 08:34 | 0.4 | | 09:32 | 0.8 | | 09:41 | 0.4 | | 10:24 | 1.0 |
| | TER | 15:09 | QUI | 15:59 | 3.0 | SEX | 16:17 | 3.4 | DOM | 16:45 | 2.8 |
| | ○ | 20:58 | | 21:45 | 0.8 | | 21:59 | 0.5 | | 22:29 | 1.0 |
| 08 | 03:30 | 3.5 | 24 | 04:14 | 3.1 | 08 | 04:37 | 3.4 | 24 | 05:04 | 3.0 |
| | 09:14 | 0.3 | | 10:04 | 0.9 | | 10:30 | 0.5 | | 11:03 | 1.0 |
| | QUA | 15:50 | SEX | 16:28 | 2.9 | SÁB | 17:06 | 3.2 | SEG | 17:24 | 2.7 |
| | 21:37 | 0.3 | | 22:14 | 0.9 | | 22:46 | 0.7 | | 23:07 | 1.2 |
| 09 | 04:10 | 3.5 | 25 | 04:44 | 3.0 | 09 | 05:26 | 3.3 | 25 | 05:45 | 2.9 |
| | 09:56 | 0.4 | | 10:37 | 1.0 | | 11:23 | 0.7 | | 11:48 | 1.1 |
| | QUI | 16:33 | SÁB | 16:59 | 2.8 | DOM | 17:59 | 3.0 | TER | 18:08 | 2.6 |
| | 22:17 | 0.5 | | 22:45 | 1.1 | | 23:37 | 0.9 | | 23:52 | 1.3 |
| 10 | 04:53 | 3.4 | 26 | 05:18 | 2.9 | 10 | 06:21 | 3.1 | 26 | 06:31 | 2.8 |
| | 10:40 | 0.5 | | 11:14 | 1.1 | | 12:23 | 0.9 | | 12:40 | 1.2 |
| | SEX | 17:19 | DOM | 17:35 | 2.7 | SEG | 18:59 | 2.8 | QUA | 19:01 | 2.5 |
| | 23:00 | 0.7 | | 23:19 | 1.2 | | | | | | |
| 11 | 05:38 | 3.2 | 27 | 05:56 | 2.8 | 11 | 00:37 | 1.2 | 27 | 00:48 | 1.4 |
| | 11:30 | 0.7 | | 11:58 | 1.2 | | 07:23 | 2.9 | | 07:25 | 2.7 |
| | SÁB | 18:08 | SEG | 18:18 | 2.5 | TER | 13:33 | 1.1 | QUI | 13:42 | 1.2 |
| | 23:49 | 0.9 | | | | | 20:10 | 2.6 | | 20:06 | 2.5 |
| 12 | 06:30 | 3.0 | 28 | 00:02 | 1.4 | 12 | 01:49 | 1.3 | 28 | 01:58 | 1.4 |
| | 12:28 | 0.9 | | 06:44 | 2.6 | | 08:37 | 2.8 | | 08:31 | 2.7 |
| | DOM | 19:07 | TER | 12:58 | 1.4 | QUA | 14:53 | 1.2 | SEX | 14:50 | 1.2 |
| | | | | 19:16 | 2.4 | (| 21:29 | 2.5 |) | 21:21 | 2.5 |
| 13 | 00:48 | 1.2 | 29 | 01:09 | 1.5 | 13 | 03:11 | 1.4 | 29 | 03:11 | 1.4 |
| | 07:34 | 2.8 | | 07:49 | 2.5 | | 09:53 | 2.8 | | 09:42 | 2.8 |
| | SEG | 13:44 | QUA | 14:19 | 1.4 | QUI | 16:12 | 1.2 | SÁB | 15:55 | 1.1 |
| | (| 20:24 |) | 20:41 | 2.3 | | 22:43 | 2.6 | | 22:31 | 2.6 |
| 14 | 02:09 | 1.4 | 30 | 02:44 | 1.6 | 14 | 04:28 | 1.3 | 30 | 04:18 | 1.2 |
| | 08:58 | 2.7 | | 09:14 | 2.5 | | 11:02 | 2.8 | | 10:49 | 2.9 |
| | TER | 15:20 | QUI | 15:41 | 1.4 | SEX | 17:17 | 1.1 | DOM | 16:55 | 1.0 |
| | 21:57 | 2.5 | | 22:16 | 2.4 | | 23:42 | 2.7 | | 23:31 | 2.8 |
| 15 | 03:46 | 1.4 | 31 | 04:05 | 1.5 | 15 | 05:30 | 1.2 | 15 | 05:37 | 1.3 |
| | 10:25 | 2.7 | | 10:34 | 2.7 | | 11:58 | 2.9 | | 12:07 | 2.7 |
| | QUA | 16:51 | SEX | 16:48 | 1.2 | SÁB | 18:07 | 1.1 | SEG | 18:06 | 1.2 |
| | 23:18 | 2.6 | | 23:23 | 2.6 | | | | | | |
| 16 | 05:08 | 1.3 | | | | 16 | 00:29 | 2.8 | 16 | 00:34 | 2.7 |
| | 11:37 | 2.8 | | | | | 06:18 | 1.1 | | 06:28 | 1.2 |
| | QUI | 17:56 | | | | DOM | 12:45 | 2.9 | TER | 12:53 | 2.7 |
| | | | | | | | 18:46 | 1.0 | | 18:47 | 1.1 |

FIGUEIRA DA FOZ



PORTO DA FIGUEIRA DA FOZ

NOTAS

1. ANÁLISE HARMÓNICA:

— Efetuada a partir de um ano de observações maregráficas, de 27 de janeiro de 2008 a 27 de janeiro de 2009.

2. LOCALIZAÇÃO DO MARÉGRAFO (ATUALMENTE DESATIVADO):

— No cais de serviços:

Latitude 40° 08,90' N; Longitude 8° 51,37' W – WGS84.

3. ALTURAS DE MARÉ:

— Referidas ao nível do zero hidrográfico.

— Nível médio: 2,00 m.

4. ZERO HIDROGRÁFICO:

— 2,00 m abaixo do nível médio adotado (Cascais, 1938).

— 6,453 m abaixo da marca de contacto da mesa do marégrafo (MC).

— 5,272 m abaixo da marca de nivelamento MN 3/84 situada junto ao marégrafo.

— 5,447 m abaixo da marca MN2/77, situada no topo W do cais comercial.

— 5,443 m abaixo da marca de nivelamento principal NP96 (IGP) situada no edifício da Câmara Municipal da Figueira da Foz, próximo da base (E) do arco central da fachada (N) Rua Fernandes Tomaz, n.º 157, no vão de pequena janela do lado (E).

Porto de Figueira da Foz

Latitude 40° 08.90' N Longitude 8° 51.37' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JANEIRO | | | | FEVEREIRO | | | | MARÇO | | | | | | | | | |
|-----------|-----------|--------|-----------|-----------|--------|-----------|-----------|-------|-----------|-----------|--------|-----------|-----------|-----|-----------|-----------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 03:32 | 3.3 | 17 | 04:56 | 3.3 | 01 | 04:40 | 3.7 | 17 | 05:29 | 3.1 | 01 | 03:38 | 3.8 | 17 | 04:26 | 3.3 |
| | 09:42 | 0.6 | | 11:06 | 0.7 | | 10:48 | 0.4 | | 11:32 | 0.9 | | 09:45 | 0.2 | | 10:27 | 0.7 |
| | 15:57 | 3.1 | | SEX 17:17 | 3.0 | | SÁB 17:04 | 3.3 | | SEG 17:46 | 3.0 | | SÁB 16:01 | 3.5 | | SEG 16:41 | 3.2 |
| | 21:51 | 0.7 | | 23:08 | 0.8 | | 22:58 | 0.5 | | 23:42 | 0.9 | | 21:57 | 0.3 | | 22:38 | 0.7 |
| 02 | 04:13 | 3.4 | 18 | 05:31 | 3.2 | 02 | 05:22 | 3.6 | 18 | 06:00 | 3.0 | 02 | 04:19 | 3.8 | 18 | 04:56 | 3.1 |
| | 10:23 | 0.6 | | 11:40 | 0.8 | | 11:29 | 0.5 | | 12:04 | 1.0 | | 10:24 | 0.2 | | 10:55 | 0.8 |
| | 16:39 | 3.1 | | SÁB 17:52 | 2.9 | | DOM 17:46 | 3.3 | | TER 18:19 | 2.8 | | DOM 16:41 | 3.5 | | TER 17:10 | 3.1 |
| | 22:32 | 0.7 | | 23:44 | 0.9 | | 23:41 | 0.6 | | | | | 22:38 | 0.3 | | 23:09 | 0.9 |
| 03 | 04:56 | 3.4 | 19 | 06:06 | 3.1 | 03 | 06:07 | 3.5 | 19 | 00:17 | 1.1 | 03 | 05:01 | 3.7 | 19 | 05:26 | 3.0 |
| | 11:06 | 0.6 | | 12:16 | 1.0 | | 12:12 | 0.6 | | 06:35 | 2.8 | | 11:04 | 0.4 | | 11:25 | 1.0 |
| | 17:22 | 3.1 | | DOM 18:28 | 2.8 | | SEG 18:31 | 3.1 | | QUA 12:40 | 1.2 | | SEG 17:22 | 3.4 | | QUA 17:42 | 2.9 |
| | 23:15 | 0.7 | | | | | | | | 18:58 | 2.7 | | 23:20 | 0.4 | | 23:42 | 1.0 |
| 04 | 05:41 | 3.4 | 20 | 00:21 | 1.1 | 04 | 00:28 | 0.7 | 20 | 00:58 | 1.3 | 04 | 05:45 | 3.5 | 20 | 05:58 | 2.8 |
| | 11:51 | 0.7 | | 06:44 | 2.9 | | 06:55 | 3.2 | | 07:17 | 2.6 | | 11:46 | 0.6 | | 11:58 | 1.2 |
| | SÁB 18:08 | 3.0 | | SEG 12:54 | 1.1 | | TER 13:00 | 0.8 | | QUI 13:24 | 1.4 | | TER 18:06 | 3.3 | | QUI 18:18 | 2.8 |
| | | | | 19:09 | 2.7 | | 19:22 | 3.0 | | 19:50 | 2.5 | | | | | | |
| 05 | 00:02 | 0.8 | 21 | 01:03 | 1.2 | 05 | 01:22 | 0.9 | 21 | 01:54 | 1.5 | 05 | 00:07 | 0.7 | 21 | 00:21 | 1.2 |
| | 06:29 | 3.3 | | 07:27 | 2.7 | | 07:50 | 3.0 | | 08:19 | 2.4 | | 06:32 | 3.2 | | 06:38 | 2.6 |
| | DOM 12:40 | 0.8 | | TER 13:39 | 1.3 | | QUA 13:56 | 1.1 | | SEX 14:30 | 1.5 | | QUA 12:32 | 0.9 | | SEX 12:39 | 1.3 |
| | 18:59 | 2.9 | | ((19:58 | 2.5 | |) 20:23 | 2.8 | | 21:10 | 2.4 | | 18:56 | 3.0 | | 19:05 | 2.6 |
| 06 | 00:53 | 0.9 | 22 | 01:55 | 1.4 | 06 | 02:31 | 1.2 | 22 | 03:31 | 1.6 | 06 | 01:01 | 0.9 | 22 | 01:15 | 1.4 |
| | 07:22 | 3.1 | | 08:21 | 2.5 | | 09:01 | 2.7 | | 10:02 | 2.3 | | 07:29 | 2.9 | | 07:36 | 2.4 |
| | SEG 13:34 | 0.9 | | QUA 14:36 | 1.4 | | QUI 15:11 | 1.2 | | SÁB 16:22 | 1.6 | | QUI 13:28 | 1.1 | | SÁB 13:40 | 1.5 |
| |) 19:55 | 2.8 | | 21:03 | 2.5 | | 21:43 | 2.7 | | 22:48 | 2.5 | |) 19:59 | 2.8 | | ((20:19 | 2.5 |
| 07 | 01:52 | 1.0 | 23 | 03:05 | 1.5 | 07 | 04:06 | 1.3 | 23 | 05:22 | 1.5 | 07 | 02:17 | 1.2 | 23 | 02:47 | 1.5 |
| | 08:21 | 3.0 | | 09:33 | 2.4 | | 10:28 | 2.6 | | 11:35 | 2.4 | | 08:46 | 2.6 | | 09:20 | 2.3 |
| | TER 14:35 | 1.0 | | QUI 15:54 | 1.5 | | SEX 16:44 | 1.3 | | DOM 17:46 | 1.4 | | SEX 14:51 | 1.4 | | DOM 15:31 | 1.6 |
| | 20:59 | 2.8 | | 22:21 | 2.5 | | 23:10 | 2.7 | | | | | 21:27 | 2.6 | | 22:05 | 2.5 |
| 08 | 03:01 | 1.1 | 24 | 04:37 | 1.5 | 08 | 05:40 | 1.2 | 24 | 00:00 | 2.7 | 08 | 04:08 | 1.3 | 24 | 04:45 | 1.4 |
| | 09:30 | 2.9 | | 10:55 | 2.4 | | 11:53 | 2.7 | | 06:25 | 1.2 | | 10:27 | 2.5 | | 11:03 | 2.4 |
| | QUA 15:45 | 1.1 | | SEX 17:14 | 1.4 | | SÁB 18:03 | 1.2 | | SEG 12:36 | 2.6 | | SÁB 16:40 | 1.4 | | SEG 17:10 | 1.4 |
| | 22:11 | 2.8 | | 23:32 | 2.6 | | | | | 18:40 | 1.2 | | 23:05 | 2.7 | | 23:25 | 2.7 |
| 09 | 04:20 | 1.1 | 25 | 05:54 | 1.4 | 09 | 00:24 | 2.9 | 25 | 00:52 | 2.9 | 09 | 05:40 | 1.2 | 25 | 05:53 | 1.2 |
| | 10:43 | 2.8 | | 12:03 | 2.5 | | 06:48 | 1.0 | | 07:11 | 1.0 | | 11:55 | 2.6 | | 12:07 | 2.6 |
| | QUI 16:58 | 1.1 | | SÁB 18:15 | 1.3 | | DOM 13:00 | 2.8 | | TER 13:22 | 2.9 | | DOM 17:58 | 1.3 | | TER 18:08 | 1.2 |
| | 23:22 | 2.8 | | | | | 19:02 | 1.1 | | 19:22 | 1.0 | | | | | | |
| 10 | 05:38 | 1.1 | 26 | 00:29 | 2.7 | 10 | 01:21 | 3.1 | 26 | 01:36 | 3.2 | 10 | 00:18 | 2.9 | 26 | 00:21 | 3.0 |
| | 11:54 | 2.9 | | 06:49 | 1.2 | | 07:40 | 0.8 | | 07:51 | 0.7 | | 06:42 | 1.0 | | 06:40 | 0.9 |
| | SEX 18:05 | 1.0 | | DOM 12:57 | 2.7 | | SEG 13:51 | 2.9 | | QUA 14:04 | 3.1 | | SEG 12:55 | 2.8 | | QUA 12:54 | 2.9 |
| | | | | 19:03 | 1.2 | | 19:49 | 0.9 | | 20:01 | 0.7 | | 18:52 | 1.1 | | 18:53 | 0.9 |
| 11 | 00:26 | 3.0 | 27 | 01:15 | 2.9 | 11 | 02:07 | 3.2 | 27 | 02:17 | 3.5 | 11 | 01:09 | 3.0 | 27 | 01:07 | 3.3 |
| | 06:44 | 0.9 | | 07:33 | 1.0 | | 08:22 | 0.7 | | 08:29 | 0.5 | | 07:27 | 0.8 | | 07:21 | 0.6 |
| | SÁB 12:57 | 2.9 | | SEG 13:42 | 2.8 | | TER 14:33 | 3.1 | | QUI 14:43 | 3.3 | | TER 13:38 | 2.9 | | QUI 13:36 | 3.2 |
| | 19:03 | 0.9 | | 19:43 | 1.0 | | 20:28 | 0.8 | | 20:40 | 0.5 | | 19:33 | 0.9 | | 19:34 | 0.6 |
| 12 | 01:23 | 3.1 | 28 | 01:57 | 3.1 | 12 | 02:47 | 3.4 | 28 | 02:57 | 3.7 | 12 | 01:50 | 3.2 | 28 | 01:50 | 3.5 |
| | 07:40 | 0.8 | | 08:12 | 0.8 | | 08:59 | 0.6 | | 09:07 | 0.3 | | 08:03 | 0.7 | | 08:01 | 0.4 |
| | DOM 13:53 | 3.0 | | TER 14:23 | 3.0 | | QUA 15:10 | 3.2 | | SEX 15:22 | 3.5 | | QUA 14:14 | 3.1 | | SEX 14:15 | 3.4 |
| | 19:54 | 0.8 | | 20:22 | 0.8 | | ○ 21:04 | 0.7 | | ● 21:18 | 0.3 | | 20:08 | 0.8 | | 20:14 | 0.4 |
| 13 | 02:13 | 3.3 | 29 | 02:38 | 3.3 | 13 | 03:23 | 3.4 | 29 | 02:57 | 3.7 | 13 | 02:25 | 3.3 | 29 | 02:31 | 3.7 |
| | 08:29 | 0.6 | | 08:51 | 0.6 | | 09:32 | 0.5 | | 09:32 | 0.3 | | 08:35 | 0.6 | | 08:39 | 0.2 |
| | SEG 14:42 | 3.1 | | QUA 15:03 | 3.2 | | QUI 15:43 | 3.2 | | ○ 20:08 | 0.8 | | QUI 14:45 | 3.2 | | SÁB 14:55 | 3.6 |
| | ○ 20:39 | 0.7 | | ● 21:00 | 0.6 | | 21:36 | 0.6 | | | | | 20:40 | 0.7 | | ● 20:54 | 0.2 |
| 14 | 02:59 | 3.4 | 30 | 03:18 | 3.5 | 14 | 03:56 | 3.4 | 14 | 02:57 | 3.4 | 14 | 02:57 | 3.4 | 30 | 03:13 | 3.8 |
| | 09:13 | 0.6 | | 09:29 | 0.5 | | 10:03 | 0.6 | | 15:15 | 3.2 | | 09:04 | 0.6 | | 09:18 | 0.2 |
| | TER 15:26 | 3.1 | | QUI 15:43 | 3.3 | | SEX 16:14 | 3.2 | | ○ 21:10 | 0.6 | | SEX 15:15 | 3.2 | | DOM 15:36 | 3.7 |
| | 21:20 | 0.7 | | 21:38 | 0.5 | | 22:08 | 0.6 | | | | | 21:35 | 0.2 | | 21:35 | 0.2 |
| 15 | 03:40 | 3.4 | 31 | 03:59 | 3.6 | 15 | 04:27 | 3.4 | 15 | 03:28 | 3.4 | 15 | 03:28 | 3.4 | 31 | 03:56 | 3.8 |
| | 09:53 | 0.6 | | 10:08 | 0.4 | | 10:33 | 0.6 | | 15:44 | 3.3 | | 09:32 | 0.6 | | 09:58 | 0.2 |
| | QUA 16:05 | 3.1 | | SEX 16:23 | 3.3 | | SÁB 16:45 | 3.2 | | 21:40 | 0.6 | | SÁB 15:44 | 3.3 | | SEG 16:17 | 3.6 |
| | 21:58 | 0.7 | | 22:18 | 0.5 | | 22:38 | 0.7 | | | | | 21:40 | 0.6 | | 22:18 | 0.2 |
| 16 | 04:19 | 3.4 | | | | 16 | 04:58 | 3.3 | 16 | 03:57 | 3.4 | 16 | 03:57 | 3.4 | | | |
| | 10:30 | 0.6 | | | | | 11:02 | 0.7 | | 10:00 | 0.6 | | 10:00 | 0.6 | | | |
| | QUI 16:42 | 3.1 | | | | | 17:15 | 3.1 | | 16:12 | 3.2 | | 16:12 | 3.2 | | | |
| | 22:33 | 0.7 | | | | | 23:09 | 0.8 | | 22:09 | 0.6 | | 22:09 | 0.6 | | | |

Porto de Figueira da Foz

Latitude 40° 08.90' N Longitude 8° 51.37' W

Horas do Fuso: 0 (TU)

Ano: 2025

| ABRIL | | | | MAIO | | | | JUNHO | | | | | | | | | |
|-----------|-------|--------|-----------|-------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-----|-----------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 04:40 | 3.6 | 17 | 04:59 | 2.9 | 01 | 05:13 | 3.2 | 17 | 05:24 | 2.7 | 01 | 00:35 | 0.9 | 17 | 00:38 | 1.0 |
| | 10:39 | 0.4 | | 10:55 | 1.0 | | 11:07 | 0.7 | | 11:17 | 1.1 | | 06:51 | 2.8 | | 06:56 | 2.7 |
| TER | 17:00 | 3.5 | QUI | 17:16 | 3.0 | QUI | 17:32 | 3.3 | SÁB | 17:43 | 2.9 | DOM | 12:41 | 1.1 | TER | 12:49 | 1.1 |
| | 23:03 | 0.4 | | 23:19 | 1.0 | | 23:46 | 0.7 | | 23:55 | 1.1 | | 19:09 | 3.0 | | 19:17 | 3.0 |
| 02 | 05:26 | 3.4 | 18 | 05:35 | 2.8 | 02 | 06:07 | 3.0 | 18 | 06:12 | 2.6 | 02 | 01:36 | 1.0 | 18 | 01:34 | 1.0 |
| | 11:23 | 0.6 | | 11:31 | 1.1 | | 11:59 | 1.0 | | 12:06 | 1.2 | | 07:51 | 2.6 | | 07:54 | 2.7 |
| QUA | 17:46 | 3.3 | SEX | 17:54 | 2.8 | SEX | 18:27 | 3.1 | DOM | 18:35 | 2.8 | SEG | 13:42 | 1.3 | QUA | 13:49 | 1.1 |
| | 23:52 | 0.7 | | | | | | | | | | | 20:10 | 2.8 | (| 20:17 | 3.0 |
| 03 | 06:17 | 3.1 | 19 | 00:02 | 1.2 | 03 | 00:49 | 1.0 | 19 | 00:53 | 1.2 | 03 | 02:40 | 1.2 | 19 | 02:35 | 1.0 |
| | 12:11 | 0.9 | | 06:19 | 2.6 | | 07:10 | 2.7 | | 07:12 | 2.5 | | 08:55 | 2.5 | | 08:57 | 2.7 |
| QUI | 18:39 | 3.0 | SÁB | 12:15 | 1.3 | SÁB | 13:01 | 1.2 | SEG | 13:07 | 1.3 | TER | 14:49 | 1.4 | QUI | 14:55 | 1.1 |
| | | | | 18:44 | 2.7 | | 19:33 | 2.9 | | 19:38 | 2.8 |) | 21:14 | 2.7 | | 21:21 | 3.0 |
| 04 | 00:52 | 1.0 | 20 | 01:00 | 1.3 | 04 | 02:08 | 1.1 | 20 | 02:03 | 1.2 | 04 | 03:43 | 1.2 | 20 | 03:39 | 1.0 |
| | 07:18 | 2.8 | | 07:21 | 2.4 | | 08:26 | 2.5 | | 08:25 | 2.5 | | 09:59 | 2.5 | | 10:02 | 2.8 |
| SEX | 13:12 | 1.2 | DOM | 13:19 | 1.5 | DOM | 14:21 | 1.4 | TER | 14:22 | 1.3 | QUA | 15:56 | 1.4 | SEX | 16:04 | 1.1 |
| | 19:45 | 2.8 | | 19:55 | 2.6 |) | 20:50 | 2.7 | (| 20:51 | 2.8 | | 22:18 | 2.7 | | 22:27 | 3.0 |
| 05 | 02:18 | 1.2 | 21 | 02:26 | 1.4 | 05 | 03:31 | 1.2 | 21 | 03:18 | 1.1 | 05 | 04:41 | 1.2 | 21 | 04:42 | 0.9 |
| | 08:41 | 2.5 | | 08:53 | 2.4 | | 09:48 | 2.5 | | 09:40 | 2.6 | | 10:57 | 2.6 | | 11:05 | 2.9 |
| SÁB | 14:42 | 1.4 | SEG | 14:55 | 1.5 | SEG | 15:45 | 1.4 | QUA | 15:38 | 1.3 | QUI | 16:57 | 1.3 | SÁB | 17:11 | 1.0 |
|) | 21:15 | 2.7 | (| 21:27 | 2.6 |) | 22:09 | 2.7 |) | 22:02 | 2.9 |) | 23:14 | 2.7 |) | 23:30 | 3.0 |
| 06 | 04:02 | 1.3 | 22 | 04:03 | 1.3 | 06 | 04:41 | 1.2 | 22 | 04:24 | 1.0 | 06 | 05:31 | 1.2 | 22 | 05:42 | 0.9 |
| | 10:20 | 2.5 | | 10:24 | 2.5 | | 10:58 | 2.6 | | 10:45 | 2.8 | | 11:46 | 2.7 | | 12:03 | 3.1 |
| DOM | 16:24 | 1.4 | TER | 16:25 | 1.4 | TER | 16:54 | 1.3 | QUI | 16:45 | 1.1 | SEX | 17:50 | 1.2 | DOM | 18:13 | 0.8 |
| | 22:47 | 2.7 | | 22:44 | 2.8 | | 23:13 | 2.8 | | 23:04 | 3.0 | | | | | | |
| 07 | 05:22 | 1.2 | 23 | 05:11 | 1.1 | 07 | 05:36 | 1.1 | 23 | 05:21 | 0.9 | 07 | 00:03 | 2.8 | 23 | 00:30 | 3.1 |
| | 11:38 | 2.6 | | 11:28 | 2.7 | | 11:50 | 2.7 | | 11:40 | 3.0 | | 06:16 | 1.1 | | 06:38 | 0.8 |
| SEG | 17:36 | 1.3 | QUA | 17:28 | 1.1 | QUA | 17:47 | 1.2 | SEX | 17:42 | 0.9 | SÁB | 12:30 | 2.8 | SEG | 12:59 | 3.2 |
| | 23:54 | 2.8 | | 23:43 | 3.0 | | | | | 23:59 | 3.2 | | 18:36 | 1.1 | | 19:12 | 0.7 |
| 08 | 06:18 | 1.0 | 24 | 06:02 | 0.8 | 08 | 00:04 | 2.9 | 24 | 06:11 | 0.7 | 08 | 00:47 | 2.8 | 24 | 01:27 | 3.2 |
| | 12:31 | 2.7 | | 12:18 | 3.0 | | 06:19 | 1.0 | | 12:30 | 3.2 | | 06:56 | 1.0 | | 07:31 | 0.7 |
| TER | 18:27 | 1.2 | QUI | 18:18 | 0.9 | QUI | 12:32 | 2.8 | SÁB | 18:34 | 0.7 | DOM | 13:09 | 2.9 | TER | 13:52 | 3.3 |
| | | | | | | | 18:31 | 1.1 | | | | | 19:18 | 1.0 | | 20:06 | 0.6 |
| 09 | 00:43 | 3.0 | 25 | 00:33 | 3.3 | 09 | 00:45 | 3.0 | 25 | 00:51 | 3.3 | 09 | 01:27 | 2.9 | 25 | 02:21 | 3.2 |
| | 06:59 | 0.9 | | 06:47 | 0.6 | | 06:56 | 0.9 | | 06:59 | 0.6 | | 07:32 | 1.0 | | 08:22 | 0.6 |
| QUA | 13:11 | 2.9 | SEX | 13:03 | 3.2 | SEX | 13:08 | 2.9 | DOM | 13:18 | 3.4 | SEG | 13:46 | 3.0 | QUA | 14:43 | 3.4 |
| | 19:06 | 1.0 | | 19:03 | 0.6 | | 19:09 | 1.0 | | 19:24 | 0.5 | | 19:55 | 1.0 | ● | 20:58 | 0.5 |
| 10 | 01:22 | 3.1 | 26 | 01:19 | 3.5 | 10 | 01:22 | 3.0 | 26 | 01:41 | 3.4 | 10 | 02:04 | 2.9 | 26 | 03:13 | 3.2 |
| | 07:33 | 0.8 | | 07:29 | 0.4 | | 07:29 | 0.9 | | 07:46 | 0.5 | | 08:07 | 0.9 | | 09:10 | 0.6 |
| QUI | 13:44 | 3.0 | SÁB | 13:45 | 3.4 | SÁB | 13:41 | 3.0 | SEG | 14:06 | 3.5 | TER | 14:21 | 3.1 | QUI | 15:32 | 3.5 |
| | 19:41 | 0.9 | | 19:47 | 0.4 | | 19:44 | 0.9 | | 20:14 | 0.4 | | 20:31 | 0.9 | | 21:47 | 0.5 |
| 11 | 01:56 | 3.2 | 27 | 02:04 | 3.6 | 11 | 01:56 | 3.1 | 27 | 02:31 | 3.5 | 11 | 02:41 | 2.9 | 27 | 04:03 | 3.2 |
| | 08:04 | 0.7 | | 08:11 | 0.3 | | 08:01 | 0.8 | | 08:33 | 0.5 | | 08:40 | 0.9 | | 09:56 | 0.7 |
| SEX | 14:14 | 3.1 | DOM | 14:28 | 3.6 | DOM | 14:13 | 3.1 | TER | 14:54 | 3.5 | QUA | 14:57 | 3.1 | SEX | 16:20 | 3.5 |
| | 20:13 | 0.7 | ● | 20:31 | 0.3 | | 20:17 | 0.8 | ● | 21:03 | 0.4 | ○ | 21:06 | 0.9 | | 22:35 | 0.5 |
| 12 | 02:27 | 3.3 | 28 | 02:50 | 3.7 | 12 | 02:29 | 3.1 | 28 | 03:22 | 3.4 | 12 | 03:17 | 2.9 | 28 | 04:50 | 3.1 |
| | 08:33 | 0.7 | | 08:53 | 0.3 | | 08:31 | 0.8 | | 09:20 | 0.5 | | 09:13 | 0.9 | | 10:41 | 0.8 |
| SÁB | 14:44 | 3.2 | SEG | 15:12 | 3.6 | SEG | 14:45 | 3.2 | QUA | 15:42 | 3.5 | QUI | 15:33 | 3.2 | SÁB | 17:05 | 3.4 |
| | 20:43 | 0.7 | | 21:16 | 0.2 | ○ | 20:49 | 0.8 | | 21:54 | 0.4 | | 21:42 | 0.8 | | 23:20 | 0.7 |
| 13 | 02:58 | 3.3 | 29 | 03:36 | 3.6 | 13 | 03:01 | 3.1 | 29 | 04:12 | 3.3 | 13 | 03:55 | 2.9 | 29 | 05:35 | 3.0 |
| | 09:01 | 0.7 | | 09:36 | 0.3 | | 09:01 | 0.8 | | 10:07 | 0.6 | | 09:49 | 0.9 | | 11:25 | 0.9 |
| DOM | 15:13 | 3.2 | TER | 15:56 | 3.6 | TER | 15:17 | 3.2 | QUI | 16:31 | 3.5 | SEX | 16:11 | 3.2 | DOM | 17:50 | 3.2 |
| ○ | 21:13 | 0.7 | | 22:02 | 0.3 | | 21:21 | 0.8 | | 22:45 | 0.5 | | 22:20 | 0.8 | | | |
| 14 | 03:28 | 3.2 | 30 | 04:23 | 3.5 | 14 | 03:34 | 3.0 | 30 | 05:04 | 3.1 | 14 | 04:35 | 2.9 | 30 | 00:05 | 0.8 |
| | 09:28 | 0.7 | | 10:20 | 0.5 | | 09:31 | 0.9 | | 10:56 | 0.8 | | 10:27 | 0.9 | | 06:19 | 2.9 |
| SEG | 15:42 | 3.2 | QUA | 16:43 | 3.5 | QUA | 15:49 | 3.1 | SEX | 17:21 | 3.3 | SÁB | 16:51 | 3.2 | SEG | 12:08 | 1.0 |
| | 21:42 | 0.7 | | 22:51 | 0.5 | | 21:53 | 0.8 | | 23:39 | 0.7 | | 23:01 | 0.9 | | 18:34 | 3.1 |
| 15 | 03:58 | 3.2 | | | | 15 | 04:08 | 2.9 | 31 | 05:56 | 2.9 | 15 | 05:17 | 2.8 | | | |
| | 09:56 | 0.8 | | | | | 10:02 | 0.9 | | 11:46 | 1.0 | | 11:09 | 1.0 | | | |
| TER | 16:12 | 3.2 | | | | QUI | 16:23 | 3.1 | SÁB | 18:13 | 3.2 | DOM | 17:35 | 3.1 | | | |
| | 22:12 | 0.8 | | | | | 22:28 | 0.9 | | | | | 23:47 | 0.9 | | | |
| 16 | 04:28 | 3.0 | | | | 16 | 04:44 | 2.9 | | | | 16 | 06:04 | 2.8 | | | |
| | 10:25 | 0.9 | | | | | 10:37 | 1.0 | | | | | 11:56 | 1.0 | | | |
| QUA | 16:42 | 3.1 | | | | SEX | 17:00 | 3.0 | | | | | 18:23 | 3.1 | | | |
| | 22:44 | 0.9 | | | | | 23:08 | 1.0 | | | | | | | | | |

Porto de Figueira da Foz

Latitude 40° 08.90' N Longitude 8° 51.37' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JULHO | | | | AGOSTO | | | | SETEMBRO | | | | | | | | | |
|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 00:51 07:05 TER 12:54 19:21 | 1.0 2.7 1.1 2.9 | 17 | 01:01 07:21 QUI 13:17 19:45 | 0.8 2.9 1.0 3.1 | 01 | 01:22 07:42 SEX 13:39 20:04 | 1.2 2.6 1.3 2.6 | 17 | 02:28 09:01 DOM 15:19 21:45 | 1.2 2.7 1.2 2.7 | 01 | 02:17 08:59 SEG 15:29 21:53 | 1.5 2.4 1.6 2.3 | 17 | 05:25 11:45 QUA 18:12 | 1.3 2.9 1.0 |
| 02 | 01:39 07:54 QUA 13:46 20:13 | 1.1 2.6 1.3 2.7 | 18 | 01:56 08:19 SEX 14:19 20:47 | 1.0 2.8 1.1 2.9 | 02 | 02:16 08:43 SÁB 14:46 21:12 | 1.4 2.5 1.5 2.4 | 18 | 03:58 10:28 SEG 16:59 23:14 | 1.3 2.7 1.2 2.7 | 02 | 04:15 10:38 TER 17:15 23:25 | 1.6 2.5 1.5 2.4 | 18 | 00:24 06:23 QUI 12:41 19:00 | 2.8 1.1 3.1 0.8 |
| 03 | 02:32 08:50 QUI 14:47 21:12 | 1.2 2.6 1.4 2.6 | 19 | 02:59 09:26 SÁB 15:33 21:58 | 1.1 2.8 1.1 2.8 | 03 | 03:30 10:00 DOM 16:20 22:36 | 1.5 2.5 1.5 2.4 | 19 | 05:25 11:48 TER 18:15 | 1.2 2.9 1.0 | 03 | 05:35 11:47 QUA 18:14 | 1.4 2.6 1.3 | 19 | 01:11 07:08 SEX 13:25 19:39 | 2.9 0.9 3.2 0.7 |
| 04 | 03:33 09:53 SEX 15:57 22:17 | 1.3 2.5 1.4 2.6 | 20 | 04:11 10:39 DOM 16:55 23:13 | 1.1 2.8 1.1 2.8 | 04 | 04:55 11:15 SEG 17:41 23:49 | 1.5 2.5 1.4 2.5 | 20 | 00:27 06:31 QUA 12:50 19:12 | 2.8 1.1 3.1 0.8 | 04 | 00:23 06:26 QUI 12:37 18:57 | 2.6 1.3 2.9 1.0 | 20 | 01:50 07:45 SÁB 14:02 20:13 | 3.1 0.8 3.4 0.6 |
| 05 | 04:36 10:56 SÁB 17:07 23:20 | 1.3 2.6 1.4 2.6 | 21 | 05:25 11:49 SEG 18:09 | 1.1 2.9 1.0 | 05 | 06:00 12:15 TER 18:37 | 1.4 2.7 1.3 | 21 | 01:23 07:22 QUI 13:40 19:57 | 2.9 0.9 3.3 0.7 | 05 | 01:07 07:06 SEX 13:18 19:34 | 2.8 1.0 3.1 0.8 | 21 | 02:23 08:19 DOM 14:36 20:44 | 3.2 0.6 3.4 0.5 |
| 06 | 05:35 11:52 DOM 18:06 | 1.3 2.7 1.3 | 22 | 00:23 06:30 TER 12:52 19:11 | 2.9 1.0 3.1 0.8 | 06 | 00:44 06:49 QUA 13:02 19:21 | 2.6 1.2 2.8 1.1 | 22 | 02:08 08:04 SEX 14:23 20:37 | 3.1 0.7 3.4 0.5 | 06 | 01:45 07:42 SÁB 13:56 20:09 | 3.0 0.8 3.4 0.6 | 22 | 02:55 08:51 SEG 15:08 21:13 | 3.3 0.6 3.4 0.5 |
| 07 | 00:15 06:26 SEG 12:40 18:56 | 2.6 1.2 2.8 1.2 | 23 | 01:24 07:26 QUA 13:47 20:04 | 3.0 0.8 3.3 0.7 | 07 | 01:29 07:30 QUI 13:43 19:59 | 2.7 1.1 3.0 0.9 | 23 | 02:48 08:42 SÁB 15:02 21:12 | 3.2 0.6 3.5 0.5 | 07 | 02:21 08:18 DOM 14:34 20:44 | 3.2 0.6 3.6 0.4 | 23 | 03:25 09:22 TER 15:39 21:42 | 3.3 0.6 3.4 0.6 |
| 08 | 01:03 07:09 TER 13:23 19:38 | 2.7 1.1 2.9 1.1 | 24 | 02:17 08:15 QUI 14:36 20:51 | 3.1 0.7 3.4 0.5 | 08 | 02:09 08:07 SEX 14:21 20:35 | 2.9 0.9 3.2 0.7 | 24 | 03:24 09:17 DOM 15:37 21:45 | 3.2 0.6 3.5 0.5 | 08 | 02:58 08:54 SEG 15:13 21:20 | 3.4 0.4 3.7 0.3 | 24 | 03:55 09:52 QUA 16:10 22:10 | 3.3 0.6 3.3 0.7 |
| 09 | 01:45 07:48 QUA 14:02 20:17 | 2.8 1.0 3.0 0.9 | 25 | 03:05 08:59 SEX 15:21 21:34 | 3.2 0.7 3.5 0.5 | 09 | 02:46 08:42 SÁB 14:59 21:11 | 3.1 0.7 3.4 0.5 | 25 | 03:57 09:50 SEG 16:11 22:16 | 3.2 0.6 3.4 0.6 | 09 | 03:35 09:32 TER 15:53 21:57 | 3.5 0.3 3.7 0.3 | 25 | 04:25 10:22 QUI 16:40 22:39 | 3.2 0.7 3.1 0.8 |
| 10 | 02:25 08:24 QUI 14:40 20:53 | 2.9 1.0 3.1 0.8 | 26 | 03:47 09:40 SÁB 16:02 22:14 | 3.2 0.6 3.5 0.5 | 10 | 03:24 09:18 DOM 15:38 21:47 | 3.2 0.6 3.5 0.4 | 26 | 04:29 10:23 TER 16:43 22:47 | 3.2 0.6 3.3 0.7 | 10 | 04:14 10:11 QUA 16:33 22:36 | 3.5 0.3 3.7 0.4 | 26 | 04:55 10:54 SEX 17:10 23:08 | 3.1 0.9 2.9 1.0 |
| 11 | 03:04 09:00 SEX 15:18 21:30 | 2.9 0.9 3.3 0.7 | 27 | 04:27 10:18 DOM 16:41 22:51 | 3.2 0.7 3.4 0.6 | 11 | 04:02 09:56 SEG 16:17 22:24 | 3.3 0.5 3.6 0.4 | 27 | 05:00 10:55 QUA 17:15 23:17 | 3.1 0.8 3.2 0.8 | 11 | 04:54 10:53 QUI 17:16 23:17 | 3.4 0.4 3.5 0.5 | 27 | 05:27 11:27 SÁB 17:43 23:42 | 2.9 1.1 2.7 1.2 |
| 12 | 03:43 09:37 SÁB 15:57 22:08 | 3.0 0.8 3.3 0.7 | 28 | 05:04 10:55 SEG 17:18 23:27 | 3.1 0.7 3.3 0.7 | 12 | 04:40 10:34 TER 16:57 23:03 | 3.3 0.5 3.6 0.5 | 28 | 05:32 11:28 QUI 17:47 23:49 | 3.0 0.9 3.0 1.0 | 12 | 05:38 11:38 SEX 18:03 | 3.3 0.6 3.2 | 28 | 06:03 12:07 DOM 18:23 | 2.7 1.3 2.5 |
| 13 | 04:22 10:15 DOM 16:38 22:47 | 3.0 0.8 3.4 0.6 | 29 | 05:40 11:31 TER 17:54 | 3.0 0.9 3.1 | 13 | 05:20 11:15 QUA 17:40 23:45 | 3.3 0.6 3.5 0.6 | 29 | 06:06 12:03 SEX 18:22 | 2.8 1.1 2.8 | 13 | 00:02 06:26 SÁB 12:31 18:58 | 0.8 3.1 0.9 2.9 | 29 | 00:22 06:51 SEG 13:02 19:22 | 1.4 2.6 1.4 2.3 |
| 14 | 05:03 10:55 SEG 17:19 23:29 | 3.1 0.8 3.4 0.7 | 30 | 00:02 06:16 QUA 12:08 18:32 | 0.9 2.9 1.0 3.0 | 14 | 06:03 11:59 QUI 18:25 | 3.2 0.7 3.3 | 30 | 00:25 06:45 SÁB 12:45 19:05 | 1.2 2.7 1.3 2.5 | 14 | 00:56 07:26 DOM 13:41 20:10 | 1.1 2.9 1.1 2.7 | 30 | 01:25 08:06 TER 14:42 21:11 | 1.6 2.4 1.6 2.3 |
| 15 | 05:45 11:38 TER 18:03 | 3.0 0.8 3.3 | 31 | 00:40 06:56 QUI 12:50 19:13 | 1.1 2.7 1.2 2.8 | 15 | 00:29 06:51 SEX 12:50 19:17 | 0.8 3.0 0.9 3.0 | 31 | 01:09 07:37 DOM 13:43 20:08 | 1.4 2.5 1.5 2.4 | 15 | 02:12 08:49 SEG 15:27 21:48 | 1.3 2.7 1.3 2.5 | | | |
| 16 | 00:13 06:31 QUA 12:25 18:51 | 0.7 3.0 0.9 3.2 | | | | 16 | 01:22 07:47 SÁB 13:52 20:22 | 1.0 2.9 1.1 2.8 | | | | 16 | 04:00 10:27 TER 17:06 23:20 | 1.4 2.7 1.2 2.6 | | | |

Porto de Figueira da Foz

Latitude 40° 08.90' N Longitude 8° 51.37' W

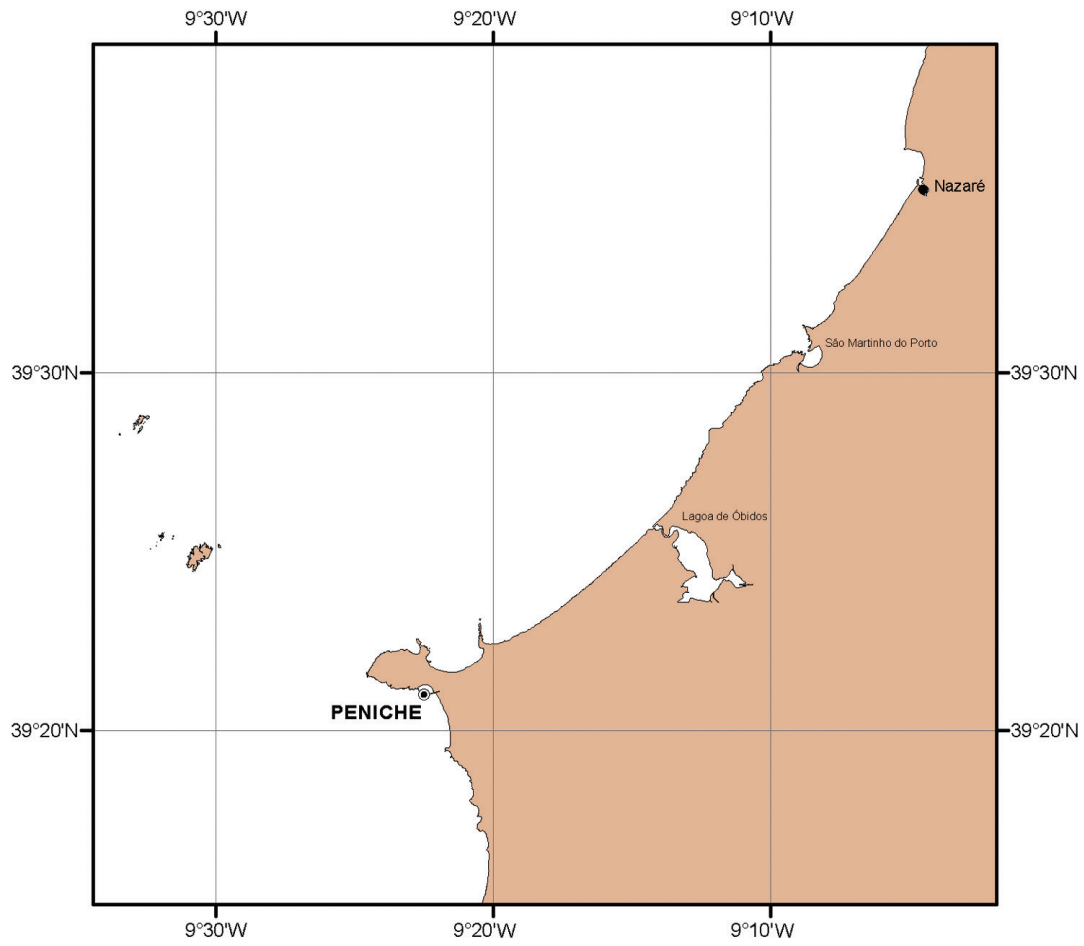
Horas do Fuso: 0 (TU)

Ano: 2025

| OUTUBRO | | | | NOVEMBRO | | | | DEZEMBRO | | | | | | | | | |
|-----------|-------|--------|-----------|----------|--------|-----------|--------|----------|-----------|-------|--------|-----------|-------|-----|-----------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 03:24 | 1.6 | 17 | 00:04 | 2.8 | 01 | 05:07 | 1.2 | 17 | 00:51 | 2.9 | 01 | 05:13 | 1.0 | 17 | 00:58 | 2.9 |
| | 09:54 | 2.5 | | 06:01 | 1.1 | | 11:21 | 2.9 | | 06:52 | 1.0 | | 11:31 | 3.1 | | 07:09 | 1.1 |
| | 16:37 | 1.4 | SEX | 12:18 | 3.0 | SÁB | 17:41 | 0.9 | SEG | 13:06 | 3.0 | SEG | 17:45 | 0.8 | QUA | 13:18 | 2.8 |
| | 22:53 | 2.4 | | 18:36 | 0.9 | | 23:56 | 2.9 | | 19:14 | 0.9 | | | | | 19:24 | 1.0 |
| 02 | 04:58 | 1.5 | 18 | 00:47 | 2.9 | 02 | 05:55 | 1.0 | 18 | 01:25 | 3.0 | 02 | 00:04 | 3.1 | 18 | 01:37 | 3.0 |
| | 11:11 | 2.6 | | 06:44 | 1.0 | | 12:10 | 3.2 | | 07:29 | 0.9 | | 06:07 | 0.8 | | 07:48 | 1.0 |
| | 17:39 | 1.2 | SÁB | 12:59 | 3.2 | DOM | 18:24 | 0.7 | TER | 13:41 | 3.1 | TER | 12:24 | 3.2 | QUI | 13:56 | 2.9 |
| | 23:52 | 2.6 | | 19:12 | 0.8 | | | | | 19:46 | 0.8 | | 18:34 | 0.7 | | 19:59 | 1.0 |
| 03 | 05:52 | 1.2 | 19 | 01:23 | 3.0 | 03 | 00:39 | 3.1 | 19 | 01:59 | 3.1 | 03 | 00:52 | 3.3 | 19 | 02:13 | 3.0 |
| | 12:03 | 2.9 | | 07:20 | 0.8 | | 06:39 | 0.7 | | 08:03 | 0.8 | | 06:59 | 0.6 | | 08:24 | 0.9 |
| | 18:23 | 1.0 | DOM | 13:35 | 3.2 | SEG | 12:54 | 3.4 | QUA | 14:15 | 3.1 | QUA | 13:15 | 3.4 | SEX | 14:33 | 2.9 |
| | | | | 19:44 | 0.7 | | 19:05 | 0.5 | | 20:18 | 0.8 | | 19:21 | 0.5 | | 20:33 | 0.9 |
| 04 | 00:35 | 2.8 | 20 | 01:55 | 3.2 | 04 | 01:20 | 3.3 | 20 | 02:31 | 3.2 | 04 | 01:40 | 3.4 | 20 | 02:48 | 3.1 |
| | 06:34 | 1.0 | | 07:53 | 0.7 | | 07:22 | 0.5 | | 08:36 | 0.8 | | 07:49 | 0.5 | | 08:59 | 0.9 |
| | 12:46 | 3.2 | SEG | 14:08 | 3.3 | TER | 13:38 | 3.6 | QUI | 14:48 | 3.0 | QUI | 14:05 | 3.4 | SÁB | 15:08 | 2.9 |
| | 19:01 | 0.7 | | 20:14 | 0.6 | | 19:45 | 0.4 | ● | 20:48 | 0.8 | ○ | 20:08 | 0.5 | ● | 21:05 | 0.9 |
| 05 | 01:14 | 3.1 | 21 | 02:25 | 3.2 | 05 | 02:02 | 3.5 | 21 | 03:03 | 3.2 | 05 | 02:29 | 3.5 | 21 | 03:23 | 3.2 |
| | 07:12 | 0.7 | | 08:25 | 0.7 | | 08:05 | 0.3 | | 09:09 | 0.8 | | 08:38 | 0.4 | | 09:32 | 0.8 |
| | 13:26 | 3.4 | TER | 14:40 | 3.3 | QUA | 14:23 | 3.6 | SEX | 15:20 | 3.0 | SEX | 14:56 | 3.4 | DOM | 15:43 | 2.9 |
| | 19:38 | 0.5 | ● | 20:43 | 0.6 | ○ | 20:26 | 0.3 | | 21:18 | 0.9 | | 20:56 | 0.5 | | 21:38 | 0.9 |
| 06 | 01:51 | 3.3 | 22 | 02:55 | 3.2 | 06 | 02:45 | 3.6 | 22 | 03:35 | 3.2 | 06 | 03:17 | 3.6 | 22 | 03:58 | 3.2 |
| | 07:50 | 0.5 | | 08:56 | 0.7 | | 08:49 | 0.3 | | 09:41 | 0.8 | | 09:29 | 0.4 | | 10:07 | 0.8 |
| | 14:06 | 3.6 | QUA | 15:11 | 3.2 | QUI | 15:08 | 3.6 | SÁB | 15:54 | 2.9 | SÁB | 15:47 | 3.4 | SEG | 16:20 | 2.9 |
| | 20:14 | 0.3 | | 21:11 | 0.7 | | 21:09 | 0.3 | | 21:49 | 0.9 | | 21:43 | 0.5 | | 22:13 | 0.9 |
| 07 | 02:29 | 3.5 | 23 | 03:25 | 3.2 | 07 | 03:29 | 3.6 | 23 | 04:09 | 3.1 | 07 | 04:07 | 3.6 | 23 | 04:35 | 3.2 |
| | 08:28 | 0.3 | | 09:26 | 0.7 | | 09:35 | 0.3 | | 10:15 | 0.9 | | 10:20 | 0.4 | | 10:44 | 0.8 |
| | 14:47 | 3.7 | QUI | 15:41 | 3.1 | SEX | 15:56 | 3.5 | DOM | 16:28 | 2.8 | DOM | 16:38 | 3.2 | TER | 16:58 | 2.9 |
| | 20:52 | 0.2 | | 21:40 | 0.8 | | 21:53 | 0.4 | | 22:22 | 1.0 | | 22:32 | 0.7 | | 22:50 | 0.9 |
| 08 | 03:08 | 3.6 | 24 | 03:56 | 3.2 | 08 | 04:16 | 3.5 | 24 | 04:45 | 3.0 | 08 | 04:57 | 3.5 | 24 | 05:14 | 3.1 |
| | 09:08 | 0.2 | | 09:57 | 0.8 | | 10:24 | 0.4 | | 10:52 | 1.0 | | 11:12 | 0.6 | | 11:24 | 0.9 |
| | 15:28 | 3.8 | SEX | 16:12 | 3.0 | SÁB | 16:46 | 3.3 | SEG | 17:06 | 2.7 | SEG | 17:30 | 3.1 | QUA | 17:39 | 2.8 |
| | 21:31 | 0.2 | | 22:08 | 0.9 | | 22:40 | 0.6 | | 22:59 | 1.1 | | 23:22 | 0.8 | | 23:31 | 1.0 |
| 09 | 03:49 | 3.6 | 25 | 04:27 | 3.1 | 09 | 05:06 | 3.4 | 25 | 05:25 | 2.9 | 09 | 05:49 | 3.3 | 25 | 05:57 | 3.1 |
| | 09:50 | 0.3 | | 10:29 | 0.9 | | 11:18 | 0.6 | | 11:35 | 1.1 | | 12:07 | 0.7 | | 12:08 | 0.9 |
| | 16:12 | 3.6 | SÁB | 16:43 | 2.9 | DOM | 17:40 | 3.1 | TER | 17:50 | 2.6 | TER | 18:24 | 2.9 | QUI | 18:24 | 2.8 |
| | 22:11 | 0.4 | | 22:39 | 1.0 | | 23:32 | 0.9 | | 23:44 | 1.2 | | | | | | |
| 10 | 04:32 | 3.5 | 26 | 05:00 | 3.0 | 10 | 06:01 | 3.2 | 26 | 06:12 | 2.8 | 10 | 00:14 | 1.0 | 26 | 00:17 | 1.1 |
| | 10:35 | 0.4 | | 11:04 | 1.0 | | 12:19 | 0.8 | | 12:27 | 1.2 | | 06:42 | 3.1 | | 06:44 | 3.0 |
| | 16:58 | 3.4 | DOM | 17:18 | 2.7 | SEG | 18:41 | 2.8 | QUA | 18:44 | 2.5 | QUA | 13:05 | 0.9 | SEX | 12:58 | 1.0 |
| | 22:55 | 0.6 | | 23:13 | 1.2 | | | | | | | | 19:21 | 2.7 | | 19:15 | 2.7 |
| 11 | 05:18 | 3.4 | 27 | 05:37 | 2.8 | 11 | 00:32 | 1.1 | 27 | 00:38 | 1.3 | 11 | 01:11 | 1.2 | 27 | 01:10 | 1.1 |
| | 11:24 | 0.6 | | 11:45 | 1.2 | | 07:04 | 3.0 | | 07:09 | 2.8 | | 07:41 | 2.9 | | 07:38 | 2.9 |
| | 17:48 | 3.1 | SEG | 18:01 | 2.5 | TER | 13:34 | 1.0 | QUI | 13:31 | 1.2 | QUI | 14:08 | 1.1 | SÁB | 13:54 | 1.1 |
| | 23:43 | 0.9 | | 23:56 | 1.3 | | 19:53 | 2.6 | | 19:51 | 2.5 | ((| 20:23 | 2.6 |) | 20:14 | 2.7 |
| 12 | 06:10 | 3.1 | 28 | 06:25 | 2.7 | 12 | 01:47 | 1.3 | 28 | 01:47 | 1.4 | 12 | 02:15 | 1.3 | 28 | 02:11 | 1.2 |
| | 12:22 | 0.9 | | 12:41 | 1.4 | | 08:19 | 2.8 | | 08:18 | 2.7 | | 08:45 | 2.8 | | 08:40 | 2.9 |
| | 18:48 | 2.8 | TER | 19:00 | 2.4 | QUA | 14:58 | 1.1 | SEX | 14:44 | 1.2 | SEX | 15:13 | 1.2 | DOM | 14:56 | 1.1 |
| | | | | | | ((| 21:14 | 2.5 |) | 21:06 | 2.5 | | 21:29 | 2.6 | | 21:20 | 2.7 |
| 13 | 00:41 | 1.1 | 29 | 00:57 | 1.5 | 13 | 03:12 | 1.4 | 29 | 03:03 | 1.3 | 13 | 03:26 | 1.3 | 29 | 03:21 | 1.2 |
| | 07:15 | 2.9 | | 07:34 | 2.6 | | 09:38 | 2.8 | | 09:29 | 2.8 | | 09:52 | 2.7 | | 09:48 | 2.9 |
| | 13:43 | 1.1 | QUA | 14:05 | 1.4 | QUI | 16:13 | 1.1 | SÁB | 15:53 | 1.1 | SÁB | 16:17 | 1.2 | SEG | 16:03 | 1.1 |
| | 20:07 | 2.6 |) | 20:30 | 2.3 | | 22:29 | 2.6 | | 22:14 | 2.7 | | 22:33 | 2.6 | | 22:28 | 2.8 |
| 14 | 02:06 | 1.4 | 30 | 02:30 | 1.5 | 14 | 04:27 | 1.3 | 30 | 04:13 | 1.2 | 14 | 04:34 | 1.3 | 30 | 04:34 | 1.1 |
| | 08:41 | 2.7 | | 09:04 | 2.6 | | 10:48 | 2.8 | | 10:34 | 2.9 | | 10:54 | 2.7 | | 10:57 | 2.9 |
| | 15:27 | 1.2 | QUI | 15:43 | 1.4 | SEX | 17:13 | 1.1 | DOM | 16:53 | 1.0 | DOM | 17:13 | 1.2 | TER | 17:10 | 1.0 |
| | 21:44 | 2.5 | | 22:03 | 2.4 | | 23:27 | 2.7 | | 23:12 | 2.8 | | 23:29 | 2.7 | | 23:33 | 2.9 |
| 15 | 03:49 | 1.4 | 31 | 04:04 | 1.4 | 15 | 05:25 | 1.2 | 15 | 05:34 | 1.3 | 15 | 05:34 | 1.3 | 31 | 05:44 | 1.0 |
| | 10:14 | 2.8 | | 10:23 | 2.7 | | 11:42 | 2.9 | | 11:49 | 2.7 | | 11:49 | 2.7 | | 12:01 | 3.0 |
| | 16:51 | 1.1 | SEX | 16:51 | 1.2 | SÁB | 18:00 | 1.0 | SEG | 18:02 | 1.2 | QUA | 18:11 | 0.9 | | | |
| | 23:07 | 2.6 | | 23:08 | 2.6 | | | | | | | | | | | | |
| 16 | 05:06 | 1.3 | | | | 16 | 00:13 | 2.8 | 16 | 00:16 | 2.8 | | | | | | |
| | 11:25 | 2.9 | | | | | 06:12 | 1.1 | | 06:25 | 1.2 | | | | | | |
| | 17:51 | 1.0 | | | | DOM | 12:27 | 3.0 | TER | 12:36 | 2.8 | | | | | | |
| | | | | | | | 18:39 | 0.9 | | 18:45 | 1.1 | | | | | | |

201.5

PENICHE



PORTO DE PENICHE

NOTAS

1. ANÁLISE HARMÓNICA:

— Efetuada a partir de um ano de observações maregráficas, de 1 de janeiro de 2007 a 2 de janeiro de 2008.

2. LOCALIZAÇÃO DO MARÉGRAFO (ATUALMENTE DESATIVADO):

— No molhe Leste do porto de Peniche:

Latitude 39° 20,99' N; Longitude 9° 22,48' W – WGS84.

3. ALTURAS DE MARÉ:

— Referidas ao nível do zero hidrográfico.

— Nível médio: 2,00 m.

4. ZERO HIDROGRÁFICO:

— 2,00 m abaixo do nível médio adotado (Cascais, 1938).

— 6,175 m abaixo da marca de contacto (MC).

— 7,661 m abaixo da marca de nivelamento 3/75 colocada junto do farolim.

— 6,539 m abaixo da marca MN 4/75, situada na raiz do molhe E.

— 58,418 m abaixo da marca de nivelamento principal NP222 (IGP) localizada em Óbidos, cimentada no degrau inferior da Praça de S. João, à esquerda do Paço, à porta da Vila.

Porto de Peniche

Latitude 39° 20.99' N Longitude 9° 22.48' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JANEIRO | | | | FEVEREIRO | | | | MARÇO | | | | | | | | | | | | | |
|-----------|-----------|--------|-----------|-----------|--------|-----------|-----------|-------|-----------|-----------|--------|-----------|-----------|-----|-----------|-----------|-----|-------|-----|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | | | | | |
| 01 | 03:18 | 3.3 | 17 | 04:43 | 3.4 | 01 | 04:25 | 3.7 | 17 | 05:16 | 3.1 | 01 | 03:23 | 3.8 | 17 | 04:13 | 3.2 | | | | |
| | 09:35 | 0.6 | | 10:58 | 0.7 | | 10:40 | 0.4 | | 11:24 | 0.9 | | 09:36 | 0.2 | | 10:18 | 0.7 | | | | |
| | 15:44 | 3.1 | | SEX 17:05 | 3.0 | | SÁB 16:50 | 3.3 | | SEG 17:34 | 2.9 | | SÁB 15:46 | 3.5 | | SEG 16:27 | 3.2 | | | | |
| | 21:42 | 0.8 | | 22:59 | 0.8 | | 22:50 | 0.5 | | 23:33 | 1.0 | | 21:48 | 0.3 | | 22:29 | 0.8 | | | | |
| 02 | 03:58 | 3.4 | 18 | 05:19 | 3.2 | 02 | 05:08 | 3.6 | 18 | 05:47 | 3.0 | 02 | 04:04 | 3.8 | 18 | 04:41 | 3.1 | | | | |
| | 10:16 | 0.6 | | 11:33 | 0.8 | | 11:22 | 0.5 | | 11:56 | 1.0 | | 10:15 | 0.2 | | 10:46 | 0.8 | | | | |
| | QUI 16:25 | 3.1 | | SÁB 17:41 | 2.9 | | DOM 17:32 | 3.2 | | TER 18:08 | 2.8 | | DOM 16:26 | 3.5 | | TER 16:57 | 3.0 | | | | |
| | 22:23 | 0.8 | | 23:35 | 1.0 | | 23:33 | 0.6 | | | | | 22:29 | 0.3 | | 23:01 | 0.9 | | | | |
| 03 | 04:41 | 3.4 | 19 | 05:54 | 3.1 | 03 | 05:53 | 3.4 | 19 | 00:10 | 1.1 | 03 | 04:46 | 3.7 | 19 | 05:12 | 2.9 | | | | |
| | 10:59 | 0.6 | | 12:09 | 1.0 | | 12:05 | 0.6 | | 06:23 | 2.8 | | 10:55 | 0.4 | | 11:16 | 1.0 | | | | |
| | SEX 17:09 | 3.1 | | DOM 18:18 | 2.8 | | SEG 18:18 | 3.1 | | QUA 12:32 | 1.2 | | SEG 17:07 | 3.4 | | QUA 17:29 | 2.9 | | | | |
| | 23:06 | 0.8 | | | | | | | | 18:49 | 2.7 | | 23:12 | 0.5 | | 23:35 | 1.1 | | | | |
| 04 | 05:26 | 3.4 | 20 | 00:13 | 1.1 | 04 | 00:21 | 0.8 | 20 | 00:53 | 1.3 | 04 | 05:30 | 3.5 | 20 | 05:46 | 2.8 | | | | |
| | 11:44 | 0.7 | | 06:32 | 2.9 | | 06:42 | 3.2 | | 07:07 | 2.6 | | 11:38 | 0.6 | | 11:49 | 1.2 | | | | |
| | SÁB 17:56 | 3.0 | | SEG 12:47 | 1.1 | | TER 12:54 | 0.8 | | QUI 13:18 | 1.4 | | TER 17:52 | 3.2 | | QUI 18:07 | 2.8 | | | | |
| | 23:54 | 0.9 | | 18:59 | 2.7 | | 19:10 | 2.9 | | ((19:43 | 2.5 | | 23:59 | 0.7 | | | | | | | |
| 05 | 06:15 | 3.3 | 21 | 00:57 | 1.3 | 05 | 01:16 | 1.0 | 21 | 01:54 | 1.5 | 05 | 06:19 | 3.2 | 21 | 00:16 | 1.2 | | | | |
| | 12:34 | 0.8 | | 07:15 | 2.7 | | 07:39 | 3.0 | | 08:10 | 2.4 | | 12:24 | 0.9 | | 06:28 | 2.6 | | | | |
| | DOM 18:47 | 2.9 | | TER 13:32 | 1.3 | | QUA 13:51 | 1.1 | | SEX 14:27 | 1.5 | | QUA 18:42 | 3.0 | | SEX 12:30 | 1.3 | | | | |
| | | | | ((19:50 | 2.5 | |) 20:13 | 2.8 | | 21:03 | 2.4 | | | | | 18:57 | 2.6 | | | | |
| 06 | 00:46 | 1.0 | 22 | 01:51 | 1.4 | 06 | 02:26 | 1.2 | 22 | 03:32 | 1.6 | 06 | 00:55 | 1.0 | 22 | 01:12 | 1.4 | | | | |
| | 07:09 | 3.1 | | 08:09 | 2.5 | | 08:51 | 2.7 | | 09:51 | 2.3 | | 07:17 | 2.8 | | 07:28 | 2.4 | | | | |
| | SEG 13:28 | 0.9 | | QUA 14:30 | 1.4 | | QUI 15:06 | 1.3 | | SÁB 16:13 | 1.5 | | QUI 13:21 | 1.2 | | SÁB 13:33 | 1.5 | | | | |
| |) 19:45 | 2.8 | | 20:55 | 2.5 | | 21:34 | 2.7 | | 22:40 | 2.5 | |) 19:47 | 2.8 | | ((20:11 | 2.5 | | | | |
| 07 | 01:47 | 1.1 | 23 | 03:04 | 1.5 | 07 | 04:01 | 1.3 | 23 | 05:16 | 1.5 | 07 | 02:11 | 1.2 | 23 | 02:45 | 1.5 | | | | |
| | 08:09 | 3.0 | | 09:20 | 2.4 | | 10:21 | 2.6 | | 11:28 | 2.4 | | 08:37 | 2.6 | | 09:10 | 2.3 | | | | |
| | TER 14:29 | 1.0 | | QUI 15:45 | 1.4 | | SEX 16:38 | 1.3 | | DOM 17:38 | 1.4 | | SEX 14:44 | 1.4 | | DOM 15:24 | 1.6 | | | | |
| | 20:50 | 2.8 | | 22:12 | 2.5 | | 23:02 | 2.7 | | 23:52 | 2.7 | | 21:18 | 2.6 | | 21:53 | 2.5 | | | | |
| 08 | 02:57 | 1.1 | 24 | 04:31 | 1.5 | 08 | 05:34 | 1.2 | 24 | 06:19 | 1.2 | 08 | 04:02 | 1.3 | 24 | 04:38 | 1.4 | | | | |
| | 09:18 | 2.9 | | 10:43 | 2.4 | | 11:47 | 2.7 | | 12:29 | 2.6 | | 10:22 | 2.5 | | 10:56 | 2.4 | | | | |
| | QUA 15:39 | 1.1 | | SEX 17:03 | 1.4 | | SÁB 17:57 | 1.2 | | SEG 18:32 | 1.2 | | SÁB 16:35 | 1.4 | | SEG 17:03 | 1.5 | | | | |
| | 22:01 | 2.8 | | 23:24 | 2.6 | | | | | | | | 22:56 | 2.7 | | 23:14 | 2.7 | | | | |
| 09 | 04:15 | 1.1 | 25 | 05:46 | 1.4 | 09 | 00:15 | 2.9 | 25 | 00:42 | 2.9 | 09 | 05:36 | 1.2 | 25 | 05:46 | 1.2 | | | | |
| | 10:33 | 2.8 | | 11:54 | 2.5 | | 06:42 | 1.0 | | 07:04 | 1.0 | | 11:48 | 2.6 | | 11:59 | 2.6 | | | | |
| | QUI 16:52 | 1.1 | | SÁB 18:04 | 1.3 | | DOM 12:52 | 2.8 | | TER 13:14 | 2.9 | | DOM 17:53 | 1.3 | | TER 18:01 | 1.2 | | | | |
| | 23:12 | 2.9 | | | | | 18:55 | 1.1 | | 19:14 | 1.0 | | | | | | | | | | |
| 10 | 05:31 | 1.1 | 26 | 00:21 | 2.7 | 10 | 01:10 | 3.1 | 26 | 01:25 | 3.2 | 10 | 00:08 | 2.9 | 26 | 00:09 | 2.9 | | | | |
| | 11:45 | 2.9 | | 06:41 | 1.2 | | 07:33 | 0.8 | | 07:43 | 0.7 | | 06:37 | 1.0 | | 06:33 | 0.9 | | | | |
| | SEX 17:58 | 1.0 | | DOM 12:49 | 2.7 | | SEG 13:41 | 2.9 | | QUA 13:53 | 3.1 | | SEG 12:45 | 2.8 | | QUA 12:44 | 2.9 | | | | |
| | | | | 18:53 | 1.1 | | 19:40 | 0.9 | | 19:53 | 0.7 | | 18:45 | 1.1 | | 18:45 | 0.9 | | | | |
| 11 | 00:16 | 3.0 | 27 | 01:06 | 2.9 | 11 | 01:55 | 3.3 | 27 | 02:04 | 3.4 | 11 | 00:58 | 3.1 | 27 | 00:55 | 3.2 | | | | |
| | 06:37 | 0.9 | | 07:25 | 1.0 | | 08:15 | 0.7 | | 08:21 | 0.5 | | 07:20 | 0.8 | | 07:13 | 0.6 | | | | |
| | SÁB 12:48 | 2.9 | | SEG 13:33 | 2.8 | | TER 14:21 | 3.1 | | QUI 14:30 | 3.3 | | TER 13:27 | 2.9 | | QUI 13:24 | 3.2 | | | | |
| | 18:55 | 0.9 | | 19:34 | 1.0 | | 20:19 | 0.8 | | 20:30 | 0.5 | | 19:25 | 0.9 | | 19:25 | 0.7 | | | | |
| 12 | 01:12 | 3.2 | 28 | 01:47 | 3.1 | 12 | 02:34 | 3.4 | 28 | 02:43 | 3.7 | 12 | 01:39 | 3.2 | 28 | 01:36 | 3.5 | | | | |
| | 07:32 | 0.8 | | 08:05 | 0.8 | | 08:51 | 0.6 | | 08:58 | 0.3 | | 07:56 | 0.7 | | 07:52 | 0.4 | | | | |
| | DOM 13:42 | 3.0 | | TER 14:13 | 3.0 | | QUA 14:57 | 3.2 | | SEX 15:07 | 3.5 | | QUA 14:02 | 3.1 | | SEX 14:02 | 3.4 | | | | |
| | 19:44 | 0.8 | | 20:13 | 0.8 | | ○ 20:54 | 0.7 | | ● 21:08 | 0.4 | | 19:59 | 0.8 | | 20:04 | 0.4 | | | | |
| 13 | 02:01 | 3.3 | 29 | 02:25 | 3.3 | 13 | 03:10 | 3.5 | 29 | 02:13 | 3.3 | 13 | 02:13 | 3.3 | 29 | 02:17 | 3.7 | | | | |
| | 08:21 | 0.6 | | 08:43 | 0.6 | | 09:24 | 0.5 | | 09:24 | 0.5 | | 08:27 | 0.6 | | 08:30 | 0.2 | | | | |
| | SEG 14:30 | 3.1 | | QUA 14:51 | 3.2 | | QUI 15:30 | 3.2 | | QUI 15:30 | 3.2 | | QUI 14:33 | 3.2 | | SÁB 14:40 | 3.6 | | | | |
| | ○ 20:28 | 0.7 | | ● 20:51 | 0.7 | | 21:26 | 0.6 | | | | | 20:31 | 0.7 | | ● 20:44 | 0.3 | | | | |
| 14 | 02:46 | 3.4 | 30 | 03:04 | 3.5 | 14 | 03:43 | 3.5 | 30 | 02:45 | 3.4 | 14 | 02:45 | 3.4 | 30 | 02:59 | 3.8 | | | | |
| | 09:04 | 0.6 | | 09:21 | 0.4 | | 09:55 | 0.6 | | 16:02 | 3.2 | | 08:56 | 0.6 | | 09:09 | 0.2 | | | | |
| | TER 15:13 | 3.2 | | QUI 15:30 | 3.3 | | SEX 16:02 | 3.2 | | 21:58 | 0.7 | | SEX 15:02 | 3.2 | | DOM 15:20 | 3.7 | | | | |
| | 21:09 | 0.7 | | 21:29 | 0.6 | | | | | | | | 21:01 | 0.6 | | 21:25 | 0.2 | | | | |
| 15 | 03:27 | 3.5 | 31 | 03:44 | 3.6 | 15 | 04:14 | 3.4 | 31 | 03:15 | 3.4 | 15 | 03:15 | 3.4 | 31 | 03:41 | 3.8 | | | | |
| | 09:45 | 0.5 | | 10:00 | 0.4 | | 10:25 | 0.6 | | 16:32 | 3.1 | | 09:23 | 0.6 | | 09:49 | 0.2 | | | | |
| | QUA 15:52 | 3.1 | | SEX 16:09 | 3.3 | | SÁB 16:32 | 3.1 | | 22:29 | 0.7 | | SÁB 15:31 | 3.2 | | SEG 16:01 | 3.6 | | | | |
| | 21:47 | 0.7 | | 22:08 | 0.5 | | | | | | | | 21:30 | 0.6 | | 22:08 | 0.3 | | | | |
| 16 | 04:06 | 3.4 | | | | 16 | 04:45 | 3.3 | 16 | 03:44 | 3.3 | 16 | 03:44 | 3.3 | | | | | | | |
| | 10:22 | 0.6 | | | | | 10:54 | 0.7 | | 10:54 | 0.7 | | 09:51 | 0.6 | | | | 15:59 | 3.2 | 15:59 | 3.2 |
| | QUI 16:30 | 3.1 | | | | | 17:02 | 3.1 | | 23:00 | 0.8 | | | | | | | 21:59 | 0.7 | | |
| | 22:23 | 0.8 | | | | | | | | | | | | | | | | | | | |

Porto de Peniche

Latitude 39° 20.99' N Longitude 9° 22.48' W

Horas do Fuso: 0 (TU)

Ano: 2025

| ABRIL | | | | MAIO | | | | JUNHO | | | | | | | | | |
|-----------|-------|--------|-----------|-------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-----|-----------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 04:25 | 3.6 | 17 | 04:46 | 2.9 | 01 | 04:59 | 3.2 | 17 | 05:13 | 2.7 | 01 | 00:27 | 0.9 | 17 | 00:32 | 0.9 |
| | 10:30 | 0.4 | | 10:46 | 1.0 | | 10:57 | 0.8 | | 11:08 | 1.1 | | 06:40 | 2.8 | | 06:46 | 2.7 |
| TER | 16:44 | 3.5 | QUI | 17:03 | 3.0 | QUI | 17:17 | 3.3 | SÁB | 17:30 | 2.9 | DOM | 12:31 | 1.2 | TER | 12:41 | 1.1 |
| | 22:54 | 0.4 | | 23:13 | 1.0 | | 23:37 | 0.7 | | 23:50 | 1.1 | | 18:57 | 3.0 | | 19:04 | 3.0 |
| 02 | 05:12 | 3.4 | 18 | 05:23 | 2.7 | 02 | 05:54 | 2.9 | 18 | 06:02 | 2.6 | 02 | 01:28 | 1.0 | 18 | 01:27 | 1.0 |
| | 11:14 | 0.7 | | 11:21 | 1.2 | | 11:49 | 1.0 | | 11:56 | 1.3 | | 07:41 | 2.6 | | 07:44 | 2.7 |
| QUA | 17:31 | 3.3 | SEX | 17:42 | 2.8 | SEX | 18:13 | 3.1 | DOM | 18:22 | 2.8 | SEG | 13:33 | 1.3 | QUA | 13:42 | 1.2 |
| | 23:44 | 0.7 | | 23:57 | 1.2 | | | | | | | | 19:58 | 2.9 | (| 20:03 | 3.0 |
| 03 | 06:03 | 3.1 | 19 | 06:08 | 2.6 | 03 | 00:40 | 0.9 | 19 | 00:47 | 1.2 | 03 | 02:32 | 1.1 | 19 | 02:28 | 1.0 |
| | 12:03 | 1.0 | | 12:05 | 1.3 | | 06:58 | 2.7 | | 07:03 | 2.5 | | 08:46 | 2.5 | | 08:47 | 2.7 |
| QUI | 18:24 | 3.0 | SÁB | 18:33 | 2.7 | SÁB | 12:51 | 1.3 | SEG | 12:58 | 1.4 | TER | 14:40 | 1.4 | QUI | 14:49 | 1.2 |
| | | | | | | | 19:20 | 2.9 | | 19:25 | 2.8 |) | 21:03 | 2.8 | | 21:08 | 2.9 |
| 04 | 00:45 | 1.0 | 20 | 00:55 | 1.3 | 04 | 01:58 | 1.1 | 20 | 01:56 | 1.2 | 04 | 03:34 | 1.2 | 20 | 03:31 | 1.0 |
| | 07:06 | 2.7 | | 07:12 | 2.4 | | 08:16 | 2.5 | | 08:16 | 2.5 | | 09:49 | 2.6 | | 09:51 | 2.8 |
| SEX | 13:03 | 1.3 | DOM | 13:09 | 1.5 | DOM | 14:11 | 1.4 | TER | 14:14 | 1.4 | QUA | 15:48 | 1.4 | SEX | 15:57 | 1.1 |
| | 19:33 | 2.8 | | 19:43 | 2.6 |) | 20:39 | 2.8 | (| 20:36 | 2.8 | | 22:05 | 2.7 | | 22:13 | 3.0 |
| 05 | 02:08 | 1.2 | 21 | 02:19 | 1.4 | 05 | 03:23 | 1.2 | 21 | 03:09 | 1.1 | 05 | 04:31 | 1.2 | 21 | 04:34 | 0.9 |
| | 08:31 | 2.5 | | 08:43 | 2.4 | | 09:38 | 2.5 | | 09:30 | 2.6 | | 10:46 | 2.6 | | 10:53 | 2.9 |
| SÁB | 14:33 | 1.5 | SEG | 14:46 | 1.5 | SEG | 15:37 | 1.4 | QUA | 15:31 | 1.3 | QUI | 16:48 | 1.3 | SÁB | 17:03 | 1.0 |
|) | 21:05 | 2.7 | (| 21:12 | 2.6 |) | 21:57 | 2.7 |) | 21:47 | 2.9 |) | 23:02 | 2.7 |) | 23:17 | 3.0 |
| 06 | 03:55 | 1.3 | 22 | 03:54 | 1.3 | 06 | 04:34 | 1.2 | 22 | 04:16 | 1.0 | 06 | 05:21 | 1.2 | 22 | 05:33 | 0.9 |
| | 10:13 | 2.5 | | 10:14 | 2.5 | | 10:47 | 2.6 | | 10:33 | 2.8 | | 11:35 | 2.7 | | 11:51 | 3.1 |
| DOM | 16:18 | 1.5 | TER | 16:18 | 1.4 | TER | 16:47 | 1.3 | QUI | 16:37 | 1.1 | SEX | 17:41 | 1.2 | DOM | 18:05 | 0.8 |
| | 22:36 | 2.7 | | 22:30 | 2.8 | | 23:01 | 2.8 | | 22:50 | 3.0 | | 23:52 | 2.7 | | | |
| 07 | 05:16 | 1.2 | 23 | 05:02 | 1.1 | 07 | 05:29 | 1.1 | 23 | 05:12 | 0.8 | 07 | 06:04 | 1.1 | 23 | 00:18 | 3.1 |
| | 11:29 | 2.6 | | 11:18 | 2.7 | | 11:40 | 2.7 | | 11:28 | 3.0 | | 12:19 | 2.8 | | 06:29 | 0.8 |
| SEG | 17:30 | 1.3 | QUA | 17:20 | 1.2 | QUA | 17:40 | 1.2 | SEX | 17:34 | 0.9 | SÁB | 18:26 | 1.1 | SEG | 12:46 | 3.2 |
| | 23:43 | 2.8 | | 23:30 | 3.0 | | 23:52 | 2.9 | | 23:46 | 3.2 | | | | | 19:02 | 0.7 |
| 08 | 06:11 | 1.0 | 24 | 05:53 | 0.8 | 08 | 06:11 | 1.0 | 24 | 06:03 | 0.7 | 08 | 00:36 | 2.8 | 24 | 01:15 | 3.2 |
| | 12:21 | 2.7 | | 12:07 | 3.0 | | 12:21 | 2.8 | | 12:18 | 3.2 | | 06:43 | 1.0 | | 07:21 | 0.7 |
| TER | 18:20 | 1.1 | QUI | 18:09 | 0.9 | QUI | 18:22 | 1.1 | SÁB | 18:25 | 0.7 | DOM | 12:58 | 2.9 | TER | 13:39 | 3.4 |
| | | | | | | | | | | | | 19:08 | 1.0 | | 19:57 | 0.6 | |
| 09 | 00:32 | 3.0 | 25 | 00:20 | 3.2 | 09 | 00:34 | 2.9 | 25 | 00:38 | 3.3 | 09 | 01:16 | 2.8 | 25 | 02:09 | 3.2 |
| | 06:52 | 0.9 | | 06:38 | 0.6 | | 06:46 | 0.9 | | 06:50 | 0.6 | | 07:20 | 1.0 | | 08:11 | 0.7 |
| QUA | 13:00 | 2.9 | SEX | 12:50 | 3.2 | SEX | 12:57 | 2.9 | DOM | 13:05 | 3.4 | SEG | 13:35 | 3.0 | QUA | 14:29 | 3.5 |
| | 18:58 | 1.0 | | 18:54 | 0.6 | | 19:00 | 1.0 | | 19:15 | 0.5 | | 19:46 | 1.0 | ● | 20:49 | 0.5 |
| 10 | 01:11 | 3.1 | 26 | 01:06 | 3.5 | 10 | 01:11 | 3.0 | 26 | 01:28 | 3.4 | 10 | 01:53 | 2.9 | 26 | 03:00 | 3.2 |
| | 07:25 | 0.8 | | 07:20 | 0.4 | | 07:19 | 0.9 | | 07:37 | 0.5 | | 07:55 | 0.9 | | 08:59 | 0.7 |
| QUI | 13:33 | 3.0 | SÁB | 13:32 | 3.4 | SÁB | 13:30 | 3.1 | SEG | 13:52 | 3.5 | TER | 14:10 | 3.1 | QUI | 15:18 | 3.5 |
| | 19:32 | 0.9 | | 19:37 | 0.4 | | 19:34 | 0.9 | | 20:04 | 0.4 | | 20:23 | 0.9 | | 21:39 | 0.5 |
| 11 | 01:45 | 3.2 | 27 | 01:50 | 3.6 | 11 | 01:45 | 3.0 | 27 | 02:18 | 3.5 | 11 | 02:30 | 2.9 | 27 | 03:50 | 3.2 |
| | 07:55 | 0.7 | | 08:01 | 0.3 | | 07:50 | 0.8 | | 08:23 | 0.5 | | 08:30 | 0.9 | | 09:46 | 0.7 |
| SEX | 14:03 | 3.1 | DOM | 14:14 | 3.6 | DOM | 14:02 | 3.1 | TER | 14:39 | 3.5 | QUA | 14:45 | 3.1 | SEX | 16:06 | 3.5 |
| | 20:03 | 0.8 | ● | 20:21 | 0.3 | | 20:07 | 0.8 | ● | 20:53 | 0.4 | ○ | 20:59 | 0.9 | | 22:27 | 0.5 |
| 12 | 02:16 | 3.2 | 28 | 02:35 | 3.7 | 12 | 02:17 | 3.1 | 28 | 03:08 | 3.4 | 12 | 03:06 | 2.9 | 28 | 04:37 | 3.1 |
| | 08:23 | 0.7 | | 08:43 | 0.3 | | 08:20 | 0.8 | | 09:09 | 0.5 | | 09:05 | 0.9 | | 10:31 | 0.8 |
| SÁB | 14:32 | 3.2 | SEG | 14:56 | 3.6 | SEG | 14:33 | 3.2 | QUA | 15:27 | 3.5 | QUI | 15:20 | 3.2 | SÁB | 16:52 | 3.4 |
| | 20:33 | 0.7 | | 21:06 | 0.2 | ○ | 20:40 | 0.8 | | 21:44 | 0.4 | | 21:36 | 0.8 | | 23:13 | 0.6 |
| 13 | 02:45 | 3.2 | 29 | 03:21 | 3.6 | 13 | 02:49 | 3.0 | 29 | 03:58 | 3.3 | 13 | 03:44 | 2.9 | 29 | 05:23 | 3.0 |
| | 08:50 | 0.7 | | 09:26 | 0.4 | | 08:50 | 0.8 | | 09:57 | 0.6 | | 09:41 | 0.9 | | 11:16 | 0.9 |
| DOM | 15:00 | 3.2 | TER | 15:40 | 3.6 | TER | 15:04 | 3.2 | QUI | 16:16 | 3.5 | SEX | 15:58 | 3.2 | DOM | 17:38 | 3.3 |
| ○ | 21:03 | 0.7 | | 21:52 | 0.3 | | 21:13 | 0.8 | | 22:36 | 0.5 | | 22:15 | 0.8 | | 23:59 | 0.8 |
| 14 | 03:14 | 3.2 | 30 | 04:08 | 3.5 | 14 | 03:21 | 3.0 | 30 | 04:50 | 3.1 | 14 | 04:23 | 2.9 | 30 | 06:09 | 2.9 |
| | 09:18 | 0.7 | | 10:10 | 0.5 | | 09:21 | 0.8 | | 10:45 | 0.8 | | 10:19 | 1.0 | | 12:00 | 1.0 |
| SEG | 15:29 | 3.2 | QUA | 16:27 | 3.5 | QUA | 15:36 | 3.2 | SEX | 17:07 | 3.3 | SÁB | 16:38 | 3.2 | SEG | 18:23 | 3.1 |
| | 21:33 | 0.7 | | 22:42 | 0.5 | | 21:47 | 0.8 | | 23:30 | 0.7 | | 22:56 | 0.8 | | | |
| 15 | 03:44 | 3.1 | | | | 15 | 03:55 | 2.9 | 31 | 05:44 | 2.9 | 15 | 05:06 | 2.8 | 15 | 05:06 | 2.8 |
| | 09:46 | 0.8 | | | | | 09:54 | 0.9 | | 11:36 | 1.0 | | 11:01 | 1.0 | | 11:01 | 1.0 |
| TER | 15:58 | 3.2 | | | | QUI | 16:10 | 3.1 | SÁB | 18:00 | 3.2 | DOM | 17:21 | 3.1 | | 17:21 | 3.1 |
| | 22:04 | 0.8 | | | | | 22:23 | 0.9 | | | | | 23:42 | 0.9 | | 23:42 | 0.9 |
| 16 | 04:14 | 3.0 | | | | 16 | 04:31 | 2.8 | | | | 16 | 05:53 | 2.8 | 16 | 05:53 | 2.8 |
| | 10:15 | 0.9 | | | | | 10:29 | 1.0 | | | | | 11:48 | 1.1 | | 11:48 | 1.1 |
| QUA | 16:29 | 3.1 | | | | SEX | 16:47 | 3.0 | | | | | 18:10 | 3.1 | | 18:10 | 3.1 |
| | 22:37 | 0.9 | | | | | 23:03 | 1.0 | | | | | | | | | |

Porto de Peniche

Latitude 39° 20.99' N Longitude 9° 22.48' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JULHO | | | | AGOSTO | | | | SETEMBRO | | | | | | | | | |
|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 00:45 06:55 TER 12:47 19:10 | 0.9 2.7 1.2 2.9 | 17 | 00:55 07:11 QUI 13:11 19:33 | 0.8 2.9 1.0 3.1 | 01 | 01:15 07:33 SEX 13:34 19:52 | 1.2 2.6 1.3 2.6 | 17 | 02:22 08:49 DOM 15:13 21:35 | 1.2 2.7 1.2 2.6 | 01 | 02:10 08:48 SEG 15:20 21:37 | 1.5 2.4 1.6 2.3 | 17 | 05:17 11:33 QUA 18:05 | 1.3 2.9 1.0 |
| 02 | 01:32 07:45 QUA 13:39 20:01 | 1.1 2.6 1.3 2.8 | 18 | 01:49 08:08 SEX 14:14 20:35 | 0.9 2.8 1.1 2.9 | 02 | 02:08 08:33 SÁB 14:42 20:57 | 1.3 2.5 1.5 2.4 | 18 | 03:49 10:17 SEG 16:50 23:05 | 1.3 2.7 1.2 2.6 | 02 | 03:56 10:25 TER 17:03 23:15 | 1.6 2.5 1.5 2.4 | 18 | 00:14 06:16 QUI 12:29 18:53 | 2.8 1.1 3.1 0.8 |
| 03 | 02:24 08:41 QUI 14:39 20:59 | 1.2 2.6 1.4 2.6 | 19 | 02:52 09:15 SÁB 15:27 21:46 | 1.0 2.8 1.1 2.8 | 03 | 03:17 09:48 DOM 16:08 22:20 | 1.4 2.5 1.5 2.4 | 19 | 05:17 11:37 TER 18:08 | 1.2 2.9 1.0 | 03 | 05:22 11:37 QUA 18:05 | 1.4 2.6 1.3 | 19 | 01:00 06:59 SEX 13:13 19:31 | 2.9 0.9 3.2 0.7 |
| 04 | 03:22 09:42 SEX 15:48 22:03 | 1.3 2.6 1.4 2.6 | 20 | 04:04 10:27 DOM 16:47 23:02 | 1.1 2.8 1.1 2.8 | 04 | 04:38 11:04 SEG 17:29 23:37 | 1.4 2.6 1.4 2.4 | 20 | 00:18 06:22 QUA 12:39 19:04 | 2.8 1.1 3.1 0.8 | 04 | 00:15 06:16 QUI 12:27 18:49 | 2.6 1.3 2.9 1.0 | 20 | 01:38 07:36 SÁB 13:50 20:05 | 3.1 0.8 3.4 0.6 |
| 05 | 04:23 10:44 SÁB 16:56 23:06 | 1.3 2.6 1.4 2.5 | 21 | 05:16 11:38 SEG 18:00 | 1.1 2.9 1.0 | 05 | 05:46 12:05 TER 18:28 | 1.3 2.7 1.3 | 21 | 01:13 07:13 QUI 13:28 19:50 | 2.9 0.9 3.3 0.7 | 05 | 00:58 06:57 SEX 13:07 19:26 | 2.8 1.0 3.1 0.8 | 21 | 02:12 08:10 DOM 14:24 20:36 | 3.2 0.7 3.4 0.5 |
| 06 | 05:21 11:41 DOM 17:55 | 1.3 2.7 1.3 | 22 | 00:13 06:21 TER 12:40 19:03 | 2.9 1.0 3.1 0.8 | 06 | 00:35 06:38 QUA 12:53 19:13 | 2.6 1.2 2.9 1.1 | 22 | 01:57 07:55 SEX 14:11 20:29 | 3.1 0.8 3.4 0.5 | 06 | 01:35 07:34 SÁB 13:44 20:01 | 3.0 0.8 3.3 0.6 | 22 | 02:43 08:42 SEG 14:56 21:05 | 3.3 0.6 3.4 0.6 |
| 07 | 00:03 06:12 SEG 12:30 18:46 | 2.6 1.2 2.8 1.2 | 23 | 01:14 07:17 QUA 13:34 19:56 | 3.0 0.9 3.3 0.7 | 07 | 01:20 07:20 QUI 13:33 19:52 | 2.7 1.1 3.0 0.9 | 23 | 02:36 08:33 SÁB 14:49 21:05 | 3.2 0.7 3.5 0.5 | 07 | 02:10 08:09 DOM 14:21 20:36 | 3.2 0.6 3.5 0.4 | 23 | 03:13 09:12 TER 15:27 21:33 | 3.3 0.6 3.4 0.6 |
| 08 | 00:53 06:57 TER 13:13 19:30 | 2.7 1.1 2.9 1.1 | 24 | 02:06 08:05 QUI 14:23 20:44 | 3.1 0.8 3.4 0.5 | 08 | 01:59 07:58 SEX 14:10 20:28 | 2.9 0.9 3.2 0.7 | 24 | 03:12 09:08 DOM 15:25 21:38 | 3.2 0.6 3.5 0.5 | 08 | 02:45 08:45 SEG 14:59 21:12 | 3.4 0.5 3.7 0.3 | 24 | 03:42 09:43 QUA 15:56 22:01 | 3.2 0.7 3.2 0.7 |
| 09 | 01:36 07:37 QUA 13:52 20:09 | 2.8 1.0 3.0 0.9 | 25 | 02:52 08:50 SEX 15:07 21:27 | 3.2 0.7 3.5 0.5 | 09 | 02:36 08:34 SÁB 14:47 21:04 | 3.0 0.8 3.4 0.5 | 25 | 03:45 09:41 SEG 15:58 22:09 | 3.2 0.6 3.4 0.6 | 09 | 03:21 09:23 TER 15:38 21:49 | 3.5 0.4 3.7 0.3 | 25 | 04:11 10:14 QUI 16:26 22:30 | 3.2 0.8 3.1 0.8 |
| 10 | 02:16 08:15 QUI 14:30 20:47 | 2.9 1.0 3.1 0.8 | 26 | 03:35 09:31 SÁB 15:49 22:07 | 3.2 0.7 3.5 0.5 | 10 | 03:12 09:10 DOM 15:24 21:40 | 3.2 0.6 3.5 0.4 | 26 | 04:17 10:14 TER 16:31 22:40 | 3.2 0.7 3.3 0.7 | 10 | 03:59 10:02 QUA 16:19 22:28 | 3.5 0.4 3.7 0.4 | 26 | 04:42 10:46 SEX 16:57 23:00 | 3.0 0.9 2.9 1.0 |
| 11 | 02:54 08:52 SEX 15:07 21:24 | 2.9 0.9 3.2 0.7 | 27 | 04:15 10:09 DOM 16:28 22:45 | 3.2 0.7 3.5 0.6 | 11 | 03:49 09:47 SEG 16:03 22:18 | 3.3 0.6 3.6 0.4 | 27 | 04:48 10:47 QUA 17:03 23:10 | 3.1 0.8 3.2 0.8 | 11 | 04:40 10:45 QUI 17:02 23:10 | 3.4 0.4 3.5 0.5 | 27 | 05:15 11:21 SÁB 17:31 23:33 | 2.9 1.1 2.7 1.2 |
| 12 | 03:32 09:29 SÁB 15:44 22:02 | 3.0 0.8 3.3 0.7 | 28 | 04:52 10:47 SEG 17:06 23:21 | 3.1 0.8 3.3 0.7 | 12 | 04:27 10:26 TER 16:43 22:57 | 3.3 0.5 3.6 0.5 | 28 | 05:20 11:20 QUI 17:35 23:42 | 3.0 0.9 3.0 1.0 | 12 | 05:23 11:31 SEX 17:50 23:55 | 3.3 0.6 3.2 0.8 | 28 | 05:53 12:03 DOM 18:14 | 2.7 1.3 2.5 |
| 13 | 04:11 10:07 DOM 16:24 22:42 | 3.0 0.8 3.4 0.6 | 29 | 05:29 11:24 TER 17:43 23:57 | 3.0 0.9 3.2 0.9 | 13 | 05:07 11:08 QUA 17:26 23:38 | 3.3 0.6 3.5 0.6 | 29 | 05:55 11:57 SEX 18:11 | 2.8 1.1 2.7 | 13 | 06:13 12:24 SÁB 18:46 | 3.1 0.9 2.9 | 29 | 00:15 06:43 SEG 13:01 19:15 | 1.4 2.6 1.4 2.3 |
| 14 | 04:51 10:48 SEG 17:06 23:23 | 3.0 0.8 3.4 0.7 | 30 | 06:06 12:02 QUA 18:21 | 2.9 1.0 3.0 | 14 | 05:51 11:53 QUI 18:13 | 3.2 0.7 3.3 | 30 | 00:18 06:36 SÁB 12:41 18:54 | 1.2 2.7 1.3 2.5 | 14 | 00:49 07:14 DOM 13:35 19:59 | 1.1 2.9 1.1 2.6 | 30 | 01:18 07:58 TER 14:37 20:58 | 1.5 2.5 1.5 2.3 |
| 15 | 05:34 11:31 TER 17:50 | 3.0 0.8 3.3 | 31 | 00:34 06:46 QUI 12:44 19:02 | 1.0 2.7 1.2 2.8 | 15 | 00:23 06:39 SEX 12:44 19:06 | 0.8 3.0 0.9 3.0 | 31 | 01:03 07:30 DOM 13:42 19:57 | 1.4 2.5 1.5 2.4 | 15 | 02:04 08:37 SEG 15:17 21:39 | 1.3 2.7 1.3 2.5 | | | |
| 16 | 00:07 06:20 QUA 12:18 18:39 | 0.7 3.0 0.9 3.2 | | | | 16 | 01:15 07:36 SÁB 13:47 20:11 | 1.0 2.9 1.1 2.8 | | | | 16 | 03:50 10:16 TER 16:58 23:11 | 1.4 2.7 1.2 2.6 | | | |

Porto de Peniche

Latitude 39° 20.99' N Longitude 9° 22.48' W

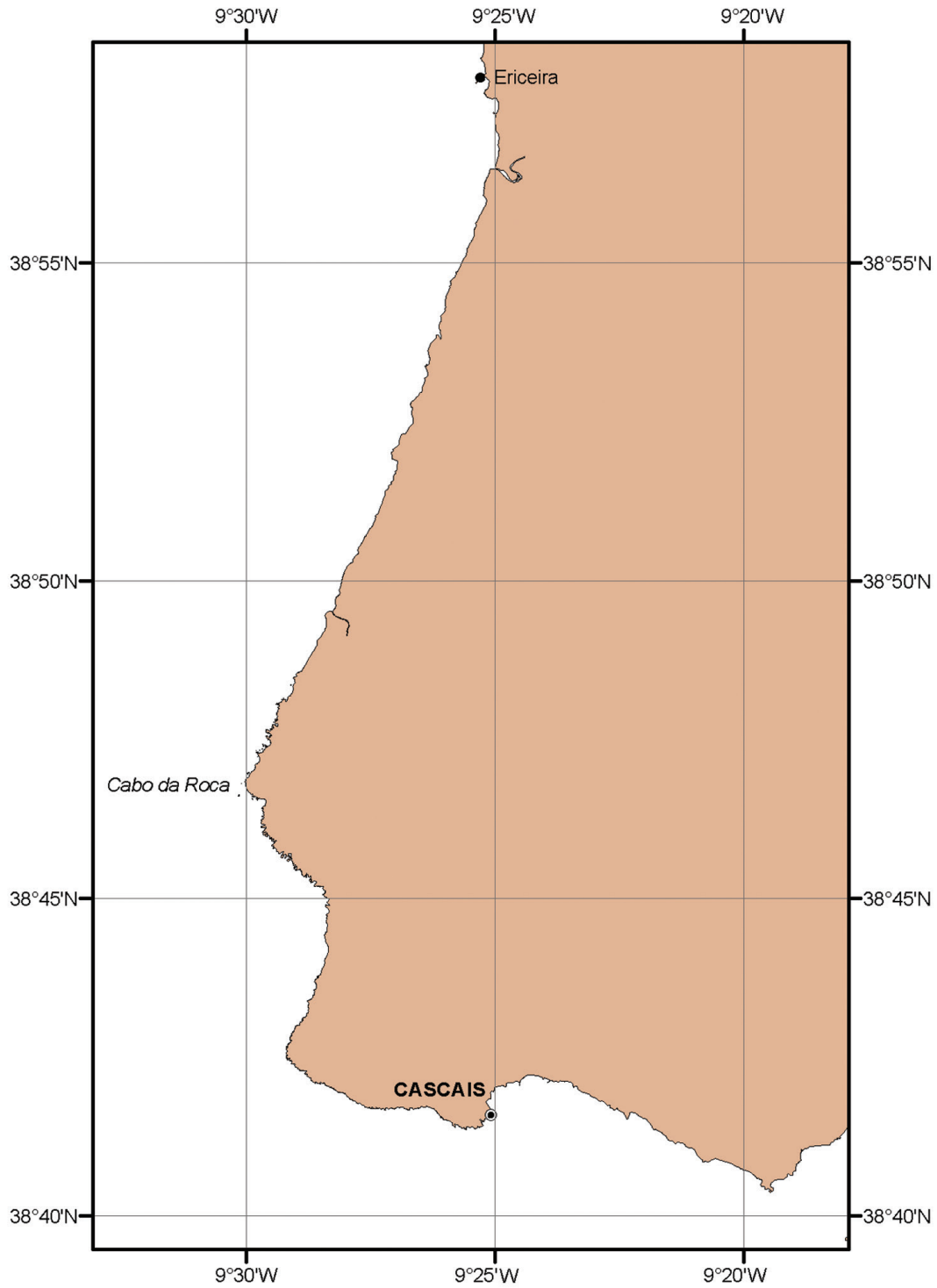
Horas do Fuso: 0 (TU)

Ano: 2025

| OUTUBRO | | | | NOVEMBRO | | | | DEZEMBRO | | | | | | | | | |
|-----------|-------|--------|-----------|----------|--------|-----------|--------|----------|-----------|-------|--------|-----------|-------|-----|-----------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 03:10 | 1.6 | 17 | 05:54 | 1.1 | 01 | 04:59 | 1.3 | 17 | 00:40 | 2.9 | 01 | 05:06 | 1.0 | 17 | 00:48 | 2.9 |
| | 09:39 | 2.5 | | 12:06 | 3.0 | | 11:07 | 2.9 | | 06:44 | 1.0 | | 11:18 | 3.1 | | 06:59 | 1.1 |
| | 16:26 | 1.4 | SEX | 18:28 | 0.9 | SÁB | 17:32 | 0.9 | SEG | 12:55 | 3.0 | SEG | 17:37 | 0.8 | QUA | 13:08 | 2.8 |
| | 22:43 | 2.4 | | | | | 23:45 | 2.9 | | 19:04 | 0.9 | | 23:52 | 3.1 | | 19:11 | 1.0 |
| 02 | 04:47 | 1.5 | 18 | 00:36 | 2.9 | 02 | 05:47 | 1.0 | 18 | 01:15 | 3.0 | 02 | 05:59 | 0.8 | 18 | 01:26 | 3.0 |
| | 10:58 | 2.6 | | 06:36 | 1.0 | | 11:56 | 3.1 | | 07:19 | 0.9 | | 12:11 | 3.2 | | 07:38 | 1.0 |
| | 17:30 | 1.2 | SÁB | 12:48 | 3.1 | DOM | 18:15 | 0.7 | TER | 13:30 | 3.0 | TER | 18:25 | 0.6 | QUI | 13:46 | 2.9 |
| | 23:43 | 2.6 | | 19:04 | 0.8 | | | | | 19:35 | 0.8 | | | | | 19:47 | 0.9 |
| 03 | 05:43 | 1.3 | 19 | 01:11 | 3.0 | 03 | 00:27 | 3.1 | 19 | 01:47 | 3.1 | 03 | 00:40 | 3.3 | 19 | 02:02 | 3.1 |
| | 11:51 | 2.9 | | 07:11 | 0.8 | | 06:30 | 0.8 | | 07:53 | 0.8 | | 06:49 | 0.6 | | 08:15 | 0.9 |
| | 18:15 | 1.0 | DOM | 13:24 | 3.2 | SEG | 12:41 | 3.4 | QUA | 14:03 | 3.0 | QUA | 13:02 | 3.4 | SEX | 14:22 | 2.9 |
| | | | | 19:35 | 0.7 | | 18:55 | 0.5 | | 20:06 | 0.8 | | 19:12 | 0.5 | | 20:21 | 0.9 |
| 04 | 00:25 | 2.8 | 20 | 01:43 | 3.2 | 04 | 01:07 | 3.3 | 20 | 02:19 | 3.2 | 04 | 01:27 | 3.4 | 20 | 02:36 | 3.1 |
| | 06:25 | 1.0 | | 07:44 | 0.7 | | 07:12 | 0.5 | | 08:27 | 0.8 | | 07:39 | 0.5 | | 08:50 | 0.9 |
| | 12:34 | 3.1 | SEG | 13:57 | 3.3 | TER | 13:24 | 3.5 | QUI | 14:36 | 3.0 | QUI | 13:52 | 3.4 | SÁB | 14:57 | 2.9 |
| | 18:52 | 0.7 | | 20:04 | 0.7 | | 19:36 | 0.4 | ● | 20:37 | 0.8 | ○ | 19:58 | 0.5 | ● | 20:55 | 0.9 |
| 05 | 01:03 | 3.1 | 21 | 02:13 | 3.2 | 05 | 01:48 | 3.5 | 21 | 02:50 | 3.2 | 05 | 02:14 | 3.6 | 21 | 03:10 | 3.2 |
| | 07:03 | 0.8 | | 08:15 | 0.7 | | 07:55 | 0.4 | | 09:00 | 0.8 | | 08:28 | 0.4 | | 09:25 | 0.8 |
| | 13:13 | 3.4 | TER | 14:28 | 3.3 | QUA | 14:08 | 3.6 | SEX | 15:08 | 3.0 | SEX | 14:42 | 3.4 | DOM | 15:32 | 2.9 |
| | 19:29 | 0.5 | ● | 20:33 | 0.7 | ○ | 20:17 | 0.3 | | 21:07 | 0.8 | | 20:45 | 0.5 | | 21:29 | 0.9 |
| 06 | 01:39 | 3.3 | 22 | 02:43 | 3.2 | 06 | 02:30 | 3.6 | 22 | 03:22 | 3.2 | 06 | 03:02 | 3.6 | 22 | 03:45 | 3.2 |
| | 07:41 | 0.5 | | 08:46 | 0.7 | | 08:39 | 0.3 | | 09:33 | 0.8 | | 09:19 | 0.4 | | 10:01 | 0.8 |
| | 13:52 | 3.6 | QUA | 14:58 | 3.2 | QUI | 14:54 | 3.6 | SÁB | 15:41 | 2.9 | SÁB | 15:33 | 3.4 | SEG | 16:08 | 2.9 |
| | 20:05 | 0.3 | | 21:01 | 0.7 | | 20:59 | 0.3 | | 21:39 | 0.9 | | 21:33 | 0.5 | | 22:04 | 0.9 |
| 07 | 02:15 | 3.5 | 23 | 03:12 | 3.2 | 07 | 03:14 | 3.6 | 23 | 03:56 | 3.1 | 07 | 03:51 | 3.6 | 23 | 04:21 | 3.2 |
| | 08:19 | 0.3 | | 09:17 | 0.7 | | 09:26 | 0.3 | | 10:09 | 0.9 | | 10:10 | 0.4 | | 10:38 | 0.8 |
| | 14:32 | 3.7 | QUI | 15:28 | 3.1 | SEX | 15:41 | 3.5 | DOM | 16:16 | 2.8 | DOM | 16:24 | 3.2 | TER | 16:46 | 2.9 |
| | 20:43 | 0.2 | | 21:29 | 0.8 | | 21:43 | 0.5 | | 22:13 | 1.0 | | 22:21 | 0.7 | | 22:42 | 1.0 |
| 08 | 02:53 | 3.6 | 24 | 03:42 | 3.2 | 08 | 04:00 | 3.5 | 24 | 04:32 | 3.0 | 08 | 04:42 | 3.5 | 24 | 05:00 | 3.1 |
| | 08:59 | 0.3 | | 09:49 | 0.8 | | 10:15 | 0.4 | | 10:47 | 1.0 | | 11:04 | 0.6 | | 11:19 | 0.9 |
| | 15:13 | 3.7 | SEX | 15:58 | 3.0 | SÁB | 16:31 | 3.3 | SEG | 16:55 | 2.7 | SEG | 17:17 | 3.1 | QUA | 17:27 | 2.8 |
| | 21:22 | 0.2 | | 21:59 | 0.9 | | 22:30 | 0.7 | | 22:51 | 1.1 | | 23:11 | 0.8 | | 23:23 | 1.0 |
| 09 | 03:34 | 3.6 | 25 | 04:13 | 3.1 | 09 | 04:50 | 3.4 | 25 | 05:12 | 2.9 | 09 | 05:35 | 3.3 | 25 | 05:43 | 3.1 |
| | 09:41 | 0.3 | | 10:22 | 0.9 | | 11:09 | 0.6 | | 11:31 | 1.1 | | 11:59 | 0.7 | | 12:02 | 0.9 |
| | 15:57 | 3.6 | SÁB | 16:30 | 2.9 | DOM | 17:26 | 3.0 | TER | 17:40 | 2.6 | TER | 18:12 | 2.9 | QUI | 18:14 | 2.8 |
| | 22:02 | 0.4 | | 22:30 | 1.0 | | 23:22 | 0.9 | | 23:35 | 1.2 | | | | | | |
| 10 | 04:16 | 3.5 | 26 | 04:47 | 3.0 | 10 | 05:46 | 3.2 | 26 | 05:59 | 2.8 | 10 | 00:05 | 1.0 | 26 | 00:09 | 1.1 |
| | 10:26 | 0.4 | | 10:59 | 1.1 | | 12:11 | 0.8 | | 12:23 | 1.2 | | 06:30 | 3.1 | | 06:31 | 3.0 |
| | 16:43 | 3.4 | DOM | 17:07 | 2.7 | SEG | 18:28 | 2.8 | QUA | 18:35 | 2.5 | QUA | 12:58 | 0.9 | SEX | 12:52 | 1.0 |
| | 22:46 | 0.6 | | 23:05 | 1.2 | | | | | | | | 19:10 | 2.7 | | 19:06 | 2.7 |
| 11 | 05:02 | 3.3 | 27 | 05:26 | 2.8 | 11 | 00:22 | 1.1 | 27 | 00:29 | 1.3 | 11 | 01:03 | 1.2 | 27 | 01:03 | 1.2 |
| | 11:16 | 0.6 | | 11:42 | 1.2 | | 06:51 | 3.0 | | 06:57 | 2.8 | | 07:30 | 3.0 | | 07:26 | 2.9 |
| | 17:34 | 3.1 | SEG | 17:51 | 2.5 | TER | 13:25 | 1.0 | QUI | 13:25 | 1.2 | QUI | 14:00 | 1.1 | SÁB | 13:47 | 1.0 |
| | 23:34 | 0.9 | | 23:47 | 1.3 | | 19:43 | 2.6 | | 19:43 | 2.5 | ((| 20:14 | 2.6 |)) | 20:05 | 2.7 |
| 12 | 05:56 | 3.1 | 28 | 06:15 | 2.7 | 12 | 01:38 | 1.3 | 28 | 01:39 | 1.4 | 12 | 02:09 | 1.3 | 28 | 02:06 | 1.2 |
| | 12:15 | 0.9 | | 12:38 | 1.3 | | 08:07 | 2.8 | | 08:04 | 2.7 | | 08:34 | 2.8 | | 08:27 | 2.9 |
| | 18:35 | 2.8 | TER | 18:52 | 2.4 | QUA | 14:49 | 1.1 | SEX | 14:37 | 1.2 | SEX | 15:06 | 1.2 | DOM | 14:50 | 1.1 |
| | | | | | | ((| 21:05 | 2.5 |)) | 20:57 | 2.5 | | 21:20 | 2.6 | | 21:11 | 2.7 |
| 13 | 00:33 | 1.2 | 29 | 00:48 | 1.5 | 13 | 03:04 | 1.4 | 29 | 02:57 | 1.4 | 13 | 03:19 | 1.3 | 29 | 03:17 | 1.2 |
| | 07:02 | 2.9 | | 07:23 | 2.6 | | 09:26 | 2.8 | | 09:15 | 2.8 | | 09:40 | 2.7 | | 09:36 | 2.9 |
| | 13:34 | 1.1 | QUA | 14:00 | 1.4 | QUI | 16:06 | 1.1 | SÁB | 15:45 | 1.1 | SÁB | 16:09 | 1.2 | SEG | 15:57 | 1.1 |
| | ((| 19:56 |)) | 20:21 | 2.3 | | 22:19 | 2.6 | | 22:04 | 2.7 | | 22:24 | 2.6 | | 22:18 | 2.8 |
| 14 | 01:56 | 1.4 | 30 | 02:21 | 1.6 | 14 | 04:19 | 1.3 | 30 | 04:07 | 1.2 | 14 | 04:27 | 1.3 | 30 | 04:29 | 1.1 |
| | 08:29 | 2.7 | | 08:50 | 2.6 | | 10:35 | 2.8 | | 10:20 | 2.9 | | 10:43 | 2.7 | | 10:45 | 2.9 |
| | 15:17 | 1.2 | QUI | 15:33 | 1.4 | SEX | 17:05 | 1.1 | DOM | 16:45 | 1.0 | DOM | 17:05 | 1.2 | TER | 17:03 | 1.0 |
| | 21:35 | 2.5 | | 21:54 | 2.4 | | 23:16 | 2.7 | | 23:01 | 2.9 | | 23:19 | 2.7 | | 23:22 | 2.9 |
| 15 | 03:40 | 1.4 | 31 | 03:55 | 1.5 | 15 | 05:18 | 1.2 | 15 | 05:26 | 1.3 | 15 | 05:26 | 1.3 | 31 | 05:37 | 1.0 |
| | 10:02 | 2.8 | | 10:08 | 2.7 | | 11:31 | 2.9 | | 11:38 | 2.7 | | 11:38 | 2.7 | | 11:51 | 3.0 |
| | 16:44 | 1.1 | SEX | 16:42 | 1.2 | SÁB | 17:52 | 1.0 | SEG | 17:52 | 1.1 | QUA | 18:03 | 0.9 | | | |
| | 22:57 | 2.6 | | 22:58 | 2.6 | | | | | | | | | | | | |
| 16 | 04:59 | 1.3 | | | | 16 | 00:02 | 2.8 | 16 | 00:06 | 2.8 | 16 | 00:06 | 2.8 | | | |
| | 11:13 | 2.9 | | | | | 06:04 | 1.1 | | 06:16 | 1.2 | | 06:16 | 1.2 | | | |
| | 17:44 | 1.0 | | | | DOM | 12:16 | 3.0 | | 12:26 | 2.8 | | 12:26 | 2.8 | | | |
| | 23:53 | 2.8 | | | | | 18:30 | 0.9 | | 18:33 | 1.1 | | 18:33 | 1.1 | | | |

201.6

CASCAIS



PORTO DE CASCAIS

NOTAS

1. ANÁLISE HARMÓNICA:

— Efetuada a partir de um ano de observações maregráficas, de 31 de dezembro de 2004 a 1 de janeiro de 2006.

2. LOCALIZAÇÃO DO MARÉGRAFO:

— No edifício da Marina de Cascais, junto ao Cais de Receção:
Latitude 38° 41,59' N; Longitude 9° 24,92' W – WGS84.

3. ALTURAS DE MARÉ:

— Referidas ao nível do zero hidrográfico.
— Nível médio: 2,08 m.

4. ZERO HIDROGRÁFICO:

— 2,08 m abaixo do nível médio adotado (Cascais, 1938).
— 6,387 m abaixo da marca de contacto existente na borda do poço do marégrafo analógico.
— 5,636 m abaixo da marca de contacto existente na borda do poço do marégrafo acústico/digital.
— 15,449 m abaixo da marca de nivelamento principal NP1 (IGP) chumbada na laje da soleira do portão principal da Cidadela.

Porto de Cascais

Latitude 38° 41.59' N Longitude 9° 24.92' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JANEIRO | | | | FEVEREIRO | | | | MARÇO | | | | | | | | | | | | | |
|-----------|-----------|--------|-----------|-----------|--------|-----------|-----------|-------|-----------|-----------|--------|-----------|-----------|-----|-----------|-----------|-----|-------|-----|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | | | | | |
| 01 | 03:07 | 3.4 | 17 | 04:33 | 3.4 | 01 | 04:16 | 3.7 | 17 | 05:06 | 3.2 | 01 | 03:13 | 3.8 | 17 | 04:02 | 3.3 | | | | |
| | 09:23 | 0.8 | | 10:46 | 0.8 | | 10:29 | 0.5 | | 11:11 | 1.0 | | 09:25 | 0.3 | | 10:05 | 0.8 | | | | |
| | 15:33 | 3.1 | | SEX 16:55 | 3.0 | | SÁB 16:40 | 3.3 | | SEG 17:23 | 3.0 | | SÁB 15:36 | 3.6 | | SEG 16:16 | 3.2 | | | | |
| | 21:30 | 0.9 | | 22:47 | 1.0 | | 22:38 | 0.6 | | 23:20 | 1.1 | | 21:36 | 0.4 | | 22:16 | 0.9 | | | | |
| 02 | 03:48 | 3.4 | 18 | 05:09 | 3.3 | 02 | 04:58 | 3.6 | 18 | 05:37 | 3.0 | 02 | 03:54 | 3.8 | 18 | 04:31 | 3.1 | | | | |
| | 10:04 | 0.7 | | 11:21 | 1.0 | | 11:10 | 0.6 | | 11:43 | 1.2 | | 10:04 | 0.4 | | 10:32 | 1.0 | | | | |
| | QUI 16:15 | 3.1 | | SÁB 17:30 | 2.9 | | DOM 17:23 | 3.3 | | TER 17:57 | 2.8 | | DOM 16:16 | 3.5 | | TER 16:45 | 3.1 | | | | |
| | 22:11 | 0.9 | | 23:23 | 1.1 | | 23:22 | 0.7 | | 23:56 | 1.3 | | 22:17 | 0.5 | | 22:47 | 1.0 | | | | |
| 03 | 04:31 | 3.4 | 19 | 05:45 | 3.1 | 03 | 05:43 | 3.5 | 19 | 06:12 | 2.8 | 03 | 04:36 | 3.7 | 19 | 05:01 | 3.0 | | | | |
| | 10:47 | 0.7 | | 11:57 | 1.1 | | 11:55 | 0.7 | | 12:19 | 1.3 | | 10:44 | 0.5 | | 11:01 | 1.1 | | | | |
| | SEX 16:59 | 3.1 | | DOM 18:08 | 2.8 | | SEG 18:09 | 3.1 | | QUA 18:37 | 2.7 | | SEG 16:58 | 3.4 | | QUA 17:17 | 2.9 | | | | |
| | 22:56 | 0.9 | | | | | | | | | | | 23:00 | 0.6 | | 23:21 | 1.2 | | | | |
| 04 | 05:17 | 3.4 | 20 | 00:01 | 1.2 | 04 | 00:09 | 0.9 | 20 | 00:40 | 1.4 | 04 | 05:21 | 3.5 | 20 | 05:34 | 2.8 | | | | |
| | 11:33 | 0.8 | | 06:23 | 2.9 | | 06:32 | 3.3 | | 06:56 | 2.6 | | 11:27 | 0.7 | | 11:34 | 1.3 | | | | |
| | SÁB 17:47 | 3.0 | | SEG 12:36 | 1.2 | | TER 12:43 | 1.0 | | QUI 13:04 | 1.5 | | TER 17:42 | 3.2 | | QUI 17:55 | 2.8 | | | | |
| | 23:43 | 1.0 | | 18:50 | 2.7 | | 19:01 | 3.0 | | 19:32 | 2.6 | | 23:47 | 0.8 | | | | | | | |
| 05 | 06:06 | 3.3 | 21 | 00:45 | 1.4 | 05 | 01:04 | 1.1 | 21 | 01:42 | 1.6 | 05 | 06:10 | 3.2 | 21 | 00:02 | 1.4 | | | | |
| | 12:23 | 0.9 | | 07:06 | 2.7 | | 07:29 | 3.0 | | 08:01 | 2.4 | | 12:13 | 1.0 | | 06:16 | 2.6 | | | | |
| | DOM 18:39 | 3.0 | | TER 13:21 | 1.4 | | QUA 13:41 | 1.2 | | SEX 14:15 | 1.6 | | QUA 18:33 | 3.0 | | SEX 12:16 | 1.5 | | | | |
| | | | | ((19:41 | 2.6 | |) 20:04 | 2.8 | | 20:53 | 2.5 | | | | | 18:45 | 2.6 | | | | |
| 06 | 00:36 | 1.1 | 22 | 01:39 | 1.5 | 06 | 02:14 | 1.3 | 22 | 03:21 | 1.7 | 06 | 00:42 | 1.1 | 22 | 01:00 | 1.5 | | | | |
| | 06:59 | 3.2 | | 07:59 | 2.6 | | 08:41 | 2.8 | | 09:40 | 2.4 | | 07:07 | 2.9 | | 07:18 | 2.4 | | | | |
| | SEG 13:18 | 1.0 | | QUA 14:19 | 1.5 | | QUI 14:55 | 1.4 | | SÁB 16:00 | 1.6 | | QUI 13:10 | 1.3 | | SÁB 13:21 | 1.6 | | | | |
| |) 19:36 | 2.9 | | 20:46 | 2.5 | | 21:23 | 2.7 | | 22:28 | 2.5 | |) 19:37 | 2.8 | | ((20:01 | 2.5 | | | | |
| 07 | 01:36 | 1.2 | 23 | 02:52 | 1.6 | 07 | 03:47 | 1.4 | 23 | 05:03 | 1.6 | 07 | 01:59 | 1.3 | 23 | 02:36 | 1.6 | | | | |
| | 07:59 | 3.0 | | 09:10 | 2.5 | | 10:09 | 2.7 | | 11:14 | 2.5 | | 08:26 | 2.6 | | 08:59 | 2.3 | | | | |
| | TER 14:19 | 1.1 | | QUI 15:33 | 1.5 | | SEX 16:26 | 1.4 | | DOM 17:23 | 1.5 | | SEX 14:33 | 1.5 | | DOM 15:13 | 1.7 | | | | |
| | 20:41 | 2.8 | | 22:02 | 2.5 | | 22:49 | 2.8 | | 23:39 | 2.7 | | 21:05 | 2.7 | | 21:42 | 2.5 | | | | |
| 08 | 02:45 | 1.3 | 24 | 04:19 | 1.6 | 08 | 05:21 | 1.3 | 24 | 06:06 | 1.3 | 08 | 03:48 | 1.4 | 24 | 04:25 | 1.5 | | | | |
| | 09:08 | 2.9 | | 10:31 | 2.5 | | 11:35 | 2.7 | | 12:15 | 2.7 | | 10:10 | 2.5 | | 10:42 | 2.5 | | | | |
| | QUA 15:28 | 1.2 | | SEX 16:49 | 1.5 | | SÁB 17:45 | 1.3 | | SEG 18:18 | 1.3 | | SÁB 16:22 | 1.5 | | SEG 16:49 | 1.5 | | | | |
| | 21:52 | 2.8 | | 23:12 | 2.6 | | | | | | | | 22:44 | 2.7 | | 23:03 | 2.7 | | | | |
| 09 | 04:02 | 1.3 | 25 | 05:33 | 1.5 | 09 | 00:02 | 2.9 | 25 | 00:30 | 3.0 | 09 | 05:25 | 1.3 | 25 | 05:33 | 1.3 | | | | |
| | 10:22 | 2.9 | | 11:41 | 2.6 | | 06:30 | 1.1 | | 06:52 | 1.1 | | 11:37 | 2.6 | | 11:46 | 2.7 | | | | |
| | QUI 16:40 | 1.2 | | SÁB 17:50 | 1.4 | | DOM 12:40 | 2.8 | | TER 13:01 | 2.9 | | DOM 17:42 | 1.4 | | TER 17:48 | 1.3 | | | | |
| | 23:01 | 2.9 | | | | | 18:43 | 1.2 | | 19:01 | 1.1 | | 23:57 | 2.9 | | 23:58 | 3.0 | | | | |
| 10 | 05:18 | 1.2 | 26 | 00:07 | 2.8 | 10 | 00:58 | 3.1 | 26 | 01:13 | 3.2 | 10 | 06:26 | 1.1 | 26 | 06:20 | 1.0 | | | | |
| | 11:33 | 2.9 | | 06:28 | 1.3 | | 07:22 | 0.9 | | 07:31 | 0.8 | | 12:35 | 2.8 | | 12:32 | 3.0 | | | | |
| | SEX 17:46 | 1.1 | | DOM 12:35 | 2.7 | | SEG 13:30 | 3.0 | | QUA 13:41 | 3.1 | | SEG 18:34 | 1.2 | | QUA 18:33 | 1.0 | | | | |
| | | | | 18:39 | 1.3 | | 19:28 | 1.0 | | 19:41 | 0.8 | | | | | | | | | | |
| 11 | 00:04 | 3.0 | 27 | 00:53 | 3.0 | 11 | 01:44 | 3.3 | 27 | 01:54 | 3.5 | 11 | 00:48 | 3.1 | 27 | 00:44 | 3.3 | | | | |
| | 06:24 | 1.0 | | 07:13 | 1.1 | | 08:03 | 0.8 | | 08:09 | 0.6 | | 07:09 | 1.0 | | 07:01 | 0.7 | | | | |
| | SÁB 12:36 | 3.0 | | SEG 13:20 | 2.9 | | TER 14:10 | 3.1 | | QUI 14:19 | 3.3 | | TER 13:16 | 3.0 | | QUI 13:13 | 3.2 | | | | |
| | 18:42 | 1.1 | | 19:21 | 1.1 | | 20:06 | 0.9 | | 20:19 | 0.6 | | 19:14 | 1.0 | | 19:14 | 0.8 | | | | |
| 12 | 00:59 | 3.2 | 28 | 01:35 | 3.2 | 12 | 02:24 | 3.4 | 28 | 02:33 | 3.7 | 12 | 01:28 | 3.3 | 28 | 01:26 | 3.5 | | | | |
| | 07:20 | 0.9 | | 07:52 | 0.9 | | 08:39 | 0.7 | | 08:46 | 0.4 | | 07:44 | 0.8 | | 07:40 | 0.5 | | | | |
| | DOM 13:31 | 3.1 | | TER 14:00 | 3.0 | | QUA 14:46 | 3.2 | | SEX 14:57 | 3.5 | | QUA 13:51 | 3.1 | | SEX 13:52 | 3.5 | | | | |
| | 19:31 | 1.0 | | 20:00 | 0.9 | | ○ 20:41 | 0.8 | | ● 20:57 | 0.5 | | 19:47 | 0.9 | | 19:53 | 0.5 | | | | |
| 13 | 01:49 | 3.3 | 29 | 02:14 | 3.4 | 13 | 03:00 | 3.5 | 29 | 03:33 | 3.5 | 13 | 02:03 | 3.4 | 29 | 02:07 | 3.7 | | | | |
| | 08:09 | 0.8 | | 08:31 | 0.7 | | 09:12 | 0.7 | | 09:12 | 0.7 | | 08:15 | 0.8 | | 08:19 | 0.3 | | | | |
| | SEG 14:18 | 3.1 | | QUA 14:40 | 3.2 | | QUI 15:19 | 3.2 | | QUI 15:19 | 3.2 | | QUI 14:22 | 3.2 | | SÁB 14:31 | 3.6 | | | | |
| | ○ 20:15 | 0.9 | | ● 20:38 | 0.8 | | 21:14 | 0.8 | | 21:14 | 0.8 | | 20:18 | 0.8 | | ● 20:33 | 0.4 | | | | |
| 14 | 02:34 | 3.4 | 30 | 02:54 | 3.5 | 14 | 03:33 | 3.5 | 30 | 03:33 | 3.5 | 14 | 02:35 | 3.4 | 30 | 02:49 | 3.8 | | | | |
| | 08:52 | 0.7 | | 09:09 | 0.6 | | 09:42 | 0.7 | | 09:42 | 0.7 | | 08:43 | 0.7 | | 08:58 | 0.3 | | | | |
| | TER 15:02 | 3.2 | | QUI 15:19 | 3.3 | | SEX 15:51 | 3.2 | | SEX 15:51 | 3.2 | | SEX 14:52 | 3.3 | | DOM 15:11 | 3.7 | | | | |
| | 20:56 | 0.8 | | 21:17 | 0.7 | | 21:45 | 0.8 | | 21:45 | 0.8 | | ○ 20:48 | 0.8 | | 21:14 | 0.3 | | | | |
| 15 | 03:16 | 3.5 | 31 | 03:34 | 3.6 | 15 | 04:05 | 3.4 | 31 | 03:05 | 3.4 | 15 | 03:05 | 3.4 | 31 | 03:31 | 3.8 | | | | |
| | 09:32 | 0.7 | | 09:48 | 0.5 | | 10:12 | 0.8 | | 10:12 | 0.8 | | 09:10 | 0.7 | | 09:38 | 0.4 | | | | |
| | QUA 15:41 | 3.2 | | SEX 15:59 | 3.4 | | SÁB 16:21 | 3.2 | | SÁB 16:21 | 3.2 | | SÁB 15:20 | 3.3 | | SEG 15:51 | 3.6 | | | | |
| | 21:34 | 0.8 | | 21:57 | 0.6 | | 22:16 | 0.8 | | 22:16 | 0.8 | | 21:17 | 0.8 | | 21:56 | 0.4 | | | | |
| 16 | 03:56 | 3.5 | | | | 16 | 04:35 | 3.3 | 16 | 03:34 | 3.4 | 16 | 03:34 | 3.4 | | | | | | | |
| | 10:10 | 0.7 | | | | | 10:42 | 0.9 | | 10:42 | 0.9 | | 09:37 | 0.8 | | | | 10:10 | 0.7 | 09:37 | 0.8 |
| | QUI 16:19 | 3.1 | | | | | 16:52 | 3.1 | | 16:52 | 3.1 | | 15:48 | 3.2 | | | | 16:19 | 3.1 | 15:48 | 3.2 |
| | 22:11 | 0.9 | | | | | 22:47 | 1.0 | | 22:47 | 1.0 | | 21:46 | 0.8 | | | | 22:11 | 0.9 | 21:46 | 0.8 |

Porto de Cascais

Latitude 38° 41.59' N Longitude 9° 24.92' W

Horas do Fuso: 0 (TU)

Ano: 2025

| ABRIL | | | | MAIO | | | | JUNHO | | | | | | | | | |
|-----------|-------|--------|-----------|-------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-----|-----------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 04:15 | 3.7 | 17 | 04:35 | 2.9 | 01 | 04:49 | 3.3 | 17 | 05:01 | 2.8 | 01 | 00:14 | 1.0 | 17 | 00:19 | 1.1 |
| | 10:19 | 0.5 | | 10:31 | 1.1 | | 10:45 | 0.9 | | 10:55 | 1.2 | | 06:27 | 2.8 | | 06:34 | 2.8 |
| TER | 16:34 | 3.5 | QUI | 16:51 | 3.0 | QUI | 17:06 | 3.3 | SÁB | 17:19 | 3.0 | DOM | 12:18 | 1.3 | TER | 12:30 | 1.2 |
| | 22:41 | 0.6 | | 23:00 | 1.2 | | 23:25 | 0.8 | | 23:37 | 1.2 | | 18:46 | 3.0 | | 18:53 | 3.0 |
| 02 | 05:02 | 3.4 | 18 | 05:11 | 2.8 | 02 | 05:43 | 3.0 | 18 | 05:50 | 2.7 | 02 | 01:15 | 1.2 | 18 | 01:15 | 1.1 |
| | 11:02 | 0.8 | | 11:07 | 1.3 | | 11:36 | 1.2 | | 11:44 | 1.4 | | 07:28 | 2.7 | | 07:33 | 2.8 |
| QUA | 17:21 | 3.3 | SEX | 17:30 | 2.9 | SEX | 18:02 | 3.1 | DOM | 18:12 | 2.9 | SEG | 13:20 | 1.4 | QUA | 13:31 | 1.3 |
| | 23:32 | 0.8 | | 23:44 | 1.3 | | | | | | | | 19:48 | 2.9 | ⌋ | 19:53 | 3.0 |
| 03 | 05:53 | 3.1 | 19 | 05:57 | 2.6 | 03 | 00:28 | 1.1 | 19 | 00:35 | 1.3 | 03 | 02:20 | 1.3 | 19 | 02:17 | 1.1 |
| | 11:51 | 1.1 | | 11:52 | 1.4 | | 06:46 | 2.7 | | 06:51 | 2.6 | | 08:33 | 2.6 | | 08:37 | 2.8 |
| QUI | 18:14 | 3.1 | SÁB | 18:22 | 2.7 | SÁB | 12:39 | 1.4 | SEG | 12:47 | 1.4 | TER | 14:28 | 1.5 | QUI | 14:38 | 1.3 |
| | | | | | | | 19:09 | 2.9 | | 19:15 | 2.8 | ⌋ | 20:53 | 2.8 | | 20:58 | 3.0 |
| 04 | 00:33 | 1.1 | 20 | 00:44 | 1.4 | 04 | 01:46 | 1.2 | 20 | 01:44 | 1.3 | 04 | 03:23 | 1.3 | 20 | 03:21 | 1.1 |
| | 06:56 | 2.8 | | 07:01 | 2.5 | | 08:03 | 2.6 | | 08:04 | 2.6 | | 09:39 | 2.6 | | 09:42 | 2.8 |
| SEX | 12:51 | 1.4 | DOM | 12:58 | 1.6 | DOM | 13:58 | 1.5 | TER | 14:04 | 1.5 | QUA | 15:37 | 1.5 | SEX | 15:46 | 1.2 |
| | 19:21 | 2.8 | | 19:34 | 2.6 | ⌋ | 20:28 | 2.8 | ⌋ | 20:27 | 2.8 | | 21:57 | 2.8 | | 22:04 | 3.0 |
| 05 | 01:56 | 1.3 | 21 | 02:09 | 1.5 | 05 | 03:11 | 1.3 | 21 | 02:58 | 1.2 | 05 | 04:21 | 1.3 | 21 | 04:24 | 1.0 |
| | 08:19 | 2.5 | | 08:31 | 2.4 | | 09:27 | 2.5 | | 09:19 | 2.7 | | 10:37 | 2.7 | | 10:44 | 3.0 |
| SÁB | 14:21 | 1.6 | SEG | 14:36 | 1.6 | SEG | 15:25 | 1.5 | QUA | 15:20 | 1.4 | QUI | 16:38 | 1.4 | SÁB | 16:52 | 1.1 |
| ⌋ | 20:52 | 2.7 | ⌋ | 21:02 | 2.7 | ⌋ | 21:47 | 2.8 | ⌋ | 21:37 | 2.9 | ⌋ | 22:54 | 2.8 | ⌋ | 23:08 | 3.1 |
| 06 | 03:43 | 1.4 | 22 | 03:42 | 1.4 | 06 | 04:24 | 1.3 | 22 | 04:04 | 1.1 | 06 | 05:11 | 1.3 | 22 | 05:24 | 1.0 |
| | 10:01 | 2.5 | | 10:02 | 2.5 | | 10:37 | 2.6 | | 10:24 | 2.8 | | 11:27 | 2.8 | | 11:42 | 3.1 |
| DOM | 16:06 | 1.6 | TER | 16:06 | 1.5 | TER | 16:36 | 1.4 | QUI | 16:26 | 1.2 | SEX | 17:31 | 1.4 | DOM | 17:54 | 1.0 |
| | 22:26 | 2.8 | | 22:20 | 2.8 | | 22:53 | 2.8 | | 22:40 | 3.1 | | 23:43 | 2.8 | | | |
| 07 | 05:06 | 1.3 | 23 | 04:50 | 1.2 | 07 | 05:19 | 1.2 | 23 | 05:01 | 1.0 | 07 | 05:54 | 1.2 | 23 | 00:08 | 3.2 |
| | 11:19 | 2.6 | | 11:07 | 2.8 | | 11:30 | 2.7 | | 11:19 | 3.0 | | 12:10 | 2.9 | | 06:19 | 0.9 |
| SEG | 17:19 | 1.4 | QUA | 17:09 | 1.3 | QUA | 17:29 | 1.3 | SEX | 17:22 | 1.0 | SÁB | 18:16 | 1.3 | SEG | 12:36 | 3.2 |
| | 23:34 | 2.9 | | 23:20 | 3.0 | | 23:43 | 2.9 | | 23:36 | 3.2 | | | | | 18:51 | 0.8 |
| 08 | 06:01 | 1.2 | 24 | 05:42 | 1.0 | 08 | 06:01 | 1.1 | 24 | 05:52 | 0.8 | 08 | 00:26 | 2.8 | 24 | 01:05 | 3.2 |
| | 12:11 | 2.8 | | 11:57 | 3.0 | | 12:12 | 2.9 | | 12:08 | 3.2 | | 06:33 | 1.2 | | 07:11 | 0.8 |
| TER | 18:09 | 1.3 | QUI | 17:58 | 1.0 | QUI | 18:12 | 1.2 | SÁB | 18:14 | 0.8 | DOM | 12:48 | 3.0 | TER | 13:28 | 3.4 |
| | | | | | | | | | | | | | 18:56 | 1.2 | | 19:45 | 0.7 |
| 09 | 00:22 | 3.0 | 25 | 00:10 | 3.3 | 09 | 00:25 | 3.0 | 25 | 00:28 | 3.4 | 09 | 01:05 | 2.9 | 25 | 01:59 | 3.3 |
| | 06:41 | 1.0 | | 06:27 | 0.7 | | 06:36 | 1.1 | | 06:40 | 0.7 | | 07:08 | 1.1 | | 08:00 | 0.8 |
| QUA | 12:49 | 2.9 | SEX | 12:40 | 3.3 | SEX | 12:47 | 3.0 | DOM | 12:55 | 3.4 | SEG | 13:24 | 3.0 | QUA | 14:18 | 3.5 |
| | 18:47 | 1.1 | | 18:43 | 0.8 | | 18:48 | 1.1 | | 19:03 | 0.7 | | 19:34 | 1.1 | ● | 20:37 | 0.6 |
| 10 | 01:01 | 3.2 | 26 | 00:56 | 3.5 | 10 | 01:00 | 3.0 | 26 | 01:18 | 3.5 | 10 | 01:42 | 2.9 | 26 | 02:50 | 3.3 |
| | 07:14 | 0.9 | | 07:09 | 0.5 | | 07:07 | 1.0 | | 07:26 | 0.6 | | 07:43 | 1.1 | | 08:48 | 0.8 |
| QUI | 13:22 | 3.1 | SÁB | 13:22 | 3.5 | SÁB | 13:20 | 3.1 | SEG | 13:42 | 3.5 | TER | 13:59 | 3.1 | QUI | 15:07 | 3.5 |
| | 19:20 | 1.0 | | 19:26 | 0.6 | | 19:22 | 1.0 | | 19:52 | 0.6 | | 20:10 | 1.0 | | 21:26 | 0.6 |
| 11 | 01:34 | 3.2 | 27 | 01:40 | 3.7 | 11 | 01:34 | 3.1 | 27 | 02:08 | 3.5 | 11 | 02:18 | 3.0 | 27 | 03:39 | 3.2 |
| | 07:43 | 0.8 | | 07:50 | 0.4 | | 07:38 | 0.9 | | 08:12 | 0.6 | | 08:17 | 1.0 | | 09:33 | 0.8 |
| SEX | 13:52 | 3.2 | DOM | 14:04 | 3.6 | DOM | 13:51 | 3.2 | TER | 14:28 | 3.6 | QUA | 14:33 | 3.2 | SEX | 15:55 | 3.5 |
| | 19:51 | 0.9 | ● | 20:09 | 0.4 | ● | 19:55 | 1.0 | ● | 20:42 | 0.5 | ○ | 20:46 | 1.0 | ○ | 22:14 | 0.7 |
| 12 | 02:05 | 3.3 | 28 | 02:25 | 3.7 | 12 | 02:06 | 3.1 | 28 | 02:58 | 3.4 | 12 | 02:54 | 3.0 | 28 | 04:25 | 3.1 |
| | 08:10 | 0.8 | | 08:32 | 0.4 | | 08:07 | 0.9 | | 08:58 | 0.7 | | 08:51 | 1.0 | | 10:18 | 0.9 |
| SÁB | 14:21 | 3.2 | SEG | 14:47 | 3.7 | SEG | 14:22 | 3.2 | QUA | 15:16 | 3.6 | QUI | 15:09 | 3.2 | SÁB | 16:41 | 3.4 |
| | 20:21 | 0.8 | | 20:54 | 0.4 | ○ | 20:27 | 0.9 | | 21:32 | 0.6 | | 21:23 | 1.0 | | 23:00 | 0.8 |
| 13 | 02:34 | 3.3 | 29 | 03:11 | 3.7 | 13 | 02:37 | 3.1 | 29 | 03:48 | 3.3 | 13 | 03:32 | 3.0 | 29 | 05:11 | 3.0 |
| | 08:37 | 0.8 | | 09:15 | 0.5 | | 08:37 | 0.9 | | 09:44 | 0.8 | | 09:27 | 1.0 | | 11:02 | 1.0 |
| DOM | 14:49 | 3.3 | TER | 15:30 | 3.6 | TER | 14:52 | 3.2 | QUI | 16:05 | 3.5 | SEX | 15:46 | 3.2 | DOM | 17:27 | 3.3 |
| ○ | 20:50 | 0.8 | | 21:40 | 0.5 | | 20:59 | 0.9 | | 22:24 | 0.7 | | 22:01 | 1.0 | | 23:45 | 0.9 |
| 14 | 03:03 | 3.2 | 30 | 03:59 | 3.5 | 14 | 03:10 | 3.0 | 30 | 04:39 | 3.1 | 14 | 04:11 | 2.9 | 30 | 05:56 | 2.9 |
| | 09:05 | 0.8 | | 09:58 | 0.7 | | 09:07 | 1.0 | | 10:32 | 0.9 | | 10:06 | 1.1 | | 11:47 | 1.1 |
| SEG | 15:18 | 3.2 | QUA | 16:17 | 3.5 | QUA | 15:24 | 3.2 | SEX | 16:56 | 3.4 | SÁB | 16:27 | 3.2 | SEG | 18:13 | 3.1 |
| | 21:20 | 0.9 | | 22:30 | 0.6 | | 21:33 | 1.0 | | 23:17 | 0.8 | | 22:43 | 1.0 | | | |
| 15 | 03:33 | 3.2 | | | | 15 | 03:43 | 3.0 | 31 | 05:32 | 3.0 | 15 | 04:54 | 2.9 | 15 | 04:54 | 2.9 |
| | 09:32 | 0.9 | | | | | 09:39 | 1.0 | | 11:23 | 1.1 | | 10:48 | 1.1 | | 10:48 | 1.1 |
| TER | 15:46 | 3.2 | | | | QUI | 15:58 | 3.1 | SÁB | 17:49 | 3.2 | DOM | 17:11 | 3.1 | | 17:11 | 3.1 |
| | 21:50 | 0.9 | | | | | 22:10 | 1.0 | | | | | 23:28 | 1.0 | | 23:28 | 1.0 |
| 16 | 04:03 | 3.1 | | | | 16 | 04:20 | 2.9 | | | | 16 | 05:41 | 2.8 | | 05:41 | 2.8 |
| | 10:01 | 1.0 | | | | | 10:14 | 1.1 | | | | | 11:36 | 1.2 | | 11:36 | 1.2 |
| QUA | 16:17 | 3.1 | | | | SEX | 16:36 | 3.1 | | | | | 17:59 | 3.1 | | 17:59 | 3.1 |
| | 22:23 | 1.0 | | | | | 22:50 | 1.1 | | | | | | | | | |

Porto de Cascais

Latitude 38° 41.59' N Longitude 9° 24.92' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JULHO | | | | AGOSTO | | | | SETEMBRO | | | | | | | | | |
|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 00:31 06:42 TER 12:35 19:00 | 1.1 2.8 1.3 3.0 | 17 | 00:43 07:00 QUI 13:00 19:22 | 1.0 2.9 1.1 3.1 | 01 | 01:02 07:22 SEX 13:22 19:42 | 1.3 2.6 1.5 2.6 | 17 | 02:11 08:40 DOM 15:01 21:25 | 1.3 2.8 1.3 2.7 | 01 | 01:58 08:40 SEG 15:14 21:31 | 1.6 2.5 1.7 2.3 | 17 | 05:07 11:23 QUA 17:55 | 1.4 2.9 1.1 |
| 02 | 01:19 07:33 QUA 13:27 19:52 | 1.2 2.7 1.4 2.8 | 18 | 01:38 07:59 SEX 14:02 20:25 | 1.1 2.9 1.2 3.0 | 02 | 01:55 08:23 SÁB 14:31 20:50 | 1.5 2.5 1.6 2.5 | 18 | 03:40 10:07 SEG 16:40 22:56 | 1.4 2.8 1.3 2.7 | 02 | 03:47 10:15 TER 16:55 23:05 | 1.7 2.5 1.6 2.4 | 18 | 00:05 06:05 QUI 12:19 18:42 | 2.8 1.2 3.1 0.9 |
| 03 | 02:12 08:30 QUI 14:28 20:50 | 1.4 2.6 1.5 2.7 | 19 | 02:42 09:06 SÁB 15:15 21:37 | 1.2 2.8 1.3 2.9 | 03 | 03:08 09:39 DOM 16:00 22:14 | 1.6 2.5 1.6 2.4 | 19 | 05:07 11:26 TER 17:57 | 1.4 2.9 1.1 | 03 | 05:11 11:26 QUA 17:55 | 1.6 2.7 1.4 | 19 | 00:50 06:48 SEX 13:02 19:20 | 3.0 1.0 3.3 0.8 |
| 04 | 03:11 09:33 SEX 15:37 21:55 | 1.4 2.6 1.5 2.6 | 20 | 03:54 10:18 DOM 16:35 22:53 | 1.2 2.9 1.2 2.9 | 04 | 04:30 10:54 SEG 17:20 23:29 | 1.6 2.6 1.5 2.5 | 20 | 00:09 06:12 QUA 12:28 18:54 | 2.8 1.2 3.1 0.9 | 04 | 00:04 06:04 QUI 12:15 18:37 | 2.6 1.4 2.9 1.1 | 20 | 01:27 07:24 SÁB 13:40 19:53 | 3.1 0.9 3.4 0.7 |
| 05 | 04:13 10:36 SÁB 16:46 22:58 | 1.4 2.6 1.5 2.6 | 21 | 05:07 11:28 SEG 17:49 | 1.2 3.0 1.1 | 05 | 05:36 11:54 TER 18:18 | 1.5 2.7 1.4 | 21 | 01:03 07:02 QUI 13:17 19:38 | 3.0 1.0 3.3 0.8 | 05 | 00:46 06:45 SEX 12:56 19:14 | 2.8 1.1 3.1 0.9 | 21 | 02:01 07:57 DOM 14:14 20:23 | 3.2 0.8 3.5 0.7 |
| 06 | 05:12 11:32 DOM 17:46 23:54 | 1.4 2.7 1.4 2.6 | 22 | 00:03 06:11 TER 12:29 18:52 | 2.9 1.1 3.1 0.9 | 06 | 00:25 06:26 QUA 12:41 19:02 | 2.6 1.3 2.9 1.2 | 22 | 01:47 07:43 SEX 14:00 20:17 | 3.1 0.9 3.4 0.7 | 06 | 01:23 07:21 SÁB 13:33 19:49 | 3.1 0.9 3.4 0.7 | 22 | 02:32 08:29 SEG 14:45 20:51 | 3.3 0.7 3.4 0.7 |
| 07 | 06:02 12:20 SEG 18:35 | 1.3 2.8 1.3 | 23 | 01:04 07:06 QUA 13:23 19:45 | 3.0 1.0 3.3 0.8 | 07 | 01:09 07:08 QUI 13:21 19:40 | 2.8 1.2 3.1 1.0 | 23 | 02:25 08:21 SÁB 14:38 20:52 | 3.2 0.8 3.5 0.6 | 07 | 01:58 07:57 DOM 14:11 20:24 | 3.3 0.7 3.6 0.5 | 23 | 03:01 08:59 TER 15:16 21:19 | 3.3 0.7 3.4 0.7 |
| 08 | 00:43 06:45 TER 13:02 19:18 | 2.7 1.2 3.0 1.2 | 24 | 01:56 07:54 QUI 14:12 20:31 | 3.1 0.9 3.4 0.7 | 08 | 01:47 07:45 SEX 13:59 20:15 | 3.0 1.0 3.3 0.8 | 24 | 03:00 08:55 DOM 15:14 21:24 | 3.3 0.7 3.5 0.6 | 08 | 02:34 08:34 SEG 14:48 21:00 | 3.4 0.6 3.7 0.4 | 24 | 03:31 09:29 QUA 15:45 21:47 | 3.3 0.8 3.3 0.8 |
| 09 | 01:25 07:25 QUA 13:40 19:57 | 2.8 1.1 3.1 1.0 | 25 | 02:42 08:37 SEX 14:56 21:14 | 3.2 0.8 3.5 0.6 | 09 | 02:24 08:22 SÁB 14:36 20:51 | 3.1 0.9 3.4 0.7 | 25 | 03:33 09:28 SEG 15:48 21:55 | 3.3 0.7 3.5 0.7 | 09 | 03:11 09:11 TER 15:28 21:37 | 3.5 0.5 3.7 0.4 | 25 | 04:00 10:00 QUI 16:15 22:15 | 3.2 0.9 3.1 1.0 |
| 10 | 02:04 08:02 QUI 14:18 20:34 | 2.9 1.1 3.2 0.9 | 26 | 03:24 09:18 SÁB 15:38 21:53 | 3.2 0.8 3.5 0.6 | 10 | 03:00 08:58 DOM 15:14 21:27 | 3.2 0.7 3.5 0.6 | 26 | 04:05 10:01 TER 16:20 22:25 | 3.2 0.8 3.3 0.8 | 10 | 03:50 09:50 QUA 16:09 22:16 | 3.5 0.5 3.7 0.5 | 26 | 04:30 10:32 SEX 16:45 22:45 | 3.1 1.0 2.9 1.1 |
| 11 | 02:42 08:39 SEX 14:55 21:11 | 3.0 1.0 3.3 0.8 | 27 | 04:03 09:56 DOM 16:18 22:31 | 3.2 0.8 3.5 0.7 | 11 | 03:38 09:35 SEG 15:53 22:05 | 3.3 0.7 3.6 0.5 | 27 | 04:37 10:33 QUA 16:51 22:56 | 3.1 0.9 3.2 1.0 | 11 | 04:30 10:32 QUI 16:52 22:57 | 3.5 0.6 3.5 0.7 | 27 | 05:02 11:07 SÁB 17:19 23:17 | 2.9 1.2 2.7 1.3 |
| 12 | 03:20 09:16 SÁB 15:33 21:49 | 3.0 0.9 3.3 0.8 | 28 | 04:40 10:33 SEG 16:56 23:07 | 3.1 0.9 3.4 0.9 | 12 | 04:16 10:14 TER 16:33 22:44 | 3.3 0.7 3.6 0.6 | 28 | 05:09 11:06 QUI 17:24 23:27 | 3.0 1.1 3.0 1.1 | 12 | 05:13 11:18 SEX 17:40 23:43 | 3.3 0.8 3.3 0.9 | 28 | 05:40 11:49 DOM 18:01 23:59 | 2.8 1.4 2.5 1.5 |
| 13 | 03:59 09:55 DOM 16:13 22:28 | 3.1 0.9 3.4 0.8 | 29 | 05:17 11:10 TER 17:33 23:42 | 3.0 1.0 3.2 1.0 | 13 | 04:57 10:56 QUA 17:16 23:25 | 3.3 0.7 3.5 0.7 | 29 | 05:43 11:43 SEX 17:59 | 2.9 1.3 2.8 | 13 | 06:03 12:12 SÁB 18:36 | 3.1 1.0 3.0 | 29 | 06:31 12:49 SEG 19:05 | 2.6 1.6 2.4 |
| 14 | 04:39 10:35 SEG 16:55 23:10 | 3.1 0.9 3.4 0.8 | 30 | 05:54 11:48 QUA 18:10 | 2.9 1.1 3.0 | 14 | 05:40 11:41 QUI 18:02 | 3.2 0.9 3.3 | 30 | 00:02 06:24 SÁB 12:27 18:43 | 1.3 2.7 1.4 2.6 | 14 | 00:37 07:04 DOM 13:23 19:49 | 1.2 2.9 1.2 2.7 | 30 | 01:05 07:49 TER 14:30 20:50 | 1.7 2.5 1.6 2.3 |
| 15 | 05:22 11:19 TER 17:40 23:54 | 3.1 0.9 3.3 0.9 | 31 | 00:20 06:34 QUI 12:31 18:51 | 1.2 2.8 1.3 2.8 | 15 | 00:11 06:29 SEX 12:32 18:55 | 0.9 3.0 1.0 3.1 | 31 | 00:47 07:18 DOM 13:30 19:48 | 1.5 2.6 1.6 2.4 | 15 | 01:54 08:27 SEG 15:06 21:29 | 1.5 2.7 1.4 2.6 | | | |
| 16 | 06:09 12:06 QUA 18:28 | 3.0 1.0 3.2 | | | | 16 | 01:04 07:27 SÁB 13:36 20:01 | 1.1 2.9 1.2 2.8 | | | | 16 | 03:40 10:04 TER 16:48 23:02 | 1.5 2.8 1.3 2.6 | | | |

Porto de Cascais

Latitude 38° 41.59' N Longitude 9° 24.92' W

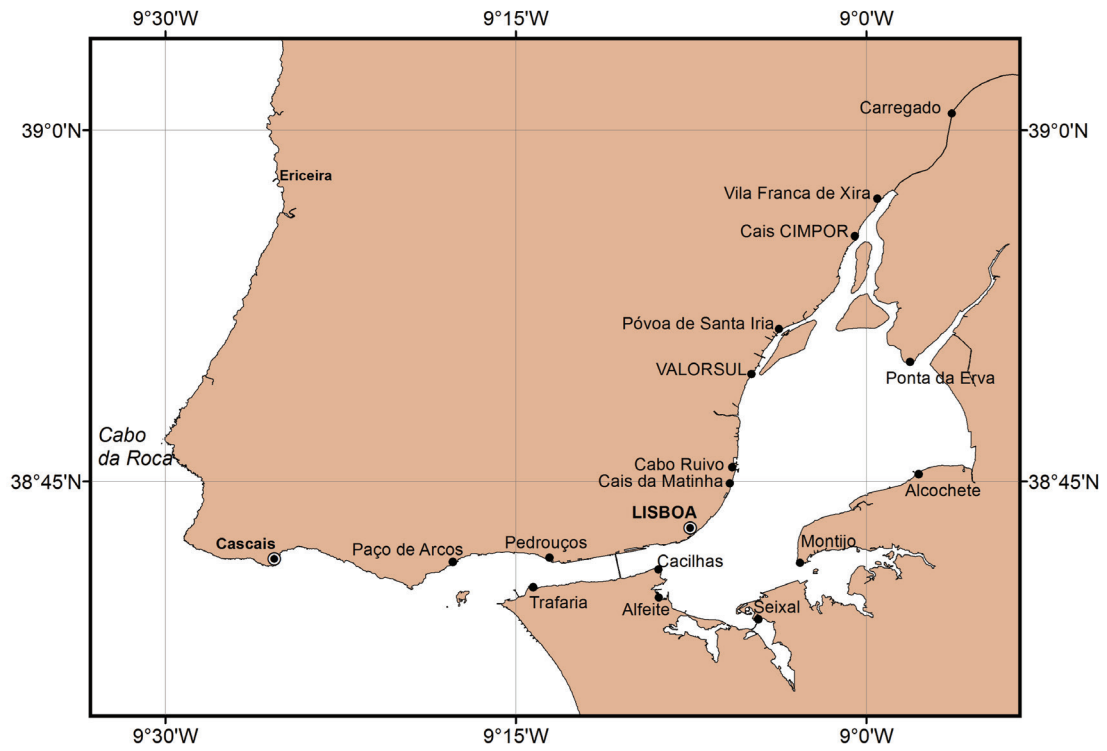
Horas do Fuso: 0 (TU)

Ano: 2025

| OUTUBRO | | | | NOVEMBRO | | | | DEZEMBRO | | | | | | | | | |
|-----------|-------|--------|-----------|----------|--------|-----------|--------|----------|-----------|-------|--------|-----------|-------|-----|-----------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 03:01 | 1.7 | 17 | 05:42 | 1.2 | 01 | 04:46 | 1.3 | 17 | 00:29 | 3.0 | 01 | 04:54 | 1.1 | 17 | 00:37 | 2.9 |
| | 09:30 | 2.5 | | 11:56 | 3.1 | | 10:57 | 3.0 | | 06:32 | 1.1 | | 11:07 | 3.1 | | 06:47 | 1.2 |
| | 16:16 | 1.5 | SEX | 18:17 | 1.0 | SÁB | 17:20 | 1.0 | SEG | 12:44 | 3.0 | SEG | 17:25 | 0.9 | QUA | 12:56 | 2.8 |
| | 22:31 | 2.4 | | | | | 23:34 | 2.9 | | 18:51 | 1.0 | | 23:42 | 3.1 | | 18:58 | 1.1 |
| 02 | 04:34 | 1.6 | 18 | 00:25 | 3.0 | 02 | 05:35 | 1.1 | 18 | 01:03 | 3.1 | 02 | 05:47 | 0.9 | 18 | 01:15 | 3.0 |
| | 10:48 | 2.7 | | 06:24 | 1.1 | | 11:45 | 3.2 | | 07:07 | 1.0 | | 12:00 | 3.3 | | 07:26 | 1.1 |
| | 17:19 | 1.3 | SÁB | 12:37 | 3.2 | DOM | 18:03 | 0.8 | TER | 13:18 | 3.1 | TER | 18:14 | 0.8 | QUI | 13:34 | 2.9 |
| | 23:31 | 2.6 | | 18:52 | 0.9 | | | | | 19:22 | 0.9 | | | | | 19:34 | 1.1 |
| 03 | 05:30 | 1.4 | 19 | 01:00 | 3.1 | 03 | 00:16 | 3.2 | 19 | 01:36 | 3.2 | 03 | 00:29 | 3.3 | 19 | 01:50 | 3.1 |
| | 11:40 | 2.9 | | 06:59 | 0.9 | | 06:18 | 0.9 | | 07:41 | 1.0 | | 06:38 | 0.8 | | 08:02 | 1.0 |
| | 18:03 | 1.1 | DOM | 13:13 | 3.3 | SEG | 12:30 | 3.4 | QUA | 13:51 | 3.1 | QUA | 12:51 | 3.4 | SEX | 14:10 | 2.9 |
| | | | | 19:23 | 0.8 | | 18:44 | 0.6 | | 19:53 | 0.9 | | 19:01 | 0.7 | | 20:08 | 1.0 |
| 04 | 00:13 | 2.9 | 20 | 01:32 | 3.2 | 04 | 00:57 | 3.4 | 20 | 02:07 | 3.2 | 04 | 01:16 | 3.5 | 20 | 02:24 | 3.2 |
| | 06:13 | 1.1 | | 07:32 | 0.9 | | 07:01 | 0.6 | | 08:13 | 0.9 | | 07:27 | 0.6 | | 08:37 | 1.0 |
| | 12:23 | 3.2 | SEG | 13:46 | 3.3 | TER | 13:14 | 3.6 | QUI | 14:24 | 3.1 | QUI | 13:42 | 3.5 | SÁB | 14:45 | 2.9 |
| | 18:40 | 0.8 | | 19:51 | 0.8 | | 19:24 | 0.5 | ● | 20:23 | 0.9 | ○ | 19:47 | 0.6 | ● | 20:41 | 1.0 |
| 05 | 00:51 | 3.1 | 21 | 02:02 | 3.3 | 05 | 01:38 | 3.5 | 21 | 02:38 | 3.2 | 05 | 02:03 | 3.6 | 21 | 02:58 | 3.2 |
| | 06:51 | 0.9 | | 08:02 | 0.8 | | 07:43 | 0.5 | | 08:46 | 0.9 | | 08:17 | 0.5 | | 09:12 | 1.0 |
| | 13:02 | 3.4 | TER | 14:16 | 3.3 | QUA | 13:58 | 3.7 | SEX | 14:56 | 3.0 | SEX | 14:32 | 3.5 | DOM | 15:20 | 2.9 |
| | 19:17 | 0.6 | ● | 20:19 | 0.8 | ○ | 20:05 | 0.4 | | 20:53 | 1.0 | | 20:34 | 0.6 | | 21:15 | 1.0 |
| 06 | 01:28 | 3.4 | 22 | 02:32 | 3.3 | 06 | 02:20 | 3.6 | 22 | 03:10 | 3.2 | 06 | 02:51 | 3.6 | 22 | 03:33 | 3.2 |
| | 07:29 | 0.6 | | 08:33 | 0.8 | | 08:27 | 0.4 | | 09:20 | 1.0 | | 09:07 | 0.5 | | 09:48 | 0.9 |
| | 13:42 | 3.6 | QUA | 14:46 | 3.2 | QUI | 14:43 | 3.6 | SÁB | 15:30 | 2.9 | SÁB | 15:23 | 3.4 | SEG | 15:56 | 2.9 |
| | 19:53 | 0.4 | | 20:47 | 0.8 | | 20:48 | 0.5 | | 21:25 | 1.0 | | 21:21 | 0.7 | | 21:51 | 1.0 |
| 07 | 02:05 | 3.5 | 23 | 03:01 | 3.3 | 07 | 03:03 | 3.6 | 23 | 03:44 | 3.1 | 07 | 03:41 | 3.6 | 23 | 04:10 | 3.2 |
| | 08:07 | 0.5 | | 09:03 | 0.9 | | 09:14 | 0.4 | | 09:56 | 1.0 | | 09:59 | 0.6 | | 10:26 | 1.0 |
| | 14:22 | 3.7 | QUI | 15:16 | 3.1 | SEX | 15:31 | 3.5 | DOM | 16:05 | 2.9 | DOM | 16:14 | 3.3 | TER | 16:35 | 2.9 |
| | 20:31 | 0.3 | | 21:15 | 0.9 | | 21:32 | 0.6 | | 21:59 | 1.1 | | 22:09 | 0.8 | | 22:29 | 1.1 |
| 08 | 02:44 | 3.6 | 24 | 03:30 | 3.2 | 08 | 03:50 | 3.5 | 24 | 04:20 | 3.1 | 08 | 04:31 | 3.5 | 24 | 04:50 | 3.2 |
| | 08:47 | 0.4 | | 09:35 | 0.9 | | 10:03 | 0.6 | | 10:34 | 1.1 | | 10:52 | 0.7 | | 11:06 | 1.0 |
| | 15:03 | 3.8 | SEX | 15:47 | 3.0 | SÁB | 16:21 | 3.3 | SEG | 16:44 | 2.8 | SEG | 17:07 | 3.1 | QUA | 17:16 | 2.9 |
| | 21:10 | 0.4 | | 21:44 | 1.0 | | 22:18 | 0.8 | | 22:37 | 1.2 | | 22:59 | 1.0 | | 23:11 | 1.1 |
| 09 | 03:24 | 3.6 | 25 | 04:01 | 3.1 | 09 | 04:40 | 3.4 | 25 | 05:01 | 3.0 | 09 | 05:24 | 3.3 | 25 | 05:33 | 3.1 |
| | 09:29 | 0.4 | | 10:08 | 1.0 | | 10:57 | 0.7 | | 11:19 | 1.2 | | 11:48 | 0.9 | | 11:51 | 1.1 |
| | 15:47 | 3.7 | SÁB | 16:19 | 2.9 | DOM | 17:16 | 3.1 | TER | 17:29 | 2.7 | TER | 18:01 | 2.9 | QUI | 18:03 | 2.8 |
| | 21:51 | 0.5 | | 22:15 | 1.1 | | 23:10 | 1.1 | | 23:22 | 1.3 | | 23:53 | 1.1 | | 23:59 | 1.2 |
| 10 | 04:06 | 3.5 | 26 | 04:35 | 3.0 | 10 | 05:36 | 3.2 | 26 | 05:49 | 2.9 | 10 | 06:20 | 3.2 | 26 | 06:22 | 3.0 |
| | 10:13 | 0.5 | | 10:45 | 1.2 | | 12:00 | 1.0 | | 12:11 | 1.3 | | 12:47 | 1.0 | | 12:40 | 1.1 |
| | 16:33 | 3.4 | DOM | 16:55 | 2.7 | SEG | 18:18 | 2.8 | QUA | 18:24 | 2.6 | QUA | 18:59 | 2.8 | SEX | 18:56 | 2.8 |
| | 22:34 | 0.7 | | 22:50 | 1.3 | | | | | | | | | | | | |
| 11 | 04:52 | 3.4 | 27 | 05:14 | 2.8 | 11 | 00:11 | 1.3 | 27 | 00:19 | 1.4 | 11 | 00:52 | 1.3 | 27 | 00:53 | 1.3 |
| | 11:03 | 0.8 | | 11:28 | 1.3 | | 06:40 | 3.0 | | 06:48 | 2.8 | | 07:20 | 3.0 | | 07:16 | 3.0 |
| | 17:24 | 3.2 | SEG | 17:40 | 2.6 | TER | 13:14 | 1.2 | QUI | 13:15 | 1.3 | QUI | 13:49 | 1.2 | SÁB | 13:37 | 1.2 |
| | 23:22 | 1.0 | | 23:33 | 1.5 | | 19:31 | 2.7 | | 19:32 | 2.5 | ((| 20:03 | 2.6 |)) | 19:57 | 2.7 |
| 12 | 05:45 | 3.1 | 28 | 06:04 | 2.7 | 12 | 01:27 | 1.4 | 28 | 01:30 | 1.5 | 12 | 01:57 | 1.4 | 28 | 01:56 | 1.3 |
| | 12:03 | 1.0 | | 12:27 | 1.5 | | 07:57 | 2.9 | | 07:55 | 2.8 | | 08:25 | 2.9 | | 08:18 | 2.9 |
| | 18:26 | 2.9 | TER | 18:42 | 2.4 | QUA | 14:38 | 1.2 | SEX | 14:26 | 1.3 | SEX | 14:55 | 1.3 | DOM | 14:40 | 1.2 |
| | | | | | | ((| 20:54 | 2.6 |)) | 20:46 | 2.6 | | 21:09 | 2.6 | | 21:03 | 2.8 |
| 13 | 00:21 | 1.3 | 29 | 00:37 | 1.6 | 13 | 02:52 | 1.5 | 29 | 02:47 | 1.4 | 13 | 03:08 | 1.4 | 29 | 03:06 | 1.3 |
| | 06:51 | 2.9 | | 07:14 | 2.6 | | 09:16 | 2.9 | | 09:05 | 2.8 | | 09:31 | 2.8 | | 09:25 | 2.9 |
| | 13:23 | 1.2 | QUA | 13:51 | 1.5 | QUI | 15:55 | 1.2 | SÁB | 15:34 | 1.2 | SÁB | 15:57 | 1.3 | SEG | 15:46 | 1.1 |
| | ((| 19:46 |)) | 20:10 | 2.4 | | 22:08 | 2.6 | | 21:54 | 2.7 | | 22:13 | 2.6 | | 22:09 | 2.9 |
| 14 | 01:46 | 1.5 | 30 | 02:13 | 1.6 | 14 | 04:08 | 1.4 | 30 | 03:55 | 1.3 | 14 | 04:16 | 1.4 | 30 | 04:17 | 1.2 |
| | 08:18 | 2.8 | | 08:41 | 2.6 | | 10:26 | 2.9 | | 10:10 | 3.0 | | 10:33 | 2.7 | | 10:34 | 3.0 |
| | 15:06 | 1.3 | QUI | 15:22 | 1.5 | SEX | 16:54 | 1.2 | DOM | 16:33 | 1.1 | DOM | 16:53 | 1.3 | TER | 16:52 | 1.1 |
| | 21:25 | 2.5 | | 21:41 | 2.5 | | 23:06 | 2.7 | | 22:51 | 2.9 | | 23:09 | 2.7 | | 23:12 | 3.0 |
| 15 | 03:29 | 1.5 | 31 | 03:44 | 1.5 | 15 | 05:06 | 1.3 | 15 | 05:15 | 1.4 | 15 | 05:15 | 1.4 | 31 | 05:24 | 1.1 |
| | 09:51 | 2.8 | | 09:58 | 2.7 | | 11:21 | 2.9 | | 11:27 | 2.8 | | 11:27 | 2.8 | | 11:39 | 3.1 |
| | 16:34 | 1.2 | SEX | 16:30 | 1.3 | SÁB | 17:40 | 1.1 | SEG | 17:40 | 1.3 | SEG | 17:40 | 1.3 | QUA | 17:52 | 1.0 |
| | 22:47 | 2.6 | | 22:46 | 2.7 | | 23:51 | 2.9 | | 23:56 | 2.8 | | 23:56 | 2.8 | | | |
| 16 | 04:48 | 1.4 | | | | 16 | 05:52 | 1.2 | 16 | 06:04 | 1.3 | 16 | 06:04 | 1.3 | | | |
| | 11:03 | 2.9 | | | | | 12:05 | 3.0 | | 12:14 | 2.8 | | 12:14 | 2.8 | | | |
| | 17:34 | 1.1 | | | | DOM | 18:18 | 1.1 | | 18:21 | 1.2 | | 18:21 | 1.2 | | | |
| | 23:43 | 2.8 | | | | | | | | | | | | | | | |

201.7

LISBOA



PORTO DE LISBOA

NOTAS

1. ANÁLISE HARMÓNICA:

— Efetuada a partir de um ano de observações maregráficas, de 1 de janeiro de 2018 a 5 de janeiro de 2019.

2. LOCALIZAÇÃO DO MARÉGRAFO:

— No Cais Comercial de Alcântara:
Latitude 38° 42,0' N; Longitude 9° 09,5' W – WGS84.

3. ALTURAS DE MARÉ:

— Referidas ao nível do zero hidrográfico.
— Nível médio: 2,20 m.

4. ZERO HIDROGRÁFICO:

— 2,08 m abaixo do nível médio adotado (Cascais, 1938).
— 5.654 m abaixo da marca IH-BH 06/2017, situada junto ao marégrafo.
— 5.337 m abaixo da marca CML R018, incrustada na soleira do portão na Av. 24 de Julho n. 168, Edifício do Ministério da Marinha, Direção das Construções Civis.
— 7,616 m abaixo da marca NPL situada na pilastra do lado direito na face Sul do pedestal da estátua de D. José.

5. ALTURAS HORÁRIAS:

— As alturas horárias previstas, das páginas 2 – 59 a 2 – 70, não devem ser utilizadas para o interior do estuário.

O seu cálculo foi efetuado com base nas constantes harmónicas do porto de Cascais.

Porto de Lisboa

Latitude 38° 42.00' N Longitude 9° 09.50' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JANEIRO | | | | FEVEREIRO | | | | MARÇO | | | | | | | | | | | | | | | |
|-----------|-------|--------|-----------|-----------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-------|-----------|-------|-------|-------|-------|-----|-------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | | | | | | | |
| 01 | 03:48 | 3.5 | 17 | 05:13 | 3.5 | 01 | 04:59 | 3.9 | 17 | 05:42 | 3.4 | 01 | 03:59 | 4.0 | 17 | 04:42 | 3.6 | | | | | | |
| | 09:49 | 0.7 | | 11:12 | 0.7 | | 10:57 | 0.4 | | 11:38 | 0.9 | | 09:56 | 0.3 | | 10:35 | 0.8 | | | | | | |
| | 16:13 | 3.3 | | SEX | 17:33 | | 3.2 | SÁB | | 17:23 | 3.6 | | SEG | 17:59 | | 3.2 | SÁB | 16:21 | 3.8 | SEG | 16:57 | 3.5 | |
| | 21:59 | 0.8 | | 23:16 | 0.9 | | 23:09 | 0.5 | | 23:48 | 1.0 | | 22:09 | 0.4 | | 22:47 | 0.8 | | | | | | |
| 02 | 04:30 | 3.6 | 18 | 05:45 | 3.4 | 02 | 05:41 | 3.8 | 18 | 06:13 | 3.2 | 02 | 04:39 | 4.1 | 18 | 05:10 | 3.5 | | | | | | |
| | 10:31 | 0.6 | | 11:46 | 0.8 | | 11:37 | 0.5 | | 12:09 | 1.1 | | 10:34 | 0.3 | | 11:02 | 0.9 | | | | | | |
| | QUI | 16:56 | | 3.3 | SÁB | | 18:06 | 3.1 | | DOM | 18:05 | | 3.5 | TER | | 17:01 | 3.8 | TER | 17:25 | 3.4 | | | |
| | 22:40 | 0.7 | | 23:51 | 1.0 | | 23:51 | 0.6 | | 23:51 | 0.6 | | 22:49 | 0.4 | | 23:17 | 1.0 | | | | | | |
| 03 | 05:13 | 3.6 | 19 | 06:18 | 3.3 | 03 | 06:24 | 3.7 | 19 | 00:23 | 1.2 | 03 | 05:20 | 4.0 | 19 | 05:40 | 3.3 | | | | | | |
| | 11:13 | 0.6 | | 12:20 | 1.0 | | 12:19 | 0.7 | | 06:47 | 3.0 | | 11:13 | 0.5 | | 11:30 | 1.1 | | | | | | |
| | SEX | 17:39 | | 3.3 | DOM | | 18:40 | 3.0 | | SEG | 18:49 | | 3.4 | QUA | | 12:43 | 1.3 | SEG | 17:41 | 3.7 | QUA | 17:56 | 3.2 |
| | 23:24 | 0.8 | | 23:24 | 0.8 | | 19:11 | 2.9 | | 19:11 | 2.9 | | 23:30 | 0.5 | | 23:49 | 1.2 | | | | | | |
| 04 | 05:57 | 3.6 | 20 | 00:27 | 1.1 | 04 | 00:36 | 0.8 | 20 | 01:05 | 1.4 | 04 | 06:03 | 3.8 | 20 | 06:13 | 3.1 | | | | | | |
| | 11:57 | 0.7 | | 06:54 | 3.1 | | 07:10 | 3.4 | | 07:30 | 2.8 | | 11:54 | 0.7 | | 12:00 | 1.3 | | | | | | |
| | SÁB | 18:25 | | 3.2 | SEG | | 12:58 | 1.1 | | TER | 13:05 | | 0.9 | QUI | | 13:28 | 1.5 | TER | 18:23 | 3.5 | QUI | 18:31 | 3.1 |
| | | | | | 19:20 | | 2.9 | 19:38 | | 3.2 | 20:02 | | 2.7 | | | | | | | | | | |
| 05 | 00:10 | 0.9 | 21 | 01:10 | 1.3 | 05 | 01:28 | 1.0 | 21 | 02:05 | 1.6 | 05 | 00:15 | 0.8 | 21 | 00:26 | 1.4 | | | | | | |
| | 06:44 | 3.5 | | 07:36 | 2.9 | | 08:05 | 3.2 | | 08:32 | 2.6 | | 06:48 | 3.5 | | 06:52 | 2.9 | | | | | | |
| | DOM | 12:45 | | 0.8 | TER | | 13:44 | 1.3 | | QUA | 14:01 | | 1.1 | SEX | | 14:40 | 1.7 | QUA | 12:38 | 1.0 | SEX | 12:39 | 1.5 |
| | 19:15 | 3.1 | | ((| 20:10 | | 2.7 |) | | 20:39 | 3.0 | | 21:18 | 2.7 | | 19:11 | 3.3 | 19:16 | 2.9 | | | | |
| 06 | 01:00 | 1.0 | 22 | 02:04 | 1.4 | 06 | 02:36 | 1.2 | 22 | 03:43 | 1.7 | 06 | 01:07 | 1.0 | 22 | 01:20 | 1.6 | | | | | | |
| | 07:36 | 3.3 | | 08:30 | 2.8 | | 09:14 | 3.0 | | 10:07 | 2.5 | | 07:43 | 3.2 | | 07:49 | 2.7 | | | | | | |
| | SEG | 13:38 | | 0.9 | QUA | | 14:44 | 1.4 | | QUI | 15:15 | | 1.3 | SÁB | | 16:21 | 1.7 | QUI | 13:33 | 1.3 | SÁB | 13:41 | 1.7 |
| |) | 20:12 | | 3.0 | 21:13 | | 2.7 | 21:56 | | 2.9 | 22:52 | | 2.7 |) | | 20:12 | 3.1 | ((| 20:27 | 2.7 | | | |
| 07 | 01:59 | 1.1 | 23 | 03:18 | 1.5 | 07 | 04:03 | 1.3 | 23 | 05:16 | 1.6 | 07 | 02:19 | 1.3 | 23 | 02:56 | 1.7 | | | | | | |
| | 08:35 | 3.2 | | 09:40 | 2.6 | | 10:40 | 2.9 | | 11:43 | 2.6 | | 08:58 | 2.9 | | 09:26 | 2.6 | | | | | | |
| | TER | 14:39 | | 1.0 | QUI | | 15:59 | 1.5 | | SEX | 16:41 | | 1.4 | DOM | | 17:39 | 1.5 | SEX | 14:53 | 1.5 | DOM | 15:35 | 1.8 |
| | 21:16 | 3.0 | | 22:28 | 2.7 | | 23:22 | 3.0 | | | | | | | | | 21:38 | 2.9 | 22:08 | 2.8 | | | |
| 08 | 03:08 | 1.2 | 24 | 04:39 | 1.5 | 08 | 05:32 | 1.3 | 24 | 00:09 | 2.9 | 08 | 03:58 | 1.4 | 24 | 04:40 | 1.6 | | | | | | |
| | 09:43 | 3.1 | | 11:00 | 2.6 | | 12:06 | 2.9 | | 06:22 | 1.4 | | 10:38 | 2.8 | | 11:13 | 2.7 | | | | | | |
| | QUA | 15:49 | | 1.1 | SEX | | 17:10 | 1.5 | | SÁB | 18:00 | | 1.3 | SEG | | 16:33 | 1.6 | SEG | 17:06 | 1.6 | | | |
| | 22:26 | 3.0 | | 23:39 | 2.8 | | | | | | | | 18:37 | 1.3 | | 23:15 | 3.0 | 23:35 | 3.0 | | | | |
| 09 | 04:24 | 1.2 | 25 | 05:48 | 1.4 | 09 | 00:37 | 3.1 | 25 | 01:05 | 3.2 | 09 | 05:35 | 1.4 | 25 | 05:51 | 1.3 | | | | | | |
| | 10:57 | 3.1 | | 12:11 | 2.7 | | 06:46 | 1.1 | | 07:12 | 1.1 | | 12:07 | 2.9 | | 12:21 | 3.0 | | | | | | |
| | QUI | 17:00 | | 1.1 | SÁB | | 18:09 | 1.4 | | DOM | 13:13 | | 3.1 | TER | | 13:37 | 3.1 | DOM | 17:57 | 1.5 | TER | 18:09 | 1.3 |
| | 23:36 | 3.1 | | | | | | 19:03 | | 1.1 | 19:24 | | 1.1 | | | | | | | | | | |
| 10 | 05:37 | 1.1 | 26 | 00:38 | 2.9 | 10 | 01:36 | 3.3 | 26 | 01:52 | 3.5 | 10 | 00:30 | 3.2 | 26 | 00:35 | 3.3 | | | | | | |
| | 12:08 | 3.1 | | 06:44 | 1.3 | | 07:43 | 0.9 | | 07:56 | 0.8 | | 06:44 | 1.2 | | 06:44 | 1.0 | | | | | | |
| | SEX | 18:06 | | 1.0 | DOM | | 13:07 | 2.9 | | SEG | 14:06 | | 3.2 | QUA | | 14:20 | 3.4 | SEG | 13:07 | 3.1 | QUA | 13:10 | 3.3 |
| | | | | | 18:58 | | 1.2 | 19:53 | | 1.0 | 20:08 | | 0.8 | 18:56 | | 1.3 | 18:58 | 1.0 | | | | | |
| 11 | 00:41 | 3.2 | 27 | 01:27 | 3.1 | 11 | 02:24 | 3.5 | 27 | 02:35 | 3.7 | 11 | 01:24 | 3.4 | 27 | 01:24 | 3.6 | | | | | | |
| | 06:43 | 1.0 | | 07:32 | 1.1 | | 08:28 | 0.8 | | 08:37 | 0.6 | | 07:32 | 1.0 | | 07:28 | 0.7 | | | | | | |
| | SÁB | 13:13 | | 3.2 | SEG | | 13:55 | 3.0 | | TER | 14:49 | | 3.3 | QUI | | 15:01 | 3.6 | TER | 13:52 | 3.3 | QUI | 13:54 | 3.5 |
| | 19:05 | 1.0 | | 19:43 | 1.0 | | 20:35 | 0.9 | | 20:35 | 0.9 | | 20:49 | 0.6 | | 19:40 | 1.1 | 19:43 | 0.8 | | | | |
| 12 | 01:39 | 3.4 | 28 | 02:12 | 3.3 | 12 | 03:05 | 3.6 | 28 | 03:17 | 3.9 | 12 | 02:07 | 3.5 | 28 | 02:10 | 3.8 | | | | | | |
| | 07:41 | 0.8 | | 08:15 | 0.9 | | 09:06 | 0.7 | | 09:17 | 0.4 | | 08:10 | 0.9 | | 08:10 | 0.5 | | | | | | |
| | DOM | 14:09 | | 3.3 | TER | | 14:38 | 3.2 | | QUA | 15:27 | | 3.4 | QUA | | 14:30 | 3.4 | SEX | 14:36 | 3.8 | | | |
| | 19:57 | 0.9 | | 20:25 | 0.9 | | ○ | 21:12 | | 0.8 | ● | | 21:29 | 0.4 | | 20:16 | 0.9 | 20:25 | 0.5 | | | | |
| 13 | 02:30 | 3.5 | 29 | 02:55 | 3.5 | 13 | 03:42 | 3.7 | 29 | 02:44 | 3.6 | 13 | 02:44 | 3.6 | 29 | 02:53 | 4.0 | | | | | | |
| | 08:33 | 0.7 | | 08:57 | 0.7 | | 09:40 | 0.6 | | 08:42 | 0.8 | | 08:51 | 0.4 | | | | | | | | | |
| | SEG | 14:58 | | 3.3 | QUA | | 15:20 | 3.4 | | QUI | 16:01 | | 3.4 | QUI | | 15:03 | 3.5 | SÁB | 15:17 | 3.9 | | | |
| | ○ | 20:44 | | 0.8 | ● | | 21:07 | 0.7 | | 21:45 | 0.7 | | 20:48 | 0.8 | | ● | 21:06 | 0.4 | | | | | |
| 14 | 03:17 | 3.6 | 30 | 03:36 | 3.7 | 14 | 04:15 | 3.7 | 30 | 03:16 | 3.7 | 14 | 03:16 | 3.7 | 30 | 03:35 | 4.1 | | | | | | |
| | 09:19 | 0.6 | | 09:37 | 0.5 | | 10:11 | 0.6 | | 09:12 | 0.7 | | 09:30 | 0.3 | | | | | | | | | |
| | TER | 15:42 | | 3.4 | QUI | | 16:01 | 3.5 | | SEX | 16:32 | | 3.4 | 15:33 | | 3.6 | DOM | 15:57 | 4.0 | | | | |
| | 21:27 | 0.8 | | 21:48 | 0.6 | | 22:16 | 0.7 | | 21:19 | 0.7 | | 21:47 | 0.3 | | | | | | | | | |
| 15 | 03:59 | 3.6 | 31 | 04:18 | 3.8 | 15 | 04:45 | 3.6 | 31 | 03:46 | 3.7 | 15 | 03:46 | 3.7 | 31 | 04:17 | 4.1 | | | | | | |
| | 10:00 | 0.6 | | 10:17 | 0.4 | | 10:41 | 0.7 | | 09:40 | 0.7 | | 10:10 | 0.4 | | | | | | | | | |
| | QUA | 16:23 | | 3.3 | SEX | | 16:42 | 3.6 | | SÁB | 17:01 | | 3.4 | SÁB | | 16:01 | 3.6 | SEG | 16:38 | 3.9 | | | |
| | 22:06 | 0.8 | | 22:28 | 0.5 | | 22:47 | 0.8 | | 21:48 | 0.7 | | 22:29 | 0.4 | | | | | | | | | |
| 16 | 04:37 | 3.6 | 16 | 05:13 | 3.5 | 16 | 05:13 | 3.5 | 16 | 04:14 | 3.7 | 16 | 04:14 | 3.7 | 16 | 04:17 | 4.1 | | | | | | |
| | 10:38 | 0.7 | | 11:09 | 0.8 | | 11:09 | 0.8 | | 10:08 | 0.7 | | 10:08 | 0.7 | | | | | | | | | |
| | QUI | 16:59 | | 3.3 | DOM | | 17:29 | 3.3 | | DOM | 16:29 | | 3.5 | 16:29 | | 3.5 | | | | | | | |
| | 22:42 | 0.8 | | 23:17 | 0.9 | | 23:17 | 0.9 | | 22:17 | 0.8 | | 22:17 | 0.8 | | | | | | | | | |

Porto de Lisboa

Latitude 38° 42.00' N Longitude 9° 09.50' W

Horas do Fuso: 0 (TU)

Ano: 2025

| ABRIL | | | | MAIO | | | | JUNHO | | | | | | | | | |
|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 05:00 10:50 TER 17:19 23:12 | 4.0 0.5 3.8 0.5 | 17 | 05:15 11:00 QUI 17:30 23:26 | 3.2 1.1 3.3 1.2 | 01 | 05:30 11:15 QUI 17:48 23:51 | 3.5 0.9 3.6 0.8 | 17 | 05:38 11:21 SÁB 17:55 23:59 | 3.0 1.2 3.2 1.2 | 01 | 00:37 07:04 DOM 12:45 19:22 | 1.0 3.0 1.2 3.2 | 17 | 00:40 07:09 TER 12:54 19:28 | 1.0 3.0 1.2 3.2 |
| 02 | 05:44 11:31 QUA 18:03 23:59 | 3.7 0.8 3.6 0.8 | 18 | 05:50 11:33 SEX 18:06 | 3.0 1.3 3.1 | 02 | 06:21 12:05 SEX 18:41 | 3.3 1.1 3.4 | 18 | 06:24 12:08 DOM 18:44 | 2.9 1.3 3.1 | 02 | 01:34 08:04 SEG 13:44 20:22 | 1.1 2.8 1.4 3.0 | 18 | 01:35 08:08 QUA 13:54 20:28 | 1.0 2.9 1.2 3.2 |
| 03 | 06:32 12:18 QUI 18:53 | 3.4 1.1 3.3 | 19 | 00:07 06:31 SÁB 12:15 18:53 | 1.3 2.9 1.5 3.0 | 03 | 00:50 07:22 SÁB 13:05 19:45 | 1.1 3.0 1.4 3.1 | 19 | 00:55 07:23 SEG 13:09 19:46 | 1.3 2.8 1.4 3.0 | 03 | 02:36 09:09 TER 14:50 21:26 | 1.3 2.8 1.5 2.9 | 19 | 02:37 09:13 QUI 15:02 21:33 | 1.0 3.0 1.2 3.2 |
| 04 | 00:56 07:30 SEX 13:17 19:57 | 1.1 3.1 1.4 3.1 | 20 | 01:03 07:31 DOM 13:19 20:02 | 1.5 2.7 1.6 2.9 | 04 | 02:03 08:37 DOM 14:21 21:03 | 1.3 2.8 1.6 3.0 | 20 | 02:03 08:37 TER 14:26 21:00 | 1.3 2.8 1.5 3.0 | 04 | 03:40 10:13 QUA 15:57 22:29 | 1.3 2.8 1.5 2.9 | 20 | 03:43 10:19 SEX 16:11 22:40 | 1.0 3.0 1.1 3.2 |
| 05 | 02:14 08:52 SÁB 14:41 21:27 | 1.4 2.8 1.6 3.0 | 21 | 02:28 09:02 SEG 14:58 21:32 | 1.5 2.7 1.7 2.9 | 05 | 03:24 10:01 SEG 15:44 22:22 | 1.4 2.8 1.6 3.0 | 21 | 03:18 09:55 QUA 15:44 22:13 | 1.2 2.9 1.4 3.1 | 05 | 04:39 11:11 QUI 16:58 23:26 | 1.3 2.9 1.4 3.0 | 21 | 04:48 11:22 SÁB 17:18 23:46 | 1.0 3.2 1.0 3.3 |
| 06 | 03:53 10:31 DOM 16:20 22:59 | 1.5 2.8 1.6 3.0 | 22 | 04:00 10:36 TER 16:27 22:55 | 1.5 2.8 1.5 3.1 | 06 | 04:40 11:12 TER 16:55 23:27 | 1.3 2.9 1.5 3.1 | 22 | 04:27 11:01 QUI 16:51 23:18 | 1.1 3.1 1.2 3.3 | 06 | 05:31 12:00 SEX 17:51 | 1.2 3.0 1.3 | 22 | 05:48 12:21 DOM 18:19 | 0.9 3.3 0.9 |
| 07 | 05:21 11:50 SEG 17:38 | 1.4 2.9 1.5 | 23 | 05:11 11:44 QUA 17:32 23:58 | 1.2 3.0 1.3 3.3 | 07 | 05:38 12:05 QUA 17:51 | 1.3 3.0 1.4 | 23 | 05:27 11:58 SEX 17:50 | 0.9 3.3 1.0 | 07 | 00:16 06:16 SÁB 12:43 18:37 | 3.0 1.1 3.1 1.2 | 23 | 00:48 06:45 SEG 13:17 19:17 | 3.3 0.8 3.5 0.7 |
| 08 | 00:08 06:22 TER 12:44 18:32 | 3.2 1.2 3.1 1.3 | 24 | 06:07 12:36 QUI 18:26 | 1.0 3.3 1.0 | 08 | 00:18 06:23 QUI 12:47 18:35 | 3.2 1.1 3.2 1.2 | 24 | 00:16 06:20 SÁB 12:50 18:43 | 3.5 0.7 3.5 0.8 | 08 | 01:00 06:56 DOM 13:23 19:18 | 3.1 1.1 3.2 1.1 | 24 | 01:46 07:38 TER 14:11 20:12 | 3.4 0.7 3.6 0.6 |
| 09 | 00:58 07:05 QUA 13:25 19:13 | 3.3 1.1 3.3 1.1 | 25 | 00:51 06:55 SEX 13:23 19:13 | 3.6 0.7 3.6 0.7 | 09 | 01:00 07:00 SEX 13:24 19:13 | 3.3 1.0 3.3 1.1 | 25 | 01:10 07:09 DOM 13:39 19:33 | 3.6 0.6 3.6 0.6 | 09 | 01:40 07:33 SEG 14:00 19:57 | 3.1 1.0 3.3 1.0 | 25 | 02:40 08:29 QUA 15:02 21:04 | 3.5 0.7 3.7 0.6 |
| 10 | 01:39 07:39 QUI 14:00 19:47 | 3.5 0.9 3.4 1.0 | 26 | 01:40 07:40 SÁB 14:07 19:58 | 3.8 0.5 3.8 0.5 | 10 | 01:37 07:33 SÁB 13:57 19:48 | 3.3 0.9 3.4 1.0 | 26 | 02:02 07:56 SEG 14:26 20:23 | 3.7 0.5 3.7 0.5 | 10 | 02:19 08:08 TER 14:36 20:34 | 3.1 1.0 3.3 0.9 | 26 | 03:32 09:18 QUI 15:51 21:54 | 3.5 0.7 3.7 0.6 |
| 11 | 02:13 08:10 SEX 14:32 20:19 | 3.5 0.8 3.5 0.9 | 27 | 02:26 08:22 DOM 14:50 20:42 | 3.9 0.4 3.9 0.4 | 11 | 02:12 08:05 DOM 14:30 20:22 | 3.4 0.9 3.5 0.9 | 27 | 02:52 08:43 TER 15:14 21:12 | 3.7 0.5 3.8 0.5 | 11 | 02:56 08:43 QUA 15:12 21:11 | 3.2 1.0 3.4 0.9 | 27 | 04:20 10:04 SEX 16:38 22:41 | 3.4 0.7 3.7 0.6 |
| 12 | 02:45 08:39 SÁB 15:02 20:50 | 3.6 0.8 3.6 0.8 | 28 | 03:11 09:05 SEG 15:33 21:27 | 4.0 0.4 3.9 0.4 | 12 | 02:45 08:36 SEG 15:01 20:55 | 3.4 0.9 3.5 0.9 | 28 | 03:41 09:29 QUA 16:01 22:01 | 3.7 0.6 3.8 0.5 | 12 | 03:33 09:18 QUI 15:48 21:49 | 3.2 1.0 3.4 0.9 | 28 | 05:06 10:49 SÁB 17:23 23:26 | 3.3 0.8 3.6 0.7 |
| 13 | 03:15 09:07 DOM 15:30 21:20 | 3.6 0.8 3.6 0.8 | 29 | 03:57 09:47 TER 16:17 22:12 | 3.9 0.5 3.9 0.4 | 13 | 03:18 09:07 TER 15:33 21:28 | 3.4 0.9 3.5 0.9 | 29 | 04:30 10:16 QUI 16:49 22:51 | 3.5 0.7 3.7 0.6 | 13 | 04:11 09:55 SEX 16:26 22:27 | 3.1 1.0 3.4 0.9 | 29 | 05:50 11:32 DOM 18:05 | 3.2 0.9 3.4 |
| 14 | 03:45 09:36 SEG 15:59 21:51 | 3.6 0.8 3.6 0.8 | 30 | 04:42 10:30 QUA 17:01 22:59 | 3.8 0.6 3.8 0.6 | 14 | 03:50 09:37 QUA 16:05 22:01 | 3.3 0.9 3.4 0.9 | 30 | 05:20 11:03 SEX 17:37 23:43 | 3.4 0.9 3.6 0.8 | 14 | 04:50 10:33 SÁB 17:05 23:08 | 3.1 1.0 3.4 0.9 | 30 | 00:09 06:33 SEG 12:14 18:47 | 0.8 3.1 1.1 3.3 |
| 15 | 04:14 10:03 TER 16:28 22:21 | 3.5 0.9 3.5 0.9 | | | | 15 | 04:24 10:09 QUI 16:38 22:36 | 3.2 1.0 3.4 1.0 | 31 | 06:10 11:52 SÁB 18:28 | 3.2 1.1 3.4 | 15 | 05:32 11:15 DOM 17:48 23:52 | 3.1 1.0 3.3 0.9 | | | |
| 16 | 04:44 10:31 QUA 16:58 22:52 | 3.4 1.0 3.4 1.0 | | | | 16 | 04:59 10:42 SEX 17:14 23:15 | 3.1 1.1 3.3 1.1 | | | | 16 | 06:18 12:01 SEG 18:35 | 3.0 1.1 3.3 | | | |

Porto de Lisboa

Latitude 38° 42.00' N Longitude 9° 09.50' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JULHO | | | | AGOSTO | | | | SETEMBRO | | | | | | | | | |
|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 00:52 07:17 TER 12:59 19:32 | 1.0 2.9 1.2 3.1 | 17 | 01:04 07:37 QUI 13:23 19:57 | 0.9 3.1 1.0 3.3 | 01 | 01:25 07:52 SEX 13:46 20:10 | 1.3 2.8 1.4 2.8 | 17 | 02:32 09:14 DOM 15:20 21:56 | 1.3 3.0 1.3 2.9 | 01 | 02:24 09:03 SEG 15:34 21:54 | 1.8 2.7 1.8 2.6 | 17 | 05:23 11:58 QUA 18:14 | 1.5 3.2 1.2 |
| 02 | 01:38 08:06 QUA 13:50 20:21 | 1.2 2.8 1.3 3.0 | 18 | 01:58 08:34 SEX 14:25 20:59 | 1.0 3.1 1.1 3.1 | 02 | 02:20 08:51 SÁB 14:56 21:16 | 1.5 2.7 1.6 2.7 | 18 | 03:58 10:40 SEG 16:53 23:27 | 1.4 3.0 1.3 2.9 | 02 | 04:10 10:40 TER 17:09 23:33 | 1.8 2.8 1.7 2.7 | 18 | 00:38 06:27 QUI 12:56 19:06 | 3.2 1.3 3.5 1.0 |
| 03 | 02:31 09:02 QUI 14:51 21:19 | 1.3 2.8 1.4 2.8 | 19 | 03:03 09:41 SÁB 15:39 22:11 | 1.1 3.0 1.2 3.1 | 03 | 03:35 10:06 DOM 16:20 22:39 | 1.6 2.7 1.6 2.6 | 19 | 05:22 12:01 TER 18:13 | 1.4 3.2 1.2 | 03 | 05:28 11:56 QUA 18:12 | 1.7 2.9 1.5 | 19 | 01:26 07:14 SEX 13:42 19:47 | 3.3 1.1 3.6 0.9 |
| 04 | 03:32 10:04 SEX 15:59 22:24 | 1.4 2.7 1.5 2.8 | 20 | 04:16 10:53 DOM 16:56 23:27 | 1.2 3.1 1.2 3.1 | 04 | 04:51 11:21 SEG 17:35 23:57 | 1.6 2.8 1.5 2.7 | 20 | 00:41 06:31 QUA 13:06 19:15 | 3.1 1.2 3.4 1.0 | 04 | 00:36 06:23 QUI 12:50 18:59 | 2.9 1.4 3.2 1.2 | 20 | 02:07 07:53 SÁB 14:21 20:21 | 3.5 0.9 3.8 0.8 |
| 05 | 04:35 11:06 SÁB 17:05 23:28 | 1.4 2.8 1.4 2.8 | 21 | 05:27 12:04 SEG 18:09 | 1.1 3.2 1.0 | 05 | 05:54 12:24 TER 18:34 | 1.5 2.9 1.4 | 21 | 01:39 07:26 QUI 13:58 20:04 | 3.3 1.0 3.6 0.8 | 05 | 01:21 07:07 SEX 13:34 19:39 | 3.1 1.2 3.5 1.0 | 21 | 02:42 08:28 DOM 14:56 20:53 | 3.6 0.8 3.8 0.7 |
| 06 | 05:33 12:02 DOM 18:03 | 1.3 2.9 1.3 | 22 | 00:39 06:32 TER 13:08 19:13 | 3.1 1.0 3.4 0.9 | 06 | 00:56 06:45 QUA 13:14 19:21 | 2.8 1.3 3.1 1.2 | 22 | 02:26 08:12 SEX 14:43 20:45 | 3.4 0.9 3.7 0.7 | 06 | 02:01 07:48 SÁB 14:14 20:17 | 3.4 1.0 3.7 0.7 | 22 | 03:14 09:00 SEG 15:28 21:22 | 3.7 0.8 3.8 0.7 |
| 07 | 00:25 06:22 SEG 12:51 18:53 | 2.8 1.3 3.0 1.2 | 23 | 01:41 07:30 QUA 14:05 20:09 | 3.3 0.9 3.5 0.7 | 07 | 01:42 07:29 QUI 13:57 20:03 | 3.0 1.2 3.3 1.0 | 23 | 03:07 08:51 SÁB 15:22 21:21 | 3.5 0.8 3.8 0.6 | 07 | 02:40 08:27 DOM 14:54 20:54 | 3.6 0.7 3.9 0.5 | 23 | 03:44 09:31 TER 15:58 21:51 | 3.7 0.8 3.7 0.8 |
| 08 | 01:15 07:06 TER 13:35 19:38 | 2.9 1.2 3.1 1.1 | 24 | 02:35 08:21 QUI 14:55 20:58 | 3.4 0.8 3.7 0.6 | 08 | 02:24 08:10 SEX 14:38 20:41 | 3.2 1.0 3.5 0.8 | 24 | 03:43 09:27 DOM 15:57 21:54 | 3.6 0.7 3.8 0.6 | 08 | 03:18 09:06 SEG 15:34 21:31 | 3.8 0.6 4.0 0.4 | 24 | 04:13 10:01 QUA 16:26 22:18 | 3.6 0.8 3.6 0.9 |
| 09 | 01:59 07:47 QUA 14:16 20:19 | 3.0 1.1 3.3 1.0 | 25 | 03:23 09:07 SEX 15:40 21:42 | 3.4 0.8 3.7 0.6 | 09 | 03:03 08:49 SÁB 15:18 21:19 | 3.4 0.8 3.7 0.6 | 25 | 04:16 10:00 SEG 16:30 22:25 | 3.6 0.7 3.7 0.7 | 09 | 03:57 09:44 TER 16:14 22:09 | 3.8 0.5 4.1 0.4 | 25 | 04:41 10:31 QUI 16:55 22:46 | 3.5 0.9 3.5 1.0 |
| 10 | 02:40 08:26 QUI 14:56 20:58 | 3.1 1.0 3.4 0.9 | 26 | 04:06 09:49 SÁB 16:22 22:22 | 3.4 0.7 3.7 0.6 | 10 | 03:42 09:28 DOM 15:57 21:56 | 3.5 0.7 3.8 0.5 | 26 | 04:47 10:32 TER 17:00 22:55 | 3.5 0.8 3.6 0.8 | 10 | 04:35 10:23 QUA 16:54 22:47 | 3.9 0.5 4.0 0.5 | 26 | 05:10 11:01 SEX 17:24 23:14 | 3.4 1.1 3.3 1.2 |
| 11 | 03:20 09:05 SEX 15:35 21:37 | 3.2 0.9 3.5 0.8 | 27 | 04:45 10:27 DOM 16:59 22:58 | 3.4 0.8 3.7 0.7 | 11 | 04:21 10:06 SEG 16:37 22:34 | 3.6 0.6 3.9 0.5 | 27 | 05:16 11:03 QUA 17:29 23:24 | 3.4 0.9 3.5 0.9 | 11 | 05:15 11:03 QUI 17:35 23:26 | 3.8 0.6 3.8 0.7 | 27 | 05:40 11:34 SÁB 17:57 23:45 | 3.3 1.3 3.1 1.4 |
| 12 | 03:59 09:44 SÁB 16:14 22:16 | 3.2 0.8 3.6 0.7 | 28 | 05:21 11:03 SEG 17:34 23:33 | 3.3 0.8 3.6 0.8 | 12 | 05:00 10:45 TER 17:16 23:12 | 3.6 0.6 3.8 0.5 | 28 | 05:46 11:34 QUI 17:59 23:55 | 3.3 1.1 3.3 1.1 | 12 | 05:56 11:46 SEX 18:20 | 3.6 0.8 3.6 | 28 | 06:15 12:12 DOM 18:36 | 3.1 1.5 2.9 |
| 13 | 04:39 10:23 DOM 16:54 22:55 | 3.3 0.8 3.6 0.7 | 29 | 05:55 11:38 TER 18:08 | 3.2 0.9 3.4 | 13 | 05:40 11:25 QUA 17:57 23:52 | 3.6 0.7 3.7 0.7 | 29 | 06:18 12:09 SEX 18:33 | 3.2 1.3 3.1 | 13 | 00:09 06:43 SÁB 12:37 19:12 | 1.0 3.4 1.0 3.3 | 29 | 00:23 07:01 SEG 13:06 19:32 | 1.6 2.9 1.7 2.7 |
| 14 | 05:20 11:04 SEG 17:36 23:35 | 3.3 0.8 3.6 0.7 | 30 | 00:07 06:29 QUA 12:14 18:42 | 0.9 3.1 1.1 3.2 | 14 | 06:21 12:07 QUI 18:41 | 3.5 0.8 3.6 | 30 | 00:28 06:56 SÁB 12:51 19:15 | 1.3 3.0 1.5 2.9 | 14 | 01:01 07:40 DOM 13:43 20:21 | 1.3 3.2 1.3 3.0 | 30 | 01:24 08:12 TER 14:47 21:13 | 1.8 2.8 1.8 2.6 |
| 15 | 06:02 11:46 TER 18:19 | 3.3 0.8 3.5 | 31 | 00:43 07:07 QUI 12:55 19:21 | 1.1 3.0 1.3 3.0 | 15 | 00:35 07:07 SEX 12:56 19:31 | 0.9 3.3 1.0 3.3 | 31 | 01:12 07:47 DOM 13:52 20:15 | 1.6 2.8 1.7 2.7 | 15 | 02:15 09:01 SEG 15:19 21:58 | 1.5 3.0 1.5 2.9 | | | |
| 16 | 00:18 06:47 QUA 12:31 19:05 | 0.7 3.2 0.9 3.4 | | | | 16 | 01:26 08:02 SÁB 13:58 20:34 | 1.1 3.1 1.2 3.1 | | | | 16 | 03:54 10:37 TER 16:59 23:31 | 1.6 3.1 1.4 3.0 | | | |

Porto de Lisboa

Latitude 38° 42.00' N Longitude 9° 09.50' W

Horas do Fuso: 0 (TU)

Ano: 2025

| OUTUBRO | | | NOVEMBRO | | | DEZEMBRO | | |
|-----------|--|--|-----------|--|--|-----------|--|--|
| Hora | Altura | | Hora | Altura | | Hora | Altura | |
| 01 | 03:23 1.9 09:56 2.8 QUA 16:32 1.7 23:01 2.7 | | 17 | 00:17 3.2 06:06 1.3 SEX 12:33 3.4 18:41 1.1 | | 01 | 05:10 1.4 11:34 3.3 SÁB 17:44 1.1 | |
| 02 | 04:53 1.7 11:19 3.0 QUI 17:38 1.5 | | 18 | 01:02 3.3 06:50 1.1 SÁB 13:16 3.5 19:18 0.9 | | 17 | 01:05 3.3 06:55 1.1 SEG 13:20 3.4 19:17 1.0 | |
| 03 | 00:04 3.0 05:51 1.5 SEX 12:16 3.3 18:26 1.2 | | 19 | 01:39 3.5 07:27 1.0 DOM 13:53 3.6 19:50 0.9 | | 18 | 01:41 3.4 07:32 1.0 TER 13:56 3.4 19:49 0.9 | |
| 04 | 00:50 3.2 06:38 1.2 SÁB 13:02 3.5 19:07 0.9 | | 20 | 02:12 3.6 08:00 0.9 SEG 14:26 3.7 20:21 0.8 | | 19 | 02:14 3.5 08:07 0.9 QUA 14:30 3.4 20:21 0.9 | |
| 05 | 01:31 3.5 07:20 0.9 DOM 13:45 3.8 19:47 0.7 | | 21 | 02:43 3.6 08:32 0.8 TER 14:58 3.7 ● 20:50 0.8 | | 20 | 02:46 3.5 08:40 0.9 QUI 15:03 3.4 ● 20:52 0.9 | |
| 06 | 02:11 3.7 08:00 0.7 SEG 14:27 4.0 20:25 0.5 | | 22 | 03:13 3.6 09:03 0.8 QUA 15:28 3.6 21:19 0.8 | | 21 | 03:18 3.5 09:14 0.9 SEX 15:35 3.3 21:23 1.0 | |
| 07 | 02:50 3.9 08:40 0.5 TER 15:08 4.1 ○ 21:04 0.4 | | 23 | 03:42 3.6 09:34 0.9 QUI 15:57 3.5 21:47 0.9 | | 22 | 03:50 3.4 09:48 0.9 SÁB 16:08 3.2 21:55 1.0 | |
| 08 | 03:30 4.0 09:21 0.4 QUA 15:50 4.1 21:43 0.4 | | 24 | 04:11 3.5 10:05 0.9 SEX 16:27 3.4 22:16 1.0 | | 23 | 04:23 3.4 10:22 1.0 DOM 16:43 3.1 22:27 1.1 | |
| 09 | 04:11 4.0 10:02 0.4 QUI 16:32 4.0 22:23 0.6 | | 25 | 04:41 3.4 10:37 1.1 SÁB 16:58 3.2 22:45 1.2 | | 24 | 04:58 3.3 10:59 1.1 SEG 17:20 3.0 23:04 1.2 | |
| 10 | 04:52 3.9 10:45 0.6 SEX 17:17 3.8 23:04 0.8 | | 26 | 05:13 3.3 11:11 1.2 DOM 17:32 3.1 23:17 1.4 | | 25 | 05:36 3.2 11:41 1.2 TER 18:03 2.9 23:47 1.3 | |
| 11 | 05:36 3.7 11:32 0.8 SÁB 18:05 3.5 23:51 1.1 | | 27 | 05:49 3.2 11:50 1.4 SEG 18:13 2.9 23:57 1.5 | | 26 | 06:22 3.1 12:30 1.3 QUA 18:56 2.8 | |
| 12 | 06:26 3.5 12:27 1.1 DOM 19:01 3.2 | | 28 | 06:35 3.0 12:44 1.5 TER 19:10 2.7 | | 27 | 00:41 1.4 07:18 3.0 QUI 13:32 1.3 20:04 2.8 | |
| 13 | 00:47 1.4 07:28 3.2 SEG 13:40 1.3 (20:18 2.9 | | 29 | 06:35 3.0 12:44 1.5 TER 19:10 2.7 | | 28 | 01:49 1.5 08:32 3.1 QUA 14:51 1.3 (21:27 2.8 | |
| 14 | 02:07 1.6 08:53 3.1 TER 15:17 1.5 21:55 2.9 | | 30 | 00:56 1.7 07:40 2.9 QUA 14:06 1.6) 20:37 2.6 | | 29 | 03:11 1.5 09:51 3.1 QUI 16:10 1.3 22:41 2.9 | |
| 15 | 03:45 1.6 10:25 3.1 QUA 16:48 1.4 23:18 3.0 | | 31 | 02:33 1.8 09:09 2.9 QUI 15:40 1.6 22:14 2.7 | | 30 | 04:26 1.5 11:00 3.1 SEX 17:14 1.3 23:40 3.0 | |
| 16 | 05:07 1.5 11:38 3.3 QUI 17:54 1.2 | | | 04:04 1.6 10:32 3.0 SEX 16:50 1.4 23:21 3.0 | | 15 | 05:27 1.4 11:56 3.2 SÁB 18:02 1.2 | |
| | | | | | | 16 | 00:26 3.2 06:15 1.2 DOM 12:41 3.3 18:42 1.0 | |
| | | | | | | | | |
| | | | | | | 17 | 05:21 1.1 11:47 3.3 SEG 17:52 0.9 | |
| | | | | | | 18 | 00:21 3.4 06:15 0.9 TER 12:41 3.5 18:42 0.7 | |
| | | | | | | 19 | 01:11 3.5 07:07 0.7 QUA 13:34 3.6 19:30 0.6 | |
| | | | | | | 20 | 01:59 3.7 07:57 0.5 QUI 14:25 3.7 ○ 20:17 0.5 | |
| | | | | | | 21 | 02:48 3.8 08:46 0.4 SEX 15:15 3.7 21:05 0.6 | |
| | | | | | | 22 | 03:37 3.8 09:37 0.4 SÁB 16:05 3.6 21:52 0.6 | |
| | | | | | | 23 | 04:25 3.8 10:27 0.5 DOM 16:55 3.5 22:40 0.8 | |
| | | | | | | 24 | 05:15 3.7 11:19 0.6 SEG 17:46 3.3 23:29 0.9 | |
| | | | | | | 25 | 06:05 3.5 12:11 0.8 TER 18:39 3.1 | |
| | | | | | | 26 | 00:21 1.1 06:58 3.3 QUA 13:06 1.0 19:35 2.9 | |
| | | | | | | 27 | 01:16 1.3 07:55 3.2 QUI 14:05 1.2 (20:38 2.8 | |
| | | | | | | 28 | 02:18 1.4 08:58 3.0 SEX 15:09 1.3 21:43 2.8 | |
| | | | | | | 29 | 03:26 1.4 10:03 2.9 SÁB 16:13 1.3 22:46 2.8 | |
| | | | | | | 30 | 04:33 1.4 11:05 2.9 DOM 17:11 1.3 23:41 2.9 | |
| | | | | | | 31 | 05:32 1.3 12:00 3.0 SEG 18:01 1.2 | |
| | | | | | | | | |
| | | | | | | 17 | 01:11 3.1 07:07 1.1 QUA 13:30 3.1 19:22 1.0 | |
| | | | | | | 18 | 01:50 3.2 07:47 1.0 QUI 14:09 3.1 19:58 1.0 | |
| | | | | | | 19 | 02:26 3.3 08:25 1.0 SEX 14:46 3.1 20:33 1.0 | |
| | | | | | | 20 | 03:01 3.4 09:01 0.9 SÁB 15:22 3.1 ● 21:08 1.0 | |
| | | | | | | 21 | 03:36 3.4 09:37 0.9 DOM 15:58 3.1 21:43 0.9 | |
| | | | | | | 22 | 04:12 3.4 10:14 0.9 SEG 16:34 3.1 22:19 1.0 | |
| | | | | | | 23 | 04:49 3.4 10:51 0.9 TER 17:12 3.1 22:57 1.0 | |
| | | | | | | 24 | 05:28 3.4 11:30 0.9 QUA 17:53 3.1 23:37 1.0 | |
| | | | | | | 25 | 06:10 3.3 12:13 1.0 QUI 18:39 3.0 | |
| | | | | | | 26 | 00:23 1.1 06:57 3.2 SEX 13:01 1.0 19:31 2.9 | |
| | | | | | | 27 | 01:16 1.2 07:51 3.1 SÁB 13:56 1.1) 20:31 2.9 | |
| | | | | | | 28 | 02:19 1.2 08:52 3.1 DOM 15:01 1.1 21:37 2.9 | |
| | | | | | | 29 | 03:30 1.2 10:01 3.1 SEG 16:10 1.1 22:45 3.0 | |
| | | | | | | 30 | 04:42 1.1 11:11 3.1 TER 17:16 1.0 23:49 3.2 | |
| | | | | | | 31 | 05:48 1.0 12:17 3.2 QUA 18:17 0.9 | |

Barra de Lisboa (Cascais)

Latitude 38° 41.59' N Longitude 9° 24.92' W

Horas do Fuso: 0 (TU)

JANEIRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 01 QUA | 2.17 | 2.76 | 3.21 | 3.40 | 3.28 | 2.87 | 2.27 | 1.63 | 1.11 | 0.84 | 0.88 | 1.20 | 1.72 | 2.30 | 2.81 | 3.11 | 3.12 | 2.84 | 2.34 | 1.76 | 1.24 | 0.95 | 0.95 | 1.25 |
| 02 QUI | 1.77 | 2.38 | 2.96 | 3.34 | 3.44 | 3.22 | 2.72 | 2.07 | 1.43 | 0.96 | 0.78 | 0.92 | 1.32 | 1.88 | 2.46 | 2.93 | 3.15 | 3.08 | 2.72 | 2.17 | 1.59 | 1.13 | 0.92 | 1.01 |
| 03 SEX | 1.38 | 1.94 | 2.56 | 3.09 | 3.41 | 3.42 | 3.11 | 2.55 | 1.89 | 1.28 | 0.89 | 0.80 | 1.01 | 1.46 | 2.03 | 2.59 | 2.99 | 3.14 | 2.99 | 2.58 | 2.02 | 1.47 | 1.08 | 0.95 |
| 04 SÁB | 1.12 | 1.53 | 2.10 | 2.69 | 3.16 | 3.40 | 3.33 | 2.97 | 2.39 | 1.75 | 1.20 | 0.89 | 0.87 | 1.13 | 1.59 | 2.14 | 2.65 | 2.99 | 3.07 | 2.87 | 2.45 | 1.92 | 1.42 | 1.10 |
| 05 DOM | 1.04 | 1.24 | 1.66 | 2.20 | 2.74 | 3.15 | 3.33 | 3.21 | 2.82 | 2.26 | 1.67 | 1.20 | 0.95 | 0.98 | 1.26 | 1.70 | 2.21 | 2.66 | 2.94 | 2.98 | 2.76 | 2.36 | 1.87 | 1.43 |
| 06 SEG | 1.17 | 1.14 | 1.36 | 1.75 | 2.24 | 2.73 | 3.08 | 3.21 | 3.07 | 2.70 | 2.19 | 1.66 | 1.25 | 1.06 | 1.10 | 1.36 | 1.76 | 2.22 | 2.62 | 2.87 | 2.89 | 2.69 | 2.32 | 1.88 |
| 07 TER | 1.50 | 1.26 | 1.24 | 1.43 | 1.78 | 2.22 | 2.65 | 2.97 | 3.08 | 2.96 | 2.63 | 2.18 | 1.71 | 1.34 | 1.17 | 1.20 | 1.43 | 1.78 | 2.20 | 2.57 | 2.80 | 2.84 | 2.68 | 2.35 |
| 08 QUA | 1.95 | 1.58 | 1.35 | 1.30 | 1.44 | 1.74 | 2.13 | 2.53 | 2.84 | 2.97 | 2.89 | 2.62 | 2.21 | 1.78 | 1.44 | 1.25 | 1.25 | 1.44 | 1.76 | 2.16 | 2.53 | 2.78 | 2.86 | 2.73 |
| 09 QUI | 2.43 | 2.04 | 1.66 | 1.40 | 1.30 | 1.38 | 1.64 | 2.01 | 2.41 | 2.74 | 2.92 | 2.89 | 2.66 | 2.28 | 1.86 | 1.50 | 1.28 | 1.25 | 1.41 | 1.72 | 2.13 | 2.53 | 2.83 | 2.94 |
| 10 SEX | 2.83 | 2.54 | 2.13 | 1.71 | 1.38 | 1.23 | 1.27 | 1.50 | 1.88 | 2.31 | 2.69 | 2.92 | 2.93 | 2.72 | 2.35 | 1.90 | 1.50 | 1.25 | 1.19 | 1.35 | 1.69 | 2.14 | 2.59 | 2.93 |
| 11 SÁB | 3.07 | 2.96 | 2.64 | 2.18 | 1.69 | 1.30 | 1.10 | 1.12 | 1.37 | 1.79 | 2.28 | 2.71 | 2.98 | 3.00 | 2.78 | 2.37 | 1.88 | 1.44 | 1.16 | 1.11 | 1.30 | 1.70 | 2.21 | 2.72 |
| 12 DOM | 3.09 | 3.23 | 3.09 | 2.70 | 2.16 | 1.61 | 1.17 | 0.95 | 0.99 | 1.29 | 1.77 | 2.32 | 2.79 | 3.07 | 3.07 | 2.80 | 2.33 | 1.79 | 1.31 | 1.04 | 1.03 | 1.29 | 1.77 | 2.35 |
| 13 SEG | 2.90 | 3.27 | 3.37 | 3.16 | 2.69 | 2.07 | 1.46 | 1.00 | 0.81 | 0.92 | 1.29 | 1.84 | 2.43 | 2.92 | 3.16 | 3.10 | 2.75 | 2.21 | 1.63 | 1.16 | 0.93 | 1.00 | 1.36 | 1.91 |
| 14 TER | 2.54 | 3.09 | 3.42 | 3.44 | 3.14 | 2.59 | 1.91 | 1.28 | 0.86 | 0.74 | 0.93 | 1.39 | 1.99 | 2.59 | 3.04 | 3.21 | 3.06 | 2.62 | 2.03 | 1.44 | 1.01 | 0.87 | 1.05 | 1.49 |
| 15 QUA | 2.10 | 2.74 | 3.25 | 3.51 | 3.43 | 3.03 | 2.40 | 1.70 | 1.11 | 0.77 | 0.76 | 1.05 | 1.57 | 2.19 | 2.76 | 3.12 | 3.18 | 2.93 | 2.42 | 1.81 | 1.25 | 0.92 | 0.90 | 1.18 |
| 16 QUI | 1.70 | 2.32 | 2.93 | 3.36 | 3.50 | 3.31 | 2.82 | 2.16 | 1.50 | 0.99 | 0.78 | 0.88 | 1.26 | 1.81 | 2.40 | 2.89 | 3.14 | 3.08 | 2.73 | 2.18 | 1.59 | 1.13 | 0.92 | 1.02 |
| 17 SEX | 1.39 | 1.93 | 2.53 | 3.06 | 3.37 | 3.39 | 3.09 | 2.56 | 1.92 | 1.33 | 0.96 | 0.88 | 1.08 | 1.51 | 2.05 | 2.58 | 2.95 | 3.07 | 2.90 | 2.49 | 1.95 | 1.44 | 1.09 | 1.01 |
| 18 SÁB | 1.21 | 1.63 | 2.16 | 2.69 | 3.11 | 3.29 | 3.19 | 2.83 | 2.29 | 1.71 | 1.25 | 1.01 | 1.05 | 1.33 | 1.77 | 2.26 | 2.68 | 2.93 | 2.93 | 2.69 | 2.26 | 1.77 | 1.36 | 1.14 |
| 19 DOM | 1.17 | 1.43 | 1.86 | 2.34 | 2.77 | 3.06 | 3.13 | 2.94 | 2.55 | 2.05 | 1.58 | 1.25 | 1.14 | 1.26 | 1.57 | 1.98 | 2.39 | 2.71 | 2.84 | 2.76 | 2.48 | 2.09 | 1.68 | 1.38 |
| 20 SEG | 1.27 | 1.37 | 1.65 | 2.03 | 2.44 | 2.77 | 2.94 | 2.92 | 2.69 | 2.32 | 1.90 | 1.53 | 1.32 | 1.30 | 1.46 | 1.76 | 2.12 | 2.44 | 2.66 | 2.72 | 2.60 | 2.34 | 2.00 | 1.68 |
| 21 TER | 1.47 | 1.43 | 1.55 | 1.81 | 2.13 | 2.45 | 2.69 | 2.78 | 2.72 | 2.49 | 2.17 | 1.84 | 1.57 | 1.43 | 1.45 | 1.62 | 1.88 | 2.17 | 2.43 | 2.59 | 2.61 | 2.50 | 2.27 | 1.99 |
| 22 QUA | 1.74 | 1.59 | 1.57 | 1.68 | 1.89 | 2.14 | 2.39 | 2.56 | 2.63 | 2.56 | 2.37 | 2.12 | 1.85 | 1.64 | 1.54 | 1.56 | 1.70 | 1.91 | 2.16 | 2.38 | 2.52 | 2.56 | 2.47 | 2.28 |
| 23 QUI | 2.05 | 1.83 | 1.69 | 1.65 | 1.72 | 1.87 | 2.08 | 2.29 | 2.45 | 2.52 | 2.49 | 2.35 | 2.13 | 1.90 | 1.71 | 1.60 | 1.60 | 1.70 | 1.88 | 2.12 | 2.34 | 2.51 | 2.57 | 2.52 |
| 24 SEX | 2.35 | 2.13 | 1.91 | 1.73 | 1.65 | 1.67 | 1.79 | 1.98 | 2.20 | 2.39 | 2.50 | 2.50 | 2.39 | 2.19 | 1.95 | 1.74 | 1.59 | 1.55 | 1.64 | 1.83 | 2.10 | 2.36 | 2.57 | 2.67 |
| 25 SÁB | 2.62 | 2.45 | 2.19 | 1.92 | 1.69 | 1.55 | 1.54 | 1.67 | 1.89 | 2.16 | 2.41 | 2.57 | 2.59 | 2.48 | 2.24 | 1.96 | 1.69 | 1.50 | 1.45 | 1.55 | 1.80 | 2.13 | 2.46 | 2.72 |
| 26 DOM | 2.83 | 2.76 | 2.53 | 2.20 | 1.84 | 1.54 | 1.38 | 1.38 | 1.56 | 1.86 | 2.21 | 2.52 | 2.71 | 2.72 | 2.56 | 2.25 | 1.89 | 1.55 | 1.34 | 1.31 | 1.48 | 1.82 | 2.24 | 2.64 |
| 27 SEG | 2.93 | 3.01 | 2.88 | 2.55 | 2.11 | 1.67 | 1.32 | 1.17 | 1.23 | 1.50 | 1.91 | 2.35 | 2.71 | 2.89 | 2.85 | 2.60 | 2.18 | 1.73 | 1.35 | 1.15 | 1.19 | 1.47 | 1.92 | 2.44 |
| 28 TER | 2.89 | 3.16 | 3.18 | 2.94 | 2.49 | 1.93 | 1.42 | 1.07 | 0.96 | 1.13 | 1.53 | 2.05 | 2.56 | 2.94 | 3.08 | 2.94 | 2.56 | 2.03 | 1.50 | 1.11 | 0.97 | 1.11 | 1.52 | 2.10 |
| 29 QUA | 2.69 | 3.16 | 3.39 | 3.31 | 2.93 | 2.34 | 1.69 | 1.13 | 0.82 | 0.81 | 1.12 | 1.64 | 2.26 | 2.81 | 3.16 | 3.21 | 2.95 | 2.44 | 1.82 | 1.25 | 0.89 | 0.84 | 1.12 | 1.66 |
| 30 QUI | 2.33 | 2.97 | 3.41 | 3.56 | 3.34 | 2.82 | 2.12 | 1.41 | 0.87 | 0.64 | 0.76 | 1.19 | 1.83 | 2.50 | 3.05 | 3.33 | 3.26 | 2.87 | 2.25 | 1.56 | 1.01 | 0.73 | 0.81 | 1.22 |
| 31 SEX | 1.86 | 2.58 | 3.22 | 3.60 | 3.63 | 3.28 | 2.64 | 1.86 | 1.15 | 0.67 | 0.56 | 0.81 | 1.35 | 2.05 | 2.73 | 3.22 | 3.40 | 3.21 | 2.71 | 2.02 | 1.33 | 0.84 | 0.67 | 0.87 |

Barra de Lisboa (Cascais)

Latitude 38° 41.59' N Longitude 9° 24.92' W

Horas do Fuso: 0 (TU)

FEVEREIRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 SAB | 1.38 | 2.08 | 2.81 | 3.40 | 3.68 | 3.59 | 3.13 | 2.41 | 1.62 | 0.96 | 0.59 | 0.60 | 0.96 | 1.56 | 2.27 | 2.90 | 3.31 | 3.37 | 3.08 | 2.50 | 1.80 | 1.16 | 0.77 | 0.71 |
| 02 DOM | 1.01 | 1.58 | 2.29 | 2.97 | 3.47 | 3.65 | 3.45 | 2.92 | 2.19 | 1.44 | 0.88 | 0.64 | 0.75 | 1.17 | 1.78 | 2.44 | 2.99 | 3.28 | 3.25 | 2.89 | 2.30 | 1.64 | 1.09 | 0.81 |
| 03 SEG | 0.85 | 1.20 | 1.77 | 2.43 | 3.02 | 3.42 | 3.49 | 3.23 | 2.69 | 2.01 | 1.37 | 0.93 | 0.79 | 0.97 | 1.40 | 1.96 | 2.53 | 2.97 | 3.17 | 3.07 | 2.69 | 2.15 | 1.58 | 1.14 |
| 04 TER | 0.95 | 1.04 | 1.39 | 1.90 | 2.47 | 2.96 | 3.25 | 3.27 | 2.99 | 2.50 | 1.92 | 1.40 | 1.07 | 1.01 | 1.20 | 1.59 | 2.06 | 2.53 | 2.88 | 3.01 | 2.89 | 2.55 | 2.08 | 1.62 |
| 05 QUA | 1.27 | 1.14 | 1.23 | 1.53 | 1.94 | 2.40 | 2.80 | 3.02 | 3.02 | 2.79 | 2.39 | 1.93 | 1.52 | 1.28 | 1.24 | 1.39 | 1.70 | 2.08 | 2.45 | 2.74 | 2.85 | 2.76 | 2.50 | 2.13 |
| 06 QUI | 1.75 | 1.46 | 1.32 | 1.37 | 1.57 | 1.88 | 2.25 | 2.57 | 2.78 | 2.82 | 2.67 | 2.38 | 2.02 | 1.69 | 1.47 | 1.41 | 1.49 | 1.71 | 2.01 | 2.34 | 2.61 | 2.75 | 2.73 | 2.55 |
| 07 SEX | 2.26 | 1.92 | 1.63 | 1.45 | 1.41 | 1.51 | 1.74 | 2.05 | 2.36 | 2.60 | 2.71 | 2.65 | 2.45 | 2.16 | 1.85 | 1.61 | 1.48 | 1.49 | 1.64 | 1.90 | 2.23 | 2.54 | 2.75 | 2.81 |
| 08 SAB | 2.69 | 2.43 | 2.09 | 1.74 | 1.48 | 1.35 | 1.37 | 1.56 | 1.86 | 2.22 | 2.53 | 2.72 | 2.73 | 2.57 | 2.28 | 1.94 | 1.63 | 1.43 | 1.39 | 1.52 | 1.81 | 2.19 | 2.57 | 2.86 |
| 09 DOM | 2.97 | 2.87 | 2.58 | 2.18 | 1.75 | 1.40 | 1.20 | 1.19 | 1.40 | 1.76 | 2.19 | 2.58 | 2.82 | 2.86 | 2.68 | 2.34 | 1.92 | 1.53 | 1.29 | 1.24 | 1.41 | 1.77 | 2.24 | 2.70 |
| 10 SEG | 3.04 | 3.16 | 3.02 | 2.66 | 2.16 | 1.64 | 1.22 | 1.01 | 1.04 | 1.32 | 1.77 | 2.29 | 2.73 | 2.98 | 2.98 | 2.72 | 2.28 | 1.78 | 1.34 | 1.10 | 1.11 | 1.37 | 1.84 | 2.40 |
| 11 TER | 2.91 | 3.25 | 3.32 | 3.10 | 2.63 | 2.02 | 1.43 | 1.01 | 0.85 | 0.98 | 1.36 | 1.91 | 2.49 | 2.93 | 3.13 | 3.03 | 2.66 | 2.12 | 1.55 | 1.12 | 0.94 | 1.05 | 1.44 | 2.01 |
| 12 QUA | 2.63 | 3.15 | 3.43 | 3.40 | 3.05 | 2.46 | 1.78 | 1.19 | 0.82 | 0.77 | 1.04 | 1.54 | 2.16 | 2.74 | 3.12 | 3.21 | 2.98 | 2.48 | 1.86 | 1.29 | 0.92 | 0.86 | 1.11 | 1.62 |
| 13 QUI | 2.26 | 2.89 | 3.35 | 3.52 | 3.34 | 2.86 | 2.19 | 1.49 | 0.96 | 0.72 | 0.83 | 1.22 | 1.81 | 2.45 | 2.97 | 3.24 | 3.18 | 2.81 | 2.22 | 1.57 | 1.06 | 0.81 | 0.90 | 1.29 |
| 14 SEX | 1.88 | 2.54 | 3.12 | 3.46 | 3.48 | 3.16 | 2.57 | 1.86 | 1.23 | 0.82 | 0.75 | 1.01 | 1.51 | 2.13 | 2.72 | 3.13 | 3.25 | 3.03 | 2.54 | 1.91 | 1.31 | 0.92 | 0.83 | 1.07 |
| 15 SAB | 1.56 | 2.18 | 2.80 | 3.26 | 3.45 | 3.31 | 2.87 | 2.23 | 1.56 | 1.04 | 0.81 | 0.90 | 1.28 | 1.84 | 2.43 | 2.92 | 3.18 | 3.13 | 2.79 | 2.24 | 1.63 | 1.14 | 0.90 | 0.97 |
| 16 DOM | 1.32 | 1.86 | 2.46 | 2.98 | 3.29 | 3.32 | 3.04 | 2.52 | 1.90 | 1.34 | 0.98 | 0.92 | 1.15 | 1.60 | 2.14 | 2.65 | 3.01 | 3.11 | 2.93 | 2.51 | 1.96 | 1.44 | 1.09 | 1.00 |
| 17 SEG | 1.20 | 1.61 | 2.14 | 2.65 | 3.04 | 3.20 | 3.08 | 2.72 | 2.20 | 1.65 | 1.23 | 1.04 | 1.13 | 1.44 | 1.89 | 2.38 | 2.77 | 2.98 | 2.95 | 2.68 | 2.24 | 1.76 | 1.36 | 1.15 |
| 18 TER | 1.19 | 1.46 | 1.88 | 2.33 | 2.73 | 2.98 | 3.00 | 2.80 | 2.42 | 1.95 | 1.52 | 1.25 | 1.20 | 1.37 | 1.71 | 2.12 | 2.50 | 2.77 | 2.87 | 2.75 | 2.46 | 2.06 | 1.67 | 1.39 |
| 19 QUA | 1.30 | 1.42 | 1.69 | 2.06 | 2.42 | 2.70 | 2.83 | 2.77 | 2.54 | 2.19 | 1.82 | 1.52 | 1.37 | 1.40 | 1.60 | 1.90 | 2.23 | 2.52 | 2.69 | 2.71 | 2.57 | 2.30 | 1.98 | 1.69 |
| 20 QUI | 1.51 | 1.49 | 1.61 | 1.84 | 2.12 | 2.39 | 2.57 | 2.64 | 2.55 | 2.35 | 2.08 | 1.81 | 1.61 | 1.53 | 1.59 | 1.75 | 1.99 | 2.24 | 2.45 | 2.57 | 2.58 | 2.46 | 2.25 | 2.01 |
| 21 SEX | 1.79 | 1.66 | 1.64 | 1.72 | 1.88 | 2.08 | 2.28 | 2.42 | 2.47 | 2.42 | 2.28 | 2.09 | 1.89 | 1.74 | 1.67 | 1.69 | 1.80 | 1.96 | 2.16 | 2.35 | 2.48 | 2.52 | 2.46 | 2.31 |
| 22 SAB | 2.12 | 1.92 | 1.78 | 1.71 | 1.72 | 1.81 | 1.96 | 2.13 | 2.29 | 2.38 | 2.40 | 2.33 | 2.19 | 2.01 | 1.84 | 1.73 | 1.68 | 1.73 | 1.86 | 2.06 | 2.28 | 2.46 | 2.57 | 2.56 |
| 23 DOM | 2.45 | 2.25 | 2.02 | 1.81 | 1.66 | 1.60 | 1.65 | 1.80 | 2.01 | 2.24 | 2.42 | 2.50 | 2.47 | 2.33 | 2.11 | 1.87 | 1.67 | 1.56 | 1.58 | 1.73 | 1.99 | 2.29 | 2.56 | 2.73 |
| 24 SEG | 2.75 | 2.62 | 2.36 | 2.03 | 1.71 | 1.48 | 1.38 | 1.45 | 1.67 | 1.98 | 2.31 | 2.57 | 2.70 | 2.66 | 2.45 | 2.13 | 1.79 | 1.50 | 1.36 | 1.40 | 1.63 | 1.99 | 2.41 | 2.76 |
| 25 TER | 2.97 | 2.97 | 2.76 | 2.38 | 1.92 | 1.50 | 1.21 | 1.13 | 1.27 | 1.61 | 2.06 | 2.50 | 2.82 | 2.94 | 2.83 | 2.50 | 2.05 | 1.59 | 1.24 | 1.11 | 1.24 | 1.60 | 2.10 | 2.63 |
| 26 QUA | 3.05 | 3.25 | 3.17 | 2.82 | 2.29 | 1.70 | 1.20 | 0.91 | 0.90 | 1.18 | 1.67 | 2.25 | 2.78 | 3.11 | 3.16 | 2.92 | 2.44 | 1.85 | 1.30 | 0.95 | 0.90 | 1.16 | 1.67 | 2.32 |
| 27 QUI | 2.93 | 3.37 | 3.50 | 3.29 | 2.78 | 2.09 | 1.39 | 0.87 | 0.64 | 0.76 | 1.20 | 1.84 | 2.53 | 3.08 | 3.37 | 3.30 | 2.90 | 2.26 | 1.56 | 0.99 | 0.69 | 0.76 | 1.18 | 1.85 |
| 28 SEX | 2.60 | 3.25 | 3.64 | 3.67 | 3.30 | 2.63 | 1.82 | 1.07 | 0.58 | 0.47 | 0.75 | 1.34 | 2.10 | 2.83 | 3.36 | 3.54 | 3.32 | 2.76 | 2.01 | 1.25 | 0.71 | 0.53 | 0.75 | 1.31 |

Barra de Lisboa (Cascais)

Latitude 38° 41.59' N Longitude 9° 24.92' W

Horas do Fuso: 0 (TU)

MARÇO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 01 SÁB | 2.09 | 2.89 | 3.52 | 3.82 | 3.70 | 3.18 | 2.39 | 1.52 | 0.80 | 0.42 | 0.45 | 0.88 | 1.58 | 2.39 | 3.09 | 3.53 | 3.57 | 3.21 | 2.53 | 1.72 | 0.99 | 0.54 | 0.50 | 0.86 |
| 02 DOM | 1.52 | 2.34 | 3.13 | 3.68 | 3.85 | 3.59 | 2.96 | 2.11 | 1.27 | 0.65 | 0.41 | 0.59 | 1.12 | 1.86 | 2.64 | 3.26 | 3.57 | 3.47 | 3.00 | 2.27 | 1.47 | 0.83 | 0.52 | 0.60 |
| 03 SEG | 1.06 | 1.76 | 2.55 | 3.25 | 3.68 | 3.72 | 3.36 | 2.68 | 1.87 | 1.12 | 0.65 | 0.56 | 0.84 | 1.41 | 2.12 | 2.80 | 3.30 | 3.47 | 3.27 | 2.75 | 2.04 | 1.33 | 0.82 | 0.64 |
| 04 TER | 0.81 | 1.29 | 1.95 | 2.65 | 3.22 | 3.52 | 3.47 | 3.07 | 2.43 | 1.71 | 1.12 | 0.80 | 0.82 | 1.14 | 1.68 | 2.29 | 2.85 | 3.21 | 3.27 | 3.02 | 2.52 | 1.90 | 1.32 | 0.95 |
| 05 QUA | 0.86 | 1.07 | 1.50 | 2.06 | 2.62 | 3.06 | 3.25 | 3.15 | 2.78 | 2.24 | 1.68 | 1.25 | 1.06 | 1.13 | 1.43 | 1.87 | 2.35 | 2.77 | 3.02 | 3.04 | 2.80 | 2.38 | 1.89 | 1.45 |
| 06 QUI | 1.17 | 1.13 | 1.29 | 1.62 | 2.05 | 2.47 | 2.80 | 2.93 | 2.85 | 2.57 | 2.18 | 1.77 | 1.47 | 1.34 | 1.40 | 1.62 | 1.94 | 2.29 | 2.61 | 2.81 | 2.83 | 2.67 | 2.37 | 2.00 |
| 07 SEX | 1.66 | 1.43 | 1.36 | 1.43 | 1.64 | 1.93 | 2.24 | 2.51 | 2.65 | 2.64 | 2.49 | 2.23 | 1.94 | 1.71 | 1.58 | 1.57 | 1.68 | 1.89 | 2.15 | 2.43 | 2.63 | 2.72 | 2.66 | 2.47 |
| 08 SÁB | 2.19 | 1.90 | 1.65 | 1.49 | 1.46 | 1.54 | 1.74 | 2.00 | 2.28 | 2.48 | 2.57 | 2.53 | 2.36 | 2.13 | 1.89 | 1.70 | 1.60 | 1.61 | 1.75 | 1.99 | 2.29 | 2.55 | 2.73 | 2.77 |
| 09 DOM | 2.65 | 2.40 | 2.08 | 1.75 | 1.50 | 1.36 | 1.38 | 1.55 | 1.83 | 2.17 | 2.46 | 2.64 | 2.66 | 2.52 | 2.26 | 1.95 | 1.67 | 1.49 | 1.46 | 1.59 | 1.88 | 2.24 | 2.60 | 2.86 |
| 10 SEG | 2.94 | 2.83 | 2.54 | 2.14 | 1.72 | 1.38 | 1.19 | 1.21 | 1.42 | 1.79 | 2.21 | 2.58 | 2.80 | 2.81 | 2.62 | 2.28 | 1.87 | 1.51 | 1.30 | 1.29 | 1.49 | 1.86 | 2.32 | 2.76 |
| 11 TER | 3.06 | 3.13 | 2.96 | 2.57 | 2.06 | 1.56 | 1.18 | 1.01 | 1.10 | 1.42 | 1.88 | 2.39 | 2.79 | 2.99 | 2.93 | 2.63 | 2.17 | 1.67 | 1.28 | 1.09 | 1.17 | 1.48 | 1.97 | 2.52 |
| 12 QUA | 2.99 | 3.26 | 3.25 | 2.96 | 2.45 | 1.85 | 1.31 | 0.96 | 0.89 | 1.11 | 1.55 | 2.12 | 2.66 | 3.03 | 3.13 | 2.94 | 2.50 | 1.93 | 1.40 | 1.04 | 0.95 | 1.16 | 1.60 | 2.19 |
| 13 QUI | 2.78 | 3.23 | 3.40 | 3.26 | 2.82 | 2.20 | 1.55 | 1.04 | 0.80 | 0.88 | 1.25 | 1.81 | 2.43 | 2.94 | 3.22 | 3.17 | 2.82 | 2.26 | 1.63 | 1.12 | 0.86 | 0.92 | 1.28 | 1.84 |
| 14 SEX | 2.49 | 3.05 | 3.40 | 3.43 | 3.12 | 2.55 | 1.86 | 1.24 | 0.84 | 0.76 | 1.02 | 1.52 | 2.15 | 2.75 | 3.17 | 3.29 | 3.08 | 2.58 | 1.94 | 1.32 | 0.91 | 0.80 | 1.03 | 1.52 |
| 15 SÁB | 2.15 | 2.78 | 3.26 | 3.45 | 3.31 | 2.85 | 2.20 | 1.52 | 0.99 | 0.76 | 0.87 | 1.27 | 1.87 | 2.50 | 3.02 | 3.29 | 3.23 | 2.86 | 2.26 | 1.61 | 1.08 | 0.81 | 0.89 | 1.26 |
| 16 DOM | 1.83 | 2.47 | 3.02 | 3.35 | 3.37 | 3.06 | 2.50 | 1.83 | 1.23 | 0.86 | 0.82 | 1.10 | 1.61 | 2.22 | 2.79 | 3.17 | 3.27 | 3.05 | 2.56 | 1.93 | 1.34 | 0.95 | 0.86 | 1.09 |
| 17 SEG | 1.56 | 2.15 | 2.72 | 3.15 | 3.31 | 3.16 | 2.74 | 2.14 | 1.53 | 1.07 | 0.88 | 1.01 | 1.41 | 1.96 | 2.52 | 2.97 | 3.20 | 3.13 | 2.78 | 2.24 | 1.65 | 1.18 | 0.95 | 1.02 |
| 18 TER | 1.36 | 1.86 | 2.41 | 2.87 | 3.14 | 3.14 | 2.87 | 2.39 | 1.83 | 1.33 | 1.05 | 1.03 | 1.29 | 1.74 | 2.25 | 2.72 | 3.03 | 3.10 | 2.90 | 2.49 | 1.97 | 1.48 | 1.15 | 1.08 |
| 19 QUA | 1.26 | 1.64 | 2.11 | 2.56 | 2.89 | 3.02 | 2.90 | 2.56 | 2.10 | 1.63 | 1.28 | 1.15 | 1.27 | 1.58 | 2.01 | 2.45 | 2.79 | 2.97 | 2.92 | 2.65 | 2.25 | 1.80 | 1.43 | 1.24 |
| 20 QUI | 1.28 | 1.51 | 1.87 | 2.26 | 2.60 | 2.80 | 2.81 | 2.63 | 2.30 | 1.91 | 1.56 | 1.36 | 1.34 | 1.52 | 1.82 | 2.18 | 2.52 | 2.75 | 2.83 | 2.72 | 2.45 | 2.10 | 1.75 | 1.50 |
| 21 SEX | 1.41 | 1.48 | 1.70 | 1.99 | 2.28 | 2.52 | 2.63 | 2.60 | 2.42 | 2.15 | 1.85 | 1.62 | 1.51 | 1.55 | 1.71 | 1.95 | 2.23 | 2.47 | 2.63 | 2.67 | 2.57 | 2.35 | 2.08 | 1.82 |
| 22 SÁB | 1.64 | 1.57 | 1.63 | 1.78 | 1.99 | 2.20 | 2.37 | 2.46 | 2.44 | 2.31 | 2.13 | 1.92 | 1.76 | 1.67 | 1.69 | 1.79 | 1.96 | 2.16 | 2.36 | 2.51 | 2.56 | 2.51 | 2.37 | 2.16 |
| 23 DOM | 1.95 | 1.78 | 1.68 | 1.67 | 1.74 | 1.88 | 2.05 | 2.22 | 2.35 | 2.39 | 2.35 | 2.23 | 2.07 | 1.90 | 1.78 | 1.72 | 1.75 | 1.85 | 2.03 | 2.24 | 2.44 | 2.56 | 2.58 | 2.49 |
| 24 SEG | 2.31 | 2.08 | 1.85 | 1.67 | 1.57 | 1.58 | 1.70 | 1.90 | 2.14 | 2.34 | 2.48 | 2.50 | 2.41 | 2.22 | 1.99 | 1.77 | 1.62 | 1.58 | 1.67 | 1.89 | 2.18 | 2.47 | 2.68 | 2.77 |
| 25 TER | 2.70 | 2.48 | 2.16 | 1.81 | 1.53 | 1.36 | 1.35 | 1.51 | 1.80 | 2.16 | 2.48 | 2.69 | 2.74 | 2.60 | 2.33 | 1.97 | 1.64 | 1.41 | 1.35 | 1.49 | 1.80 | 2.22 | 2.63 | 2.92 |
| 26 QUA | 3.03 | 2.91 | 2.58 | 2.13 | 1.65 | 1.27 | 1.07 | 1.11 | 1.38 | 1.81 | 2.30 | 2.73 | 2.97 | 2.98 | 2.75 | 2.32 | 1.82 | 1.38 | 1.11 | 1.10 | 1.35 | 1.82 | 2.38 | 2.89 |
| 27 QUI | 3.23 | 3.30 | 3.07 | 2.59 | 1.98 | 1.38 | 0.94 | 0.78 | 0.93 | 1.35 | 1.95 | 2.56 | 3.04 | 3.27 | 3.17 | 2.78 | 2.19 | 1.56 | 1.06 | 0.82 | 0.91 | 1.32 | 1.94 | 2.63 |
| 28 SEX | 3.21 | 3.54 | 3.51 | 3.13 | 2.48 | 1.72 | 1.05 | 0.63 | 0.57 | 0.87 | 1.46 | 2.19 | 2.88 | 3.35 | 3.49 | 3.25 | 2.69 | 1.95 | 1.24 | 0.74 | 0.59 | 0.83 | 1.39 | 2.16 |
| 29 SÁB | 2.93 | 3.51 | 3.77 | 3.61 | 3.07 | 2.27 | 1.43 | 0.75 | 0.41 | 0.49 | 0.95 | 1.68 | 2.49 | 3.18 | 3.59 | 3.60 | 3.20 | 2.49 | 1.66 | 0.93 | 0.50 | 0.48 | 0.87 | 1.56 |
| 30 DOM | 2.41 | 3.19 | 3.72 | 3.86 | 3.56 | 2.88 | 2.01 | 1.15 | 0.55 | 0.34 | 0.57 | 1.16 | 1.96 | 2.78 | 3.41 | 3.70 | 3.56 | 3.02 | 2.22 | 1.37 | 0.71 | 0.39 | 0.51 | 1.01 |
| 31 SEG | 1.78 | 2.63 | 3.36 | 3.79 | 3.80 | 3.38 | 2.63 | 1.75 | 0.97 | 0.50 | 0.44 | 0.79 | 1.44 | 2.24 | 2.99 | 3.52 | 3.66 | 3.40 | 2.78 | 1.97 | 1.18 | 0.62 | 0.44 | 0.67 |

Barra de Lisboa (Cascais)

Latitude 38° 41.59' N Longitude 9° 24.92' W

Horas do Fuso: 0 (TU)

ABRIL 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 TER | 1.22 | 1.98 | 2.76 | 3.38 | 3.69 | 3.59 | 3.10 | 2.36 | 1.57 | 0.92 | 0.61 | 0.68 | 1.09 | 1.74 | 2.46 | 3.09 | 3.48 | 3.50 | 3.16 | 2.53 | 1.79 | 1.11 | 0.69 | 0.62 |
| 02 QUA | 0.90 | 1.44 | 2.11 | 2.77 | 3.26 | 3.45 | 3.28 | 2.81 | 2.15 | 1.50 | 1.02 | 0.85 | 0.99 | 1.40 | 1.97 | 2.56 | 3.06 | 3.31 | 3.26 | 2.91 | 2.35 | 1.72 | 1.19 | 0.89 |
| 03 QUI | 0.88 | 1.14 | 1.59 | 2.14 | 2.66 | 3.02 | 3.13 | 2.96 | 2.56 | 2.05 | 1.56 | 1.23 | 1.15 | 1.30 | 1.64 | 2.09 | 2.55 | 2.91 | 3.09 | 3.02 | 2.72 | 2.28 | 1.79 | 1.39 |
| 04 SEX | 1.16 | 1.15 | 1.34 | 1.66 | 2.06 | 2.45 | 2.73 | 2.81 | 2.70 | 2.42 | 2.06 | 1.71 | 1.49 | 1.43 | 1.53 | 1.76 | 2.08 | 2.42 | 2.71 | 2.86 | 2.83 | 2.64 | 2.32 | 1.95 |
| 05 SAB | 1.63 | 1.42 | 1.36 | 1.43 | 1.63 | 1.91 | 2.21 | 2.46 | 2.58 | 2.55 | 2.40 | 2.16 | 1.91 | 1.71 | 1.61 | 1.63 | 1.76 | 1.98 | 2.25 | 2.52 | 2.70 | 2.75 | 2.66 | 2.45 |
| 06 DOM | 2.15 | 1.85 | 1.60 | 1.45 | 1.42 | 1.53 | 1.74 | 2.02 | 2.29 | 2.48 | 2.55 | 2.48 | 2.31 | 2.08 | 1.84 | 1.67 | 1.60 | 1.65 | 1.83 | 2.10 | 2.39 | 2.65 | 2.79 | 2.77 |
| 07 SEG | 2.61 | 2.32 | 1.98 | 1.66 | 1.42 | 1.33 | 1.39 | 1.61 | 1.92 | 2.25 | 2.52 | 2.65 | 2.62 | 2.44 | 2.15 | 1.85 | 1.60 | 1.47 | 1.50 | 1.70 | 2.01 | 2.38 | 2.71 | 2.91 |
| 08 TER | 2.92 | 2.73 | 2.39 | 1.97 | 1.58 | 1.30 | 1.19 | 1.29 | 1.57 | 1.96 | 2.36 | 2.67 | 2.82 | 2.75 | 2.49 | 2.11 | 1.73 | 1.43 | 1.29 | 1.37 | 1.64 | 2.04 | 2.49 | 2.86 |
| 09 QUA | 3.06 | 3.03 | 2.77 | 2.33 | 1.84 | 1.40 | 1.12 | 1.08 | 1.27 | 1.65 | 2.13 | 2.58 | 2.89 | 2.97 | 2.80 | 2.43 | 1.95 | 1.51 | 1.21 | 1.14 | 1.32 | 1.69 | 2.19 | 2.69 |
| 10 QUI | 3.05 | 3.19 | 3.06 | 2.68 | 2.15 | 1.59 | 1.17 | 0.97 | 1.04 | 1.37 | 1.86 | 2.40 | 2.85 | 3.09 | 3.05 | 2.74 | 2.25 | 1.70 | 1.26 | 1.03 | 1.07 | 1.38 | 1.86 | 2.43 |
| 11 SEX | 2.92 | 3.22 | 3.24 | 2.97 | 2.47 | 1.86 | 1.31 | 0.96 | 0.90 | 1.12 | 1.58 | 2.16 | 2.71 | 3.09 | 3.21 | 3.01 | 2.57 | 1.98 | 1.42 | 1.03 | 0.93 | 1.12 | 1.55 | 2.12 |
| 12 SAB | 2.70 | 3.13 | 3.31 | 3.18 | 2.76 | 2.16 | 1.54 | 1.05 | 0.84 | 0.94 | 1.33 | 1.89 | 2.49 | 2.99 | 3.25 | 3.21 | 2.85 | 2.29 | 1.67 | 1.16 | 0.89 | 0.94 | 1.28 | 1.81 |
| 13 DOM | 2.41 | 2.94 | 3.26 | 3.29 | 3.00 | 2.46 | 1.82 | 1.25 | 0.89 | 0.85 | 1.12 | 1.63 | 2.23 | 2.80 | 3.19 | 3.29 | 3.08 | 2.59 | 1.97 | 1.38 | 0.98 | 0.87 | 1.07 | 1.53 |
| 14 SEG | 2.11 | 2.68 | 3.11 | 3.28 | 3.14 | 2.72 | 2.12 | 1.51 | 1.05 | 0.86 | 0.99 | 1.40 | 1.97 | 2.56 | 3.03 | 3.27 | 3.21 | 2.85 | 2.28 | 1.67 | 1.17 | 0.91 | 0.96 | 1.30 |
| 15 TER | 1.81 | 2.38 | 2.87 | 3.16 | 3.18 | 2.90 | 2.39 | 1.80 | 1.28 | 0.97 | 0.96 | 1.24 | 1.72 | 2.29 | 2.81 | 3.15 | 3.23 | 3.02 | 2.56 | 1.98 | 1.44 | 1.07 | 0.97 | 1.15 |
| 16 QUA | 1.56 | 2.08 | 2.58 | 2.95 | 3.10 | 2.97 | 2.60 | 2.09 | 1.56 | 1.18 | 1.03 | 1.17 | 1.53 | 2.03 | 2.54 | 2.94 | 3.14 | 3.08 | 2.77 | 2.29 | 1.75 | 1.32 | 1.09 | 1.11 |
| 17 QUI | 1.38 | 1.80 | 2.27 | 2.68 | 2.92 | 2.94 | 2.72 | 2.32 | 1.85 | 1.44 | 1.20 | 1.19 | 1.42 | 1.80 | 2.26 | 2.68 | 2.96 | 3.04 | 2.89 | 2.54 | 2.08 | 1.63 | 1.31 | 1.20 |
| 18 SEX | 1.31 | 1.60 | 1.98 | 2.37 | 2.66 | 2.80 | 2.74 | 2.49 | 2.12 | 1.73 | 1.44 | 1.32 | 1.39 | 1.64 | 2.00 | 2.38 | 2.70 | 2.88 | 2.88 | 2.70 | 2.36 | 1.97 | 1.62 | 1.40 |
| 19 SAB | 1.35 | 1.48 | 1.74 | 2.05 | 2.36 | 2.57 | 2.64 | 2.55 | 2.33 | 2.03 | 1.74 | 1.53 | 1.48 | 1.57 | 1.79 | 2.08 | 2.38 | 2.63 | 2.76 | 2.74 | 2.57 | 2.29 | 1.97 | 1.69 |
| 20 DOM | 1.52 | 1.48 | 1.58 | 1.78 | 2.03 | 2.27 | 2.44 | 2.51 | 2.45 | 2.28 | 2.05 | 1.83 | 1.67 | 1.61 | 1.67 | 1.83 | 2.06 | 2.30 | 2.52 | 2.66 | 2.67 | 2.54 | 2.32 | 2.05 |
| 21 SEG | 1.80 | 1.61 | 1.54 | 1.58 | 1.71 | 1.92 | 2.15 | 2.34 | 2.45 | 2.46 | 2.35 | 2.18 | 1.97 | 1.78 | 1.67 | 1.66 | 1.75 | 1.94 | 2.19 | 2.44 | 2.62 | 2.70 | 2.63 | 2.45 |
| 22 TER | 2.17 | 1.88 | 1.63 | 1.48 | 1.45 | 1.56 | 1.77 | 2.05 | 2.32 | 2.51 | 2.59 | 2.52 | 2.34 | 2.08 | 1.81 | 1.61 | 1.53 | 1.59 | 1.79 | 2.09 | 2.42 | 2.70 | 2.84 | 2.81 |
| 23 QUA | 2.61 | 2.27 | 1.88 | 1.54 | 1.31 | 1.24 | 1.37 | 1.65 | 2.03 | 2.41 | 2.69 | 2.81 | 2.73 | 2.48 | 2.11 | 1.73 | 1.44 | 1.31 | 1.38 | 1.66 | 2.07 | 2.51 | 2.88 | 3.07 |
| 24 QUI | 3.03 | 2.75 | 2.30 | 1.79 | 1.34 | 1.06 | 1.01 | 1.20 | 1.61 | 2.11 | 2.60 | 2.95 | 3.06 | 2.92 | 2.54 | 2.04 | 1.54 | 1.18 | 1.05 | 1.20 | 1.59 | 2.13 | 2.69 | 3.13 |
| 25 SEX | 3.33 | 3.22 | 2.83 | 2.24 | 1.60 | 1.08 | 0.79 | 0.80 | 1.12 | 1.67 | 2.30 | 2.87 | 3.23 | 3.29 | 3.02 | 2.50 | 1.86 | 1.27 | 0.89 | 0.82 | 1.08 | 1.61 | 2.28 | 2.93 |
| 26 SAB | 3.40 | 3.55 | 3.34 | 2.81 | 2.09 | 1.36 | 0.81 | 0.57 | 0.70 | 1.16 | 1.83 | 2.56 | 3.16 | 3.48 | 3.43 | 3.02 | 2.36 | 1.61 | 0.98 | 0.63 | 0.66 | 1.05 | 1.70 | 2.47 |
| 27 DOM | 3.17 | 3.61 | 3.68 | 3.35 | 2.69 | 1.88 | 1.12 | 0.60 | 0.46 | 0.72 | 1.31 | 2.08 | 2.84 | 3.41 | 3.64 | 3.46 | 2.92 | 2.15 | 1.35 | 0.74 | 0.47 | 0.61 | 1.11 | 1.85 |
| 28 SEG | 2.66 | 3.34 | 3.71 | 3.68 | 3.24 | 2.50 | 1.66 | 0.93 | 0.51 | 0.49 | 0.87 | 1.54 | 2.34 | 3.07 | 3.57 | 3.68 | 3.38 | 2.74 | 1.92 | 1.14 | 0.60 | 0.43 | 0.67 | 1.24 |
| 29 TER | 2.01 | 2.79 | 3.41 | 3.69 | 3.56 | 3.05 | 2.29 | 1.48 | 0.85 | 0.55 | 0.65 | 1.11 | 1.80 | 2.56 | 3.22 | 3.60 | 3.60 | 3.22 | 2.54 | 1.74 | 1.03 | 0.59 | 0.52 | 0.82 |
| 30 QUA | 1.40 | 2.13 | 2.84 | 3.35 | 3.53 | 3.33 | 2.81 | 2.09 | 1.39 | 0.89 | 0.71 | 0.90 | 1.38 | 2.02 | 2.70 | 3.25 | 3.52 | 3.44 | 3.02 | 2.36 | 1.64 | 1.04 | 0.70 | 0.70 |

Barra de Lisboa (Cascais)

Latitude 38° 41.59' N Longitude 9° 24.92' W

Horas do Fuso: 0 (TU)

MAIO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 QUI | 1.01 | 1.54 | 2.18 | 2.78 | 3.18 | 3.29 | 3.06 | 2.58 | 1.96 | 1.40 | 1.03 | 0.95 | 1.17 | 1.61 | 2.17 | 2.74 | 3.17 | 3.35 | 3.23 | 2.83 | 2.25 | 1.64 | 1.16 | 0.90 |
| 02 SEX | 0.92 | 1.19 | 1.64 | 2.16 | 2.64 | 2.95 | 3.01 | 2.81 | 2.41 | 1.92 | 1.49 | 1.24 | 1.21 | 1.41 | 1.77 | 2.23 | 2.68 | 3.02 | 3.15 | 3.03 | 2.70 | 2.23 | 1.74 | 1.34 |
| 03 SÁB | 1.13 | 1.14 | 1.33 | 1.67 | 2.08 | 2.46 | 2.71 | 2.77 | 2.62 | 2.33 | 1.97 | 1.64 | 1.45 | 1.42 | 1.56 | 1.83 | 2.19 | 2.55 | 2.83 | 2.96 | 2.89 | 2.64 | 2.28 | 1.88 |
| 04 DOM | 1.54 | 1.34 | 1.29 | 1.41 | 1.65 | 1.97 | 2.29 | 2.52 | 2.61 | 2.54 | 2.34 | 2.06 | 1.80 | 1.61 | 1.55 | 1.62 | 1.81 | 2.09 | 2.41 | 2.68 | 2.83 | 2.82 | 2.65 | 2.37 |
| 05 SEG | 2.02 | 1.70 | 1.46 | 1.36 | 1.41 | 1.59 | 1.87 | 2.17 | 2.42 | 2.56 | 2.55 | 2.41 | 2.17 | 1.91 | 1.69 | 1.57 | 1.58 | 1.73 | 1.98 | 2.29 | 2.58 | 2.78 | 2.83 | 2.71 |
| 06 TER | 2.45 | 2.11 | 1.76 | 1.49 | 1.35 | 1.36 | 1.53 | 1.82 | 2.15 | 2.44 | 2.62 | 2.64 | 2.50 | 2.24 | 1.94 | 1.67 | 1.51 | 1.49 | 1.63 | 1.91 | 2.25 | 2.58 | 2.81 | 2.88 |
| 07 QUA | 2.77 | 2.48 | 2.11 | 1.72 | 1.42 | 1.27 | 1.31 | 1.52 | 1.85 | 2.23 | 2.56 | 2.75 | 2.75 | 2.56 | 2.24 | 1.87 | 1.56 | 1.38 | 1.39 | 1.57 | 1.90 | 2.30 | 2.66 | 2.90 |
| 08 QUI | 2.95 | 2.78 | 2.44 | 2.01 | 1.59 | 1.29 | 1.18 | 1.28 | 1.57 | 1.98 | 2.41 | 2.74 | 2.90 | 2.83 | 2.55 | 2.15 | 1.73 | 1.40 | 1.25 | 1.32 | 1.58 | 1.98 | 2.42 | 2.80 |
| 09 SEX | 3.01 | 2.99 | 2.73 | 2.31 | 1.82 | 1.39 | 1.14 | 1.11 | 1.32 | 1.71 | 2.19 | 2.64 | 2.94 | 3.02 | 2.84 | 2.46 | 1.98 | 1.53 | 1.22 | 1.15 | 1.31 | 1.67 | 2.14 | 2.61 |
| 10 SÁB | 2.96 | 3.09 | 2.96 | 2.60 | 2.09 | 1.58 | 1.19 | 1.02 | 1.12 | 1.46 | 1.94 | 2.46 | 2.89 | 3.11 | 3.06 | 2.76 | 2.28 | 1.75 | 1.31 | 1.08 | 1.11 | 1.39 | 1.84 | 2.35 |
| 11 DOM | 2.81 | 3.08 | 3.10 | 2.84 | 2.38 | 1.83 | 1.33 | 1.03 | 0.99 | 1.23 | 1.68 | 2.22 | 2.73 | 3.09 | 3.19 | 3.00 | 2.58 | 2.03 | 1.49 | 1.12 | 1.00 | 1.16 | 1.55 | 2.06 |
| 12 SEG | 2.58 | 2.97 | 3.14 | 3.02 | 2.65 | 2.12 | 1.56 | 1.14 | 0.96 | 1.07 | 1.43 | 1.96 | 2.52 | 2.97 | 3.22 | 3.17 | 2.85 | 2.34 | 1.76 | 1.27 | 1.00 | 1.01 | 1.30 | 1.76 |
| 13 TER | 2.30 | 2.77 | 3.07 | 3.10 | 2.86 | 2.40 | 1.84 | 1.33 | 1.02 | 0.99 | 1.24 | 1.70 | 2.25 | 2.78 | 3.14 | 3.24 | 3.06 | 2.63 | 2.06 | 1.51 | 1.11 | 0.97 | 1.11 | 1.49 |
| 14 QUA | 1.99 | 2.50 | 2.90 | 3.08 | 2.98 | 2.64 | 2.13 | 1.60 | 1.19 | 1.01 | 1.12 | 1.47 | 1.98 | 2.52 | 2.96 | 3.21 | 3.18 | 2.88 | 2.38 | 1.82 | 1.33 | 1.05 | 1.03 | 1.27 |
| 15 QUI | 1.70 | 2.20 | 2.65 | 2.94 | 3.00 | 2.80 | 2.39 | 1.89 | 1.43 | 1.14 | 1.10 | 1.31 | 1.72 | 2.23 | 2.71 | 3.06 | 3.18 | 3.04 | 2.66 | 2.15 | 1.63 | 1.24 | 1.07 | 1.15 |
| 16 SEX | 1.46 | 1.89 | 2.34 | 2.71 | 2.91 | 2.86 | 2.60 | 2.18 | 1.72 | 1.35 | 1.18 | 1.24 | 1.52 | 1.94 | 2.41 | 2.81 | 3.06 | 3.09 | 2.87 | 2.47 | 1.98 | 1.53 | 1.23 | 1.15 |
| 17 SÁB | 1.30 | 1.62 | 2.02 | 2.42 | 2.71 | 2.81 | 2.71 | 2.42 | 2.03 | 1.64 | 1.37 | 1.28 | 1.40 | 1.70 | 2.09 | 2.50 | 2.83 | 3.00 | 2.96 | 2.72 | 2.33 | 1.89 | 1.51 | 1.28 |
| 18 DOM | 1.26 | 1.42 | 1.72 | 2.08 | 2.42 | 2.65 | 2.71 | 2.59 | 2.32 | 1.97 | 1.65 | 1.44 | 1.40 | 1.53 | 1.80 | 2.15 | 2.51 | 2.79 | 2.92 | 2.86 | 2.62 | 2.26 | 1.87 | 1.54 |
| 19 SEG | 1.35 | 1.34 | 1.48 | 1.75 | 2.07 | 2.37 | 2.58 | 2.63 | 2.53 | 2.30 | 2.00 | 1.72 | 1.53 | 1.49 | 1.59 | 1.82 | 2.13 | 2.46 | 2.73 | 2.85 | 2.81 | 2.60 | 2.27 | 1.91 |
| 20 TER | 1.59 | 1.39 | 1.35 | 1.47 | 1.70 | 2.01 | 2.31 | 2.54 | 2.63 | 2.56 | 2.36 | 2.08 | 1.80 | 1.59 | 1.50 | 1.57 | 1.77 | 2.07 | 2.40 | 2.69 | 2.85 | 2.84 | 2.66 | 2.34 |
| 21 QUA | 1.96 | 1.61 | 1.37 | 1.29 | 1.38 | 1.61 | 1.94 | 2.29 | 2.56 | 2.70 | 2.67 | 2.48 | 2.18 | 1.84 | 1.57 | 1.43 | 1.46 | 1.66 | 1.98 | 2.36 | 2.71 | 2.92 | 2.94 | 2.76 |
| 22 QUI | 2.42 | 1.99 | 1.57 | 1.28 | 1.16 | 1.24 | 1.51 | 1.90 | 2.32 | 2.67 | 2.85 | 2.83 | 2.61 | 2.24 | 1.82 | 1.48 | 1.29 | 1.30 | 1.53 | 1.91 | 2.37 | 2.79 | 3.05 | 3.09 |
| 23 SEX | 2.89 | 2.48 | 1.96 | 1.47 | 1.12 | 0.99 | 1.11 | 1.45 | 1.93 | 2.43 | 2.84 | 3.05 | 3.00 | 2.71 | 2.24 | 1.73 | 1.31 | 1.09 | 1.13 | 1.41 | 1.88 | 2.43 | 2.92 | 3.22 |
| 24 SÁB | 3.25 | 2.98 | 2.49 | 1.89 | 1.33 | 0.95 | 0.84 | 1.02 | 1.45 | 2.03 | 2.61 | 3.06 | 3.25 | 3.14 | 2.75 | 2.18 | 1.57 | 1.10 | 0.88 | 0.97 | 1.34 | 1.90 | 2.53 | 3.07 |
| 25 DOM | 3.38 | 3.36 | 3.03 | 2.44 | 1.76 | 1.16 | 0.79 | 0.73 | 1.00 | 1.53 | 2.19 | 2.83 | 3.27 | 3.42 | 3.22 | 2.72 | 2.05 | 1.39 | 0.90 | 0.71 | 0.86 | 1.31 | 1.96 | 2.65 |
| 26 SEG | 3.21 | 3.49 | 3.42 | 3.00 | 2.34 | 1.62 | 1.01 | 0.68 | 0.70 | 1.06 | 1.67 | 2.39 | 3.04 | 3.45 | 3.52 | 3.23 | 2.64 | 1.90 | 1.21 | 0.73 | 0.60 | 0.82 | 1.34 | 2.04 |
| 27 TER | 2.75 | 3.29 | 3.53 | 3.39 | 2.91 | 2.21 | 1.48 | 0.91 | 0.65 | 0.76 | 1.20 | 1.86 | 2.59 | 3.20 | 3.56 | 3.55 | 3.17 | 2.52 | 1.75 | 1.07 | 0.64 | 0.57 | 0.85 | 1.42 |
| 28 QUA | 2.12 | 2.81 | 3.31 | 3.48 | 3.28 | 2.76 | 2.06 | 1.37 | 0.88 | 0.71 | 0.90 | 1.38 | 2.05 | 2.75 | 3.30 | 3.58 | 3.49 | 3.06 | 2.38 | 1.64 | 1.00 | 0.64 | 0.63 | 0.95 |
| 29 QUI | 1.51 | 2.19 | 2.82 | 3.24 | 3.35 | 3.11 | 2.59 | 1.93 | 1.32 | 0.92 | 0.84 | 1.08 | 1.58 | 2.21 | 2.84 | 3.32 | 3.52 | 3.38 | 2.92 | 2.27 | 1.57 | 1.02 | 0.73 | 0.76 |
| 30 SEX | 1.08 | 1.61 | 2.22 | 2.77 | 3.12 | 3.17 | 2.91 | 2.42 | 1.84 | 1.32 | 1.02 | 1.01 | 1.27 | 1.74 | 2.32 | 2.87 | 3.27 | 3.40 | 3.22 | 2.78 | 2.18 | 1.57 | 1.10 | 0.87 |
| 31 SÁB | 0.93 | 1.23 | 1.70 | 2.23 | 2.69 | 2.96 | 2.97 | 2.72 | 2.29 | 1.79 | 1.38 | 1.17 | 1.19 | 1.45 | 1.86 | 2.36 | 2.83 | 3.15 | 3.24 | 3.06 | 2.66 | 2.13 | 1.61 | 1.22 |

Barra de Lisboa (Cascais)

Latitude 38° 41.59' N Longitude 9° 24.92' W

Horas do Fuso: 0 (TU)

JUNHO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 DOM | 1.05 | 1.11 | 1.37 | 1.76 | 2.21 | 2.59 | 2.81 | 2.80 | 2.57 | 2.21 | 1.80 | 1.47 | 1.31 | 1.35 | 1.57 | 1.93 | 2.35 | 2.75 | 3.01 | 3.07 | 2.91 | 2.57 | 2.12 | 1.68 |
| 02 SEG | 1.36 | 1.21 | 1.25 | 1.47 | 1.80 | 2.18 | 2.50 | 2.68 | 2.67 | 2.49 | 2.19 | 1.85 | 1.57 | 1.44 | 1.46 | 1.64 | 1.94 | 2.31 | 2.64 | 2.87 | 2.93 | 2.80 | 2.51 | 2.13 |
| 03 TER | 1.75 | 1.46 | 1.33 | 1.35 | 1.53 | 1.82 | 2.15 | 2.44 | 2.60 | 2.61 | 2.47 | 2.21 | 1.91 | 1.65 | 1.51 | 1.52 | 1.66 | 1.92 | 2.25 | 2.55 | 2.77 | 2.83 | 2.73 | 2.48 |
| 04 QUA | 2.14 | 1.79 | 1.52 | 1.38 | 1.40 | 1.56 | 1.83 | 2.15 | 2.43 | 2.60 | 2.62 | 2.49 | 2.24 | 1.95 | 1.69 | 1.54 | 1.52 | 1.65 | 1.89 | 2.20 | 2.50 | 2.72 | 2.79 | 2.70 |
| 05 QUI | 2.46 | 2.12 | 1.78 | 1.51 | 1.38 | 1.40 | 1.58 | 1.86 | 2.19 | 2.48 | 2.66 | 2.68 | 2.54 | 2.27 | 1.95 | 1.67 | 1.50 | 1.48 | 1.61 | 1.87 | 2.19 | 2.50 | 2.73 | 2.80 |
| 06 SEX | 2.69 | 2.43 | 2.07 | 1.72 | 1.45 | 1.33 | 1.38 | 1.60 | 1.93 | 2.29 | 2.60 | 2.77 | 2.76 | 2.57 | 2.26 | 1.90 | 1.59 | 1.42 | 1.41 | 1.58 | 1.88 | 2.24 | 2.56 | 2.78 |
| 07 SÁB | 2.82 | 2.67 | 2.36 | 1.97 | 1.60 | 1.34 | 1.26 | 1.38 | 1.66 | 2.05 | 2.45 | 2.76 | 2.89 | 2.82 | 2.56 | 2.18 | 1.78 | 1.46 | 1.31 | 1.36 | 1.59 | 1.94 | 2.33 | 2.67 |
| 08 DOM | 2.86 | 2.84 | 2.62 | 2.25 | 1.82 | 1.45 | 1.22 | 1.21 | 1.42 | 1.79 | 2.23 | 2.64 | 2.92 | 2.99 | 2.83 | 2.49 | 2.04 | 1.61 | 1.31 | 1.22 | 1.34 | 1.65 | 2.06 | 2.47 |
| 09 SEG | 2.79 | 2.92 | 2.83 | 2.52 | 2.09 | 1.64 | 1.29 | 1.14 | 1.22 | 1.53 | 1.97 | 2.45 | 2.85 | 3.07 | 3.04 | 2.78 | 2.34 | 1.85 | 1.42 | 1.17 | 1.16 | 1.37 | 1.76 | 2.22 |
| 10 TER | 2.63 | 2.90 | 2.95 | 2.76 | 2.37 | 1.89 | 1.45 | 1.16 | 1.10 | 1.30 | 1.70 | 2.20 | 2.68 | 3.03 | 3.16 | 3.02 | 2.65 | 2.14 | 1.63 | 1.24 | 1.07 | 1.15 | 1.46 | 1.92 |
| 11 QUA | 2.39 | 2.78 | 2.98 | 2.93 | 2.64 | 2.18 | 1.69 | 1.28 | 1.08 | 1.14 | 1.44 | 1.92 | 2.44 | 2.90 | 3.17 | 3.18 | 2.93 | 2.47 | 1.92 | 1.42 | 1.09 | 1.02 | 1.21 | 1.60 |
| 12 QUI | 2.09 | 2.56 | 2.89 | 3.00 | 2.85 | 2.47 | 1.98 | 1.49 | 1.16 | 1.06 | 1.24 | 1.63 | 2.15 | 2.67 | 3.06 | 3.24 | 3.14 | 2.78 | 2.26 | 1.70 | 1.25 | 1.01 | 1.04 | 1.32 |
| 13 SEX | 1.77 | 2.27 | 2.70 | 2.96 | 2.96 | 2.72 | 2.28 | 1.78 | 1.35 | 1.10 | 1.11 | 1.38 | 1.83 | 2.36 | 2.84 | 3.16 | 3.24 | 3.04 | 2.61 | 2.06 | 1.52 | 1.14 | 0.99 | 1.12 |
| 14 SÁB | 1.46 | 1.93 | 2.42 | 2.79 | 2.96 | 2.88 | 2.57 | 2.11 | 1.63 | 1.26 | 1.11 | 1.21 | 1.54 | 2.02 | 2.53 | 2.96 | 3.20 | 3.18 | 2.91 | 2.44 | 1.88 | 1.39 | 1.09 | 1.03 |
| 15 DOM | 1.22 | 1.60 | 2.07 | 2.52 | 2.83 | 2.93 | 2.78 | 2.43 | 1.97 | 1.53 | 1.24 | 1.16 | 1.33 | 1.69 | 2.16 | 2.64 | 3.01 | 3.18 | 3.10 | 2.77 | 2.29 | 1.76 | 1.33 | 1.09 |
| 16 SEG | 1.09 | 1.32 | 1.71 | 2.16 | 2.57 | 2.83 | 2.87 | 2.69 | 2.33 | 1.89 | 1.50 | 1.26 | 1.24 | 1.43 | 1.79 | 2.25 | 2.69 | 3.01 | 3.13 | 3.00 | 2.66 | 2.19 | 1.69 | 1.31 |
| 17 TER | 1.12 | 1.16 | 1.40 | 1.78 | 2.21 | 2.58 | 2.80 | 2.82 | 2.62 | 2.27 | 1.87 | 1.51 | 1.31 | 1.31 | 1.50 | 1.85 | 2.28 | 2.69 | 2.98 | 3.07 | 2.93 | 2.59 | 2.13 | 1.67 |
| 18 QUA | 1.31 | 1.15 | 1.20 | 1.44 | 1.81 | 2.22 | 2.57 | 2.78 | 2.79 | 2.61 | 2.27 | 1.88 | 1.54 | 1.35 | 1.34 | 1.53 | 1.86 | 2.27 | 2.67 | 2.95 | 3.03 | 2.90 | 2.57 | 2.12 |
| 19 QUI | 1.67 | 1.33 | 1.16 | 1.21 | 1.44 | 1.80 | 2.21 | 2.57 | 2.79 | 2.81 | 2.64 | 2.31 | 1.92 | 1.57 | 1.36 | 1.33 | 1.50 | 1.82 | 2.23 | 2.63 | 2.92 | 3.02 | 2.90 | 2.59 |
| 20 SEX | 2.14 | 1.69 | 1.33 | 1.15 | 1.18 | 1.41 | 1.78 | 2.21 | 2.59 | 2.84 | 2.88 | 2.71 | 2.37 | 1.96 | 1.57 | 1.32 | 1.27 | 1.41 | 1.74 | 2.17 | 2.60 | 2.92 | 3.05 | 2.95 |
| 21 SÁB | 2.63 | 2.17 | 1.69 | 1.31 | 1.11 | 1.13 | 1.36 | 1.76 | 2.23 | 2.66 | 2.93 | 2.99 | 2.81 | 2.44 | 1.97 | 1.53 | 1.24 | 1.15 | 1.30 | 1.64 | 2.11 | 2.59 | 2.95 | 3.11 |
| 22 DOM | 3.02 | 2.68 | 2.20 | 1.68 | 1.26 | 1.04 | 1.06 | 1.33 | 1.77 | 2.29 | 2.77 | 3.07 | 3.13 | 2.91 | 2.48 | 1.95 | 1.45 | 1.11 | 1.01 | 1.17 | 1.55 | 2.07 | 2.60 | 3.01 |
| 23 SEG | 3.19 | 3.09 | 2.72 | 2.19 | 1.63 | 1.18 | 0.96 | 1.01 | 1.32 | 1.82 | 2.40 | 2.91 | 3.23 | 3.26 | 3.00 | 2.50 | 1.90 | 1.34 | 0.97 | 0.86 | 1.05 | 1.48 | 2.06 | 2.64 |
| 24 TER | 3.08 | 3.26 | 3.13 | 2.73 | 2.15 | 1.55 | 1.09 | 0.88 | 0.98 | 1.35 | 1.92 | 2.54 | 3.08 | 3.38 | 3.37 | 3.04 | 2.48 | 1.81 | 1.21 | 0.83 | 0.75 | 0.98 | 1.46 | 2.09 |
| 25 QUA | 2.70 | 3.15 | 3.31 | 3.14 | 2.68 | 2.06 | 1.45 | 1.00 | 0.83 | 0.99 | 1.43 | 2.04 | 2.70 | 3.23 | 3.50 | 3.43 | 3.04 | 2.41 | 1.70 | 1.09 | 0.72 | 0.68 | 0.97 | 1.50 |
| 26 QUI | 2.15 | 2.77 | 3.19 | 3.31 | 3.08 | 2.58 | 1.94 | 1.34 | 0.93 | 0.83 | 1.06 | 1.55 | 2.20 | 2.85 | 3.35 | 3.56 | 3.42 | 2.97 | 2.30 | 1.58 | 0.99 | 0.68 | 0.70 | 1.03 |
| 27 SEX | 1.59 | 2.24 | 2.83 | 3.20 | 3.25 | 2.97 | 2.44 | 1.80 | 1.24 | 0.91 | 0.89 | 1.18 | 1.70 | 2.35 | 2.97 | 3.41 | 3.55 | 3.34 | 2.84 | 2.16 | 1.47 | 0.95 | 0.71 | 0.79 |
| 28 SÁB | 1.16 | 1.72 | 2.34 | 2.87 | 3.16 | 3.13 | 2.80 | 2.27 | 1.67 | 1.18 | 0.94 | 1.00 | 1.34 | 1.87 | 2.48 | 3.04 | 3.39 | 3.45 | 3.19 | 2.67 | 2.02 | 1.40 | 0.96 | 0.81 |
| 29 DOM | 0.96 | 1.34 | 1.88 | 2.43 | 2.87 | 3.07 | 2.97 | 2.62 | 2.10 | 1.57 | 1.18 | 1.03 | 1.15 | 1.51 | 2.02 | 2.57 | 3.04 | 3.31 | 3.29 | 3.00 | 2.49 | 1.90 | 1.37 | 1.04 |
| 30 SEG | 0.97 | 1.15 | 1.53 | 2.02 | 2.49 | 2.83 | 2.94 | 2.80 | 2.44 | 1.97 | 1.53 | 1.23 | 1.16 | 1.33 | 1.68 | 2.14 | 2.62 | 2.99 | 3.17 | 3.09 | 2.79 | 2.32 | 1.81 | 1.39 |

Barra de Lisboa (Cascais)

Latitude 38° 41.59' N Longitude 9° 24.92' W

Horas do Fuso: 0 (TU)

JULHO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 01 TER | 1.15 | 1.15 | 1.35 | 1.71 | 2.13 | 2.51 | 2.76 | 2.80 | 2.64 | 2.30 | 1.90 | 1.54 | 1.33 | 1.31 | 1.49 | 1.81 | 2.21 | 2.60 | 2.89 | 2.99 | 2.89 | 2.60 | 2.19 | 1.77 |
| 02 QUA | 1.44 | 1.28 | 1.32 | 1.52 | 1.83 | 2.19 | 2.50 | 2.68 | 2.69 | 2.52 | 2.23 | 1.89 | 1.60 | 1.44 | 1.45 | 1.61 | 1.89 | 2.23 | 2.54 | 2.76 | 2.83 | 2.72 | 2.46 | 2.11 |
| 03 QUI | 1.77 | 1.51 | 1.40 | 1.44 | 1.63 | 1.90 | 2.21 | 2.47 | 2.62 | 2.62 | 2.47 | 2.22 | 1.92 | 1.68 | 1.54 | 1.55 | 1.68 | 1.92 | 2.20 | 2.47 | 2.65 | 2.70 | 2.60 | 2.38 |
| 04 SEX | 2.08 | 1.78 | 1.56 | 1.47 | 1.51 | 1.68 | 1.93 | 2.21 | 2.46 | 2.60 | 2.61 | 2.48 | 2.25 | 1.97 | 1.74 | 1.59 | 1.58 | 1.69 | 1.89 | 2.15 | 2.40 | 2.58 | 2.63 | 2.55 |
| 05 SÁB | 2.35 | 2.07 | 1.79 | 1.58 | 1.48 | 1.52 | 1.68 | 1.94 | 2.23 | 2.49 | 2.64 | 2.66 | 2.53 | 2.29 | 2.00 | 1.75 | 1.58 | 1.55 | 1.64 | 1.85 | 2.11 | 2.37 | 2.57 | 2.63 |
| 06 DOM | 2.56 | 2.35 | 2.06 | 1.77 | 1.54 | 1.44 | 1.49 | 1.68 | 1.97 | 2.29 | 2.57 | 2.73 | 2.74 | 2.58 | 2.31 | 1.98 | 1.69 | 1.50 | 1.46 | 1.57 | 1.81 | 2.11 | 2.41 | 2.62 |
| 07 SEG | 2.68 | 2.58 | 2.34 | 2.02 | 1.70 | 1.46 | 1.37 | 1.45 | 1.69 | 2.04 | 2.41 | 2.71 | 2.86 | 2.83 | 2.61 | 2.27 | 1.90 | 1.57 | 1.37 | 1.36 | 1.52 | 1.82 | 2.17 | 2.50 |
| 08 TER | 2.71 | 2.75 | 2.60 | 2.30 | 1.93 | 1.57 | 1.34 | 1.29 | 1.44 | 1.76 | 2.17 | 2.58 | 2.88 | 2.99 | 2.89 | 2.59 | 2.17 | 1.74 | 1.39 | 1.22 | 1.27 | 1.51 | 1.88 | 2.29 |
| 09 QUA | 2.64 | 2.83 | 2.81 | 2.59 | 2.21 | 1.78 | 1.41 | 1.21 | 1.23 | 1.48 | 1.89 | 2.36 | 2.79 | 3.06 | 3.10 | 2.90 | 2.50 | 2.00 | 1.53 | 1.20 | 1.09 | 1.22 | 1.56 | 2.01 |
| 10 QUI | 2.47 | 2.81 | 2.94 | 2.84 | 2.51 | 2.06 | 1.59 | 1.24 | 1.10 | 1.22 | 1.58 | 2.07 | 2.59 | 3.01 | 3.21 | 3.16 | 2.84 | 2.34 | 1.78 | 1.30 | 1.02 | 1.00 | 1.25 | 1.68 |
| 11 SEX | 2.19 | 2.66 | 2.96 | 3.01 | 2.80 | 2.38 | 1.86 | 1.39 | 1.09 | 1.04 | 1.28 | 1.73 | 2.29 | 2.82 | 3.20 | 3.32 | 3.15 | 2.72 | 2.14 | 1.54 | 1.09 | 0.89 | 0.98 | 1.33 |
| 12 SÁB | 1.85 | 2.40 | 2.84 | 3.07 | 3.02 | 2.71 | 2.20 | 1.65 | 1.20 | 0.98 | 1.05 | 1.39 | 1.92 | 2.52 | 3.03 | 3.34 | 3.36 | 3.07 | 2.54 | 1.91 | 1.32 | 0.93 | 0.83 | 1.04 |
| 13 DOM | 1.48 | 2.04 | 2.59 | 2.99 | 3.13 | 2.98 | 2.56 | 2.01 | 1.46 | 1.06 | 0.94 | 1.12 | 1.54 | 2.12 | 2.72 | 3.19 | 3.41 | 3.32 | 2.94 | 2.34 | 1.69 | 1.14 | 0.84 | 0.85 |
| 14 SEG | 1.15 | 1.65 | 2.23 | 2.75 | 3.07 | 3.12 | 2.87 | 2.40 | 1.83 | 1.31 | 1.00 | 0.97 | 1.23 | 1.71 | 2.31 | 2.87 | 3.28 | 3.41 | 3.22 | 2.77 | 2.14 | 1.51 | 1.04 | 0.83 |
| 15 TER | 0.93 | 1.29 | 1.82 | 2.38 | 2.85 | 3.09 | 3.05 | 2.74 | 2.24 | 1.69 | 1.23 | 1.00 | 1.05 | 1.37 | 1.87 | 2.44 | 2.96 | 3.28 | 3.33 | 3.08 | 2.59 | 1.98 | 1.40 | 1.01 |
| 16 QUA | 0.89 | 1.06 | 1.45 | 1.96 | 2.48 | 2.88 | 3.05 | 2.95 | 2.62 | 2.12 | 1.61 | 1.23 | 1.07 | 1.17 | 1.50 | 1.98 | 2.51 | 2.96 | 3.22 | 3.21 | 2.93 | 2.45 | 1.88 | 1.37 |
| 17 QUI | 1.06 | 1.00 | 1.19 | 1.57 | 2.05 | 2.51 | 2.85 | 2.98 | 2.85 | 2.52 | 2.07 | 1.61 | 1.28 | 1.16 | 1.28 | 1.59 | 2.03 | 2.50 | 2.90 | 3.11 | 3.07 | 2.80 | 2.36 | 1.85 |
| 18 SEX | 1.41 | 1.15 | 1.12 | 1.31 | 1.65 | 2.08 | 2.49 | 2.79 | 2.90 | 2.79 | 2.49 | 2.07 | 1.66 | 1.37 | 1.25 | 1.35 | 1.62 | 2.01 | 2.43 | 2.78 | 2.98 | 2.96 | 2.73 | 2.34 |
| 19 SÁB | 1.89 | 1.50 | 1.26 | 1.22 | 1.37 | 1.67 | 2.06 | 2.45 | 2.74 | 2.86 | 2.78 | 2.52 | 2.14 | 1.75 | 1.45 | 1.31 | 1.35 | 1.57 | 1.91 | 2.30 | 2.65 | 2.87 | 2.90 | 2.72 |
| 20 DOM | 2.38 | 1.97 | 1.59 | 1.34 | 1.27 | 1.37 | 1.64 | 2.01 | 2.41 | 2.73 | 2.89 | 2.85 | 2.61 | 2.25 | 1.84 | 1.50 | 1.30 | 1.28 | 1.45 | 1.76 | 2.17 | 2.55 | 2.82 | 2.90 |
| 21 SEG | 2.77 | 2.47 | 2.06 | 1.66 | 1.36 | 1.24 | 1.32 | 1.58 | 1.97 | 2.41 | 2.78 | 2.99 | 2.98 | 2.75 | 2.35 | 1.89 | 1.48 | 1.21 | 1.14 | 1.29 | 1.62 | 2.06 | 2.51 | 2.84 |
| 22 TER | 2.97 | 2.87 | 2.55 | 2.11 | 1.66 | 1.31 | 1.16 | 1.23 | 1.52 | 1.96 | 2.46 | 2.89 | 3.14 | 3.14 | 2.88 | 2.42 | 1.89 | 1.39 | 1.06 | 0.97 | 1.13 | 1.51 | 2.03 | 2.54 |
| 23 QUA | 2.93 | 3.08 | 2.96 | 2.60 | 2.10 | 1.58 | 1.20 | 1.04 | 1.15 | 1.50 | 2.02 | 2.59 | 3.06 | 3.32 | 3.29 | 2.96 | 2.43 | 1.80 | 1.25 | 0.89 | 0.82 | 1.04 | 1.49 | 2.08 |
| 24 QUI | 2.65 | 3.05 | 3.18 | 3.01 | 2.57 | 2.00 | 1.44 | 1.05 | 0.93 | 1.11 | 1.54 | 2.14 | 2.77 | 3.25 | 3.48 | 3.38 | 2.97 | 2.34 | 1.65 | 1.07 | 0.74 | 0.73 | 1.03 | 1.57 |
| 25 SEX | 2.21 | 2.80 | 3.17 | 3.24 | 2.97 | 2.46 | 1.83 | 1.26 | 0.91 | 0.87 | 1.14 | 1.67 | 2.32 | 2.96 | 3.42 | 3.57 | 3.37 | 2.87 | 2.17 | 1.46 | 0.91 | 0.66 | 0.75 | 1.14 |
| 26 SÁB | 1.74 | 2.40 | 2.95 | 3.25 | 3.21 | 2.85 | 2.27 | 1.62 | 1.09 | 0.82 | 0.89 | 1.27 | 1.86 | 2.53 | 3.13 | 3.51 | 3.56 | 3.26 | 2.67 | 1.95 | 1.27 | 0.81 | 0.68 | 0.88 |
| 27 DOM | 1.34 | 1.97 | 2.59 | 3.06 | 3.24 | 3.09 | 2.65 | 2.03 | 1.42 | 0.98 | 0.83 | 1.01 | 1.46 | 2.08 | 2.72 | 3.24 | 3.51 | 3.44 | 3.04 | 2.42 | 1.72 | 1.14 | 0.81 | 0.80 |
| 28 SEG | 1.10 | 1.61 | 2.20 | 2.75 | 3.10 | 3.15 | 2.90 | 2.40 | 1.81 | 1.27 | 0.96 | 0.94 | 1.21 | 1.70 | 2.29 | 2.86 | 3.26 | 3.39 | 3.21 | 2.76 | 2.15 | 1.54 | 1.08 | 0.90 |
| 29 TER | 1.01 | 1.37 | 1.87 | 2.40 | 2.84 | 3.05 | 2.99 | 2.67 | 2.17 | 1.64 | 1.22 | 1.04 | 1.13 | 1.45 | 1.93 | 2.46 | 2.91 | 3.18 | 3.19 | 2.93 | 2.47 | 1.92 | 1.43 | 1.12 |
| 30 QUA | 1.07 | 1.26 | 1.63 | 2.09 | 2.53 | 2.84 | 2.93 | 2.79 | 2.44 | 1.99 | 1.56 | 1.26 | 1.19 | 1.35 | 1.68 | 2.11 | 2.54 | 2.87 | 3.02 | 2.94 | 2.66 | 2.23 | 1.78 | 1.42 |
| 31 QUI | 1.24 | 1.27 | 1.50 | 1.84 | 2.23 | 2.57 | 2.77 | 2.78 | 2.60 | 2.28 | 1.90 | 1.57 | 1.38 | 1.38 | 1.55 | 1.85 | 2.20 | 2.53 | 2.76 | 2.82 | 2.70 | 2.43 | 2.08 | 1.73 |

Barra de Lisboa (Cascais)

Latitude 38° 41.59' N Longitude 9° 24.92' W

Horas do Fuso: 0 (TU)

AGOSTO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 SEX | 1.48 | 1.38 | 1.46 | 1.68 | 1.97 | 2.28 | 2.53 | 2.67 | 2.65 | 2.47 | 2.20 | 1.90 | 1.65 | 1.53 | 1.55 | 1.70 | 1.94 | 2.21 | 2.45 | 2.61 | 2.63 | 2.52 | 2.30 | 2.02 |
| 02 SAB | 1.76 | 1.58 | 1.52 | 1.60 | 1.77 | 2.01 | 2.26 | 2.47 | 2.58 | 2.56 | 2.43 | 2.21 | 1.97 | 1.76 | 1.65 | 1.65 | 1.75 | 1.93 | 2.14 | 2.33 | 2.47 | 2.51 | 2.43 | 2.26 |
| 03 DOM | 2.05 | 1.83 | 1.67 | 1.61 | 1.65 | 1.78 | 1.99 | 2.21 | 2.42 | 2.54 | 2.56 | 2.46 | 2.28 | 2.06 | 1.85 | 1.71 | 1.66 | 1.71 | 1.84 | 2.03 | 2.23 | 2.39 | 2.47 | 2.44 |
| 04 SEG | 2.31 | 2.11 | 1.90 | 1.72 | 1.62 | 1.62 | 1.73 | 1.93 | 2.18 | 2.42 | 2.58 | 2.64 | 2.56 | 2.37 | 2.12 | 1.87 | 1.67 | 1.57 | 1.59 | 1.73 | 1.95 | 2.19 | 2.40 | 2.52 |
| 05 TER | 2.52 | 2.39 | 2.17 | 1.91 | 1.68 | 1.54 | 1.52 | 1.65 | 1.90 | 2.21 | 2.50 | 2.71 | 2.78 | 2.68 | 2.44 | 2.12 | 1.80 | 1.54 | 1.41 | 1.45 | 1.63 | 1.92 | 2.24 | 2.51 |
| 06 QUA | 2.66 | 2.64 | 2.47 | 2.18 | 1.84 | 1.56 | 1.39 | 1.40 | 1.60 | 1.93 | 2.32 | 2.67 | 2.90 | 2.94 | 2.77 | 2.44 | 2.03 | 1.63 | 1.33 | 1.22 | 1.32 | 1.60 | 1.99 | 2.38 |
| 07 QUI | 2.69 | 2.83 | 2.75 | 2.48 | 2.09 | 1.68 | 1.36 | 1.22 | 1.30 | 1.60 | 2.05 | 2.52 | 2.91 | 3.11 | 3.08 | 2.80 | 2.35 | 1.83 | 1.38 | 1.09 | 1.05 | 1.26 | 1.66 | 2.15 |
| 08 SEX | 2.61 | 2.91 | 2.99 | 2.81 | 2.42 | 1.92 | 1.45 | 1.13 | 1.06 | 1.27 | 1.70 | 2.24 | 2.78 | 3.17 | 3.31 | 3.15 | 2.74 | 2.16 | 1.57 | 1.09 | 0.87 | 0.94 | 1.29 | 1.81 |
| 09 SAB | 2.39 | 2.86 | 3.12 | 3.09 | 2.78 | 2.26 | 1.68 | 1.19 | 0.93 | 0.97 | 1.31 | 1.87 | 2.50 | 3.06 | 3.40 | 3.44 | 3.14 | 2.59 | 1.90 | 1.27 | 0.84 | 0.72 | 0.93 | 1.42 |
| 10 DOM | 2.04 | 2.66 | 3.11 | 3.27 | 3.11 | 2.66 | 2.03 | 1.40 | 0.95 | 0.79 | 0.97 | 1.45 | 2.10 | 2.78 | 3.31 | 3.57 | 3.47 | 3.03 | 2.36 | 1.61 | 0.99 | 0.65 | 0.67 | 1.03 |
| 11 SEG | 1.62 | 2.30 | 2.91 | 3.28 | 3.33 | 3.03 | 2.46 | 1.77 | 1.16 | 0.78 | 0.75 | 1.06 | 1.64 | 2.35 | 3.02 | 3.49 | 3.63 | 3.40 | 2.84 | 2.09 | 1.35 | 0.80 | 0.59 | 0.74 |
| 12 TER | 1.21 | 1.86 | 2.55 | 3.09 | 3.36 | 3.28 | 2.87 | 2.23 | 1.54 | 0.98 | 0.72 | 0.81 | 1.23 | 1.87 | 2.57 | 3.19 | 3.56 | 3.57 | 3.23 | 2.60 | 1.85 | 1.16 | 0.73 | 0.64 |
| 13 QUA | 0.91 | 1.43 | 2.09 | 2.73 | 3.18 | 3.33 | 3.15 | 2.66 | 2.01 | 1.37 | 0.92 | 0.77 | 0.96 | 1.43 | 2.06 | 2.72 | 3.24 | 3.50 | 3.41 | 3.00 | 2.36 | 1.67 | 1.09 | 0.78 |
| 14 QUI | 0.81 | 1.13 | 1.66 | 2.27 | 2.81 | 3.16 | 3.21 | 2.96 | 2.47 | 1.86 | 1.31 | 0.97 | 0.91 | 1.15 | 1.61 | 2.19 | 2.75 | 3.17 | 3.33 | 3.19 | 2.77 | 2.19 | 1.59 | 1.14 |
| 15 SEX | 0.94 | 1.03 | 1.36 | 1.84 | 2.35 | 2.80 | 3.05 | 3.05 | 2.78 | 2.33 | 1.81 | 1.37 | 1.11 | 1.10 | 1.33 | 1.73 | 2.21 | 2.67 | 3.00 | 3.10 | 2.96 | 2.59 | 2.11 | 1.63 |
| 16 SAB | 1.29 | 1.16 | 1.25 | 1.53 | 1.92 | 2.35 | 2.70 | 2.90 | 2.89 | 2.67 | 2.30 | 1.87 | 1.51 | 1.29 | 1.27 | 1.44 | 1.74 | 2.12 | 2.50 | 2.77 | 2.88 | 2.78 | 2.51 | 2.13 |
| 17 DOM | 1.76 | 1.48 | 1.36 | 1.41 | 1.61 | 1.91 | 2.26 | 2.57 | 2.77 | 2.80 | 2.65 | 2.37 | 2.01 | 1.69 | 1.46 | 1.38 | 1.45 | 1.65 | 1.95 | 2.28 | 2.56 | 2.71 | 2.70 | 2.53 |
| 18 SEG | 2.24 | 1.92 | 1.65 | 1.49 | 1.47 | 1.58 | 1.82 | 2.14 | 2.46 | 2.71 | 2.81 | 2.74 | 2.52 | 2.19 | 1.84 | 1.55 | 1.38 | 1.35 | 1.48 | 1.75 | 2.09 | 2.42 | 2.66 | 2.73 |
| 19 TER | 2.63 | 2.39 | 2.06 | 1.74 | 1.51 | 1.41 | 1.47 | 1.70 | 2.04 | 2.42 | 2.75 | 2.93 | 2.91 | 2.70 | 2.35 | 1.92 | 1.54 | 1.27 | 1.18 | 1.29 | 1.58 | 1.99 | 2.40 | 2.72 |
| 20 QUA | 2.85 | 2.78 | 2.51 | 2.12 | 1.72 | 1.41 | 1.26 | 1.32 | 1.59 | 2.01 | 2.49 | 2.89 | 3.12 | 3.11 | 2.86 | 2.42 | 1.89 | 1.41 | 1.08 | 0.98 | 1.14 | 1.51 | 2.00 | 2.50 |
| 21 QUI | 2.87 | 3.02 | 2.90 | 2.55 | 2.07 | 1.58 | 1.22 | 1.08 | 1.20 | 1.57 | 2.09 | 2.65 | 3.10 | 3.33 | 3.26 | 2.92 | 2.37 | 1.75 | 1.20 | 0.88 | 0.83 | 1.08 | 1.56 | 2.15 |
| 22 SEX | 2.70 | 3.07 | 3.15 | 2.94 | 2.48 | 1.89 | 1.35 | 1.00 | 0.94 | 1.17 | 1.65 | 2.27 | 2.88 | 3.32 | 3.49 | 3.32 | 2.85 | 2.20 | 1.51 | 0.97 | 0.72 | 0.79 | 1.16 | 1.74 |
| 23 SAB | 2.39 | 2.93 | 3.23 | 3.21 | 2.86 | 2.28 | 1.64 | 1.11 | 0.83 | 0.88 | 1.25 | 1.83 | 2.51 | 3.12 | 3.50 | 3.55 | 3.25 | 2.66 | 1.93 | 1.25 | 0.79 | 0.66 | 0.87 | 1.37 |
| 24 DOM | 2.02 | 2.66 | 3.14 | 3.31 | 3.14 | 2.66 | 2.01 | 1.37 | 0.91 | 0.76 | 0.96 | 1.44 | 2.09 | 2.77 | 3.31 | 3.57 | 3.47 | 3.03 | 2.36 | 1.63 | 1.02 | 0.70 | 0.73 | 1.09 |
| 25 SEG | 1.67 | 2.33 | 2.91 | 3.26 | 3.28 | 2.96 | 2.39 | 1.72 | 1.14 | 0.81 | 0.82 | 1.15 | 1.71 | 2.37 | 2.99 | 3.40 | 3.50 | 3.26 | 2.72 | 2.03 | 1.36 | 0.89 | 0.75 | 0.94 |
| 26 TER | 1.39 | 2.00 | 2.61 | 3.07 | 3.26 | 3.12 | 2.69 | 2.08 | 1.46 | 1.01 | 0.84 | 1.00 | 1.42 | 2.01 | 2.61 | 3.11 | 3.37 | 3.31 | 2.95 | 2.37 | 1.72 | 1.18 | 0.89 | 0.91 |
| 27 QUA | 1.23 | 1.73 | 2.30 | 2.80 | 3.11 | 3.14 | 2.88 | 2.40 | 1.82 | 1.31 | 1.01 | 0.99 | 1.25 | 1.72 | 2.26 | 2.76 | 3.11 | 3.21 | 3.03 | 2.61 | 2.05 | 1.51 | 1.13 | 1.01 |
| 28 QUI | 1.17 | 1.54 | 2.02 | 2.50 | 2.87 | 3.04 | 2.94 | 2.62 | 2.14 | 1.65 | 1.27 | 1.12 | 1.22 | 1.53 | 1.97 | 2.42 | 2.80 | 3.00 | 2.98 | 2.72 | 2.30 | 1.83 | 1.43 | 1.21 |
| 29 SEX | 1.22 | 1.44 | 1.81 | 2.23 | 2.60 | 2.84 | 2.89 | 2.72 | 2.39 | 1.97 | 1.59 | 1.35 | 1.31 | 1.46 | 1.76 | 2.13 | 2.47 | 2.72 | 2.81 | 2.71 | 2.45 | 2.09 | 1.73 | 1.46 |
| 30 SAB | 1.36 | 1.45 | 1.68 | 1.99 | 2.32 | 2.59 | 2.73 | 2.71 | 2.53 | 2.24 | 1.92 | 1.65 | 1.50 | 1.51 | 1.65 | 1.90 | 2.17 | 2.41 | 2.57 | 2.60 | 2.49 | 2.27 | 2.00 | 1.75 |
| 31 DOM | 1.58 | 1.55 | 1.63 | 1.82 | 2.06 | 2.30 | 2.50 | 2.59 | 2.57 | 2.43 | 2.21 | 1.97 | 1.77 | 1.66 | 1.66 | 1.76 | 1.92 | 2.11 | 2.28 | 2.40 | 2.43 | 2.36 | 2.22 | 2.03 |

Barra de Lisboa (Cascais)

Latitude 38° 41.59' N Longitude 9° 24.92' W

Horas do Fuso: 0 (TU)

SETEMBRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 SEG | 1.85 | 1.73 | 1.69 | 1.73 | 1.85 | 2.03 | 2.22 | 2.39 | 2.50 | 2.51 | 2.43 | 2.28 | 2.08 | 1.90 | 1.77 | 1.72 | 1.74 | 1.83 | 1.97 | 2.14 | 2.27 | 2.35 | 2.35 | 2.28 |
| 02 TER | 2.14 | 1.98 | 1.84 | 1.74 | 1.72 | 1.78 | 1.92 | 2.12 | 2.32 | 2.48 | 2.56 | 2.54 | 2.41 | 2.21 | 1.99 | 1.79 | 1.65 | 1.61 | 1.67 | 1.83 | 2.04 | 2.24 | 2.40 | 2.46 |
| 03 QUA | 2.42 | 2.27 | 2.07 | 1.85 | 1.68 | 1.60 | 1.64 | 1.81 | 2.07 | 2.35 | 2.59 | 2.72 | 2.71 | 2.55 | 2.28 | 1.97 | 1.68 | 1.48 | 1.41 | 1.50 | 1.73 | 2.04 | 2.34 | 2.56 |
| 04 QUI | 2.65 | 2.58 | 2.37 | 2.06 | 1.75 | 1.50 | 1.40 | 1.49 | 1.74 | 2.10 | 2.49 | 2.79 | 2.94 | 2.89 | 2.64 | 2.26 | 1.83 | 1.45 | 1.22 | 1.19 | 1.38 | 1.73 | 2.16 | 2.55 |
| 05 SEX | 2.81 | 2.87 | 2.71 | 2.37 | 1.93 | 1.53 | 1.25 | 1.19 | 1.38 | 1.76 | 2.25 | 2.73 | 3.07 | 3.18 | 3.03 | 2.64 | 2.12 | 1.57 | 1.15 | 0.95 | 1.02 | 1.35 | 1.85 | 2.39 |
| 06 SÁB | 2.84 | 3.07 | 3.04 | 2.74 | 2.25 | 1.70 | 1.23 | 0.99 | 1.03 | 1.36 | 1.90 | 2.51 | 3.04 | 3.36 | 3.38 | 3.08 | 2.53 | 1.86 | 1.25 | 0.83 | 0.73 | 0.95 | 1.45 | 2.08 |
| 07 DOM | 2.70 | 3.14 | 3.30 | 3.12 | 2.66 | 2.02 | 1.38 | 0.93 | 0.77 | 0.96 | 1.45 | 2.13 | 2.82 | 3.35 | 3.60 | 3.48 | 3.01 | 2.31 | 1.54 | 0.91 | 0.58 | 0.62 | 1.01 | 1.65 |
| 08 SEG | 2.38 | 3.02 | 3.40 | 3.42 | 3.08 | 2.46 | 1.72 | 1.07 | 0.67 | 0.65 | 1.00 | 1.64 | 2.41 | 3.12 | 3.61 | 3.73 | 3.45 | 2.83 | 2.01 | 1.22 | 0.65 | 0.44 | 0.65 | 1.19 |
| 09 TER | 1.93 | 2.69 | 3.28 | 3.55 | 3.42 | 2.93 | 2.20 | 1.42 | 0.81 | 0.53 | 0.66 | 1.15 | 1.88 | 2.68 | 3.36 | 3.74 | 3.72 | 3.30 | 2.57 | 1.72 | 0.97 | 0.52 | 0.47 | 0.81 |
| 10 QUA | 1.45 | 2.22 | 2.94 | 3.43 | 3.56 | 3.29 | 2.69 | 1.92 | 1.18 | 0.67 | 0.54 | 0.79 | 1.37 | 2.12 | 2.88 | 3.46 | 3.72 | 3.57 | 3.05 | 2.29 | 1.49 | 0.85 | 0.55 | 0.64 |
| 11 QUI | 1.07 | 1.74 | 2.46 | 3.09 | 3.45 | 3.44 | 3.08 | 2.44 | 1.70 | 1.06 | 0.68 | 0.67 | 1.00 | 1.59 | 2.29 | 2.96 | 3.41 | 3.55 | 3.32 | 2.77 | 2.06 | 1.37 | 0.88 | 0.72 |
| 12 SEX | 0.90 | 1.36 | 1.98 | 2.60 | 3.10 | 3.33 | 3.24 | 2.84 | 2.24 | 1.60 | 1.08 | 0.83 | 0.89 | 1.23 | 1.76 | 2.36 | 2.89 | 3.23 | 3.28 | 3.02 | 2.53 | 1.93 | 1.39 | 1.05 |
| 13 SÁB | 0.99 | 1.20 | 1.61 | 2.12 | 2.62 | 2.99 | 3.14 | 3.01 | 2.65 | 2.15 | 1.63 | 1.23 | 1.06 | 1.13 | 1.41 | 1.83 | 2.29 | 2.70 | 2.96 | 2.98 | 2.77 | 2.38 | 1.93 | 1.54 |
| 14 DOM | 1.30 | 1.28 | 1.44 | 1.75 | 2.14 | 2.52 | 2.81 | 2.92 | 2.83 | 2.56 | 2.18 | 1.78 | 1.46 | 1.30 | 1.32 | 1.49 | 1.78 | 2.12 | 2.45 | 2.67 | 2.73 | 2.61 | 2.36 | 2.04 |
| 15 SEG | 1.75 | 1.55 | 1.50 | 1.58 | 1.77 | 2.05 | 2.36 | 2.62 | 2.76 | 2.75 | 2.59 | 2.32 | 1.99 | 1.70 | 1.49 | 1.41 | 1.46 | 1.64 | 1.90 | 2.20 | 2.45 | 2.59 | 2.58 | 2.45 |
| 16 TER | 2.22 | 1.95 | 1.73 | 1.59 | 1.57 | 1.68 | 1.90 | 2.19 | 2.49 | 2.71 | 2.80 | 2.73 | 2.52 | 2.20 | 1.86 | 1.57 | 1.38 | 1.33 | 1.44 | 1.70 | 2.03 | 2.35 | 2.59 | 2.68 |
| 17 QUA | 2.60 | 2.38 | 2.08 | 1.78 | 1.55 | 1.45 | 1.52 | 1.74 | 2.09 | 2.46 | 2.78 | 2.95 | 2.92 | 2.70 | 2.33 | 1.90 | 1.51 | 1.24 | 1.15 | 1.27 | 1.58 | 1.99 | 2.41 | 2.72 |
| 18 QUI | 2.84 | 2.75 | 2.48 | 2.08 | 1.69 | 1.39 | 1.26 | 1.35 | 1.65 | 2.09 | 2.56 | 2.95 | 3.15 | 3.10 | 2.81 | 2.34 | 1.80 | 1.33 | 1.04 | 0.98 | 1.18 | 1.59 | 2.11 | 2.59 |
| 19 SEX | 2.92 | 3.01 | 2.84 | 2.45 | 1.95 | 1.48 | 1.16 | 1.08 | 1.26 | 1.68 | 2.22 | 2.76 | 3.17 | 3.33 | 3.19 | 2.78 | 2.20 | 1.59 | 1.10 | 0.85 | 0.90 | 1.23 | 1.75 | 2.34 |
| 20 SÁB | 2.85 | 3.13 | 3.12 | 2.81 | 2.29 | 1.71 | 1.21 | 0.95 | 0.97 | 1.29 | 1.82 | 2.45 | 3.01 | 3.37 | 3.43 | 3.15 | 2.61 | 1.94 | 1.31 | 0.88 | 0.75 | 0.95 | 1.41 | 2.03 |
| 21 DOM | 2.65 | 3.10 | 3.27 | 3.11 | 2.65 | 2.03 | 1.41 | 0.97 | 0.82 | 0.99 | 1.45 | 2.07 | 2.72 | 3.24 | 3.49 | 3.39 | 2.97 | 2.32 | 1.62 | 1.04 | 0.73 | 0.78 | 1.13 | 1.71 |
| 22 SEG | 2.37 | 2.94 | 3.28 | 3.29 | 2.96 | 2.39 | 1.72 | 1.14 | 0.81 | 0.82 | 1.15 | 1.71 | 2.37 | 2.98 | 3.39 | 3.48 | 3.22 | 2.67 | 1.97 | 1.30 | 0.85 | 0.72 | 0.94 | 1.43 |
| 23 TER | 2.07 | 2.70 | 3.16 | 3.34 | 3.18 | 2.71 | 2.07 | 1.42 | 0.94 | 0.78 | 0.95 | 1.40 | 2.02 | 2.65 | 3.16 | 3.41 | 3.33 | 2.93 | 2.31 | 1.63 | 1.07 | 0.79 | 0.85 | 1.22 |
| 24 QUA | 1.78 | 2.41 | 2.94 | 3.26 | 3.26 | 2.95 | 2.39 | 1.75 | 1.20 | 0.88 | 0.88 | 1.19 | 1.71 | 2.31 | 2.86 | 3.22 | 3.30 | 3.07 | 2.57 | 1.95 | 1.36 | 0.97 | 0.88 | 1.10 |
| 25 QUI | 1.56 | 2.13 | 2.68 | 3.07 | 3.22 | 3.07 | 2.66 | 2.08 | 1.51 | 1.10 | 0.95 | 1.09 | 1.48 | 2.01 | 2.53 | 2.95 | 3.15 | 3.08 | 2.74 | 2.23 | 1.67 | 1.23 | 1.02 | 1.09 |
| 26 SEX | 1.41 | 1.88 | 2.40 | 2.83 | 3.08 | 3.07 | 2.82 | 2.37 | 1.84 | 1.39 | 1.13 | 1.12 | 1.36 | 1.76 | 2.22 | 2.64 | 2.92 | 2.98 | 2.80 | 2.43 | 1.96 | 1.52 | 1.24 | 1.18 |
| 27 SÁB | 1.35 | 1.70 | 2.14 | 2.55 | 2.85 | 2.97 | 2.86 | 2.56 | 2.14 | 1.71 | 1.39 | 1.26 | 1.34 | 1.60 | 1.96 | 2.33 | 2.63 | 2.78 | 2.74 | 2.53 | 2.18 | 1.81 | 1.51 | 1.36 |
| 28 DOM | 1.40 | 1.61 | 1.93 | 2.28 | 2.58 | 2.77 | 2.80 | 2.66 | 2.37 | 2.03 | 1.71 | 1.50 | 1.44 | 1.55 | 1.77 | 2.05 | 2.32 | 2.52 | 2.59 | 2.52 | 2.33 | 2.06 | 1.79 | 1.60 |
| 29 SEG | 1.54 | 1.61 | 1.79 | 2.03 | 2.29 | 2.51 | 2.64 | 2.64 | 2.51 | 2.29 | 2.03 | 1.80 | 1.65 | 1.61 | 1.68 | 1.83 | 2.03 | 2.21 | 2.36 | 2.41 | 2.37 | 2.24 | 2.07 | 1.89 |
| 30 TER | 1.75 | 1.70 | 1.74 | 1.85 | 2.02 | 2.21 | 2.39 | 2.51 | 2.54 | 2.47 | 2.32 | 2.13 | 1.93 | 1.78 | 1.70 | 1.70 | 1.77 | 1.91 | 2.07 | 2.22 | 2.32 | 2.34 | 2.29 | 2.18 |

Barra de Lisboa (Cascais)

Latitude 38° 41.59' N Longitude 9° 24.92' W

Horas do Fuso: 0 (TU)

OUTUBRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 QUA | 2.03 | 1.89 | 1.79 | 1.75 | 1.79 | 1.91 | 2.08 | 2.28 | 2.46 | 2.55 | 2.55 | 2.45 | 2.27 | 2.04 | 1.83 | 1.67 | 1.59 | 1.62 | 1.74 | 1.94 | 2.16 | 2.34 | 2.45 | 2.45 |
| 02 QUI | 2.35 | 2.16 | 1.95 | 1.76 | 1.64 | 1.63 | 1.75 | 1.97 | 2.25 | 2.51 | 2.69 | 2.73 | 2.63 | 2.39 | 2.08 | 1.76 | 1.51 | 1.38 | 1.41 | 1.60 | 1.89 | 2.22 | 2.50 | 2.66 |
| 03 SEX | 2.66 | 2.50 | 2.22 | 1.89 | 1.60 | 1.42 | 1.42 | 1.61 | 1.94 | 2.34 | 2.69 | 2.92 | 2.96 | 2.78 | 2.43 | 1.99 | 1.56 | 1.24 | 1.12 | 1.23 | 1.53 | 1.97 | 2.41 | 2.76 |
| 04 SAB | 2.93 | 2.86 | 2.58 | 2.15 | 1.70 | 1.33 | 1.15 | 1.23 | 1.54 | 2.02 | 2.54 | 2.97 | 3.21 | 3.17 | 2.87 | 2.36 | 1.78 | 1.26 | 0.93 | 0.88 | 1.12 | 1.59 | 2.16 | 2.71 |
| 05 DOM | 3.08 | 3.18 | 2.99 | 2.54 | 1.96 | 1.40 | 1.01 | 0.90 | 1.11 | 1.58 | 2.20 | 2.83 | 3.29 | 3.47 | 3.31 | 2.85 | 2.18 | 1.48 | 0.92 | 0.65 | 0.73 | 1.13 | 1.76 | 2.45 |
| 06 SEG | 3.04 | 3.37 | 3.36 | 3.00 | 2.39 | 1.68 | 1.07 | 0.72 | 0.73 | 1.09 | 1.72 | 2.47 | 3.14 | 3.58 | 3.65 | 3.34 | 2.70 | 1.91 | 1.15 | 0.63 | 0.47 | 0.71 | 1.28 | 2.03 |
| 07 TER | 2.78 | 3.35 | 3.58 | 3.41 | 2.88 | 2.13 | 1.36 | 0.77 | 0.52 | 0.67 | 1.19 | 1.94 | 2.75 | 3.41 | 3.76 | 3.70 | 3.23 | 2.47 | 1.61 | 0.87 | 0.44 | 0.44 | 0.83 | 1.52 |
| 08 QUA | 2.34 | 3.08 | 3.56 | 3.65 | 3.33 | 2.67 | 1.85 | 1.08 | 0.56 | 0.44 | 0.74 | 1.37 | 2.18 | 2.97 | 3.57 | 3.80 | 3.61 | 3.03 | 2.20 | 1.36 | 0.71 | 0.42 | 0.56 | 1.07 |
| 09 QUI | 1.81 | 2.61 | 3.27 | 3.63 | 3.59 | 3.15 | 2.42 | 1.60 | 0.90 | 0.50 | 0.51 | 0.90 | 1.57 | 2.36 | 3.09 | 3.57 | 3.68 | 3.39 | 2.76 | 1.96 | 1.21 | 0.70 | 0.56 | 0.81 |
| 10 SEX | 1.36 | 2.08 | 2.80 | 3.34 | 3.57 | 3.41 | 2.92 | 2.20 | 1.45 | 0.86 | 0.59 | 0.69 | 1.12 | 1.75 | 2.45 | 3.06 | 3.43 | 3.44 | 3.11 | 2.51 | 1.81 | 1.20 | 0.84 | 0.81 |
| 11 SAB | 1.11 | 1.63 | 2.26 | 2.85 | 3.27 | 3.39 | 3.19 | 2.70 | 2.06 | 1.43 | 0.97 | 0.80 | 0.93 | 1.31 | 1.85 | 2.43 | 2.91 | 3.17 | 3.14 | 2.83 | 2.33 | 1.77 | 1.31 | 1.08 |
| 12 DOM | 1.11 | 1.39 | 1.82 | 2.33 | 2.79 | 3.10 | 3.16 | 2.97 | 2.56 | 2.04 | 1.54 | 1.19 | 1.05 | 1.15 | 1.44 | 1.85 | 2.29 | 2.66 | 2.87 | 2.85 | 2.63 | 2.26 | 1.85 | 1.52 |
| 13 SEG | 1.35 | 1.38 | 1.58 | 1.89 | 2.27 | 2.63 | 2.88 | 2.95 | 2.83 | 2.53 | 2.14 | 1.74 | 1.44 | 1.29 | 1.31 | 1.48 | 1.76 | 2.09 | 2.40 | 2.61 | 2.65 | 2.53 | 2.30 | 2.00 |
| 14 TER | 1.74 | 1.58 | 1.54 | 1.64 | 1.85 | 2.13 | 2.44 | 2.69 | 2.82 | 2.79 | 2.60 | 2.30 | 1.96 | 1.66 | 1.45 | 1.36 | 1.42 | 1.61 | 1.89 | 2.19 | 2.44 | 2.58 | 2.56 | 2.42 |
| 15 QUA | 2.18 | 1.92 | 1.70 | 1.58 | 1.58 | 1.72 | 1.97 | 2.28 | 2.58 | 2.79 | 2.85 | 2.74 | 2.48 | 2.13 | 1.77 | 1.48 | 1.31 | 1.30 | 1.46 | 1.75 | 2.10 | 2.42 | 2.63 | 2.68 |
| 16 QUI | 2.56 | 2.30 | 1.99 | 1.69 | 1.49 | 1.44 | 1.56 | 1.84 | 2.21 | 2.59 | 2.87 | 2.98 | 2.89 | 2.60 | 2.20 | 1.76 | 1.40 | 1.18 | 1.17 | 1.36 | 1.72 | 2.15 | 2.53 | 2.78 |
| 17 SEX | 2.83 | 2.67 | 2.34 | 1.93 | 1.56 | 1.32 | 1.28 | 1.45 | 1.80 | 2.26 | 2.70 | 3.02 | 3.12 | 2.98 | 2.62 | 2.13 | 1.62 | 1.23 | 1.04 | 1.09 | 1.38 | 1.82 | 2.32 | 2.74 |
| 18 SAB | 2.97 | 2.95 | 2.68 | 2.25 | 1.76 | 1.35 | 1.13 | 1.16 | 1.43 | 1.88 | 2.41 | 2.88 | 3.18 | 3.21 | 2.97 | 2.50 | 1.93 | 1.40 | 1.04 | 0.93 | 1.10 | 1.51 | 2.05 | 2.59 |
| 19 DOM | 2.98 | 3.13 | 2.98 | 2.59 | 2.05 | 1.51 | 1.13 | 0.99 | 1.13 | 1.52 | 2.06 | 2.63 | 3.08 | 3.30 | 3.21 | 2.84 | 2.27 | 1.65 | 1.15 | 0.88 | 0.92 | 1.24 | 1.76 | 2.35 |
| 20 SEG | 2.87 | 3.18 | 3.19 | 2.90 | 2.38 | 1.78 | 1.25 | 0.95 | 0.94 | 1.22 | 1.72 | 2.32 | 2.87 | 3.24 | 3.33 | 3.09 | 2.59 | 1.96 | 1.35 | 0.94 | 0.83 | 1.03 | 1.48 | 2.08 |
| 21 TER | 2.67 | 3.12 | 3.29 | 3.14 | 2.71 | 2.10 | 1.49 | 1.03 | 0.86 | 1.00 | 1.42 | 1.99 | 2.59 | 3.07 | 3.31 | 3.24 | 2.86 | 2.27 | 1.63 | 1.11 | 0.84 | 0.90 | 1.25 | 1.80 |
| 22 QUA | 2.42 | 2.95 | 3.27 | 3.27 | 2.97 | 2.43 | 1.79 | 1.24 | 0.91 | 0.89 | 1.18 | 1.68 | 2.27 | 2.82 | 3.18 | 3.26 | 3.04 | 2.55 | 1.94 | 1.35 | 0.96 | 0.87 | 1.09 | 1.55 |
| 23 QUI | 2.14 | 2.71 | 3.13 | 3.29 | 3.14 | 2.71 | 2.12 | 1.52 | 1.08 | 0.90 | 1.04 | 1.43 | 1.96 | 2.52 | 2.96 | 3.18 | 3.11 | 2.76 | 2.22 | 1.64 | 1.17 | 0.95 | 1.02 | 1.37 |
| 24 SEX | 1.88 | 2.44 | 2.92 | 3.20 | 3.20 | 2.91 | 2.42 | 1.84 | 1.33 | 1.03 | 1.01 | 1.25 | 1.69 | 2.21 | 2.68 | 2.99 | 3.06 | 2.87 | 2.46 | 1.93 | 1.44 | 1.12 | 1.06 | 1.26 |
| 25 SAB | 1.67 | 2.17 | 2.66 | 3.01 | 3.14 | 3.02 | 2.66 | 2.15 | 1.64 | 1.26 | 1.09 | 1.19 | 1.49 | 1.93 | 2.37 | 2.73 | 2.91 | 2.87 | 2.60 | 2.19 | 1.73 | 1.37 | 1.19 | 1.25 |
| 26 DOM | 1.52 | 1.93 | 2.38 | 2.76 | 2.99 | 3.01 | 2.80 | 2.42 | 1.97 | 1.55 | 1.29 | 1.23 | 1.39 | 1.70 | 2.08 | 2.43 | 2.69 | 2.77 | 2.65 | 2.37 | 2.00 | 1.65 | 1.41 | 1.34 |
| 27 SEG | 1.47 | 1.75 | 2.11 | 2.47 | 2.75 | 2.88 | 2.83 | 2.61 | 2.26 | 1.88 | 1.57 | 1.40 | 1.40 | 1.56 | 1.83 | 2.13 | 2.40 | 2.57 | 2.60 | 2.47 | 2.22 | 1.93 | 1.68 | 1.52 |
| 28 TER | 1.51 | 1.65 | 1.89 | 2.18 | 2.46 | 2.67 | 2.75 | 2.69 | 2.49 | 2.20 | 1.90 | 1.65 | 1.53 | 1.53 | 1.65 | 1.86 | 2.09 | 2.31 | 2.44 | 2.46 | 2.37 | 2.19 | 1.97 | 1.78 |
| 29 QUA | 1.66 | 1.65 | 1.74 | 1.92 | 2.14 | 2.38 | 2.56 | 2.65 | 2.62 | 2.47 | 2.24 | 1.98 | 1.76 | 1.61 | 1.58 | 1.64 | 1.79 | 1.99 | 2.20 | 2.35 | 2.42 | 2.39 | 2.27 | 2.09 |
| 30 QUI | 1.90 | 1.76 | 1.69 | 1.72 | 1.84 | 2.04 | 2.27 | 2.49 | 2.63 | 2.65 | 2.55 | 2.34 | 2.08 | 1.81 | 1.61 | 1.51 | 1.52 | 1.66 | 1.87 | 2.13 | 2.35 | 2.49 | 2.52 | 2.42 |
| 31 SEX | 2.22 | 1.98 | 1.76 | 1.62 | 1.59 | 1.69 | 1.92 | 2.21 | 2.50 | 2.71 | 2.79 | 2.70 | 2.47 | 2.13 | 1.78 | 1.50 | 1.34 | 1.34 | 1.51 | 1.80 | 2.15 | 2.47 | 2.68 | 2.72 |

Barra de Lisboa (Cascais)

Latitude 38° 41.59' N Longitude 9° 24.92' W

Horas do Fuso: 0 (TU)

NOVEMBRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 SÁB | 2.59 | 2.32 | 1.98 | 1.65 | 1.44 | 1.39 | 1.53 | 1.83 | 2.23 | 2.62 | 2.90 | 2.99 | 2.87 | 2.55 | 2.11 | 1.65 | 1.28 | 1.10 | 1.14 | 1.40 | 1.81 | 2.28 | 2.69 | 2.93 |
| 02 DOM | 2.95 | 2.73 | 2.33 | 1.86 | 1.44 | 1.19 | 1.17 | 1.39 | 1.82 | 2.34 | 2.83 | 3.15 | 3.22 | 3.01 | 2.56 | 1.99 | 1.42 | 1.01 | 0.86 | 0.99 | 1.38 | 1.93 | 2.51 | 2.98 |
| 03 SEG | 3.20 | 3.13 | 2.78 | 2.23 | 1.64 | 1.16 | 0.92 | 0.98 | 1.33 | 1.90 | 2.53 | 3.08 | 3.40 | 3.40 | 3.07 | 2.48 | 1.78 | 1.15 | 0.75 | 0.67 | 0.93 | 1.47 | 2.15 | 2.80 |
| 04 TER | 3.27 | 3.43 | 3.23 | 2.73 | 2.04 | 1.36 | 0.87 | 0.68 | 0.86 | 1.35 | 2.04 | 2.76 | 3.33 | 3.60 | 3.50 | 3.03 | 2.32 | 1.54 | 0.89 | 0.55 | 0.59 | 0.99 | 1.65 | 2.42 |
| 05 QUA | 3.09 | 3.51 | 3.56 | 3.22 | 2.58 | 1.80 | 1.09 | 0.63 | 0.54 | 0.84 | 1.45 | 2.22 | 2.97 | 3.51 | 3.70 | 3.48 | 2.90 | 2.11 | 1.31 | 0.71 | 0.47 | 0.64 | 1.16 | 1.90 |
| 06 QUI | 2.68 | 3.32 | 3.65 | 3.58 | 3.12 | 2.39 | 1.57 | 0.88 | 0.50 | 0.51 | 0.91 | 1.59 | 2.38 | 3.11 | 3.58 | 3.67 | 3.35 | 2.71 | 1.90 | 1.15 | 0.65 | 0.52 | 0.80 | 1.39 |
| 07 SEX | 2.15 | 2.89 | 3.45 | 3.67 | 3.49 | 2.95 | 2.19 | 1.39 | 0.77 | 0.49 | 0.59 | 1.05 | 1.73 | 2.49 | 3.13 | 3.51 | 3.52 | 3.15 | 2.50 | 1.74 | 1.09 | 0.71 | 0.69 | 1.04 |
| 08 SÁB | 1.63 | 2.34 | 3.01 | 3.46 | 3.58 | 3.33 | 2.77 | 2.04 | 1.32 | 0.80 | 0.60 | 0.75 | 1.20 | 1.83 | 2.50 | 3.05 | 3.34 | 3.29 | 2.92 | 2.32 | 1.66 | 1.13 | 0.87 | 0.93 |
| 09 DOM | 1.28 | 1.83 | 2.45 | 3.01 | 3.37 | 3.42 | 3.15 | 2.62 | 1.97 | 1.35 | 0.93 | 0.79 | 0.94 | 1.34 | 1.87 | 2.43 | 2.89 | 3.11 | 3.04 | 2.71 | 2.20 | 1.68 | 1.27 | 1.09 |
| 10 SEG | 1.18 | 1.49 | 1.95 | 2.46 | 2.92 | 3.20 | 3.23 | 2.98 | 2.54 | 1.99 | 1.48 | 1.13 | 1.01 | 1.12 | 1.43 | 1.85 | 2.31 | 2.68 | 2.86 | 2.82 | 2.56 | 2.17 | 1.77 | 1.45 |
| 11 TER | 1.32 | 1.38 | 1.61 | 1.97 | 2.39 | 2.77 | 3.01 | 3.05 | 2.87 | 2.52 | 2.08 | 1.65 | 1.34 | 1.20 | 1.25 | 1.46 | 1.78 | 2.16 | 2.48 | 2.67 | 2.67 | 2.50 | 2.22 | 1.90 |
| 12 QUA | 1.63 | 1.48 | 1.49 | 1.65 | 1.92 | 2.27 | 2.61 | 2.85 | 2.93 | 2.83 | 2.57 | 2.20 | 1.82 | 1.50 | 1.32 | 1.30 | 1.44 | 1.70 | 2.03 | 2.35 | 2.56 | 2.62 | 2.53 | 2.31 |
| 13 QUI | 2.02 | 1.75 | 1.56 | 1.51 | 1.60 | 1.83 | 2.14 | 2.48 | 2.75 | 2.89 | 2.85 | 2.64 | 2.30 | 1.92 | 1.58 | 1.36 | 1.29 | 1.39 | 1.63 | 1.97 | 2.31 | 2.56 | 2.67 | 2.61 |
| 14 SEX | 2.40 | 2.09 | 1.78 | 1.55 | 1.45 | 1.51 | 1.73 | 2.06 | 2.43 | 2.74 | 2.91 | 2.90 | 2.69 | 2.34 | 1.93 | 1.56 | 1.31 | 1.24 | 1.35 | 1.62 | 2.00 | 2.38 | 2.66 | 2.78 |
| 15 SÁB | 2.70 | 2.45 | 2.09 | 1.73 | 1.46 | 1.35 | 1.42 | 1.68 | 2.05 | 2.46 | 2.80 | 2.97 | 2.94 | 2.69 | 2.30 | 1.85 | 1.46 | 1.21 | 1.18 | 1.35 | 1.69 | 2.13 | 2.54 | 2.82 |
| 16 DOM | 2.90 | 2.76 | 2.42 | 2.00 | 1.59 | 1.32 | 1.24 | 1.37 | 1.69 | 2.12 | 2.57 | 2.90 | 3.04 | 2.94 | 2.62 | 2.16 | 1.68 | 1.29 | 1.11 | 1.15 | 1.42 | 1.85 | 2.34 | 2.75 |
| 17 SEG | 2.99 | 2.99 | 2.74 | 2.32 | 1.83 | 1.41 | 1.17 | 1.17 | 1.39 | 1.79 | 2.27 | 2.72 | 3.02 | 3.08 | 2.88 | 2.47 | 1.95 | 1.46 | 1.13 | 1.04 | 1.20 | 1.58 | 2.08 | 2.59 |
| 18 TER | 2.97 | 3.12 | 3.00 | 2.64 | 2.13 | 1.62 | 1.23 | 1.07 | 1.16 | 1.49 | 1.96 | 2.47 | 2.89 | 3.10 | 3.05 | 2.73 | 2.24 | 1.70 | 1.24 | 1.01 | 1.04 | 1.34 | 1.81 | 2.36 |
| 19 QUA | 2.84 | 3.14 | 3.17 | 2.92 | 2.45 | 1.89 | 1.39 | 1.08 | 1.03 | 1.24 | 1.66 | 2.18 | 2.67 | 3.02 | 3.12 | 2.94 | 2.52 | 1.98 | 1.45 | 1.08 | 0.97 | 1.15 | 1.56 | 2.10 |
| 20 QUI | 2.64 | 3.05 | 3.23 | 3.12 | 2.75 | 2.21 | 1.64 | 1.20 | 0.99 | 1.07 | 1.39 | 1.88 | 2.40 | 2.84 | 3.08 | 3.05 | 2.75 | 2.26 | 1.71 | 1.25 | 1.00 | 1.04 | 1.34 | 1.83 |
| 21 SEX | 2.38 | 2.88 | 3.18 | 3.22 | 2.98 | 2.51 | 1.94 | 1.42 | 1.07 | 0.99 | 1.19 | 1.60 | 2.10 | 2.59 | 2.94 | 3.06 | 2.90 | 2.52 | 2.00 | 1.49 | 1.13 | 1.02 | 1.19 | 1.59 |
| 22 SÁB | 2.11 | 2.63 | 3.04 | 3.22 | 3.13 | 2.78 | 2.26 | 1.70 | 1.26 | 1.03 | 1.08 | 1.36 | 1.81 | 2.30 | 2.72 | 2.96 | 2.96 | 2.71 | 2.27 | 1.77 | 1.35 | 1.11 | 1.13 | 1.40 |
| 23 DOM | 1.85 | 2.35 | 2.81 | 3.11 | 3.17 | 2.96 | 2.55 | 2.03 | 1.53 | 1.19 | 1.08 | 1.22 | 1.56 | 2.00 | 2.44 | 2.77 | 2.90 | 2.80 | 2.49 | 2.06 | 1.62 | 1.29 | 1.18 | 1.30 |
| 24 SEG | 1.62 | 2.07 | 2.53 | 2.90 | 3.09 | 3.05 | 2.78 | 2.35 | 1.86 | 1.44 | 1.20 | 1.18 | 1.38 | 1.72 | 2.13 | 2.50 | 2.74 | 2.79 | 2.63 | 2.31 | 1.91 | 1.55 | 1.32 | 1.30 |
| 25 TER | 1.48 | 1.81 | 2.22 | 2.61 | 2.90 | 3.01 | 2.91 | 2.61 | 2.20 | 1.77 | 1.43 | 1.26 | 1.30 | 1.51 | 1.84 | 2.20 | 2.50 | 2.68 | 2.68 | 2.50 | 2.19 | 1.85 | 1.56 | 1.40 |
| 26 QUA | 1.43 | 1.62 | 1.93 | 2.29 | 2.63 | 2.85 | 2.92 | 2.79 | 2.50 | 2.12 | 1.74 | 1.46 | 1.34 | 1.39 | 1.59 | 1.88 | 2.20 | 2.46 | 2.61 | 2.59 | 2.43 | 2.16 | 1.86 | 1.62 |
| 27 QUI | 1.49 | 1.52 | 1.69 | 1.96 | 2.29 | 2.59 | 2.79 | 2.84 | 2.72 | 2.46 | 2.11 | 1.76 | 1.50 | 1.38 | 1.42 | 1.60 | 1.86 | 2.16 | 2.42 | 2.57 | 2.57 | 2.44 | 2.20 | 1.93 |
| 28 SEX | 1.68 | 1.55 | 1.55 | 1.68 | 1.93 | 2.24 | 2.54 | 2.75 | 2.82 | 2.73 | 2.48 | 2.14 | 1.79 | 1.51 | 1.37 | 1.38 | 1.53 | 1.80 | 2.12 | 2.41 | 2.59 | 2.64 | 2.53 | 2.29 |
| 29 SÁB | 2.00 | 1.72 | 1.53 | 1.49 | 1.60 | 1.85 | 2.18 | 2.51 | 2.77 | 2.88 | 2.80 | 2.55 | 2.19 | 1.80 | 1.47 | 1.28 | 1.27 | 1.43 | 1.74 | 2.11 | 2.46 | 2.70 | 2.77 | 2.66 |
| 30 DOM | 2.39 | 2.03 | 1.69 | 1.44 | 1.36 | 1.47 | 1.75 | 2.14 | 2.54 | 2.85 | 3.00 | 2.92 | 2.64 | 2.21 | 1.75 | 1.36 | 1.14 | 1.13 | 1.33 | 1.70 | 2.16 | 2.58 | 2.87 | 2.95 |

Barra de Lisboa (Cascais)

Latitude 38° 41.59' N Longitude 9° 24.92' W

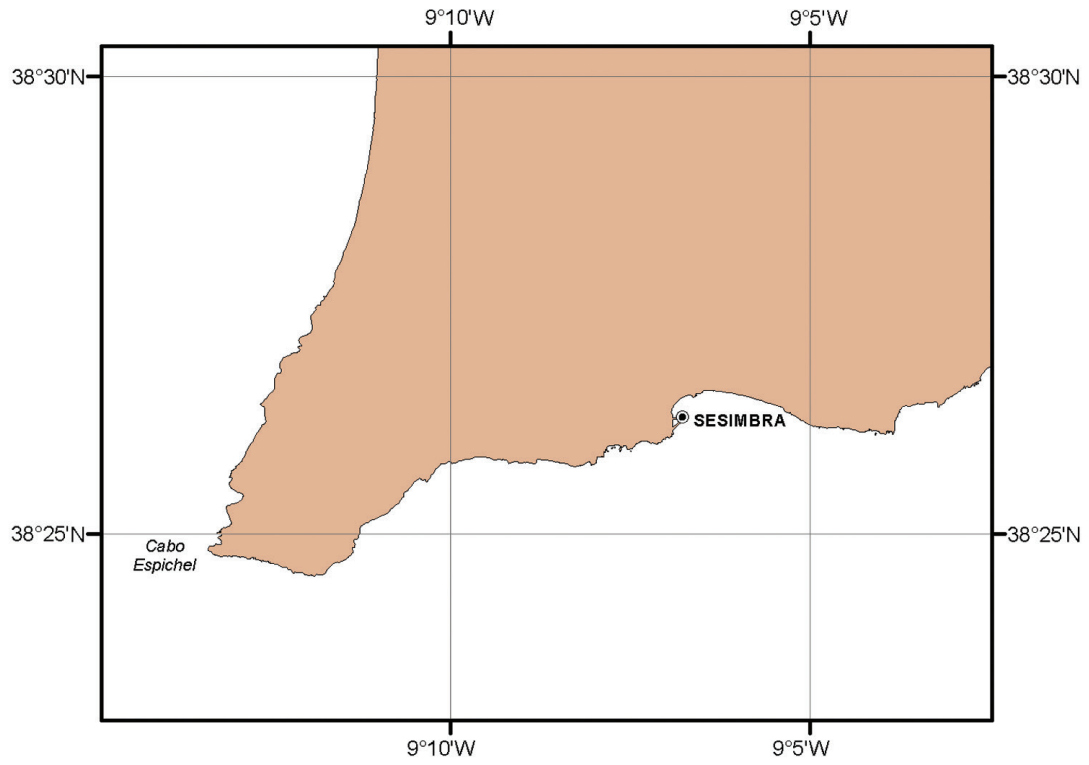
Horas do Fuso: 0 (TU)

DEZEMBRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 SEG | 2.81 | 2.46 | 2.01 | 1.58 | 1.28 | 1.19 | 1.32 | 1.67 | 2.14 | 2.62 | 2.99 | 3.15 | 3.05 | 2.70 | 2.19 | 1.65 | 1.20 | 0.96 | 0.99 | 1.26 | 1.73 | 2.28 | 2.77 | 3.09 |
| 02 TER | 3.14 | 2.92 | 2.47 | 1.92 | 1.41 | 1.07 | 0.99 | 1.19 | 1.62 | 2.18 | 2.74 | 3.16 | 3.31 | 3.16 | 2.73 | 2.13 | 1.51 | 1.03 | 0.80 | 0.89 | 1.26 | 1.83 | 2.46 | 3.00 |
| 03 QUA | 3.30 | 3.30 | 2.98 | 2.43 | 1.78 | 1.21 | 0.86 | 0.82 | 1.09 | 1.61 | 2.26 | 2.88 | 3.31 | 3.43 | 3.21 | 2.69 | 2.01 | 1.35 | 0.87 | 0.69 | 0.86 | 1.33 | 1.98 | 2.67 |
| 04 QUI | 3.22 | 3.48 | 3.40 | 2.98 | 2.33 | 1.61 | 1.01 | 0.68 | 0.69 | 1.05 | 1.65 | 2.36 | 3.00 | 3.41 | 3.49 | 3.19 | 2.61 | 1.88 | 1.21 | 0.76 | 0.66 | 0.91 | 1.46 | 2.17 |
| 05 SEX | 2.87 | 3.39 | 3.60 | 3.43 | 2.92 | 2.20 | 1.45 | 0.85 | 0.56 | 0.65 | 1.06 | 1.71 | 2.44 | 3.08 | 3.45 | 3.46 | 3.11 | 2.48 | 1.75 | 1.10 | 0.72 | 0.70 | 1.03 | 1.63 |
| 06 SAB | 2.35 | 3.03 | 3.50 | 3.64 | 3.39 | 2.82 | 2.07 | 1.32 | 0.77 | 0.54 | 0.68 | 1.13 | 1.79 | 2.50 | 3.09 | 3.40 | 3.36 | 2.97 | 2.34 | 1.64 | 1.06 | 0.76 | 0.82 | 1.19 |
| 07 DOM | 1.80 | 2.50 | 3.13 | 3.53 | 3.59 | 3.29 | 2.70 | 1.97 | 1.26 | 0.77 | 0.60 | 0.77 | 1.23 | 1.86 | 2.52 | 3.04 | 3.29 | 3.20 | 2.80 | 2.20 | 1.57 | 1.08 | 0.87 | 0.98 |
| 08 SEG | 1.37 | 1.95 | 2.59 | 3.15 | 3.47 | 3.48 | 3.16 | 2.59 | 1.90 | 1.27 | 0.85 | 0.73 | 0.92 | 1.35 | 1.92 | 2.50 | 2.94 | 3.13 | 3.01 | 2.63 | 2.09 | 1.55 | 1.15 | 1.02 |
| 09 TER | 1.16 | 1.53 | 2.05 | 2.62 | 3.10 | 3.36 | 3.33 | 3.01 | 2.49 | 1.88 | 1.33 | 0.99 | 0.91 | 1.09 | 1.47 | 1.96 | 2.45 | 2.82 | 2.95 | 2.83 | 2.49 | 2.03 | 1.58 | 1.27 |
| 10 QUA | 1.18 | 1.32 | 1.65 | 2.11 | 2.59 | 2.99 | 3.20 | 3.16 | 2.87 | 2.41 | 1.89 | 1.44 | 1.15 | 1.09 | 1.24 | 1.56 | 1.98 | 2.39 | 2.69 | 2.80 | 2.69 | 2.40 | 2.02 | 1.65 |
| 11 QUI | 1.39 | 1.32 | 1.44 | 1.72 | 2.11 | 2.52 | 2.86 | 3.03 | 3.00 | 2.76 | 2.37 | 1.93 | 1.54 | 1.30 | 1.24 | 1.36 | 1.62 | 1.98 | 2.33 | 2.59 | 2.69 | 2.61 | 2.37 | 2.05 |
| 12 SEX | 1.73 | 1.51 | 1.43 | 1.52 | 1.75 | 2.07 | 2.43 | 2.73 | 2.89 | 2.87 | 2.68 | 2.35 | 1.97 | 1.63 | 1.40 | 1.34 | 1.43 | 1.66 | 1.97 | 2.30 | 2.54 | 2.65 | 2.59 | 2.39 |
| 13 SAB | 2.10 | 1.80 | 1.58 | 1.48 | 1.54 | 1.73 | 2.02 | 2.35 | 2.63 | 2.80 | 2.80 | 2.63 | 2.34 | 1.98 | 1.66 | 1.44 | 1.37 | 1.46 | 1.68 | 1.99 | 2.31 | 2.56 | 2.68 | 2.63 |
| 14 DOM | 2.43 | 2.14 | 1.83 | 1.59 | 1.48 | 1.52 | 1.69 | 1.98 | 2.30 | 2.59 | 2.76 | 2.77 | 2.61 | 2.31 | 1.96 | 1.64 | 1.42 | 1.36 | 1.46 | 1.70 | 2.04 | 2.38 | 2.65 | 2.76 |
| 15 SEG | 2.70 | 2.47 | 2.14 | 1.81 | 1.55 | 1.42 | 1.47 | 1.66 | 1.97 | 2.31 | 2.61 | 2.78 | 2.77 | 2.58 | 2.26 | 1.88 | 1.55 | 1.34 | 1.31 | 1.47 | 1.76 | 2.14 | 2.51 | 2.78 |
| 16 TER | 2.86 | 2.75 | 2.47 | 2.09 | 1.72 | 1.45 | 1.34 | 1.42 | 1.66 | 2.01 | 2.38 | 2.68 | 2.83 | 2.77 | 2.53 | 2.16 | 1.75 | 1.42 | 1.25 | 1.28 | 1.51 | 1.88 | 2.31 | 2.69 |
| 17 QUA | 2.93 | 2.95 | 2.76 | 2.40 | 1.97 | 1.57 | 1.32 | 1.25 | 1.40 | 1.71 | 2.11 | 2.51 | 2.79 | 2.88 | 2.76 | 2.44 | 2.01 | 1.59 | 1.28 | 1.17 | 1.29 | 1.61 | 2.05 | 2.51 |
| 18 QUI | 2.88 | 3.06 | 2.99 | 2.71 | 2.27 | 1.79 | 1.40 | 1.18 | 1.20 | 1.43 | 1.82 | 2.26 | 2.65 | 2.89 | 2.91 | 2.69 | 2.29 | 1.83 | 1.41 | 1.16 | 1.14 | 1.37 | 1.78 | 2.27 |
| 19 SEX | 2.74 | 3.05 | 3.14 | 2.97 | 2.58 | 2.07 | 1.58 | 1.22 | 1.09 | 1.20 | 1.53 | 1.98 | 2.44 | 2.80 | 2.96 | 2.88 | 2.56 | 2.10 | 1.62 | 1.25 | 1.09 | 1.18 | 1.52 | 2.00 |
| 20 SAB | 2.52 | 2.95 | 3.18 | 3.15 | 2.87 | 2.39 | 1.85 | 1.37 | 1.08 | 1.05 | 1.27 | 1.68 | 2.17 | 2.61 | 2.91 | 2.98 | 2.78 | 2.39 | 1.89 | 1.43 | 1.13 | 1.08 | 1.30 | 1.72 |
| 21 DOM | 2.24 | 2.75 | 3.11 | 3.24 | 3.09 | 2.70 | 2.17 | 1.62 | 1.19 | 1.00 | 1.08 | 1.40 | 1.86 | 2.36 | 2.76 | 2.97 | 2.93 | 2.64 | 2.18 | 1.68 | 1.28 | 1.08 | 1.14 | 1.46 |
| 22 SEG | 1.94 | 2.47 | 2.93 | 3.21 | 3.23 | 2.97 | 2.50 | 1.94 | 1.42 | 1.08 | 0.99 | 1.18 | 1.56 | 2.05 | 2.52 | 2.86 | 2.97 | 2.83 | 2.46 | 1.98 | 1.51 | 1.18 | 1.09 | 1.26 |
| 23 TER | 1.65 | 2.15 | 2.66 | 3.06 | 3.24 | 3.15 | 2.81 | 2.29 | 1.74 | 1.28 | 1.03 | 1.05 | 1.31 | 1.74 | 2.22 | 2.64 | 2.90 | 2.92 | 2.69 | 2.29 | 1.81 | 1.40 | 1.16 | 1.16 |
| 24 QUA | 1.41 | 1.83 | 2.33 | 2.80 | 3.11 | 3.20 | 3.03 | 2.63 | 2.11 | 1.59 | 1.20 | 1.05 | 1.14 | 1.45 | 1.89 | 2.34 | 2.71 | 2.89 | 2.83 | 2.56 | 2.15 | 1.70 | 1.35 | 1.19 |
| 25 QUI | 1.26 | 1.55 | 1.98 | 2.45 | 2.86 | 3.11 | 3.12 | 2.89 | 2.47 | 1.96 | 1.49 | 1.18 | 1.10 | 1.25 | 1.57 | 2.00 | 2.42 | 2.73 | 2.85 | 2.75 | 2.46 | 2.06 | 1.65 | 1.36 |
| 26 SEX | 1.25 | 1.36 | 1.66 | 2.07 | 2.51 | 2.87 | 3.06 | 3.03 | 2.78 | 2.36 | 1.88 | 1.46 | 1.20 | 1.16 | 1.33 | 1.66 | 2.06 | 2.44 | 2.71 | 2.80 | 2.69 | 2.40 | 2.03 | 1.65 |
| 27 SAB | 1.40 | 1.32 | 1.44 | 1.72 | 2.11 | 2.52 | 2.84 | 3.01 | 2.95 | 2.70 | 2.30 | 1.85 | 1.46 | 1.23 | 1.21 | 1.38 | 1.69 | 2.07 | 2.44 | 2.70 | 2.78 | 2.68 | 2.41 | 2.05 |
| 28 DOM | 1.69 | 1.44 | 1.36 | 1.46 | 1.72 | 2.09 | 2.48 | 2.80 | 2.96 | 2.91 | 2.67 | 2.29 | 1.85 | 1.48 | 1.25 | 1.22 | 1.37 | 1.67 | 2.06 | 2.43 | 2.71 | 2.81 | 2.72 | 2.46 |
| 29 SEG | 2.10 | 1.73 | 1.45 | 1.34 | 1.42 | 1.66 | 2.02 | 2.42 | 2.76 | 2.94 | 2.93 | 2.70 | 2.33 | 1.89 | 1.49 | 1.24 | 1.19 | 1.33 | 1.63 | 2.04 | 2.44 | 2.76 | 2.89 | 2.82 |
| 30 TER | 2.55 | 2.16 | 1.75 | 1.43 | 1.27 | 1.32 | 1.55 | 1.93 | 2.36 | 2.74 | 2.97 | 2.99 | 2.77 | 2.39 | 1.92 | 1.48 | 1.20 | 1.12 | 1.26 | 1.59 | 2.04 | 2.50 | 2.86 | 3.03 |
| 31 QUA | 2.95 | 2.66 | 2.21 | 1.74 | 1.35 | 1.14 | 1.16 | 1.41 | 1.83 | 2.32 | 2.76 | 3.04 | 3.08 | 2.86 | 2.44 | 1.92 | 1.44 | 1.12 | 1.02 | 1.18 | 1.56 | 2.07 | 2.60 | 3.01 |

201.8

SESIMBRA



PORTO DE SESIMBRA

NOTAS

1. ANÁLISE HARMÓNICA:

— Efetuada a partir de um ano de observações maregráficas (1975).

2. LOCALIZAÇÃO DO MARÉGRAFO (ATUALMENTE DESATIVADO):

— No cais do porto de Sesimbra:

Latitude 38° 26,29' N; Longitude 9° 06,77' W – WGS84.

3. ALTURAS DE MARÉ:

— Referidas ao nível do zero hidrográfico.

— Nível médio: 2,00 m.

4. ZERO HIDROGRÁFICO:

— 2,00 m abaixo do nível médio adotado (Cascais, 1938).

— 5,54 m abaixo da marca de nivelamento 1/74, existente no barracão sul da lota, em Sesimbra.

— 15,714 m abaixo da marca de nivelamento principal NP150 (IGP) chumbada no lancil da plataforma, em frente da porta da sala de espera mais próxima do cunhal Sul da estação de caminhos de ferro de Setúbal.

Porto de Sesimbra

Latitude 38° 26.29' N Longitude 9° 06.77' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JANEIRO | | | | FEVEREIRO | | | | MARÇO | | | | | | | | | | | | | | | |
|-----------|-------|--------|-----------|-----------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-------|-----------|-------|-------|-------|-------|-----|-------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | | | | | | | |
| 01 | 03:08 | 3.3 | 17 | 04:32 | 3.3 | 01 | 04:14 | 3.6 | 17 | 05:04 | 3.1 | 01 | 03:11 | 3.7 | 17 | 04:01 | 3.2 | | | | | | |
| | 09:23 | 0.7 | | 10:46 | 0.8 | | 10:27 | 0.4 | | 11:10 | 0.9 | | 09:24 | 0.2 | | 10:05 | 0.8 | | | | | | |
| | 15:31 | 3.1 | | SEX | 16:51 | | 3.0 | SÁB | | 16:38 | 3.3 | | SEG | 17:18 | | 2.9 | SÁB | 15:34 | 3.5 | SEG | 16:14 | 3.0 | |
| | 21:30 | 0.8 | | 22:46 | 0.9 | | 22:37 | 0.6 | | 23:16 | 1.0 | | 21:36 | 0.3 | | 22:14 | 0.8 | | | | | | |
| 02 | 03:48 | 3.3 | 18 | 05:09 | 3.2 | 02 | 04:56 | 3.5 | 18 | 05:36 | 2.9 | 02 | 03:52 | 3.7 | 18 | 04:30 | 3.0 | | | | | | |
| | 10:04 | 0.7 | | 11:21 | 0.9 | | 11:09 | 0.5 | | 11:41 | 1.1 | | 10:02 | 0.3 | | 10:32 | 0.9 | | | | | | |
| | QUI | 16:13 | | 3.1 | SÁB | | 17:27 | 2.8 | | DOM | 17:21 | | 3.2 | TER | | 17:52 | 2.7 | DOM | 16:15 | 3.4 | TER | 16:43 | 2.9 |
| | 22:12 | 0.8 | | 23:21 | 1.0 | | 23:21 | 0.7 | | 23:51 | 1.1 | | 22:16 | 0.4 | | 22:44 | 0.9 | | | | | | |
| 03 | 04:31 | 3.3 | 19 | 05:45 | 3.0 | 03 | 05:42 | 3.3 | 19 | 06:11 | 2.7 | 03 | 04:34 | 3.6 | 19 | 05:00 | 2.9 | | | | | | |
| | 10:47 | 0.7 | | 11:56 | 1.0 | | 11:53 | 0.7 | | 12:16 | 1.2 | | 10:42 | 0.4 | | 11:00 | 1.0 | | | | | | |
| | SEX | 16:57 | | 3.0 | DOM | | 18:03 | 2.7 | | SEG | 18:09 | | 3.0 | QUA | | 18:32 | 2.6 | SEG | 16:57 | 3.3 | QUA | 17:15 | 2.8 |
| | 22:56 | 0.8 | | 23:58 | 1.1 | | 23:58 | 1.1 | | 23:58 | 1.1 | | 22:59 | 0.5 | | 23:18 | 1.1 | | | | | | |
| 04 | 05:17 | 3.3 | 20 | 06:23 | 2.9 | 04 | 00:09 | 0.8 | 20 | 00:35 | 1.3 | 04 | 05:19 | 3.4 | 20 | 05:34 | 2.7 | | | | | | |
| | 11:33 | 0.7 | | 12:33 | 1.2 | | 06:32 | 3.1 | | 06:54 | 2.5 | | 11:24 | 0.6 | | 11:33 | 1.2 | | | | | | |
| | SÁB | 17:45 | | 3.0 | SEG | | 18:44 | 2.6 | | TER | 12:41 | | 0.9 | QUI | | 13:01 | 1.4 | TER | 17:42 | 3.1 | QUI | 17:53 | 2.7 |
| | 23:44 | 0.9 | | 23:44 | 0.9 | | 19:01 | 2.9 | | 19:25 | 2.5 | | 23:46 | 0.7 | | 23:46 | 0.7 | | | | | | |
| 05 | 06:06 | 3.2 | 21 | 00:40 | 1.3 | 05 | 01:05 | 1.0 | 21 | 01:36 | 1.5 | 05 | 06:08 | 3.1 | 21 | 00:00 | 1.3 | | | | | | |
| | 12:22 | 0.8 | | 07:05 | 2.7 | | 07:29 | 2.9 | | 07:57 | 2.3 | | 12:11 | 0.9 | | 06:16 | 2.5 | | | | | | |
| | DOM | 18:38 | | 2.9 | TER | | 13:17 | 1.3 | | QUA | 13:39 | | 1.1 | SEX | | 14:11 | 1.5 | QUA | 18:34 | 2.9 | SEX | 12:15 | 1.4 |
| | | | | | ((| | 19:33 | 2.5 | |) | 20:05 | | 2.7 | 20:44 | | 2.4 | 18:42 | 2.5 | | | | | |
| 06 | 00:37 | 1.0 | 22 | 01:32 | 1.4 | 06 | 02:17 | 1.2 | 22 | 03:17 | 1.6 | 06 | 00:43 | 1.0 | 22 | 00:59 | 1.4 | | | | | | |
| | 07:01 | 3.0 | | 07:57 | 2.5 | | 08:40 | 2.7 | | 09:36 | 2.3 | | 07:06 | 2.8 | | 07:17 | 2.3 | | | | | | |
| | SEG | 13:17 | | 0.9 | QUA | | 14:14 | 1.4 | | QUI | 14:55 | | 1.3 | SÁB | | 15:54 | 1.6 | QUI | 13:09 | 1.2 | SÁB | 13:21 | 1.6 |
| |) | 19:37 | | 2.8 | 20:36 | | 2.4 | 21:24 | | 2.6 | 22:22 | | 2.4 |) | | 19:38 | 2.7 | ((| 19:58 | 2.4 | | | |
| 07 | 01:37 | 1.1 | 23 | 02:45 | 1.5 | 07 | 03:51 | 1.3 | 23 | 04:58 | 1.5 | 07 | 02:02 | 1.2 | 23 | 02:36 | 1.5 | | | | | | |
| | 08:01 | 2.9 | | 09:06 | 2.4 | | 10:09 | 2.5 | | 11:12 | 2.4 | | 08:25 | 2.5 | | 09:00 | 2.3 | | | | | | |
| | TER | 14:19 | | 1.0 | QUI | | 15:29 | 1.5 | | SEX | 16:25 | | 1.3 | DOM | | 17:17 | 1.4 | SEX | 14:33 | 1.4 | DOM | 15:11 | 1.6 |
| | 20:42 | 2.7 | | 21:53 | 2.4 | | 22:50 | 2.7 | | 23:36 | 2.6 | | 21:07 | 2.6 | | 21:41 | 2.5 | | | | | | |
| 08 | 02:49 | 1.2 | 24 | 04:15 | 1.5 | 08 | 05:21 | 1.2 | 24 | 06:03 | 1.3 | 08 | 03:51 | 1.3 | 24 | 04:25 | 1.4 | | | | | | |
| | 09:10 | 2.8 | | 10:27 | 2.4 | | 11:33 | 2.6 | | 12:12 | 2.6 | | 10:10 | 2.4 | | 10:45 | 2.4 | | | | | | |
| | QUA | 15:30 | | 1.1 | SEX | | 16:45 | 1.4 | | SÁB | 17:41 | | 1.3 | SEG | | 18:13 | 1.3 | SÁB | 16:19 | 1.5 | SEG | 16:46 | 1.5 |
| | 21:54 | 2.7 | | 23:06 | 2.5 | | 23:06 | 2.5 | | 23:06 | 2.5 | | 22:44 | 2.6 | | 23:02 | 2.6 | | | | | | |
| 09 | 04:08 | 1.1 | 25 | 05:28 | 1.4 | 09 | 00:01 | 2.8 | 25 | 00:28 | 2.9 | 09 | 05:23 | 1.2 | 25 | 05:33 | 1.2 | | | | | | |
| | 10:23 | 2.8 | | 11:37 | 2.5 | | 06:28 | 1.1 | | 06:50 | 1.0 | | 11:36 | 2.5 | | 11:46 | 2.6 | | | | | | |
| | QUI | 16:42 | | 1.1 | SÁB | | 17:45 | 1.3 | | DOM | 12:37 | | 2.7 | TER | | 12:58 | 2.8 | DOM | 17:38 | 1.4 | TER | 17:46 | 1.2 |
| | 23:03 | 2.8 | | 23:03 | 2.8 | | 18:39 | 1.1 | | 18:58 | 1.0 | | 23:54 | 2.8 | | 23:56 | 2.9 | | | | | | |
| 10 | 05:21 | 1.1 | 26 | 00:04 | 2.7 | 10 | 00:57 | 3.0 | 26 | 01:11 | 3.1 | 10 | 06:25 | 1.1 | 26 | 06:20 | 0.9 | | | | | | |
| | 11:32 | 2.8 | | 06:24 | 1.2 | | 07:20 | 0.9 | | 07:31 | 0.8 | | 12:32 | 2.7 | | 12:30 | 2.9 | | | | | | |
| | SEX | 17:45 | | 1.0 | DOM | | 12:31 | 2.6 | | SEG | 13:26 | | 2.9 | QUA | | 13:38 | 3.0 | SEG | 18:32 | 1.2 | QUA | 18:32 | 1.0 |
| | | | | 18:34 | 1.2 | | 19:26 | 1.0 | | 19:39 | 0.8 | | 19:39 | 0.8 | | | | | | | | | |
| 11 | 00:05 | 2.9 | 27 | 00:51 | 2.9 | 11 | 01:43 | 3.2 | 27 | 01:51 | 3.4 | 11 | 00:45 | 3.0 | 27 | 00:41 | 3.2 | | | | | | |
| | 06:24 | 0.9 | | 07:11 | 1.1 | | 08:02 | 0.8 | | 08:09 | 0.5 | | 07:09 | 0.9 | | 07:01 | 0.7 | | | | | | |
| | SÁB | 12:34 | | 2.9 | SEG | | 13:17 | 2.8 | | TER | 14:07 | | 3.0 | QUI | | 14:16 | 3.2 | TER | 13:13 | 2.9 | QUI | 13:11 | 3.1 |
| | 18:40 | 1.0 | | 19:18 | 1.0 | | 20:06 | 0.9 | | 20:18 | 0.6 | | 19:13 | 1.0 | | 19:13 | 1.0 | | | | | | |
| 12 | 01:00 | 3.1 | 28 | 01:33 | 3.1 | 12 | 02:22 | 3.4 | 28 | 02:31 | 3.6 | 12 | 01:26 | 3.2 | 28 | 01:23 | 3.4 | | | | | | |
| | 07:19 | 0.8 | | 07:52 | 0.9 | | 08:39 | 0.7 | | 08:46 | 0.3 | | 07:45 | 0.8 | | 07:40 | 0.4 | | | | | | |
| | DOM | 13:28 | | 3.0 | TER | | 13:58 | 3.0 | | QUA | 14:44 | | 3.1 | QUA | | 13:49 | 3.0 | SEX | 13:50 | 3.3 | | | |
| | 19:30 | 0.9 | | 19:58 | 0.9 | | 20:41 | 0.8 | | 20:56 | 0.4 | | 19:48 | 0.9 | | 19:53 | 0.5 | | | | | | |
| 13 | 01:49 | 3.3 | 29 | 02:13 | 3.3 | 13 | 02:58 | 3.4 | 29 | 03:06 | 3.6 | 13 | 02:01 | 3.3 | 29 | 02:05 | 3.6 | | | | | | |
| | 08:08 | 0.7 | | 08:31 | 0.7 | | 09:12 | 0.6 | | 09:12 | 0.6 | | 08:16 | 0.7 | | 08:19 | 0.2 | | | | | | |
| | SEG | 14:16 | | 3.1 | QUA | | 14:37 | 3.1 | | QUI | 15:17 | | 3.1 | QUI | | 14:20 | 3.1 | SÁB | 14:30 | 3.5 | | | |
| | ○ | 20:15 | | 0.8 | ● | | 20:38 | 0.7 | | 21:14 | 0.7 | | 20:19 | 0.8 | | ● | 20:33 | 0.3 | | | | | |
| 14 | 02:35 | 3.4 | 30 | 02:53 | 3.4 | 14 | 03:32 | 3.4 | 30 | 03:40 | 3.6 | 14 | 02:34 | 3.3 | 30 | 02:47 | 3.7 | | | | | | |
| | 08:52 | 0.7 | | 09:09 | 0.5 | | 09:43 | 0.6 | | 09:43 | 0.6 | | 08:45 | 0.6 | | 08:58 | 0.2 | | | | | | |
| | TER | 14:59 | | 3.1 | QUI | | 15:16 | 3.2 | | SEX | 15:48 | | 3.1 | SEX | | 14:50 | 3.2 | DOM | 15:10 | 3.6 | | | |
| | 20:56 | 0.8 | | 21:17 | 0.6 | | 21:45 | 0.7 | | 21:45 | 0.7 | | 20:49 | 0.7 | | 21:14 | 0.2 | | | | | | |
| 15 | 03:16 | 3.4 | 31 | 03:32 | 3.5 | 15 | 04:04 | 3.4 | 31 | 04:12 | 3.6 | 15 | 03:04 | 3.3 | 31 | 03:30 | 3.7 | | | | | | |
| | 09:32 | 0.6 | | 09:48 | 0.4 | | 10:13 | 0.7 | | 10:13 | 0.7 | | 09:12 | 0.6 | | 09:37 | 0.2 | | | | | | |
| | QUA | 15:39 | | 3.1 | SEX | | 15:56 | 3.3 | | SÁB | 16:18 | | 3.1 | SÁB | | 15:19 | 3.2 | SEG | 15:52 | 3.5 | | | |
| | 21:35 | 0.8 | | 21:56 | 0.6 | | 22:15 | 0.8 | | 22:15 | 0.8 | | 21:17 | 0.7 | | 21:57 | 0.3 | | | | | | |
| 16 | 03:55 | 3.4 | 16 | 04:34 | 3.2 | 16 | 04:34 | 3.2 | 16 | 04:42 | 3.4 | 16 | 03:33 | 3.3 | 16 | 03:30 | 3.7 | | | | | | |
| | 10:10 | 0.7 | | 10:41 | 0.8 | | 10:41 | 0.8 | | 10:41 | 0.8 | | 09:39 | 0.7 | | 09:37 | 0.2 | | | | | | |
| | QUI | 16:16 | | 3.1 | DOM | | 16:48 | 3.0 | | DOM | 16:48 | | 3.0 | DOM | | 15:46 | 3.1 | SEG | 15:52 | 3.5 | | | |
| | 22:11 | 0.8 | | 22:45 | 0.9 | | 22:45 | 0.9 | | 22:45 | 0.9 | | 21:45 | 0.7 | | 21:45 | 0.7 | | | | | | |

Porto de Sesimbra

Latitude 38° 26.29' N Longitude 9° 06.77' W

Horas do Fuso: 0 (TU)

Ano: 2025

| ABRIL | | | | MAIO | | | | JUNHO | | | | | | | | | |
|-----------|-------|--------|-----------|-------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-----|-----------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 04:14 | 3.5 | 17 | 04:36 | 2.8 | 01 | 04:48 | 3.1 | 17 | 05:03 | 2.7 | 01 | 00:17 | 0.9 | 17 | 00:21 | 1.0 |
| | 10:18 | 0.4 | | 10:32 | 1.1 | | 10:44 | 0.8 | | 10:58 | 1.2 | | 06:29 | 2.7 | | 06:36 | 2.7 |
| TER | 16:35 | 3.4 | QUI | 16:51 | 2.9 | QUI | 17:08 | 3.2 | SÁB | 17:22 | 2.9 | DOM | 12:22 | 1.2 | TER | 12:34 | 1.2 |
| | 22:42 | 0.5 | | 23:00 | 1.1 | | 23:27 | 0.8 | | 23:41 | 1.1 | | 18:49 | 3.0 | | 18:57 | 2.9 |
| 02 | 05:00 | 3.3 | 18 | 05:12 | 2.7 | 02 | 05:44 | 2.9 | 18 | 05:53 | 2.6 | 02 | 01:17 | 1.1 | 18 | 01:16 | 1.0 |
| | 11:01 | 0.7 | | 11:07 | 1.2 | | 11:37 | 1.1 | | 11:49 | 1.3 | | 07:31 | 2.6 | | 07:35 | 2.7 |
| QUA | 17:22 | 3.2 | SEX | 17:31 | 2.8 | SEX | 18:05 | 3.0 | DOM | 18:15 | 2.8 | SEG | 13:23 | 1.3 | QUA | 13:34 | 1.2 |
| | 23:33 | 0.7 | | 23:45 | 1.2 | | | | | | | | 19:50 | 2.8 | (| 19:56 | 2.9 |
| 03 | 05:52 | 2.9 | 19 | 05:58 | 2.5 | 03 | 00:33 | 1.0 | 19 | 00:39 | 1.2 | 03 | 02:19 | 1.2 | 19 | 02:17 | 1.0 |
| | 11:49 | 1.0 | | 11:54 | 1.4 | | 06:49 | 2.6 | | 06:56 | 2.5 | | 08:35 | 2.5 | | 08:39 | 2.7 |
| QUI | 18:16 | 3.0 | SÁB | 18:23 | 2.6 | SÁB | 12:42 | 1.3 | SEG | 12:54 | 1.4 | TER | 14:29 | 1.4 | QUI | 14:41 | 1.2 |
| | | | | | | | 19:12 | 2.8 | | 19:19 | 2.7 |) | 20:53 | 2.7 | | 21:00 | 2.8 |
| 04 | 00:36 | 1.0 | 20 | 00:47 | 1.4 | 04 | 01:49 | 1.2 | 20 | 01:47 | 1.2 | 04 | 03:23 | 1.2 | 20 | 03:21 | 1.0 |
| | 06:56 | 2.6 | | 07:04 | 2.4 | | 08:06 | 2.5 | | 08:09 | 2.5 | | 09:39 | 2.5 | | 09:44 | 2.7 |
| SEX | 12:52 | 1.3 | DOM | 13:04 | 1.5 | DOM | 14:02 | 1.4 | TER | 14:09 | 1.4 | QUA | 15:37 | 1.4 | SEX | 15:51 | 1.1 |
| | 19:24 | 2.7 | | 19:36 | 2.5 |) | 20:29 | 2.7 | (| 20:30 | 2.7 | | 21:56 | 2.7 | | 22:05 | 2.9 |
| 05 | 02:01 | 1.2 | 21 | 02:13 | 1.4 | 05 | 03:11 | 1.2 | 21 | 02:59 | 1.2 | 05 | 04:22 | 1.2 | 21 | 04:25 | 0.9 |
| | 08:21 | 2.4 | | 08:38 | 2.3 | | 09:30 | 2.5 | | 09:23 | 2.6 | | 10:36 | 2.6 | | 10:45 | 2.9 |
| SÁB | 14:22 | 1.5 | SEG | 14:40 | 1.5 | SEG | 15:26 | 1.5 | QUA | 15:24 | 1.3 | QUI | 16:39 | 1.3 | SÁB | 16:56 | 1.0 |
|) | 20:54 | 2.6 | (| 21:05 | 2.5 |) | 21:47 | 2.7 |) | 21:39 | 2.8 |) | 22:51 | 2.7 |) | 23:08 | 2.9 |
| 06 | 03:43 | 1.3 | 22 | 03:43 | 1.3 | 06 | 04:24 | 1.2 | 22 | 04:06 | 1.0 | 06 | 05:12 | 1.2 | 22 | 05:24 | 0.9 |
| | 10:03 | 2.4 | | 10:07 | 2.4 | | 10:39 | 2.5 | | 10:26 | 2.7 | | 11:25 | 2.6 | | 11:43 | 3.0 |
| DOM | 16:04 | 1.5 | TER | 16:08 | 1.4 | TER | 16:37 | 1.4 | QUI | 16:30 | 1.1 | SEX | 17:30 | 1.2 | DOM | 17:56 | 0.8 |
| | 22:25 | 2.7 | | 22:21 | 2.7 | | 22:51 | 2.8 | | 22:41 | 2.9 | | 23:39 | 2.7 | | | |
| 07 | 05:06 | 1.2 | 23 | 04:51 | 1.1 | 07 | 05:20 | 1.1 | 23 | 05:03 | 0.8 | 07 | 05:54 | 1.1 | 23 | 00:07 | 3.0 |
| | 11:19 | 2.5 | | 11:09 | 2.7 | | 11:30 | 2.6 | | 11:20 | 2.9 | | 12:07 | 2.7 | | 06:18 | 0.8 |
| SEG | 17:18 | 1.4 | QUA | 17:10 | 1.2 | QUA | 17:30 | 1.2 | SEX | 17:26 | 0.9 | SÁB | 18:15 | 1.1 | SEG | 12:37 | 3.2 |
| | 23:31 | 2.8 | | 23:19 | 2.9 | | 23:40 | 2.8 | | 23:35 | 3.1 | | | | | 18:52 | 0.7 |
| 08 | 06:01 | 1.1 | 24 | 05:43 | 0.9 | 08 | 06:02 | 1.0 | 24 | 05:53 | 0.7 | 08 | 00:23 | 2.7 | 24 | 01:04 | 3.1 |
| | 12:09 | 2.7 | | 11:56 | 2.9 | | 12:10 | 2.8 | | 12:08 | 3.1 | | 06:32 | 1.0 | | 07:09 | 0.7 |
| TER | 18:08 | 1.2 | QUI | 17:59 | 0.9 | QUI | 18:13 | 1.1 | SÁB | 18:16 | 0.7 | DOM | 12:46 | 2.8 | TER | 13:29 | 3.3 |
| | | | | | | | | | | | | | 18:55 | 1.1 | | 19:46 | 0.6 |
| 09 | 00:19 | 3.0 | 25 | 00:08 | 3.1 | 09 | 00:22 | 2.9 | 25 | 00:26 | 3.2 | 09 | 01:03 | 2.8 | 25 | 01:58 | 3.2 |
| | 06:42 | 0.9 | | 06:27 | 0.6 | | 06:37 | 0.9 | | 06:40 | 0.5 | | 07:08 | 1.0 | | 07:59 | 0.7 |
| QUA | 12:47 | 2.8 | SEX | 12:40 | 3.1 | SEX | 12:46 | 2.9 | DOM | 12:56 | 3.3 | SEG | 13:23 | 2.9 | QUA | 14:20 | 3.4 |
| | 18:48 | 1.0 | | 18:44 | 0.7 | | 18:49 | 1.0 | | 19:05 | 0.5 | | 19:33 | 1.0 | ● | 20:37 | 0.6 |
| 10 | 00:58 | 3.1 | 26 | 00:53 | 3.4 | 10 | 00:58 | 2.9 | 26 | 01:17 | 3.3 | 10 | 01:41 | 2.8 | 26 | 02:49 | 3.2 |
| | 07:15 | 0.8 | | 07:09 | 0.4 | | 07:09 | 0.9 | | 07:26 | 0.5 | | 07:43 | 1.0 | | 08:47 | 0.7 |
| QUI | 13:21 | 3.0 | SÁB | 13:22 | 3.3 | SÁB | 13:19 | 3.0 | SEG | 13:43 | 3.4 | TER | 13:59 | 3.0 | QUI | 15:08 | 3.5 |
| | 19:21 | 0.9 | | 19:28 | 0.4 | | 19:23 | 0.9 | | 19:54 | 0.4 | | 20:10 | 0.9 | | 21:27 | 0.6 |
| 11 | 01:32 | 3.1 | 27 | 01:39 | 3.5 | 11 | 01:33 | 3.0 | 27 | 02:07 | 3.3 | 11 | 02:18 | 2.9 | 27 | 03:37 | 3.2 |
| | 07:45 | 0.7 | | 07:51 | 0.3 | | 07:40 | 0.8 | | 08:12 | 0.5 | | 08:18 | 1.0 | | 09:34 | 0.8 |
| SEX | 13:51 | 3.1 | DOM | 14:05 | 3.5 | DOM | 13:51 | 3.0 | TER | 14:30 | 3.5 | QUA | 14:35 | 3.1 | SEX | 15:55 | 3.5 |
| | 19:52 | 0.8 | ● | 20:11 | 0.3 | | 19:56 | 0.8 | ● | 20:43 | 0.4 | ○ | 20:47 | 0.9 | | 22:15 | 0.6 |
| 12 | 02:04 | 3.2 | 28 | 02:24 | 3.6 | 12 | 02:06 | 3.0 | 28 | 02:57 | 3.3 | 12 | 02:55 | 2.9 | 28 | 04:24 | 3.1 |
| | 08:13 | 0.7 | | 08:32 | 0.3 | | 08:09 | 0.8 | | 08:58 | 0.6 | | 08:53 | 1.0 | | 10:19 | 0.9 |
| SÁB | 14:21 | 3.1 | SEG | 14:48 | 3.5 | SEG | 14:22 | 3.1 | QUA | 15:18 | 3.5 | QUI | 15:11 | 3.1 | SÁB | 16:41 | 3.4 |
| | 20:22 | 0.7 | | 20:56 | 0.3 | ○ | 20:28 | 0.8 | | 21:34 | 0.5 | | 21:24 | 0.9 | | 23:01 | 0.7 |
| 13 | 02:34 | 3.2 | 29 | 03:11 | 3.5 | 13 | 02:38 | 3.0 | 29 | 03:48 | 3.2 | 13 | 03:33 | 2.9 | 29 | 05:10 | 3.0 |
| | 08:40 | 0.7 | | 09:14 | 0.4 | | 08:39 | 0.8 | | 09:45 | 0.7 | | 09:29 | 1.0 | | 11:03 | 1.0 |
| DOM | 14:49 | 3.1 | TER | 15:32 | 3.5 | TER | 14:54 | 3.1 | QUI | 16:07 | 3.4 | SEX | 15:48 | 3.1 | DOM | 17:27 | 3.2 |
| ○ | 20:51 | 0.7 | | 21:42 | 0.4 | | 21:01 | 0.8 | | 22:25 | 0.6 | | 22:03 | 0.9 | | 23:46 | 0.9 |
| 14 | 03:04 | 3.1 | 30 | 03:58 | 3.3 | 14 | 03:11 | 2.9 | 30 | 04:39 | 3.1 | 14 | 04:12 | 2.9 | 30 | 05:55 | 2.8 |
| | 09:07 | 0.7 | | 09:58 | 0.6 | | 09:10 | 0.9 | | 10:33 | 0.9 | | 10:08 | 1.0 | | 11:48 | 1.1 |
| SEG | 15:18 | 3.1 | QUA | 16:19 | 3.4 | QUA | 15:26 | 3.1 | SEX | 16:58 | 3.3 | SÁB | 16:28 | 3.1 | SEG | 18:13 | 3.1 |
| | 21:20 | 0.7 | | 22:32 | 0.5 | | 21:35 | 0.9 | | 23:20 | 0.8 | | 22:45 | 0.9 | | | |
| 15 | 03:33 | 3.1 | | | | 15 | 03:45 | 2.9 | 31 | 05:32 | 2.9 | 15 | 04:54 | 2.8 | | | |
| | 09:34 | 0.8 | | | | | 09:42 | 1.0 | | 11:25 | 1.1 | | 10:51 | 1.1 | | | |
| TER | 15:47 | 3.1 | | | | QUI | 16:00 | 3.0 | SÁB | 17:51 | 3.1 | DOM | 17:13 | 3.0 | | | |
| | 21:50 | 0.8 | | | | | 22:11 | 0.9 | | | | | 23:31 | 1.0 | | | |
| 16 | 04:03 | 3.0 | | | | 16 | 04:22 | 2.8 | | | | 16 | 05:42 | 2.8 | | | |
| | 10:02 | 0.9 | | | | | 10:17 | 1.1 | | | | | 11:40 | 1.1 | | | |
| QUA | 16:17 | 3.0 | | | | SEX | 16:38 | 3.0 | | | | | 18:02 | 3.0 | | | |
| | 22:23 | 0.9 | | | | | 22:52 | 1.0 | | | | | | | | | |

Porto de Sesimbra

Latitude 38° 26.29' N Longitude 9° 06.77' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JULHO | | | | AGOSTO | | | | SETEMBRO | | | | | | | | | |
|-----------|-------|--------|-----------|--------|--------|-----------|--------|----------|-----------|-------|--------|-----------|-------|-----|-----------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 00:32 | 1.0 | 17 | 00:42 | 0.9 | 01 | 00:59 | 1.3 | 17 | 02:11 | 1.2 | 01 | 01:55 | 1.6 | 17 | 05:06 | 1.4 |
| | 06:42 | 2.7 | | 07:01 | 2.8 | | 07:15 | 2.6 | | 08:41 | 2.7 | | 08:29 | 2.4 | | 11:22 | 2.9 |
| TER | 12:34 | 1.2 | QUI | 13:00 | 1.0 | SEX | 13:14 | 1.4 | DOM | 15:05 | 1.3 | SEG | 15:05 | 1.6 | QUA | 17:54 | 1.1 |
| | 19:01 | 2.9 | | 19:23 | 3.0 |) | 19:38 | 2.6 | | 21:25 | 2.6 | | 21:23 | 2.3 | | | |
| 02 | 01:19 | 1.2 | 18 | 01:37 | 1.0 | 02 | 01:51 | 1.4 | 18 | 03:40 | 1.3 | 02 | 03:41 | 1.6 | 18 | 00:03 | 2.8 |
| | 07:32 | 2.6 | | 08:00 | 2.8 | | 08:13 | 2.5 | | 10:08 | 2.7 | | 10:10 | 2.5 | | 06:04 | 1.2 |
| QUA | 13:25 | 1.3 | SEX | 14:04 | 1.1 | SÁB | 14:22 | 1.5 | SEG | 16:40 | 1.2 | TER | 16:48 | 1.5 | QUI | 12:17 | 3.1 |
|) | 19:51 | 2.7 | (| 20:26 | 2.8 | | 20:42 | 2.4 | | 22:54 | 2.6 | | 23:01 | 2.4 | | 18:42 | 0.9 |
| 03 | 02:10 | 1.3 | 19 | 02:42 | 1.1 | 03 | 03:02 | 1.5 | 19 | 05:04 | 1.3 | 03 | 05:04 | 1.5 | 19 | 00:48 | 2.9 |
| | 08:27 | 2.5 | | 09:07 | 2.7 | | 09:29 | 2.4 | | 11:26 | 2.8 | | 11:24 | 2.6 | | 06:48 | 1.0 |
| QUI | 14:24 | 1.4 | SÁB | 15:19 | 1.2 | DOM | 15:52 | 1.5 | TER | 17:55 | 1.1 | QUA | 17:52 | 1.3 | SEX | 13:00 | 3.2 |
| | 20:48 | 2.6 | | 21:37 | 2.8 | | 22:05 | 2.4 | | | | | | | | 19:21 | 0.8 |
| 04 | 03:09 | 1.3 | 20 | 03:55 | 1.1 | 04 | 04:22 | 1.5 | 20 | 00:05 | 2.7 | 04 | 00:00 | 2.6 | 20 | 01:25 | 3.1 |
| | 09:28 | 2.5 | | 10:19 | 2.8 | | 10:47 | 2.5 | | 06:08 | 1.2 | | 05:59 | 1.3 | | 07:25 | 0.9 |
| SEX | 15:33 | 1.4 | DOM | 16:39 | 1.1 | SEG | 17:12 | 1.5 | QUA | 12:27 | 3.1 | QUI | 12:13 | 2.9 | SÁB | 13:38 | 3.4 |
| | 21:50 | 2.5 | | 22:52 | 2.8 | | 23:22 | 2.4 | | 18:52 | 0.9 | | 18:36 | 1.1 | | 19:54 | 0.7 |
| 05 | 04:11 | 1.3 | 21 | 05:06 | 1.1 | 05 | 05:28 | 1.4 | 21 | 00:59 | 2.9 | 05 | 00:43 | 2.8 | 21 | 01:59 | 3.2 |
| | 10:30 | 2.5 | | 11:28 | 2.9 | | 11:50 | 2.7 | | 06:59 | 1.0 | | 06:42 | 1.1 | | 07:58 | 0.8 |
| SÁB | 16:42 | 1.4 | SEG | 17:49 | 1.0 | TER | 18:12 | 1.3 | QUI | 13:16 | 3.3 | SEX | 12:54 | 3.1 | DOM | 14:13 | 3.4 |
| | 22:53 | 2.5 | | | | | | | | 19:38 | 0.8 | | 19:14 | 0.9 | ● | 20:25 | 0.6 |
| 06 | 05:08 | 1.3 | 22 | 00:01 | 2.8 | 06 | 00:19 | 2.6 | 22 | 01:43 | 3.1 | 06 | 01:20 | 3.0 | 22 | 02:31 | 3.2 |
| | 11:27 | 2.6 | | 06:08 | 1.0 | | 06:20 | 1.3 | | 07:42 | 0.9 | | 07:20 | 0.9 | | 08:30 | 0.7 |
| DOM | 17:41 | 1.3 | TER | 12:29 | 3.1 | QUA | 12:38 | 2.8 | SEX | 13:59 | 3.4 | SÁB | 13:31 | 3.3 | SEG | 14:45 | 3.4 |
| | 23:49 | 2.6 | | 18:50 | 0.9 | | 18:59 | 1.2 | | 20:17 | 0.7 | | 19:49 | 0.7 | | 20:54 | 0.6 |
| 07 | 05:57 | 1.2 | 23 | 01:01 | 3.0 | 07 | 01:05 | 2.7 | 23 | 02:22 | 3.2 | 07 | 01:55 | 3.2 | 23 | 03:01 | 3.2 |
| | 12:16 | 2.7 | | 07:03 | 0.9 | | 07:04 | 1.1 | | 08:21 | 0.8 | | 07:57 | 0.7 | | 08:59 | 0.7 |
| SEG | 18:31 | 1.2 | QUA | 13:23 | 3.2 | QUI | 13:20 | 3.0 | SÁB | 14:37 | 3.5 | DOM | 14:08 | 3.5 | TER | 15:15 | 3.3 |
| | | | | 19:44 | 0.7 | | 19:39 | 1.0 | ● | 20:53 | 0.6 | ○ | 20:24 | 0.5 | | 21:21 | 0.7 |
| 08 | 00:38 | 2.6 | 24 | 01:53 | 3.1 | 08 | 01:44 | 2.9 | 24 | 02:58 | 3.2 | 08 | 02:32 | 3.3 | 24 | 03:30 | 3.2 |
| | 06:41 | 1.2 | | 07:52 | 0.8 | | 07:43 | 1.0 | | 08:56 | 0.7 | | 08:33 | 0.5 | | 09:29 | 0.7 |
| TER | 13:00 | 2.9 | QUI | 14:12 | 3.4 | SEX | 13:58 | 3.2 | DOM | 15:13 | 3.5 | SEG | 14:46 | 3.6 | QUA | 15:45 | 3.2 |
| | 19:15 | 1.1 | ● | 20:31 | 0.6 | | 20:16 | 0.8 | | 21:26 | 0.6 | | 20:59 | 0.4 | | 21:48 | 0.8 |
| 09 | 01:22 | 2.7 | 25 | 02:39 | 3.2 | 09 | 02:21 | 3.1 | 25 | 03:31 | 3.2 | 09 | 03:09 | 3.4 | 25 | 03:58 | 3.1 |
| | 07:22 | 1.1 | | 08:37 | 0.8 | | 08:21 | 0.8 | | 09:28 | 0.7 | | 09:11 | 0.4 | | 09:58 | 0.8 |
| QUA | 13:40 | 3.0 | SEX | 14:56 | 3.5 | SÁB | 14:35 | 3.4 | SEG | 15:47 | 3.4 | TER | 15:26 | 3.7 | QUI | 16:14 | 3.1 |
| | 19:56 | 1.0 | | 21:14 | 0.6 | ○ | 20:51 | 0.7 | | 21:56 | 0.7 | | 21:36 | 0.3 | | 22:15 | 0.9 |
| 10 | 02:02 | 2.8 | 26 | 03:21 | 3.2 | 10 | 02:57 | 3.2 | 26 | 04:03 | 3.1 | 10 | 03:48 | 3.5 | 26 | 04:27 | 3.0 |
| | 08:01 | 1.0 | | 09:18 | 0.7 | | 08:58 | 0.7 | | 09:59 | 0.8 | | 09:50 | 0.4 | | 10:29 | 1.0 |
| QUI | 14:18 | 3.1 | SÁB | 15:38 | 3.5 | DOM | 15:12 | 3.5 | TER | 16:19 | 3.3 | QUA | 16:07 | 3.6 | SEX | 16:44 | 2.9 |
| ○ | 20:34 | 0.9 | | 21:54 | 0.6 | | 21:27 | 0.6 | | 22:26 | 0.8 | | 22:15 | 0.4 | | 22:44 | 1.1 |
| 11 | 02:41 | 2.9 | 27 | 04:01 | 3.2 | 11 | 03:35 | 3.3 | 27 | 04:34 | 3.0 | 11 | 04:29 | 3.4 | 27 | 04:59 | 2.9 |
| | 08:39 | 0.9 | | 09:56 | 0.8 | | 09:35 | 0.6 | | 10:30 | 0.9 | | 10:31 | 0.5 | | 11:03 | 1.1 |
| SEX | 14:56 | 3.2 | DOM | 16:17 | 3.4 | SEG | 15:51 | 3.5 | QUA | 16:50 | 3.1 | QUI | 16:50 | 3.4 | SÁB | 17:18 | 2.7 |
| | 21:12 | 0.8 | | 22:31 | 0.7 | | 22:04 | 0.5 | | 22:55 | 0.9 | | 22:55 | 0.6 | | 23:16 | 1.3 |
| 12 | 03:18 | 3.0 | 28 | 04:38 | 3.1 | 12 | 04:13 | 3.3 | 28 | 05:05 | 2.9 | 12 | 05:13 | 3.2 | 28 | 05:37 | 2.7 |
| | 09:17 | 0.9 | | 10:33 | 0.8 | | 10:14 | 0.6 | | 11:02 | 1.0 | | 11:17 | 0.7 | | 11:45 | 1.3 |
| SÁB | 15:34 | 3.3 | SEG | 16:55 | 3.3 | TER | 16:31 | 3.5 | QUI | 17:22 | 2.9 | SEX | 17:38 | 3.2 | DOM | 18:00 | 2.5 |
| | 21:50 | 0.8 | | 23:07 | 0.8 | | 22:42 | 0.5 | | 23:25 | 1.1 | | 23:41 | 0.9 | | 23:59 | 1.5 |
| 13 | 03:57 | 3.0 | 29 | 05:14 | 2.9 | 13 | 04:55 | 3.2 | 29 | 05:38 | 2.8 | 13 | 06:03 | 3.0 | 29 | 06:28 | 2.6 |
| | 09:55 | 0.9 | | 11:08 | 0.9 | | 10:55 | 0.7 | | 11:37 | 1.2 | | 12:12 | 1.0 | | 12:46 | 1.5 |
| DOM | 16:13 | 3.3 | TER | 17:32 | 3.1 | QUA | 17:14 | 3.4 | SEX | 17:57 | 2.7 | SÁB | 18:35 | 2.9 | SEG | 19:03 | 2.3 |
| | 22:29 | 0.7 | | 23:42 | 1.0 | | 23:24 | 0.6 | | | | | | |) | | |
| 14 | 04:37 | 3.0 | 30 | 05:51 | 2.8 | 14 | 05:39 | 3.1 | 30 | 00:00 | 1.3 | 14 | 00:36 | 1.2 | 30 | 01:08 | 1.6 |
| | 10:36 | 0.8 | | 11:45 | 1.1 | | 11:39 | 0.8 | | 06:18 | 2.6 | | 07:05 | 2.8 | | 07:46 | 2.4 |
| SEG | 16:55 | 3.3 | QUA | 18:09 | 2.9 | QUI | 18:01 | 3.2 | SÁB | 12:20 | 1.4 | DOM | 13:26 | 1.2 | TER | 14:28 | 1.6 |
| | 23:10 | 0.7 | | | | | | | | 18:40 | 2.5 | (| 19:49 | 2.6 | | 20:50 | 2.3 |
| 15 | 05:21 | 3.0 | 31 | 00:18 | 1.1 | 15 | 00:09 | 0.8 | 31 | 00:45 | 1.4 | 15 | 01:55 | 1.4 | 15 | 01:55 | 1.4 |
| | 11:19 | 0.9 | | 06:30 | 2.7 | | 06:29 | 3.0 | | 07:10 | 2.5 | | 08:29 | 2.7 | | 08:29 | 2.7 |
| TER | 17:40 | 3.2 | QUI | 12:25 | 1.2 | SEX | 12:31 | 1.0 | DOM | 13:22 | 1.5 | SEG | 15:10 | 1.3 | | 15:10 | 1.3 |
| | 23:54 | 0.8 | | 18:50 | 2.7 | | 18:55 | 3.0 |) | 19:42 | 2.4 | | 21:30 | 2.5 | | 21:30 | 2.5 |
| 16 | 06:08 | 2.9 | | | | 16 | 01:03 | 1.0 | 16 | 03:40 | 1.5 | 16 | 03:40 | 1.5 | | 03:40 | 1.5 |
| | 12:07 | 0.9 | | | | | 07:27 | 2.8 | | 10:06 | 2.7 | | 10:06 | 2.7 | | 10:06 | 2.7 |
| QUA | 18:29 | 3.1 | | | | SÁB | 13:37 | 1.1 | | 16:48 | 1.2 | | 16:48 | 1.2 | | 16:48 | 1.2 |
| | | | | | | (| 20:00 | 2.7 | | 23:02 | 2.6 | | 23:02 | 2.6 | | 23:02 | 2.6 |

Porto de Sesimbra

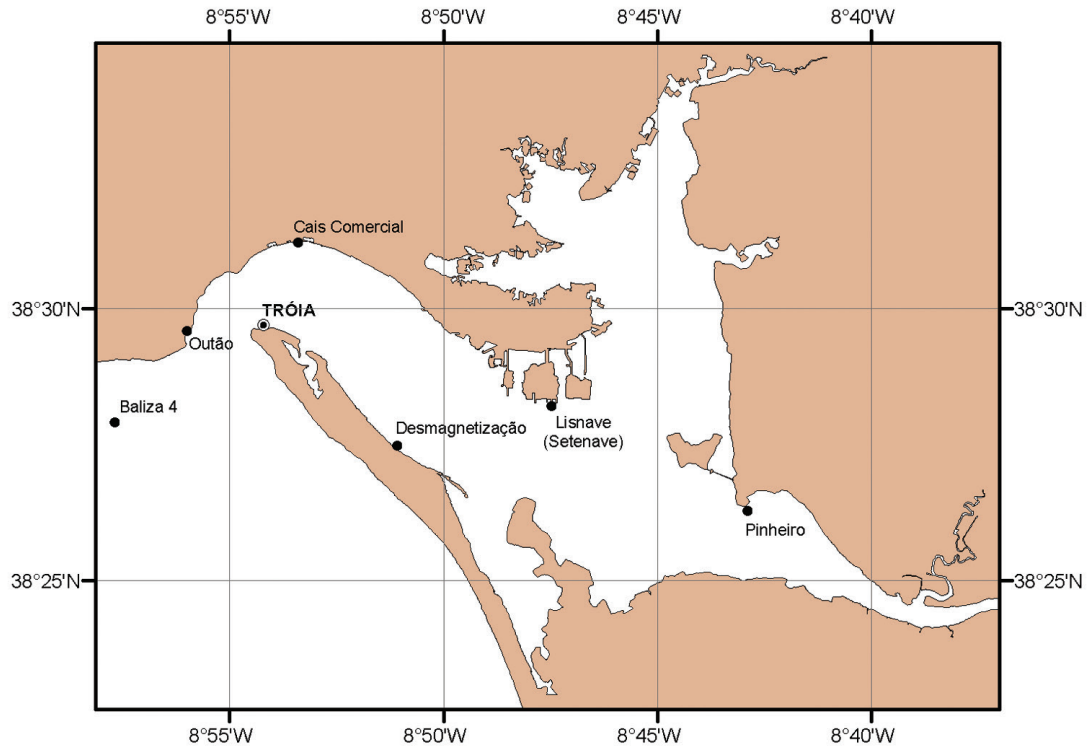
Latitude 38° 26.29' N Longitude 9° 06.77' W

Horas do Fuso: 0 (TU)

Ano: 2025

| OUTUBRO | | | | NOVEMBRO | | | | DEZEMBRO | | | | | | | | | |
|-----------|-------|--------|-----------|----------|--------|-----------|--------|----------|-----------|-------|--------|-----------|-------|-----|-----------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 03:02 | 1.7 | 17 | 05:44 | 1.2 | 01 | 04:50 | 1.3 | 17 | 00:29 | 2.9 | 01 | 04:59 | 1.0 | 17 | 00:36 | 2.8 |
| | 09:31 | 2.5 | | 11:54 | 3.0 | | 10:59 | 2.9 | | 06:33 | 1.0 | | 11:08 | 3.0 | | 06:45 | 1.1 |
| | 16:15 | 1.5 | SEX | 18:19 | 0.9 | SÁB | 17:22 | 1.0 | SEG | 12:42 | 3.0 | SEG | 17:27 | 0.8 | QUA | 12:53 | 2.8 |
| | 22:34 | 2.4 | | | | | 23:35 | 2.8 | | 18:54 | 0.9 | | 23:42 | 3.0 | | 18:58 | 1.0 |
| 02 | 04:34 | 1.5 | 18 | 00:24 | 2.9 | 02 | 05:38 | 1.0 | 18 | 01:03 | 3.0 | 02 | 05:51 | 0.8 | 18 | 01:14 | 2.9 |
| | 10:49 | 2.6 | | 06:25 | 1.0 | | 11:45 | 3.1 | | 07:08 | 0.9 | | 12:00 | 3.1 | | 07:24 | 1.0 |
| | 17:20 | 1.3 | SÁB | 12:36 | 3.1 | DOM | 18:04 | 0.7 | TER | 13:18 | 3.0 | TER | 18:14 | 0.7 | QUI | 13:32 | 2.8 |
| | 23:31 | 2.6 | | 18:54 | 0.8 | | | | | 19:25 | 0.9 | | | | | 19:33 | 1.0 |
| 03 | 05:30 | 1.3 | 19 | 00:59 | 3.0 | 03 | 00:16 | 3.1 | 19 | 01:36 | 3.0 | 03 | 00:30 | 3.2 | 19 | 01:50 | 3.0 |
| | 11:40 | 2.9 | | 07:01 | 0.9 | | 06:21 | 0.8 | | 07:41 | 0.9 | | 06:40 | 0.6 | | 08:01 | 1.0 |
| | 18:04 | 1.1 | DOM | 13:12 | 3.2 | SEG | 12:29 | 3.3 | QUA | 13:51 | 3.0 | QUA | 12:51 | 3.3 | SEX | 14:09 | 2.9 |
| | | | | 19:25 | 0.8 | | 18:44 | 0.5 | | 19:55 | 0.9 | | 19:00 | 0.5 | | 20:08 | 1.0 |
| 04 | 00:12 | 2.8 | 20 | 01:32 | 3.1 | 04 | 00:56 | 3.3 | 20 | 02:08 | 3.1 | 04 | 01:17 | 3.4 | 20 | 02:26 | 3.1 |
| | 06:13 | 1.1 | | 07:33 | 0.8 | | 07:02 | 0.6 | | 08:14 | 0.9 | | 07:29 | 0.5 | | 08:37 | 0.9 |
| | 12:21 | 3.1 | SEG | 13:45 | 3.2 | TER | 13:13 | 3.5 | QUI | 14:24 | 3.0 | QUI | 13:41 | 3.4 | SÁB | 14:45 | 2.9 |
| | 18:41 | 0.8 | | 19:54 | 0.7 | | 19:25 | 0.4 | ● | 20:25 | 0.9 | ○ | 19:46 | 0.5 | ● | 20:43 | 1.0 |
| 05 | 00:49 | 3.1 | 21 | 02:02 | 3.2 | 05 | 01:38 | 3.5 | 21 | 02:40 | 3.1 | 05 | 02:05 | 3.5 | 21 | 03:00 | 3.1 |
| | 06:52 | 0.8 | | 08:04 | 0.8 | | 07:45 | 0.4 | | 08:47 | 0.9 | | 08:18 | 0.4 | | 09:13 | 0.9 |
| | 13:01 | 3.3 | TER | 14:17 | 3.2 | QUA | 13:57 | 3.5 | SEX | 14:57 | 3.0 | SEX | 14:31 | 3.4 | DOM | 15:20 | 2.9 |
| | 19:17 | 0.6 | ● | 20:22 | 0.7 | ○ | 20:05 | 0.3 | | 20:56 | 0.9 | | 20:33 | 0.5 | | 21:17 | 1.0 |
| 06 | 01:26 | 3.3 | 22 | 02:32 | 3.2 | 06 | 02:21 | 3.6 | 22 | 03:12 | 3.1 | 06 | 02:53 | 3.5 | 22 | 03:35 | 3.1 |
| | 07:29 | 0.6 | | 08:34 | 0.7 | | 08:29 | 0.3 | | 09:20 | 0.9 | | 09:08 | 0.4 | | 09:49 | 0.9 |
| | 13:40 | 3.5 | QUA | 14:47 | 3.2 | QUI | 14:43 | 3.5 | SÁB | 15:30 | 2.9 | SÁB | 15:22 | 3.3 | SEG | 15:56 | 2.9 |
| | 19:54 | 0.4 | | 20:50 | 0.8 | | 20:47 | 0.4 | | 21:27 | 1.0 | | 21:20 | 0.6 | | 21:53 | 1.0 |
| 07 | 02:04 | 3.5 | 23 | 03:01 | 3.1 | 07 | 03:05 | 3.6 | 23 | 03:46 | 3.1 | 07 | 03:42 | 3.5 | 23 | 04:12 | 3.1 |
| | 08:08 | 0.4 | | 09:04 | 0.8 | | 09:15 | 0.4 | | 09:56 | 1.0 | | 10:00 | 0.5 | | 10:27 | 0.9 |
| | 14:20 | 3.6 | QUI | 15:17 | 3.1 | SEX | 15:30 | 3.4 | DOM | 16:05 | 2.8 | DOM | 16:13 | 3.2 | TER | 16:33 | 2.9 |
| | 20:31 | 0.3 | | 21:17 | 0.8 | | 21:31 | 0.5 | | 22:01 | 1.1 | | 22:09 | 0.8 | | 22:31 | 1.0 |
| 08 | 02:43 | 3.5 | 24 | 03:31 | 3.1 | 08 | 03:51 | 3.5 | 24 | 04:22 | 3.0 | 08 | 04:32 | 3.4 | 24 | 04:51 | 3.1 |
| | 08:48 | 0.3 | | 09:34 | 0.9 | | 10:04 | 0.5 | | 10:35 | 1.1 | | 10:53 | 0.6 | | 11:07 | 1.0 |
| | 15:02 | 3.7 | SEX | 15:47 | 3.0 | SÁB | 16:20 | 3.2 | SEG | 16:44 | 2.7 | SEG | 17:05 | 3.0 | QUA | 17:15 | 2.8 |
| | 21:10 | 0.3 | | 21:46 | 1.0 | | 22:18 | 0.8 | | 22:40 | 1.2 | | 23:00 | 0.9 | | 23:13 | 1.1 |
| 09 | 03:24 | 3.6 | 25 | 04:01 | 3.0 | 09 | 04:41 | 3.3 | 25 | 05:03 | 2.9 | 09 | 05:25 | 3.3 | 25 | 05:35 | 3.0 |
| | 09:29 | 0.3 | | 10:07 | 1.0 | | 10:59 | 0.7 | | 11:20 | 1.2 | | 11:49 | 0.8 | | 11:51 | 1.0 |
| | 15:45 | 3.5 | SÁB | 16:19 | 2.9 | DOM | 17:15 | 3.0 | TER | 17:29 | 2.6 | TER | 18:01 | 2.9 | QUI | 18:02 | 2.7 |
| | 21:50 | 0.4 | | 22:16 | 1.1 | | 23:10 | 1.0 | | 23:26 | 1.3 | | 23:55 | 1.1 | | | |
| 10 | 04:07 | 3.5 | 26 | 04:35 | 2.9 | 10 | 05:37 | 3.2 | 26 | 05:52 | 2.8 | 10 | 06:21 | 3.1 | 26 | 00:00 | 1.1 |
| | 10:14 | 0.5 | | 10:43 | 1.1 | | 12:02 | 0.9 | | 12:14 | 1.3 | | 12:48 | 1.0 | | 06:24 | 2.9 |
| | 16:32 | 3.3 | DOM | 16:55 | 2.7 | SEG | 18:19 | 2.8 | QUA | 18:26 | 2.5 | QUA | 19:00 | 2.7 | SEX | 12:40 | 1.1 |
| | 22:32 | 0.7 | | 22:51 | 1.3 | | | | | | | | | | | 18:56 | 2.7 |
| 11 | 04:53 | 3.3 | 27 | 05:14 | 2.8 | 11 | 00:14 | 1.2 | 27 | 00:25 | 1.4 | 11 | 00:54 | 1.2 | 27 | 00:55 | 1.2 |
| | 11:04 | 0.7 | | 11:28 | 1.3 | | 06:43 | 3.0 | | 06:52 | 2.7 | | 07:22 | 2.9 | | 07:19 | 2.8 |
| | 17:23 | 3.1 | SEG | 17:40 | 2.5 | TER | 13:18 | 1.1 | QUI | 13:17 | 1.3 | QUI | 13:49 | 1.1 | SÁB | 13:36 | 1.1 |
| | 23:21 | 1.0 | | 23:36 | 1.4 | | 19:34 | 2.6 | | 19:35 | 2.5 | ((| 20:04 | 2.6 |)) | 19:57 | 2.6 |
| 12 | 05:47 | 3.1 | 28 | 06:05 | 2.6 | 12 | 01:31 | 1.4 | 28 | 01:35 | 1.4 | 12 | 01:59 | 1.3 | 28 | 01:58 | 1.2 |
| | 12:05 | 1.0 | | 12:29 | 1.4 | | 07:59 | 2.8 | | 08:00 | 2.7 | | 08:26 | 2.8 | | 08:21 | 2.8 |
| | 18:26 | 2.8 | TER | 18:44 | 2.4 | QUA | 14:39 | 1.2 | SEX | 14:27 | 1.3 | SEX | 14:55 | 1.2 | DOM | 14:40 | 1.1 |
| | | | | | | ((| 20:57 | 2.5 |)) | 20:49 | 2.5 | | 21:11 | 2.5 | | 21:03 | 2.7 |
| 13 | 00:22 | 1.3 | 29 | 00:44 | 1.6 | 13 | 02:56 | 1.4 | 29 | 02:51 | 1.4 | 13 | 03:09 | 1.4 | 29 | 03:09 | 1.2 |
| | 06:54 | 2.9 | | 07:18 | 2.5 | | 09:18 | 2.8 | | 09:09 | 2.7 | | 09:31 | 2.7 | | 09:28 | 2.8 |
| | 13:28 | 1.2 | QUA | 13:54 | 1.5 | QUI | 15:56 | 1.2 | SÁB | 15:36 | 1.2 | SÁB | 16:00 | 1.2 | SEG | 15:48 | 1.1 |
| | ((| 19:48 | 2.5 |)) | 20:16 | 2.3 | 22:11 | 2.6 | | 21:56 | 2.6 | | 22:14 | 2.5 | | 22:11 | 2.7 |
| 14 | 01:50 | 1.5 | 30 | 02:20 | 1.6 | 14 | 04:11 | 1.4 | 30 | 04:00 | 1.2 | 14 | 04:18 | 1.4 | 30 | 04:22 | 1.1 |
| | 08:21 | 2.7 | | 08:46 | 2.5 | | 10:26 | 2.8 | | 10:13 | 2.8 | | 10:32 | 2.7 | | 10:35 | 2.8 |
| | 15:08 | 1.3 | QUI | 15:24 | 1.4 | SEX | 16:57 | 1.1 | DOM | 16:36 | 1.0 | DOM | 16:56 | 1.2 | TER | 16:53 | 1.0 |
| | 21:28 | 2.5 | | 21:47 | 2.4 | | 23:07 | 2.7 | | 22:53 | 2.8 | | 23:08 | 2.6 | | 23:13 | 2.9 |
| 15 | 03:31 | 1.5 | 31 | 03:48 | 1.5 | 15 | 05:09 | 1.2 | 15 | 05:15 | 1.3 | 15 | 05:15 | 1.3 | 31 | 05:27 | 1.0 |
| | 09:53 | 2.8 | | 10:02 | 2.7 | | 11:20 | 2.9 | | 11:25 | 2.7 | | 11:25 | 2.7 | | 11:39 | 2.9 |
| | 16:35 | 1.2 | SEX | 16:33 | 1.2 | SÁB | 17:43 | 1.0 | SEG | 17:41 | 1.2 | SEG | 17:41 | 1.2 | QUA | 17:51 | 0.9 |
| | 22:49 | 2.6 | | 22:48 | 2.6 | | 23:51 | 2.8 | | 23:54 | 2.7 | | | | | | |
| 16 | 04:50 | 1.4 | | | | 16 | 05:55 | 1.1 | 16 | 06:03 | 1.2 | 16 | 06:03 | 1.2 | | | |
| | 11:03 | 2.9 | | | | | 12:04 | 2.9 | | 12:11 | 2.7 | | 12:11 | 2.7 | | | |
| | 17:35 | 1.1 | | | | DOM | 18:21 | 1.0 | | 18:21 | 1.1 | | | | | | |
| | 23:43 | 2.8 | | | | | | | | | | | | | | | |

SETÚBAL (TROIA)



PORTO DE SETÚBAL (TROIA)

NOTAS

1. ANÁLISE HARMÓNICA:

— Efetuada a partir de um ano de observações maregráficas, de 1 de janeiro de 2011 a 2 de janeiro de 2012.

2. LOCALIZAÇÃO DO MARÉGRAFO:

— Na ponte-cais dos *ferry-boats* de passageiros, em Troia:
Latitude 38° 29,67' N; Longitude 8° 54,05' W – WGS84.

3. ALTURAS DE MARÉ:

— Referidas ao nível do zero hidrográfico.
— Nível médio: 2,00 m.

4. ZERO HIDROGRÁFICO:

— 2,00 m abaixo do nível médio adotado (Cascais, 1938).
— 4,840* m abaixo da marca IH BH 30/2011 cimentada no antigo cais leste de atracação dos *ferrys*, junto ao abrigo do marégrafo.
— 5,223** m abaixo da marca IH BH 31/2011.
— 5,302** m abaixo da marca IH BH 32/2011 no interior do abrigo do marégrafo, junto ao poço.

* A cota da marca IH BH 30/2011 foi obtida com recurso ao GGPS (forçada com cotas de pontos nivelados geometricamente: IH BH 28/99 e IH BH 5/2011).

** As cotas das marcas IH BH 31/2011 e IH BH 32/2011 foram obtidas por nivelamento geométrico a partir da marca IH BH 30/2011.

5. ALTURAS HORÁRIAS:

— As alturas horárias previstas, das páginas 2 – 83 a 2 – 94, não devem ser utilizadas para o interior do estuário.

O seu cálculo foi efetuado com base nas constantes harmónicas do porto de Setúbal (Troia).

Porto de Setúbal (Troia)

Latitude 38° 29.67' N Longitude 8° 54.05' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JANEIRO | | | | FEVEREIRO | | | | MARÇO | | | | | | | | | | | | | | | |
|-----------|-------|--------|-----------|-----------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-------|-----------|-------|-------|-------|-------|-----|-------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | | | | | | | |
| 01 | 03:36 | 3.3 | 17 | 04:56 | 3.4 | 01 | 04:44 | 3.6 | 17 | 05:30 | 3.1 | 01 | 03:44 | 3.7 | 17 | 04:29 | 3.3 | | | | | | |
| | 09:49 | 0.6 | | 11:08 | 0.7 | | 10:54 | 0.4 | | 11:36 | 0.9 | | 09:54 | 0.2 | | 10:32 | 0.7 | | | | | | |
| | 16:01 | 3.1 | | SEX | 17:16 | | 3.0 | SÁB | | 17:08 | 3.3 | | SEG | 17:46 | | 3.0 | SÁB | 16:07 | 3.5 | SEG | 16:43 | 3.2 | |
| | 21:58 | 0.7 | | 23:11 | 0.8 | | 23:05 | 0.5 | | 23:44 | 0.9 | | 22:07 | 0.3 | | 22:44 | 0.7 | | | | | | |
| 02 | 04:17 | 3.4 | 18 | 05:31 | 3.2 | 02 | 05:25 | 3.5 | 18 | 06:01 | 3.0 | 02 | 04:24 | 3.7 | 18 | 04:58 | 3.1 | | | | | | |
| | 10:30 | 0.6 | | 11:42 | 0.8 | | 11:34 | 0.4 | | 12:05 | 1.0 | | 10:32 | 0.2 | | 10:59 | 0.8 | | | | | | |
| | QUI | 16:42 | | 3.1 | SÁB | | 17:51 | 2.9 | | DOM | 17:49 | | 3.3 | TER | | 18:18 | 2.8 | DOM | 16:46 | 3.5 | TER | 17:11 | 3.1 |
| | 22:38 | 0.7 | | 23:46 | 0.9 | | 23:46 | 0.6 | | 23:46 | 0.6 | | 22:46 | 0.3 | | 23:13 | 0.9 | | | | | | |
| 03 | 04:58 | 3.4 | 19 | 06:06 | 3.1 | 03 | 06:08 | 3.4 | 19 | 00:17 | 1.1 | 03 | 05:05 | 3.7 | 19 | 05:27 | 2.9 | | | | | | |
| | 11:11 | 0.6 | | 12:17 | 0.9 | | 12:15 | 0.6 | | 06:34 | 2.8 | | 11:10 | 0.3 | | 11:25 | 1.0 | | | | | | |
| | SEX | 17:25 | | 3.1 | DOM | | 18:27 | 2.8 | | SEG | 18:33 | | 3.1 | QUA | | 12:37 | 1.2 | SEG | 17:26 | 3.4 | QUA | 17:41 | 2.9 |
| | 23:19 | 0.8 | | 19:06 | 2.7 | | 19:06 | 2.7 | | 18:56 | 2.7 | | 23:26 | 0.5 | | 23:43 | 1.0 | | | | | | |
| 04 | 05:41 | 3.3 | 20 | 00:23 | 1.1 | 04 | 00:31 | 0.8 | 20 | 00:58 | 1.3 | 04 | 05:47 | 3.4 | 20 | 05:58 | 2.8 | | | | | | |
| | 11:53 | 0.6 | | 06:43 | 2.9 | | 06:55 | 3.2 | | 07:16 | 2.6 | | 11:50 | 0.6 | | 11:53 | 1.2 | | | | | | |
| | SÁB | 18:10 | | 3.0 | SEG | | 12:55 | 1.1 | | TER | 13:01 | | 0.8 | QUI | | 13:19 | 1.4 | TER | 18:08 | 3.2 | QUI | 18:15 | 2.8 |
| | | | | | 19:06 | | 2.7 | 19:23 | | 3.0 | 19:23 | | 3.0 | 19:47 | | 2.5 | | | | | | | |
| 05 | 00:04 | 0.8 | 21 | 01:04 | 1.2 | 05 | 01:23 | 1.0 | 21 | 01:58 | 1.5 | 05 | 00:10 | 0.7 | 21 | 00:20 | 1.2 | | | | | | |
| | 06:27 | 3.2 | | 07:25 | 2.7 | | 07:50 | 3.0 | | 08:18 | 2.4 | | 06:33 | 3.2 | | 06:36 | 2.6 | | | | | | |
| | DOM | 12:40 | | 0.7 | TER | | 13:38 | 1.3 | | QUA | 13:57 | | 1.0 | SEX | | 14:30 | 1.5 | QUA | 12:34 | 0.9 | SEX | 12:29 | 1.3 |
| | 18:59 | 2.9 | | ((| 19:54 | | 2.6 |) | | 20:24 | 2.8 | | 21:07 | 2.4 | | 18:57 | 3.0 | 19:01 | 2.6 | | | | |
| 06 | 00:53 | 0.9 | 22 | 01:57 | 1.4 | 06 | 02:31 | 1.1 | 22 | 03:41 | 1.5 | 06 | 01:03 | 0.9 | 22 | 01:14 | 1.4 | | | | | | |
| | 07:19 | 3.1 | | 08:17 | 2.6 | | 09:00 | 2.7 | | 09:59 | 2.3 | | 07:28 | 2.9 | | 07:35 | 2.4 | | | | | | |
| | SEG | 13:32 | | 0.9 | QUA | | 14:35 | 1.4 | | QUI | 15:09 | | 1.2 | SÁB | | 16:17 | 1.5 | QUI | 13:28 | 1.1 | SÁB | 13:29 | 1.5 |
| |) | 19:54 | | 2.8 | 20:56 | | 2.5 | 21:43 | | 2.7 | 22:43 | | 2.5 |) | | 19:58 | 2.8 | ((| 20:15 | 2.5 | | | |
| 07 | 01:51 | 1.1 | 23 | 03:09 | 1.5 | 07 | 04:01 | 1.2 | 23 | 05:15 | 1.4 | 07 | 02:14 | 1.2 | 23 | 02:54 | 1.5 | | | | | | |
| | 08:18 | 3.0 | | 09:28 | 2.4 | | 10:28 | 2.6 | | 11:32 | 2.4 | | 08:43 | 2.6 | | 09:18 | 2.3 | | | | | | |
| | TER | 14:33 | | 1.0 | QUI | | 15:49 | 1.4 | | SEX | 16:39 | | 1.3 | DOM | | 17:39 | 1.4 | SEX | 14:46 | 1.4 | DOM | 15:30 | 1.6 |
| | 20:59 | 2.8 | | 22:12 | 2.5 | | 23:10 | 2.7 | | 23:57 | 2.7 | | 21:25 | 2.7 | | 22:01 | 2.5 | | | | | | |
| 08 | 03:01 | 1.1 | 24 | 04:32 | 1.4 | 08 | 05:34 | 1.2 | 24 | 06:21 | 1.2 | 08 | 03:57 | 1.3 | 24 | 04:42 | 1.4 | | | | | | |
| | 09:28 | 2.9 | | 10:48 | 2.4 | | 11:53 | 2.7 | | 12:35 | 2.6 | | 10:25 | 2.5 | | 11:02 | 2.4 | | | | | | |
| | QUA | 15:44 | | 1.1 | SEX | | 17:03 | 1.4 | | SÁB | 17:59 | | 1.2 | SÁB | | 16:31 | 1.4 | SEG | 17:08 | 1.4 | | | |
| | 22:12 | 2.8 | | 23:24 | 2.6 | | | | | | | | 23:02 | 2.7 | | 23:24 | 2.7 | | | | | | |
| 09 | 04:21 | 1.1 | 25 | 05:43 | 1.3 | 09 | 00:22 | 2.9 | 25 | 00:53 | 2.9 | 09 | 05:36 | 1.2 | 25 | 05:52 | 1.2 | | | | | | |
| | 10:44 | 2.9 | | 11:57 | 2.5 | | 06:45 | 1.0 | | 07:12 | 0.9 | | 11:53 | 2.6 | | 12:08 | 2.7 | | | | | | |
| | QUI | 16:59 | | 1.1 | SÁB | | 18:04 | 1.3 | | DOM | 12:58 | | 2.8 | TER | | 13:25 | 2.9 | DOM | 17:55 | 1.3 | TER | 18:11 | 1.2 |
| | 23:23 | 2.9 | | | | | | 19:01 | | 1.1 | 19:26 | | 1.0 | | | | | | | | | | |
| 10 | 05:37 | 1.0 | 26 | 00:23 | 2.7 | 10 | 01:19 | 3.1 | 26 | 01:40 | 3.2 | 10 | 00:15 | 2.9 | 26 | 00:23 | 3.0 | | | | | | |
| | 11:55 | 2.9 | | 06:41 | 1.2 | | 07:40 | 0.8 | | 07:56 | 0.7 | | 06:41 | 1.0 | | 06:43 | 0.9 | | | | | | |
| | SEX | 18:05 | | 1.0 | DOM | | 12:54 | 2.7 | | SEG | 13:49 | | 3.0 | QUA | | 14:08 | 3.1 | SEG | 12:52 | 2.8 | QUA | 12:58 | 3.0 |
| | | | | | 18:57 | | 1.1 | 19:49 | | 0.9 | 20:09 | | 0.7 | 18:51 | | 1.1 | 19:00 | 0.9 | | | | | |
| 11 | 00:27 | 3.0 | 27 | 01:14 | 2.9 | 11 | 02:07 | 3.3 | 27 | 02:23 | 3.4 | 11 | 01:07 | 3.1 | 27 | 01:12 | 3.2 | | | | | | |
| | 06:42 | 0.9 | | 07:31 | 1.0 | | 08:23 | 0.7 | | 08:37 | 0.4 | | 07:27 | 0.8 | | 07:28 | 0.6 | | | | | | |
| | SÁB | 12:58 | | 3.0 | SEG | | 13:43 | 2.9 | | TER | 14:32 | | 3.1 | QUI | | 14:49 | 3.3 | TER | 13:35 | 2.9 | QUI | 13:41 | 3.2 |
| | 19:03 | 0.9 | | 19:44 | 1.0 | | 20:30 | 0.8 | | 20:50 | 0.5 | | 19:34 | 0.9 | | 19:43 | 0.6 | | | | | | |
| 12 | 01:23 | 3.2 | 28 | 02:00 | 3.1 | 12 | 02:48 | 3.4 | 28 | 03:04 | 3.6 | 12 | 01:49 | 3.2 | 28 | 01:56 | 3.5 | | | | | | |
| | 07:39 | 0.8 | | 08:16 | 0.8 | | 09:01 | 0.6 | | 09:16 | 0.3 | | 08:04 | 0.7 | | 08:09 | 0.4 | | | | | | |
| | DOM | 13:53 | | 3.1 | TER | | 14:27 | 3.0 | | QUA | 15:09 | | 3.2 | QUA | | 14:12 | 3.1 | SEX | 14:22 | 3.4 | | | |
| | 19:54 | 0.8 | | 20:27 | 0.8 | | 21:07 | 0.7 | | 21:29 | 0.4 | | 20:10 | 0.8 | | 20:25 | 0.4 | | | | | | |
| 13 | 02:14 | 3.3 | 29 | 02:43 | 3.3 | 13 | 03:24 | 3.4 | 29 | 03:04 | 3.6 | 13 | 02:26 | 3.3 | 29 | 02:39 | 3.7 | | | | | | |
| | 08:30 | 0.6 | | 08:57 | 0.6 | | 09:35 | 0.5 | | 08:37 | 0.6 | | 08:49 | 0.2 | | | | | | | | | |
| | SEG | 14:41 | | 3.1 | QUA | | 15:09 | 3.2 | | QUI | 15:44 | | 3.2 | QUI | | 14:45 | 3.2 | SÁB | 15:03 | 3.6 | | | |
| | ○ | 20:40 | | 0.7 | ● | | 21:08 | 0.6 | | 21:41 | 0.6 | | 20:43 | 0.7 | | ● | 21:05 | 0.3 | | | | | |
| 14 | 02:59 | 3.4 | 30 | 03:24 | 3.5 | 14 | 03:58 | 3.4 | 30 | 02:59 | 3.4 | 14 | 02:59 | 3.4 | 30 | 03:20 | 3.8 | | | | | | |
| | 09:15 | 0.6 | | 09:37 | 0.4 | | 10:07 | 0.5 | | 10:07 | 0.5 | | 09:07 | 0.6 | | 09:29 | 0.2 | | | | | | |
| | TER | 15:25 | | 3.2 | QUI | | 15:49 | 3.3 | | SEX | 16:16 | | 3.2 | SEX | | 15:16 | 3.2 | DOM | 15:42 | 3.6 | | | |
| | 21:22 | 0.7 | | 21:47 | 0.5 | | 22:13 | 0.6 | | 22:13 | 0.6 | | 21:15 | 0.6 | | 21:45 | 0.2 | | | | | | |
| 15 | 03:41 | 3.4 | 31 | 04:04 | 3.6 | 15 | 04:30 | 3.4 | 31 | 03:30 | 3.4 | 15 | 03:30 | 3.4 | 31 | 04:02 | 3.7 | | | | | | |
| | 09:55 | 0.5 | | 10:16 | 0.4 | | 10:38 | 0.6 | | 10:38 | 0.6 | | 09:37 | 0.6 | | 10:07 | 0.2 | | | | | | |
| | QUA | 16:04 | | 3.1 | SEX | | 16:29 | 3.4 | | SÁB | 16:46 | | 3.2 | SÁB | | 15:46 | 3.3 | SEG | 16:22 | 3.6 | | | |
| | 22:00 | 0.7 | | 22:26 | 0.5 | | 22:43 | 0.7 | | 22:43 | 0.7 | | 21:45 | 0.6 | | 22:26 | 0.3 | | | | | | |
| 16 | 04:20 | 3.4 | 16 | 05:00 | 3.3 | 16 | 05:00 | 3.3 | 16 | 04:00 | 3.4 | 16 | 04:00 | 3.4 | | | | | | | | | |
| | 10:32 | 0.6 | | 11:07 | 0.7 | | 11:07 | 0.7 | | 10:05 | 0.6 | | 10:05 | 0.6 | | | | | | | | | |
| | QUI | 16:41 | | 3.1 | DOM | | 17:16 | 3.1 | | DOM | 16:15 | | 3.2 | DOM | 16:15 | 3.2 | | | | | | | |
| | 22:36 | 0.7 | | 23:14 | 0.8 | | 23:14 | 0.8 | | 22:15 | 0.6 | | 22:15 | 0.6 | | | | | | | | | |

Porto de Setúbal (Troia)

Latitude 38° 29.67' N Longitude 8° 54.05' W

Horas do Fuso: 0 (TU)

Ano: 2025

| ABRIL | | | | MAIO | | | | JUNHO | | | | | | | | | |
|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 04:44 10:46 TER 17:03 23:08 | 3.6 0.4 3.5 0.4 | 17 | 05:01 10:56 QUI 17:15 23:22 | 2.9 1.0 3.0 1.0 | 01 | 05:12 11:09 QUI 17:31 23:44 | 3.2 0.7 3.3 0.7 | 17 | 05:24 11:14 SÁB 17:41 23:55 | 2.8 1.1 2.9 1.1 | 01 | 00:29 06:44 DOM 12:34 19:03 | 0.9 2.8 1.1 3.0 | 17 | 00:36 06:54 TER 12:46 19:12 | 0.9 2.8 1.1 3.0 |
| 02 | 05:27 11:27 QUA 17:47 23:54 | 3.4 0.6 3.3 0.7 | 18 | 05:35 11:26 SEX 17:51 | 2.7 1.1 2.8 | 02 | 06:03 11:56 SEX 18:24 | 3.0 1.0 3.1 | 18 | 06:11 11:59 DOM 18:30 | 2.6 1.2 2.8 | 02 | 01:26 07:41 SEG 13:32 20:02 | 1.0 2.6 1.3 2.9 | 18 | 01:30 07:52 QUA 13:45 20:11 | 1.0 2.7 1.2 2.9 |
| 03 | 06:16 12:12 QUI 18:37 | 3.1 0.9 3.0 | 19 | 00:01 06:17 SÁB 12:05 18:39 | 1.2 2.6 1.3 2.7 | 03 | 00:43 07:03 SÁB 12:54 19:27 | 0.9 2.7 1.2 2.9 | 19 | 00:49 07:09 SEG 12:59 19:31 | 1.1 2.6 1.3 2.8 | 03 | 02:26 08:44 TER 14:37 21:05 | 1.1 2.5 1.3 2.8 | 19 | 02:31 08:56 QUI 14:54 21:17 | 1.0 2.8 1.2 2.9 |
| 04 | 00:51 07:14 SEX 13:09 19:42 | 1.0 2.7 1.2 2.8 | 20 | 00:57 07:18 DOM 13:06 19:48 | 1.3 2.4 1.5 2.6 | 04 | 01:54 08:15 DOM 14:07 20:42 | 1.1 2.5 1.4 2.8 | 20 | 01:57 08:21 TER 14:16 20:43 | 1.2 2.6 1.4 2.8 | 04 | 03:29 09:49 QUA 15:44 22:09 | 1.2 2.6 1.3 2.7 | 20 | 03:38 10:04 SEX 16:07 22:27 | 1.0 2.8 1.1 3.0 |
| 05 | 02:07 08:34 SÁB 14:30 21:09 | 1.2 2.5 1.4 2.7 | 21 | 02:23 08:48 SEG 14:48 21:19 | 1.4 2.4 1.5 2.6 | 05 | 03:15 09:37 SEG 15:30 22:00 | 1.2 2.5 1.4 2.7 | 21 | 03:13 09:38 QUA 15:38 21:57 | 1.1 2.6 1.3 2.9 | 05 | 04:29 10:49 QUI 16:47 23:07 | 1.2 2.6 1.3 2.7 | 21 | 04:45 11:09 SÁB 17:16 23:33 | 0.9 3.0 1.0 3.0 |
| 06 | 03:48 10:13 DOM 16:11 22:42 | 1.3 2.5 1.4 2.7 | 22 | 03:59 10:22 TER 16:26 22:42 | 1.3 2.5 1.4 2.8 | 06 | 04:31 10:50 TER 16:44 23:08 | 1.2 2.6 1.3 2.8 | 22 | 04:24 10:47 QUI 16:49 23:04 | 1.0 2.8 1.1 3.0 | 06 | 05:21 11:39 SEX 17:41 23:57 | 1.1 2.7 1.2 2.8 | 22 | 05:47 12:08 DOM 18:18 | 0.8 3.1 0.8 |
| 07 | 05:17 11:34 SEG 17:31 23:51 | 1.2 2.6 1.3 2.9 | 23 | 05:11 11:30 QUA 17:33 23:45 | 1.1 2.7 1.2 3.0 | 07 | 05:29 11:45 QUA 17:41 23:59 | 1.1 2.7 1.2 2.9 | 23 | 05:25 11:44 SEX 17:49 | 0.8 3.0 0.9 | 07 | 06:06 12:23 SÁB 18:27 | 1.1 2.8 1.1 | 23 | 00:33 06:43 SEG 13:02 19:16 | 3.1 0.7 3.2 0.7 |
| 08 | 06:15 12:27 TER 18:24 | 1.0 2.8 1.1 | 24 | 06:06 12:23 QUI 18:26 | 0.8 3.0 0.9 | 08 | 06:14 12:27 QUI 18:26 | 1.0 2.8 1.1 | 24 | 00:03 06:18 SÁB 12:35 18:42 | 3.2 0.7 3.2 0.7 | 08 | 00:41 06:47 DOM 13:03 19:10 | 2.8 1.0 2.9 1.0 | 24 | 01:30 07:36 TER 13:55 20:10 | 3.2 0.7 3.4 0.6 |
| 09 | 00:40 06:57 QUA 13:07 19:05 | 3.0 0.9 2.9 1.0 | 25 | 00:37 06:54 SEX 13:09 19:13 | 3.2 0.6 3.3 0.6 | 09 | 00:42 06:51 SEX 13:04 19:05 | 3.0 0.9 3.0 0.9 | 25 | 00:56 07:07 DOM 13:24 19:32 | 3.3 0.5 3.4 0.5 | 09 | 01:22 07:25 SEG 13:42 19:50 | 2.9 1.0 3.0 0.9 | 25 | 02:24 08:26 QUA 14:46 21:01 | 3.2 0.6 3.4 0.5 |
| 10 | 01:20 07:32 QUI 13:41 19:40 | 3.1 0.8 3.1 0.8 | 26 | 01:25 07:38 SÁB 13:52 19:57 | 3.5 0.4 3.5 0.4 | 10 | 01:19 07:25 SÁB 13:38 19:41 | 3.0 0.8 3.1 0.8 | 26 | 01:46 07:54 SEG 14:11 20:21 | 3.4 0.5 3.5 0.4 | 10 | 02:02 08:03 TER 14:20 20:30 | 2.9 0.9 3.1 0.9 | 26 | 03:15 09:13 QUI 15:34 21:50 | 3.2 0.6 3.5 0.5 |
| 11 | 01:55 08:04 SEX 14:13 20:14 | 3.2 0.7 3.2 0.7 | 27 | 02:11 08:21 DOM 14:35 20:41 | 3.6 0.3 3.6 0.3 | 11 | 01:54 07:58 DOM 14:12 20:16 | 3.1 0.8 3.1 0.8 | 27 | 02:36 08:40 TER 14:58 21:09 | 3.4 0.5 3.5 0.4 | 11 | 02:41 08:40 QUA 14:57 21:09 | 2.9 0.9 3.2 0.8 | 27 | 04:02 09:59 SEX 16:20 22:35 | 3.2 0.7 3.5 0.5 |
| 12 | 02:28 08:34 SÁB 14:44 20:46 | 3.3 0.6 3.2 0.7 | 28 | 02:56 09:02 SEG 15:18 21:25 | 3.7 0.3 3.6 0.3 | 12 | 02:29 08:31 SEG 14:45 20:51 | 3.1 0.8 3.2 0.8 | 28 | 03:25 09:25 QUA 15:44 21:57 | 3.4 0.5 3.5 0.4 | 12 | 03:20 09:17 QUI 15:35 21:47 | 2.9 0.9 3.2 0.8 | 28 | 04:47 10:42 SÁB 17:04 23:19 | 3.1 0.7 3.4 0.6 |
| 13 | 03:00 09:04 DOM 15:15 21:17 | 3.3 0.6 3.3 0.6 | 29 | 03:41 09:44 TER 16:01 22:09 | 3.6 0.3 3.6 0.3 | 13 | 03:03 09:03 TER 15:18 21:25 | 3.1 0.8 3.2 0.8 | 29 | 04:13 10:10 QUI 16:31 22:45 | 3.3 0.6 3.4 0.5 | 13 | 03:58 09:53 SEX 16:13 22:26 | 2.9 0.9 3.2 0.8 | 29 | 05:31 11:24 DOM 17:47 | 3.0 0.8 3.3 |
| 14 | 03:30 09:32 SEG 15:44 21:48 | 3.2 0.7 3.2 0.7 | 30 | 04:26 10:25 QUA 16:44 22:54 | 3.4 0.5 3.5 0.5 | 14 | 03:36 09:34 QUA 15:51 21:59 | 3.0 0.8 3.2 0.8 | 30 | 05:01 10:55 SEX 17:19 23:35 | 3.1 0.8 3.3 0.7 | 14 | 04:37 10:30 SÁB 16:52 23:05 | 2.9 0.9 3.2 0.8 | 30 | 00:03 06:14 SEG 12:06 18:31 | 0.8 2.9 1.0 3.1 |
| 15 | 04:00 10:00 TER 16:14 22:18 | 3.1 0.7 3.2 0.8 | 15 | 04:10 10:06 QUI 16:24 22:34 | 3.0 0.9 3.1 0.9 | 15 | 04:10 10:06 QUI 16:24 22:34 | 3.0 0.9 3.1 0.9 | 31 | 05:51 11:43 SÁB 18:09 | 2.9 0.9 3.2 | 15 | 05:18 11:10 DOM 17:34 23:48 | 2.9 1.0 3.1 0.9 | 16 | 06:03 11:54 SEG 18:20 | 2.8 1.0 3.1 |
| 16 | 04:30 10:28 QUA 16:44 22:49 | 3.0 0.9 3.1 0.9 | 16 | 04:46 10:38 SEX 17:00 23:11 | 2.9 1.0 3.0 1.0 | 16 | 04:46 10:38 SEX 17:00 23:11 | 2.9 1.0 3.0 1.0 | | | | | | | | | |

Porto de Setúbal (Troia)

Latitude 38° 29.67' N Longitude 8° 54.05' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JULHO | | | | AGOSTO | | | | SETEMBRO | | | | | | | | | |
|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 00:47 06:59 TER 12:52 19:17 | 0.9 2.7 1.1 2.9 | 17 | 01:01 07:21 QUI 13:17 19:42 | 0.8 2.9 1.0 3.0 | 01 | 01:23 07:39 SEX 13:40 20:00 | 1.2 2.6 1.3 2.6 | 17 | 02:28 09:01 DOM 15:17 21:44 | 1.2 2.7 1.2 2.7 | 01 | 02:15 08:53 SEG 15:27 21:42 | 1.5 2.4 1.6 2.3 | 17 | 05:21 11:43 QUA 18:11 | 1.3 2.9 1.0 |
| 02 | 01:34 07:47 QUA 13:42 20:07 | 1.1 2.6 1.2 2.8 | 18 | 01:54 08:19 SEX 14:19 20:44 | 0.9 2.8 1.1 2.9 | 02 | 02:15 08:37 SÁB 14:47 21:05 | 1.4 2.5 1.4 2.4 | 18 | 03:54 10:29 SEG 16:54 23:14 | 1.3 2.7 1.2 2.7 | 02 | 04:01 10:29 TER 17:02 23:16 | 1.6 2.5 1.5 2.4 | 18 | 00:22 06:23 QUI 12:40 19:01 | 2.8 1.1 3.1 0.8 |
| 03 | 02:26 08:42 QUI 14:41 21:04 | 1.2 2.6 1.3 2.7 | 19 | 02:59 09:27 SÁB 15:34 21:58 | 1.0 2.8 1.1 2.8 | 03 | 03:25 09:51 DOM 16:10 22:26 | 1.4 2.5 1.5 2.4 | 19 | 05:22 11:48 TER 18:13 | 1.2 2.9 1.0 | 03 | 05:23 11:42 QUA 18:07 | 1.4 2.6 1.3 | 19 | 01:10 07:09 SEX 13:25 19:41 | 3.0 0.9 3.3 0.7 |
| 04 | 03:24 09:44 SEX 15:48 22:08 | 1.3 2.5 1.4 2.6 | 20 | 04:13 10:41 DOM 16:56 23:15 | 1.1 2.8 1.1 2.8 | 04 | 04:41 11:05 SEG 17:26 23:40 | 1.4 2.6 1.4 2.5 | 20 | 00:27 06:30 QUA 12:51 19:13 | 2.8 1.1 3.1 0.8 | 04 | 00:19 06:21 QUI 12:36 18:56 | 2.6 1.2 2.9 1.0 | 20 | 01:49 07:48 SÁB 14:04 20:16 | 3.1 0.7 3.4 0.6 |
| 05 | 04:25 10:46 SÁB 16:54 23:11 | 1.3 2.6 1.3 2.6 | 21 | 05:26 11:51 SEG 18:09 | 1.0 3.0 1.0 | 05 | 05:46 12:08 TER 18:27 | 1.3 2.7 1.2 | 21 | 01:23 07:23 QUI 13:42 20:00 | 2.9 0.9 3.3 0.7 | 05 | 01:07 07:07 SEX 13:21 19:38 | 2.8 1.0 3.1 0.8 | 21 | 02:25 08:23 DOM 14:39 20:49 | 3.2 0.6 3.5 0.5 |
| 06 | 05:22 11:43 DOM 17:53 | 1.3 2.7 1.3 | 22 | 00:25 06:31 TER 12:53 19:12 | 2.9 1.0 3.1 0.8 | 06 | 00:39 06:40 QUA 12:59 19:17 | 2.6 1.2 2.9 1.1 | 22 | 02:09 08:08 SEX 14:26 20:41 | 3.1 0.7 3.4 0.5 | 06 | 01:48 07:49 SÁB 14:02 20:17 | 3.0 0.8 3.3 0.6 | 22 | 02:57 08:56 SEG 15:12 21:19 | 3.3 0.6 3.4 0.5 |
| 07 | 00:07 06:13 SEG 12:32 18:45 | 2.6 1.2 2.8 1.1 | 23 | 01:25 07:28 QUA 13:49 20:07 | 3.0 0.8 3.3 0.7 | 07 | 01:28 07:27 QUI 13:44 20:01 | 2.8 1.0 3.1 0.9 | 23 | 02:49 08:47 SÁB 15:05 21:17 | 3.2 0.6 3.5 0.5 | 07 | 02:27 08:28 DOM 14:42 20:54 | 3.2 0.6 3.5 0.4 | 23 | 03:29 09:28 TER 15:44 21:49 | 3.3 0.6 3.4 0.6 |
| 08 | 00:57 06:59 TER 13:18 19:32 | 2.7 1.1 2.9 1.0 | 24 | 02:19 08:18 QUI 14:38 20:55 | 3.1 0.7 3.4 0.5 | 08 | 02:11 08:10 SEX 14:26 20:41 | 2.9 0.9 3.2 0.7 | 24 | 03:26 09:23 DOM 15:41 21:51 | 3.2 0.6 3.5 0.5 | 08 | 03:06 09:06 SEG 15:21 21:31 | 3.4 0.4 3.6 0.3 | 24 | 03:59 09:59 QUA 16:14 22:17 | 3.2 0.6 3.3 0.7 |
| 09 | 01:43 07:43 QUA 14:01 20:16 | 2.8 1.0 3.1 0.9 | 25 | 03:06 09:03 SEX 15:23 21:38 | 3.2 0.7 3.5 0.5 | 09 | 02:51 08:50 SÁB 15:06 21:19 | 3.1 0.7 3.4 0.5 | 25 | 03:59 09:56 SEG 16:14 22:22 | 3.2 0.6 3.5 0.5 | 09 | 03:44 09:44 TER 16:00 22:08 | 3.5 0.4 3.7 0.3 | 25 | 04:28 10:29 QUI 16:43 22:44 | 3.2 0.7 3.1 0.8 |
| 10 | 02:26 08:25 QUI 14:43 20:57 | 2.9 0.9 3.2 0.8 | 26 | 03:48 09:44 SÁB 16:04 22:17 | 3.2 0.6 3.5 0.5 | 10 | 03:30 09:28 DOM 15:45 21:56 | 3.2 0.6 3.5 0.4 | 26 | 04:31 10:29 TER 16:46 22:53 | 3.2 0.6 3.3 0.7 | 10 | 04:22 10:22 QUA 16:39 22:45 | 3.5 0.4 3.6 0.3 | 26 | 04:57 10:59 SEX 17:12 23:12 | 3.0 0.9 2.9 1.0 |
| 11 | 03:07 09:05 SEX 15:23 21:37 | 3.0 0.8 3.3 0.7 | 27 | 04:27 10:22 DOM 16:42 22:54 | 3.2 0.6 3.5 0.6 | 11 | 04:08 10:06 SEG 16:23 22:33 | 3.3 0.5 3.6 0.4 | 27 | 05:02 11:00 QUA 17:17 23:23 | 3.1 0.7 3.2 0.8 | 11 | 05:01 11:01 QUI 17:20 23:24 | 3.4 0.5 3.5 0.5 | 27 | 05:27 11:30 SÁB 17:43 23:40 | 2.9 1.1 2.7 1.2 |
| 12 | 03:47 09:44 SÁB 16:02 22:15 | 3.0 0.8 3.3 0.6 | 28 | 05:03 10:58 SEG 17:19 23:29 | 3.1 0.7 3.3 0.7 | 12 | 04:46 10:43 TER 17:02 23:10 | 3.3 0.5 3.5 0.4 | 28 | 05:33 11:32 QUI 17:48 23:53 | 3.0 0.9 3.0 1.0 | 12 | 05:42 11:43 SEX 18:05 | 3.3 0.6 3.2 | 28 | 06:01 12:07 DOM 18:21 | 2.7 1.3 2.5 |
| 13 | 04:26 10:22 DOM 16:41 22:53 | 3.1 0.8 3.3 0.6 | 29 | 05:39 11:34 TER 17:54 | 3.0 0.8 3.2 | 13 | 05:25 11:22 QUA 17:42 23:49 | 3.3 0.6 3.4 0.6 | 29 | 06:06 12:05 SEX 18:22 | 2.8 1.1 2.8 | 13 | 00:06 06:28 SÁB 12:33 18:57 | 0.8 3.1 0.9 2.9 | 29 | 00:14 06:47 SEG 13:00 19:18 | 1.4 2.6 1.4 2.3 |
| 14 | 05:06 11:01 SEG 17:21 23:33 | 3.1 0.8 3.3 0.6 | 30 | 00:05 06:15 QUA 12:10 18:31 | 0.9 2.9 1.0 3.0 | 14 | 06:07 12:04 QUI 18:26 | 3.2 0.7 3.3 | 30 | 00:25 06:43 SÁB 12:46 19:03 | 1.2 2.7 1.3 2.6 | 14 | 00:57 07:26 DOM 13:39 20:07 | 1.1 2.9 1.1 2.7 | 30 | 01:11 08:00 TER 14:41 20:59 | 1.5 2.5 1.5 2.3 |
| 15 | 05:47 11:41 TER 18:03 | 3.0 0.8 3.3 | 31 | 00:41 06:54 QUI 12:51 19:11 | 1.0 2.7 1.2 2.8 | 15 | 00:32 06:53 SEX 12:52 19:17 | 0.7 3.0 0.9 3.0 | 31 | 01:06 07:34 DOM 13:46 20:03 | 1.4 2.5 1.5 2.4 | 15 | 02:07 08:46 SEG 15:15 21:43 | 1.3 2.7 1.3 2.5 | | | |
| 16 | 00:14 06:32 QUA 12:26 18:49 | 0.7 3.0 0.9 3.2 | | | | 16 | 01:22 07:49 SÁB 13:53 20:20 | 1.0 2.9 1.1 2.8 | | | | 16 | 03:48 10:24 TER 17:00 23:17 | 1.4 2.7 1.2 2.6 | | | |

Porto de Setúbal (Troia)

Latitude 38° 29.67' N Longitude 8° 54.05' W

Horas do Fuso: 0 (TU)

Ano: 2025

| OUTUBRO | | | | | NOVEMBRO | | | | | DEZEMBRO | | | | | | | |
|-----------|-------|--------|-----------|--------|----------|-----------|-------|--------|-----------|----------|------|-----------|-------|--------|-----------|-------|-----|
| | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | |
| 01 | 03:13 | 1.6 | 17 | 00:00 | 2.8 | 01 | 05:08 | 1.2 | 17 | 00:46 | 3.0 | 01 | 05:20 | 1.0 | 17 | 00:51 | 2.9 |
| | 09:44 | 2.5 | | 05:58 | 1.1 | | 11:20 | 2.9 | | 06:47 | 0.9 | | 11:34 | 3.1 | | 06:58 | 1.0 |
| | 16:27 | 1.4 | SEX | 12:15 | 3.1 | SÁB | 17:42 | 0.9 | SEG | 13:03 | 3.1 | SEG | 17:50 | 0.8 | QUA | 13:12 | 2.8 |
| | 22:44 | 2.4 | | 18:34 | 0.9 | | 23:58 | 2.9 | | 19:09 | 0.9 | | | | | 19:15 | 1.0 |
| 02 | 04:50 | 1.5 | 18 | 00:44 | 2.9 | 02 | 06:01 | 1.0 | 18 | 01:22 | 3.1 | 02 | 00:08 | 3.1 | 18 | 01:31 | 3.0 |
| | 11:06 | 2.6 | | 06:42 | 0.9 | | 12:12 | 3.1 | | 07:25 | 0.9 | | 06:15 | 0.8 | | 07:40 | 1.0 |
| | 17:34 | 1.2 | SÁB | 13:58 | 3.2 | DOM | 18:29 | 0.7 | TER | 13:39 | 3.1 | TER | 12:29 | 3.2 | QUI | 13:53 | 2.9 |
| | 23:49 | 2.6 | | 19:12 | 0.7 | | | | | 19:43 | 0.8 | | 18:41 | 0.6 | | 19:53 | 0.9 |
| 03 | 05:50 | 1.2 | 19 | 01:21 | 3.1 | 03 | 00:43 | 3.2 | 19 | 01:56 | 3.1 | 03 | 00:58 | 3.3 | 19 | 02:10 | 3.1 |
| | 12:03 | 2.9 | | 07:20 | 0.8 | | 06:47 | 0.7 | | 08:01 | 0.8 | | 07:07 | 0.6 | | 08:20 | 0.9 |
| | 18:23 | 1.0 | DOM | 13:35 | 3.3 | SEG | 13:00 | 3.4 | QUA | 14:14 | 3.1 | QUA | 13:21 | 3.4 | SEX | 14:31 | 2.9 |
| | | | | 19:45 | 0.7 | | 19:13 | 0.5 | | 20:16 | 0.8 | | 19:29 | 0.5 | | 20:30 | 0.9 |
| 04 | 00:36 | 2.9 | 20 | 01:54 | 3.2 | 04 | 01:27 | 3.4 | 20 | 02:30 | 3.2 | 04 | 01:46 | 3.4 | 20 | 02:47 | 3.1 |
| | 06:38 | 1.0 | | 07:55 | 0.7 | | 07:32 | 0.5 | | 08:36 | 0.8 | | 07:56 | 0.5 | | 08:58 | 0.8 |
| | 12:50 | 3.1 | SEG | 14:10 | 3.3 | TER | 13:45 | 3.5 | QUI | 14:48 | 3.1 | QUI | 14:11 | 3.4 | SÁB | 15:09 | 2.9 |
| | 19:06 | 0.7 | | 20:16 | 0.6 | | 19:55 | 0.3 | ● | 20:49 | 0.8 | ○ | 20:17 | 0.5 | ● | 21:06 | 0.9 |
| 05 | 01:18 | 3.1 | 21 | 02:26 | 3.2 | 05 | 02:09 | 3.5 | 21 | 03:04 | 3.2 | 05 | 02:34 | 3.5 | 21 | 03:24 | 3.2 |
| | 07:20 | 0.7 | | 08:28 | 0.6 | | 08:16 | 0.3 | | 09:11 | 0.8 | | 08:46 | 0.4 | | 09:36 | 0.8 |
| | 13:32 | 3.4 | TER | 14:42 | 3.3 | QUA | 14:30 | 3.6 | SEX | 15:22 | 3.0 | SEX | 15:01 | 3.4 | DOM | 15:46 | 3.0 |
| | 19:46 | 0.5 | ● | 20:47 | 0.6 | ○ | 20:37 | 0.3 | | 21:21 | 0.8 | | 21:03 | 0.5 | | 21:42 | 0.9 |
| 06 | 01:58 | 3.4 | 22 | 02:58 | 3.3 | 06 | 02:52 | 3.6 | 22 | 03:37 | 3.2 | 06 | 03:21 | 3.6 | 22 | 04:00 | 3.2 |
| | 08:01 | 0.5 | | 09:00 | 0.6 | | 09:00 | 0.3 | | 09:45 | 0.8 | | 09:34 | 0.4 | | 10:12 | 0.8 |
| | 14:14 | 3.6 | QUA | 15:14 | 3.2 | QUI | 15:15 | 3.6 | SÁB | 15:56 | 3.0 | SÁB | 15:50 | 3.4 | SEG | 16:22 | 2.9 |
| | 20:25 | 0.3 | | 21:16 | 0.7 | | 21:19 | 0.3 | | 21:53 | 0.9 | | 21:49 | 0.5 | | 22:17 | 0.9 |
| 07 | 02:38 | 3.5 | 23 | 03:28 | 3.2 | 07 | 03:36 | 3.6 | 23 | 04:10 | 3.1 | 07 | 04:09 | 3.5 | 23 | 04:36 | 3.2 |
| | 08:41 | 0.3 | | 09:31 | 0.7 | | 09:44 | 0.3 | | 10:20 | 0.9 | | 10:23 | 0.4 | | 10:49 | 0.8 |
| | 14:55 | 3.7 | QUI | 15:44 | 3.2 | SEX | 16:00 | 3.5 | DOM | 16:30 | 2.9 | DOM | 16:38 | 3.2 | TER | 16:59 | 2.9 |
| | 21:04 | 0.2 | | 21:45 | 0.7 | | 22:01 | 0.4 | | 22:25 | 1.0 | | 22:34 | 0.6 | | 22:53 | 0.9 |
| 08 | 03:17 | 3.6 | 24 | 03:58 | 3.2 | 08 | 04:20 | 3.5 | 24 | 04:45 | 3.0 | 08 | 04:57 | 3.5 | 24 | 05:14 | 3.1 |
| | 09:20 | 0.3 | | 10:03 | 0.8 | | 10:30 | 0.4 | | 10:56 | 1.0 | | 11:12 | 0.5 | | 11:26 | 0.8 |
| | 15:36 | 3.7 | SEX | 16:15 | 3.0 | SÁB | 16:47 | 3.3 | SEG | 17:07 | 2.8 | SEG | 17:27 | 3.1 | QUA | 17:39 | 2.9 |
| | 21:42 | 0.2 | | 22:13 | 0.9 | | 22:45 | 0.6 | | 22:59 | 1.1 | | 23:21 | 0.8 | | 23:32 | 1.0 |
| 09 | 03:57 | 3.6 | 25 | 04:29 | 3.1 | 09 | 05:07 | 3.4 | 25 | 05:23 | 3.0 | 09 | 05:46 | 3.3 | 25 | 05:55 | 3.1 |
| | 10:01 | 0.3 | | 10:34 | 0.9 | | 11:19 | 0.6 | | 11:36 | 1.1 | | 12:03 | 0.7 | | 12:07 | 0.9 |
| | 16:18 | 3.6 | SÁB | 16:46 | 2.9 | DOM | 17:37 | 3.1 | TER | 17:49 | 2.7 | TER | 18:18 | 2.9 | QUI | 18:23 | 2.8 |
| | 22:21 | 0.4 | | 22:41 | 1.0 | | 23:32 | 0.9 | | 23:38 | 1.2 | | | | | | |
| 10 | 04:38 | 3.5 | 26 | 05:00 | 3.0 | 10 | 05:58 | 3.2 | 26 | 06:07 | 2.9 | 10 | 00:10 | 1.0 | 26 | 00:15 | 1.1 |
| | 10:43 | 0.4 | | 11:07 | 1.0 | | 12:15 | 0.8 | | 12:24 | 1.1 | | 06:38 | 3.1 | | 06:40 | 3.0 |
| | 17:01 | 3.4 | DOM | 17:19 | 2.7 | SEG | 18:35 | 2.8 | QUA | 18:40 | 2.6 | QUA | 12:57 | 0.9 | SEX | 12:54 | 1.0 |
| | 23:01 | 0.6 | | 23:11 | 1.1 | | | | | | | | 19:12 | 2.7 | | 19:13 | 2.8 |
| 11 | 05:21 | 3.3 | 27 | 05:36 | 2.8 | 11 | 00:27 | 1.1 | 27 | 00:30 | 1.3 | 11 | 01:04 | 1.1 | 27 | 01:07 | 1.1 |
| | 11:28 | 0.6 | | 11:45 | 1.2 | | 06:59 | 3.0 | | 07:02 | 2.8 | | 07:35 | 3.0 | | 07:33 | 2.9 |
| | 17:48 | 3.1 | SEG | 17:58 | 2.6 | TER | 13:23 | 1.0 | QUI | 13:24 | 1.2 | QUI | 13:55 | 1.1 | SÁB | 13:49 | 1.0 |
| | 23:46 | 0.8 | | 23:48 | 1.3 | | 19:43 | 2.6 | | 19:45 | 2.5 | ((| 20:12 | 2.6 |)) | 20:12 | 2.7 |
| 12 | 06:10 | 3.1 | 28 | 06:20 | 2.7 | 12 | 01:35 | 1.3 | 28 | 01:38 | 1.4 | 12 | 02:05 | 1.3 | 28 | 02:09 | 1.2 |
| | 12:22 | 0.9 | | 12:37 | 1.3 | | 08:10 | 2.9 | | 08:08 | 2.7 | | 08:36 | 2.8 | | 08:35 | 2.9 |
| | 18:45 | 2.8 | TER | 18:54 | 2.4 | QUA | 14:40 | 1.1 | SEX | 14:35 | 1.2 | SEX | 14:58 | 1.2 | DOM | 14:53 | 1.1 |
| | | | | | | ((| 21:01 | 2.5 |)) | 20:59 | 2.6 | | 21:17 | 2.6 | | 21:20 | 2.7 |
| 13 | 00:39 | 1.1 | 29 | 00:42 | 1.5 | 13 | 02:54 | 1.4 | 29 | 02:58 | 1.3 | 13 | 03:12 | 1.3 | 29 | 03:23 | 1.2 |
| | 07:12 | 2.9 | | 07:25 | 2.6 | | 09:28 | 2.8 | | 09:22 | 2.8 | | 09:42 | 2.7 | | 09:46 | 2.9 |
| | 13:34 | 1.1 | QUA | 13:58 | 1.4 | QUI | 15:59 | 1.2 | SÁB | 15:49 | 1.1 | SÁB | 16:03 | 1.2 | SEG | 16:06 | 1.0 |
| | 19:59 | 2.6 |)) | 20:19 | 2.3 | | 22:19 | 2.6 | | 22:12 | 2.7 | | 22:23 | 2.6 | | 22:31 | 2.8 |
| 14 | 01:54 | 1.3 | 30 | 02:18 | 1.5 | 14 | 04:13 | 1.3 | 30 | 04:15 | 1.2 | 14 | 04:21 | 1.3 | 30 | 04:41 | 1.1 |
| | 08:34 | 2.7 | | 08:53 | 2.6 | | 10:40 | 2.8 | | 10:32 | 2.9 | | 10:46 | 2.7 | | 10:59 | 2.9 |
| | 15:10 | 1.2 | QUI | 15:33 | 1.4 | SEX | 17:05 | 1.1 | DOM | 16:54 | 1.0 | DOM | 17:02 | 1.2 | TER | 17:15 | 1.0 |
| | 21:34 | 2.5 | | 21:54 | 2.4 | | 23:20 | 2.7 | | 23:14 | 2.9 | | 23:20 | 2.7 | | 23:37 | 3.0 |
| 15 | 03:33 | 1.4 | 31 | 03:58 | 1.5 | 15 | 05:17 | 1.2 | 15 | 05:22 | 1.2 | 15 | 05:22 | 1.2 | 31 | 05:49 | 0.9 |
| | 10:07 | 2.8 | | 10:16 | 2.7 | | 11:37 | 2.9 | | 11:42 | 2.7 | | 11:42 | 2.7 | | 12:06 | 3.0 |
| | 16:44 | 1.2 | SEX | 16:47 | 1.2 | SÁB | 17:54 | 1.0 | SEG | 17:51 | 1.1 | QUA | 18:16 | 0.8 | | | |
| | 23:01 | 2.6 | | 23:05 | 2.6 | | | | | | | | | | | | |
| 16 | 04:59 | 1.3 | | | | 16 | 00:07 | 2.8 | 16 | 00:09 | 2.8 | 16 | 00:09 | 2.8 | | | |
| | 11:21 | 2.9 | | | | | 06:06 | 1.1 | | 06:13 | 1.1 | | 06:13 | 1.1 | | | |
| | 17:48 | 1.0 | | | | DOM | 12:23 | 3.0 | TER | 12:30 | 2.8 | | 12:30 | 2.8 | | | |
| | | | | | | | 18:34 | 0.9 | | 18:35 | 1.1 | | 18:35 | 1.1 | | | |

Barra de Setúbal (Troia)

Latitude 38° 29.67' N Longitude 8° 54.05' W

Horas do Fuso: 0 (TU)

JANEIRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 01 QUA | 1.88 | 2.46 | 2.96 | 3.30 | 3.34 | 3.01 | 2.43 | 1.78 | 1.21 | 0.79 | 0.67 | 0.92 | 1.43 | 2.01 | 2.54 | 2.97 | 3.15 | 2.97 | 2.49 | 1.90 | 1.35 | 0.93 | 0.76 | 0.97 |
| 02 QUI | 1.47 | 2.09 | 2.66 | 3.14 | 3.40 | 3.31 | 2.87 | 2.23 | 1.57 | 1.02 | 0.67 | 0.67 | 1.04 | 1.60 | 2.18 | 2.70 | 3.07 | 3.15 | 2.85 | 2.31 | 1.72 | 1.19 | 0.84 | 0.79 |
| 03 SEX | 1.11 | 1.67 | 2.28 | 2.83 | 3.25 | 3.42 | 3.21 | 2.69 | 2.03 | 1.39 | 0.88 | 0.64 | 0.76 | 1.20 | 1.77 | 2.33 | 2.81 | 3.10 | 3.07 | 2.70 | 2.14 | 1.57 | 1.09 | 0.82 |
| 04 SÁB | 0.89 | 1.28 | 1.85 | 2.42 | 2.93 | 3.29 | 3.35 | 3.06 | 2.51 | 1.86 | 1.26 | 0.83 | 0.69 | 0.90 | 1.36 | 1.91 | 2.43 | 2.85 | 3.06 | 2.95 | 2.55 | 2.01 | 1.47 | 1.06 |
| 05 DOM | 0.88 | 1.03 | 1.44 | 1.98 | 2.51 | 2.96 | 3.25 | 3.23 | 2.90 | 2.36 | 1.75 | 1.21 | 0.86 | 0.81 | 1.06 | 1.50 | 2.00 | 2.47 | 2.84 | 2.98 | 2.82 | 2.43 | 1.93 | 1.45 |
| 06 SEG | 1.10 | 0.99 | 1.16 | 1.55 | 2.03 | 2.51 | 2.92 | 3.14 | 3.09 | 2.76 | 2.26 | 1.71 | 1.23 | 0.95 | 0.94 | 1.18 | 1.58 | 2.03 | 2.46 | 2.78 | 2.89 | 2.74 | 2.38 | 1.93 |
| 07 TER | 1.49 | 1.18 | 1.10 | 1.25 | 1.59 | 2.01 | 2.45 | 2.82 | 3.02 | 2.97 | 2.68 | 2.23 | 1.74 | 1.31 | 1.07 | 1.05 | 1.25 | 1.60 | 2.01 | 2.42 | 2.72 | 2.83 | 2.71 | 2.41 |
| 08 QUA | 1.99 | 1.58 | 1.28 | 1.17 | 1.27 | 1.54 | 1.92 | 2.34 | 2.70 | 2.90 | 2.89 | 2.67 | 2.27 | 1.81 | 1.41 | 1.16 | 1.11 | 1.26 | 1.57 | 1.97 | 2.37 | 2.69 | 2.83 | 2.76 |
| 09 QUI | 2.49 | 2.09 | 1.67 | 1.35 | 1.18 | 1.21 | 1.43 | 1.79 | 2.21 | 2.59 | 2.83 | 2.88 | 2.71 | 2.34 | 1.89 | 1.49 | 1.21 | 1.11 | 1.22 | 1.52 | 1.93 | 2.35 | 2.70 | 2.90 |
| 10 SEX | 2.87 | 2.61 | 2.19 | 1.74 | 1.36 | 1.12 | 1.10 | 1.30 | 1.66 | 2.10 | 2.52 | 2.83 | 2.93 | 2.78 | 2.41 | 1.95 | 1.51 | 1.18 | 1.04 | 1.15 | 1.47 | 1.91 | 2.38 | 2.79 |
| 11 SÁB | 3.03 | 3.01 | 2.72 | 2.26 | 1.76 | 1.31 | 1.01 | 0.96 | 1.16 | 1.56 | 2.04 | 2.52 | 2.88 | 3.01 | 2.85 | 2.46 | 1.96 | 1.47 | 1.10 | 0.95 | 1.08 | 1.45 | 1.95 | 2.47 |
| 12 DOM | 2.92 | 3.18 | 3.14 | 2.80 | 2.28 | 1.71 | 1.20 | 0.87 | 0.82 | 1.07 | 1.52 | 2.06 | 2.58 | 2.97 | 3.09 | 2.89 | 2.44 | 1.89 | 1.37 | 0.99 | 0.86 | 1.05 | 1.49 | 2.05 |
| 13 SEG | 2.62 | 3.09 | 3.33 | 3.23 | 2.81 | 2.22 | 1.60 | 1.06 | 0.73 | 0.73 | 1.05 | 1.57 | 2.15 | 2.69 | 3.07 | 3.14 | 2.86 | 2.34 | 1.76 | 1.23 | 0.86 | 0.80 | 1.08 | 1.60 |
| 14 TER | 2.21 | 2.79 | 3.25 | 3.43 | 3.23 | 2.73 | 2.09 | 1.44 | 0.90 | 0.62 | 0.72 | 1.13 | 1.70 | 2.30 | 2.83 | 3.16 | 3.13 | 2.74 | 2.17 | 1.58 | 1.06 | 0.75 | 0.81 | 1.21 |
| 15 QUA | 1.79 | 2.40 | 2.97 | 3.38 | 3.46 | 3.14 | 2.56 | 1.90 | 1.26 | 0.76 | 0.59 | 0.82 | 1.31 | 1.89 | 2.48 | 2.97 | 3.19 | 3.02 | 2.55 | 1.96 | 1.38 | 0.91 | 0.72 | 0.92 |
| 16 QUI | 1.41 | 2.01 | 2.61 | 3.13 | 3.44 | 3.37 | 2.94 | 2.33 | 1.68 | 1.08 | 0.68 | 0.67 | 1.02 | 1.55 | 2.11 | 2.66 | 3.05 | 3.12 | 2.82 | 2.30 | 1.73 | 1.20 | 0.83 | 0.79 |
| 17 SEX | 1.12 | 1.67 | 2.24 | 2.79 | 3.23 | 3.39 | 3.18 | 2.68 | 2.07 | 1.46 | 0.95 | 0.71 | 0.85 | 1.28 | 1.80 | 2.33 | 2.79 | 3.05 | 2.97 | 2.58 | 2.05 | 1.52 | 1.07 | 0.84 |
| 18 SÁB | 0.96 | 1.38 | 1.92 | 2.45 | 2.92 | 3.23 | 3.23 | 2.91 | 2.39 | 1.82 | 1.29 | 0.92 | 0.85 | 1.11 | 1.56 | 2.04 | 2.50 | 2.85 | 2.95 | 2.75 | 2.32 | 1.83 | 1.38 | 1.05 |
| 19 DOM | 0.96 | 1.20 | 1.64 | 2.13 | 2.58 | 2.95 | 3.12 | 3.00 | 2.62 | 2.13 | 1.63 | 1.22 | 1.00 | 1.06 | 1.38 | 1.80 | 2.22 | 2.59 | 2.81 | 2.80 | 2.53 | 2.11 | 1.68 | 1.32 |
| 20 SEG | 1.12 | 1.15 | 1.43 | 1.85 | 2.26 | 2.63 | 2.88 | 2.93 | 2.74 | 2.37 | 1.93 | 1.53 | 1.24 | 1.15 | 1.29 | 1.60 | 1.97 | 2.32 | 2.59 | 2.71 | 2.63 | 2.35 | 1.98 | 1.63 |
| 21 TER | 1.37 | 1.26 | 1.35 | 1.62 | 1.97 | 2.31 | 2.58 | 2.74 | 2.72 | 2.52 | 2.19 | 1.83 | 1.53 | 1.34 | 1.32 | 1.47 | 1.75 | 2.06 | 2.33 | 2.53 | 2.60 | 2.50 | 2.25 | 1.94 |
| 22 QUA | 1.66 | 1.47 | 1.40 | 1.49 | 1.71 | 2.00 | 2.27 | 2.48 | 2.59 | 2.56 | 2.38 | 2.10 | 1.82 | 1.59 | 1.45 | 1.44 | 1.57 | 1.80 | 2.07 | 2.30 | 2.47 | 2.53 | 2.45 | 2.24 |
| 23 QUI | 1.98 | 1.74 | 1.57 | 1.50 | 1.55 | 1.71 | 1.95 | 2.18 | 2.37 | 2.47 | 2.47 | 2.33 | 2.11 | 1.86 | 1.66 | 1.53 | 1.49 | 1.58 | 1.78 | 2.03 | 2.26 | 2.44 | 2.53 | 2.49 |
| 24 SEX | 2.31 | 2.07 | 1.83 | 1.63 | 1.51 | 1.50 | 1.64 | 1.85 | 2.08 | 2.29 | 2.44 | 2.48 | 2.38 | 2.17 | 1.92 | 1.70 | 1.52 | 1.44 | 1.52 | 1.72 | 1.99 | 2.25 | 2.48 | 2.62 |
| 25 SÁB | 2.60 | 2.42 | 2.15 | 1.87 | 1.61 | 1.42 | 1.39 | 1.52 | 1.75 | 2.03 | 2.29 | 2.49 | 2.57 | 2.47 | 2.24 | 1.95 | 1.67 | 1.44 | 1.33 | 1.42 | 1.66 | 1.98 | 2.32 | 2.61 |
| 26 DOM | 2.77 | 2.75 | 2.53 | 2.19 | 1.83 | 1.49 | 1.26 | 1.22 | 1.39 | 1.69 | 2.04 | 2.38 | 2.63 | 2.72 | 2.58 | 2.28 | 1.91 | 1.56 | 1.28 | 1.18 | 1.31 | 1.64 | 2.05 | 2.46 |
| 27 SEG | 2.80 | 2.97 | 2.90 | 2.59 | 2.15 | 1.70 | 1.30 | 1.05 | 1.05 | 1.29 | 1.69 | 2.13 | 2.54 | 2.82 | 2.88 | 2.66 | 2.26 | 1.80 | 1.38 | 1.08 | 1.02 | 1.24 | 1.68 | 2.19 |
| 28 TER | 2.66 | 3.03 | 3.18 | 3.01 | 2.58 | 2.03 | 1.50 | 1.06 | 0.82 | 0.90 | 1.27 | 1.78 | 2.30 | 2.75 | 3.03 | 3.02 | 2.68 | 2.16 | 1.62 | 1.16 | 0.87 | 0.89 | 1.25 | 1.81 |
| 29 QUA | 2.39 | 2.91 | 3.27 | 3.35 | 3.05 | 2.48 | 1.84 | 1.25 | 0.80 | 0.63 | 0.84 | 1.34 | 1.94 | 2.52 | 2.99 | 3.22 | 3.08 | 2.60 | 1.98 | 1.40 | 0.92 | 0.69 | 0.84 | 1.35 |
| 30 QUI | 2.00 | 2.62 | 3.16 | 3.48 | 3.44 | 2.99 | 2.31 | 1.61 | 0.99 | 0.56 | 0.51 | 0.89 | 1.50 | 2.15 | 2.75 | 3.20 | 3.33 | 3.03 | 2.44 | 1.77 | 1.16 | 0.71 | 0.59 | 0.90 |
| 31 SEX | 1.53 | 2.22 | 2.86 | 3.38 | 3.62 | 3.41 | 2.83 | 2.08 | 1.36 | 0.75 | 0.42 | 0.53 | 1.04 | 1.71 | 2.37 | 2.96 | 3.34 | 3.33 | 2.89 | 2.23 | 1.54 | 0.95 | 0.57 | 0.60 |

Barra de Setúbal (Troia)

Latitude 38° 29.67' N Longitude 8° 54.05' W

Horas do Fuso: 0 (TU)

FEVEREIRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 SAB | 1.07 | 1.75 | 2.44 | 3.06 | 3.52 | 3.63 | 3.28 | 2.61 | 1.85 | 1.13 | 0.59 | 0.40 | 0.67 | 1.26 | 1.93 | 2.57 | 3.11 | 3.37 | 3.21 | 2.69 | 2.01 | 1.34 | 0.80 | 0.55 |
| 02 DOM | 0.74 | 1.28 | 1.96 | 2.62 | 3.19 | 3.55 | 3.51 | 3.06 | 2.37 | 1.64 | 0.98 | 0.55 | 0.52 | 0.90 | 1.50 | 2.13 | 2.72 | 3.16 | 3.29 | 3.02 | 2.47 | 1.82 | 1.21 | 0.77 |
| 03 SEG | 0.66 | 0.95 | 1.50 | 2.12 | 2.72 | 3.21 | 3.45 | 3.30 | 2.82 | 2.16 | 1.49 | 0.94 | 0.65 | 0.75 | 1.16 | 1.70 | 2.26 | 2.77 | 3.11 | 3.12 | 2.81 | 2.29 | 1.70 | 1.18 |
| 04 TER | 0.85 | 0.85 | 1.16 | 1.66 | 2.20 | 2.71 | 3.11 | 3.24 | 3.05 | 2.60 | 2.02 | 1.45 | 1.02 | 0.85 | 1.00 | 1.37 | 1.83 | 2.31 | 2.73 | 2.97 | 2.94 | 2.64 | 2.19 | 1.69 |
| 05 QUA | 1.26 | 1.02 | 1.05 | 1.32 | 1.72 | 2.17 | 2.60 | 2.91 | 3.00 | 2.83 | 2.46 | 1.99 | 1.53 | 1.19 | 1.08 | 1.21 | 1.50 | 1.88 | 2.27 | 2.62 | 2.81 | 2.79 | 2.57 | 2.20 |
| 06 QUI | 1.78 | 1.42 | 1.22 | 1.21 | 1.39 | 1.69 | 2.05 | 2.41 | 2.69 | 2.79 | 2.69 | 2.42 | 2.05 | 1.67 | 1.39 | 1.27 | 1.33 | 1.53 | 1.83 | 2.17 | 2.49 | 2.70 | 2.74 | 2.60 |
| 07 SEX | 2.31 | 1.94 | 1.60 | 1.36 | 1.28 | 1.35 | 1.56 | 1.87 | 2.21 | 2.49 | 2.66 | 2.65 | 2.48 | 2.17 | 1.83 | 1.54 | 1.36 | 1.34 | 1.47 | 1.72 | 2.06 | 2.40 | 2.67 | 2.79 |
| 08 SAB | 2.72 | 2.47 | 2.11 | 1.74 | 1.42 | 1.24 | 1.23 | 1.39 | 1.68 | 2.05 | 2.40 | 2.64 | 2.72 | 2.59 | 2.30 | 1.94 | 1.59 | 1.34 | 1.25 | 1.34 | 1.61 | 1.99 | 2.39 | 2.73 |
| 09 DOM | 2.93 | 2.89 | 2.64 | 2.23 | 1.78 | 1.38 | 1.11 | 1.05 | 1.22 | 1.55 | 1.98 | 2.41 | 2.73 | 2.85 | 2.72 | 2.38 | 1.96 | 1.54 | 1.22 | 1.10 | 1.22 | 1.54 | 2.00 | 2.48 |
| 10 SEG | 2.89 | 3.11 | 3.06 | 2.74 | 2.25 | 1.72 | 1.24 | 0.93 | 0.88 | 1.11 | 1.53 | 2.04 | 2.53 | 2.89 | 2.99 | 2.79 | 2.37 | 1.86 | 1.38 | 1.04 | 0.94 | 1.14 | 1.57 | 2.11 |
| 11 TER | 2.65 | 3.10 | 3.30 | 3.16 | 2.73 | 2.16 | 1.56 | 1.04 | 0.74 | 0.78 | 1.12 | 1.63 | 2.20 | 2.73 | 3.07 | 3.08 | 2.76 | 2.24 | 1.68 | 1.17 | 0.85 | 0.85 | 1.18 | 1.71 |
| 12 QUA | 2.31 | 2.88 | 3.30 | 3.41 | 3.14 | 2.61 | 1.96 | 1.33 | 0.82 | 0.62 | 0.80 | 1.26 | 1.84 | 2.44 | 2.95 | 3.20 | 3.07 | 2.61 | 2.03 | 1.44 | 0.94 | 0.71 | 0.86 | 1.33 |
| 13 QUI | 1.93 | 2.55 | 3.11 | 3.45 | 3.41 | 2.99 | 2.37 | 1.70 | 1.07 | 0.65 | 0.61 | 0.95 | 1.51 | 2.11 | 2.70 | 3.14 | 3.23 | 2.92 | 2.37 | 1.75 | 1.17 | 0.75 | 0.68 | 1.01 |
| 14 SEX | 1.58 | 2.21 | 2.81 | 3.30 | 3.49 | 3.26 | 2.72 | 2.07 | 1.41 | 0.85 | 0.58 | 0.75 | 1.23 | 1.82 | 2.41 | 2.93 | 3.23 | 3.13 | 2.67 | 2.07 | 1.47 | 0.95 | 0.67 | 0.80 |
| 15 SAB | 1.27 | 1.88 | 2.48 | 3.02 | 3.38 | 3.38 | 2.99 | 2.39 | 1.75 | 1.15 | 0.73 | 0.67 | 1.02 | 1.56 | 2.13 | 2.67 | 3.08 | 3.18 | 2.90 | 2.37 | 1.77 | 1.23 | 0.82 | 0.74 |
| 16 DOM | 1.04 | 1.59 | 2.17 | 2.71 | 3.14 | 3.33 | 3.14 | 2.65 | 2.05 | 1.47 | 0.98 | 0.75 | 0.90 | 1.35 | 1.89 | 2.40 | 2.85 | 3.10 | 3.01 | 2.61 | 2.06 | 1.52 | 1.07 | 0.84 |
| 17 SEG | 0.94 | 1.35 | 1.89 | 2.40 | 2.85 | 3.14 | 3.13 | 2.82 | 2.30 | 1.76 | 1.27 | 0.95 | 0.92 | 1.21 | 1.68 | 2.16 | 2.59 | 2.91 | 2.98 | 2.76 | 2.32 | 1.82 | 1.36 | 1.05 |
| 18 TER | 0.98 | 1.21 | 1.64 | 2.12 | 2.54 | 2.86 | 3.00 | 2.86 | 2.49 | 2.01 | 1.56 | 1.21 | 1.06 | 1.18 | 1.51 | 1.94 | 2.34 | 2.67 | 2.84 | 2.79 | 2.51 | 2.10 | 1.67 | 1.33 |
| 19 QUA | 1.16 | 1.21 | 1.47 | 1.85 | 2.24 | 2.56 | 2.76 | 2.78 | 2.58 | 2.23 | 1.83 | 1.49 | 1.28 | 1.26 | 1.43 | 1.74 | 2.09 | 2.41 | 2.63 | 2.71 | 2.60 | 2.33 | 1.98 | 1.64 |
| 20 QUI | 1.41 | 1.33 | 1.42 | 1.65 | 1.96 | 2.25 | 2.48 | 2.59 | 2.55 | 2.37 | 2.08 | 1.77 | 1.54 | 1.43 | 1.45 | 1.60 | 1.85 | 2.13 | 2.37 | 2.53 | 2.56 | 2.47 | 2.25 | 1.97 |
| 21 SEX | 1.72 | 1.55 | 1.50 | 1.56 | 1.72 | 1.94 | 2.17 | 2.34 | 2.42 | 2.40 | 2.27 | 2.06 | 1.83 | 1.66 | 1.58 | 1.58 | 1.67 | 1.85 | 2.07 | 2.28 | 2.42 | 2.48 | 2.44 | 2.29 |
| 22 SAB | 2.07 | 1.85 | 1.68 | 1.59 | 1.57 | 1.66 | 1.83 | 2.02 | 2.19 | 2.31 | 2.36 | 2.30 | 2.15 | 1.96 | 1.78 | 1.66 | 1.59 | 1.61 | 1.75 | 1.96 | 2.18 | 2.37 | 2.50 | 2.53 |
| 23 DOM | 2.43 | 2.21 | 1.97 | 1.74 | 1.56 | 1.46 | 1.50 | 1.66 | 1.88 | 2.12 | 2.32 | 2.45 | 2.45 | 2.31 | 2.09 | 1.85 | 1.63 | 1.48 | 1.46 | 1.60 | 1.85 | 2.15 | 2.43 | 2.64 |
| 24 SEG | 2.72 | 2.61 | 2.35 | 2.02 | 1.69 | 1.41 | 1.26 | 1.29 | 1.50 | 1.81 | 2.14 | 2.44 | 2.64 | 2.66 | 2.47 | 2.16 | 1.81 | 1.50 | 1.28 | 1.25 | 1.45 | 1.80 | 2.21 | 2.59 |
| 25 TER | 2.87 | 2.96 | 2.80 | 2.43 | 1.97 | 1.53 | 1.17 | 0.99 | 1.07 | 1.39 | 1.83 | 2.28 | 2.67 | 2.90 | 2.87 | 2.58 | 2.13 | 1.67 | 1.27 | 1.02 | 1.04 | 1.36 | 1.85 | 2.37 |
| 26 QUA | 2.83 | 3.15 | 3.20 | 2.92 | 2.40 | 1.82 | 1.28 | 0.87 | 0.72 | 0.92 | 1.39 | 1.96 | 2.50 | 2.95 | 3.16 | 3.03 | 2.58 | 2.00 | 1.44 | 0.99 | 0.76 | 0.90 | 1.37 | 2.00 |
| 27 QUI | 2.60 | 3.12 | 3.43 | 3.38 | 2.94 | 2.27 | 1.59 | 0.98 | 0.57 | 0.52 | 0.89 | 1.51 | 2.17 | 2.78 | 3.23 | 3.37 | 3.07 | 2.46 | 1.78 | 1.16 | 0.70 | 0.55 | 0.86 | 1.50 |
| 28 SEX | 2.21 | 2.87 | 3.41 | 3.65 | 3.44 | 2.83 | 2.06 | 1.31 | 0.68 | 0.33 | 0.45 | 1.00 | 1.72 | 2.43 | 3.06 | 3.47 | 3.45 | 2.98 | 2.26 | 1.52 | 0.88 | 0.46 | 0.47 | 0.96 |

Barra de Setúbal (Troia)

Latitude 38° 29.67' N Longitude 8° 54.05' W

Horas do Fuso: 0 (TU)

MARÇO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 SÁB | 1.70 | 2.45 | 3.13 | 3.64 | 3.75 | 3.37 | 2.63 | 1.81 | 1.04 | 0.44 | 0.23 | 0.55 | 1.22 | 1.97 | 2.69 | 3.29 | 3.58 | 3.39 | 2.78 | 2.01 | 1.26 | 0.64 | 0.34 | 0.54 |
| 02 DOM | 1.16 | 1.94 | 2.68 | 3.33 | 3.75 | 3.69 | 3.16 | 2.38 | 1.56 | 0.82 | 0.33 | 0.32 | 0.78 | 1.49 | 2.22 | 2.90 | 3.42 | 3.55 | 3.20 | 2.52 | 1.76 | 1.05 | 0.51 | 0.38 |
| 03 SEG | 0.74 | 1.41 | 2.14 | 2.84 | 3.42 | 3.69 | 3.48 | 2.88 | 2.12 | 1.35 | 0.71 | 0.40 | 0.55 | 1.09 | 1.76 | 2.43 | 3.03 | 3.41 | 3.38 | 2.94 | 2.28 | 1.57 | 0.93 | 0.55 |
| 04 TER | 0.57 | 1.00 | 1.63 | 2.28 | 2.90 | 3.36 | 3.48 | 3.18 | 2.60 | 1.91 | 1.25 | 0.76 | 0.62 | 0.88 | 1.39 | 1.98 | 2.55 | 3.03 | 3.27 | 3.13 | 2.69 | 2.09 | 1.48 | 0.97 |
| 05 QUA | 0.72 | 0.84 | 1.25 | 1.78 | 2.32 | 2.83 | 3.16 | 3.17 | 2.87 | 2.37 | 1.80 | 1.28 | 0.95 | 0.92 | 1.19 | 1.62 | 2.09 | 2.55 | 2.91 | 3.04 | 2.89 | 2.51 | 2.02 | 1.52 |
| 06 QUI | 1.14 | 0.98 | 1.10 | 1.42 | 1.82 | 2.25 | 2.63 | 2.87 | 2.86 | 2.63 | 2.24 | 1.81 | 1.43 | 1.21 | 1.21 | 1.42 | 1.73 | 2.09 | 2.45 | 2.72 | 2.82 | 2.72 | 2.44 | 2.07 |
| 07 SEX | 1.68 | 1.38 | 1.23 | 1.28 | 1.47 | 1.75 | 2.07 | 2.38 | 2.59 | 2.63 | 2.50 | 2.25 | 1.93 | 1.64 | 1.46 | 1.41 | 1.52 | 1.72 | 1.98 | 2.28 | 2.54 | 2.68 | 2.67 | 2.50 |
| 08 SÁB | 2.23 | 1.90 | 1.60 | 1.40 | 1.34 | 1.41 | 1.59 | 1.85 | 2.15 | 2.39 | 2.52 | 2.51 | 2.36 | 2.11 | 1.84 | 1.61 | 1.48 | 1.48 | 1.60 | 1.83 | 2.13 | 2.43 | 2.65 | 2.74 |
| 09 DOM | 2.66 | 2.42 | 2.09 | 1.73 | 1.44 | 1.27 | 1.25 | 1.39 | 1.66 | 2.01 | 2.33 | 2.56 | 2.63 | 2.52 | 2.26 | 1.94 | 1.62 | 1.40 | 1.33 | 1.43 | 1.69 | 2.05 | 2.44 | 2.75 |
| 10 SEG | 2.91 | 2.85 | 2.59 | 2.18 | 1.74 | 1.35 | 1.11 | 1.07 | 1.24 | 1.58 | 2.01 | 2.42 | 2.72 | 2.81 | 2.66 | 2.32 | 1.91 | 1.51 | 1.23 | 1.15 | 1.29 | 1.64 | 2.09 | 2.56 |
| 11 TER | 2.94 | 3.11 | 3.00 | 2.64 | 2.14 | 1.62 | 1.16 | 0.91 | 0.92 | 1.19 | 1.63 | 2.15 | 2.62 | 2.93 | 2.96 | 2.70 | 2.25 | 1.75 | 1.30 | 1.01 | 0.99 | 1.25 | 1.71 | 2.25 |
| 12 QUA | 2.77 | 3.16 | 3.27 | 3.04 | 2.57 | 1.98 | 1.39 | 0.93 | 0.74 | 0.88 | 1.28 | 1.82 | 2.39 | 2.88 | 3.12 | 3.01 | 2.61 | 2.07 | 1.51 | 1.04 | 0.81 | 0.93 | 1.33 | 1.89 |
| 13 QUI | 2.48 | 3.02 | 3.35 | 3.32 | 2.94 | 2.36 | 1.72 | 1.12 | 0.72 | 0.67 | 0.98 | 1.51 | 2.10 | 2.69 | 3.12 | 3.22 | 2.93 | 2.40 | 1.80 | 1.22 | 0.80 | 0.71 | 1.01 | 1.54 |
| 14 SEX | 2.15 | 2.76 | 3.24 | 3.44 | 3.23 | 2.71 | 2.06 | 1.41 | 0.86 | 0.60 | 0.76 | 1.23 | 1.82 | 2.43 | 2.97 | 3.27 | 3.17 | 2.72 | 2.11 | 1.49 | 0.95 | 0.65 | 0.76 | 1.22 |
| 15 SÁB | 1.83 | 2.45 | 3.01 | 3.39 | 3.39 | 2.99 | 2.38 | 1.73 | 1.12 | 0.68 | 0.63 | 0.99 | 1.56 | 2.16 | 2.74 | 3.18 | 3.29 | 2.98 | 2.42 | 1.79 | 1.20 | 0.75 | 0.65 | 0.96 |
| 16 DOM | 1.53 | 2.14 | 2.72 | 3.19 | 3.39 | 3.18 | 2.66 | 2.03 | 1.41 | 0.89 | 0.65 | 0.83 | 1.33 | 1.92 | 2.49 | 2.98 | 3.26 | 3.15 | 2.69 | 2.08 | 1.49 | 0.97 | 0.69 | 0.80 |
| 17 SEG | 1.26 | 1.85 | 2.42 | 2.92 | 3.25 | 3.24 | 2.87 | 2.29 | 1.69 | 1.16 | 0.80 | 0.78 | 1.14 | 1.69 | 2.25 | 2.74 | 3.10 | 3.18 | 2.90 | 2.36 | 1.78 | 1.25 | 0.87 | 0.79 |
| 18 TER | 1.07 | 1.59 | 2.14 | 2.62 | 3.01 | 3.16 | 2.97 | 2.51 | 1.95 | 1.43 | 1.03 | 0.87 | 1.05 | 1.49 | 2.02 | 2.50 | 2.88 | 3.09 | 2.98 | 2.59 | 2.07 | 1.55 | 1.13 | 0.92 |
| 19 QUA | 1.01 | 1.38 | 1.87 | 2.34 | 2.72 | 2.96 | 2.94 | 2.65 | 2.18 | 1.69 | 1.28 | 1.05 | 1.07 | 1.36 | 1.80 | 2.25 | 2.64 | 2.90 | 2.94 | 2.73 | 2.32 | 1.85 | 1.43 | 1.15 |
| 20 QUI | 1.09 | 1.28 | 1.64 | 2.06 | 2.43 | 2.70 | 2.80 | 2.67 | 2.36 | 1.95 | 1.56 | 1.28 | 1.20 | 1.33 | 1.63 | 2.01 | 2.37 | 2.65 | 2.80 | 2.75 | 2.50 | 2.14 | 1.75 | 1.44 |
| 21 SEX | 1.28 | 1.31 | 1.50 | 1.80 | 2.12 | 2.40 | 2.57 | 2.59 | 2.44 | 2.17 | 1.84 | 1.56 | 1.40 | 1.40 | 1.55 | 1.80 | 2.09 | 2.37 | 2.57 | 2.64 | 2.57 | 2.37 | 2.08 | 1.77 |
| 22 SÁB | 1.54 | 1.45 | 1.48 | 1.62 | 1.83 | 2.07 | 2.28 | 2.40 | 2.41 | 2.31 | 2.11 | 1.88 | 1.67 | 1.57 | 1.57 | 1.66 | 1.83 | 2.05 | 2.27 | 2.44 | 2.52 | 2.49 | 2.36 | 2.14 |
| 23 DOM | 1.89 | 1.69 | 1.57 | 1.54 | 1.59 | 1.74 | 1.93 | 2.12 | 2.27 | 2.34 | 2.32 | 2.20 | 2.02 | 1.83 | 1.70 | 1.63 | 1.64 | 1.73 | 1.92 | 2.14 | 2.34 | 2.49 | 2.54 | 2.48 |
| 24 SEG | 2.30 | 2.04 | 1.79 | 1.60 | 1.47 | 1.44 | 1.55 | 1.76 | 2.01 | 2.23 | 2.40 | 2.46 | 2.40 | 2.20 | 1.96 | 1.74 | 1.57 | 1.48 | 1.54 | 1.75 | 2.04 | 2.33 | 2.57 | 2.71 |
| 25 TER | 2.69 | 2.49 | 2.16 | 1.80 | 1.49 | 1.27 | 1.20 | 1.33 | 1.62 | 1.98 | 2.32 | 2.58 | 2.71 | 2.63 | 2.36 | 2.00 | 1.65 | 1.38 | 1.23 | 1.31 | 1.61 | 2.02 | 2.43 | 2.77 |
| 26 QUA | 2.97 | 2.94 | 2.64 | 2.18 | 1.70 | 1.28 | 0.99 | 0.92 | 1.15 | 1.57 | 2.06 | 2.52 | 2.86 | 3.00 | 2.83 | 2.41 | 1.92 | 1.46 | 1.10 | 0.95 | 1.12 | 1.56 | 2.10 | 2.63 |
| 27 QUI | 3.05 | 3.27 | 3.15 | 2.71 | 2.10 | 1.50 | 0.99 | 0.67 | 0.69 | 1.06 | 1.64 | 2.25 | 2.79 | 3.17 | 3.24 | 2.93 | 2.35 | 1.73 | 1.18 | 0.78 | 0.70 | 1.01 | 1.61 | 2.28 |
| 28 SEX | 2.89 | 3.35 | 3.52 | 3.27 | 2.66 | 1.93 | 1.24 | 0.69 | 0.41 | 0.57 | 1.12 | 1.82 | 2.51 | 3.10 | 3.45 | 3.39 | 2.90 | 2.19 | 1.48 | 0.87 | 0.50 | 0.54 | 1.04 | 1.77 |
| 29 SÁB | 2.51 | 3.16 | 3.61 | 3.68 | 3.26 | 2.51 | 1.70 | 0.97 | 0.42 | 0.26 | 0.60 | 1.29 | 2.07 | 2.78 | 3.37 | 3.63 | 3.39 | 2.75 | 1.96 | 1.21 | 0.59 | 0.31 | 0.53 | 1.18 |
| 30 DOM | 1.97 | 2.73 | 3.38 | 3.78 | 3.69 | 3.11 | 2.29 | 1.46 | 0.73 | 0.26 | 0.27 | 0.79 | 1.55 | 2.33 | 3.04 | 3.56 | 3.66 | 3.26 | 2.52 | 1.71 | 0.96 | 0.40 | 0.27 | 0.66 |
| 31 SEG | 1.38 | 2.17 | 2.91 | 3.52 | 3.78 | 3.53 | 2.87 | 2.05 | 1.25 | 0.58 | 0.26 | 0.47 | 1.08 | 1.83 | 2.56 | 3.21 | 3.61 | 3.54 | 3.02 | 2.27 | 1.49 | 0.79 | 0.36 | 0.39 |

Barra de Setúbal (Troia)

Latitude 38° 29.67' N Longitude 8° 54.05' W

Horas do Fuso: 0 (TU)

ABRIL 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 TER | 0.89 | 1.60 | 2.33 | 3.01 | 3.52 | 3.63 | 3.26 | 2.59 | 1.83 | 1.11 | 0.57 | 0.44 | 0.78 | 1.39 | 2.07 | 2.73 | 3.27 | 3.52 | 3.31 | 2.76 | 2.06 | 1.35 | 0.75 | 0.47 |
| 02 QUA | 0.64 | 1.14 | 1.77 | 2.40 | 2.99 | 3.36 | 3.34 | 2.95 | 2.34 | 1.68 | 1.08 | 0.72 | 0.74 | 1.12 | 1.66 | 2.23 | 2.78 | 3.20 | 3.30 | 3.05 | 2.54 | 1.93 | 1.32 | 0.87 |
| 03 QUI | 0.72 | 0.92 | 1.35 | 1.86 | 2.38 | 2.84 | 3.09 | 3.01 | 2.66 | 2.16 | 1.64 | 1.19 | 0.98 | 1.07 | 1.40 | 1.83 | 2.29 | 2.72 | 3.02 | 3.05 | 2.82 | 2.40 | 1.91 | 1.43 |
| 04 SEX | 1.09 | 1.00 | 1.15 | 1.47 | 1.85 | 2.26 | 2.61 | 2.78 | 2.72 | 2.47 | 2.10 | 1.71 | 1.40 | 1.26 | 1.34 | 1.57 | 1.89 | 2.23 | 2.57 | 2.79 | 2.84 | 2.68 | 2.38 | 2.00 |
| 05 SAB | 1.63 | 1.35 | 1.23 | 1.29 | 1.48 | 1.75 | 2.06 | 2.35 | 2.53 | 2.54 | 2.40 | 2.16 | 1.87 | 1.63 | 1.48 | 1.48 | 1.61 | 1.82 | 2.09 | 2.38 | 2.61 | 2.72 | 2.66 | 2.47 |
| 06 DOM | 2.17 | 1.84 | 1.54 | 1.35 | 1.31 | 1.40 | 1.59 | 1.87 | 2.16 | 2.39 | 2.50 | 2.46 | 2.29 | 2.05 | 1.79 | 1.58 | 1.49 | 1.53 | 1.68 | 1.93 | 2.24 | 2.53 | 2.72 | 2.75 |
| 07 SEG | 2.62 | 2.34 | 1.98 | 1.62 | 1.35 | 1.22 | 1.26 | 1.44 | 1.75 | 2.10 | 2.41 | 2.59 | 2.60 | 2.44 | 2.16 | 1.83 | 1.54 | 1.38 | 1.37 | 1.53 | 1.83 | 2.21 | 2.57 | 2.83 |
| 08 TER | 2.90 | 2.76 | 2.43 | 2.00 | 1.57 | 1.23 | 1.07 | 1.13 | 1.37 | 1.75 | 2.18 | 2.55 | 2.77 | 2.76 | 2.53 | 2.16 | 1.74 | 1.39 | 1.19 | 1.21 | 1.44 | 1.83 | 2.28 | 2.71 |
| 09 QUA | 3.00 | 3.04 | 2.82 | 2.41 | 1.90 | 1.40 | 1.05 | 0.93 | 1.07 | 1.42 | 1.89 | 2.38 | 2.78 | 2.96 | 2.85 | 2.50 | 2.03 | 1.55 | 1.17 | 1.00 | 1.12 | 1.46 | 1.94 | 2.46 |
| 10 QUI | 2.91 | 3.17 | 3.11 | 2.77 | 2.26 | 1.69 | 1.17 | 0.86 | 0.85 | 1.13 | 1.59 | 2.13 | 2.65 | 3.02 | 3.08 | 2.82 | 2.35 | 1.81 | 1.29 | 0.94 | 0.88 | 1.14 | 1.60 | 2.15 |
| 11 SEX | 2.69 | 3.12 | 3.27 | 3.06 | 2.59 | 2.01 | 1.42 | 0.94 | 0.73 | 0.89 | 1.31 | 1.86 | 2.44 | 2.93 | 3.19 | 3.09 | 2.67 | 2.11 | 1.53 | 1.03 | 0.77 | 0.87 | 1.28 | 1.83 |
| 12 SAB | 2.41 | 2.93 | 3.27 | 3.25 | 2.89 | 2.32 | 1.71 | 1.14 | 0.75 | 0.73 | 1.06 | 1.60 | 2.19 | 2.74 | 3.16 | 3.25 | 2.96 | 2.42 | 1.82 | 1.24 | 0.81 | 0.71 | 1.00 | 1.52 |
| 13 DOM | 2.10 | 2.66 | 3.12 | 3.31 | 3.11 | 2.61 | 2.00 | 1.40 | 0.91 | 0.68 | 0.86 | 1.35 | 1.94 | 2.51 | 3.00 | 3.28 | 3.17 | 2.72 | 2.12 | 1.52 | 1.00 | 0.70 | 0.79 | 1.23 |
| 14 SEG | 1.81 | 2.37 | 2.88 | 3.22 | 3.22 | 2.85 | 2.28 | 1.68 | 1.14 | 0.78 | 0.76 | 1.13 | 1.69 | 2.26 | 2.78 | 3.17 | 3.26 | 2.97 | 2.42 | 1.81 | 1.26 | 0.84 | 0.73 | 1.00 |
| 15 TER | 1.53 | 2.09 | 2.60 | 3.01 | 3.19 | 3.00 | 2.53 | 1.95 | 1.41 | 0.97 | 0.79 | 0.98 | 1.46 | 2.02 | 2.54 | 2.98 | 3.21 | 3.11 | 2.69 | 2.12 | 1.55 | 1.08 | 0.81 | 0.89 |
| 16 QUA | 1.28 | 1.81 | 2.31 | 2.75 | 3.03 | 3.03 | 2.71 | 2.20 | 1.67 | 1.21 | 0.93 | 0.95 | 1.28 | 1.79 | 2.30 | 2.74 | 3.06 | 3.13 | 2.88 | 2.40 | 1.86 | 1.36 | 1.01 | 0.92 |
| 17 QUI | 1.13 | 1.56 | 2.03 | 2.46 | 2.79 | 2.93 | 2.79 | 2.41 | 1.93 | 1.48 | 1.14 | 1.03 | 1.19 | 1.58 | 2.05 | 2.48 | 2.83 | 3.01 | 2.94 | 2.62 | 2.16 | 1.68 | 1.28 | 1.07 |
| 18 SEX | 1.10 | 1.37 | 1.77 | 2.17 | 2.51 | 2.74 | 2.75 | 2.54 | 2.17 | 1.76 | 1.40 | 1.20 | 1.22 | 1.44 | 1.81 | 2.21 | 2.56 | 2.81 | 2.88 | 2.74 | 2.42 | 2.01 | 1.60 | 1.31 |
| 19 SAB | 1.20 | 1.30 | 1.55 | 1.88 | 2.21 | 2.47 | 2.61 | 2.57 | 2.36 | 2.04 | 1.71 | 1.45 | 1.34 | 1.41 | 1.63 | 1.93 | 2.25 | 2.53 | 2.71 | 2.73 | 2.59 | 2.32 | 1.97 | 1.63 |
| 20 DOM | 1.41 | 1.34 | 1.42 | 1.61 | 1.87 | 2.15 | 2.36 | 2.47 | 2.44 | 2.29 | 2.04 | 1.77 | 1.57 | 1.50 | 1.54 | 1.69 | 1.92 | 2.19 | 2.44 | 2.60 | 2.64 | 2.54 | 2.33 | 2.03 |
| 21 SEG | 1.73 | 1.52 | 1.42 | 1.43 | 1.56 | 1.77 | 2.03 | 2.25 | 2.39 | 2.43 | 2.34 | 2.16 | 1.92 | 1.71 | 1.59 | 1.56 | 1.63 | 1.81 | 2.07 | 2.33 | 2.54 | 2.64 | 2.61 | 2.45 |
| 22 TER | 2.16 | 1.83 | 1.56 | 1.39 | 1.32 | 1.40 | 1.61 | 1.90 | 2.19 | 2.42 | 2.54 | 2.52 | 2.34 | 2.06 | 1.78 | 1.57 | 1.45 | 1.46 | 1.63 | 1.94 | 2.28 | 2.57 | 2.76 | 2.79 |
| 23 QUA | 2.63 | 2.29 | 1.88 | 1.51 | 1.24 | 1.11 | 1.18 | 1.46 | 1.84 | 2.24 | 2.56 | 2.76 | 2.76 | 2.53 | 2.15 | 1.75 | 1.43 | 1.23 | 1.22 | 1.45 | 1.86 | 2.31 | 2.70 | 2.96 |
| 24 QUI | 3.03 | 2.82 | 2.37 | 1.85 | 1.37 | 1.02 | 0.86 | 0.98 | 1.36 | 1.88 | 2.38 | 2.79 | 3.03 | 2.99 | 2.65 | 2.13 | 1.62 | 1.21 | 0.95 | 0.98 | 1.32 | 1.86 | 2.42 | 2.90 |
| 25 SEX | 3.22 | 3.26 | 2.94 | 2.37 | 1.73 | 1.17 | 0.76 | 0.62 | 0.85 | 1.37 | 2.01 | 2.60 | 3.07 | 3.30 | 3.15 | 2.66 | 2.02 | 1.42 | 0.93 | 0.68 | 0.80 | 1.28 | 1.94 | 2.59 |
| 26 SAB | 3.13 | 3.46 | 3.43 | 2.97 | 2.28 | 1.55 | 0.93 | 0.51 | 0.46 | 0.84 | 1.49 | 2.21 | 2.85 | 3.34 | 3.50 | 3.21 | 2.58 | 1.85 | 1.17 | 0.66 | 0.46 | 0.72 | 1.34 | 2.08 |
| 27 DOM | 2.78 | 3.34 | 3.64 | 3.48 | 2.90 | 2.12 | 1.36 | 0.72 | 0.35 | 0.43 | 0.95 | 1.70 | 2.44 | 3.10 | 3.54 | 3.58 | 3.15 | 2.42 | 1.64 | 0.94 | 0.45 | 0.36 | 0.76 | 1.46 |
| 28 SEG | 2.23 | 2.94 | 3.49 | 3.69 | 3.41 | 2.74 | 1.93 | 1.17 | 0.57 | 0.30 | 0.54 | 1.17 | 1.93 | 2.66 | 3.29 | 3.65 | 3.54 | 2.99 | 2.22 | 1.44 | 0.76 | 0.34 | 0.39 | 0.89 |
| 29 TER | 1.62 | 2.36 | 3.04 | 3.53 | 3.62 | 3.22 | 2.52 | 1.75 | 1.04 | 0.52 | 0.40 | 0.77 | 1.43 | 2.15 | 2.84 | 3.40 | 3.63 | 3.39 | 2.79 | 2.04 | 1.29 | 0.67 | 0.37 | 0.54 |
| 30 QUA | 1.08 | 1.76 | 2.44 | 3.06 | 3.45 | 3.41 | 2.97 | 2.31 | 1.60 | 0.98 | 0.59 | 0.62 | 1.06 | 1.68 | 2.33 | 2.94 | 3.39 | 3.49 | 3.18 | 2.59 | 1.89 | 1.21 | 0.69 | 0.52 |

Barra de Setúbal (Troia)

Latitude 38° 29.67' N Longitude 8° 54.05' W

Horas do Fuso: 0 (TU)

MAIO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 01 QUI | 0.76 | 1.26 | 1.85 | 2.46 | 2.99 | 3.25 | 3.14 | 2.71 | 2.13 | 1.52 | 1.02 | 0.78 | 0.91 | 1.33 | 1.87 | 2.43 | 2.94 | 3.28 | 3.29 | 2.96 | 2.43 | 1.82 | 1.24 | 0.84 |
| 02 SEX | 0.75 | 0.98 | 1.41 | 1.90 | 2.41 | 2.82 | 3.00 | 2.86 | 2.50 | 2.02 | 1.53 | 1.16 | 1.02 | 1.18 | 1.54 | 1.98 | 2.44 | 2.86 | 3.10 | 3.07 | 2.78 | 2.34 | 1.83 | 1.35 |
| 03 SÁB | 1.04 | 0.98 | 1.16 | 1.49 | 1.88 | 2.29 | 2.62 | 2.75 | 2.65 | 2.36 | 1.99 | 1.62 | 1.35 | 1.26 | 1.38 | 1.66 | 2.00 | 2.37 | 2.71 | 2.90 | 2.89 | 2.68 | 2.32 | 1.91 |
| 04 DOM | 1.52 | 1.24 | 1.16 | 1.27 | 1.50 | 1.81 | 2.14 | 2.43 | 2.57 | 2.53 | 2.33 | 2.05 | 1.76 | 1.52 | 1.42 | 1.48 | 1.67 | 1.94 | 2.25 | 2.55 | 2.76 | 2.80 | 2.65 | 2.38 |
| 05 SEG | 2.03 | 1.66 | 1.38 | 1.25 | 1.29 | 1.45 | 1.71 | 2.03 | 2.32 | 2.50 | 2.52 | 2.39 | 2.16 | 1.88 | 1.62 | 1.47 | 1.47 | 1.60 | 1.84 | 2.14 | 2.46 | 2.70 | 2.79 | 2.70 |
| 06 TER | 2.46 | 2.12 | 1.74 | 1.41 | 1.24 | 1.24 | 1.38 | 1.65 | 1.99 | 2.32 | 2.54 | 2.60 | 2.49 | 2.25 | 1.93 | 1.62 | 1.42 | 1.38 | 1.50 | 1.74 | 2.08 | 2.44 | 2.72 | 2.85 |
| 07 QUA | 2.77 | 2.51 | 2.13 | 1.71 | 1.35 | 1.16 | 1.16 | 1.34 | 1.66 | 2.06 | 2.43 | 2.68 | 2.73 | 2.58 | 2.27 | 1.88 | 1.52 | 1.29 | 1.25 | 1.41 | 1.72 | 2.11 | 2.52 | 2.82 |
| 08 QUI | 2.94 | 2.82 | 2.49 | 2.05 | 1.59 | 1.22 | 1.04 | 1.11 | 1.37 | 1.77 | 2.22 | 2.62 | 2.86 | 2.84 | 2.59 | 2.19 | 1.75 | 1.35 | 1.12 | 1.14 | 1.38 | 1.77 | 2.23 | 2.66 |
| 09 SEX | 2.96 | 3.01 | 2.79 | 2.38 | 1.89 | 1.40 | 1.05 | 0.95 | 1.13 | 1.50 | 1.97 | 2.45 | 2.84 | 3.01 | 2.88 | 2.51 | 2.04 | 1.55 | 1.15 | 0.98 | 1.10 | 1.45 | 1.91 | 2.40 |
| 10 SÁB | 2.83 | 3.07 | 3.01 | 2.68 | 2.19 | 1.66 | 1.19 | 0.91 | 0.93 | 1.24 | 1.71 | 2.22 | 2.71 | 3.05 | 3.09 | 2.82 | 2.35 | 1.82 | 1.31 | 0.96 | 0.90 | 1.15 | 1.60 | 2.11 |
| 11 DOM | 2.60 | 2.99 | 3.12 | 2.92 | 2.48 | 1.95 | 1.42 | 0.99 | 0.83 | 1.01 | 1.45 | 1.97 | 2.50 | 2.95 | 3.18 | 3.07 | 2.66 | 2.12 | 1.57 | 1.09 | 0.83 | 0.92 | 1.30 | 1.80 |
| 12 SEG | 2.32 | 2.79 | 3.09 | 3.08 | 2.75 | 2.23 | 1.69 | 1.19 | 0.86 | 0.86 | 1.20 | 1.71 | 2.26 | 2.76 | 3.13 | 3.22 | 2.95 | 2.44 | 1.87 | 1.33 | 0.92 | 0.80 | 1.03 | 1.50 |
| 13 TER | 2.03 | 2.52 | 2.93 | 3.11 | 2.95 | 2.51 | 1.96 | 1.44 | 1.02 | 0.83 | 1.00 | 1.45 | 2.00 | 2.52 | 2.97 | 3.22 | 3.15 | 2.75 | 2.18 | 1.62 | 1.13 | 0.83 | 0.86 | 1.22 |
| 14 QUA | 1.73 | 2.23 | 2.69 | 3.00 | 3.04 | 2.74 | 2.24 | 1.71 | 1.24 | 0.93 | 0.90 | 1.22 | 1.73 | 2.26 | 2.74 | 3.10 | 3.21 | 2.99 | 2.50 | 1.93 | 1.40 | 1.00 | 0.84 | 1.02 |
| 15 QUI | 1.44 | 1.94 | 2.41 | 2.79 | 2.99 | 2.88 | 2.50 | 1.99 | 1.50 | 1.11 | 0.94 | 1.07 | 1.48 | 1.99 | 2.48 | 2.89 | 3.14 | 3.11 | 2.77 | 2.26 | 1.72 | 1.25 | 0.96 | 0.94 |
| 16 SEX | 1.21 | 1.65 | 2.11 | 2.52 | 2.82 | 2.89 | 2.68 | 2.26 | 1.78 | 1.36 | 1.09 | 1.05 | 1.29 | 1.72 | 2.20 | 2.63 | 2.95 | 3.08 | 2.94 | 2.56 | 2.06 | 1.57 | 1.18 | 1.00 |
| 17 SÁB | 1.09 | 1.40 | 1.81 | 2.22 | 2.57 | 2.77 | 2.75 | 2.49 | 2.09 | 1.66 | 1.32 | 1.15 | 1.21 | 1.49 | 1.90 | 2.33 | 2.69 | 2.93 | 2.97 | 2.78 | 2.39 | 1.92 | 1.49 | 1.19 |
| 18 DOM | 1.10 | 1.22 | 1.52 | 1.90 | 2.26 | 2.55 | 2.69 | 2.62 | 2.36 | 1.99 | 1.62 | 1.35 | 1.26 | 1.36 | 1.63 | 2.00 | 2.37 | 2.68 | 2.87 | 2.86 | 2.66 | 2.30 | 1.87 | 1.48 |
| 19 SEG | 1.24 | 1.18 | 1.30 | 1.57 | 1.91 | 2.24 | 2.49 | 2.61 | 2.54 | 2.32 | 1.99 | 1.67 | 1.44 | 1.36 | 1.45 | 1.67 | 2.00 | 2.34 | 2.63 | 2.80 | 2.80 | 2.62 | 2.29 | 1.89 |
| 20 TER | 1.52 | 1.29 | 1.21 | 1.30 | 1.54 | 1.86 | 2.18 | 2.45 | 2.59 | 2.56 | 2.37 | 2.07 | 1.76 | 1.51 | 1.40 | 1.44 | 1.62 | 1.92 | 2.26 | 2.57 | 2.77 | 2.81 | 2.67 | 2.35 |
| 21 QUA | 1.95 | 1.56 | 1.28 | 1.16 | 1.21 | 1.43 | 1.77 | 2.14 | 2.45 | 2.64 | 2.67 | 2.51 | 2.19 | 1.83 | 1.53 | 1.36 | 1.34 | 1.49 | 1.80 | 2.19 | 2.56 | 2.81 | 2.90 | 2.79 |
| 22 QUI | 2.46 | 2.00 | 1.56 | 1.22 | 1.05 | 1.07 | 1.31 | 1.71 | 2.15 | 2.53 | 2.78 | 2.84 | 2.67 | 2.30 | 1.85 | 1.47 | 1.23 | 1.16 | 1.32 | 1.69 | 2.16 | 2.60 | 2.92 | 3.06 |
| 23 SEX | 2.94 | 2.55 | 2.02 | 1.50 | 1.10 | 0.88 | 0.91 | 1.21 | 1.70 | 2.22 | 2.67 | 2.98 | 3.05 | 2.81 | 2.34 | 1.81 | 1.35 | 1.04 | 0.95 | 1.16 | 1.61 | 2.17 | 2.68 | 3.07 |
| 24 SÁB | 3.23 | 3.07 | 2.60 | 1.99 | 1.41 | 0.95 | 0.71 | 0.78 | 1.18 | 1.76 | 2.36 | 2.86 | 3.19 | 3.22 | 2.90 | 2.32 | 1.71 | 1.18 | 0.82 | 0.75 | 1.04 | 1.59 | 2.22 | 2.79 |
| 25 DOM | 3.22 | 3.37 | 3.14 | 2.59 | 1.91 | 1.28 | 0.80 | 0.57 | 0.73 | 1.22 | 1.88 | 2.53 | 3.07 | 3.39 | 3.34 | 2.91 | 2.25 | 1.57 | 0.99 | 0.62 | 0.61 | 1.00 | 1.62 | 2.30 |
| 26 SEG | 2.90 | 3.34 | 3.45 | 3.14 | 2.52 | 1.80 | 1.15 | 0.67 | 0.50 | 0.76 | 1.35 | 2.04 | 2.71 | 3.25 | 3.52 | 3.38 | 2.85 | 2.13 | 1.42 | 0.83 | 0.49 | 0.55 | 1.02 | 1.69 |
| 27 TER | 2.38 | 2.99 | 3.40 | 3.45 | 3.06 | 2.40 | 1.68 | 1.04 | 0.60 | 0.52 | 0.88 | 1.52 | 2.22 | 2.87 | 3.38 | 3.58 | 3.34 | 2.74 | 2.01 | 1.29 | 0.71 | 0.43 | 0.58 | 1.10 |
| 28 QUA | 1.77 | 2.44 | 3.03 | 3.40 | 3.35 | 2.91 | 2.25 | 1.56 | 0.96 | 0.60 | 0.63 | 1.07 | 1.71 | 2.38 | 2.99 | 3.45 | 3.55 | 3.23 | 2.61 | 1.89 | 1.20 | 0.66 | 0.46 | 0.69 |
| 29 QUI | 1.22 | 1.85 | 2.48 | 3.03 | 3.31 | 3.19 | 2.73 | 2.10 | 1.47 | 0.94 | 0.67 | 0.81 | 1.28 | 1.89 | 2.50 | 3.07 | 3.44 | 3.44 | 3.07 | 2.47 | 1.79 | 1.14 | 0.69 | 0.58 |
| 30 SEX | 0.85 | 1.35 | 1.92 | 2.50 | 2.97 | 3.16 | 2.98 | 2.53 | 1.97 | 1.41 | 0.97 | 0.82 | 1.03 | 1.48 | 2.03 | 2.58 | 3.07 | 3.35 | 3.28 | 2.90 | 2.34 | 1.72 | 1.15 | 0.79 |
| 31 SÁB | 0.75 | 1.03 | 1.47 | 1.97 | 2.48 | 2.86 | 2.97 | 2.78 | 2.37 | 1.87 | 1.40 | 1.07 | 1.00 | 1.23 | 1.65 | 2.13 | 2.61 | 3.01 | 3.20 | 3.10 | 2.74 | 2.23 | 1.69 | 1.21 |

Barra de Setúbal (Troia)

Latitude 38° 29.67' N Longitude 8° 54.05' W

Horas do Fuso: 0 (TU)

JUNHO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 DOM | 0.93 | 0.94 | 1.19 | 1.57 | 2.00 | 2.43 | 2.73 | 2.79 | 2.60 | 2.25 | 1.83 | 1.45 | 1.20 | 1.18 | 1.40 | 1.76 | 2.17 | 2.57 | 2.90 | 3.04 | 2.93 | 2.61 | 2.17 | 1.71 |
| 02 SEG | 1.31 | 1.08 | 1.10 | 1.31 | 1.63 | 2.00 | 2.36 | 2.61 | 2.65 | 2.49 | 2.19 | 1.85 | 1.53 | 1.32 | 1.32 | 1.50 | 1.80 | 2.15 | 2.50 | 2.78 | 2.90 | 2.80 | 2.53 | 2.15 |
| 03 TER | 1.75 | 1.40 | 1.20 | 1.21 | 1.39 | 1.66 | 1.99 | 2.31 | 2.54 | 2.58 | 2.45 | 2.20 | 1.89 | 1.60 | 1.41 | 1.39 | 1.54 | 1.79 | 2.10 | 2.43 | 2.69 | 2.80 | 2.73 | 2.49 |
| 04 QUA | 2.15 | 1.78 | 1.45 | 1.26 | 1.26 | 1.41 | 1.67 | 1.99 | 2.31 | 2.53 | 2.59 | 2.47 | 2.24 | 1.93 | 1.64 | 1.43 | 1.39 | 1.51 | 1.75 | 2.05 | 2.38 | 2.64 | 2.76 | 2.70 |
| 05 QUI | 2.47 | 2.14 | 1.77 | 1.44 | 1.25 | 1.25 | 1.42 | 1.70 | 2.04 | 2.37 | 2.60 | 2.66 | 2.53 | 2.27 | 1.94 | 1.61 | 1.39 | 1.33 | 1.46 | 1.71 | 2.04 | 2.38 | 2.66 | 2.78 |
| 06 SEX | 2.70 | 2.45 | 2.09 | 1.71 | 1.37 | 1.20 | 1.23 | 1.44 | 1.76 | 2.14 | 2.49 | 2.72 | 2.75 | 2.57 | 2.26 | 1.88 | 1.53 | 1.29 | 1.25 | 1.41 | 1.71 | 2.08 | 2.44 | 2.72 |
| 07 SÁB | 2.82 | 2.70 | 2.39 | 2.00 | 1.59 | 1.26 | 1.12 | 1.21 | 1.50 | 1.88 | 2.29 | 2.65 | 2.86 | 2.83 | 2.57 | 2.19 | 1.77 | 1.39 | 1.16 | 1.17 | 1.41 | 1.76 | 2.16 | 2.54 |
| 08 DOM | 2.81 | 2.86 | 2.66 | 2.29 | 1.86 | 1.44 | 1.14 | 1.06 | 1.25 | 1.61 | 2.05 | 2.48 | 2.84 | 2.98 | 2.86 | 2.51 | 2.06 | 1.61 | 1.23 | 1.04 | 1.14 | 1.45 | 1.86 | 2.29 |
| 09 SEG | 2.67 | 2.90 | 2.86 | 2.57 | 2.14 | 1.69 | 1.27 | 1.02 | 1.05 | 1.34 | 1.78 | 2.25 | 2.69 | 3.00 | 3.06 | 2.82 | 2.39 | 1.89 | 1.42 | 1.07 | 0.97 | 1.16 | 1.54 | 2.00 |
| 10 TER | 2.44 | 2.80 | 2.95 | 2.81 | 2.44 | 1.96 | 1.50 | 1.12 | 0.95 | 1.10 | 1.49 | 1.98 | 2.47 | 2.89 | 3.13 | 3.07 | 2.73 | 2.22 | 1.70 | 1.23 | 0.94 | 0.94 | 1.23 | 1.68 |
| 11 QUA | 2.16 | 2.59 | 2.90 | 2.96 | 2.71 | 2.26 | 1.76 | 1.31 | 1.00 | 0.95 | 1.21 | 1.68 | 2.20 | 2.68 | 3.05 | 3.20 | 3.02 | 2.57 | 2.02 | 1.49 | 1.07 | 0.86 | 0.98 | 1.36 |
| 12 QUI | 1.85 | 2.32 | 2.73 | 2.97 | 2.91 | 2.56 | 2.06 | 1.57 | 1.16 | 0.93 | 1.01 | 1.38 | 1.90 | 2.42 | 2.87 | 3.17 | 3.19 | 2.89 | 2.38 | 1.81 | 1.30 | 0.94 | 0.85 | 1.08 |
| 13 SEX | 1.53 | 2.02 | 2.47 | 2.83 | 2.97 | 2.80 | 2.38 | 1.87 | 1.40 | 1.05 | 0.93 | 1.13 | 1.59 | 2.12 | 2.61 | 3.01 | 3.22 | 3.12 | 2.73 | 2.17 | 1.61 | 1.15 | 0.87 | 0.90 |
| 14 SÁB | 1.22 | 1.69 | 2.17 | 2.60 | 2.89 | 2.93 | 2.66 | 2.20 | 1.69 | 1.27 | 1.00 | 1.00 | 1.30 | 1.79 | 2.30 | 2.75 | 3.09 | 3.20 | 3.00 | 2.54 | 1.98 | 1.45 | 1.04 | 0.87 |
| 15 DOM | 0.99 | 1.37 | 1.84 | 2.30 | 2.68 | 2.90 | 2.84 | 2.51 | 2.04 | 1.57 | 1.20 | 1.02 | 1.12 | 1.47 | 1.95 | 2.44 | 2.85 | 3.11 | 3.13 | 2.85 | 2.37 | 1.82 | 1.33 | 1.00 |
| 16 SEG | 0.91 | 1.11 | 1.50 | 1.96 | 2.38 | 2.72 | 2.86 | 2.74 | 2.39 | 1.93 | 1.50 | 1.19 | 1.09 | 1.24 | 1.61 | 2.07 | 2.51 | 2.88 | 3.08 | 3.03 | 2.72 | 2.24 | 1.72 | 1.27 |
| 17 TER | 1.00 | 0.98 | 1.20 | 1.59 | 2.02 | 2.42 | 2.72 | 2.81 | 2.67 | 2.32 | 1.89 | 1.49 | 1.22 | 1.16 | 1.33 | 1.68 | 2.11 | 2.53 | 2.87 | 3.03 | 2.95 | 2.64 | 2.17 | 1.67 |
| 18 QUA | 1.26 | 1.03 | 1.03 | 1.25 | 1.62 | 2.04 | 2.43 | 2.70 | 2.79 | 2.64 | 2.31 | 1.90 | 1.52 | 1.26 | 1.21 | 1.36 | 1.69 | 2.09 | 2.50 | 2.83 | 2.98 | 2.91 | 2.61 | 2.16 |
| 19 QUI | 1.67 | 1.27 | 1.05 | 1.05 | 1.25 | 1.61 | 2.03 | 2.43 | 2.71 | 2.80 | 2.68 | 2.37 | 1.95 | 1.55 | 1.29 | 1.21 | 1.33 | 1.62 | 2.03 | 2.45 | 2.80 | 2.97 | 2.92 | 2.64 |
| 20 SEX | 2.19 | 1.70 | 1.29 | 1.05 | 1.02 | 1.21 | 1.57 | 2.01 | 2.44 | 2.75 | 2.87 | 2.77 | 2.45 | 2.01 | 1.58 | 1.27 | 1.14 | 1.22 | 1.52 | 1.95 | 2.40 | 2.78 | 2.99 | 2.97 |
| 21 SÁB | 2.70 | 2.24 | 1.72 | 1.29 | 1.01 | 0.96 | 1.14 | 1.53 | 2.02 | 2.49 | 2.84 | 2.99 | 2.89 | 2.54 | 2.05 | 1.57 | 1.21 | 1.03 | 1.09 | 1.40 | 1.87 | 2.37 | 2.78 | 3.04 |
| 22 DOM | 3.05 | 2.77 | 2.28 | 1.73 | 1.26 | 0.95 | 0.87 | 1.08 | 1.52 | 2.06 | 2.57 | 2.96 | 3.14 | 3.02 | 2.61 | 2.06 | 1.53 | 1.11 | 0.88 | 0.94 | 1.29 | 1.81 | 2.35 | 2.81 |
| 23 SEG | 3.11 | 3.13 | 2.82 | 2.29 | 1.71 | 1.20 | 0.87 | 0.80 | 1.06 | 1.55 | 2.13 | 2.68 | 3.10 | 3.28 | 3.12 | 2.65 | 2.05 | 1.46 | 0.98 | 0.74 | 0.82 | 1.21 | 1.77 | 2.36 |
| 24 TER | 2.86 | 3.18 | 3.18 | 2.83 | 2.27 | 1.66 | 1.13 | 0.79 | 0.76 | 1.07 | 1.62 | 2.24 | 2.81 | 3.25 | 3.40 | 3.18 | 2.65 | 1.99 | 1.36 | 0.86 | 0.62 | 0.74 | 1.19 | 1.78 |
| 25 QUA | 2.39 | 2.92 | 3.23 | 3.19 | 2.80 | 2.20 | 1.58 | 1.04 | 0.72 | 0.75 | 1.14 | 1.73 | 2.37 | 2.95 | 3.37 | 3.47 | 3.18 | 2.60 | 1.91 | 1.26 | 0.75 | 0.54 | 0.73 | 1.22 |
| 26 QUI | 1.83 | 2.45 | 2.98 | 3.25 | 3.15 | 2.70 | 2.09 | 1.47 | 0.96 | 0.69 | 0.80 | 1.26 | 1.87 | 2.51 | 3.08 | 3.46 | 3.48 | 3.11 | 2.49 | 1.80 | 1.15 | 0.67 | 0.53 | 0.79 |
| 27 SEX | 1.31 | 1.92 | 2.52 | 3.02 | 3.23 | 3.05 | 2.56 | 1.95 | 1.36 | 0.89 | 0.71 | 0.92 | 1.42 | 2.03 | 2.64 | 3.18 | 3.49 | 3.42 | 2.98 | 2.35 | 1.68 | 1.05 | 0.64 | 0.60 |
| 28 SÁB | 0.93 | 1.45 | 2.03 | 2.60 | 3.03 | 3.14 | 2.88 | 2.38 | 1.80 | 1.26 | 0.87 | 0.79 | 1.09 | 1.61 | 2.19 | 2.75 | 3.23 | 3.43 | 3.27 | 2.80 | 2.19 | 1.55 | 0.99 | 0.69 |
| 29 DOM | 0.75 | 1.12 | 1.62 | 2.16 | 2.66 | 2.99 | 3.00 | 2.68 | 2.20 | 1.67 | 1.20 | 0.91 | 0.94 | 1.29 | 1.79 | 2.32 | 2.83 | 3.20 | 3.30 | 3.07 | 2.59 | 2.02 | 1.45 | 0.99 |
| 30 SEG | 0.81 | 0.95 | 1.33 | 1.78 | 2.26 | 2.68 | 2.90 | 2.82 | 2.49 | 2.04 | 1.57 | 1.19 | 1.01 | 1.13 | 1.49 | 1.95 | 2.41 | 2.84 | 3.11 | 3.12 | 2.84 | 2.40 | 1.89 | 1.40 |

Barra de Setúbal (Troia)

Latitude 38° 29.67' N Longitude 8° 54.05' W

Horas do Fuso: 0 (TU)

JULHO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 TER | 1.06 | 0.97 | 1.16 | 1.51 | 1.92 | 2.33 | 2.66 | 2.79 | 2.65 | 2.33 | 1.93 | 1.54 | 1.24 | 1.15 | 1.31 | 1.65 | 2.05 | 2.44 | 2.78 | 2.97 | 2.91 | 2.64 | 2.23 | 1.80 |
| 02 QUA | 1.41 | 1.16 | 1.14 | 1.34 | 1.66 | 2.01 | 2.36 | 2.61 | 2.67 | 2.52 | 2.23 | 1.88 | 1.56 | 1.33 | 1.29 | 1.45 | 1.75 | 2.09 | 2.42 | 2.69 | 2.82 | 2.74 | 2.48 | 2.13 |
| 03 QUI | 1.76 | 1.45 | 1.26 | 1.28 | 1.47 | 1.75 | 2.06 | 2.35 | 2.56 | 2.60 | 2.46 | 2.20 | 1.89 | 1.61 | 1.42 | 1.39 | 1.53 | 1.78 | 2.07 | 2.36 | 2.59 | 2.69 | 2.61 | 2.39 |
| 04 SEX | 2.08 | 1.76 | 1.49 | 1.34 | 1.35 | 1.53 | 1.79 | 2.08 | 2.35 | 2.54 | 2.58 | 2.46 | 2.21 | 1.93 | 1.66 | 1.47 | 1.42 | 1.53 | 1.76 | 2.03 | 2.30 | 2.52 | 2.62 | 2.56 |
| 05 SÁB | 2.35 | 2.07 | 1.77 | 1.51 | 1.35 | 1.37 | 1.54 | 1.81 | 2.10 | 2.38 | 2.58 | 2.63 | 2.50 | 2.26 | 1.96 | 1.67 | 1.46 | 1.39 | 1.49 | 1.71 | 1.99 | 2.27 | 2.50 | 2.62 |
| 06 DOM | 2.56 | 2.35 | 2.05 | 1.74 | 1.47 | 1.32 | 1.34 | 1.54 | 1.83 | 2.16 | 2.46 | 2.68 | 2.72 | 2.57 | 2.28 | 1.95 | 1.63 | 1.38 | 1.30 | 1.42 | 1.67 | 1.98 | 2.29 | 2.55 |
| 07 SEG | 2.67 | 2.59 | 2.34 | 2.02 | 1.68 | 1.39 | 1.24 | 1.30 | 1.55 | 1.89 | 2.26 | 2.60 | 2.81 | 2.82 | 2.61 | 2.27 | 1.88 | 1.52 | 1.25 | 1.20 | 1.36 | 1.66 | 2.01 | 2.37 |
| 08 TER | 2.64 | 2.74 | 2.62 | 2.32 | 1.94 | 1.56 | 1.26 | 1.15 | 1.27 | 1.59 | 1.99 | 2.41 | 2.77 | 2.96 | 2.91 | 2.62 | 2.20 | 1.76 | 1.36 | 1.11 | 1.10 | 1.33 | 1.70 | 2.11 |
| 09 QUA | 2.49 | 2.76 | 2.82 | 2.62 | 2.24 | 1.81 | 1.41 | 1.12 | 1.07 | 1.28 | 1.68 | 2.15 | 2.60 | 2.95 | 3.09 | 2.95 | 2.57 | 2.07 | 1.58 | 1.17 | 0.96 | 1.03 | 1.35 | 1.79 |
| 10 QUI | 2.25 | 2.65 | 2.89 | 2.87 | 2.57 | 2.12 | 1.64 | 1.24 | 0.99 | 1.02 | 1.34 | 1.83 | 2.34 | 2.80 | 3.13 | 3.19 | 2.94 | 2.45 | 1.89 | 1.38 | 0.98 | 0.84 | 1.02 | 1.44 |
| 11 SEX | 1.94 | 2.42 | 2.81 | 3.00 | 2.87 | 2.47 | 1.95 | 1.46 | 1.07 | 0.89 | 1.03 | 1.47 | 2.02 | 2.56 | 3.00 | 3.27 | 3.23 | 2.84 | 2.27 | 1.68 | 1.16 | 0.81 | 0.77 | 1.08 |
| 12 SÁB | 1.59 | 2.12 | 2.60 | 2.96 | 3.06 | 2.81 | 2.31 | 1.76 | 1.27 | 0.92 | 0.84 | 1.12 | 1.65 | 2.23 | 2.76 | 3.18 | 3.36 | 3.18 | 2.69 | 2.06 | 1.45 | 0.96 | 0.69 | 0.79 |
| 13 DOM | 1.21 | 1.77 | 2.31 | 2.78 | 3.07 | 3.05 | 2.68 | 2.13 | 1.57 | 1.10 | 0.82 | 0.88 | 1.28 | 1.86 | 2.44 | 2.94 | 3.30 | 3.37 | 3.06 | 2.49 | 1.84 | 1.25 | 0.81 | 0.66 |
| 14 SEG | 0.89 | 1.39 | 1.95 | 2.48 | 2.91 | 3.11 | 2.97 | 2.52 | 1.95 | 1.40 | 0.98 | 0.81 | 0.99 | 1.47 | 2.05 | 2.61 | 3.07 | 3.35 | 3.29 | 2.89 | 2.28 | 1.64 | 1.08 | 0.73 |
| 15 TER | 0.72 | 1.05 | 1.57 | 2.11 | 2.61 | 2.98 | 3.08 | 2.84 | 2.35 | 1.79 | 1.28 | 0.93 | 0.87 | 1.14 | 1.64 | 2.20 | 2.72 | 3.13 | 3.31 | 3.15 | 2.70 | 2.09 | 1.49 | 1.00 |
| 16 QUA | 0.75 | 0.84 | 1.22 | 1.72 | 2.23 | 2.69 | 2.98 | 2.99 | 2.70 | 2.22 | 1.69 | 1.23 | 0.96 | 0.99 | 1.29 | 1.77 | 2.29 | 2.76 | 3.11 | 3.20 | 2.99 | 2.54 | 1.96 | 1.41 |
| 17 QUI | 1.00 | 0.84 | 0.99 | 1.36 | 1.82 | 2.30 | 2.70 | 2.93 | 2.89 | 2.60 | 2.14 | 1.66 | 1.25 | 1.05 | 1.11 | 1.40 | 1.83 | 2.30 | 2.72 | 3.02 | 3.07 | 2.86 | 2.43 | 1.91 |
| 18 SEX | 1.41 | 1.07 | 0.96 | 1.11 | 1.44 | 1.87 | 2.30 | 2.67 | 2.87 | 2.82 | 2.56 | 2.14 | 1.69 | 1.33 | 1.14 | 1.19 | 1.43 | 1.80 | 2.23 | 2.63 | 2.89 | 2.95 | 2.77 | 2.40 |
| 19 SÁB | 1.93 | 1.48 | 1.17 | 1.07 | 1.18 | 1.46 | 1.85 | 2.27 | 2.63 | 2.82 | 2.81 | 2.59 | 2.21 | 1.78 | 1.42 | 1.21 | 1.20 | 1.38 | 1.70 | 2.11 | 2.50 | 2.78 | 2.88 | 2.76 |
| 20 DOM | 2.44 | 2.00 | 1.57 | 1.26 | 1.12 | 1.18 | 1.42 | 1.80 | 2.23 | 2.60 | 2.83 | 2.88 | 2.69 | 2.33 | 1.88 | 1.49 | 1.22 | 1.14 | 1.26 | 1.56 | 1.97 | 2.38 | 2.71 | 2.87 |
| 21 SEG | 2.81 | 2.52 | 2.09 | 1.65 | 1.30 | 1.11 | 1.12 | 1.36 | 1.75 | 2.20 | 2.62 | 2.91 | 3.00 | 2.83 | 2.45 | 1.97 | 1.51 | 1.17 | 1.01 | 1.10 | 1.41 | 1.84 | 2.31 | 2.70 |
| 22 TER | 2.92 | 2.90 | 2.61 | 2.16 | 1.68 | 1.28 | 1.03 | 1.03 | 1.28 | 1.72 | 2.22 | 2.70 | 3.05 | 3.16 | 2.97 | 2.54 | 2.00 | 1.47 | 1.06 | 0.86 | 0.95 | 1.29 | 1.78 | 2.30 |
| 23 QUA | 2.75 | 3.02 | 2.99 | 2.67 | 2.17 | 1.64 | 1.19 | 0.92 | 0.93 | 1.24 | 1.74 | 2.31 | 2.83 | 3.21 | 3.31 | 3.07 | 2.57 | 1.96 | 1.37 | 0.91 | 0.70 | 0.83 | 1.24 | 1.79 |
| 24 QUI | 2.37 | 2.86 | 3.12 | 3.05 | 2.66 | 2.11 | 1.54 | 1.06 | 0.80 | 0.87 | 1.26 | 1.83 | 2.45 | 3.00 | 3.38 | 3.43 | 3.10 | 2.51 | 1.85 | 1.22 | 0.75 | 0.59 | 0.80 | 1.29 |
| 25 SEX | 1.89 | 2.49 | 2.98 | 3.21 | 3.05 | 2.57 | 1.97 | 1.39 | 0.91 | 0.70 | 0.88 | 1.37 | 1.99 | 2.62 | 3.17 | 3.50 | 3.45 | 3.02 | 2.38 | 1.69 | 1.05 | 0.61 | 0.56 | 0.89 |
| 26 SÁB | 1.44 | 2.05 | 2.65 | 3.10 | 3.23 | 2.94 | 2.40 | 1.79 | 1.21 | 0.78 | 0.68 | 0.99 | 1.56 | 2.19 | 2.81 | 3.32 | 3.55 | 3.36 | 2.84 | 2.17 | 1.49 | 0.89 | 0.56 | 0.65 |
| 27 DOM | 1.08 | 1.65 | 2.25 | 2.81 | 3.17 | 3.14 | 2.75 | 2.18 | 1.58 | 1.04 | 0.71 | 0.77 | 1.20 | 1.79 | 2.40 | 2.97 | 3.39 | 3.48 | 3.16 | 2.59 | 1.93 | 1.29 | 0.78 | 0.61 |
| 28 SEG | 0.85 | 1.34 | 1.89 | 2.45 | 2.93 | 3.14 | 2.97 | 2.51 | 1.94 | 1.39 | 0.93 | 0.75 | 0.96 | 1.45 | 2.02 | 2.58 | 3.08 | 3.36 | 3.29 | 2.88 | 2.31 | 1.70 | 1.14 | 0.78 |
| 29 TER | 0.79 | 1.12 | 1.61 | 2.12 | 2.61 | 2.96 | 3.01 | 2.73 | 2.26 | 1.73 | 1.25 | 0.93 | 0.91 | 1.22 | 1.71 | 2.22 | 2.71 | 3.08 | 3.22 | 3.02 | 2.58 | 2.04 | 1.51 | 1.08 |
| 30 QUA | 0.90 | 1.03 | 1.41 | 1.86 | 2.30 | 2.69 | 2.90 | 2.82 | 2.49 | 2.04 | 1.59 | 1.21 | 1.03 | 1.13 | 1.47 | 1.92 | 2.36 | 2.74 | 2.99 | 2.99 | 2.73 | 2.31 | 1.84 | 1.42 |
| 31 QUI | 1.13 | 1.08 | 1.29 | 1.65 | 2.04 | 2.40 | 2.68 | 2.77 | 2.63 | 2.30 | 1.91 | 1.54 | 1.28 | 1.20 | 1.35 | 1.67 | 2.05 | 2.40 | 2.68 | 2.82 | 2.75 | 2.48 | 2.12 | 1.74 |

Barra de Setúbal (Troia)

Latitude 38° 29.67' N Longitude 8° 54.05' W

Horas do Fuso: 0 (TU)

AGOSTO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 SEX | 1.43 | 1.26 | 1.28 | 1.50 | 1.81 | 2.13 | 2.41 | 2.61 | 2.63 | 2.48 | 2.19 | 1.86 | 1.58 | 1.40 | 1.37 | 1.52 | 1.78 | 2.08 | 2.35 | 2.55 | 2.63 | 2.55 | 2.32 | 2.02 |
| 02 SAB | 1.73 | 1.51 | 1.40 | 1.44 | 1.62 | 1.87 | 2.14 | 2.37 | 2.52 | 2.54 | 2.41 | 2.17 | 1.91 | 1.68 | 1.53 | 1.49 | 1.59 | 1.79 | 2.03 | 2.25 | 2.42 | 2.49 | 2.43 | 2.26 |
| 03 DOM | 2.02 | 1.78 | 1.60 | 1.49 | 1.51 | 1.65 | 1.87 | 2.11 | 2.32 | 2.48 | 2.52 | 2.43 | 2.23 | 2.00 | 1.78 | 1.60 | 1.52 | 1.56 | 1.72 | 1.93 | 2.14 | 2.32 | 2.43 | 2.42 |
| 04 SEG | 2.29 | 2.08 | 1.85 | 1.65 | 1.51 | 1.48 | 1.60 | 1.81 | 2.07 | 2.31 | 2.51 | 2.59 | 2.53 | 2.34 | 2.08 | 1.82 | 1.59 | 1.45 | 1.46 | 1.61 | 1.83 | 2.08 | 2.31 | 2.47 |
| 05 TER | 2.50 | 2.37 | 2.14 | 1.88 | 1.63 | 1.44 | 1.39 | 1.52 | 1.76 | 2.07 | 2.37 | 2.62 | 2.73 | 2.66 | 2.43 | 2.11 | 1.78 | 1.48 | 1.30 | 1.31 | 1.49 | 1.78 | 2.09 | 2.39 |
| 06 QUA | 2.59 | 2.62 | 2.46 | 2.17 | 1.83 | 1.52 | 1.29 | 1.26 | 1.43 | 1.76 | 2.14 | 2.51 | 2.80 | 2.91 | 2.79 | 2.47 | 2.06 | 1.64 | 1.29 | 1.11 | 1.16 | 1.43 | 1.80 | 2.20 |
| 07 QUI | 2.55 | 2.77 | 2.76 | 2.51 | 2.12 | 1.71 | 1.34 | 1.11 | 1.13 | 1.40 | 1.82 | 2.29 | 2.72 | 3.02 | 3.09 | 2.87 | 2.43 | 1.92 | 1.44 | 1.06 | 0.91 | 1.06 | 1.44 | 1.91 |
| 08 SEX | 2.38 | 2.77 | 2.96 | 2.86 | 2.49 | 2.00 | 1.52 | 1.12 | 0.92 | 1.04 | 1.44 | 1.97 | 2.51 | 2.96 | 3.24 | 3.22 | 2.86 | 2.30 | 1.71 | 1.18 | 0.81 | 0.75 | 1.03 | 1.54 |
| 09 SAB | 2.10 | 2.61 | 3.00 | 3.12 | 2.88 | 2.38 | 1.80 | 1.28 | 0.89 | 0.77 | 1.03 | 1.57 | 2.19 | 2.76 | 3.21 | 3.43 | 3.26 | 2.75 | 2.09 | 1.45 | 0.91 | 0.60 | 0.68 | 1.12 |
| 10 DOM | 1.73 | 2.32 | 2.85 | 3.20 | 3.20 | 2.80 | 2.19 | 1.57 | 1.04 | 0.70 | 0.71 | 1.13 | 1.78 | 2.43 | 3.00 | 3.43 | 3.53 | 3.19 | 2.56 | 1.84 | 1.18 | 0.67 | 0.48 | 0.73 |
| 11 SEG | 1.30 | 1.95 | 2.56 | 3.07 | 3.32 | 3.16 | 2.63 | 1.97 | 1.34 | 0.83 | 0.58 | 0.77 | 1.33 | 2.01 | 2.66 | 3.22 | 3.56 | 3.50 | 3.02 | 2.31 | 1.58 | 0.94 | 0.51 | 0.49 |
| 12 TER | 0.90 | 1.54 | 2.19 | 2.78 | 3.22 | 3.34 | 3.02 | 2.41 | 1.74 | 1.13 | 0.69 | 0.59 | 0.93 | 1.56 | 2.23 | 2.85 | 3.35 | 3.57 | 3.36 | 2.78 | 2.06 | 1.35 | 0.78 | 0.49 |
| 13 QUA | 0.64 | 1.14 | 1.77 | 2.39 | 2.93 | 3.27 | 3.23 | 2.82 | 2.19 | 1.55 | 0.99 | 0.66 | 0.72 | 1.16 | 1.77 | 2.40 | 2.96 | 3.37 | 3.45 | 3.13 | 2.53 | 1.85 | 1.20 | 0.74 |
| 14 QUI | 0.61 | 0.87 | 1.39 | 1.97 | 2.52 | 2.98 | 3.20 | 3.05 | 2.61 | 2.02 | 1.43 | 0.96 | 0.76 | 0.92 | 1.37 | 1.92 | 2.47 | 2.96 | 3.26 | 3.23 | 2.88 | 2.33 | 1.71 | 1.17 |
| 15 SEX | 0.84 | 0.82 | 1.12 | 1.59 | 2.09 | 2.57 | 2.94 | 3.05 | 2.87 | 2.45 | 1.93 | 1.42 | 1.05 | 0.94 | 1.13 | 1.51 | 1.98 | 2.44 | 2.84 | 3.06 | 2.99 | 2.68 | 2.20 | 1.69 |
| 16 SAB | 1.25 | 1.02 | 1.05 | 1.31 | 1.70 | 2.12 | 2.52 | 2.82 | 2.89 | 2.73 | 2.39 | 1.95 | 1.52 | 1.22 | 1.13 | 1.26 | 1.55 | 1.92 | 2.31 | 2.65 | 2.83 | 2.80 | 2.56 | 2.18 |
| 17 DOM | 1.77 | 1.42 | 1.22 | 1.23 | 1.41 | 1.71 | 2.06 | 2.42 | 2.68 | 2.78 | 2.69 | 2.43 | 2.07 | 1.69 | 1.40 | 1.27 | 1.30 | 1.49 | 1.78 | 2.12 | 2.44 | 2.65 | 2.69 | 2.55 |
| 18 SEG | 2.27 | 1.91 | 1.59 | 1.37 | 1.31 | 1.40 | 1.63 | 1.95 | 2.30 | 2.60 | 2.77 | 2.76 | 2.57 | 2.24 | 1.86 | 1.53 | 1.30 | 1.23 | 1.33 | 1.58 | 1.92 | 2.28 | 2.56 | 2.69 |
| 19 TER | 2.64 | 2.41 | 2.06 | 1.70 | 1.42 | 1.27 | 1.30 | 1.50 | 1.83 | 2.23 | 2.60 | 2.85 | 2.92 | 2.76 | 2.41 | 1.98 | 1.56 | 1.23 | 1.08 | 1.14 | 1.40 | 1.79 | 2.22 | 2.58 |
| 20 QUA | 2.80 | 2.79 | 2.54 | 2.15 | 1.72 | 1.36 | 1.14 | 1.14 | 1.37 | 1.77 | 2.25 | 2.70 | 3.03 | 3.12 | 2.93 | 2.52 | 2.00 | 1.48 | 1.08 | 0.88 | 0.96 | 1.29 | 1.76 | 2.27 |
| 21 QUI | 2.71 | 2.96 | 2.93 | 2.61 | 2.14 | 1.63 | 1.21 | 0.96 | 1.00 | 1.31 | 1.81 | 2.36 | 2.88 | 3.23 | 3.30 | 3.03 | 2.51 | 1.90 | 1.32 | 0.87 | 0.70 | 0.87 | 1.30 | 1.85 |
| 22 SEX | 2.42 | 2.90 | 3.12 | 3.00 | 2.57 | 2.02 | 1.46 | 1.00 | 0.79 | 0.92 | 1.35 | 1.94 | 2.56 | 3.10 | 3.43 | 3.40 | 3.00 | 2.39 | 1.72 | 1.10 | 0.67 | 0.60 | 0.90 | 1.43 |
| 23 SAB | 2.05 | 2.64 | 3.10 | 3.22 | 2.96 | 2.42 | 1.81 | 1.23 | 0.79 | 0.68 | 0.96 | 1.51 | 2.16 | 2.79 | 3.31 | 3.55 | 3.36 | 2.84 | 2.16 | 1.47 | 0.87 | 0.54 | 0.63 | 1.07 |
| 24 DOM | 1.67 | 2.30 | 2.88 | 3.24 | 3.21 | 2.79 | 2.19 | 1.56 | 0.99 | 0.64 | 0.70 | 1.14 | 1.76 | 2.41 | 3.02 | 3.46 | 3.53 | 3.19 | 2.57 | 1.88 | 1.21 | 0.69 | 0.53 | 0.81 |
| 25 SEG | 1.35 | 1.97 | 2.57 | 3.08 | 3.28 | 3.06 | 2.53 | 1.90 | 1.30 | 0.80 | 0.61 | 0.86 | 1.41 | 2.04 | 2.66 | 3.19 | 3.49 | 3.37 | 2.89 | 2.25 | 1.58 | 0.98 | 0.62 | 0.68 |
| 26 TER | 1.10 | 1.68 | 2.26 | 2.80 | 3.17 | 3.18 | 2.81 | 2.23 | 1.63 | 1.08 | 0.72 | 0.73 | 1.13 | 1.72 | 2.31 | 2.85 | 3.27 | 3.37 | 3.09 | 2.54 | 1.92 | 1.33 | 0.86 | 0.71 |
| 27 QUA | 0.95 | 1.45 | 2.00 | 2.51 | 2.95 | 3.14 | 2.97 | 2.50 | 1.94 | 1.40 | 0.97 | 0.79 | 0.98 | 1.45 | 2.00 | 2.52 | 2.96 | 3.21 | 3.13 | 2.74 | 2.20 | 1.65 | 1.17 | 0.89 |
| 28 QUI | 0.93 | 1.28 | 1.77 | 2.25 | 2.68 | 2.97 | 2.98 | 2.69 | 2.22 | 1.71 | 1.27 | 0.99 | 0.98 | 1.28 | 1.74 | 2.21 | 2.63 | 2.93 | 3.02 | 2.82 | 2.41 | 1.92 | 1.47 | 1.15 |
| 29 SEX | 1.04 | 1.21 | 1.59 | 2.02 | 2.41 | 2.72 | 2.87 | 2.76 | 2.44 | 2.01 | 1.59 | 1.27 | 1.14 | 1.24 | 1.55 | 1.94 | 2.32 | 2.62 | 2.79 | 2.76 | 2.52 | 2.15 | 1.75 | 1.43 |
| 30 SAB | 1.25 | 1.27 | 1.48 | 1.81 | 2.16 | 2.46 | 2.66 | 2.70 | 2.55 | 2.26 | 1.90 | 1.59 | 1.38 | 1.34 | 1.47 | 1.72 | 2.03 | 2.31 | 2.51 | 2.59 | 2.52 | 2.30 | 2.01 | 1.71 |
| 31 DOM | 1.51 | 1.42 | 1.48 | 1.66 | 1.92 | 2.18 | 2.40 | 2.54 | 2.55 | 2.42 | 2.19 | 1.92 | 1.68 | 1.55 | 1.52 | 1.60 | 1.78 | 2.00 | 2.20 | 2.35 | 2.41 | 2.36 | 2.21 | 1.99 |

Barra de Setúbal (Troia)

Latitude 38° 29.67' N Longitude 8° 54.05' W

Horas do Fuso: 0 (TU)

SETEMBRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 01 SEG | 1.79 | 1.64 | 1.58 | 1.60 | 1.72 | 1.91 | 2.12 | 2.30 | 2.43 | 2.47 | 2.40 | 2.23 | 2.02 | 1.83 | 1.68 | 1.61 | 1.61 | 1.71 | 1.88 | 2.05 | 2.20 | 2.30 | 2.32 | 2.24 |
| 02 TER | 2.09 | 1.91 | 1.76 | 1.65 | 1.61 | 1.66 | 1.81 | 2.01 | 2.22 | 2.39 | 2.50 | 2.49 | 2.37 | 2.16 | 1.94 | 1.73 | 1.57 | 1.50 | 1.56 | 1.72 | 1.93 | 2.14 | 2.32 | 2.41 |
| 03 QUA | 2.38 | 2.23 | 2.02 | 1.81 | 1.61 | 1.50 | 1.51 | 1.68 | 1.93 | 2.21 | 2.46 | 2.64 | 2.67 | 2.54 | 2.27 | 1.96 | 1.66 | 1.41 | 1.30 | 1.37 | 1.59 | 1.88 | 2.19 | 2.45 |
| 04 QUI | 2.60 | 2.57 | 2.36 | 2.05 | 1.74 | 1.46 | 1.30 | 1.33 | 1.57 | 1.92 | 2.30 | 2.64 | 2.86 | 2.89 | 2.68 | 2.30 | 1.88 | 1.47 | 1.17 | 1.06 | 1.20 | 1.54 | 1.95 | 2.36 |
| 05 SEX | 2.69 | 2.84 | 2.74 | 2.41 | 1.98 | 1.56 | 1.22 | 1.06 | 1.17 | 1.53 | 2.01 | 2.49 | 2.89 | 3.13 | 3.08 | 2.73 | 2.22 | 1.68 | 1.20 | 0.88 | 0.84 | 1.12 | 1.60 | 2.12 |
| 06 SÁB | 2.61 | 2.97 | 3.07 | 2.83 | 2.35 | 1.81 | 1.31 | 0.94 | 0.84 | 1.09 | 1.60 | 2.20 | 2.75 | 3.18 | 3.37 | 3.19 | 2.68 | 2.04 | 1.41 | 0.89 | 0.61 | 0.70 | 1.15 | 1.76 |
| 07 DOM | 2.37 | 2.90 | 3.24 | 3.22 | 2.81 | 2.19 | 1.56 | 1.02 | 0.68 | 0.69 | 1.12 | 1.78 | 2.45 | 3.04 | 3.46 | 3.54 | 3.18 | 2.52 | 1.78 | 1.11 | 0.60 | 0.42 | 0.70 | 1.31 |
| 08 SEG | 2.00 | 2.65 | 3.18 | 3.43 | 3.24 | 2.67 | 1.96 | 1.29 | 0.74 | 0.48 | 0.67 | 1.27 | 2.01 | 2.71 | 3.30 | 3.66 | 3.58 | 3.05 | 2.28 | 1.50 | 0.83 | 0.38 | 0.37 | 0.84 |
| 09 TER | 1.55 | 2.27 | 2.92 | 3.40 | 3.51 | 3.13 | 2.44 | 1.69 | 1.02 | 0.52 | 0.41 | 0.80 | 1.50 | 2.26 | 2.94 | 3.50 | 3.73 | 3.47 | 2.81 | 2.01 | 1.24 | 0.61 | 0.30 | 0.49 |
| 10 QUA | 1.10 | 1.83 | 2.52 | 3.13 | 3.50 | 3.43 | 2.92 | 2.19 | 1.45 | 0.81 | 0.43 | 0.50 | 1.02 | 1.75 | 2.46 | 3.10 | 3.57 | 3.64 | 3.24 | 2.54 | 1.76 | 1.04 | 0.52 | 0.40 |
| 11 QUI | 0.75 | 1.39 | 2.08 | 2.72 | 3.24 | 3.46 | 3.24 | 2.66 | 1.96 | 1.27 | 0.72 | 0.49 | 0.71 | 1.28 | 1.95 | 2.59 | 3.15 | 3.49 | 3.41 | 2.95 | 2.28 | 1.57 | 0.96 | 0.60 |
| 12 SEX | 0.64 | 1.07 | 1.66 | 2.26 | 2.81 | 3.22 | 3.29 | 2.99 | 2.44 | 1.80 | 1.20 | 0.78 | 0.69 | 0.98 | 1.49 | 2.06 | 2.60 | 3.06 | 3.26 | 3.11 | 2.67 | 2.09 | 1.50 | 1.02 |
| 13 SÁB | 0.82 | 0.95 | 1.35 | 1.84 | 2.34 | 2.79 | 3.07 | 3.07 | 2.77 | 2.29 | 1.75 | 1.27 | 0.96 | 0.95 | 1.20 | 1.61 | 2.06 | 2.50 | 2.85 | 2.97 | 2.82 | 2.47 | 2.01 | 1.55 |
| 14 DOM | 1.21 | 1.09 | 1.23 | 1.53 | 1.91 | 2.31 | 2.66 | 2.87 | 2.86 | 2.63 | 2.26 | 1.84 | 1.45 | 1.21 | 1.18 | 1.34 | 1.61 | 1.94 | 2.29 | 2.58 | 2.70 | 2.63 | 2.39 | 2.06 |
| 15 SEG | 1.71 | 1.45 | 1.34 | 1.40 | 1.59 | 1.86 | 2.18 | 2.49 | 2.70 | 2.74 | 2.62 | 2.36 | 2.02 | 1.68 | 1.43 | 1.31 | 1.34 | 1.50 | 1.75 | 2.06 | 2.34 | 2.52 | 2.56 | 2.44 |
| 16 TER | 2.20 | 1.91 | 1.65 | 1.48 | 1.43 | 1.52 | 1.73 | 2.02 | 2.34 | 2.61 | 2.75 | 2.73 | 2.55 | 2.23 | 1.87 | 1.54 | 1.32 | 1.24 | 1.32 | 1.54 | 1.87 | 2.21 | 2.49 | 2.62 |
| 17 QUA | 2.58 | 2.38 | 2.06 | 1.74 | 1.47 | 1.34 | 1.36 | 1.56 | 1.88 | 2.27 | 2.63 | 2.87 | 2.92 | 2.75 | 2.39 | 1.95 | 1.52 | 1.20 | 1.05 | 1.12 | 1.39 | 1.79 | 2.22 | 2.59 |
| 18 QUI | 2.79 | 2.76 | 2.50 | 2.11 | 1.70 | 1.35 | 1.15 | 1.18 | 1.43 | 1.85 | 2.33 | 2.77 | 3.07 | 3.12 | 2.88 | 2.44 | 1.90 | 1.39 | 1.01 | 0.86 | 0.99 | 1.35 | 1.85 | 2.36 |
| 19 SEX | 2.79 | 2.99 | 2.88 | 2.52 | 2.03 | 1.53 | 1.13 | 0.94 | 1.05 | 1.41 | 1.93 | 2.49 | 2.99 | 3.28 | 3.25 | 2.90 | 2.35 | 1.73 | 1.17 | 0.79 | 0.72 | 0.98 | 1.46 | 2.04 |
| 20 SÁB | 2.60 | 3.02 | 3.14 | 2.90 | 2.42 | 1.84 | 1.29 | 0.89 | 0.79 | 1.03 | 1.52 | 2.12 | 2.73 | 3.22 | 3.43 | 3.26 | 2.77 | 2.14 | 1.48 | 0.92 | 0.62 | 0.71 | 1.12 | 1.70 |
| 21 DOM | 2.32 | 2.88 | 3.22 | 3.18 | 2.78 | 2.19 | 1.58 | 1.02 | 0.70 | 0.74 | 1.15 | 1.74 | 2.38 | 2.98 | 3.40 | 3.47 | 3.12 | 2.52 | 1.85 | 1.19 | 0.70 | 0.57 | 0.85 | 1.38 |
| 22 SEG | 2.01 | 2.62 | 3.12 | 3.31 | 3.08 | 2.54 | 1.91 | 1.29 | 0.79 | 0.61 | 0.85 | 1.39 | 2.03 | 2.65 | 3.19 | 3.48 | 3.35 | 2.85 | 2.20 | 1.53 | 0.94 | 0.59 | 0.67 | 1.12 |
| 23 TER | 1.72 | 2.34 | 2.90 | 3.27 | 3.26 | 2.85 | 2.24 | 1.60 | 1.03 | 0.66 | 0.67 | 1.09 | 1.70 | 2.32 | 2.89 | 3.31 | 3.41 | 3.09 | 2.50 | 1.85 | 1.24 | 0.77 | 0.63 | 0.92 |
| 24 QUA | 1.47 | 2.07 | 2.63 | 3.09 | 3.28 | 3.06 | 2.54 | 1.92 | 1.33 | 0.85 | 0.66 | 0.89 | 1.41 | 2.01 | 2.57 | 3.04 | 3.30 | 3.19 | 2.74 | 2.14 | 1.54 | 1.03 | 0.74 | 0.83 |
| 25 QUI | 1.27 | 1.83 | 2.37 | 2.85 | 3.16 | 3.15 | 2.78 | 2.22 | 1.64 | 1.14 | 0.81 | 0.82 | 1.19 | 1.73 | 2.27 | 2.73 | 3.08 | 3.15 | 2.88 | 2.38 | 1.82 | 1.32 | 0.96 | 0.87 |
| 26 SEX | 1.14 | 1.62 | 2.13 | 2.59 | 2.95 | 3.09 | 2.91 | 2.47 | 1.94 | 1.44 | 1.06 | 0.92 | 1.09 | 1.50 | 1.99 | 2.43 | 2.79 | 2.98 | 2.89 | 2.54 | 2.06 | 1.59 | 1.22 | 1.03 |
| 27 SÁB | 1.12 | 1.46 | 1.91 | 2.34 | 2.70 | 2.92 | 2.91 | 2.64 | 2.21 | 1.75 | 1.36 | 1.13 | 1.13 | 1.37 | 1.75 | 2.15 | 2.49 | 2.72 | 2.77 | 2.60 | 2.25 | 1.85 | 1.49 | 1.26 |
| 28 DOM | 1.22 | 1.40 | 1.73 | 2.10 | 2.44 | 2.68 | 2.79 | 2.69 | 2.41 | 2.05 | 1.68 | 1.41 | 1.29 | 1.36 | 1.59 | 1.89 | 2.19 | 2.43 | 2.57 | 2.54 | 2.36 | 2.07 | 1.76 | 1.52 |
| 29 SEG | 1.40 | 1.44 | 1.62 | 1.88 | 2.16 | 2.41 | 2.58 | 2.62 | 2.52 | 2.29 | 2.00 | 1.73 | 1.54 | 1.48 | 1.53 | 1.69 | 1.90 | 2.13 | 2.30 | 2.38 | 2.36 | 2.23 | 2.03 | 1.81 |
| 30 TER | 1.65 | 1.58 | 1.61 | 1.71 | 1.89 | 2.11 | 2.31 | 2.45 | 2.50 | 2.44 | 2.29 | 2.07 | 1.85 | 1.69 | 1.60 | 1.59 | 1.66 | 1.81 | 1.99 | 2.15 | 2.26 | 2.30 | 2.25 | 2.12 |

Barra de Setúbal (Troia)

Latitude 38° 29.67' N Longitude 8° 54.05' W

Horas do Fuso: 0 (TU)

OUTUBRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 QUA | 1.95 | 1.80 | 1.70 | 1.65 | 1.68 | 1.80 | 1.98 | 2.19 | 2.36 | 2.48 | 2.50 | 2.41 | 2.22 | 1.99 | 1.77 | 1.60 | 1.50 | 1.51 | 1.63 | 1.84 | 2.05 | 2.24 | 2.37 | 2.40 |
| 02 QUI | 2.30 | 2.11 | 1.90 | 1.71 | 1.57 | 1.52 | 1.62 | 1.84 | 2.12 | 2.38 | 2.58 | 2.67 | 2.61 | 2.38 | 2.06 | 1.75 | 1.48 | 1.30 | 1.29 | 1.46 | 1.74 | 2.07 | 2.36 | 2.57 |
| 03 SEX | 2.63 | 2.50 | 2.21 | 1.89 | 1.59 | 1.36 | 1.29 | 1.44 | 1.76 | 2.14 | 2.51 | 2.80 | 2.92 | 2.81 | 2.47 | 2.03 | 1.60 | 1.24 | 1.02 | 1.05 | 1.33 | 1.75 | 2.20 | 2.59 |
| 04 SAB | 2.86 | 2.88 | 2.64 | 2.21 | 1.76 | 1.36 | 1.08 | 1.05 | 1.30 | 1.77 | 2.28 | 2.74 | 3.08 | 3.18 | 2.96 | 2.47 | 1.89 | 1.36 | 0.93 | 0.74 | 0.88 | 1.32 | 1.88 | 2.43 |
| 05 DOM | 2.89 | 3.15 | 3.08 | 2.67 | 2.10 | 1.53 | 1.06 | 0.79 | 0.85 | 1.27 | 1.88 | 2.50 | 3.03 | 3.37 | 3.38 | 3.00 | 2.35 | 1.67 | 1.06 | 0.63 | 0.52 | 0.83 | 1.43 | 2.11 |
| 06 SEG | 2.72 | 3.20 | 3.39 | 3.16 | 2.58 | 1.89 | 1.25 | 0.75 | 0.54 | 0.77 | 1.36 | 2.08 | 2.76 | 3.31 | 3.61 | 3.48 | 2.92 | 2.15 | 1.40 | 0.77 | 0.38 | 0.42 | 0.92 | 1.65 |
| 07 TER | 2.38 | 3.02 | 3.46 | 3.52 | 3.10 | 2.39 | 1.63 | 0.96 | 0.49 | 0.40 | 0.81 | 1.54 | 2.31 | 3.00 | 3.54 | 3.73 | 3.43 | 2.73 | 1.91 | 1.14 | 0.53 | 0.25 | 0.49 | 1.14 |
| 08 QUA | 1.92 | 2.65 | 3.27 | 3.62 | 3.51 | 2.93 | 2.15 | 1.37 | 0.71 | 0.33 | 0.41 | 0.98 | 1.75 | 2.52 | 3.19 | 3.66 | 3.71 | 3.25 | 2.49 | 1.67 | 0.93 | 0.40 | 0.30 | 0.70 |
| 09 QUI | 1.42 | 2.18 | 2.87 | 3.42 | 3.64 | 3.36 | 2.70 | 1.91 | 1.16 | 0.57 | 0.32 | 0.57 | 1.20 | 1.95 | 2.66 | 3.28 | 3.63 | 3.53 | 2.98 | 2.23 | 1.47 | 0.81 | 0.43 | 0.50 |
| 10 SEX | 1.01 | 1.70 | 2.39 | 3.01 | 3.45 | 3.51 | 3.12 | 2.46 | 1.72 | 1.04 | 0.56 | 0.46 | 0.81 | 1.42 | 2.08 | 2.71 | 3.23 | 3.45 | 3.24 | 2.70 | 2.03 | 1.36 | 0.83 | 0.61 |
| 11 SAB | 0.81 | 1.32 | 1.92 | 2.51 | 3.04 | 3.35 | 3.29 | 2.88 | 2.28 | 1.63 | 1.05 | 0.70 | 0.71 | 1.06 | 1.58 | 2.13 | 2.66 | 3.06 | 3.17 | 2.93 | 2.46 | 1.90 | 1.36 | 0.98 |
| 12 DOM | 0.89 | 1.12 | 1.56 | 2.05 | 2.53 | 2.95 | 3.15 | 3.05 | 2.69 | 2.19 | 1.65 | 1.19 | 0.93 | 0.97 | 1.25 | 1.64 | 2.07 | 2.50 | 2.80 | 2.86 | 2.68 | 2.32 | 1.89 | 1.48 |
| 13 SEG | 1.22 | 1.18 | 1.36 | 1.69 | 2.06 | 2.45 | 2.77 | 2.93 | 2.86 | 2.60 | 2.21 | 1.78 | 1.41 | 1.19 | 1.17 | 1.33 | 1.60 | 1.93 | 2.27 | 2.53 | 2.63 | 2.53 | 2.30 | 1.98 |
| 14 TER | 1.68 | 1.46 | 1.39 | 1.48 | 1.69 | 1.97 | 2.28 | 2.58 | 2.76 | 2.77 | 2.62 | 2.33 | 1.97 | 1.63 | 1.37 | 1.27 | 1.31 | 1.48 | 1.75 | 2.06 | 2.34 | 2.51 | 2.52 | 2.39 |
| 15 QUA | 2.15 | 1.86 | 1.62 | 1.47 | 1.46 | 1.59 | 1.81 | 2.12 | 2.44 | 2.69 | 2.80 | 2.73 | 2.50 | 2.15 | 1.77 | 1.44 | 1.24 | 1.21 | 1.33 | 1.59 | 1.94 | 2.28 | 2.53 | 2.63 |
| 16 QUI | 2.54 | 2.30 | 1.97 | 1.65 | 1.42 | 1.34 | 1.42 | 1.66 | 2.02 | 2.41 | 2.74 | 2.92 | 2.89 | 2.64 | 2.25 | 1.79 | 1.38 | 1.12 | 1.05 | 1.20 | 1.52 | 1.94 | 2.36 | 2.68 |
| 17 SEX | 2.80 | 2.68 | 2.37 | 1.96 | 1.56 | 1.26 | 1.16 | 1.28 | 1.59 | 2.03 | 2.50 | 2.89 | 3.09 | 3.02 | 2.69 | 2.21 | 1.68 | 1.22 | 0.95 | 0.93 | 1.16 | 1.58 | 2.08 | 2.56 |
| 18 SAB | 2.89 | 2.96 | 2.74 | 2.32 | 1.83 | 1.37 | 1.05 | 1.00 | 1.21 | 1.63 | 2.15 | 2.67 | 3.07 | 3.22 | 3.05 | 2.62 | 2.06 | 1.48 | 1.01 | 0.79 | 0.89 | 1.25 | 1.76 | 2.32 |
| 19 DOM | 2.81 | 3.09 | 3.03 | 2.68 | 2.16 | 1.61 | 1.12 | 0.86 | 0.91 | 1.26 | 1.78 | 2.35 | 2.89 | 3.24 | 3.28 | 2.96 | 2.42 | 1.81 | 1.23 | 0.81 | 0.72 | 0.98 | 1.46 | 2.04 |
| 20 SEG | 2.61 | 3.06 | 3.21 | 2.99 | 2.50 | 1.92 | 1.34 | 0.89 | 0.74 | 0.96 | 1.43 | 2.01 | 2.60 | 3.09 | 3.34 | 3.20 | 2.75 | 2.15 | 1.52 | 0.98 | 0.69 | 0.78 | 1.19 | 1.76 |
| 21 TER | 2.36 | 2.90 | 3.23 | 3.21 | 2.82 | 2.24 | 1.63 | 1.08 | 0.73 | 0.75 | 1.12 | 1.68 | 2.28 | 2.83 | 3.23 | 3.31 | 3.01 | 2.45 | 1.83 | 1.24 | 0.80 | 0.68 | 0.97 | 1.50 |
| 22 QUA | 2.09 | 2.66 | 3.12 | 3.29 | 3.08 | 2.56 | 1.95 | 1.35 | 0.88 | 0.68 | 0.88 | 1.38 | 1.97 | 2.53 | 3.01 | 3.27 | 3.16 | 2.72 | 2.12 | 1.53 | 1.01 | 0.73 | 0.82 | 1.26 |
| 23 QUI | 1.84 | 2.41 | 2.91 | 3.23 | 3.22 | 2.84 | 2.26 | 1.66 | 1.13 | 0.77 | 0.77 | 1.13 | 1.68 | 2.23 | 2.73 | 3.10 | 3.18 | 2.90 | 2.38 | 1.80 | 1.28 | 0.89 | 0.80 | 1.08 |
| 24 SEX | 1.60 | 2.16 | 2.66 | 3.06 | 3.22 | 3.03 | 2.55 | 1.97 | 1.42 | 0.99 | 0.80 | 0.97 | 1.42 | 1.94 | 2.43 | 2.84 | 3.06 | 2.98 | 2.59 | 2.06 | 1.55 | 1.12 | 0.90 | 1.00 |
| 25 SAB | 1.40 | 1.92 | 2.41 | 2.83 | 3.09 | 3.08 | 2.77 | 2.26 | 1.73 | 1.27 | 0.97 | 0.95 | 1.23 | 1.69 | 2.15 | 2.55 | 2.85 | 2.92 | 2.71 | 2.29 | 1.81 | 1.38 | 1.09 | 1.04 |
| 26 DOM | 1.27 | 1.69 | 2.16 | 2.57 | 2.88 | 3.01 | 2.88 | 2.51 | 2.03 | 1.57 | 1.22 | 1.07 | 1.17 | 1.48 | 1.88 | 2.27 | 2.58 | 2.75 | 2.71 | 2.45 | 2.05 | 1.65 | 1.33 | 1.19 |
| 27 SEG | 1.26 | 1.53 | 1.92 | 2.30 | 2.63 | 2.84 | 2.86 | 2.66 | 2.31 | 1.90 | 1.52 | 1.28 | 1.23 | 1.37 | 1.65 | 1.98 | 2.29 | 2.52 | 2.60 | 2.50 | 2.26 | 1.93 | 1.61 | 1.40 |
| 28 TER | 1.35 | 1.46 | 1.71 | 2.03 | 2.34 | 2.59 | 2.72 | 2.69 | 2.51 | 2.21 | 1.86 | 1.57 | 1.40 | 1.38 | 1.50 | 1.72 | 1.98 | 2.23 | 2.40 | 2.45 | 2.37 | 2.18 | 1.92 | 1.68 |
| 29 QUA | 1.53 | 1.50 | 1.59 | 1.78 | 2.03 | 2.29 | 2.49 | 2.61 | 2.59 | 2.46 | 2.21 | 1.92 | 1.66 | 1.51 | 1.46 | 1.51 | 1.67 | 1.90 | 2.12 | 2.29 | 2.38 | 2.36 | 2.23 | 2.02 |
| 30 QUI | 1.81 | 1.65 | 1.58 | 1.60 | 1.72 | 1.93 | 2.18 | 2.40 | 2.55 | 2.60 | 2.52 | 2.31 | 2.02 | 1.75 | 1.54 | 1.42 | 1.41 | 1.54 | 1.76 | 2.03 | 2.26 | 2.42 | 2.47 | 2.39 |
| 31 SEX | 2.18 | 1.92 | 1.70 | 1.55 | 1.49 | 1.57 | 1.78 | 2.08 | 2.37 | 2.60 | 2.72 | 2.68 | 2.46 | 2.12 | 1.76 | 1.47 | 1.27 | 1.22 | 1.36 | 1.65 | 2.00 | 2.33 | 2.58 | 2.68 |

Barra de Setúbal (Troia)

Latitude 38° 29.67' N Longitude 8° 54.05' W

Horas do Fuso: 0 (TU)

NOVEMBRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 SÁB | 2.59 | 2.32 | 1.97 | 1.64 | 1.40 | 1.28 | 1.36 | 1.65 | 2.04 | 2.44 | 2.75 | 2.92 | 2.88 | 2.59 | 2.15 | 1.68 | 1.29 | 1.03 | 0.99 | 1.20 | 1.61 | 2.08 | 2.50 | 2.82 |
| 02 DOM | 2.94 | 2.79 | 2.39 | 1.92 | 1.48 | 1.16 | 1.02 | 1.17 | 1.57 | 2.09 | 2.58 | 2.97 | 3.17 | 3.07 | 2.66 | 2.09 | 1.52 | 1.06 | 0.77 | 0.78 | 1.12 | 1.67 | 2.25 | 2.75 |
| 03 SEG | 3.11 | 3.18 | 2.90 | 2.36 | 1.77 | 1.25 | 0.87 | 0.77 | 1.04 | 1.59 | 2.22 | 2.79 | 3.22 | 3.40 | 3.19 | 2.64 | 1.96 | 1.31 | 0.80 | 0.54 | 0.66 | 1.15 | 1.82 | 2.48 |
| 04 TER | 3.03 | 3.37 | 3.34 | 2.91 | 2.24 | 1.56 | 0.98 | 0.61 | 0.60 | 1.01 | 1.68 | 2.39 | 3.01 | 3.45 | 3.55 | 3.21 | 2.54 | 1.77 | 1.09 | 0.57 | 0.39 | 0.66 | 1.29 | 2.03 |
| 05 QUA | 2.73 | 3.28 | 3.56 | 3.40 | 2.82 | 2.06 | 1.33 | 0.73 | 0.41 | 0.52 | 1.07 | 1.82 | 2.55 | 3.19 | 3.59 | 3.59 | 3.12 | 2.37 | 1.58 | 0.89 | 0.42 | 0.37 | 0.79 | 1.51 |
| 06 QUI | 2.27 | 2.95 | 3.47 | 3.64 | 3.34 | 2.66 | 1.86 | 1.12 | 0.55 | 0.32 | 0.57 | 1.21 | 1.97 | 2.69 | 3.30 | 3.63 | 3.50 | 2.94 | 2.17 | 1.40 | 0.76 | 0.39 | 0.48 | 1.01 |
| 07 SEX | 1.75 | 2.47 | 3.12 | 3.56 | 3.61 | 3.18 | 2.47 | 1.69 | 0.98 | 0.47 | 0.35 | 0.71 | 1.37 | 2.08 | 2.76 | 3.31 | 3.54 | 3.31 | 2.71 | 1.99 | 1.28 | 0.72 | 0.48 | 0.71 |
| 08 SÁB | 1.28 | 1.96 | 2.63 | 3.20 | 3.54 | 3.47 | 2.99 | 2.30 | 1.57 | 0.92 | 0.51 | 0.51 | 0.91 | 1.51 | 2.15 | 2.76 | 3.22 | 3.34 | 3.05 | 2.49 | 1.84 | 1.23 | 0.79 | 0.69 |
| 09 DOM | 0.98 | 1.52 | 2.12 | 2.70 | 3.19 | 3.42 | 3.27 | 2.80 | 2.18 | 1.52 | 0.96 | 0.66 | 0.73 | 1.10 | 1.61 | 2.16 | 2.68 | 3.04 | 3.08 | 2.80 | 2.32 | 1.77 | 1.27 | 0.95 |
| 10 SEG | 0.94 | 1.23 | 1.69 | 2.20 | 2.69 | 3.08 | 3.23 | 3.07 | 2.66 | 2.12 | 1.56 | 1.10 | 0.87 | 0.94 | 1.24 | 1.65 | 2.10 | 2.53 | 2.81 | 2.83 | 2.61 | 2.22 | 1.78 | 1.39 |
| 11 TER | 1.16 | 1.18 | 1.41 | 1.78 | 2.19 | 2.60 | 2.92 | 3.04 | 2.91 | 2.58 | 2.14 | 1.67 | 1.29 | 1.08 | 1.11 | 1.32 | 1.63 | 2.00 | 2.36 | 2.61 | 2.65 | 2.50 | 2.21 | 1.87 |
| 12 QUA | 1.55 | 1.35 | 1.34 | 1.50 | 1.78 | 2.11 | 2.46 | 2.75 | 2.89 | 2.82 | 2.58 | 2.22 | 1.81 | 1.45 | 1.23 | 1.19 | 1.32 | 1.57 | 1.88 | 2.22 | 2.48 | 2.57 | 2.49 | 2.28 |
| 13 QUI | 1.99 | 1.69 | 1.47 | 1.40 | 1.49 | 1.70 | 1.99 | 2.33 | 2.64 | 2.82 | 2.81 | 2.63 | 2.31 | 1.92 | 1.55 | 1.28 | 1.20 | 1.28 | 1.49 | 1.81 | 2.16 | 2.46 | 2.60 | 2.57 |
| 14 SEX | 2.38 | 2.08 | 1.75 | 1.48 | 1.36 | 1.40 | 1.59 | 1.89 | 2.26 | 2.61 | 2.83 | 2.87 | 2.70 | 2.37 | 1.95 | 1.54 | 1.25 | 1.13 | 1.21 | 1.45 | 1.81 | 2.21 | 2.54 | 2.72 |
| 15 SÁB | 2.68 | 2.45 | 2.10 | 1.72 | 1.40 | 1.25 | 1.29 | 1.51 | 1.86 | 2.28 | 2.66 | 2.91 | 2.94 | 2.74 | 2.35 | 1.89 | 1.45 | 1.14 | 1.04 | 1.18 | 1.49 | 1.91 | 2.36 | 2.71 |
| 16 DOM | 2.86 | 2.77 | 2.46 | 2.04 | 1.60 | 1.25 | 1.11 | 1.20 | 1.49 | 1.91 | 2.38 | 2.78 | 3.01 | 2.98 | 2.69 | 2.25 | 1.74 | 1.29 | 1.00 | 0.98 | 1.22 | 1.62 | 2.10 | 2.57 |
| 17 SEG | 2.91 | 2.99 | 2.78 | 2.37 | 1.89 | 1.41 | 1.08 | 0.99 | 1.18 | 1.57 | 2.05 | 2.53 | 2.93 | 3.09 | 2.95 | 2.57 | 2.06 | 1.53 | 1.10 | 0.90 | 1.00 | 1.35 | 1.83 | 2.35 |
| 18 TER | 2.81 | 3.07 | 3.03 | 2.70 | 2.21 | 1.68 | 1.20 | 0.92 | 0.95 | 1.26 | 1.72 | 2.23 | 2.72 | 3.05 | 3.10 | 2.84 | 2.37 | 1.82 | 1.30 | 0.94 | 0.86 | 1.11 | 1.56 | 2.09 |
| 19 QUA | 2.61 | 3.02 | 3.17 | 2.98 | 2.53 | 1.98 | 1.44 | 1.01 | 0.83 | 1.00 | 1.41 | 1.92 | 2.44 | 2.88 | 3.12 | 3.03 | 2.64 | 2.11 | 1.57 | 1.10 | 0.84 | 0.92 | 1.30 | 1.83 |
| 20 QUI | 2.37 | 2.86 | 3.17 | 3.17 | 2.84 | 2.31 | 1.74 | 1.22 | 0.87 | 0.83 | 1.13 | 1.62 | 2.14 | 2.63 | 3.00 | 3.10 | 2.87 | 2.39 | 1.85 | 1.33 | 0.95 | 0.84 | 1.08 | 1.56 |
| 21 SEX | 2.11 | 2.62 | 3.04 | 3.23 | 3.07 | 2.62 | 2.06 | 1.50 | 1.04 | 0.81 | 0.93 | 1.33 | 1.84 | 2.34 | 2.78 | 3.04 | 3.00 | 2.64 | 2.12 | 1.60 | 1.15 | 0.89 | 0.94 | 1.32 |
| 22 SÁB | 1.84 | 2.37 | 2.83 | 3.15 | 3.18 | 2.89 | 2.38 | 1.81 | 1.30 | 0.94 | 0.86 | 1.10 | 1.56 | 2.06 | 2.51 | 2.87 | 3.00 | 2.82 | 2.39 | 1.87 | 1.40 | 1.05 | 0.93 | 1.14 |
| 23 DOM | 1.58 | 2.10 | 2.58 | 2.96 | 3.16 | 3.05 | 2.66 | 2.13 | 1.60 | 1.17 | 0.93 | 0.98 | 1.31 | 1.77 | 2.23 | 2.62 | 2.87 | 2.87 | 2.60 | 2.14 | 1.66 | 1.27 | 1.04 | 1.07 |
| 24 SEG | 1.37 | 1.83 | 2.31 | 2.72 | 3.01 | 3.08 | 2.87 | 2.44 | 1.93 | 1.45 | 1.12 | 1.00 | 1.15 | 1.51 | 1.94 | 2.35 | 2.66 | 2.81 | 2.71 | 2.39 | 1.95 | 1.53 | 1.23 | 1.12 |
| 25 TER | 1.24 | 1.59 | 2.02 | 2.45 | 2.79 | 2.98 | 2.95 | 2.68 | 2.25 | 1.78 | 1.38 | 1.14 | 1.11 | 1.31 | 1.66 | 2.05 | 2.39 | 2.63 | 2.70 | 2.55 | 2.23 | 1.84 | 1.49 | 1.27 |
| 26 QUA | 1.24 | 1.41 | 1.74 | 2.14 | 2.50 | 2.77 | 2.89 | 2.81 | 2.53 | 2.13 | 1.71 | 1.37 | 1.20 | 1.22 | 1.42 | 1.74 | 2.08 | 2.38 | 2.57 | 2.60 | 2.45 | 2.16 | 1.81 | 1.52 |
| 27 QUI | 1.36 | 1.36 | 1.52 | 1.82 | 2.16 | 2.48 | 2.72 | 2.81 | 2.72 | 2.46 | 2.09 | 1.70 | 1.41 | 1.26 | 1.28 | 1.45 | 1.74 | 2.06 | 2.34 | 2.52 | 2.56 | 2.44 | 2.18 | 1.87 |
| 28 SEX | 1.59 | 1.43 | 1.41 | 1.54 | 1.79 | 2.12 | 2.43 | 2.67 | 2.77 | 2.71 | 2.48 | 2.12 | 1.74 | 1.44 | 1.27 | 1.25 | 1.40 | 1.67 | 2.00 | 2.31 | 2.53 | 2.60 | 2.52 | 2.28 |
| 29 SÁB | 1.96 | 1.65 | 1.45 | 1.38 | 1.46 | 1.70 | 2.03 | 2.38 | 2.66 | 2.80 | 2.78 | 2.56 | 2.19 | 1.77 | 1.43 | 1.21 | 1.15 | 1.28 | 1.58 | 1.96 | 2.33 | 2.60 | 2.73 | 2.67 |
| 30 DOM | 2.41 | 2.03 | 1.66 | 1.39 | 1.26 | 1.31 | 1.56 | 1.95 | 2.36 | 2.70 | 2.91 | 2.91 | 2.68 | 2.26 | 1.77 | 1.36 | 1.09 | 1.00 | 1.14 | 1.50 | 1.97 | 2.41 | 2.75 | 2.92 |

Barra de Setúbal (Troia)

Latitude 38° 29.67' N Longitude 8° 54.05' W

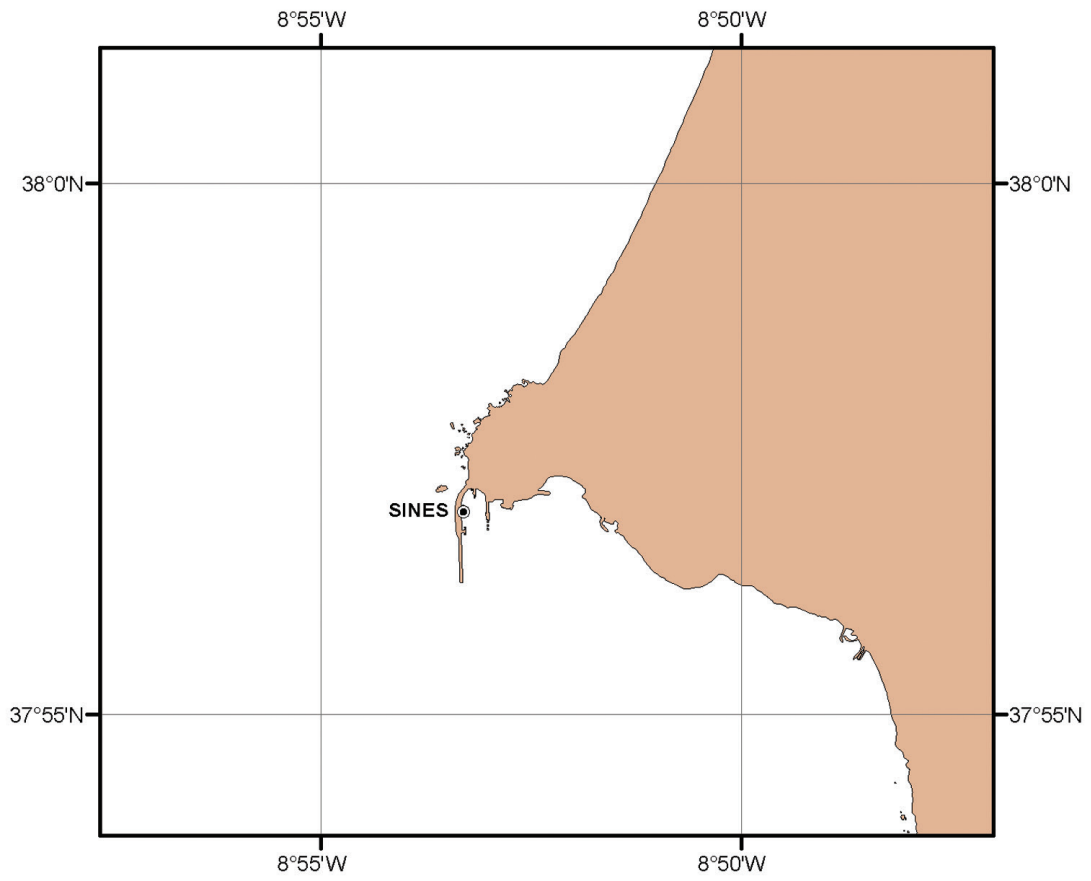
Horas do Fuso: 0 (TU)

DEZEMBRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 SEG | 2.85 | 2.53 | 2.06 | 1.61 | 1.26 | 1.07 | 1.12 | 1.43 | 1.90 | 2.39 | 2.81 | 3.06 | 3.08 | 2.79 | 2.29 | 1.72 | 1.25 | 0.92 | 0.83 | 1.03 | 1.49 | 2.04 | 2.55 | 2.95 |
| 02 TER | 3.13 | 3.01 | 2.59 | 2.03 | 1.49 | 1.07 | 0.85 | 0.94 | 1.33 | 1.90 | 2.47 | 2.94 | 3.23 | 3.22 | 2.86 | 2.27 | 1.64 | 1.10 | 0.75 | 0.69 | 0.98 | 1.54 | 2.16 | 2.74 |
| 03 QUA | 3.16 | 3.33 | 3.12 | 2.59 | 1.94 | 1.33 | 0.87 | 0.65 | 0.80 | 1.29 | 1.93 | 2.56 | 3.08 | 3.37 | 3.31 | 2.86 | 2.20 | 1.52 | 0.95 | 0.61 | 0.61 | 1.01 | 1.65 | 2.33 |
| 04 QUI | 2.93 | 3.36 | 3.46 | 3.16 | 2.54 | 1.82 | 1.17 | 0.68 | 0.50 | 0.74 | 1.31 | 1.99 | 2.65 | 3.19 | 3.46 | 3.32 | 2.80 | 2.09 | 1.40 | 0.83 | 0.52 | 0.62 | 1.11 | 1.80 |
| 05 SEX | 2.50 | 3.10 | 3.50 | 3.53 | 3.13 | 2.44 | 1.69 | 1.02 | 0.54 | 0.43 | 0.75 | 1.36 | 2.07 | 2.73 | 3.25 | 3.47 | 3.25 | 2.68 | 1.96 | 1.28 | 0.74 | 0.51 | 0.71 | 1.27 |
| 06 SAB | 1.97 | 2.65 | 3.24 | 3.58 | 3.51 | 3.04 | 2.32 | 1.58 | 0.91 | 0.47 | 0.44 | 0.83 | 1.45 | 2.13 | 2.78 | 3.26 | 3.40 | 3.11 | 2.52 | 1.83 | 1.19 | 0.72 | 0.58 | 0.88 |
| 07 DOM | 1.46 | 2.13 | 2.78 | 3.31 | 3.58 | 3.42 | 2.90 | 2.20 | 1.48 | 0.86 | 0.49 | 0.54 | 0.96 | 1.56 | 2.19 | 2.79 | 3.20 | 3.26 | 2.93 | 2.35 | 1.72 | 1.14 | 0.76 | 0.73 |
| 08 SEG | 1.08 | 1.64 | 2.26 | 2.85 | 3.32 | 3.49 | 3.27 | 2.75 | 2.09 | 1.42 | 0.87 | 0.60 | 0.71 | 1.12 | 1.66 | 2.23 | 2.76 | 3.08 | 3.07 | 2.72 | 2.20 | 1.64 | 1.14 | 0.86 |
| 09 TER | 0.92 | 1.28 | 1.79 | 2.34 | 2.87 | 3.25 | 3.34 | 3.10 | 2.61 | 2.01 | 1.41 | 0.95 | 0.76 | 0.90 | 1.27 | 1.74 | 2.24 | 2.69 | 2.93 | 2.87 | 2.54 | 2.09 | 1.61 | 1.21 |
| 10 QUA | 1.01 | 1.11 | 1.45 | 1.90 | 2.37 | 2.82 | 3.12 | 3.16 | 2.92 | 2.48 | 1.96 | 1.45 | 1.07 | 0.94 | 1.08 | 1.40 | 1.80 | 2.22 | 2.59 | 2.77 | 2.70 | 2.42 | 2.03 | 1.63 |
| 11 QUI | 1.31 | 1.17 | 1.27 | 1.57 | 1.94 | 2.34 | 2.72 | 2.97 | 2.99 | 2.77 | 2.40 | 1.96 | 1.52 | 1.20 | 1.10 | 1.22 | 1.49 | 1.82 | 2.19 | 2.50 | 2.65 | 2.59 | 2.36 | 2.04 |
| 12 SEX | 1.69 | 1.42 | 1.29 | 1.38 | 1.62 | 1.93 | 2.28 | 2.61 | 2.83 | 2.85 | 2.68 | 2.36 | 1.98 | 1.59 | 1.31 | 1.21 | 1.30 | 1.52 | 1.82 | 2.16 | 2.45 | 2.60 | 2.56 | 2.36 |
| 13 SAB | 2.08 | 1.76 | 1.49 | 1.36 | 1.41 | 1.60 | 1.88 | 2.21 | 2.52 | 2.74 | 2.78 | 2.63 | 2.35 | 1.99 | 1.63 | 1.36 | 1.25 | 1.33 | 1.54 | 1.83 | 2.17 | 2.46 | 2.62 | 2.59 |
| 14 DOM | 2.41 | 2.12 | 1.79 | 1.51 | 1.36 | 1.38 | 1.56 | 1.83 | 2.16 | 2.48 | 2.71 | 2.76 | 2.62 | 2.34 | 1.98 | 1.61 | 1.34 | 1.24 | 1.32 | 1.55 | 1.87 | 2.23 | 2.54 | 2.70 |
| 15 SEG | 2.67 | 2.45 | 2.13 | 1.77 | 1.46 | 1.29 | 1.31 | 1.51 | 1.81 | 2.16 | 2.50 | 2.74 | 2.78 | 2.61 | 2.30 | 1.92 | 1.54 | 1.26 | 1.18 | 1.31 | 1.60 | 1.96 | 2.35 | 2.67 |
| 16 TER | 2.82 | 2.74 | 2.46 | 2.09 | 1.69 | 1.35 | 1.19 | 1.25 | 1.49 | 1.84 | 2.23 | 2.58 | 2.80 | 2.80 | 2.58 | 2.22 | 1.80 | 1.41 | 1.16 | 1.14 | 1.34 | 1.69 | 2.11 | 2.53 |
| 17 QUA | 2.84 | 2.93 | 2.76 | 2.42 | 1.98 | 1.55 | 1.21 | 1.08 | 1.21 | 1.52 | 1.92 | 2.34 | 2.70 | 2.88 | 2.80 | 2.50 | 2.08 | 1.64 | 1.25 | 1.05 | 1.12 | 1.42 | 1.84 | 2.30 |
| 18 QUI | 2.72 | 2.99 | 3.00 | 2.74 | 2.31 | 1.82 | 1.37 | 1.06 | 1.01 | 1.23 | 1.61 | 2.05 | 2.49 | 2.82 | 2.93 | 2.75 | 2.37 | 1.91 | 1.45 | 1.10 | 0.99 | 1.17 | 1.56 | 2.04 |
| 19 SEX | 2.52 | 2.92 | 3.11 | 3.00 | 2.64 | 2.14 | 1.63 | 1.19 | 0.94 | 0.99 | 1.31 | 1.75 | 2.22 | 2.65 | 2.92 | 2.93 | 2.65 | 2.20 | 1.70 | 1.27 | 0.99 | 0.99 | 1.28 | 1.76 |
| 20 SAB | 2.27 | 2.74 | 3.08 | 3.17 | 2.94 | 2.48 | 1.93 | 1.42 | 1.02 | 0.87 | 1.04 | 1.44 | 1.93 | 2.40 | 2.79 | 2.98 | 2.87 | 2.49 | 1.99 | 1.50 | 1.10 | 0.92 | 1.05 | 1.46 |
| 21 DOM | 1.98 | 2.49 | 2.93 | 3.19 | 3.15 | 2.81 | 2.27 | 1.71 | 1.22 | 0.90 | 0.87 | 1.15 | 1.62 | 2.12 | 2.57 | 2.90 | 2.98 | 2.75 | 2.29 | 1.77 | 1.31 | 0.99 | 0.93 | 1.19 |
| 22 SEG | 1.68 | 2.21 | 2.70 | 3.08 | 3.23 | 3.06 | 2.61 | 2.04 | 1.50 | 1.06 | 0.84 | 0.94 | 1.32 | 1.82 | 2.30 | 2.71 | 2.96 | 2.91 | 2.57 | 2.07 | 1.57 | 1.16 | 0.94 | 1.01 |
| 23 TER | 1.38 | 1.90 | 2.42 | 2.86 | 3.16 | 3.19 | 2.90 | 2.39 | 1.82 | 1.31 | 0.95 | 0.86 | 1.08 | 1.51 | 2.01 | 2.46 | 2.81 | 2.95 | 2.79 | 2.38 | 1.88 | 1.41 | 1.08 | 0.97 |
| 24 QUA | 1.16 | 1.59 | 2.11 | 2.59 | 2.97 | 3.17 | 3.08 | 2.72 | 2.18 | 1.63 | 1.18 | 0.92 | 0.94 | 1.24 | 1.69 | 2.16 | 2.57 | 2.84 | 2.88 | 2.65 | 2.21 | 1.73 | 1.32 | 1.07 |
| 25 QUI | 1.06 | 1.32 | 1.77 | 2.26 | 2.69 | 3.00 | 3.11 | 2.94 | 2.53 | 2.00 | 1.49 | 1.11 | 0.95 | 1.05 | 1.39 | 1.83 | 2.26 | 2.62 | 2.83 | 2.80 | 2.52 | 2.09 | 1.64 | 1.29 |
| 26 SEX | 1.11 | 1.17 | 1.46 | 1.89 | 2.34 | 2.73 | 2.98 | 3.03 | 2.81 | 2.39 | 1.89 | 1.43 | 1.11 | 1.01 | 1.15 | 1.49 | 1.91 | 2.31 | 2.63 | 2.79 | 2.72 | 2.45 | 2.04 | 1.63 |
| 27 SAB | 1.31 | 1.18 | 1.26 | 1.54 | 1.94 | 2.35 | 2.71 | 2.93 | 2.94 | 2.72 | 2.32 | 1.85 | 1.42 | 1.14 | 1.07 | 1.21 | 1.53 | 1.92 | 2.31 | 2.62 | 2.76 | 2.70 | 2.44 | 2.06 |
| 28 DOM | 1.66 | 1.36 | 1.23 | 1.30 | 1.54 | 1.91 | 2.31 | 2.66 | 2.87 | 2.89 | 2.70 | 2.32 | 1.86 | 1.45 | 1.18 | 1.10 | 1.22 | 1.50 | 1.89 | 2.29 | 2.61 | 2.77 | 2.74 | 2.51 |
| 29 SEG | 2.13 | 1.72 | 1.40 | 1.24 | 1.26 | 1.46 | 1.82 | 2.23 | 2.60 | 2.84 | 2.90 | 2.74 | 2.38 | 1.92 | 1.49 | 1.19 | 1.07 | 1.16 | 1.44 | 1.85 | 2.28 | 2.64 | 2.84 | 2.84 |
| 30 TER | 2.62 | 2.22 | 1.77 | 1.40 | 1.18 | 1.14 | 1.33 | 1.70 | 2.14 | 2.56 | 2.85 | 2.96 | 2.83 | 2.46 | 1.97 | 1.51 | 1.17 | 1.00 | 1.07 | 1.37 | 1.82 | 2.30 | 2.71 | 2.96 |
| 31 QUA | 2.99 | 2.75 | 2.30 | 1.80 | 1.36 | 1.07 | 0.98 | 1.17 | 1.57 | 2.07 | 2.54 | 2.90 | 3.06 | 2.94 | 2.54 | 2.01 | 1.50 | 1.11 | 0.90 | 0.97 | 1.31 | 1.82 | 2.36 | 2.82 |

201.10

SINES



PORTO DE SINES

NOTAS

1. ANÁLISE HARMÓNICA:

— Efetuada a partir de um ano de observações maregráficas, de 1 de janeiro de 2011 a 31 de dezembro de 2011.

2. LOCALIZAÇÃO DO MARÉGRAFO:

— No molhe W no cais n.º 3:
Latitude 37° 56,89' N; Longitude 8° 53,27' W – WGS84.

3. ALTURAS DE MARÉ:

— Referidas ao nível do zero hidrográfico.
— Nível médio: 2,00 m.

4. ZERO HIDROGRÁFICO:

— 2,00 m abaixo do nível médio adotado (Cascais, 1938).
— 6,147 m abaixo da marca de contacto situada na boca do poço que se encontra do lado nascente.
— 35,911 m abaixo da marca de nivelamento NP210, existente na soleira da porta principal da Igreja Matriz de Sines.

Porto de Sines

Latitude 37° 56.89' N Longitude 8° 53.27' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JANEIRO | | | | FEVEREIRO | | | | MARÇO | | | | | | | | | | | | | | |
|-----------|-------|--------|-----------|-----------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-------|-----------|-------|-------|-------|-------|-------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | | | | | | |
| 01 | 03:05 | 3.3 | 17 | 04:30 | 3.3 | 01 | 04:12 | 3.6 | 17 | 05:04 | 3.1 | 01 | 03:11 | 3.7 | 17 | 04:01 | 3.2 | | | | | |
| | 09:21 | 0.7 | | 10:43 | 0.8 | | 10:25 | 0.4 | | 11:09 | 0.9 | | 09:23 | 0.3 | | 10:04 | 0.8 | | | | | |
| | 15:31 | 3.1 | | SEX | 16:51 | | 2.9 | SÁB | | 16:38 | 3.3 | | SEG | 17:19 | | 2.9 | SÁB | 15:35 | 3.5 | SEG | 16:14 | 3.1 |
| | 21:28 | 0.8 | | 22:43 | 0.9 | | 22:36 | 0.6 | | 23:17 | 1.0 | | 21:35 | 0.4 | | 22:14 | 0.8 | | | | | |
| 02 | 03:45 | 3.3 | 18 | 05:06 | 3.2 | 02 | 04:55 | 3.5 | 18 | 05:35 | 2.9 | 02 | 03:52 | 3.7 | 18 | 04:30 | 3.1 | | | | | |
| | 10:01 | 0.6 | | 11:18 | 0.9 | | 11:07 | 0.5 | | 11:40 | 1.1 | | 10:02 | 0.3 | | 10:32 | 0.9 | | | | | |
| | 16:13 | 3.1 | | SÁB | 17:26 | | 2.8 | DOM | | 17:21 | 3.2 | | TER | 17:53 | | 2.8 | DOM | 16:15 | 3.5 | TER | 16:43 | 3.0 |
| | 22:09 | 0.8 | | 23:18 | 1.0 | | 23:19 | 0.7 | | 23:53 | 1.2 | | 22:16 | 0.4 | | 22:45 | 0.9 | | | | | |
| 03 | 04:28 | 3.3 | 19 | 05:42 | 3.0 | 03 | 05:40 | 3.4 | 19 | 06:11 | 2.7 | 03 | 04:34 | 3.6 | 19 | 05:00 | 2.9 | | | | | |
| | 10:43 | 0.7 | | 11:53 | 1.0 | | 11:51 | 0.7 | | 12:15 | 1.3 | | 10:42 | 0.4 | | 11:00 | 1.0 | | | | | |
| | 16:56 | 3.0 | | DOM | 18:02 | | 2.7 | SEG | | 18:07 | 3.1 | | QUA | 18:32 | | 2.6 | SEG | 16:57 | 3.4 | QUA | 17:15 | 2.9 |
| | 22:52 | 0.8 | | 23:56 | 1.1 | | 23:56 | 1.1 | | 23:56 | 1.1 | | 22:59 | 0.5 | | 23:20 | 1.1 | | | | | |
| 04 | 05:13 | 3.3 | 20 | 06:19 | 2.9 | 04 | 00:07 | 0.8 | 20 | 00:37 | 1.3 | 04 | 05:19 | 3.4 | 20 | 05:34 | 2.7 | | | | | |
| | 11:28 | 0.7 | | 12:31 | 1.2 | | 06:30 | 3.2 | | 06:55 | 2.5 | | 11:24 | 0.6 | | 11:33 | 1.2 | | | | | |
| | 17:43 | 3.0 | | SEG | 18:43 | | 2.6 | TER | | 12:40 | 0.9 | | QUI | 13:01 | | 1.4 | TER | 17:42 | 3.2 | QUI | 17:52 | 2.7 |
| | 23:39 | 0.9 | | 23:38 | 0.9 | | 18:59 | 2.9 | | 19:27 | 2.5 | | 23:46 | 0.8 | | 23:46 | 0.8 | | | | | |
| 05 | 06:01 | 3.2 | 21 | 00:39 | 1.3 | 05 | 01:03 | 1.0 | 21 | 01:40 | 1.5 | 05 | 06:08 | 3.1 | 21 | 00:01 | 1.3 | | | | | |
| | 12:17 | 0.8 | | 07:02 | 2.7 | | 07:27 | 2.9 | | 08:01 | 2.3 | | 12:11 | 0.9 | | 06:16 | 2.5 | | | | | |
| | 18:34 | 2.9 | | TER | 13:16 | | 1.3 | QUA | | 13:38 | 1.1 | | SEX | 14:13 | | 1.6 | QUA | 18:33 | 3.0 | SEX | 12:13 | 1.4 |
| | | | | ((| 19:33 | | 2.5 |) | | 20:03 | 2.7 | | 20:49 | 2.4 | | | | | 18:42 | 2.6 | | |
| 06 | 00:32 | 1.0 | 22 | 01:34 | 1.4 | 06 | 02:16 | 1.2 | 22 | 03:24 | 1.6 | 06 | 00:43 | 1.0 | 22 | 00:59 | 1.4 | | | | | |
| | 06:55 | 3.1 | | 07:57 | 2.5 | | 08:40 | 2.7 | | 09:43 | 2.3 | | 07:06 | 2.8 | | 07:18 | 2.3 | | | | | |
| | 13:12 | 0.9 | | QUA | 14:15 | | 1.4 | QUI | | 14:54 | 1.3 | | SÁB | 16:03 | | 1.6 | QUI | 13:09 | 1.2 | SÁB | 13:19 | 1.6 |
| | 19:32 | 2.8 | | 20:38 | 2.4 | | 21:23 | 2.7 | | 22:26 | 2.4 | | 19:38 | 2.7 | |) | 19:59 | 2.4 | ((| 19:59 | 2.4 | |
| 07 | 01:32 | 1.1 | 23 | 02:48 | 1.5 | 07 | 03:49 | 1.3 | 23 | 05:03 | 1.5 | 07 | 02:02 | 1.2 | 23 | 02:39 | 1.5 | | | | | |
| | 07:56 | 2.9 | | 09:10 | 2.4 | | 10:08 | 2.6 | | 11:16 | 2.4 | | 08:26 | 2.5 | | 09:03 | 2.3 | | | | | |
| | 14:15 | 1.0 | | QUI | 15:31 | | 1.5 | SEX | | 16:25 | 1.3 | | DOM | 17:25 | | 1.5 | SEX | 14:34 | 1.4 | DOM | 15:17 | 1.6 |
| | 20:39 | 2.7 | | 21:56 | 2.4 | | 22:49 | 2.7 | | 23:37 | 2.6 | | 21:07 | 2.6 | | 21:42 | 2.5 | | | | | |
| 08 | 02:44 | 1.2 | 24 | 04:17 | 1.5 | 08 | 05:21 | 1.2 | 24 | 06:06 | 1.3 | 08 | 03:51 | 1.3 | 24 | 04:26 | 1.4 | | | | | |
| | 09:06 | 2.8 | | 10:32 | 2.4 | | 11:33 | 2.6 | | 12:16 | 2.6 | | 10:08 | 2.5 | | 10:44 | 2.4 | | | | | |
| | 15:26 | 1.1 | | SEX | 16:48 | | 1.5 | SÁB | | 17:43 | 1.3 | | SEG | 18:19 | | 1.2 | SÁB | 16:21 | 1.5 | SEG | 16:50 | 1.5 |
| | 21:50 | 2.8 | | 23:08 | 2.5 | | | | | | | | 22:43 | 2.7 | | 22:43 | 2.7 | 23:01 | 2.6 | | | |
| 09 | 04:02 | 1.2 | 25 | 05:32 | 1.4 | 09 | 00:00 | 2.9 | 25 | 00:29 | 2.9 | 09 | 05:24 | 1.2 | 25 | 05:31 | 1.2 | | | | | |
| | 10:20 | 2.8 | | 11:42 | 2.5 | | 06:29 | 1.0 | | 06:51 | 1.0 | | 11:35 | 2.5 | | 11:46 | 2.6 | | | | | |
| | 16:38 | 1.1 | | SÁB | 17:51 | | 1.4 | DOM | | 12:38 | 2.8 | | TER | 13:01 | | 2.8 | DOM | 17:40 | 1.3 | TER | 17:48 | 1.2 |
| | 23:00 | 2.8 | | | | | 18:41 | 1.1 | | 19:01 | 1.0 | | 23:55 | 2.8 | | 23:56 | 2.9 | | | | | |
| 10 | 05:17 | 1.1 | 26 | 00:05 | 2.7 | 10 | 00:56 | 3.0 | 26 | 01:11 | 3.1 | 10 | 06:25 | 1.0 | 26 | 06:18 | 0.9 | | | | | |
| | 11:31 | 2.8 | | 06:28 | 1.2 | | 07:21 | 0.9 | | 07:30 | 0.7 | | 12:33 | 2.7 | | 12:31 | 2.9 | | | | | |
| | 17:44 | 1.1 | | DOM | 12:36 | | 2.6 | SEG | | 13:27 | 2.9 | | QUA | 13:40 | | 3.1 | SEG | 18:33 | 1.1 | QUA | 18:32 | 1.0 |
| | | | | 18:40 | 1.2 | | 19:27 | 0.9 | | 19:40 | 0.8 | | | | | | | | | | | |
| 11 | 00:03 | 3.0 | 27 | 00:51 | 2.9 | 11 | 01:42 | 3.2 | 27 | 01:51 | 3.4 | 11 | 00:46 | 3.0 | 27 | 00:42 | 3.2 | | | | | |
| | 06:23 | 1.0 | | 07:12 | 1.0 | | 08:02 | 0.7 | | 08:07 | 0.5 | | 07:09 | 0.9 | | 06:59 | 0.7 | | | | | |
| | 12:33 | 2.9 | | SEG | 13:20 | | 2.8 | TER | | 14:08 | 3.0 | | QUI | 14:18 | | 3.3 | TER | 13:15 | 2.9 | QUI | 13:11 | 3.2 |
| | 18:41 | 1.0 | | 19:21 | 1.0 | | 20:05 | 0.8 | | 20:18 | 0.6 | | 19:13 | 1.0 | | 19:12 | 0.7 | | | | | |
| 12 | 00:58 | 3.1 | 28 | 01:33 | 3.1 | 12 | 02:22 | 3.3 | 28 | 02:31 | 3.6 | 12 | 01:27 | 3.2 | 28 | 01:24 | 3.4 | | | | | |
| | 07:19 | 0.8 | | 07:52 | 0.8 | | 08:38 | 0.6 | | 08:45 | 0.3 | | 07:44 | 0.8 | | 07:38 | 0.4 | | | | | |
| | 13:28 | 3.0 | | TER | 14:00 | | 3.0 | QUA | | 14:45 | 3.1 | | SEX | 14:56 | | 3.4 | QUA | 13:50 | 3.0 | SEX | 13:50 | 3.4 |
| | 19:30 | 0.9 | | 20:00 | 0.9 | | 20:40 | 0.7 | | 20:56 | 0.4 | | 19:47 | 0.8 | | 19:52 | 0.5 | | | | | |
| 13 | 01:47 | 3.3 | 29 | 02:12 | 3.3 | 13 | 02:58 | 3.4 | 29 | 02:31 | 3.6 | 13 | 02:02 | 3.3 | 29 | 02:05 | 3.6 | | | | | |
| | 08:07 | 0.7 | | 08:29 | 0.6 | | 09:11 | 0.6 | | 09:15 | 0.7 | | 08:15 | 0.7 | | 08:17 | 0.3 | | | | | |
| | 14:16 | 3.1 | | QUA | 14:39 | | 3.1 | QUI | | 15:18 | 3.1 | | QUI | 14:21 | | 3.1 | SÁB | 14:30 | 3.5 | | | |
| | 20:14 | 0.8 | | 20:38 | 0.7 | | 21:12 | 0.7 | | | | | 20:17 | 0.7 | | 20:32 | 0.3 | | | | | |
| 14 | 02:32 | 3.4 | 30 | 02:51 | 3.4 | 14 | 03:31 | 3.4 | 30 | 02:34 | 3.3 | 14 | 02:34 | 3.3 | 30 | 02:47 | 3.7 | | | | | |
| | 08:51 | 0.6 | | 09:07 | 0.5 | | 09:42 | 0.6 | | 09:42 | 0.6 | | 08:43 | 0.6 | | 08:56 | 0.2 | | | | | |
| | 14:59 | 3.1 | | QUI | 15:18 | | 3.2 | SEX | | 15:49 | 3.1 | | SEX | 14:50 | | 3.2 | DOM | 15:10 | 3.6 | | | |
| | 20:55 | 0.7 | | 21:16 | 0.6 | | 21:43 | 0.7 | | | | | 20:47 | 0.7 | | 21:13 | 0.3 | | | | | |
| 15 | 03:14 | 3.4 | 31 | 03:31 | 3.5 | 15 | 04:03 | 3.3 | 31 | 03:04 | 3.3 | 15 | 03:04 | 3.3 | 31 | 03:30 | 3.7 | | | | | |
| | 09:30 | 0.6 | | 09:46 | 0.4 | | 10:11 | 0.7 | | 10:11 | 0.7 | | 09:10 | 0.6 | | 09:37 | 0.3 | | | | | |
| | 15:39 | 3.1 | | SEX | 15:57 | | 3.3 | SÁB | | 16:19 | 3.1 | | SÁB | 15:19 | | 3.2 | SEG | 15:51 | 3.6 | | | |
| | 21:32 | 0.7 | | 21:55 | 0.6 | | 22:14 | 0.8 | | | | | 21:16 | 0.7 | | 21:56 | 0.3 | | | | | |
| 16 | 03:53 | 3.4 | 16 | 04:33 | 3.2 | 16 | 04:33 | 3.2 | 16 | 03:33 | 3.3 | 16 | 03:33 | 3.3 | 16 | 03:30 | 3.7 | | | | | |
| | 10:08 | 0.7 | | 10:40 | 0.8 | | 10:40 | 0.8 | | 09:37 | 0.7 | | 09:37 | 0.7 | | 09:37 | 0.7 | | | | | |
| | 16:16 | 3.0 | | 16:49 | 3.0 | | 16:49 | 3.0 | | 15:46 | 3.2 | | 15:46 | 3.2 | | 15:51 | 3.6 | | | | | |
| | 22:08 | 0.8 | | 22:44 | 0.9 | | 22:44 | 0.9 | | 21:45 | 0.7 | | 21:45 | 0.7 | | 21:56 | 0.3 | | | | | |

Porto de Sines

Latitude 37° 56.89' N Longitude 8° 53.27' W

Horas do Fuso: 0 (TU)

Ano: 2025

| ABRIL | | | MAIO | | | | JUNHO | | | | | | | | | | | | |
|-----------|-----------|--------|-----------|-----------|------|-----------|-----------|--------|-----------|-----------|------|-----------|-----------|-----|-----------|-----------|-----|-----------|-----|
| | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | | |
| 01 | 04:14 | 3.6 | 17 | 04:35 | 2.8 | 01 | 04:47 | 3.2 | 17 | 05:00 | 2.7 | 01 | 00:12 | 0.9 | 17 | 00:15 | 1.0 | | |
| | 10:18 | 0.4 | | 10:31 | 1.1 | | 10:44 | 0.8 | | 10:54 | 1.2 | | 10:54 | 1.2 | | 06:24 | 2.7 | 06:31 | 2.7 |
| | TER 16:34 | 3.4 | | QUI 16:49 | 2.9 | | QUI 17:06 | 3.3 | | SÁB 17:17 | 2.9 | | DOM 12:14 | 1.2 | | TER 12:26 | 1.2 | TER 12:26 | 1.2 |
| | 22:42 | 0.5 | | 22:59 | 1.1 | | 23:24 | 0.8 | | 23:35 | 1.1 | | 18:43 | 3.0 | | 18:49 | 2.9 | 18:49 | 2.9 |
| 02 | 05:01 | 3.3 | 18 | 05:12 | 2.7 | 02 | 05:41 | 2.9 | 18 | 05:49 | 2.6 | 02 | 01:14 | 1.1 | 18 | 01:11 | 1.0 | | |
| | 11:01 | 0.7 | | 11:06 | 1.2 | | 11:35 | 1.1 | | 11:42 | 1.3 | | 07:25 | 2.6 | | 07:30 | 2.7 | 07:30 | 2.7 |
| | QUA 17:21 | 3.2 | | SEX 17:29 | 2.8 | | SEX 18:01 | 3.0 | | DOM 18:08 | 2.8 | | SEG 13:16 | 1.3 | | QUA 13:28 | 1.2 | QUA 13:28 | 1.2 |
| | 23:32 | 0.7 | | 23:43 | 1.2 | | 23:43 | 1.2 | | 23:43 | 1.2 | | 19:45 | 2.8 | | (19:49 | 2.9 | (19:49 | 2.9 |
| 03 | 05:52 | 3.0 | 19 | 05:57 | 2.5 | 03 | 00:28 | 1.0 | 19 | 00:32 | 1.2 | 03 | 02:18 | 1.2 | 19 | 02:12 | 1.0 | | |
| | 11:50 | 1.0 | | 11:51 | 1.4 | | 06:44 | 2.7 | | 06:49 | 2.5 | | 08:31 | 2.5 | | 08:34 | 2.7 | 08:34 | 2.7 |
| | QUI 18:14 | 3.0 | | SÁB 18:20 | 2.6 | | SÁB 12:36 | 1.3 | | SEG 12:44 | 1.4 | | TER 14:24 | 1.4 | | QUI 14:35 | 1.2 | QUI 14:35 | 1.2 |
| | | | | | | | 19:07 | 2.9 | | 19:11 | 2.7 | |) 20:50 | 2.7 | | 20:54 | 2.9 | 20:54 | 2.9 |
| 04 | 00:34 | 1.0 | 20 | 00:42 | 1.4 | 04 | 01:46 | 1.2 | 20 | 01:41 | 1.2 | 04 | 03:21 | 1.2 | 20 | 03:17 | 1.0 | | |
| | 06:54 | 2.7 | | 07:01 | 2.4 | | 08:01 | 2.5 | | 08:02 | 2.5 | | 09:35 | 2.5 | | 09:40 | 2.8 | 09:40 | 2.8 |
| | SEX 12:50 | 1.3 | | DOM 12:57 | 1.5 | | DOM 13:56 | 1.4 | | TER 14:01 | 1.4 | | QUA 15:31 | 1.4 | | SEX 15:44 | 1.1 | SEX 15:44 | 1.1 |
| | 19:22 | 2.8 | | 19:31 | 2.6 | |) 20:26 | 2.7 | | (20:23 | 2.7 | | 21:53 | 2.7 | | 22:01 | 2.9 | 22:01 | 2.9 |
| 05 | 01:59 | 1.2 | 21 | 02:09 | 1.4 | 05 | 03:10 | 1.2 | 21 | 02:54 | 1.2 | 05 | 04:18 | 1.2 | 21 | 04:20 | 1.0 | | |
| | 08:19 | 2.5 | | 08:32 | 2.4 | | 09:25 | 2.4 | | 09:16 | 2.6 | | 10:33 | 2.6 | | 10:42 | 2.9 | 10:42 | 2.9 |
| | SÁB 14:21 | 1.5 | | SEG 14:37 | 1.5 | | SEG 15:22 | 1.4 | | QUA 15:18 | 1.3 | | QUI 16:32 | 1.3 | | SÁB 16:50 | 1.0 | SÁB 16:50 | 1.0 |
| |) 20:52 | 2.7 | | (21:00 | 2.6 | | 21:45 | 2.7 | | 21:34 | 2.8 | | 22:49 | 2.7 | | 23:04 | 3.0 | 23:04 | 3.0 |
| 06 | 03:43 | 1.3 | 22 | 03:40 | 1.3 | 06 | 04:22 | 1.2 | 22 | 04:00 | 1.0 | 06 | 05:07 | 1.2 | 22 | 05:19 | 0.9 | | |
| | 10:00 | 2.4 | | 10:01 | 2.5 | | 10:35 | 2.5 | | 10:21 | 2.8 | | 11:22 | 2.7 | | 11:40 | 3.0 | 11:40 | 3.0 |
| | DOM 16:04 | 1.5 | | TER 16:05 | 1.4 | | TER 16:32 | 1.4 | | QUI 16:23 | 1.2 | | SEX 17:24 | 1.3 | | DOM 17:51 | 0.9 | DOM 17:51 | 0.9 |
| | 22:24 | 2.7 | | 22:17 | 2.7 | | 22:49 | 2.8 | | 22:36 | 3.0 | | 23:38 | 2.7 | | 23:38 | 2.7 | 23:38 | 2.7 |
| 07 | 05:05 | 1.2 | 23 | 04:47 | 1.1 | 07 | 05:17 | 1.1 | 23 | 04:57 | 0.9 | 07 | 05:51 | 1.1 | 23 | 00:05 | 3.1 | | |
| | 11:17 | 2.5 | | 11:05 | 2.7 | | 11:27 | 2.6 | | 11:16 | 3.0 | | 12:05 | 2.8 | | 06:15 | 0.8 | 06:15 | 0.8 |
| | SEG 17:17 | 1.3 | | QUA 17:07 | 1.2 | | QUA 17:25 | 1.2 | | SEX 17:20 | 1.0 | | SÁB 18:10 | 1.2 | | SEG 12:34 | 3.2 | SEG 12:34 | 3.2 |
| | 23:31 | 2.8 | | 23:17 | 2.9 | | 23:40 | 2.9 | | 23:32 | 3.1 | | 23:32 | 3.1 | | 18:49 | 0.7 | 18:49 | 0.7 |
| 08 | 06:00 | 1.1 | 24 | 05:39 | 0.9 | 08 | 05:59 | 1.1 | 24 | 05:48 | 0.7 | 08 | 00:22 | 2.8 | 24 | 01:01 | 3.1 | | |
| | 12:09 | 2.7 | | 11:54 | 2.9 | | 12:09 | 2.8 | | 12:06 | 3.2 | | 06:30 | 1.1 | | 07:08 | 0.7 | 07:08 | 0.7 |
| | TER 18:07 | 1.2 | | QUI 17:56 | 0.9 | | QUI 18:08 | 1.1 | | SÁB 18:12 | 0.8 | | DOM 12:44 | 2.9 | | TER 13:26 | 3.3 | TER 13:26 | 3.3 |
| | | | | | | | | | | | | | 18:52 | 1.1 | | 19:43 | 0.6 | 19:43 | 0.6 |
| 09 | 00:20 | 3.0 | 25 | 00:07 | 3.2 | 09 | 00:21 | 2.9 | 25 | 00:24 | 3.3 | 09 | 01:02 | 2.8 | 25 | 01:55 | 3.2 | | |
| | 06:40 | 0.9 | | 06:24 | 0.6 | | 06:34 | 1.0 | | 06:37 | 0.6 | | 07:06 | 1.0 | | 07:58 | 0.7 | 07:58 | 0.7 |
| | QUA 12:48 | 2.8 | | SEX 12:38 | 3.2 | | SEX 12:44 | 2.9 | | DOM 12:53 | 3.3 | | SEG 13:20 | 3.0 | | QUA 14:16 | 3.4 | QUA 14:16 | 3.4 |
| | 18:45 | 1.0 | | 18:41 | 0.7 | | 18:45 | 1.0 | | 19:02 | 0.6 | | 19:31 | 1.0 | | ● 20:35 | 0.6 | ● 20:35 | 0.6 |
| 10 | 00:59 | 3.1 | 26 | 00:53 | 3.4 | 10 | 00:58 | 3.0 | 26 | 01:15 | 3.4 | 10 | 01:40 | 2.8 | 26 | 02:47 | 3.2 | | |
| | 07:13 | 0.8 | | 07:06 | 0.4 | | 07:06 | 0.9 | | 07:24 | 0.5 | | 07:41 | 1.0 | | 08:45 | 0.7 | 08:45 | 0.7 |
| | QUI 13:20 | 3.0 | | SÁB 13:21 | 3.4 | | SÁB 13:17 | 3.0 | | SEG 13:40 | 3.5 | | TER 13:56 | 3.0 | | QUI 15:05 | 3.5 | QUI 15:05 | 3.5 |
| | 19:19 | 0.9 | | 19:25 | 0.5 | | 19:20 | 0.9 | | 19:51 | 0.5 | | 20:08 | 0.9 | | 21:25 | 0.5 | 21:25 | 0.5 |
| 11 | 01:33 | 3.2 | 27 | 01:38 | 3.6 | 11 | 01:32 | 3.0 | 27 | 02:05 | 3.4 | 11 | 02:17 | 2.9 | 27 | 03:36 | 3.1 | | |
| | 07:43 | 0.8 | | 07:48 | 0.3 | | 07:37 | 0.9 | | 08:10 | 0.5 | | 08:16 | 1.0 | | 09:31 | 0.7 | 09:31 | 0.7 |
| | SEX 13:50 | 3.1 | | DOM 14:03 | 3.5 | | DOM 13:48 | 3.1 | | TER 14:27 | 3.5 | | QUA 14:31 | 3.1 | | SEX 15:53 | 3.4 | SEX 15:53 | 3.4 |
| | 19:49 | 0.8 | | ● 20:09 | 0.4 | | 19:53 | 0.9 | | ● 20:41 | 0.4 | | ○ 20:45 | 0.9 | | 22:12 | 0.6 | 22:12 | 0.6 |
| 12 | 02:04 | 3.2 | 28 | 02:23 | 3.6 | 12 | 02:04 | 3.0 | 28 | 02:55 | 3.4 | 12 | 02:53 | 2.9 | 28 | 04:23 | 3.1 | | |
| | 08:10 | 0.7 | | 08:31 | 0.3 | | 08:07 | 0.9 | | 08:56 | 0.6 | | 08:51 | 1.0 | | 10:15 | 0.8 | 10:15 | 0.8 |
| | SÁB 14:19 | 3.1 | | SEG 14:46 | 3.6 | | SEG 14:19 | 3.1 | | QUA 15:15 | 3.5 | | QUI 15:07 | 3.1 | | SÁB 16:39 | 3.4 | SÁB 16:39 | 3.4 |
| | 20:19 | 0.7 | | 20:54 | 0.3 | | ○ 20:26 | 0.8 | | 21:31 | 0.5 | | 21:22 | 0.9 | | 22:58 | 0.7 | 22:58 | 0.7 |
| 13 | 02:34 | 3.2 | 29 | 03:10 | 3.6 | 13 | 02:37 | 3.0 | 29 | 03:45 | 3.2 | 13 | 03:31 | 2.9 | 29 | 05:08 | 2.9 | | |
| | 08:38 | 0.7 | | 09:13 | 0.4 | | 08:37 | 0.9 | | 09:43 | 0.7 | | 09:27 | 1.0 | | 10:59 | 0.9 | 10:59 | 0.9 |
| | DOM 14:48 | 3.2 | | TER 15:30 | 3.6 | | TER 14:50 | 3.1 | | QUI 16:04 | 3.4 | | SEX 15:44 | 3.1 | | DOM 17:24 | 3.2 | DOM 17:24 | 3.2 |
| | ○ 20:49 | 0.7 | | 21:40 | 0.4 | | 20:59 | 0.8 | | 22:22 | 0.6 | | 22:00 | 0.9 | | 23:44 | 0.8 | 23:44 | 0.8 |
| 14 | 03:03 | 3.2 | 30 | 03:57 | 3.4 | 14 | 03:09 | 3.0 | 30 | 04:36 | 3.1 | 14 | 04:10 | 2.9 | 30 | 05:53 | 2.8 | | |
| | 09:05 | 0.8 | | 09:57 | 0.6 | | 09:07 | 0.9 | | 10:30 | 0.8 | | 10:05 | 1.0 | | 11:43 | 1.0 | 11:43 | 1.0 |
| | SEG 15:16 | 3.2 | | QUA 16:16 | 3.4 | | QUA 15:22 | 3.1 | | SEX 16:54 | 3.3 | | SÁB 16:24 | 3.1 | | SEG 18:09 | 3.1 | SEG 18:09 | 3.1 |
| | 21:19 | 0.8 | | 22:30 | 0.5 | | 21:33 | 0.9 | | 23:16 | 0.7 | | 22:41 | 0.9 | | | | | |
| 15 | 03:32 | 3.1 | 15 | 03:43 | 2.9 | 15 | 03:43 | 2.9 | 31 | 05:29 | 2.9 | 15 | 04:52 | 2.8 | 15 | 04:52 | 2.8 | | |
| | 09:32 | 0.8 | | 09:39 | 1.0 | | 09:39 | 1.0 | | 11:20 | 1.0 | | 10:46 | 1.0 | | 10:46 | 1.0 | 10:46 | 1.0 |
| | TER 15:45 | 3.1 | | QUI 15:56 | 3.1 | | QUI 15:56 | 3.1 | | SÁB 17:47 | 3.1 | | DOM 17:08 | 3.1 | | 17:08 | 3.1 | 17:08 | 3.1 |
| | 21:50 | 0.8 | | 22:09 | 0.9 | | 22:09 | 0.9 | | | | | 23:25 | 0.9 | | 23:25 | 0.9 | 23:25 | 0.9 |
| 16 | 04:03 | 3.0 | 16 | 04:19 | 2.8 | 16 | 04:19 | 2.8 | 16 | 05:39 | 2.8 | 16 | 05:39 | 2.8 | 16 | 05:39 | 2.8 | | |
| | 10:01 | 0.9 | | 10:14 | 1.1 | | 10:14 | 1.1 | | 11:33 | 1.1 | | 11:33 | 1.1 | | 11:33 | 1.1 | 11:33 | 1.1 |
| | QUA 16:15 | 3.0 | | SEX 16:34 | 3.0 | | SEX 16:34 | 3.0 | | SEG 17:55 | 3.0 | | 17:55 | 3.0 | | 17:55 | 3.0 | 17:55 | 3.0 |
| | 22:23 | 0.9 | | 22:49 | 1.0 | | 22:49 | 1.0 | | | | | | | | | | | |

Porto de Sines

Latitude 37° 56.89' N Longitude 8° 53.27' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JULHO | | | | AGOSTO | | | | SETEMBRO | | | | | | | | | |
|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 00:30 06:39 TER 12:29 18:57 | 1.0 2.7 1.2 2.9 | 17 | 00:39 06:58 QUI 12:57 19:19 | 0.9 2.9 1.1 3.0 | 01 | 01:01 07:17 SEX 13:16 19:39 | 1.3 2.5 1.4 2.6 | 17 | 02:10 08:40 DOM 15:03 21:23 | 1.2 2.7 1.3 2.6 | 01 | 01:59 08:36 SEG 15:12 21:28 | 1.6 2.4 1.6 2.3 | 17 | 05:04 11:21 QUA 17:54 | 1.3 2.9 1.0 |
| 02 | 01:18 07:29 QUA 13:21 19:48 | 1.2 2.6 1.3 2.7 | 18 | 01:35 07:57 SEX 14:00 20:22 | 1.0 2.8 1.1 2.9 | 02 | 01:54 08:18 SÁB 14:26 20:46 | 1.4 2.5 1.5 2.4 | 18 | 03:38 10:06 SEG 16:39 22:52 | 1.3 2.7 1.2 2.6 | 02 | 03:48 10:13 TER 16:51 23:03 | 1.6 2.4 1.5 2.3 | 18 | 00:02 06:02 QUI 12:17 18:42 | 2.7 1.1 3.1 0.9 |
| 03 | 02:10 08:25 QUI 14:22 20:46 | 1.3 2.5 1.4 2.6 | 19 | 02:39 09:05 SÁB 15:15 21:34 | 1.1 2.8 1.2 2.8 | 03 | 03:06 09:34 DOM 15:54 22:09 | 1.5 2.4 1.5 2.4 | 19 | 05:03 11:24 TER 17:55 | 1.3 2.9 1.1 | 03 | 05:10 11:24 QUA 17:53 | 1.5 2.6 1.3 | 19 | 00:49 06:47 SEX 13:01 19:20 | 2.9 1.0 3.2 0.7 |
| 04 | 03:09 09:28 SEX 15:30 21:50 | 1.3 2.5 1.4 2.5 | 20 | 03:51 10:17 DOM 16:34 22:49 | 1.1 2.8 1.1 2.8 | 04 | 04:27 10:50 SEG 17:15 23:25 | 1.5 2.5 1.4 2.4 | 20 | 00:04 06:09 QUA 12:26 18:52 | 2.7 1.1 3.0 0.9 | 04 | 00:02 06:03 QUI 12:14 18:37 | 2.5 1.3 2.8 1.1 | 20 | 01:26 07:23 SÁB 13:39 19:54 | 3.0 0.8 3.3 0.6 |
| 05 | 04:10 10:30 SÁB 16:39 22:53 | 1.4 2.5 1.4 2.5 | 21 | 05:03 11:26 SEG 17:47 23:59 | 1.1 2.9 1.0 2.8 | 05 | 05:34 11:51 TER 18:15 | 1.4 2.6 1.3 | 21 | 00:59 07:00 QUI 13:16 19:38 | 2.9 1.0 3.2 0.7 | 05 | 00:45 06:45 SEX 12:55 19:13 | 2.7 1.1 3.0 0.8 | 21 | 02:00 07:57 DOM 14:13 20:24 | 3.1 0.7 3.4 0.6 |
| 06 | 05:07 11:26 DOM 17:40 23:50 | 1.3 2.6 1.3 2.6 | 22 | 06:07 12:27 TER 18:50 | 1.0 3.1 0.9 | 06 | 00:22 06:25 QUA 12:39 19:01 | 2.5 1.3 2.8 1.1 | 22 | 01:44 07:42 SEX 13:59 20:17 | 3.0 0.8 3.4 0.6 | 06 | 01:22 07:21 SÁB 13:32 19:48 | 3.0 0.9 3.3 0.6 | 22 | 02:31 08:28 SEG 14:45 20:53 | 3.2 0.7 3.4 0.6 |
| 07 | 05:58 12:15 SEG 18:31 | 1.3 2.7 1.2 | 23 | 00:59 07:03 QUA 13:21 19:43 | 3.0 0.9 3.2 0.7 | 07 | 01:07 07:07 QUI 13:20 19:39 | 2.7 1.1 3.0 0.9 | 23 | 02:23 08:19 SÁB 14:38 20:52 | 3.1 0.7 3.5 0.6 | 07 | 01:57 07:57 DOM 14:09 20:23 | 3.2 0.7 3.5 0.4 | 23 | 03:01 08:58 TER 15:15 21:20 | 3.2 0.7 3.3 0.7 |
| 08 | 00:39 06:43 TER 12:58 19:16 | 2.6 1.2 2.9 1.1 | 24 | 01:52 07:51 QUI 14:10 20:30 | 3.0 0.8 3.4 0.6 | 08 | 01:46 07:45 SEX 13:58 20:15 | 2.9 0.9 3.2 0.8 | 24 | 02:59 08:54 DOM 15:13 21:25 | 3.2 0.7 3.5 0.6 | 08 | 02:33 08:33 SEG 14:47 20:59 | 3.3 0.5 3.6 0.3 | 24 | 03:30 09:28 QUA 15:45 21:48 | 3.2 0.7 3.2 0.8 |
| 09 | 01:23 07:24 QUA 13:38 19:56 | 2.7 1.1 3.0 1.0 | 25 | 02:39 08:35 SEX 14:55 21:13 | 3.1 0.7 3.5 0.6 | 09 | 02:23 08:21 SÁB 14:35 20:50 | 3.0 0.8 3.3 0.6 | 25 | 03:32 09:27 SEG 15:47 21:56 | 3.2 0.7 3.4 0.6 | 09 | 03:10 09:10 TER 15:26 21:36 | 3.4 0.4 3.6 0.3 | 25 | 03:59 09:58 QUI 16:15 22:16 | 3.1 0.8 3.1 0.9 |
| 10 | 02:02 08:01 QUI 14:16 20:33 | 2.8 1.0 3.1 0.9 | 26 | 03:21 09:16 SÁB 15:37 21:53 | 3.1 0.7 3.5 0.6 | 10 | 02:59 08:57 DOM 15:12 21:26 | 3.1 0.7 3.4 0.5 | 26 | 04:04 09:59 TER 16:19 22:26 | 3.1 0.7 3.3 0.8 | 10 | 03:49 09:50 QUA 16:07 22:15 | 3.5 0.4 3.6 0.4 | 26 | 04:29 10:30 SEX 16:45 22:45 | 3.0 1.0 2.9 1.1 |
| 11 | 02:40 08:38 SEX 14:53 21:10 | 2.9 0.9 3.2 0.8 | 27 | 04:01 09:54 DOM 16:16 22:30 | 3.1 0.7 3.4 0.7 | 11 | 03:36 09:34 SEG 15:51 22:03 | 3.2 0.6 3.5 0.5 | 27 | 04:35 10:30 QUA 16:51 22:56 | 3.0 0.8 3.1 0.9 | 11 | 04:29 10:32 QUI 16:51 22:56 | 3.4 0.5 3.4 0.6 | 27 | 05:01 11:05 SÁB 17:19 23:18 | 2.8 1.1 2.7 1.2 |
| 12 | 03:18 09:15 SÁB 15:31 21:47 | 3.0 0.9 3.3 0.7 | 28 | 04:38 10:30 SEG 16:54 23:06 | 3.0 0.8 3.3 0.8 | 12 | 04:15 10:13 TER 16:31 22:42 | 3.3 0.6 3.5 0.5 | 28 | 05:07 11:03 QUI 17:23 23:27 | 2.9 1.0 2.9 1.1 | 12 | 05:13 11:18 SEX 17:39 23:42 | 3.2 0.7 3.2 0.8 | 28 | 05:38 11:47 DOM 18:01 23:59 | 2.7 1.3 2.5 1.4 |
| 13 | 03:57 09:53 DOM 16:11 22:26 | 3.0 0.8 3.3 0.7 | 29 | 05:15 11:06 TER 17:30 23:42 | 2.9 0.9 3.1 0.9 | 13 | 04:55 10:54 QUA 17:14 23:23 | 3.2 0.7 3.4 0.6 | 29 | 05:40 11:39 SEX 17:58 | 2.8 1.2 2.7 | 13 | 06:03 12:12 SÁB 18:34 | 3.0 0.9 2.9 | 29 | 06:28 12:47 SEG 19:03 | 2.5 1.5 2.3 |
| 14 | 04:37 10:33 SEG 16:52 23:07 | 3.0 0.8 3.3 0.7 | 30 | 05:51 11:44 QUA 18:08 | 2.8 1.1 2.9 | 14 | 05:39 11:39 QUI 18:00 | 3.1 0.8 3.2 | 30 | 00:02 06:20 SÁB 12:23 18:41 | 1.2 2.6 1.3 2.5 | 14 | 00:36 07:04 DOM 13:25 19:48 | 1.1 2.8 1.2 2.6 | 30 | 01:04 07:45 TER 14:29 20:48 | 1.6 2.4 1.6 2.2 |
| 15 | 05:20 11:16 TER 17:36 23:51 | 3.0 0.9 3.2 0.8 | 31 | 00:19 06:31 QUI 12:25 18:49 | 1.1 2.7 1.2 2.7 | 15 | 00:09 06:28 SEX 12:30 18:53 | 0.8 3.0 1.0 3.0 | 31 | 00:47 07:14 DOM 13:27 19:46 | 1.4 2.5 1.5 2.3 | 15 | 01:53 08:27 SEG 15:08 21:26 | 1.4 2.7 1.3 2.5 | | | |
| 16 | 06:06 12:03 QUA 18:25 | 2.9 1.0 3.1 | | | | 16 | 01:02 07:26 SÁB 13:36 19:59 | 1.0 2.8 1.2 2.8 | | | | 16 | 03:38 10:03 TER 16:46 22:58 | 1.4 2.7 1.2 2.6 | | | |

Porto de Sines

Latitude 37° 56.89' N Longitude 8° 53.27' W

Horas do Fuso: 0 (TU)

Ano: 2025

| OUTUBRO | | | | | NOVEMBRO | | | | | DEZEMBRO | | | | | | | |
|-----------|-------|--------|-----------|--------|----------|-----------|--------|------|-----------|----------|------|-----------|-------|--------|-----------|-------|-----|
| | Hora | Altura | Hora | Altura | | Hora | Altura | Hora | Altura | | Hora | Altura | Hora | Altura | | | |
| 01 | 03:02 | 1.6 | 17 | 05:40 | 1.2 | 01 | 04:45 | 1.3 | 17 | 00:27 | 2.9 | 01 | 04:53 | 1.1 | 17 | 00:34 | 2.8 |
| | 09:28 | 2.4 | | 11:54 | 3.0 | | 10:54 | 2.9 | | 06:29 | 1.0 | | 11:05 | 3.0 | | 06:44 | 1.1 |
| | 16:14 | 1.5 | SEX | 18:17 | 0.9 | SÁB | 17:17 | 1.0 | SEG | 12:42 | 3.0 | SEG | 17:22 | 0.8 | QUA | 12:54 | 2.8 |
| | 22:30 | 2.3 | | | | | 23:32 | 2.8 | | 18:51 | 0.9 | | 23:40 | 3.0 | | 18:58 | 1.1 |
| 02 | 04:35 | 1.5 | 18 | 00:24 | 2.9 | 02 | 05:34 | 1.0 | 18 | 01:01 | 3.0 | 02 | 05:46 | 0.9 | 18 | 01:12 | 2.9 |
| | 10:46 | 2.6 | | 06:22 | 1.0 | | 11:43 | 3.1 | | 07:05 | 0.9 | | 11:58 | 3.2 | | 07:23 | 1.0 |
| | 17:17 | 1.3 | SÁB | 12:36 | 3.1 | DOM | 18:00 | 0.8 | TER | 13:17 | 3.0 | TER | 18:11 | 0.7 | QUI | 13:32 | 2.8 |
| | 23:30 | 2.6 | | 18:53 | 0.8 | | | | | 19:22 | 0.9 | | | | | 19:33 | 1.0 |
| 03 | 05:30 | 1.3 | 19 | 00:59 | 3.0 | 03 | 00:15 | 3.1 | 19 | 01:34 | 3.1 | 03 | 00:28 | 3.2 | 19 | 01:47 | 3.0 |
| | 11:39 | 2.8 | | 06:58 | 0.9 | | 06:17 | 0.8 | | 07:39 | 0.9 | | 06:37 | 0.7 | | 08:01 | 1.0 |
| | 18:01 | 1.0 | DOM | 13:12 | 3.2 | SEG | 12:28 | 3.3 | QUA | 13:50 | 3.0 | QUA | 12:49 | 3.3 | SEX | 14:09 | 2.9 |
| | | | | 19:24 | 0.7 | | 18:42 | 0.5 | | 19:53 | 0.9 | | 18:59 | 0.6 | | 20:08 | 1.0 |
| 04 | 00:12 | 2.8 | 20 | 01:31 | 3.1 | 04 | 00:56 | 3.3 | 20 | 02:05 | 3.1 | 04 | 01:15 | 3.4 | 20 | 02:22 | 3.1 |
| | 06:12 | 1.0 | | 07:30 | 0.8 | | 07:00 | 0.6 | | 08:12 | 0.9 | | 07:26 | 0.5 | | 08:36 | 0.9 |
| | 12:21 | 3.1 | SEG | 13:45 | 3.2 | TER | 13:12 | 3.5 | QUI | 14:23 | 3.0 | QUI | 13:40 | 3.4 | SÁB | 14:44 | 2.9 |
| | 18:39 | 0.8 | | 19:52 | 0.7 | | 19:23 | 0.4 | ● | 20:23 | 0.9 | ○ | 19:45 | 0.5 | ● | 20:41 | 0.9 |
| 05 | 00:50 | 3.1 | 21 | 02:01 | 3.2 | 05 | 01:37 | 3.5 | 21 | 02:37 | 3.1 | 05 | 02:02 | 3.5 | 21 | 02:57 | 3.1 |
| | 06:51 | 0.8 | | 08:01 | 0.7 | | 07:43 | 0.4 | | 08:46 | 0.9 | | 08:16 | 0.4 | | 09:11 | 0.9 |
| | 13:01 | 3.3 | TER | 14:16 | 3.2 | QUA | 13:57 | 3.6 | SEX | 14:56 | 3.0 | SEX | 14:30 | 3.4 | DOM | 15:19 | 2.9 |
| | 19:15 | 0.5 | ● | 20:20 | 0.7 | ○ | 20:04 | 0.3 | | 20:54 | 0.9 | | 20:32 | 0.5 | | 21:15 | 0.9 |
| 06 | 01:27 | 3.3 | 22 | 02:31 | 3.2 | 06 | 02:19 | 3.6 | 22 | 03:09 | 3.1 | 06 | 02:50 | 3.6 | 22 | 03:32 | 3.1 |
| | 07:28 | 0.6 | | 08:32 | 0.7 | | 08:27 | 0.3 | | 09:19 | 0.9 | | 09:06 | 0.4 | | 09:46 | 0.9 |
| | 13:40 | 3.5 | QUA | 14:46 | 3.2 | QUI | 14:42 | 3.6 | SÁB | 15:29 | 2.9 | SÁB | 15:20 | 3.3 | SEG | 15:55 | 2.9 |
| | 19:52 | 0.4 | | 20:48 | 0.7 | | 20:47 | 0.4 | | 21:26 | 1.0 | | 21:19 | 0.6 | | 21:50 | 1.0 |
| 07 | 02:04 | 3.5 | 23 | 03:00 | 3.2 | 07 | 03:03 | 3.6 | 23 | 03:42 | 3.1 | 07 | 03:39 | 3.5 | 23 | 04:08 | 3.1 |
| | 08:07 | 0.4 | | 09:03 | 0.8 | | 09:14 | 0.4 | | 09:55 | 0.9 | | 09:57 | 0.5 | | 10:23 | 0.9 |
| | 14:20 | 3.7 | QUI | 15:16 | 3.1 | SEX | 15:30 | 3.5 | DOM | 16:04 | 2.8 | DOM | 16:11 | 3.2 | TER | 16:32 | 2.8 |
| | 20:30 | 0.3 | | 21:16 | 0.8 | | 21:31 | 0.5 | | 21:59 | 1.0 | | 22:07 | 0.7 | | 22:27 | 1.0 |
| 08 | 02:43 | 3.6 | 24 | 03:29 | 3.1 | 08 | 03:49 | 3.5 | 24 | 04:18 | 3.0 | 08 | 04:29 | 3.4 | 24 | 04:47 | 3.1 |
| | 08:47 | 0.3 | | 09:34 | 0.8 | | 10:03 | 0.5 | | 10:33 | 1.0 | | 10:50 | 0.6 | | 11:02 | 0.9 |
| | 15:02 | 3.7 | SEX | 15:46 | 3.0 | SÁB | 16:19 | 3.3 | SEG | 16:42 | 2.7 | SEG | 17:03 | 3.0 | QUA | 17:13 | 2.8 |
| | 21:09 | 0.3 | | 21:45 | 0.9 | | 22:17 | 0.7 | | 22:36 | 1.1 | | 22:56 | 0.9 | | 23:08 | 1.1 |
| 09 | 03:24 | 3.6 | 25 | 04:00 | 3.0 | 09 | 04:39 | 3.4 | 25 | 04:59 | 2.9 | 09 | 05:21 | 3.3 | 25 | 05:29 | 3.0 |
| | 09:29 | 0.3 | | 10:07 | 1.0 | | 10:57 | 0.7 | | 11:16 | 1.1 | | 11:44 | 0.8 | | 11:45 | 1.0 |
| | 15:46 | 3.6 | SÁB | 16:19 | 2.8 | DOM | 17:13 | 3.0 | TER | 17:26 | 2.6 | TER | 17:57 | 2.8 | QUI | 17:58 | 2.8 |
| | 21:50 | 0.4 | | 22:15 | 1.1 | | 23:08 | 0.9 | | 23:20 | 1.3 | | 23:48 | 1.1 | | 23:54 | 1.1 |
| 10 | 04:06 | 3.5 | 26 | 04:34 | 2.9 | 10 | 05:34 | 3.2 | 26 | 05:45 | 2.8 | 10 | 06:16 | 3.1 | 26 | 06:16 | 2.9 |
| | 10:14 | 0.5 | | 10:44 | 1.1 | | 11:58 | 0.9 | | 12:06 | 1.2 | | 12:43 | 1.0 | | 12:34 | 1.0 |
| | 16:32 | 3.4 | DOM | 16:55 | 2.7 | SEG | 18:14 | 2.8 | QUA | 18:20 | 2.5 | QUA | 18:55 | 2.7 | SEX | 18:51 | 2.7 |
| | 22:33 | 0.6 | | 22:50 | 1.2 | | | | | | | | | | | | |
| 11 | 04:53 | 3.3 | 27 | 05:13 | 2.8 | 11 | 00:07 | 1.2 | 27 | 00:15 | 1.4 | 11 | 00:46 | 1.2 | 27 | 00:48 | 1.2 |
| | 11:04 | 0.7 | | 11:27 | 1.2 | | 06:37 | 3.0 | | 06:42 | 2.7 | | 07:15 | 2.9 | | 07:11 | 2.9 |
| | 17:23 | 3.1 | SEG | 17:39 | 2.5 | TER | 13:12 | 1.1 | QUI | 13:08 | 1.3 | QUI | 13:46 | 1.1 | SÁB | 13:30 | 1.1 |
| | 23:21 | 0.9 | | 23:32 | 1.4 | | 19:27 | 2.6 | | 19:27 | 2.5 | ((| 19:59 | 2.5 |)) | 19:51 | 2.7 |
| 12 | 05:45 | 3.1 | 28 | 06:02 | 2.6 | 12 | 01:21 | 1.3 | 28 | 01:25 | 1.4 | 12 | 01:52 | 1.3 | 28 | 01:52 | 1.2 |
| | 12:04 | 0.9 | | 12:24 | 1.4 | | 07:53 | 2.8 | | 07:50 | 2.7 | | 08:20 | 2.8 | | 08:14 | 2.8 |
| | 18:24 | 2.8 | TER | 18:39 | 2.4 | QUA | 14:36 | 1.2 | SEX | 14:20 | 1.2 | SEX | 14:52 | 1.2 | DOM | 14:34 | 1.1 |
| | | | | | | ((| 20:50 | 2.5 |)) | 20:41 | 2.5 | | 21:06 | 2.5 | | 20:59 | 2.7 |
| 13 | 00:20 | 1.2 | 29 | 00:34 | 1.5 | 13 | 02:48 | 1.4 | 29 | 02:43 | 1.4 | 13 | 03:03 | 1.4 | 29 | 03:03 | 1.2 |
| | 06:50 | 2.9 | | 07:09 | 2.5 | | 09:13 | 2.8 | | 09:01 | 2.7 | | 09:27 | 2.7 | | 09:23 | 2.8 |
| | 13:23 | 1.2 | QUA | 13:47 | 1.4 | QUI | 15:53 | 1.2 | SÁB | 15:29 | 1.1 | SÁB | 15:55 | 1.3 | SEG | 15:42 | 1.1 |
| | ((| 19:43 |)) | 20:06 | 2.3 | | 22:06 | 2.5 | | 21:50 | 2.6 | | 22:10 | 2.5 | | 22:07 | 2.8 |
| 14 | 01:43 | 1.4 | 30 | 02:10 | 1.6 | 14 | 04:04 | 1.3 | 30 | 03:53 | 1.3 | 14 | 04:10 | 1.4 | 30 | 04:16 | 1.2 |
| | 08:16 | 2.7 | | 08:37 | 2.5 | | 10:22 | 2.8 | | 10:07 | 2.9 | | 10:29 | 2.7 | | 10:32 | 2.9 |
| | 15:05 | 1.2 | QUI | 15:19 | 1.4 | SEX | 16:53 | 1.1 | DOM | 16:29 | 1.0 | DOM | 16:51 | 1.2 | TER | 16:48 | 1.0 |
| | 21:21 | 2.5 | | 21:39 | 2.4 | | 23:04 | 2.6 | | 22:48 | 2.8 | | 23:05 | 2.6 | | 23:10 | 2.9 |
| 15 | 03:26 | 1.4 | 31 | 03:42 | 1.5 | 15 | 05:03 | 1.2 | 15 | 05:09 | 1.3 | 15 | 05:09 | 1.3 | 31 | 05:23 | 1.0 |
| | 09:49 | 2.7 | | 09:55 | 2.6 | | 11:18 | 2.9 | | 11:24 | 2.7 | | 11:24 | 2.7 | | 11:37 | 3.0 |
| | 16:32 | 1.2 | SEX | 16:26 | 1.2 | SÁB | 17:40 | 1.0 | SEG | 17:38 | 1.2 | SEG | 17:38 | 1.2 | QUA | 17:49 | 0.9 |
| | 22:45 | 2.6 | | 22:43 | 2.6 | | 23:49 | 2.8 | | 23:52 | 2.7 | | 23:52 | 2.7 | | | |
| 16 | 04:45 | 1.3 | | | | 16 | 05:49 | 1.1 | 16 | 06:00 | 1.2 | 16 | 06:00 | 1.2 | | | |
| | 11:01 | 2.9 | | | | | 12:03 | 2.9 | | 12:12 | 2.7 | | 12:12 | 2.7 | | | |
| | 17:33 | 1.0 | | | | DOM | 18:18 | 1.0 | | 18:20 | 1.1 | | 18:20 | 1.1 | | | |
| | 23:42 | 2.7 | | | | | | | | | | | | | | | |

Sines

Latitude 37° 56.89' N Longitude 8° 53.27' W

Horas do Fuso: 0 (TU)

JANEIRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 QUA | 2.11 | 2.69 | 3.14 | 3.32 | 3.18 | 2.76 | 2.15 | 1.52 | 1.01 | 0.74 | 0.79 | 1.12 | 1.65 | 2.24 | 2.75 | 3.05 | 3.06 | 2.76 | 2.25 | 1.67 | 1.16 | 0.87 | 0.88 | 1.18 |
| 02 QUI | 1.71 | 2.33 | 2.90 | 3.28 | 3.36 | 3.11 | 2.60 | 1.94 | 1.31 | 0.85 | 0.69 | 0.84 | 1.25 | 1.82 | 2.41 | 2.88 | 3.10 | 3.01 | 2.63 | 2.07 | 1.49 | 1.04 | 0.84 | 0.95 |
| 03 SEX | 1.33 | 1.90 | 2.51 | 3.04 | 3.34 | 3.32 | 2.99 | 2.42 | 1.75 | 1.15 | 0.78 | 0.71 | 0.94 | 1.40 | 1.98 | 2.54 | 2.94 | 3.08 | 2.91 | 2.48 | 1.92 | 1.37 | 0.99 | 0.88 |
| 04 SÁB | 1.06 | 1.49 | 2.05 | 2.64 | 3.10 | 3.32 | 3.23 | 2.84 | 2.25 | 1.61 | 1.08 | 0.79 | 0.79 | 1.07 | 1.55 | 2.10 | 2.61 | 2.94 | 3.00 | 2.78 | 2.34 | 1.81 | 1.32 | 1.01 |
| 05 DOM | 0.97 | 1.19 | 1.62 | 2.16 | 2.69 | 3.09 | 3.24 | 3.09 | 2.69 | 2.12 | 1.54 | 1.08 | 0.86 | 0.92 | 1.21 | 1.66 | 2.16 | 2.61 | 2.88 | 2.90 | 2.67 | 2.25 | 1.76 | 1.34 |
| 06 SEG | 1.09 | 1.08 | 1.31 | 1.70 | 2.19 | 2.66 | 3.00 | 3.11 | 2.96 | 2.57 | 2.06 | 1.54 | 1.15 | 0.98 | 1.04 | 1.31 | 1.72 | 2.18 | 2.57 | 2.80 | 2.81 | 2.60 | 2.22 | 1.79 |
| 07 TER | 1.41 | 1.19 | 1.18 | 1.37 | 1.72 | 2.15 | 2.57 | 2.88 | 2.98 | 2.85 | 2.51 | 2.05 | 1.59 | 1.25 | 1.09 | 1.14 | 1.37 | 1.73 | 2.14 | 2.51 | 2.74 | 2.77 | 2.59 | 2.26 |
| 08 QUA | 1.86 | 1.51 | 1.28 | 1.24 | 1.38 | 1.67 | 2.05 | 2.45 | 2.75 | 2.88 | 2.79 | 2.51 | 2.10 | 1.68 | 1.35 | 1.17 | 1.18 | 1.37 | 1.70 | 2.09 | 2.46 | 2.72 | 2.79 | 2.65 |
| 09 QUI | 2.35 | 1.96 | 1.59 | 1.32 | 1.22 | 1.31 | 1.56 | 1.92 | 2.32 | 2.65 | 2.83 | 2.79 | 2.55 | 2.18 | 1.76 | 1.41 | 1.19 | 1.17 | 1.33 | 1.65 | 2.06 | 2.47 | 2.77 | 2.88 |
| 10 SEX | 2.77 | 2.46 | 2.05 | 1.63 | 1.30 | 1.15 | 1.19 | 1.42 | 1.80 | 2.23 | 2.61 | 2.84 | 2.84 | 2.62 | 2.24 | 1.80 | 1.40 | 1.15 | 1.10 | 1.27 | 1.61 | 2.07 | 2.53 | 2.88 |
| 11 SÁB | 3.01 | 2.90 | 2.57 | 2.10 | 1.61 | 1.22 | 1.02 | 1.05 | 1.29 | 1.71 | 2.21 | 2.65 | 2.91 | 2.92 | 2.69 | 2.27 | 1.77 | 1.33 | 1.06 | 1.02 | 1.21 | 1.62 | 2.14 | 2.66 |
| 12 DOM | 3.04 | 3.17 | 3.02 | 2.62 | 2.07 | 1.52 | 1.08 | 0.87 | 0.92 | 1.22 | 1.71 | 2.26 | 2.74 | 3.01 | 2.99 | 2.71 | 2.23 | 1.68 | 1.21 | 0.94 | 0.94 | 1.21 | 1.69 | 2.28 |
| 13 SEG | 2.83 | 3.21 | 3.30 | 3.08 | 2.60 | 1.97 | 1.37 | 0.92 | 0.74 | 0.85 | 1.23 | 1.78 | 2.38 | 2.86 | 3.09 | 3.02 | 2.66 | 2.11 | 1.52 | 1.06 | 0.84 | 0.92 | 1.28 | 1.84 |
| 14 TER | 2.47 | 3.02 | 3.35 | 3.36 | 3.05 | 2.48 | 1.81 | 1.19 | 0.78 | 0.67 | 0.87 | 1.33 | 1.94 | 2.54 | 2.98 | 3.14 | 2.97 | 2.52 | 1.92 | 1.33 | 0.92 | 0.79 | 0.97 | 1.42 |
| 15 QUA | 2.04 | 2.68 | 3.19 | 3.43 | 3.34 | 2.93 | 2.29 | 1.60 | 1.02 | 0.70 | 0.69 | 1.00 | 1.52 | 2.14 | 2.70 | 3.06 | 3.10 | 2.83 | 2.31 | 1.70 | 1.16 | 0.84 | 0.82 | 1.12 |
| 16 QUI | 1.64 | 2.27 | 2.87 | 3.29 | 3.42 | 3.21 | 2.71 | 2.05 | 1.40 | 0.91 | 0.70 | 0.82 | 1.20 | 1.76 | 2.34 | 2.82 | 3.06 | 2.98 | 2.62 | 2.07 | 1.48 | 1.03 | 0.84 | 0.95 |
| 17 SEX | 1.33 | 1.88 | 2.48 | 3.00 | 3.30 | 3.30 | 2.99 | 2.45 | 1.81 | 1.24 | 0.87 | 0.80 | 1.03 | 1.46 | 2.00 | 2.52 | 2.88 | 2.98 | 2.79 | 2.37 | 1.83 | 1.32 | 0.99 | 0.93 |
| 18 SÁB | 1.15 | 1.58 | 2.11 | 2.65 | 3.05 | 3.22 | 3.10 | 2.72 | 2.18 | 1.61 | 1.15 | 0.93 | 0.98 | 1.28 | 1.72 | 2.20 | 2.62 | 2.85 | 2.84 | 2.57 | 2.13 | 1.65 | 1.25 | 1.05 |
| 19 DOM | 1.10 | 1.37 | 1.81 | 2.29 | 2.73 | 3.01 | 3.06 | 2.86 | 2.45 | 1.95 | 1.48 | 1.16 | 1.06 | 1.20 | 1.52 | 1.93 | 2.34 | 2.64 | 2.76 | 2.66 | 2.36 | 1.96 | 1.55 | 1.26 |
| 20 SEG | 1.17 | 1.29 | 1.59 | 1.98 | 2.39 | 2.72 | 2.89 | 2.85 | 2.61 | 2.23 | 1.80 | 1.44 | 1.24 | 1.23 | 1.41 | 1.71 | 2.07 | 2.39 | 2.60 | 2.64 | 2.50 | 2.21 | 1.87 | 1.55 |
| 21 TER | 1.35 | 1.33 | 1.47 | 1.74 | 2.07 | 2.39 | 2.63 | 2.72 | 2.64 | 2.41 | 2.08 | 1.75 | 1.49 | 1.36 | 1.40 | 1.57 | 1.83 | 2.12 | 2.37 | 2.52 | 2.53 | 2.39 | 2.15 | 1.86 |
| 22 QUA | 1.62 | 1.48 | 1.47 | 1.59 | 1.80 | 2.07 | 2.32 | 2.50 | 2.56 | 2.49 | 2.29 | 2.03 | 1.77 | 1.57 | 1.48 | 1.51 | 1.65 | 1.87 | 2.11 | 2.32 | 2.45 | 2.47 | 2.36 | 2.17 |
| 23 QUI | 1.93 | 1.72 | 1.58 | 1.55 | 1.62 | 1.78 | 2.00 | 2.21 | 2.38 | 2.45 | 2.41 | 2.27 | 2.05 | 1.83 | 1.65 | 1.55 | 1.55 | 1.65 | 1.84 | 2.06 | 2.28 | 2.43 | 2.48 | 2.42 |
| 24 SEX | 2.25 | 2.02 | 1.80 | 1.63 | 1.55 | 1.57 | 1.70 | 1.89 | 2.12 | 2.31 | 2.42 | 2.42 | 2.31 | 2.12 | 1.89 | 1.68 | 1.54 | 1.50 | 1.59 | 1.78 | 2.03 | 2.29 | 2.49 | 2.58 |
| 25 SÁB | 2.53 | 2.35 | 2.09 | 1.82 | 1.59 | 1.45 | 1.45 | 1.58 | 1.80 | 2.08 | 2.32 | 2.49 | 2.51 | 2.40 | 2.18 | 1.90 | 1.63 | 1.44 | 1.39 | 1.50 | 1.73 | 2.06 | 2.39 | 2.63 |
| 26 DOM | 2.74 | 2.66 | 2.43 | 2.10 | 1.74 | 1.45 | 1.28 | 1.29 | 1.47 | 1.77 | 2.12 | 2.44 | 2.63 | 2.65 | 2.49 | 2.19 | 1.82 | 1.49 | 1.28 | 1.25 | 1.42 | 1.75 | 2.17 | 2.57 |
| 27 SEG | 2.84 | 2.92 | 2.78 | 2.45 | 2.01 | 1.57 | 1.23 | 1.08 | 1.14 | 1.41 | 1.83 | 2.27 | 2.63 | 2.82 | 2.78 | 2.52 | 2.12 | 1.66 | 1.29 | 1.09 | 1.13 | 1.40 | 1.85 | 2.36 |
| 28 TER | 2.81 | 3.08 | 3.09 | 2.84 | 2.38 | 1.83 | 1.32 | 0.97 | 0.88 | 1.05 | 1.45 | 1.97 | 2.49 | 2.87 | 3.01 | 2.87 | 2.48 | 1.96 | 1.43 | 1.05 | 0.91 | 1.05 | 1.46 | 2.03 |
| 29 QUA | 2.62 | 3.08 | 3.30 | 3.21 | 2.81 | 2.22 | 1.57 | 1.03 | 0.73 | 0.73 | 1.04 | 1.57 | 2.19 | 2.75 | 3.10 | 3.14 | 2.87 | 2.36 | 1.73 | 1.17 | 0.82 | 0.78 | 1.06 | 1.60 |
| 30 QUI | 2.27 | 2.90 | 3.34 | 3.46 | 3.23 | 2.70 | 1.99 | 1.29 | 0.77 | 0.55 | 0.68 | 1.13 | 1.77 | 2.44 | 2.99 | 3.27 | 3.19 | 2.78 | 2.15 | 1.48 | 0.93 | 0.66 | 0.75 | 1.16 |
| 31 SEX | 1.81 | 2.53 | 3.15 | 3.52 | 3.53 | 3.16 | 2.51 | 1.73 | 1.03 | 0.57 | 0.47 | 0.74 | 1.30 | 2.00 | 2.68 | 3.17 | 3.34 | 3.14 | 2.61 | 1.92 | 1.24 | 0.76 | 0.60 | 0.81 |

Sines

Latitude 37° 56.89' N Longitude 8° 53.27' W

Horas do Fuso: 0 (TU)

FEVEREIRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 SAB | 1.33 | 2.03 | 2.76 | 3.33 | 3.60 | 3.48 | 3.00 | 2.27 | 1.49 | 0.84 | 0.50 | 0.52 | 0.90 | 1.52 | 2.22 | 2.86 | 3.25 | 3.30 | 2.99 | 2.40 | 1.70 | 1.07 | 0.69 | 0.65 |
| 02 DOM | 0.96 | 1.53 | 2.23 | 2.91 | 3.39 | 3.55 | 3.33 | 2.78 | 2.05 | 1.32 | 0.77 | 0.55 | 0.68 | 1.12 | 1.73 | 2.39 | 2.94 | 3.23 | 3.17 | 2.80 | 2.20 | 1.54 | 1.01 | 0.74 |
| 03 SEG | 0.80 | 1.15 | 1.72 | 2.36 | 2.95 | 3.33 | 3.39 | 3.11 | 2.55 | 1.88 | 1.25 | 0.83 | 0.71 | 0.91 | 1.34 | 1.91 | 2.48 | 2.92 | 3.11 | 2.99 | 2.60 | 2.05 | 1.49 | 1.06 |
| 04 TER | 0.88 | 0.99 | 1.34 | 1.84 | 2.40 | 2.88 | 3.16 | 3.16 | 2.87 | 2.37 | 1.79 | 1.29 | 0.98 | 0.94 | 1.14 | 1.53 | 2.00 | 2.47 | 2.82 | 2.94 | 2.81 | 2.47 | 2.00 | 1.54 |
| 05 QUA | 1.20 | 1.08 | 1.17 | 1.46 | 1.87 | 2.32 | 2.71 | 2.92 | 2.91 | 2.67 | 2.27 | 1.81 | 1.42 | 1.19 | 1.16 | 1.32 | 1.63 | 2.01 | 2.39 | 2.67 | 2.78 | 2.69 | 2.43 | 2.06 |
| 06 QUI | 1.68 | 1.39 | 1.26 | 1.30 | 1.49 | 1.80 | 2.16 | 2.48 | 2.69 | 2.72 | 2.57 | 2.27 | 1.92 | 1.60 | 1.39 | 1.33 | 1.41 | 1.63 | 1.94 | 2.27 | 2.54 | 2.69 | 2.67 | 2.49 |
| 07 SEX | 2.19 | 1.85 | 1.56 | 1.38 | 1.33 | 1.43 | 1.65 | 1.96 | 2.27 | 2.52 | 2.62 | 2.56 | 2.36 | 2.06 | 1.76 | 1.51 | 1.39 | 1.40 | 1.55 | 1.83 | 2.16 | 2.48 | 2.69 | 2.75 |
| 08 SAB | 2.63 | 2.36 | 2.01 | 1.67 | 1.40 | 1.26 | 1.29 | 1.47 | 1.78 | 2.14 | 2.45 | 2.64 | 2.65 | 2.48 | 2.19 | 1.84 | 1.53 | 1.33 | 1.30 | 1.44 | 1.73 | 2.12 | 2.51 | 2.80 |
| 09 DOM | 2.90 | 2.80 | 2.51 | 2.10 | 1.66 | 1.31 | 1.11 | 1.11 | 1.32 | 1.68 | 2.12 | 2.51 | 2.75 | 2.78 | 2.59 | 2.24 | 1.82 | 1.44 | 1.19 | 1.15 | 1.33 | 1.70 | 2.17 | 2.64 |
| 10 SEG | 2.98 | 3.09 | 2.95 | 2.58 | 2.07 | 1.55 | 1.14 | 0.93 | 0.97 | 1.25 | 1.70 | 2.22 | 2.66 | 2.91 | 2.90 | 2.63 | 2.19 | 1.68 | 1.25 | 1.01 | 1.03 | 1.30 | 1.77 | 2.33 |
| 11 TER | 2.85 | 3.18 | 3.24 | 3.01 | 2.53 | 1.92 | 1.34 | 0.93 | 0.77 | 0.91 | 1.30 | 1.85 | 2.42 | 2.86 | 3.05 | 2.94 | 2.56 | 2.02 | 1.45 | 1.03 | 0.86 | 0.98 | 1.37 | 1.94 |
| 12 QUA | 2.56 | 3.08 | 3.36 | 3.31 | 2.95 | 2.36 | 1.69 | 1.10 | 0.75 | 0.71 | 0.97 | 1.47 | 2.09 | 2.66 | 3.05 | 3.13 | 2.88 | 2.38 | 1.76 | 1.20 | 0.84 | 0.79 | 1.05 | 1.56 |
| 13 QUI | 2.20 | 2.82 | 3.28 | 3.44 | 3.25 | 2.76 | 2.09 | 1.40 | 0.88 | 0.65 | 0.76 | 1.16 | 1.74 | 2.38 | 2.89 | 3.16 | 3.09 | 2.70 | 2.11 | 1.47 | 0.97 | 0.74 | 0.84 | 1.23 |
| 14 SEX | 1.82 | 2.48 | 3.05 | 3.39 | 3.40 | 3.06 | 2.47 | 1.77 | 1.14 | 0.75 | 0.68 | 0.94 | 1.44 | 2.06 | 2.65 | 3.05 | 3.16 | 2.93 | 2.43 | 1.80 | 1.21 | 0.83 | 0.75 | 1.00 |
| 15 SAB | 1.50 | 2.13 | 2.74 | 3.20 | 3.38 | 3.23 | 2.77 | 2.13 | 1.47 | 0.96 | 0.74 | 0.84 | 1.22 | 1.77 | 2.36 | 2.85 | 3.10 | 3.04 | 2.68 | 2.12 | 1.52 | 1.04 | 0.81 | 0.89 |
| 16 DOM | 1.26 | 1.80 | 2.40 | 2.92 | 3.23 | 3.25 | 2.96 | 2.43 | 1.81 | 1.25 | 0.90 | 0.85 | 1.09 | 1.54 | 2.08 | 2.59 | 2.94 | 3.03 | 2.83 | 2.39 | 1.84 | 1.32 | 0.98 | 0.91 |
| 17 SEG | 1.12 | 1.55 | 2.08 | 2.59 | 2.98 | 3.13 | 3.01 | 2.63 | 2.11 | 1.56 | 1.15 | 0.97 | 1.06 | 1.38 | 1.84 | 2.32 | 2.71 | 2.91 | 2.86 | 2.57 | 2.13 | 1.64 | 1.24 | 1.05 |
| 18 TER | 1.10 | 1.38 | 1.80 | 2.27 | 2.67 | 2.91 | 2.94 | 2.72 | 2.33 | 1.86 | 1.44 | 1.18 | 1.14 | 1.31 | 1.65 | 2.06 | 2.44 | 2.71 | 2.79 | 2.66 | 2.35 | 1.94 | 1.55 | 1.28 |
| 19 QUA | 1.20 | 1.33 | 1.61 | 1.98 | 2.34 | 2.63 | 2.76 | 2.69 | 2.46 | 2.10 | 1.73 | 1.44 | 1.30 | 1.34 | 1.54 | 1.84 | 2.17 | 2.46 | 2.63 | 2.63 | 2.48 | 2.20 | 1.87 | 1.58 |
| 20 QUI | 1.41 | 1.39 | 1.52 | 1.76 | 2.04 | 2.31 | 2.50 | 2.56 | 2.47 | 2.27 | 2.00 | 1.73 | 1.54 | 1.47 | 1.53 | 1.70 | 1.93 | 2.18 | 2.39 | 2.50 | 2.50 | 2.37 | 2.15 | 1.91 |
| 21 SEX | 1.69 | 1.57 | 1.55 | 1.63 | 1.79 | 1.99 | 2.19 | 2.33 | 2.38 | 2.33 | 2.20 | 2.01 | 1.82 | 1.68 | 1.61 | 1.64 | 1.74 | 1.90 | 2.10 | 2.28 | 2.40 | 2.43 | 2.37 | 2.22 |
| 22 SAB | 2.02 | 1.83 | 1.69 | 1.62 | 1.62 | 1.71 | 1.86 | 2.04 | 2.20 | 2.30 | 2.32 | 2.25 | 2.11 | 1.95 | 1.79 | 1.68 | 1.63 | 1.67 | 1.80 | 1.99 | 2.20 | 2.38 | 2.48 | 2.47 |
| 23 DOM | 2.36 | 2.16 | 1.93 | 1.72 | 1.56 | 1.50 | 1.55 | 1.70 | 1.92 | 2.15 | 2.33 | 2.42 | 2.40 | 2.26 | 2.05 | 1.82 | 1.62 | 1.51 | 1.52 | 1.66 | 1.91 | 2.21 | 2.47 | 2.64 |
| 24 SEG | 2.66 | 2.52 | 2.26 | 1.94 | 1.62 | 1.39 | 1.29 | 1.36 | 1.58 | 1.89 | 2.23 | 2.49 | 2.62 | 2.58 | 2.38 | 2.07 | 1.73 | 1.45 | 1.30 | 1.34 | 1.56 | 1.92 | 2.33 | 2.68 |
| 25 TER | 2.88 | 2.88 | 2.66 | 2.28 | 1.82 | 1.40 | 1.12 | 1.04 | 1.19 | 1.53 | 1.98 | 2.42 | 2.75 | 2.87 | 2.75 | 2.43 | 1.98 | 1.52 | 1.19 | 1.06 | 1.18 | 1.53 | 2.03 | 2.55 |
| 26 QUA | 2.97 | 3.16 | 3.07 | 2.72 | 2.18 | 1.59 | 1.10 | 0.82 | 0.82 | 1.10 | 1.60 | 2.18 | 2.71 | 3.04 | 3.09 | 2.84 | 2.36 | 1.77 | 1.23 | 0.89 | 0.84 | 1.10 | 1.61 | 2.25 |
| 27 QUI | 2.86 | 3.28 | 3.41 | 3.18 | 2.66 | 1.97 | 1.28 | 0.77 | 0.56 | 0.69 | 1.13 | 1.78 | 2.47 | 3.02 | 3.30 | 3.23 | 2.82 | 2.18 | 1.48 | 0.92 | 0.63 | 0.71 | 1.12 | 1.79 |
| 28 SEX | 2.53 | 3.18 | 3.56 | 3.56 | 3.18 | 2.50 | 1.69 | 0.96 | 0.49 | 0.39 | 0.68 | 1.28 | 2.04 | 2.77 | 3.29 | 3.47 | 3.24 | 2.67 | 1.91 | 1.17 | 0.64 | 0.47 | 0.70 | 1.26 |

Sines

Latitude 37° 56.89' N Longitude 8° 53.27' W

Horas do Fuso: 0 (TU)

MARÇO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 01 SÁB | 2.03 | 2.83 | 3.45 | 3.73 | 3.59 | 3.06 | 2.25 | 1.39 | 0.69 | 0.33 | 0.38 | 0.82 | 1.52 | 2.33 | 3.04 | 3.47 | 3.50 | 3.13 | 2.44 | 1.63 | 0.91 | 0.48 | 0.44 | 0.80 |
| 02 DOM | 1.47 | 2.28 | 3.06 | 3.60 | 3.75 | 3.48 | 2.83 | 1.98 | 1.15 | 0.54 | 0.32 | 0.51 | 1.05 | 1.80 | 2.58 | 3.21 | 3.51 | 3.40 | 2.92 | 2.18 | 1.39 | 0.76 | 0.46 | 0.55 |
| 03 SEG | 1.00 | 1.70 | 2.48 | 3.17 | 3.59 | 3.62 | 3.24 | 2.56 | 1.74 | 1.01 | 0.55 | 0.47 | 0.77 | 1.34 | 2.05 | 2.74 | 3.24 | 3.41 | 3.20 | 2.67 | 1.95 | 1.25 | 0.75 | 0.58 |
| 04 TER | 0.76 | 1.23 | 1.88 | 2.57 | 3.14 | 3.43 | 3.36 | 2.95 | 2.30 | 1.60 | 1.02 | 0.71 | 0.74 | 1.07 | 1.60 | 2.22 | 2.78 | 3.15 | 3.21 | 2.95 | 2.45 | 1.83 | 1.26 | 0.89 |
| 05 QUA | 0.80 | 1.01 | 1.43 | 1.98 | 2.54 | 2.97 | 3.16 | 3.05 | 2.67 | 2.13 | 1.58 | 1.15 | 0.97 | 1.05 | 1.35 | 1.79 | 2.27 | 2.70 | 2.96 | 2.97 | 2.74 | 2.32 | 1.82 | 1.39 |
| 06 QUI | 1.11 | 1.06 | 1.22 | 1.54 | 1.96 | 2.38 | 2.71 | 2.84 | 2.75 | 2.47 | 2.08 | 1.67 | 1.38 | 1.25 | 1.32 | 1.53 | 1.85 | 2.21 | 2.54 | 2.74 | 2.77 | 2.61 | 2.31 | 1.94 |
| 07 SEX | 1.60 | 1.37 | 1.29 | 1.35 | 1.55 | 1.84 | 2.15 | 2.42 | 2.57 | 2.56 | 2.40 | 2.14 | 1.85 | 1.62 | 1.49 | 1.48 | 1.59 | 1.80 | 2.07 | 2.35 | 2.57 | 2.66 | 2.60 | 2.41 |
| 08 SÁB | 2.13 | 1.83 | 1.57 | 1.41 | 1.37 | 1.45 | 1.65 | 1.92 | 2.19 | 2.40 | 2.49 | 2.44 | 2.28 | 2.04 | 1.80 | 1.60 | 1.51 | 1.52 | 1.67 | 1.91 | 2.21 | 2.49 | 2.67 | 2.71 |
| 09 DOM | 2.58 | 2.33 | 2.00 | 1.67 | 1.41 | 1.27 | 1.29 | 1.46 | 1.75 | 2.09 | 2.38 | 2.56 | 2.57 | 2.43 | 2.17 | 1.86 | 1.58 | 1.40 | 1.38 | 1.52 | 1.80 | 2.17 | 2.54 | 2.80 |
| 10 SEG | 2.88 | 2.76 | 2.46 | 2.06 | 1.63 | 1.29 | 1.11 | 1.12 | 1.34 | 1.70 | 2.13 | 2.50 | 2.72 | 2.73 | 2.54 | 2.19 | 1.78 | 1.43 | 1.22 | 1.21 | 1.41 | 1.79 | 2.26 | 2.70 |
| 11 TER | 2.99 | 3.06 | 2.88 | 2.48 | 1.97 | 1.47 | 1.09 | 0.93 | 1.02 | 1.34 | 1.81 | 2.31 | 2.71 | 2.91 | 2.84 | 2.54 | 2.07 | 1.58 | 1.20 | 1.02 | 1.09 | 1.41 | 1.90 | 2.45 |
| 12 QUA | 2.93 | 3.19 | 3.18 | 2.87 | 2.36 | 1.76 | 1.22 | 0.88 | 0.82 | 1.03 | 1.47 | 2.04 | 2.58 | 2.94 | 3.04 | 2.85 | 2.40 | 1.84 | 1.31 | 0.96 | 0.88 | 1.09 | 1.54 | 2.13 |
| 13 QUI | 2.72 | 3.16 | 3.33 | 3.18 | 2.73 | 2.11 | 1.46 | 0.97 | 0.73 | 0.81 | 1.18 | 1.73 | 2.35 | 2.86 | 3.13 | 3.08 | 2.72 | 2.15 | 1.53 | 1.03 | 0.79 | 0.85 | 1.21 | 1.78 |
| 14 SEX | 2.42 | 2.99 | 3.33 | 3.35 | 3.04 | 2.46 | 1.78 | 1.16 | 0.77 | 0.70 | 0.95 | 1.45 | 2.07 | 2.67 | 3.08 | 3.20 | 2.98 | 2.47 | 1.83 | 1.23 | 0.82 | 0.73 | 0.96 | 1.45 |
| 15 SÁB | 2.09 | 2.72 | 3.19 | 3.39 | 3.23 | 2.77 | 2.11 | 1.44 | 0.92 | 0.69 | 0.80 | 1.20 | 1.79 | 2.42 | 2.94 | 3.20 | 3.14 | 2.75 | 2.15 | 1.50 | 0.98 | 0.73 | 0.81 | 1.19 |
| 16 DOM | 1.76 | 2.40 | 2.96 | 3.29 | 3.30 | 2.99 | 2.42 | 1.75 | 1.16 | 0.79 | 0.75 | 1.03 | 1.54 | 2.15 | 2.71 | 3.09 | 3.18 | 2.95 | 2.44 | 1.82 | 1.23 | 0.85 | 0.77 | 1.01 |
| 17 SEG | 1.48 | 2.08 | 2.66 | 3.08 | 3.25 | 3.09 | 2.66 | 2.05 | 1.45 | 0.99 | 0.82 | 0.95 | 1.35 | 1.89 | 2.46 | 2.90 | 3.12 | 3.04 | 2.67 | 2.12 | 1.54 | 1.08 | 0.86 | 0.94 |
| 18 TER | 1.28 | 1.79 | 2.34 | 2.80 | 3.08 | 3.08 | 2.80 | 2.31 | 1.75 | 1.26 | 0.98 | 0.97 | 1.23 | 1.67 | 2.19 | 2.65 | 2.96 | 3.02 | 2.81 | 2.38 | 1.86 | 1.37 | 1.06 | 0.99 |
| 19 QUA | 1.18 | 1.56 | 2.03 | 2.49 | 2.82 | 2.95 | 2.82 | 2.48 | 2.01 | 1.55 | 1.21 | 1.09 | 1.20 | 1.52 | 1.95 | 2.38 | 2.72 | 2.89 | 2.84 | 2.56 | 2.14 | 1.70 | 1.33 | 1.15 |
| 20 QUI | 1.19 | 1.42 | 1.78 | 2.17 | 2.52 | 2.72 | 2.74 | 2.55 | 2.22 | 1.83 | 1.49 | 1.29 | 1.28 | 1.45 | 1.76 | 2.11 | 2.45 | 2.68 | 2.75 | 2.63 | 2.36 | 2.00 | 1.66 | 1.41 |
| 21 SEX | 1.32 | 1.40 | 1.61 | 1.90 | 2.20 | 2.43 | 2.55 | 2.51 | 2.34 | 2.07 | 1.78 | 1.55 | 1.45 | 1.49 | 1.65 | 1.89 | 2.16 | 2.40 | 2.56 | 2.59 | 2.47 | 2.26 | 1.98 | 1.73 |
| 22 SÁB | 1.55 | 1.49 | 1.55 | 1.69 | 1.90 | 2.11 | 2.29 | 2.37 | 2.35 | 2.23 | 2.05 | 1.85 | 1.69 | 1.62 | 1.63 | 1.73 | 1.89 | 2.09 | 2.28 | 2.43 | 2.47 | 2.42 | 2.27 | 2.07 |
| 23 DOM | 1.86 | 1.69 | 1.59 | 1.58 | 1.65 | 1.79 | 1.96 | 2.14 | 2.26 | 2.31 | 2.27 | 2.15 | 2.00 | 1.84 | 1.72 | 1.67 | 1.68 | 1.78 | 1.96 | 2.16 | 2.35 | 2.47 | 2.49 | 2.40 |
| 24 SEG | 2.22 | 1.99 | 1.76 | 1.58 | 1.48 | 1.49 | 1.61 | 1.81 | 2.05 | 2.26 | 2.40 | 2.43 | 2.34 | 2.16 | 1.93 | 1.71 | 1.56 | 1.52 | 1.61 | 1.82 | 2.10 | 2.38 | 2.60 | 2.68 |
| 25 TER | 2.60 | 2.38 | 2.06 | 1.72 | 1.43 | 1.27 | 1.26 | 1.43 | 1.72 | 2.07 | 2.40 | 2.61 | 2.66 | 2.53 | 2.25 | 1.90 | 1.57 | 1.34 | 1.29 | 1.42 | 1.73 | 2.14 | 2.55 | 2.84 |
| 26 QUA | 2.94 | 2.81 | 2.48 | 2.02 | 1.55 | 1.17 | 0.98 | 1.03 | 1.30 | 1.74 | 2.23 | 2.65 | 2.90 | 2.91 | 2.67 | 2.24 | 1.75 | 1.31 | 1.05 | 1.04 | 1.29 | 1.75 | 2.30 | 2.82 |
| 27 QUI | 3.15 | 3.20 | 2.96 | 2.48 | 1.86 | 1.27 | 0.85 | 0.70 | 0.86 | 1.28 | 1.88 | 2.49 | 2.97 | 3.19 | 3.09 | 2.70 | 2.10 | 1.48 | 0.99 | 0.76 | 0.85 | 1.26 | 1.88 | 2.56 |
| 28 SEX | 3.14 | 3.45 | 3.41 | 3.02 | 2.36 | 1.61 | 0.95 | 0.54 | 0.49 | 0.80 | 1.39 | 2.13 | 2.82 | 3.29 | 3.42 | 3.17 | 2.60 | 1.86 | 1.16 | 0.67 | 0.53 | 0.77 | 1.34 | 2.09 |
| 29 SÁB | 2.86 | 3.44 | 3.67 | 3.50 | 2.94 | 2.15 | 1.31 | 0.65 | 0.33 | 0.42 | 0.88 | 1.61 | 2.43 | 3.13 | 3.53 | 3.53 | 3.11 | 2.40 | 1.57 | 0.85 | 0.43 | 0.42 | 0.81 | 1.50 |
| 30 DOM | 2.34 | 3.12 | 3.64 | 3.77 | 3.45 | 2.76 | 1.88 | 1.04 | 0.45 | 0.26 | 0.49 | 1.09 | 1.90 | 2.72 | 3.36 | 3.64 | 3.49 | 2.94 | 2.14 | 1.29 | 0.64 | 0.33 | 0.45 | 0.95 |
| 31 SEG | 1.71 | 2.56 | 3.28 | 3.70 | 3.70 | 3.26 | 2.50 | 1.63 | 0.86 | 0.40 | 0.35 | 0.71 | 1.37 | 2.17 | 2.93 | 3.46 | 3.61 | 3.33 | 2.70 | 1.89 | 1.11 | 0.56 | 0.38 | 0.60 |

Sines

Latitude 37° 56.89' N Longitude 8° 53.27' W

Horas do Fuso: 0 (TU)

ABRIL 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 TER | 1.16 | 1.91 | 2.68 | 3.30 | 3.60 | 3.49 | 2.99 | 2.24 | 1.45 | 0.82 | 0.51 | 0.58 | 1.01 | 1.66 | 2.39 | 3.03 | 3.42 | 3.45 | 3.10 | 2.46 | 1.72 | 1.05 | 0.63 | 0.56 |
| 02 QUA | 0.83 | 1.37 | 2.03 | 2.69 | 3.18 | 3.36 | 3.19 | 2.70 | 2.04 | 1.39 | 0.92 | 0.75 | 0.90 | 1.31 | 1.88 | 2.49 | 2.99 | 3.26 | 3.21 | 2.85 | 2.29 | 1.66 | 1.13 | 0.83 |
| 03 QUI | 0.82 | 1.07 | 1.52 | 2.06 | 2.57 | 2.94 | 3.05 | 2.87 | 2.46 | 1.94 | 1.46 | 1.13 | 1.05 | 1.21 | 1.55 | 2.00 | 2.47 | 2.85 | 3.03 | 2.96 | 2.66 | 2.21 | 1.73 | 1.32 |
| 04 SEX | 1.09 | 1.08 | 1.26 | 1.58 | 1.98 | 2.37 | 2.65 | 2.73 | 2.61 | 2.33 | 1.96 | 1.62 | 1.39 | 1.33 | 1.44 | 1.67 | 2.00 | 2.35 | 2.64 | 2.80 | 2.77 | 2.57 | 2.25 | 1.89 |
| 05 SAB | 1.56 | 1.34 | 1.27 | 1.35 | 1.54 | 1.83 | 2.13 | 2.38 | 2.50 | 2.47 | 2.31 | 2.07 | 1.82 | 1.62 | 1.53 | 1.54 | 1.67 | 1.90 | 2.18 | 2.45 | 2.64 | 2.69 | 2.60 | 2.38 |
| 06 DOM | 2.08 | 1.77 | 1.52 | 1.36 | 1.33 | 1.44 | 1.66 | 1.94 | 2.21 | 2.40 | 2.47 | 2.40 | 2.22 | 1.99 | 1.76 | 1.59 | 1.52 | 1.57 | 1.76 | 2.03 | 2.33 | 2.58 | 2.72 | 2.71 |
| 07 SEG | 2.53 | 2.24 | 1.89 | 1.57 | 1.33 | 1.24 | 1.31 | 1.52 | 1.84 | 2.17 | 2.44 | 2.57 | 2.53 | 2.35 | 2.07 | 1.76 | 1.51 | 1.39 | 1.43 | 1.63 | 1.95 | 2.32 | 2.65 | 2.84 |
| 08 TER | 2.85 | 2.65 | 2.31 | 1.88 | 1.49 | 1.21 | 1.11 | 1.21 | 1.48 | 1.87 | 2.28 | 2.59 | 2.73 | 2.66 | 2.40 | 2.02 | 1.64 | 1.34 | 1.22 | 1.30 | 1.57 | 1.98 | 2.43 | 2.80 |
| 09 QUA | 3.00 | 2.96 | 2.69 | 2.25 | 1.74 | 1.31 | 1.04 | 1.00 | 1.19 | 1.57 | 2.05 | 2.50 | 2.80 | 2.88 | 2.70 | 2.33 | 1.86 | 1.42 | 1.13 | 1.07 | 1.25 | 1.63 | 2.13 | 2.63 |
| 10 QUI | 3.00 | 3.13 | 2.99 | 2.60 | 2.06 | 1.51 | 1.09 | 0.89 | 0.97 | 1.29 | 1.78 | 2.32 | 2.76 | 3.00 | 2.95 | 2.64 | 2.14 | 1.60 | 1.17 | 0.95 | 1.00 | 1.31 | 1.80 | 2.37 |
| 11 SEX | 2.87 | 3.16 | 3.18 | 2.90 | 2.39 | 1.78 | 1.23 | 0.89 | 0.83 | 1.05 | 1.51 | 2.08 | 2.63 | 3.01 | 3.11 | 2.91 | 2.45 | 1.87 | 1.31 | 0.94 | 0.84 | 1.04 | 1.48 | 2.06 |
| 12 SAB | 2.64 | 3.07 | 3.25 | 3.11 | 2.69 | 2.08 | 1.46 | 0.99 | 0.78 | 0.88 | 1.26 | 1.82 | 2.42 | 2.91 | 3.16 | 3.11 | 2.74 | 2.18 | 1.56 | 1.06 | 0.80 | 0.86 | 1.20 | 1.74 |
| 13 DOM | 2.35 | 2.88 | 3.20 | 3.22 | 2.92 | 2.38 | 1.75 | 1.18 | 0.83 | 0.79 | 1.06 | 1.56 | 2.16 | 2.73 | 3.11 | 3.20 | 2.98 | 2.48 | 1.86 | 1.27 | 0.88 | 0.78 | 0.99 | 1.45 |
| 14 SEG | 2.04 | 2.61 | 3.04 | 3.21 | 3.07 | 2.64 | 2.04 | 1.43 | 0.98 | 0.80 | 0.93 | 1.33 | 1.90 | 2.49 | 2.96 | 3.19 | 3.12 | 2.74 | 2.17 | 1.56 | 1.07 | 0.82 | 0.87 | 1.21 |
| 15 TER | 1.73 | 2.31 | 2.80 | 3.09 | 3.10 | 2.82 | 2.31 | 1.72 | 1.21 | 0.91 | 0.90 | 1.17 | 1.66 | 2.22 | 2.74 | 3.08 | 3.15 | 2.93 | 2.46 | 1.88 | 1.34 | 0.97 | 0.88 | 1.06 |
| 16 QUA | 1.47 | 2.00 | 2.50 | 2.88 | 3.03 | 2.90 | 2.52 | 2.00 | 1.49 | 1.11 | 0.97 | 1.10 | 1.46 | 1.96 | 2.47 | 2.87 | 3.07 | 3.00 | 2.68 | 2.19 | 1.65 | 1.22 | 1.00 | 1.03 |
| 17 QUI | 1.30 | 1.72 | 2.19 | 2.60 | 2.85 | 2.87 | 2.64 | 2.24 | 1.77 | 1.37 | 1.13 | 1.12 | 1.35 | 1.73 | 2.19 | 2.60 | 2.88 | 2.96 | 2.80 | 2.44 | 1.98 | 1.54 | 1.22 | 1.11 |
| 18 SEX | 1.22 | 1.51 | 1.89 | 2.28 | 2.58 | 2.73 | 2.66 | 2.41 | 2.04 | 1.66 | 1.37 | 1.25 | 1.33 | 1.58 | 1.93 | 2.30 | 2.62 | 2.81 | 2.80 | 2.60 | 2.26 | 1.87 | 1.53 | 1.31 |
| 19 SAB | 1.27 | 1.40 | 1.65 | 1.97 | 2.27 | 2.49 | 2.57 | 2.48 | 2.25 | 1.95 | 1.66 | 1.47 | 1.42 | 1.51 | 1.73 | 2.01 | 2.31 | 2.55 | 2.68 | 2.65 | 2.47 | 2.19 | 1.87 | 1.60 |
| 20 DOM | 1.43 | 1.40 | 1.50 | 1.69 | 1.94 | 2.18 | 2.37 | 2.43 | 2.37 | 2.20 | 1.98 | 1.76 | 1.61 | 1.55 | 1.61 | 1.77 | 1.98 | 2.23 | 2.45 | 2.57 | 2.57 | 2.45 | 2.23 | 1.96 |
| 21 SEG | 1.70 | 1.52 | 1.45 | 1.49 | 1.62 | 1.83 | 2.07 | 2.27 | 2.38 | 2.38 | 2.28 | 2.10 | 1.89 | 1.72 | 1.61 | 1.60 | 1.69 | 1.87 | 2.12 | 2.36 | 2.54 | 2.61 | 2.54 | 2.35 |
| 22 TER | 2.07 | 1.78 | 1.53 | 1.39 | 1.37 | 1.48 | 1.70 | 1.98 | 2.25 | 2.44 | 2.51 | 2.45 | 2.26 | 2.00 | 1.74 | 1.55 | 1.46 | 1.53 | 1.73 | 2.02 | 2.35 | 2.62 | 2.75 | 2.71 |
| 23 QUA | 2.50 | 2.16 | 1.78 | 1.44 | 1.22 | 1.16 | 1.29 | 1.58 | 1.96 | 2.34 | 2.62 | 2.73 | 2.65 | 2.39 | 2.03 | 1.65 | 1.37 | 1.24 | 1.32 | 1.59 | 2.00 | 2.44 | 2.80 | 2.98 |
| 24 QUI | 2.92 | 2.64 | 2.19 | 1.68 | 1.24 | 0.97 | 0.93 | 1.14 | 1.54 | 2.05 | 2.54 | 2.88 | 2.99 | 2.83 | 2.45 | 1.95 | 1.46 | 1.10 | 0.99 | 1.14 | 1.53 | 2.06 | 2.62 | 3.05 |
| 25 SEX | 3.24 | 3.11 | 2.71 | 2.12 | 1.49 | 0.98 | 0.71 | 0.74 | 1.06 | 1.61 | 2.24 | 2.81 | 3.17 | 3.22 | 2.94 | 2.41 | 1.77 | 1.18 | 0.82 | 0.75 | 1.02 | 1.54 | 2.21 | 2.86 |
| 26 SAB | 3.32 | 3.45 | 3.23 | 2.69 | 1.97 | 1.24 | 0.71 | 0.49 | 0.63 | 1.10 | 1.78 | 2.51 | 3.11 | 3.42 | 3.36 | 2.94 | 2.27 | 1.52 | 0.90 | 0.56 | 0.60 | 0.99 | 1.64 | 2.41 |
| 27 DOM | 3.10 | 3.53 | 3.58 | 3.24 | 2.57 | 1.75 | 1.00 | 0.50 | 0.38 | 0.65 | 1.24 | 2.02 | 2.79 | 3.36 | 3.58 | 3.40 | 2.84 | 2.06 | 1.26 | 0.66 | 0.40 | 0.55 | 1.05 | 1.79 |
| 28 SEG | 2.59 | 3.27 | 3.63 | 3.59 | 3.13 | 2.38 | 1.53 | 0.82 | 0.41 | 0.40 | 0.79 | 1.47 | 2.28 | 3.02 | 3.52 | 3.63 | 3.32 | 2.66 | 1.84 | 1.06 | 0.53 | 0.36 | 0.60 | 1.18 |
| 29 TER | 1.94 | 2.73 | 3.33 | 3.61 | 3.46 | 2.93 | 2.16 | 1.36 | 0.74 | 0.45 | 0.56 | 1.02 | 1.72 | 2.50 | 3.16 | 3.55 | 3.55 | 3.15 | 2.46 | 1.66 | 0.95 | 0.52 | 0.45 | 0.75 |
| 30 QUA | 1.33 | 2.06 | 2.77 | 3.28 | 3.45 | 3.24 | 2.70 | 1.98 | 1.27 | 0.78 | 0.61 | 0.80 | 1.29 | 1.95 | 2.63 | 3.19 | 3.47 | 3.38 | 2.95 | 2.29 | 1.57 | 0.96 | 0.63 | 0.63 |

Sines

Latitude 37° 56.89' N Longitude 8° 53.27' W

Horas do Fuso: 0 (TU)

MAIO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 01 QUI | 0.94 | 1.47 | 2.11 | 2.71 | 3.11 | 3.21 | 2.97 | 2.47 | 1.85 | 1.29 | 0.92 | 0.85 | 1.08 | 1.53 | 2.10 | 2.67 | 3.11 | 3.30 | 3.17 | 2.76 | 2.18 | 1.57 | 1.08 | 0.82 |
| 02 SEX | 0.85 | 1.12 | 1.57 | 2.09 | 2.57 | 2.88 | 2.93 | 2.72 | 2.31 | 1.82 | 1.39 | 1.14 | 1.12 | 1.32 | 1.69 | 2.15 | 2.61 | 2.95 | 3.08 | 2.96 | 2.62 | 2.15 | 1.66 | 1.26 |
| 03 SÁB | 1.05 | 1.06 | 1.26 | 1.59 | 2.00 | 2.39 | 2.64 | 2.69 | 2.53 | 2.23 | 1.87 | 1.55 | 1.36 | 1.34 | 1.48 | 1.76 | 2.12 | 2.49 | 2.77 | 2.89 | 2.82 | 2.56 | 2.19 | 1.79 |
| 04 DOM | 1.45 | 1.25 | 1.21 | 1.32 | 1.57 | 1.89 | 2.21 | 2.44 | 2.53 | 2.45 | 2.24 | 1.97 | 1.71 | 1.53 | 1.47 | 1.54 | 1.74 | 2.03 | 2.35 | 2.61 | 2.76 | 2.75 | 2.57 | 2.28 |
| 05 SEG | 1.93 | 1.60 | 1.37 | 1.27 | 1.32 | 1.51 | 1.79 | 2.09 | 2.34 | 2.47 | 2.46 | 2.31 | 2.08 | 1.82 | 1.61 | 1.50 | 1.51 | 1.67 | 1.92 | 2.24 | 2.52 | 2.72 | 2.76 | 2.63 |
| 06 TER | 2.36 | 2.01 | 1.67 | 1.40 | 1.26 | 1.28 | 1.45 | 1.74 | 2.07 | 2.36 | 2.53 | 2.54 | 2.40 | 2.14 | 1.84 | 1.58 | 1.43 | 1.42 | 1.57 | 1.85 | 2.20 | 2.53 | 2.76 | 2.82 |
| 07 QUA | 2.69 | 2.40 | 2.01 | 1.63 | 1.33 | 1.19 | 1.23 | 1.44 | 1.77 | 2.15 | 2.47 | 2.66 | 2.65 | 2.46 | 2.14 | 1.77 | 1.47 | 1.31 | 1.32 | 1.51 | 1.85 | 2.24 | 2.61 | 2.85 |
| 08 QUI | 2.88 | 2.71 | 2.35 | 1.91 | 1.49 | 1.20 | 1.10 | 1.21 | 1.50 | 1.90 | 2.33 | 2.66 | 2.80 | 2.72 | 2.44 | 2.04 | 1.62 | 1.30 | 1.17 | 1.25 | 1.52 | 1.93 | 2.38 | 2.75 |
| 09 SEX | 2.95 | 2.92 | 2.65 | 2.22 | 1.73 | 1.31 | 1.06 | 1.04 | 1.26 | 1.65 | 2.12 | 2.57 | 2.86 | 2.92 | 2.73 | 2.34 | 1.86 | 1.41 | 1.12 | 1.06 | 1.24 | 1.61 | 2.09 | 2.56 |
| 10 SÁB | 2.90 | 3.03 | 2.89 | 2.51 | 2.01 | 1.50 | 1.11 | 0.96 | 1.06 | 1.39 | 1.88 | 2.39 | 2.81 | 3.02 | 2.96 | 2.64 | 2.15 | 1.62 | 1.20 | 0.98 | 1.03 | 1.32 | 1.77 | 2.30 |
| 11 DOM | 2.75 | 3.02 | 3.03 | 2.77 | 2.30 | 1.75 | 1.26 | 0.96 | 0.93 | 1.17 | 1.62 | 2.16 | 2.67 | 3.01 | 3.10 | 2.90 | 2.46 | 1.91 | 1.38 | 1.02 | 0.91 | 1.08 | 1.47 | 1.99 |
| 12 SEG | 2.51 | 2.91 | 3.07 | 2.95 | 2.57 | 2.03 | 1.48 | 1.07 | 0.89 | 1.01 | 1.37 | 1.90 | 2.45 | 2.91 | 3.14 | 3.08 | 2.75 | 2.22 | 1.64 | 1.16 | 0.90 | 0.92 | 1.21 | 1.69 |
| 13 TER | 2.23 | 2.70 | 3.00 | 3.03 | 2.78 | 2.31 | 1.76 | 1.26 | 0.96 | 0.93 | 1.17 | 1.63 | 2.19 | 2.71 | 3.07 | 3.16 | 2.97 | 2.53 | 1.96 | 1.41 | 1.02 | 0.88 | 1.03 | 1.40 |
| 14 QUA | 1.92 | 2.43 | 2.83 | 3.00 | 2.90 | 2.55 | 2.04 | 1.52 | 1.12 | 0.95 | 1.05 | 1.40 | 1.91 | 2.45 | 2.89 | 3.13 | 3.09 | 2.78 | 2.28 | 1.71 | 1.23 | 0.96 | 0.94 | 1.19 |
| 15 QUI | 1.62 | 2.12 | 2.57 | 2.87 | 2.92 | 2.72 | 2.31 | 1.81 | 1.35 | 1.07 | 1.03 | 1.24 | 1.66 | 2.16 | 2.64 | 2.98 | 3.10 | 2.95 | 2.57 | 2.05 | 1.53 | 1.15 | 0.98 | 1.07 |
| 16 SEX | 1.37 | 1.81 | 2.27 | 2.64 | 2.83 | 2.79 | 2.52 | 2.10 | 1.64 | 1.28 | 1.11 | 1.17 | 1.45 | 1.87 | 2.34 | 2.74 | 2.99 | 3.00 | 2.78 | 2.36 | 1.88 | 1.43 | 1.14 | 1.07 |
| 17 SÁB | 1.22 | 1.54 | 1.94 | 2.34 | 2.63 | 2.74 | 2.64 | 2.34 | 1.95 | 1.57 | 1.30 | 1.21 | 1.34 | 1.63 | 2.02 | 2.43 | 2.76 | 2.92 | 2.87 | 2.62 | 2.22 | 1.78 | 1.41 | 1.19 |
| 18 DOM | 1.17 | 1.34 | 1.64 | 2.00 | 2.34 | 2.58 | 2.64 | 2.51 | 2.24 | 1.89 | 1.58 | 1.37 | 1.33 | 1.47 | 1.74 | 2.09 | 2.44 | 2.71 | 2.84 | 2.76 | 2.52 | 2.15 | 1.76 | 1.44 |
| 19 SEG | 1.26 | 1.25 | 1.40 | 1.67 | 1.99 | 2.30 | 2.51 | 2.56 | 2.45 | 2.22 | 1.92 | 1.64 | 1.46 | 1.42 | 1.53 | 1.76 | 2.07 | 2.39 | 2.65 | 2.77 | 2.71 | 2.50 | 2.16 | 1.80 |
| 20 TER | 1.48 | 1.29 | 1.26 | 1.39 | 1.63 | 1.94 | 2.25 | 2.47 | 2.56 | 2.48 | 2.28 | 2.00 | 1.72 | 1.51 | 1.44 | 1.51 | 1.71 | 2.01 | 2.34 | 2.61 | 2.76 | 2.74 | 2.55 | 2.22 |
| 21 QUA | 1.84 | 1.50 | 1.27 | 1.20 | 1.30 | 1.54 | 1.88 | 2.23 | 2.50 | 2.63 | 2.59 | 2.39 | 2.09 | 1.76 | 1.50 | 1.37 | 1.40 | 1.60 | 1.92 | 2.30 | 2.63 | 2.83 | 2.85 | 2.65 |
| 22 QUI | 2.30 | 1.87 | 1.46 | 1.18 | 1.08 | 1.18 | 1.45 | 1.85 | 2.27 | 2.61 | 2.79 | 2.75 | 2.52 | 2.15 | 1.74 | 1.40 | 1.22 | 1.24 | 1.47 | 1.85 | 2.30 | 2.71 | 2.97 | 2.99 |
| 23 SEX | 2.77 | 2.36 | 1.84 | 1.36 | 1.03 | 0.92 | 1.05 | 1.39 | 1.87 | 2.38 | 2.79 | 2.99 | 2.93 | 2.62 | 2.15 | 1.64 | 1.23 | 1.02 | 1.06 | 1.35 | 1.82 | 2.36 | 2.85 | 3.14 |
| 24 SÁB | 3.15 | 2.87 | 2.36 | 1.76 | 1.21 | 0.85 | 0.76 | 0.96 | 1.39 | 1.97 | 2.56 | 3.01 | 3.19 | 3.07 | 2.66 | 2.08 | 1.48 | 1.02 | 0.81 | 0.90 | 1.27 | 1.84 | 2.47 | 3.00 |
| 25 DOM | 3.30 | 3.27 | 2.91 | 2.32 | 1.64 | 1.04 | 0.69 | 0.65 | 0.93 | 1.47 | 2.14 | 2.78 | 3.23 | 3.37 | 3.15 | 2.64 | 1.96 | 1.30 | 0.81 | 0.64 | 0.79 | 1.25 | 1.90 | 2.59 |
| 26 SEG | 3.14 | 3.41 | 3.32 | 2.88 | 2.21 | 1.49 | 0.89 | 0.58 | 0.62 | 0.99 | 1.61 | 2.34 | 2.99 | 3.41 | 3.47 | 3.16 | 2.56 | 1.81 | 1.12 | 0.65 | 0.53 | 0.75 | 1.28 | 1.98 |
| 27 TER | 2.69 | 3.23 | 3.45 | 3.29 | 2.79 | 2.08 | 1.35 | 0.79 | 0.55 | 0.67 | 1.12 | 1.79 | 2.53 | 3.16 | 3.51 | 3.49 | 3.10 | 2.43 | 1.66 | 0.99 | 0.57 | 0.50 | 0.79 | 1.35 |
| 28 QUA | 2.06 | 2.75 | 3.24 | 3.40 | 3.18 | 2.64 | 1.93 | 1.25 | 0.76 | 0.61 | 0.81 | 1.30 | 1.98 | 2.69 | 3.25 | 3.53 | 3.43 | 2.99 | 2.30 | 1.55 | 0.92 | 0.57 | 0.56 | 0.88 |
| 29 QUI | 1.45 | 2.13 | 2.76 | 3.18 | 3.27 | 3.01 | 2.47 | 1.81 | 1.20 | 0.81 | 0.74 | 0.99 | 1.50 | 2.14 | 2.78 | 3.27 | 3.46 | 3.31 | 2.84 | 2.18 | 1.48 | 0.93 | 0.65 | 0.69 |
| 30 SEX | 1.02 | 1.55 | 2.16 | 2.71 | 3.05 | 3.09 | 2.81 | 2.31 | 1.72 | 1.21 | 0.92 | 0.92 | 1.20 | 1.67 | 2.25 | 2.81 | 3.21 | 3.33 | 3.14 | 2.69 | 2.09 | 1.48 | 1.01 | 0.79 |
| 31 SÁB | 0.86 | 1.16 | 1.63 | 2.16 | 2.62 | 2.89 | 2.89 | 2.62 | 2.18 | 1.69 | 1.28 | 1.08 | 1.11 | 1.38 | 1.80 | 2.30 | 2.77 | 3.09 | 3.17 | 2.97 | 2.57 | 2.04 | 1.52 | 1.13 |

Sines

Latitude 37° 56.89' N Longitude 8° 53.27' W

Horas do Fuso: 0 (TU)

JUNHO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 DOM | 0.96 | 1.03 | 1.29 | 1.69 | 2.14 | 2.52 | 2.72 | 2.70 | 2.47 | 2.10 | 1.70 | 1.38 | 1.23 | 1.28 | 1.51 | 1.88 | 2.30 | 2.69 | 2.95 | 3.00 | 2.83 | 2.47 | 2.02 | 1.59 |
| 02 SEG | 1.26 | 1.12 | 1.17 | 1.39 | 1.73 | 2.10 | 2.42 | 2.59 | 2.57 | 2.38 | 2.08 | 1.75 | 1.49 | 1.36 | 1.40 | 1.59 | 1.90 | 2.26 | 2.59 | 2.81 | 2.86 | 2.72 | 2.42 | 2.03 |
| 03 TER | 1.65 | 1.37 | 1.24 | 1.27 | 1.45 | 1.74 | 2.07 | 2.35 | 2.51 | 2.51 | 2.36 | 2.10 | 1.81 | 1.57 | 1.44 | 1.46 | 1.61 | 1.88 | 2.20 | 2.51 | 2.72 | 2.77 | 2.66 | 2.39 |
| 04 QUA | 2.04 | 1.70 | 1.43 | 1.29 | 1.32 | 1.48 | 1.76 | 2.07 | 2.34 | 2.51 | 2.52 | 2.38 | 2.13 | 1.84 | 1.60 | 1.45 | 1.45 | 1.59 | 1.84 | 2.16 | 2.46 | 2.67 | 2.74 | 2.63 |
| 05 QUI | 2.37 | 2.03 | 1.69 | 1.42 | 1.29 | 1.32 | 1.50 | 1.79 | 2.12 | 2.40 | 2.57 | 2.58 | 2.42 | 2.15 | 1.84 | 1.57 | 1.41 | 1.40 | 1.55 | 1.82 | 2.15 | 2.46 | 2.68 | 2.74 |
| 06 SEX | 2.61 | 2.34 | 1.98 | 1.62 | 1.36 | 1.25 | 1.31 | 1.54 | 1.86 | 2.22 | 2.52 | 2.68 | 2.66 | 2.45 | 2.13 | 1.77 | 1.48 | 1.32 | 1.34 | 1.52 | 1.83 | 2.19 | 2.52 | 2.73 |
| 07 SÁB | 2.76 | 2.59 | 2.27 | 1.88 | 1.51 | 1.26 | 1.19 | 1.32 | 1.61 | 1.99 | 2.38 | 2.68 | 2.80 | 2.71 | 2.44 | 2.05 | 1.65 | 1.35 | 1.22 | 1.28 | 1.52 | 1.89 | 2.28 | 2.62 |
| 08 DOM | 2.80 | 2.77 | 2.54 | 2.16 | 1.73 | 1.36 | 1.15 | 1.16 | 1.36 | 1.73 | 2.17 | 2.58 | 2.85 | 2.90 | 2.72 | 2.36 | 1.91 | 1.49 | 1.21 | 1.12 | 1.26 | 1.58 | 2.00 | 2.42 |
| 09 SEG | 2.73 | 2.85 | 2.75 | 2.44 | 2.00 | 1.55 | 1.21 | 1.07 | 1.17 | 1.47 | 1.92 | 2.39 | 2.78 | 2.99 | 2.95 | 2.67 | 2.22 | 1.73 | 1.31 | 1.08 | 1.07 | 1.29 | 1.69 | 2.15 |
| 10 TER | 2.57 | 2.83 | 2.87 | 2.67 | 2.28 | 1.81 | 1.37 | 1.09 | 1.04 | 1.24 | 1.64 | 2.14 | 2.62 | 2.96 | 3.08 | 2.92 | 2.54 | 2.03 | 1.53 | 1.14 | 0.98 | 1.07 | 1.39 | 1.84 |
| 11 QUA | 2.32 | 2.71 | 2.90 | 2.84 | 2.55 | 2.09 | 1.60 | 1.21 | 1.01 | 1.07 | 1.38 | 1.85 | 2.38 | 2.83 | 3.09 | 3.10 | 2.83 | 2.36 | 1.82 | 1.33 | 1.01 | 0.94 | 1.14 | 1.53 |
| 12 QUI | 2.02 | 2.49 | 2.82 | 2.92 | 2.76 | 2.38 | 1.89 | 1.41 | 1.09 | 1.00 | 1.17 | 1.56 | 2.08 | 2.60 | 2.99 | 3.16 | 3.05 | 2.68 | 2.16 | 1.60 | 1.16 | 0.93 | 0.97 | 1.25 |
| 13 SEX | 1.70 | 2.20 | 2.63 | 2.88 | 2.88 | 2.63 | 2.19 | 1.69 | 1.27 | 1.03 | 1.05 | 1.31 | 1.77 | 2.29 | 2.77 | 3.09 | 3.15 | 2.94 | 2.50 | 1.95 | 1.42 | 1.05 | 0.91 | 1.04 |
| 14 SÁB | 1.39 | 1.86 | 2.35 | 2.72 | 2.89 | 2.80 | 2.48 | 2.02 | 1.54 | 1.18 | 1.04 | 1.15 | 1.48 | 1.95 | 2.46 | 2.89 | 3.12 | 3.09 | 2.80 | 2.32 | 1.78 | 1.29 | 0.99 | 0.95 |
| 15 DOM | 1.15 | 1.53 | 2.00 | 2.45 | 2.76 | 2.86 | 2.70 | 2.34 | 1.88 | 1.45 | 1.16 | 1.09 | 1.27 | 1.63 | 2.10 | 2.57 | 2.94 | 3.10 | 3.00 | 2.66 | 2.17 | 1.65 | 1.22 | 0.99 |
| 16 SEG | 1.01 | 1.25 | 1.64 | 2.10 | 2.50 | 2.76 | 2.80 | 2.60 | 2.23 | 1.80 | 1.41 | 1.19 | 1.17 | 1.38 | 1.74 | 2.19 | 2.63 | 2.94 | 3.05 | 2.90 | 2.55 | 2.07 | 1.58 | 1.20 |
| 17 TER | 1.02 | 1.08 | 1.33 | 1.72 | 2.14 | 2.52 | 2.74 | 2.74 | 2.53 | 2.18 | 1.77 | 1.43 | 1.23 | 1.25 | 1.45 | 1.80 | 2.23 | 2.63 | 2.91 | 2.98 | 2.83 | 2.47 | 2.01 | 1.55 |
| 18 QUA | 1.21 | 1.06 | 1.13 | 1.37 | 1.74 | 2.16 | 2.51 | 2.71 | 2.71 | 2.52 | 2.18 | 1.79 | 1.46 | 1.28 | 1.28 | 1.47 | 1.80 | 2.21 | 2.60 | 2.87 | 2.94 | 2.79 | 2.45 | 2.00 |
| 19 QUI | 1.56 | 1.22 | 1.08 | 1.14 | 1.37 | 1.74 | 2.15 | 2.51 | 2.72 | 2.74 | 2.55 | 2.22 | 1.83 | 1.49 | 1.28 | 1.27 | 1.44 | 1.76 | 2.16 | 2.56 | 2.84 | 2.93 | 2.80 | 2.47 |
| 20 SEX | 2.02 | 1.57 | 1.22 | 1.06 | 1.11 | 1.34 | 1.72 | 2.15 | 2.54 | 2.78 | 2.81 | 2.63 | 2.29 | 1.87 | 1.49 | 1.24 | 1.20 | 1.35 | 1.68 | 2.10 | 2.53 | 2.85 | 2.97 | 2.85 |
| 21 SÁB | 2.51 | 2.05 | 1.57 | 1.20 | 1.01 | 1.05 | 1.30 | 1.70 | 2.18 | 2.61 | 2.88 | 2.93 | 2.74 | 2.35 | 1.88 | 1.45 | 1.16 | 1.08 | 1.23 | 1.58 | 2.04 | 2.52 | 2.88 | 3.03 |
| 22 DOM | 2.92 | 2.57 | 2.07 | 1.55 | 1.14 | 0.94 | 0.98 | 1.26 | 1.71 | 2.24 | 2.72 | 3.03 | 3.07 | 2.84 | 2.40 | 1.86 | 1.37 | 1.03 | 0.94 | 1.10 | 1.49 | 2.00 | 2.54 | 2.94 |
| 23 SEG | 3.11 | 2.98 | 2.60 | 2.06 | 1.50 | 1.06 | 0.85 | 0.92 | 1.25 | 1.76 | 2.35 | 2.87 | 3.19 | 3.21 | 2.93 | 2.42 | 1.81 | 1.25 | 0.89 | 0.79 | 0.99 | 1.42 | 2.00 | 2.58 |
| 24 TER | 3.01 | 3.18 | 3.03 | 2.60 | 2.01 | 1.42 | 0.97 | 0.78 | 0.89 | 1.27 | 1.85 | 2.49 | 3.03 | 3.33 | 3.31 | 2.97 | 2.39 | 1.72 | 1.12 | 0.75 | 0.68 | 0.92 | 1.41 | 2.03 |
| 25 QUA | 2.64 | 3.08 | 3.22 | 3.03 | 2.56 | 1.93 | 1.32 | 0.88 | 0.73 | 0.90 | 1.35 | 1.98 | 2.65 | 3.18 | 3.45 | 3.37 | 2.95 | 2.32 | 1.61 | 1.00 | 0.65 | 0.62 | 0.91 | 1.45 |
| 26 QUI | 2.10 | 2.71 | 3.12 | 3.22 | 2.97 | 2.46 | 1.81 | 1.21 | 0.82 | 0.74 | 0.98 | 1.48 | 2.14 | 2.79 | 3.29 | 3.50 | 3.35 | 2.88 | 2.20 | 1.49 | 0.91 | 0.61 | 0.64 | 0.98 |
| 27 SEX | 1.54 | 2.19 | 2.77 | 3.12 | 3.15 | 2.86 | 2.31 | 1.68 | 1.13 | 0.81 | 0.80 | 1.11 | 1.64 | 2.29 | 2.91 | 3.35 | 3.48 | 3.26 | 2.75 | 2.06 | 1.38 | 0.87 | 0.64 | 0.73 |
| 28 SÁB | 1.11 | 1.67 | 2.28 | 2.79 | 3.07 | 3.03 | 2.69 | 2.15 | 1.56 | 1.08 | 0.86 | 0.93 | 1.28 | 1.82 | 2.43 | 2.98 | 3.33 | 3.38 | 3.10 | 2.58 | 1.92 | 1.31 | 0.88 | 0.74 |
| 29 DOM | 0.89 | 1.28 | 1.81 | 2.36 | 2.79 | 2.97 | 2.86 | 2.50 | 1.99 | 1.47 | 1.09 | 0.96 | 1.10 | 1.46 | 1.97 | 2.52 | 2.99 | 3.25 | 3.22 | 2.91 | 2.39 | 1.80 | 1.28 | 0.96 |
| 30 SEG | 0.89 | 1.08 | 1.46 | 1.94 | 2.41 | 2.74 | 2.84 | 2.68 | 2.32 | 1.86 | 1.43 | 1.15 | 1.10 | 1.28 | 1.64 | 2.10 | 2.57 | 2.94 | 3.11 | 3.02 | 2.70 | 2.23 | 1.72 | 1.30 |

Sines

Latitude 37° 56.89' N Longitude 8° 53.27' W

Horas do Fuso: 0 (TU)

JULHO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 TER | 1.07 | 1.07 | 1.28 | 1.63 | 2.04 | 2.42 | 2.66 | 2.70 | 2.52 | 2.19 | 1.79 | 1.44 | 1.25 | 1.25 | 1.44 | 1.77 | 2.17 | 2.56 | 2.84 | 2.94 | 2.82 | 2.52 | 2.10 | 1.68 |
| 02 QUA | 1.35 | 1.20 | 1.24 | 1.44 | 1.75 | 2.10 | 2.41 | 2.58 | 2.58 | 2.40 | 2.11 | 1.77 | 1.50 | 1.36 | 1.38 | 1.56 | 1.85 | 2.19 | 2.51 | 2.72 | 2.78 | 2.65 | 2.38 | 2.02 |
| 03 QUI | 1.67 | 1.42 | 1.31 | 1.36 | 1.55 | 1.83 | 2.13 | 2.39 | 2.52 | 2.51 | 2.35 | 2.09 | 1.80 | 1.57 | 1.45 | 1.47 | 1.62 | 1.87 | 2.16 | 2.43 | 2.61 | 2.65 | 2.54 | 2.30 |
| 04 SEX | 1.99 | 1.69 | 1.47 | 1.38 | 1.43 | 1.61 | 1.86 | 2.14 | 2.38 | 2.51 | 2.51 | 2.36 | 2.12 | 1.85 | 1.62 | 1.49 | 1.49 | 1.62 | 1.84 | 2.11 | 2.36 | 2.54 | 2.58 | 2.49 |
| 05 SÁB | 2.27 | 1.98 | 1.70 | 1.49 | 1.40 | 1.45 | 1.62 | 1.88 | 2.17 | 2.41 | 2.56 | 2.56 | 2.41 | 2.16 | 1.88 | 1.63 | 1.48 | 1.46 | 1.57 | 1.79 | 2.07 | 2.33 | 2.52 | 2.58 |
| 06 DOM | 2.48 | 2.26 | 1.97 | 1.68 | 1.46 | 1.36 | 1.42 | 1.62 | 1.91 | 2.23 | 2.50 | 2.65 | 2.64 | 2.47 | 2.19 | 1.86 | 1.58 | 1.40 | 1.38 | 1.50 | 1.75 | 2.06 | 2.35 | 2.56 |
| 07 SEG | 2.61 | 2.50 | 2.25 | 1.93 | 1.61 | 1.38 | 1.30 | 1.39 | 1.64 | 1.98 | 2.35 | 2.64 | 2.78 | 2.73 | 2.50 | 2.16 | 1.78 | 1.46 | 1.28 | 1.28 | 1.45 | 1.75 | 2.11 | 2.44 |
| 08 TER | 2.64 | 2.67 | 2.52 | 2.21 | 1.84 | 1.49 | 1.26 | 1.22 | 1.38 | 1.70 | 2.11 | 2.51 | 2.81 | 2.91 | 2.79 | 2.49 | 2.07 | 1.64 | 1.30 | 1.14 | 1.19 | 1.44 | 1.82 | 2.23 |
| 09 QUA | 2.57 | 2.75 | 2.73 | 2.49 | 2.12 | 1.69 | 1.33 | 1.14 | 1.17 | 1.41 | 1.82 | 2.29 | 2.72 | 2.98 | 3.01 | 2.80 | 2.40 | 1.90 | 1.44 | 1.12 | 1.02 | 1.15 | 1.49 | 1.94 |
| 10 QUI | 2.39 | 2.73 | 2.86 | 2.75 | 2.42 | 1.96 | 1.51 | 1.17 | 1.04 | 1.16 | 1.51 | 2.00 | 2.52 | 2.93 | 3.13 | 3.06 | 2.74 | 2.24 | 1.69 | 1.22 | 0.95 | 0.94 | 1.18 | 1.61 |
| 11 SEX | 2.12 | 2.59 | 2.88 | 2.93 | 2.71 | 2.28 | 1.77 | 1.31 | 1.01 | 0.98 | 1.21 | 1.66 | 2.22 | 2.75 | 3.12 | 3.23 | 3.05 | 2.61 | 2.03 | 1.45 | 1.01 | 0.82 | 0.92 | 1.27 |
| 12 SÁB | 1.78 | 2.33 | 2.77 | 2.99 | 2.94 | 2.61 | 2.11 | 1.56 | 1.12 | 0.91 | 0.98 | 1.33 | 1.86 | 2.45 | 2.96 | 3.26 | 3.26 | 2.97 | 2.43 | 1.80 | 1.23 | 0.85 | 0.76 | 0.97 |
| 13 DOM | 1.42 | 1.98 | 2.53 | 2.92 | 3.05 | 2.89 | 2.47 | 1.91 | 1.37 | 0.99 | 0.87 | 1.06 | 1.49 | 2.06 | 2.65 | 3.12 | 3.33 | 3.23 | 2.82 | 2.22 | 1.58 | 1.05 | 0.76 | 0.78 |
| 14 SEG | 1.09 | 1.59 | 2.17 | 2.68 | 3.00 | 3.04 | 2.78 | 2.30 | 1.73 | 1.22 | 0.92 | 0.91 | 1.18 | 1.66 | 2.25 | 2.81 | 3.20 | 3.32 | 3.12 | 2.65 | 2.02 | 1.40 | 0.94 | 0.75 |
| 15 TER | 0.87 | 1.23 | 1.76 | 2.32 | 2.78 | 3.02 | 2.97 | 2.64 | 2.14 | 1.59 | 1.15 | 0.93 | 1.00 | 1.32 | 1.82 | 2.39 | 2.89 | 3.21 | 3.24 | 2.97 | 2.47 | 1.86 | 1.29 | 0.92 |
| 16 QUA | 0.82 | 0.99 | 1.39 | 1.90 | 2.41 | 2.81 | 2.98 | 2.87 | 2.52 | 2.02 | 1.52 | 1.15 | 1.00 | 1.12 | 1.45 | 1.93 | 2.45 | 2.89 | 3.14 | 3.11 | 2.82 | 2.33 | 1.76 | 1.27 |
| 17 QUI | 0.97 | 0.93 | 1.13 | 1.51 | 1.99 | 2.45 | 2.78 | 2.90 | 2.77 | 2.43 | 1.97 | 1.52 | 1.20 | 1.10 | 1.22 | 1.54 | 1.97 | 2.44 | 2.83 | 3.02 | 2.98 | 2.69 | 2.24 | 1.74 |
| 18 SEX | 1.31 | 1.06 | 1.04 | 1.23 | 1.58 | 2.01 | 2.43 | 2.73 | 2.83 | 2.71 | 2.40 | 1.99 | 1.58 | 1.29 | 1.19 | 1.29 | 1.56 | 1.94 | 2.36 | 2.71 | 2.90 | 2.87 | 2.62 | 2.22 |
| 19 SÁB | 1.78 | 1.39 | 1.16 | 1.13 | 1.29 | 1.60 | 1.99 | 2.39 | 2.68 | 2.80 | 2.71 | 2.44 | 2.06 | 1.67 | 1.38 | 1.24 | 1.28 | 1.50 | 1.84 | 2.23 | 2.58 | 2.79 | 2.81 | 2.62 |
| 20 DOM | 2.27 | 1.86 | 1.48 | 1.24 | 1.17 | 1.29 | 1.56 | 1.95 | 2.35 | 2.67 | 2.83 | 2.79 | 2.55 | 2.17 | 1.76 | 1.42 | 1.22 | 1.21 | 1.38 | 1.70 | 2.10 | 2.48 | 2.75 | 2.82 |
| 21 SEG | 2.67 | 2.35 | 1.94 | 1.54 | 1.25 | 1.14 | 1.23 | 1.50 | 1.90 | 2.35 | 2.73 | 2.94 | 2.92 | 2.68 | 2.28 | 1.81 | 1.40 | 1.13 | 1.07 | 1.22 | 1.56 | 2.00 | 2.45 | 2.77 |
| 22 TER | 2.89 | 2.76 | 2.43 | 1.99 | 1.53 | 1.19 | 1.05 | 1.14 | 1.44 | 1.90 | 2.41 | 2.85 | 3.09 | 3.08 | 2.81 | 2.34 | 1.80 | 1.31 | 0.99 | 0.91 | 1.08 | 1.46 | 1.97 | 2.48 |
| 23 QUA | 2.86 | 2.99 | 2.85 | 2.48 | 1.97 | 1.46 | 1.08 | 0.94 | 1.06 | 1.42 | 1.95 | 2.53 | 3.01 | 3.26 | 3.22 | 2.88 | 2.34 | 1.71 | 1.17 | 0.82 | 0.76 | 0.98 | 1.44 | 2.02 |
| 24 QUI | 2.59 | 2.97 | 3.09 | 2.89 | 2.45 | 1.87 | 1.32 | 0.94 | 0.83 | 1.02 | 1.47 | 2.08 | 2.71 | 3.20 | 3.41 | 3.30 | 2.88 | 2.25 | 1.56 | 1.00 | 0.68 | 0.68 | 0.98 | 1.52 |
| 25 SEX | 2.15 | 2.73 | 3.09 | 3.13 | 2.86 | 2.33 | 1.71 | 1.15 | 0.81 | 0.79 | 1.07 | 1.60 | 2.26 | 2.90 | 3.35 | 3.50 | 3.29 | 2.77 | 2.08 | 1.38 | 0.84 | 0.60 | 0.69 | 1.09 |
| 26 SÁB | 1.68 | 2.33 | 2.87 | 3.15 | 3.10 | 2.73 | 2.15 | 1.51 | 0.99 | 0.75 | 0.82 | 1.21 | 1.80 | 2.47 | 3.07 | 3.44 | 3.48 | 3.17 | 2.58 | 1.86 | 1.20 | 0.75 | 0.61 | 0.82 |
| 27 DOM | 1.28 | 1.89 | 2.51 | 2.97 | 3.14 | 2.98 | 2.53 | 1.92 | 1.32 | 0.89 | 0.76 | 0.96 | 1.41 | 2.03 | 2.67 | 3.18 | 3.44 | 3.36 | 2.95 | 2.33 | 1.64 | 1.06 | 0.74 | 0.73 |
| 28 SEG | 1.03 | 1.53 | 2.12 | 2.66 | 3.00 | 3.04 | 2.78 | 2.28 | 1.70 | 1.18 | 0.88 | 0.88 | 1.16 | 1.66 | 2.25 | 2.81 | 3.21 | 3.33 | 3.14 | 2.68 | 2.07 | 1.46 | 1.01 | 0.83 |
| 29 TER | 0.94 | 1.29 | 1.79 | 2.31 | 2.74 | 2.94 | 2.87 | 2.54 | 2.05 | 1.53 | 1.13 | 0.96 | 1.07 | 1.40 | 1.89 | 2.41 | 2.87 | 3.13 | 3.13 | 2.86 | 2.39 | 1.84 | 1.35 | 1.04 |
| 30 QUA | 0.99 | 1.18 | 1.55 | 2.00 | 2.44 | 2.74 | 2.83 | 2.67 | 2.32 | 1.87 | 1.44 | 1.17 | 1.11 | 1.28 | 1.63 | 2.06 | 2.50 | 2.83 | 2.98 | 2.89 | 2.59 | 2.16 | 1.70 | 1.33 |
| 31 QUI | 1.15 | 1.19 | 1.42 | 1.76 | 2.15 | 2.48 | 2.67 | 2.68 | 2.49 | 2.15 | 1.78 | 1.45 | 1.28 | 1.29 | 1.48 | 1.79 | 2.16 | 2.49 | 2.72 | 2.78 | 2.65 | 2.37 | 2.00 | 1.65 |

Sines

Latitude 37° 56.89' N Longitude 8° 53.27' W

Horas do Fuso: 0 (TU)

AGOSTO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 SEX | 1.39 | 1.30 | 1.38 | 1.60 | 1.90 | 2.21 | 2.45 | 2.58 | 2.54 | 2.36 | 2.08 | 1.78 | 1.54 | 1.42 | 1.45 | 1.62 | 1.87 | 2.16 | 2.41 | 2.57 | 2.59 | 2.47 | 2.23 | 1.94 |
| 02 SAB | 1.67 | 1.50 | 1.44 | 1.52 | 1.70 | 1.94 | 2.19 | 2.39 | 2.49 | 2.47 | 2.32 | 2.09 | 1.85 | 1.65 | 1.55 | 1.55 | 1.67 | 1.86 | 2.08 | 2.29 | 2.42 | 2.45 | 2.37 | 2.19 |
| 03 DOM | 1.96 | 1.75 | 1.59 | 1.53 | 1.57 | 1.71 | 1.92 | 2.15 | 2.34 | 2.46 | 2.47 | 2.36 | 2.17 | 1.94 | 1.74 | 1.61 | 1.56 | 1.63 | 1.78 | 1.98 | 2.18 | 2.34 | 2.41 | 2.37 |
| 04 SEG | 2.23 | 2.03 | 1.81 | 1.63 | 1.53 | 1.54 | 1.66 | 1.87 | 2.11 | 2.35 | 2.51 | 2.55 | 2.46 | 2.27 | 2.02 | 1.77 | 1.58 | 1.48 | 1.52 | 1.66 | 1.88 | 2.13 | 2.34 | 2.45 |
| 05 TER | 2.44 | 2.31 | 2.08 | 1.83 | 1.60 | 1.46 | 1.45 | 1.58 | 1.83 | 2.14 | 2.43 | 2.63 | 2.69 | 2.58 | 2.34 | 2.03 | 1.70 | 1.45 | 1.34 | 1.38 | 1.56 | 1.85 | 2.17 | 2.44 |
| 06 QUA | 2.58 | 2.56 | 2.38 | 2.09 | 1.76 | 1.47 | 1.32 | 1.33 | 1.52 | 1.86 | 2.24 | 2.59 | 2.81 | 2.84 | 2.68 | 2.35 | 1.94 | 1.54 | 1.26 | 1.15 | 1.25 | 1.53 | 1.92 | 2.31 |
| 07 QUI | 2.61 | 2.74 | 2.66 | 2.39 | 2.01 | 1.60 | 1.28 | 1.15 | 1.23 | 1.53 | 1.97 | 2.44 | 2.82 | 3.02 | 2.98 | 2.70 | 2.26 | 1.75 | 1.30 | 1.03 | 0.99 | 1.19 | 1.59 | 2.08 |
| 08 SEX | 2.53 | 2.83 | 2.90 | 2.71 | 2.32 | 1.83 | 1.37 | 1.06 | 1.00 | 1.20 | 1.62 | 2.17 | 2.70 | 3.08 | 3.21 | 3.06 | 2.64 | 2.07 | 1.48 | 1.03 | 0.81 | 0.88 | 1.23 | 1.75 |
| 09 SAB | 2.32 | 2.79 | 3.04 | 3.00 | 2.68 | 2.16 | 1.59 | 1.11 | 0.86 | 0.91 | 1.25 | 1.80 | 2.43 | 2.98 | 3.31 | 3.34 | 3.04 | 2.48 | 1.81 | 1.18 | 0.77 | 0.66 | 0.87 | 1.35 |
| 10 DOM | 1.98 | 2.59 | 3.03 | 3.19 | 3.01 | 2.56 | 1.93 | 1.32 | 0.88 | 0.73 | 0.91 | 1.38 | 2.04 | 2.71 | 3.23 | 3.48 | 3.37 | 2.92 | 2.25 | 1.52 | 0.91 | 0.59 | 0.61 | 0.97 |
| 11 SEG | 1.56 | 2.24 | 2.84 | 3.20 | 3.24 | 2.93 | 2.36 | 1.67 | 1.07 | 0.71 | 0.69 | 1.01 | 1.59 | 2.29 | 2.95 | 3.41 | 3.54 | 3.29 | 2.72 | 1.98 | 1.25 | 0.72 | 0.52 | 0.68 |
| 12 TER | 1.15 | 1.80 | 2.48 | 3.02 | 3.28 | 3.19 | 2.77 | 2.12 | 1.44 | 0.90 | 0.65 | 0.76 | 1.18 | 1.81 | 2.51 | 3.12 | 3.47 | 3.48 | 3.12 | 2.48 | 1.73 | 1.07 | 0.65 | 0.57 |
| 13 QUA | 0.85 | 1.37 | 2.03 | 2.66 | 3.11 | 3.25 | 3.05 | 2.56 | 1.91 | 1.28 | 0.84 | 0.71 | 0.91 | 1.38 | 2.00 | 2.65 | 3.17 | 3.41 | 3.32 | 2.89 | 2.25 | 1.56 | 0.99 | 0.70 |
| 14 QUI | 0.74 | 1.07 | 1.60 | 2.20 | 2.74 | 3.09 | 3.13 | 2.87 | 2.37 | 1.77 | 1.23 | 0.90 | 0.85 | 1.10 | 1.55 | 2.12 | 2.68 | 3.09 | 3.25 | 3.09 | 2.66 | 2.08 | 1.49 | 1.04 |
| 15 SEX | 0.86 | 0.95 | 1.29 | 1.76 | 2.28 | 2.73 | 2.98 | 2.97 | 2.70 | 2.25 | 1.73 | 1.29 | 1.04 | 1.04 | 1.27 | 1.66 | 2.13 | 2.59 | 2.92 | 3.02 | 2.86 | 2.49 | 2.00 | 1.53 |
| 16 SAB | 1.19 | 1.07 | 1.17 | 1.45 | 1.84 | 2.27 | 2.63 | 2.83 | 2.82 | 2.60 | 2.22 | 1.80 | 1.44 | 1.23 | 1.21 | 1.37 | 1.67 | 2.04 | 2.42 | 2.69 | 2.79 | 2.69 | 2.41 | 2.03 |
| 17 DOM | 1.65 | 1.38 | 1.26 | 1.32 | 1.52 | 1.83 | 2.18 | 2.50 | 2.71 | 2.74 | 2.59 | 2.30 | 1.95 | 1.62 | 1.39 | 1.30 | 1.37 | 1.58 | 1.88 | 2.21 | 2.49 | 2.64 | 2.62 | 2.43 |
| 18 SEG | 2.14 | 1.82 | 1.54 | 1.38 | 1.36 | 1.49 | 1.74 | 2.06 | 2.40 | 2.65 | 2.76 | 2.69 | 2.46 | 2.12 | 1.77 | 1.48 | 1.30 | 1.28 | 1.41 | 1.68 | 2.02 | 2.35 | 2.58 | 2.65 |
| 19 TER | 2.54 | 2.28 | 1.95 | 1.63 | 1.39 | 1.30 | 1.38 | 1.61 | 1.97 | 2.36 | 2.69 | 2.87 | 2.85 | 2.64 | 2.27 | 1.85 | 1.46 | 1.19 | 1.11 | 1.22 | 1.52 | 1.92 | 2.34 | 2.65 |
| 20 QUA | 2.77 | 2.68 | 2.40 | 2.01 | 1.60 | 1.29 | 1.16 | 1.24 | 1.51 | 1.94 | 2.42 | 2.83 | 3.06 | 3.04 | 2.78 | 2.34 | 1.81 | 1.33 | 1.01 | 0.92 | 1.08 | 1.45 | 1.94 | 2.44 |
| 21 QUI | 2.80 | 2.92 | 2.79 | 2.44 | 1.95 | 1.47 | 1.12 | 0.99 | 1.12 | 1.49 | 2.02 | 2.58 | 3.04 | 3.26 | 3.19 | 2.84 | 2.28 | 1.66 | 1.13 | 0.81 | 0.78 | 1.02 | 1.50 | 2.08 |
| 22 SEX | 2.62 | 2.98 | 3.05 | 2.83 | 2.36 | 1.78 | 1.25 | 0.92 | 0.86 | 1.09 | 1.58 | 2.20 | 2.81 | 3.26 | 3.42 | 3.24 | 2.77 | 2.11 | 1.44 | 0.91 | 0.66 | 0.73 | 1.10 | 1.67 |
| 23 SAB | 2.31 | 2.85 | 3.13 | 3.10 | 2.74 | 2.17 | 1.54 | 1.02 | 0.76 | 0.81 | 1.18 | 1.77 | 2.44 | 3.05 | 3.43 | 3.47 | 3.16 | 2.57 | 1.85 | 1.18 | 0.73 | 0.60 | 0.81 | 1.29 |
| 24 DOM | 1.93 | 2.57 | 3.04 | 3.21 | 3.03 | 2.55 | 1.90 | 1.27 | 0.83 | 0.69 | 0.89 | 1.38 | 2.03 | 2.71 | 3.24 | 3.50 | 3.40 | 2.95 | 2.28 | 1.56 | 0.96 | 0.64 | 0.67 | 1.02 |
| 25 SEG | 1.58 | 2.23 | 2.81 | 3.15 | 3.16 | 2.84 | 2.27 | 1.61 | 1.05 | 0.73 | 0.75 | 1.09 | 1.65 | 2.32 | 2.93 | 3.34 | 3.44 | 3.19 | 2.64 | 1.95 | 1.29 | 0.83 | 0.68 | 0.87 |
| 26 TER | 1.31 | 1.91 | 2.51 | 2.96 | 3.15 | 3.00 | 2.57 | 1.97 | 1.36 | 0.92 | 0.77 | 0.93 | 1.36 | 1.95 | 2.56 | 3.06 | 3.31 | 3.25 | 2.88 | 2.30 | 1.65 | 1.12 | 0.82 | 0.84 |
| 27 QUA | 1.15 | 1.64 | 2.20 | 2.70 | 3.00 | 3.03 | 2.76 | 2.27 | 1.70 | 1.20 | 0.91 | 0.91 | 1.19 | 1.66 | 2.21 | 2.71 | 3.07 | 3.17 | 2.97 | 2.54 | 1.98 | 1.44 | 1.06 | 0.94 |
| 28 QUI | 1.09 | 1.46 | 1.94 | 2.41 | 2.78 | 2.94 | 2.84 | 2.50 | 2.02 | 1.53 | 1.17 | 1.02 | 1.14 | 1.46 | 1.91 | 2.37 | 2.75 | 2.96 | 2.93 | 2.66 | 2.24 | 1.76 | 1.35 | 1.13 |
| 29 SEX | 1.14 | 1.36 | 1.73 | 2.15 | 2.52 | 2.75 | 2.79 | 2.61 | 2.27 | 1.85 | 1.48 | 1.24 | 1.21 | 1.38 | 1.69 | 2.06 | 2.42 | 2.68 | 2.77 | 2.66 | 2.39 | 2.02 | 1.65 | 1.39 |
| 30 SAB | 1.28 | 1.37 | 1.60 | 1.91 | 2.24 | 2.51 | 2.65 | 2.62 | 2.43 | 2.13 | 1.81 | 1.54 | 1.39 | 1.41 | 1.57 | 1.82 | 2.10 | 2.36 | 2.52 | 2.55 | 2.44 | 2.21 | 1.93 | 1.67 |
| 31 DOM | 1.50 | 1.47 | 1.56 | 1.74 | 1.98 | 2.23 | 2.42 | 2.51 | 2.48 | 2.33 | 2.11 | 1.86 | 1.67 | 1.56 | 1.57 | 1.67 | 1.84 | 2.04 | 2.22 | 2.34 | 2.37 | 2.30 | 2.15 | 1.95 |

Sines

Latitude 37° 56.89' N Longitude 8° 53.27' W

Horas do Fuso: 0 (TU)

SETEMBRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 01 SEG | 1.77 | 1.65 | 1.61 | 1.65 | 1.77 | 1.95 | 2.14 | 2.31 | 2.41 | 2.42 | 2.34 | 2.18 | 1.99 | 1.81 | 1.68 | 1.63 | 1.65 | 1.75 | 1.90 | 2.07 | 2.21 | 2.29 | 2.29 | 2.20 |
| 02 TER | 2.06 | 1.90 | 1.76 | 1.66 | 1.64 | 1.70 | 1.85 | 2.04 | 2.24 | 2.40 | 2.48 | 2.45 | 2.31 | 2.12 | 1.90 | 1.70 | 1.57 | 1.53 | 1.60 | 1.76 | 1.97 | 2.17 | 2.33 | 2.39 |
| 03 QUA | 2.34 | 2.19 | 1.99 | 1.77 | 1.60 | 1.52 | 1.56 | 1.73 | 1.98 | 2.26 | 2.50 | 2.63 | 2.62 | 2.46 | 2.20 | 1.89 | 1.60 | 1.40 | 1.34 | 1.43 | 1.66 | 1.96 | 2.26 | 2.49 |
| 04 QUI | 2.57 | 2.50 | 2.28 | 1.98 | 1.67 | 1.43 | 1.33 | 1.41 | 1.66 | 2.02 | 2.40 | 2.70 | 2.85 | 2.80 | 2.55 | 2.17 | 1.75 | 1.38 | 1.15 | 1.13 | 1.31 | 1.66 | 2.08 | 2.47 |
| 05 SEX | 2.73 | 2.78 | 2.62 | 2.28 | 1.85 | 1.45 | 1.18 | 1.13 | 1.30 | 1.68 | 2.17 | 2.64 | 2.98 | 3.08 | 2.93 | 2.55 | 2.03 | 1.49 | 1.08 | 0.89 | 0.96 | 1.29 | 1.78 | 2.32 |
| 06 SÁB | 2.76 | 2.99 | 2.95 | 2.65 | 2.16 | 1.61 | 1.16 | 0.92 | 0.96 | 1.29 | 1.82 | 2.42 | 2.95 | 3.26 | 3.28 | 2.97 | 2.43 | 1.77 | 1.17 | 0.77 | 0.67 | 0.90 | 1.38 | 2.01 |
| 07 DOM | 2.62 | 3.06 | 3.21 | 3.03 | 2.56 | 1.93 | 1.30 | 0.86 | 0.71 | 0.90 | 1.38 | 2.05 | 2.74 | 3.27 | 3.50 | 3.37 | 2.90 | 2.20 | 1.45 | 0.84 | 0.52 | 0.56 | 0.95 | 1.59 |
| 08 SEG | 2.31 | 2.94 | 3.32 | 3.34 | 2.99 | 2.36 | 1.63 | 0.99 | 0.61 | 0.59 | 0.94 | 1.57 | 2.33 | 3.04 | 3.52 | 3.63 | 3.34 | 2.72 | 1.91 | 1.13 | 0.57 | 0.38 | 0.59 | 1.13 |
| 09 TER | 1.87 | 2.62 | 3.20 | 3.47 | 3.33 | 2.83 | 2.10 | 1.33 | 0.74 | 0.47 | 0.60 | 1.09 | 1.82 | 2.61 | 3.27 | 3.65 | 3.62 | 3.19 | 2.45 | 1.61 | 0.88 | 0.44 | 0.40 | 0.75 |
| 10 QUA | 1.39 | 2.15 | 2.87 | 3.36 | 3.48 | 3.21 | 2.60 | 1.83 | 1.10 | 0.60 | 0.47 | 0.73 | 1.31 | 2.05 | 2.80 | 3.38 | 3.63 | 3.47 | 2.94 | 2.18 | 1.38 | 0.76 | 0.46 | 0.56 |
| 11 QUI | 1.00 | 1.66 | 2.39 | 3.01 | 3.38 | 3.37 | 3.00 | 2.36 | 1.62 | 0.98 | 0.62 | 0.61 | 0.94 | 1.52 | 2.22 | 2.88 | 3.33 | 3.46 | 3.22 | 2.67 | 1.95 | 1.27 | 0.79 | 0.64 |
| 12 SEX | 0.82 | 1.29 | 1.90 | 2.53 | 3.03 | 3.27 | 3.17 | 2.77 | 2.16 | 1.52 | 1.01 | 0.76 | 0.82 | 1.16 | 1.68 | 2.28 | 2.81 | 3.15 | 3.20 | 2.93 | 2.43 | 1.83 | 1.29 | 0.96 |
| 13 SÁB | 0.90 | 1.11 | 1.52 | 2.04 | 2.54 | 2.92 | 3.07 | 2.95 | 2.58 | 2.08 | 1.56 | 1.17 | 0.99 | 1.06 | 1.34 | 1.75 | 2.21 | 2.62 | 2.88 | 2.90 | 2.68 | 2.29 | 1.83 | 1.43 |
| 14 DOM | 1.20 | 1.18 | 1.35 | 1.66 | 2.05 | 2.45 | 2.74 | 2.86 | 2.77 | 2.50 | 2.11 | 1.71 | 1.39 | 1.23 | 1.25 | 1.41 | 1.70 | 2.04 | 2.37 | 2.59 | 2.65 | 2.52 | 2.26 | 1.94 |
| 15 SEG | 1.65 | 1.45 | 1.39 | 1.48 | 1.68 | 1.97 | 2.28 | 2.55 | 2.71 | 2.70 | 2.53 | 2.25 | 1.92 | 1.62 | 1.41 | 1.33 | 1.38 | 1.55 | 1.82 | 2.12 | 2.37 | 2.51 | 2.50 | 2.35 |
| 16 TER | 2.11 | 1.85 | 1.63 | 1.49 | 1.48 | 1.59 | 1.82 | 2.12 | 2.42 | 2.65 | 2.74 | 2.67 | 2.45 | 2.13 | 1.78 | 1.48 | 1.29 | 1.25 | 1.37 | 1.62 | 1.96 | 2.28 | 2.51 | 2.59 |
| 17 QUA | 2.51 | 2.28 | 1.98 | 1.68 | 1.45 | 1.36 | 1.43 | 1.67 | 2.02 | 2.40 | 2.72 | 2.89 | 2.86 | 2.63 | 2.25 | 1.82 | 1.42 | 1.16 | 1.07 | 1.20 | 1.50 | 1.92 | 2.33 | 2.64 |
| 18 QUI | 2.75 | 2.66 | 2.37 | 1.98 | 1.59 | 1.29 | 1.18 | 1.28 | 1.58 | 2.02 | 2.50 | 2.89 | 3.08 | 3.03 | 2.73 | 2.26 | 1.72 | 1.25 | 0.97 | 0.91 | 1.11 | 1.52 | 2.03 | 2.51 |
| 19 SEX | 2.84 | 2.92 | 2.74 | 2.35 | 1.85 | 1.38 | 1.08 | 1.01 | 1.19 | 1.60 | 2.15 | 2.70 | 3.11 | 3.26 | 3.11 | 2.70 | 2.12 | 1.51 | 1.03 | 0.79 | 0.83 | 1.15 | 1.67 | 2.26 |
| 20 SÁB | 2.76 | 3.04 | 3.02 | 2.71 | 2.19 | 1.61 | 1.13 | 0.87 | 0.91 | 1.22 | 1.75 | 2.38 | 2.95 | 3.30 | 3.35 | 3.08 | 2.53 | 1.86 | 1.24 | 0.81 | 0.68 | 0.87 | 1.33 | 1.94 |
| 21 DOM | 2.55 | 3.00 | 3.17 | 3.00 | 2.55 | 1.93 | 1.32 | 0.89 | 0.75 | 0.93 | 1.38 | 2.01 | 2.66 | 3.18 | 3.42 | 3.32 | 2.89 | 2.25 | 1.54 | 0.97 | 0.67 | 0.71 | 1.05 | 1.62 |
| 22 SEG | 2.27 | 2.84 | 3.18 | 3.18 | 2.86 | 2.28 | 1.62 | 1.05 | 0.74 | 0.75 | 1.08 | 1.64 | 2.31 | 2.92 | 3.33 | 3.41 | 3.15 | 2.60 | 1.90 | 1.24 | 0.79 | 0.66 | 0.86 | 1.34 |
| 23 TER | 1.97 | 2.60 | 3.06 | 3.24 | 3.07 | 2.60 | 1.96 | 1.32 | 0.86 | 0.70 | 0.88 | 1.34 | 1.95 | 2.59 | 3.10 | 3.35 | 3.27 | 2.86 | 2.24 | 1.56 | 1.01 | 0.73 | 0.78 | 1.14 |
| 24 QUA | 1.70 | 2.31 | 2.85 | 3.16 | 3.16 | 2.84 | 2.28 | 1.64 | 1.10 | 0.79 | 0.80 | 1.12 | 1.64 | 2.25 | 2.80 | 3.17 | 3.25 | 3.01 | 2.51 | 1.88 | 1.30 | 0.91 | 0.81 | 1.02 |
| 25 QUI | 1.47 | 2.04 | 2.59 | 2.98 | 3.13 | 2.97 | 2.55 | 1.97 | 1.41 | 1.00 | 0.86 | 1.01 | 1.41 | 1.94 | 2.47 | 2.90 | 3.10 | 3.03 | 2.68 | 2.16 | 1.60 | 1.16 | 0.94 | 1.01 |
| 26 SEX | 1.33 | 1.80 | 2.31 | 2.74 | 2.99 | 2.99 | 2.72 | 2.26 | 1.73 | 1.28 | 1.03 | 1.03 | 1.27 | 1.68 | 2.16 | 2.58 | 2.86 | 2.93 | 2.74 | 2.36 | 1.89 | 1.45 | 1.16 | 1.10 |
| 27 SÁB | 1.27 | 1.62 | 2.06 | 2.47 | 2.77 | 2.89 | 2.78 | 2.47 | 2.04 | 1.61 | 1.29 | 1.16 | 1.25 | 1.52 | 1.88 | 2.26 | 2.57 | 2.72 | 2.69 | 2.46 | 2.11 | 1.74 | 1.43 | 1.28 |
| 28 DOM | 1.32 | 1.53 | 1.84 | 2.20 | 2.50 | 2.70 | 2.72 | 2.57 | 2.28 | 1.93 | 1.61 | 1.40 | 1.35 | 1.46 | 1.69 | 1.97 | 2.25 | 2.45 | 2.53 | 2.46 | 2.26 | 1.99 | 1.72 | 1.52 |
| 29 SEG | 1.46 | 1.53 | 1.71 | 1.95 | 2.21 | 2.44 | 2.56 | 2.56 | 2.42 | 2.20 | 1.93 | 1.70 | 1.55 | 1.52 | 1.60 | 1.75 | 1.95 | 2.14 | 2.29 | 2.35 | 2.30 | 2.17 | 1.99 | 1.81 |
| 30 TER | 1.68 | 1.63 | 1.66 | 1.77 | 1.94 | 2.13 | 2.31 | 2.43 | 2.46 | 2.39 | 2.23 | 2.03 | 1.84 | 1.69 | 1.61 | 1.62 | 1.69 | 1.83 | 2.00 | 2.15 | 2.25 | 2.27 | 2.22 | 2.10 |

Sines

Latitude 37° 56.89' N Longitude 8° 53.27' W

Horas do Fuso: 0 (TU)

OUTUBRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 QUA | 1.95 | 1.82 | 1.72 | 1.68 | 1.71 | 1.83 | 2.01 | 2.20 | 2.37 | 2.47 | 2.46 | 2.36 | 2.18 | 1.95 | 1.74 | 1.59 | 1.51 | 1.54 | 1.67 | 1.87 | 2.09 | 2.27 | 2.37 | 2.37 |
| 02 QUI | 2.27 | 2.09 | 1.88 | 1.69 | 1.57 | 1.56 | 1.68 | 1.90 | 2.17 | 2.43 | 2.60 | 2.64 | 2.53 | 2.29 | 1.99 | 1.67 | 1.43 | 1.31 | 1.34 | 1.53 | 1.82 | 2.15 | 2.42 | 2.58 |
| 03 SEX | 2.58 | 2.42 | 2.14 | 1.81 | 1.53 | 1.35 | 1.36 | 1.54 | 1.86 | 2.25 | 2.61 | 2.83 | 2.86 | 2.68 | 2.33 | 1.90 | 1.47 | 1.17 | 1.06 | 1.16 | 1.47 | 1.89 | 2.34 | 2.69 |
| 04 SAB | 2.85 | 2.78 | 2.50 | 2.07 | 1.62 | 1.26 | 1.09 | 1.17 | 1.47 | 1.94 | 2.45 | 2.88 | 3.11 | 3.07 | 2.76 | 2.26 | 1.68 | 1.18 | 0.86 | 0.82 | 1.06 | 1.52 | 2.09 | 2.63 |
| 05 DOM | 3.00 | 3.10 | 2.90 | 2.46 | 1.88 | 1.33 | 0.95 | 0.84 | 1.04 | 1.51 | 2.12 | 2.74 | 3.20 | 3.37 | 3.21 | 2.74 | 2.07 | 1.38 | 0.84 | 0.59 | 0.67 | 1.07 | 1.69 | 2.38 |
| 06 SEG | 2.97 | 3.29 | 3.27 | 2.91 | 2.30 | 1.59 | 1.00 | 0.66 | 0.67 | 1.03 | 1.65 | 2.39 | 3.06 | 3.48 | 3.55 | 3.23 | 2.59 | 1.80 | 1.06 | 0.55 | 0.41 | 0.65 | 1.21 | 1.96 |
| 07 TER | 2.71 | 3.28 | 3.50 | 3.33 | 2.80 | 2.05 | 1.28 | 0.70 | 0.46 | 0.61 | 1.12 | 1.87 | 2.67 | 3.33 | 3.67 | 3.60 | 3.12 | 2.36 | 1.50 | 0.78 | 0.37 | 0.37 | 0.76 | 1.45 |
| 08 QUA | 2.27 | 3.01 | 3.49 | 3.58 | 3.26 | 2.59 | 1.76 | 1.00 | 0.50 | 0.38 | 0.67 | 1.30 | 2.10 | 2.89 | 3.48 | 3.71 | 3.51 | 2.92 | 2.09 | 1.25 | 0.61 | 0.34 | 0.48 | 0.99 |
| 09 QUI | 1.74 | 2.54 | 3.21 | 3.57 | 3.53 | 3.08 | 2.34 | 1.52 | 0.82 | 0.43 | 0.44 | 0.83 | 1.50 | 2.28 | 3.01 | 3.49 | 3.60 | 3.30 | 2.65 | 1.85 | 1.10 | 0.60 | 0.46 | 0.72 |
| 10 SEX | 1.28 | 2.00 | 2.73 | 3.28 | 3.52 | 3.36 | 2.85 | 2.12 | 1.37 | 0.79 | 0.52 | 0.62 | 1.04 | 1.67 | 2.37 | 2.99 | 3.35 | 3.36 | 3.02 | 2.40 | 1.70 | 1.09 | 0.73 | 0.71 |
| 11 SAB | 1.01 | 1.55 | 2.19 | 2.79 | 3.22 | 3.34 | 3.13 | 2.64 | 1.99 | 1.36 | 0.90 | 0.72 | 0.85 | 1.23 | 1.77 | 2.35 | 2.83 | 3.10 | 3.06 | 2.74 | 2.22 | 1.66 | 1.20 | 0.97 |
| 12 DOM | 1.01 | 1.29 | 1.74 | 2.25 | 2.73 | 3.05 | 3.12 | 2.92 | 2.50 | 1.97 | 1.47 | 1.11 | 0.97 | 1.07 | 1.36 | 1.77 | 2.21 | 2.59 | 2.80 | 2.77 | 2.53 | 2.15 | 1.74 | 1.41 |
| 13 SEG | 1.25 | 1.28 | 1.48 | 1.81 | 2.20 | 2.57 | 2.83 | 2.90 | 2.77 | 2.46 | 2.06 | 1.66 | 1.36 | 1.21 | 1.22 | 1.39 | 1.67 | 2.02 | 2.33 | 2.53 | 2.57 | 2.44 | 2.20 | 1.90 |
| 14 TER | 1.64 | 1.48 | 1.45 | 1.55 | 1.77 | 2.07 | 2.38 | 2.64 | 2.76 | 2.72 | 2.53 | 2.23 | 1.88 | 1.57 | 1.36 | 1.28 | 1.33 | 1.53 | 1.81 | 2.12 | 2.37 | 2.49 | 2.47 | 2.32 |
| 15 QUA | 2.08 | 1.82 | 1.61 | 1.49 | 1.50 | 1.65 | 1.91 | 2.22 | 2.53 | 2.73 | 2.78 | 2.67 | 2.40 | 2.05 | 1.69 | 1.39 | 1.22 | 1.22 | 1.38 | 1.67 | 2.02 | 2.34 | 2.54 | 2.59 |
| 16 QUI | 2.46 | 2.21 | 1.89 | 1.60 | 1.41 | 1.37 | 1.50 | 1.78 | 2.15 | 2.53 | 2.81 | 2.91 | 2.81 | 2.52 | 2.11 | 1.67 | 1.31 | 1.10 | 1.09 | 1.28 | 1.64 | 2.06 | 2.45 | 2.69 |
| 17 SEX | 2.73 | 2.57 | 2.24 | 1.84 | 1.48 | 1.25 | 1.22 | 1.39 | 1.74 | 2.19 | 2.64 | 2.95 | 3.05 | 2.90 | 2.53 | 2.04 | 1.54 | 1.15 | 0.96 | 1.01 | 1.29 | 1.73 | 2.23 | 2.65 |
| 18 SAB | 2.87 | 2.85 | 2.58 | 2.15 | 1.67 | 1.27 | 1.07 | 1.10 | 1.37 | 1.82 | 2.35 | 2.82 | 3.12 | 3.14 | 2.89 | 2.42 | 1.85 | 1.32 | 0.96 | 0.86 | 1.02 | 1.42 | 1.96 | 2.49 |
| 19 DOM | 2.88 | 3.03 | 2.88 | 2.49 | 1.95 | 1.42 | 1.05 | 0.92 | 1.07 | 1.46 | 2.00 | 2.57 | 3.02 | 3.24 | 3.14 | 2.76 | 2.19 | 1.58 | 1.07 | 0.81 | 0.84 | 1.15 | 1.67 | 2.26 |
| 20 SEG | 2.78 | 3.08 | 3.09 | 2.79 | 2.28 | 1.68 | 1.16 | 0.87 | 0.87 | 1.15 | 1.65 | 2.25 | 2.81 | 3.18 | 3.26 | 3.02 | 2.52 | 1.88 | 1.28 | 0.87 | 0.76 | 0.95 | 1.40 | 1.99 |
| 21 TER | 2.58 | 3.02 | 3.19 | 3.04 | 2.60 | 1.99 | 1.39 | 0.95 | 0.78 | 0.93 | 1.34 | 1.92 | 2.53 | 3.01 | 3.25 | 3.18 | 2.79 | 2.20 | 1.56 | 1.04 | 0.77 | 0.82 | 1.17 | 1.72 |
| 22 QUA | 2.33 | 2.86 | 3.17 | 3.18 | 2.86 | 2.32 | 1.69 | 1.14 | 0.82 | 0.81 | 1.10 | 1.61 | 2.21 | 2.76 | 3.12 | 3.21 | 2.98 | 2.48 | 1.86 | 1.28 | 0.89 | 0.79 | 1.01 | 1.47 |
| 23 QUI | 2.06 | 2.63 | 3.05 | 3.20 | 3.05 | 2.61 | 2.01 | 1.42 | 0.98 | 0.81 | 0.95 | 1.35 | 1.89 | 2.45 | 2.90 | 3.12 | 3.05 | 2.69 | 2.15 | 1.57 | 1.10 | 0.87 | 0.94 | 1.28 |
| 24 SEX | 1.80 | 2.37 | 2.84 | 3.12 | 3.12 | 2.82 | 2.32 | 1.73 | 1.23 | 0.93 | 0.91 | 1.17 | 1.61 | 2.14 | 2.61 | 2.93 | 3.01 | 2.81 | 2.39 | 1.86 | 1.36 | 1.04 | 0.97 | 1.17 |
| 25 SAB | 1.58 | 2.09 | 2.58 | 2.94 | 3.07 | 2.94 | 2.56 | 2.05 | 1.54 | 1.16 | 1.00 | 1.09 | 1.41 | 1.85 | 2.30 | 2.67 | 2.86 | 2.81 | 2.54 | 2.11 | 1.65 | 1.28 | 1.11 | 1.16 |
| 26 DOM | 1.44 | 1.85 | 2.30 | 2.69 | 2.92 | 2.93 | 2.72 | 2.33 | 1.87 | 1.45 | 1.19 | 1.14 | 1.30 | 1.62 | 2.00 | 2.37 | 2.63 | 2.71 | 2.59 | 2.30 | 1.92 | 1.56 | 1.32 | 1.25 |
| 27 SEG | 1.38 | 1.67 | 2.03 | 2.40 | 2.68 | 2.82 | 2.76 | 2.52 | 2.16 | 1.78 | 1.47 | 1.30 | 1.31 | 1.48 | 1.75 | 2.06 | 2.34 | 2.51 | 2.54 | 2.40 | 2.15 | 1.85 | 1.59 | 1.44 |
| 28 TER | 1.43 | 1.57 | 1.81 | 2.10 | 2.39 | 2.60 | 2.68 | 2.61 | 2.39 | 2.10 | 1.80 | 1.56 | 1.43 | 1.44 | 1.57 | 1.78 | 2.02 | 2.24 | 2.38 | 2.40 | 2.30 | 2.11 | 1.89 | 1.69 |
| 29 QUA | 1.58 | 1.57 | 1.67 | 1.84 | 2.07 | 2.30 | 2.49 | 2.57 | 2.53 | 2.37 | 2.14 | 1.88 | 1.66 | 1.52 | 1.49 | 1.56 | 1.72 | 1.92 | 2.13 | 2.29 | 2.35 | 2.31 | 2.18 | 2.00 |
| 30 QUI | 1.82 | 1.68 | 1.62 | 1.65 | 1.77 | 1.97 | 2.20 | 2.41 | 2.54 | 2.56 | 2.45 | 2.24 | 1.97 | 1.72 | 1.52 | 1.43 | 1.45 | 1.59 | 1.81 | 2.07 | 2.28 | 2.42 | 2.44 | 2.33 |
| 31 SEX | 2.14 | 1.90 | 1.69 | 1.55 | 1.53 | 1.63 | 1.85 | 2.14 | 2.42 | 2.62 | 2.69 | 2.59 | 2.36 | 2.03 | 1.69 | 1.41 | 1.26 | 1.28 | 1.45 | 1.74 | 2.08 | 2.40 | 2.60 | 2.64 |

Sines

Latitude 37° 56.89' N Longitude 8° 53.27' W

Horas do Fuso: 0 (TU)

NOVEMBRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 01 SÁB | 2.50 | 2.23 | 1.90 | 1.58 | 1.37 | 1.33 | 1.47 | 1.77 | 2.15 | 2.53 | 2.80 | 2.89 | 2.76 | 2.44 | 2.00 | 1.55 | 1.20 | 1.03 | 1.08 | 1.34 | 1.75 | 2.21 | 2.62 | 2.85 |
| 02 DOM | 2.86 | 2.64 | 2.24 | 1.78 | 1.37 | 1.12 | 1.11 | 1.33 | 1.75 | 2.26 | 2.74 | 3.05 | 3.11 | 2.90 | 2.45 | 1.88 | 1.33 | 0.94 | 0.79 | 0.93 | 1.32 | 1.87 | 2.45 | 2.90 |
| 03 SEG | 3.12 | 3.05 | 2.69 | 2.14 | 1.56 | 1.09 | 0.85 | 0.92 | 1.27 | 1.82 | 2.45 | 3.00 | 3.31 | 3.30 | 2.96 | 2.37 | 1.67 | 1.06 | 0.67 | 0.61 | 0.87 | 1.40 | 2.08 | 2.74 |
| 04 TER | 3.20 | 3.35 | 3.15 | 2.64 | 1.96 | 1.28 | 0.80 | 0.62 | 0.80 | 1.28 | 1.97 | 2.68 | 3.25 | 3.51 | 3.39 | 2.92 | 2.20 | 1.43 | 0.80 | 0.47 | 0.52 | 0.92 | 1.58 | 2.35 |
| 05 QUA | 3.03 | 3.45 | 3.50 | 3.15 | 2.50 | 1.72 | 1.01 | 0.56 | 0.48 | 0.77 | 1.38 | 2.15 | 2.89 | 3.43 | 3.61 | 3.38 | 2.79 | 1.99 | 1.20 | 0.61 | 0.38 | 0.55 | 1.08 | 1.83 |
| 06 QUI | 2.62 | 3.27 | 3.60 | 3.52 | 3.05 | 2.31 | 1.49 | 0.80 | 0.42 | 0.44 | 0.84 | 1.51 | 2.31 | 3.03 | 3.50 | 3.59 | 3.26 | 2.60 | 1.78 | 1.03 | 0.54 | 0.43 | 0.71 | 1.31 |
| 07 SEX | 2.08 | 2.84 | 3.40 | 3.63 | 3.44 | 2.89 | 2.11 | 1.31 | 0.69 | 0.41 | 0.51 | 0.97 | 1.65 | 2.41 | 3.07 | 3.45 | 3.44 | 3.05 | 2.39 | 1.62 | 0.97 | 0.59 | 0.59 | 0.94 |
| 08 SÁB | 1.55 | 2.28 | 2.96 | 3.42 | 3.55 | 3.28 | 2.71 | 1.96 | 1.23 | 0.71 | 0.51 | 0.67 | 1.12 | 1.76 | 2.44 | 2.99 | 3.28 | 3.22 | 2.82 | 2.21 | 1.55 | 1.02 | 0.76 | 0.82 |
| 09 DOM | 1.19 | 1.75 | 2.39 | 2.96 | 3.33 | 3.38 | 3.09 | 2.55 | 1.89 | 1.26 | 0.84 | 0.70 | 0.86 | 1.26 | 1.80 | 2.37 | 2.83 | 3.04 | 2.96 | 2.61 | 2.09 | 1.56 | 1.15 | 0.98 |
| 10 SEG | 1.08 | 1.40 | 1.88 | 2.41 | 2.87 | 3.16 | 3.18 | 2.92 | 2.46 | 1.90 | 1.38 | 1.03 | 0.92 | 1.04 | 1.35 | 1.78 | 2.24 | 2.62 | 2.79 | 2.73 | 2.46 | 2.06 | 1.65 | 1.34 |
| 11 TER | 1.21 | 1.29 | 1.54 | 1.91 | 2.34 | 2.72 | 2.96 | 2.99 | 2.80 | 2.43 | 1.98 | 1.55 | 1.24 | 1.11 | 1.16 | 1.38 | 1.71 | 2.09 | 2.41 | 2.59 | 2.58 | 2.40 | 2.11 | 1.79 |
| 12 QUA | 1.53 | 1.40 | 1.42 | 1.58 | 1.87 | 2.22 | 2.56 | 2.80 | 2.87 | 2.75 | 2.47 | 2.10 | 1.72 | 1.41 | 1.24 | 1.22 | 1.36 | 1.63 | 1.96 | 2.27 | 2.47 | 2.53 | 2.43 | 2.20 |
| 13 QUI | 1.92 | 1.66 | 1.49 | 1.45 | 1.55 | 1.78 | 2.10 | 2.43 | 2.69 | 2.82 | 2.77 | 2.54 | 2.20 | 1.82 | 1.49 | 1.27 | 1.21 | 1.31 | 1.56 | 1.89 | 2.22 | 2.47 | 2.57 | 2.50 |
| 14 SEX | 2.29 | 1.99 | 1.70 | 1.48 | 1.39 | 1.46 | 1.68 | 2.01 | 2.37 | 2.68 | 2.84 | 2.81 | 2.60 | 2.25 | 1.84 | 1.48 | 1.23 | 1.16 | 1.27 | 1.54 | 1.91 | 2.29 | 2.57 | 2.68 |
| 15 SÁB | 2.59 | 2.34 | 1.99 | 1.64 | 1.39 | 1.29 | 1.37 | 1.62 | 2.00 | 2.40 | 2.74 | 2.91 | 2.86 | 2.61 | 2.21 | 1.76 | 1.37 | 1.14 | 1.10 | 1.27 | 1.61 | 2.04 | 2.44 | 2.72 |
| 16 DOM | 2.80 | 2.65 | 2.32 | 1.90 | 1.51 | 1.24 | 1.18 | 1.32 | 1.64 | 2.07 | 2.51 | 2.85 | 2.98 | 2.87 | 2.54 | 2.08 | 1.60 | 1.22 | 1.03 | 1.08 | 1.35 | 1.77 | 2.25 | 2.66 |
| 17 SEG | 2.89 | 2.88 | 2.63 | 2.21 | 1.73 | 1.32 | 1.10 | 1.10 | 1.33 | 1.73 | 2.22 | 2.67 | 2.96 | 3.01 | 2.80 | 2.39 | 1.87 | 1.38 | 1.06 | 0.97 | 1.13 | 1.50 | 2.00 | 2.50 |
| 18 TER | 2.88 | 3.02 | 2.89 | 2.52 | 2.02 | 1.51 | 1.13 | 0.98 | 1.09 | 1.42 | 1.90 | 2.41 | 2.83 | 3.04 | 2.98 | 2.66 | 2.16 | 1.62 | 1.17 | 0.94 | 0.97 | 1.26 | 1.74 | 2.28 |
| 19 QUA | 2.76 | 3.05 | 3.07 | 2.81 | 2.34 | 1.78 | 1.28 | 0.98 | 0.94 | 1.16 | 1.59 | 2.12 | 2.62 | 2.96 | 3.06 | 2.87 | 2.45 | 1.90 | 1.37 | 1.01 | 0.90 | 1.07 | 1.48 | 2.02 |
| 20 QUI | 2.56 | 2.98 | 3.15 | 3.03 | 2.64 | 2.09 | 1.53 | 1.09 | 0.90 | 0.98 | 1.31 | 1.81 | 2.34 | 2.78 | 3.02 | 2.99 | 2.68 | 2.19 | 1.63 | 1.17 | 0.93 | 0.96 | 1.26 | 1.75 |
| 21 SEX | 2.31 | 2.80 | 3.11 | 3.14 | 2.89 | 2.41 | 1.83 | 1.31 | 0.97 | 0.90 | 1.10 | 1.52 | 2.03 | 2.53 | 2.88 | 3.00 | 2.84 | 2.44 | 1.92 | 1.41 | 1.05 | 0.94 | 1.11 | 1.51 |
| 22 SÁB | 2.03 | 2.56 | 2.97 | 3.15 | 3.05 | 2.68 | 2.16 | 1.60 | 1.16 | 0.94 | 0.98 | 1.28 | 1.74 | 2.24 | 2.66 | 2.90 | 2.90 | 2.64 | 2.19 | 1.69 | 1.26 | 1.03 | 1.05 | 1.32 |
| 23 DOM | 1.77 | 2.28 | 2.74 | 3.04 | 3.09 | 2.88 | 2.46 | 1.93 | 1.43 | 1.09 | 0.98 | 1.13 | 1.48 | 1.93 | 2.38 | 2.71 | 2.85 | 2.74 | 2.42 | 1.97 | 1.53 | 1.20 | 1.09 | 1.21 |
| 24 SEG | 1.54 | 1.99 | 2.46 | 2.83 | 3.02 | 2.97 | 2.69 | 2.24 | 1.75 | 1.34 | 1.10 | 1.09 | 1.29 | 1.65 | 2.07 | 2.45 | 2.69 | 2.74 | 2.57 | 2.23 | 1.82 | 1.46 | 1.23 | 1.21 |
| 25 TER | 1.39 | 1.73 | 2.15 | 2.55 | 2.84 | 2.94 | 2.82 | 2.51 | 2.09 | 1.66 | 1.32 | 1.16 | 1.21 | 1.44 | 1.77 | 2.14 | 2.45 | 2.63 | 2.62 | 2.42 | 2.11 | 1.75 | 1.46 | 1.31 |
| 26 QUA | 1.34 | 1.54 | 1.86 | 2.22 | 2.56 | 2.79 | 2.84 | 2.69 | 2.39 | 2.00 | 1.63 | 1.35 | 1.24 | 1.31 | 1.52 | 1.82 | 2.15 | 2.41 | 2.55 | 2.52 | 2.34 | 2.07 | 1.77 | 1.52 |
| 27 QUI | 1.41 | 1.45 | 1.63 | 1.90 | 2.22 | 2.52 | 2.72 | 2.75 | 2.61 | 2.34 | 1.99 | 1.65 | 1.40 | 1.30 | 1.35 | 1.54 | 1.81 | 2.11 | 2.37 | 2.50 | 2.50 | 2.35 | 2.10 | 1.83 |
| 28 SEX | 1.60 | 1.47 | 1.48 | 1.63 | 1.87 | 2.18 | 2.47 | 2.67 | 2.72 | 2.61 | 2.36 | 2.02 | 1.68 | 1.42 | 1.29 | 1.32 | 1.48 | 1.75 | 2.07 | 2.35 | 2.52 | 2.55 | 2.43 | 2.19 |
| 29 SÁB | 1.90 | 1.63 | 1.46 | 1.43 | 1.55 | 1.79 | 2.11 | 2.44 | 2.68 | 2.77 | 2.69 | 2.43 | 2.07 | 1.69 | 1.38 | 1.21 | 1.21 | 1.39 | 1.69 | 2.06 | 2.39 | 2.62 | 2.69 | 2.57 |
| 30 DOM | 2.29 | 1.94 | 1.60 | 1.37 | 1.30 | 1.42 | 1.69 | 2.07 | 2.46 | 2.76 | 2.89 | 2.81 | 2.52 | 2.09 | 1.64 | 1.27 | 1.07 | 1.07 | 1.28 | 1.65 | 2.10 | 2.52 | 2.80 | 2.87 |

Sines

Latitude 37° 56.89' N Longitude 8° 53.27' W

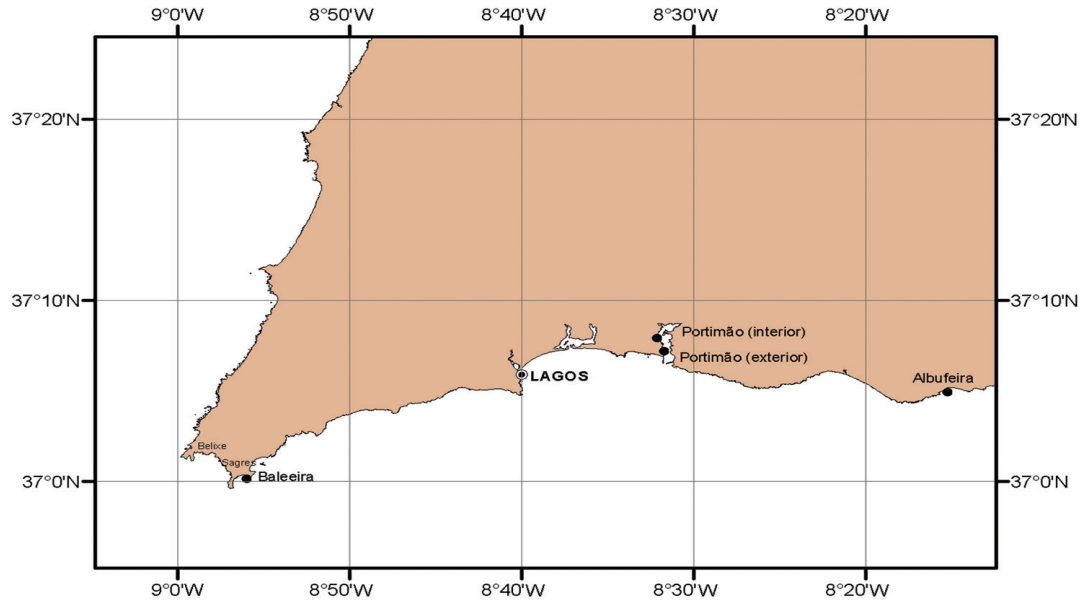
Horas do Fuso: 0 (TU)

DEZEMBRO 2025

| Dia | 00 h m | 01 h m | 02 h m | 03 h m | 04 h m | 05 h m | 06 h m | 07 h m | 08 h m | 09 h m | 10 h m | 11 h m | 12 h m | 13 h m | 14 h m | 15 h m | 16 h m | 17 h m | 18 h m | 19 h m | 20 h m | 21 h m | 22 h m | 23 h m |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 01 SEG | 2.71 | 2.36 | 1.92 | 1.50 | 1.21 | 1.12 | 1.26 | 1.60 | 2.06 | 2.54 | 2.90 | 3.05 | 2.94 | 2.59 | 2.08 | 1.55 | 1.12 | 0.90 | 0.93 | 1.21 | 1.68 | 2.22 | 2.71 | 3.02 |
| 02 TER | 3.07 | 2.83 | 2.38 | 1.83 | 1.33 | 1.00 | 0.92 | 1.12 | 1.55 | 2.11 | 2.66 | 3.07 | 3.21 | 3.05 | 2.61 | 2.01 | 1.40 | 0.94 | 0.73 | 0.83 | 1.20 | 1.77 | 2.40 | 2.94 |
| 03 QUA | 3.25 | 3.23 | 2.90 | 2.34 | 1.69 | 1.12 | 0.78 | 0.74 | 1.02 | 1.54 | 2.19 | 2.80 | 3.23 | 3.34 | 3.11 | 2.58 | 1.90 | 1.24 | 0.77 | 0.61 | 0.79 | 1.26 | 1.92 | 2.61 |
| 04 QUI | 3.17 | 3.43 | 3.34 | 2.91 | 2.24 | 1.52 | 0.92 | 0.60 | 0.62 | 0.97 | 1.57 | 2.29 | 2.93 | 3.34 | 3.40 | 3.09 | 2.49 | 1.76 | 1.09 | 0.66 | 0.56 | 0.82 | 1.38 | 2.10 |
| 05 SEX | 2.82 | 3.35 | 3.56 | 3.38 | 2.85 | 2.11 | 1.35 | 0.76 | 0.48 | 0.56 | 0.98 | 1.64 | 2.38 | 3.02 | 3.38 | 3.38 | 3.01 | 2.37 | 1.62 | 0.98 | 0.61 | 0.60 | 0.94 | 1.55 |
| 06 SAB | 2.29 | 2.98 | 3.46 | 3.59 | 3.33 | 2.75 | 1.98 | 1.23 | 0.67 | 0.45 | 0.59 | 1.06 | 1.73 | 2.44 | 3.04 | 3.35 | 3.28 | 2.87 | 2.22 | 1.51 | 0.94 | 0.65 | 0.71 | 1.10 |
| 07 DOM | 1.73 | 2.44 | 3.08 | 3.49 | 3.55 | 3.23 | 2.62 | 1.87 | 1.16 | 0.67 | 0.51 | 0.69 | 1.16 | 1.81 | 2.47 | 2.99 | 3.23 | 3.12 | 2.70 | 2.08 | 1.44 | 0.96 | 0.76 | 0.88 |
| 08 SEG | 1.29 | 1.89 | 2.54 | 3.10 | 3.43 | 3.42 | 3.08 | 2.49 | 1.79 | 1.16 | 0.75 | 0.64 | 0.85 | 1.29 | 1.87 | 2.45 | 2.89 | 3.06 | 2.92 | 2.52 | 1.97 | 1.43 | 1.04 | 0.92 |
| 09 TER | 1.07 | 1.47 | 2.00 | 2.57 | 3.05 | 3.30 | 3.26 | 2.92 | 2.38 | 1.77 | 1.23 | 0.89 | 0.82 | 1.02 | 1.40 | 1.90 | 2.40 | 2.76 | 2.88 | 2.73 | 2.38 | 1.91 | 1.47 | 1.17 |
| 10 QUA | 1.10 | 1.25 | 1.60 | 2.06 | 2.55 | 2.94 | 3.14 | 3.08 | 2.77 | 2.31 | 1.78 | 1.33 | 1.06 | 1.01 | 1.17 | 1.50 | 1.91 | 2.32 | 2.62 | 2.71 | 2.58 | 2.29 | 1.90 | 1.54 |
| 11 QUI | 1.31 | 1.26 | 1.39 | 1.68 | 2.07 | 2.48 | 2.80 | 2.96 | 2.91 | 2.66 | 2.26 | 1.82 | 1.44 | 1.21 | 1.16 | 1.29 | 1.56 | 1.91 | 2.25 | 2.50 | 2.59 | 2.50 | 2.25 | 1.94 |
| 12 SEX | 1.63 | 1.43 | 1.37 | 1.47 | 1.70 | 2.03 | 2.38 | 2.67 | 2.82 | 2.79 | 2.58 | 2.25 | 1.87 | 1.54 | 1.32 | 1.26 | 1.36 | 1.59 | 1.90 | 2.21 | 2.45 | 2.54 | 2.48 | 2.27 |
| 13 SAB | 1.99 | 1.70 | 1.50 | 1.42 | 1.49 | 1.69 | 1.98 | 2.30 | 2.57 | 2.73 | 2.72 | 2.54 | 2.24 | 1.89 | 1.58 | 1.37 | 1.30 | 1.39 | 1.61 | 1.91 | 2.22 | 2.46 | 2.57 | 2.51 |
| 14 DOM | 2.31 | 2.03 | 1.73 | 1.51 | 1.41 | 1.46 | 1.65 | 1.93 | 2.25 | 2.53 | 2.70 | 2.70 | 2.53 | 2.23 | 1.88 | 1.56 | 1.35 | 1.29 | 1.39 | 1.64 | 1.96 | 2.29 | 2.55 | 2.65 |
| 15 SEG | 2.58 | 2.35 | 2.03 | 1.70 | 1.45 | 1.35 | 1.40 | 1.61 | 1.92 | 2.26 | 2.56 | 2.72 | 2.70 | 2.50 | 2.18 | 1.81 | 1.48 | 1.28 | 1.25 | 1.40 | 1.70 | 2.07 | 2.43 | 2.68 |
| 16 TER | 2.76 | 2.63 | 2.34 | 1.97 | 1.61 | 1.35 | 1.26 | 1.35 | 1.60 | 1.95 | 2.33 | 2.63 | 2.77 | 2.71 | 2.46 | 2.08 | 1.68 | 1.35 | 1.19 | 1.22 | 1.45 | 1.81 | 2.23 | 2.61 |
| 17 QUA | 2.83 | 2.85 | 2.64 | 2.28 | 1.85 | 1.46 | 1.22 | 1.17 | 1.32 | 1.64 | 2.05 | 2.45 | 2.73 | 2.82 | 2.68 | 2.36 | 1.94 | 1.52 | 1.21 | 1.11 | 1.23 | 1.55 | 1.99 | 2.44 |
| 18 QUI | 2.80 | 2.97 | 2.89 | 2.59 | 2.15 | 1.68 | 1.29 | 1.09 | 1.11 | 1.35 | 1.75 | 2.20 | 2.59 | 2.83 | 2.84 | 2.62 | 2.22 | 1.75 | 1.34 | 1.09 | 1.08 | 1.30 | 1.71 | 2.21 |
| 19 SEX | 2.67 | 2.98 | 3.05 | 2.87 | 2.47 | 1.96 | 1.47 | 1.12 | 0.99 | 1.11 | 1.45 | 1.91 | 2.38 | 2.74 | 2.90 | 2.81 | 2.49 | 2.03 | 1.54 | 1.17 | 1.01 | 1.11 | 1.44 | 1.93 |
| 20 SAB | 2.45 | 2.87 | 3.10 | 3.07 | 2.77 | 2.28 | 1.74 | 1.27 | 0.99 | 0.96 | 1.19 | 1.60 | 2.10 | 2.56 | 2.85 | 2.91 | 2.72 | 2.31 | 1.81 | 1.35 | 1.05 | 1.00 | 1.21 | 1.64 |
| 21 DOM | 2.17 | 2.67 | 3.04 | 3.16 | 3.00 | 2.60 | 2.06 | 1.51 | 1.10 | 0.91 | 1.00 | 1.32 | 1.80 | 2.30 | 2.71 | 2.92 | 2.87 | 2.57 | 2.10 | 1.60 | 1.19 | 0.99 | 1.06 | 1.38 |
| 22 SEG | 1.86 | 2.40 | 2.86 | 3.13 | 3.14 | 2.87 | 2.39 | 1.83 | 1.32 | 0.98 | 0.91 | 1.10 | 1.50 | 2.00 | 2.47 | 2.81 | 2.92 | 2.76 | 2.39 | 1.89 | 1.42 | 1.10 | 1.01 | 1.18 |
| 23 TER | 1.57 | 2.08 | 2.59 | 2.99 | 3.16 | 3.05 | 2.70 | 2.17 | 1.62 | 1.17 | 0.94 | 0.97 | 1.24 | 1.68 | 2.17 | 2.60 | 2.85 | 2.86 | 2.62 | 2.20 | 1.72 | 1.30 | 1.07 | 1.08 |
| 24 QUA | 1.33 | 1.76 | 2.26 | 2.73 | 3.04 | 3.11 | 2.92 | 2.51 | 1.98 | 1.47 | 1.10 | 0.96 | 1.07 | 1.40 | 1.84 | 2.30 | 2.67 | 2.84 | 2.77 | 2.48 | 2.05 | 1.60 | 1.25 | 1.10 |
| 25 QUI | 1.19 | 1.49 | 1.92 | 2.39 | 2.79 | 3.03 | 3.03 | 2.78 | 2.34 | 1.83 | 1.37 | 1.08 | 1.02 | 1.19 | 1.53 | 1.96 | 2.38 | 2.68 | 2.79 | 2.67 | 2.36 | 1.95 | 1.55 | 1.26 |
| 26 SEX | 1.18 | 1.30 | 1.61 | 2.02 | 2.45 | 2.80 | 2.98 | 2.92 | 2.65 | 2.22 | 1.75 | 1.34 | 1.11 | 1.09 | 1.28 | 1.62 | 2.02 | 2.40 | 2.66 | 2.74 | 2.60 | 2.30 | 1.92 | 1.55 |
| 27 SAB | 1.31 | 1.25 | 1.38 | 1.67 | 2.05 | 2.45 | 2.76 | 2.91 | 2.84 | 2.57 | 2.16 | 1.72 | 1.35 | 1.15 | 1.15 | 1.33 | 1.65 | 2.03 | 2.39 | 2.64 | 2.71 | 2.59 | 2.31 | 1.94 |
| 28 DOM | 1.59 | 1.36 | 1.29 | 1.40 | 1.67 | 2.03 | 2.41 | 2.71 | 2.85 | 2.80 | 2.55 | 2.16 | 1.74 | 1.38 | 1.18 | 1.17 | 1.33 | 1.64 | 2.02 | 2.38 | 2.64 | 2.73 | 2.63 | 2.36 |
| 29 SEG | 2.00 | 1.64 | 1.38 | 1.28 | 1.36 | 1.60 | 1.95 | 2.34 | 2.66 | 2.84 | 2.81 | 2.58 | 2.21 | 1.78 | 1.40 | 1.17 | 1.13 | 1.28 | 1.59 | 1.99 | 2.39 | 2.69 | 2.82 | 2.74 |
| 30 TER | 2.46 | 2.07 | 1.66 | 1.35 | 1.20 | 1.24 | 1.48 | 1.85 | 2.27 | 2.65 | 2.87 | 2.88 | 2.66 | 2.27 | 1.81 | 1.39 | 1.12 | 1.05 | 1.20 | 1.54 | 1.98 | 2.44 | 2.80 | 2.96 |
| 31 QUA | 2.88 | 2.58 | 2.13 | 1.65 | 1.26 | 1.06 | 1.09 | 1.33 | 1.74 | 2.23 | 2.68 | 2.95 | 2.99 | 2.76 | 2.33 | 1.82 | 1.34 | 1.03 | 0.95 | 1.12 | 1.50 | 2.02 | 2.55 | 2.96 |

201.11

LAGOS



PORTO DE LAGOS

NOTAS

1. ANÁLISE HARMÓNICA:

— Efetuada a partir de um ano de observações maregráficas, de 23 de novembro de 1991 a 22 de novembro de 1992.

2. LOCALIZAÇÃO DO MARÉGRAFO:

— No cais da Solaria:

Latitude 37° 05,93' N; Longitude 8° 40,10' W – WGS84.

3. ALTURAS DE MARÉ:

— Referidas ao nível do zero hidrográfico.

— Nível médio: 2,00 m.

4. ZERO HIDROGRÁFICO:

— 2,00 m abaixo do nível médio adotado (Cascais, 1938).

— 5,063 m abaixo da marca de contacto existente no bordo do poço do marégrafo.

— 5,193 m abaixo da marca NP M.º LAGOS, cimentada no lajeado, a meio da entrada da Capela existente no pátio interior do Forte da Bandeira.

— 5,815 m abaixo da marca NP142 (IGP) chumbada na soleira da porta da Igreja de Santa Maria, em Lagos, junto da ombreira do lado oriental.

Porto de Lagos

Latitude 37° 05.93' N Longitude 8° 40.10' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JANEIRO | | | | FEVEREIRO | | | | MARÇO | | | | | | | | | | | | | | |
|-----------|-------|--------|-----------|-----------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-------|-----------|-------|-------|-------|-----|-----|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | | | | | | |
| 01 | 02:59 | 3.3 | 17 | 04:22 | 3.4 | 01 | 04:04 | 3.6 | 17 | 04:55 | 3.1 | 01 | 03:02 | 3.7 | 17 | 03:51 | 3.3 | | | | | |
| | 09:11 | 0.7 | | 10:33 | 0.7 | | 10:14 | 0.4 | | 11:00 | 0.9 | | 09:12 | 0.2 | | 09:53 | 0.7 | | | | | |
| | 15:24 | 3.1 | | SEX | 16:45 | | 3.0 | SÁB | | 16:30 | 3.3 | | SEG | 17:12 | | 2.9 | SÁB | 15:26 | 3.5 | SEG | 16:05 | 3.1 |
| | 21:19 | 0.8 | | 22:35 | 0.9 | | 22:25 | 0.6 | | 23:07 | 1.0 | | 21:25 | 0.3 | | 22:03 | 0.8 | | | | | |
| 02 | 03:39 | 3.4 | 18 | 04:59 | 3.2 | 02 | 04:45 | 3.5 | 18 | 05:26 | 3.0 | 02 | 03:42 | 3.8 | 18 | 04:20 | 3.1 | | | | | |
| | 09:51 | 0.6 | | 11:09 | 0.8 | | 10:55 | 0.5 | | 11:31 | 1.0 | | 09:51 | 0.3 | | 10:21 | 0.8 | | | | | |
| | 16:06 | 3.1 | | SÁB | 17:21 | | 2.9 | DOM | | 17:12 | 3.2 | | TER | 17:44 | | 2.8 | DOM | 16:06 | 3.5 | TER | 16:34 | 3.0 |
| | 21:59 | 0.8 | | 23:11 | 1.0 | | 23:08 | 0.7 | | 23:41 | 1.1 | | 22:05 | 0.4 | | 22:33 | 0.9 | | | | | |
| 03 | 04:21 | 3.4 | 19 | 05:35 | 3.1 | 03 | 05:30 | 3.4 | 19 | 06:00 | 2.8 | 03 | 04:24 | 3.6 | 19 | 04:49 | 3.0 | | | | | |
| | 10:33 | 0.6 | | 11:46 | 1.0 | | 11:39 | 0.6 | | 12:06 | 1.2 | | 10:30 | 0.4 | | 10:50 | 1.0 | | | | | |
| | 16:49 | 3.1 | | DOM | 17:58 | | 2.8 | SEG | | 17:58 | 3.1 | | QUA | 18:21 | | 2.6 | SEG | 16:47 | 3.4 | QUA | 17:04 | 2.9 |
| | 22:42 | 0.8 | | 23:49 | 1.1 | | 23:55 | 0.8 | | 23:55 | 0.8 | | 22:47 | 0.5 | | 23:06 | 1.1 | | | | | |
| 04 | 05:05 | 3.3 | 20 | 06:12 | 2.9 | 04 | 06:19 | 3.2 | 20 | 00:22 | 1.3 | 04 | 05:08 | 3.4 | 20 | 05:22 | 2.8 | | | | | |
| | 11:18 | 0.7 | | 12:25 | 1.1 | | 12:28 | 0.9 | | 06:42 | 2.5 | | 11:12 | 0.6 | | 11:22 | 1.2 | | | | | |
| | 17:36 | 3.0 | | SEG | 18:38 | | 2.6 | TER | | 18:50 | 2.9 | | QUI | 12:50 | | 1.4 | TER | 17:32 | 3.2 | QUI | 17:40 | 2.7 |
| | 23:28 | 0.9 | | 23:28 | 0.9 | | 23:28 | 0.9 | | 19:12 | 2.5 | | 23:34 | 0.7 | | 23:45 | 1.3 | | | | | |
| 05 | 05:52 | 3.2 | 21 | 00:32 | 1.3 | 05 | 00:51 | 1.0 | 21 | 01:21 | 1.5 | 05 | 05:57 | 3.1 | 21 | 06:03 | 2.5 | | | | | |
| | 12:07 | 0.8 | | 06:55 | 2.7 | | 07:17 | 2.9 | | 07:46 | 2.4 | | 11:59 | 0.9 | | 12:02 | 1.4 | | | | | |
| | 18:26 | 2.9 | | TER | 13:10 | | 1.3 | QUA | | 13:27 | 1.1 | | SEX | 13:59 | | 1.6 | QUA | 18:23 | 3.0 | SEX | 18:28 | 2.5 |
| | | | | ((| 19:25 | | 2.5 |) | | 19:54 | 2.8 | | 20:33 | 2.4 | | | | | | | | |
| 06 | 00:21 | 1.0 | 22 | 01:23 | 1.4 | 06 | 02:03 | 1.2 | 22 | 03:00 | 1.6 | 06 | 00:30 | 1.0 | 22 | 00:41 | 1.4 | | | | | |
| | 06:45 | 3.1 | | 07:47 | 2.5 | | 08:30 | 2.7 | | 09:30 | 2.3 | | 06:56 | 2.8 | | 07:05 | 2.3 | | | | | |
| | 13:02 | 0.9 | | QUA | 14:06 | | 1.4 | QUI | | 14:42 | 1.3 | | SÁB | 15:45 | | 1.6 | QUI | 12:56 | 1.2 | SÁB | 13:05 | 1.6 |
| | 19:24 | 2.8 | | 20:26 | 2.4 | | 21:14 | 2.7 | | 22:14 | 2.4 | | 19:27 | 2.8 | | ((| 19:45 | 2.4 | | | | |
| 07 | 01:22 | 1.1 | 23 | 02:33 | 1.5 | 07 | 03:37 | 1.3 | 23 | 04:50 | 1.5 | 07 | 01:47 | 1.2 | 23 | 02:18 | 1.5 | | | | | |
| | 07:47 | 3.0 | | 08:57 | 2.4 | | 10:00 | 2.6 | | 11:06 | 2.4 | | 08:16 | 2.6 | | 08:51 | 2.3 | | | | | |
| | 14:05 | 1.0 | | QUI | 15:18 | | 1.5 | SEX | | 16:13 | 1.3 | | DOM | 17:13 | | 1.5 | SEX | 14:18 | 1.4 | DOM | 14:59 | 1.6 |
| | 20:30 | 2.8 | | 21:42 | 2.4 | | 22:40 | 2.7 | | 23:28 | 2.6 | | 20:56 | 2.6 | | 21:31 | 2.5 | | | | | |
| 08 | 02:34 | 1.2 | 24 | 03:59 | 1.5 | 08 | 05:11 | 1.2 | 24 | 05:56 | 1.2 | 08 | 03:36 | 1.3 | 24 | 04:14 | 1.4 | | | | | |
| | 08:57 | 2.9 | | 10:20 | 2.4 | | 11:24 | 2.7 | | 12:06 | 2.6 | | 09:59 | 2.5 | | 10:33 | 2.4 | | | | | |
| | 15:16 | 1.1 | | SEX | 16:35 | | 1.5 | SÁB | | 17:33 | 1.2 | | SEG | 18:09 | | 1.2 | SÁB | 16:08 | 1.5 | SEG | 16:38 | 1.5 |
| | 21:42 | 2.8 | | 22:56 | 2.5 | | 23:51 | 2.9 | | 23:51 | 2.9 | | 22:32 | 2.7 | | 22:52 | 2.7 | | | | | |
| 09 | 03:54 | 1.2 | 25 | 05:18 | 1.4 | 09 | 06:20 | 1.0 | 25 | 00:20 | 2.9 | 09 | 05:15 | 1.2 | 25 | 05:23 | 1.2 | | | | | |
| | 10:13 | 2.8 | | 11:31 | 2.5 | | 12:29 | 2.8 | | 06:42 | 1.0 | | 11:26 | 2.6 | | 11:35 | 2.6 | | | | | |
| | 16:29 | 1.1 | | SÁB | 17:39 | | 1.3 | DOM | | 18:32 | 1.1 | | TER | 12:51 | | 2.9 | DOM | 17:33 | 1.3 | TER | 17:38 | 1.2 |
| | 22:52 | 2.9 | | 23:55 | 2.7 | | 23:55 | 2.7 | | 18:52 | 1.0 | | 23:45 | 2.9 | | 23:48 | 2.9 | | | | | |
| 10 | 05:09 | 1.1 | 26 | 06:16 | 1.2 | 10 | 00:47 | 3.1 | 26 | 01:03 | 3.2 | 10 | 06:18 | 1.0 | 26 | 06:11 | 0.9 | | | | | |
| | 11:24 | 2.9 | | 12:25 | 2.7 | | 07:11 | 0.8 | | 07:21 | 0.7 | | 12:24 | 2.7 | | 12:21 | 2.9 | | | | | |
| | 17:35 | 1.0 | | DOM | 18:29 | | 1.2 | SEG | | 13:19 | 2.9 | | QUA | 13:31 | | 3.1 | SEG | 18:26 | 1.1 | QUA | 18:24 | 0.9 |
| | 23:55 | 3.0 | | 19:18 | 0.9 | | 19:18 | 0.9 | | 19:31 | 0.7 | | 19:31 | 0.7 | | | | | | | | |
| 11 | 06:14 | 0.9 | 27 | 00:43 | 2.9 | 11 | 01:33 | 3.3 | 27 | 01:43 | 3.4 | 11 | 00:37 | 3.1 | 27 | 00:33 | 3.2 | | | | | |
| | 12:26 | 2.9 | | 07:02 | 1.0 | | 07:52 | 0.7 | | 07:58 | 0.5 | | 07:01 | 0.9 | | 06:51 | 0.6 | | | | | |
| | 18:32 | 0.9 | | SEG | 13:10 | | 2.8 | TER | | 14:00 | 3.0 | | QUI | 14:09 | | 3.3 | TER | 13:07 | 2.9 | QUI | 13:02 | 3.2 |
| | | | | 19:11 | 1.0 | | 19:56 | 0.8 | | 20:09 | 0.5 | | 19:06 | 1.0 | | 19:04 | 0.7 | | | | | |
| 12 | 00:50 | 3.2 | 28 | 01:25 | 3.1 | 12 | 02:13 | 3.4 | 28 | 02:23 | 3.6 | 12 | 01:18 | 3.2 | 28 | 01:15 | 3.5 | | | | | |
| | 07:09 | 0.8 | | 07:42 | 0.8 | | 08:28 | 0.6 | | 08:35 | 0.3 | | 07:35 | 0.7 | | 07:30 | 0.4 | | | | | |
| | 13:20 | 3.0 | | TER | 13:51 | | 3.0 | QUA | | 14:36 | 3.1 | | SEX | 14:47 | | 3.5 | QUA | 13:42 | 3.0 | SEX | 13:42 | 3.4 |
| | 19:20 | 0.8 | | 19:50 | 0.8 | | 20:30 | 0.7 | | 20:46 | 0.4 | | 19:39 | 0.8 | | 19:44 | 0.4 | | | | | |
| 13 | 01:39 | 3.3 | 29 | 02:05 | 3.3 | 13 | 02:49 | 3.4 | 29 | 02:23 | 3.6 | 13 | 01:53 | 3.3 | 29 | 01:57 | 3.7 | | | | | |
| | 07:56 | 0.6 | | 08:20 | 0.6 | | 09:00 | 0.6 | | 08:05 | 0.6 | | 08:05 | 0.6 | | 08:08 | 0.2 | | | | | |
| | 14:08 | 3.1 | | QUA | 14:31 | | 3.2 | QUI | | 15:10 | 3.2 | | QUI | 14:13 | | 3.2 | SÁB | 14:21 | 3.6 | | | |
| | 20:04 | 0.8 | | ● | 20:28 | | 0.7 | 21:03 | | 0.7 | 20:09 | | 0.7 | ● | | 20:23 | 0.3 | | | | | |
| 14 | 02:23 | 3.4 | 30 | 02:44 | 3.5 | 14 | 03:22 | 3.5 | 30 | 02:24 | 3.4 | 14 | 02:24 | 3.4 | 30 | 02:38 | 3.8 | | | | | |
| | 08:39 | 0.6 | | 08:57 | 0.5 | | 09:30 | 0.6 | | 08:32 | 0.6 | | 08:32 | 0.6 | | 08:46 | 0.2 | | | | | |
| | 14:51 | 3.1 | | QUI | 15:10 | | 3.3 | SEX | | 15:41 | 3.2 | | SEX | 14:42 | | 3.2 | DOM | 15:01 | 3.6 | | | |
| | 20:44 | 0.7 | | 21:06 | 0.6 | | 21:34 | 0.7 | | 21:34 | 0.7 | | 20:37 | 0.6 | | 21:03 | 0.2 | | | | | |
| 15 | 03:05 | 3.4 | 31 | 03:24 | 3.6 | 15 | 03:54 | 3.4 | 31 | 02:54 | 3.4 | 15 | 02:54 | 3.4 | 31 | 03:20 | 3.7 | | | | | |
| | 09:19 | 0.6 | | 09:35 | 0.4 | | 10:00 | 0.6 | | 08:59 | 0.6 | | 08:59 | 0.6 | | 09:26 | 0.3 | | | | | |
| | 15:31 | 3.1 | | SEX | 15:49 | | 3.3 | SÁB | | 16:12 | 3.1 | | SÁB | 15:10 | | 3.2 | SEG | 15:42 | 3.6 | | | |
| | 21:22 | 0.7 | | 21:45 | 0.5 | | 22:04 | 0.7 | | 22:04 | 0.7 | | 21:06 | 0.6 | | 21:45 | 0.3 | | | | | |
| 16 | 03:44 | 3.4 | 16 | 04:24 | 3.3 | 16 | 04:24 | 3.3 | 16 | 03:23 | 3.4 | 16 | 03:23 | 3.4 | 16 | 03:20 | 3.7 | | | | | |
| | 09:56 | 0.6 | | 10:30 | 0.7 | | 10:30 | 0.7 | | 09:26 | 0.6 | | 09:26 | 0.6 | | 09:26 | 0.3 | | | | | |
| | 16:09 | 3.1 | | 16:42 | 3.1 | | 16:42 | 3.1 | | 15:38 | 3.2 | | 15:38 | 3.2 | | 15:42 | 3.6 | | | | | |
| | 21:58 | 0.8 | | 22:35 | 0.8 | | 22:35 | 0.8 | | 21:34 | 0.7 | | 21:34 | 0.7 | | 21:45 | 0.3 | | | | | |

Porto de Lagos

Latitude 37° 05.93' N Longitude 8° 40.10' W

Horas do Fuso: 0 (TU)

Ano: 2025

| ABRIL | | | MAIO | | | | JUNHO | | | | | | | | | | |
|-----------|-------|--------|-----------|--------|------|-----------|-------|--------|-----------|--------|------|-----------|-------|-----|-----------|-------|-----|
| | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | |
| 01 | 04:04 | 3.6 | 17 | 04:24 | 2.9 | 01 | 04:38 | 3.2 | 17 | 04:53 | 2.7 | 01 | 00:01 | 0.9 | 17 | 00:05 | 1.0 |
| | 10:06 | 0.4 | | 10:21 | 1.0 | | 10:32 | 0.8 | | 10:44 | 1.2 | | 06:19 | 2.8 | | 06:24 | 2.8 |
| TER | 16:25 | 3.5 | QUI | 16:39 | 2.9 | QUI | 16:57 | 3.3 | SÁB | 17:10 | 2.9 | DOM | 12:06 | 1.2 | TER | 12:16 | 1.2 |
| | 22:30 | 0.5 | | 22:45 | 1.0 | | 23:11 | 0.7 | | 23:24 | 1.1 | | 18:36 | 3.0 | | 18:41 | 3.0 |
| 02 | 04:51 | 3.3 | 18 | 05:01 | 2.7 | 02 | 05:33 | 2.9 | 18 | 05:43 | 2.6 | 02 | 01:04 | 1.0 | 18 | 01:00 | 1.0 |
| | 10:49 | 0.7 | | 10:56 | 1.2 | | 11:23 | 1.0 | | 11:32 | 1.3 | | 07:20 | 2.6 | | 07:22 | 2.7 |
| QUA | 17:11 | 3.3 | SEX | 17:19 | 2.8 | SEX | 17:53 | 3.1 | DOM | 18:02 | 2.8 | SEG | 13:10 | 1.3 | QUA | 13:17 | 1.2 |
| | 23:19 | 0.7 | | 23:28 | 1.2 | | | | | | | | 19:38 | 2.8 | (| 19:40 | 2.9 |
| 03 | 05:42 | 3.0 | 19 | 05:47 | 2.5 | 03 | 00:14 | 1.0 | 19 | 00:21 | 1.2 | 03 | 02:11 | 1.2 | 19 | 02:02 | 1.0 |
| | 11:37 | 1.0 | | 11:40 | 1.4 | | 06:37 | 2.7 | | 06:43 | 2.5 | | 08:26 | 2.5 | | 08:25 | 2.7 |
| QUI | 18:04 | 3.0 | SÁB | 18:10 | 2.6 | SÁB | 12:25 | 1.3 | SEG | 12:34 | 1.4 | TER | 14:20 | 1.4 | QUI | 14:25 | 1.2 |
| | | | | | | | 18:58 | 2.9 | | 19:04 | 2.8 |) | 20:43 | 2.7 | | 20:45 | 2.9 |
| 04 | 00:19 | 1.0 | 20 | 00:27 | 1.3 | 04 | 01:33 | 1.1 | 20 | 01:30 | 1.2 | 04 | 03:15 | 1.2 | 20 | 03:07 | 1.0 |
| | 06:45 | 2.7 | | 06:52 | 2.4 | | 07:53 | 2.5 | | 07:54 | 2.5 | | 09:30 | 2.5 | | 09:31 | 2.8 |
| SEX | 12:37 | 1.3 | DOM | 12:45 | 1.5 | DOM | 13:46 | 1.4 | TER | 13:50 | 1.4 | QUA | 15:28 | 1.4 | SEX | 15:35 | 1.1 |
| | 19:12 | 2.8 | | 19:22 | 2.6 |) | 20:16 | 2.7 | (| 20:14 | 2.8 | | 21:47 | 2.7 | | 21:53 | 2.9 |
| 05 | 01:42 | 1.2 | 21 | 01:54 | 1.4 | 05 | 03:01 | 1.2 | 21 | 02:44 | 1.1 | 05 | 04:12 | 1.2 | 21 | 04:11 | 0.9 |
| | 08:09 | 2.5 | | 08:24 | 2.4 | | 09:17 | 2.5 | | 09:07 | 2.6 | | 10:27 | 2.6 | | 10:34 | 2.9 |
| SÁB | 14:05 | 1.5 | SEG | 14:22 | 1.5 | SEG | 15:16 | 1.5 | QUA | 15:07 | 1.3 | QUI | 16:28 | 1.3 | SÁB | 16:43 | 1.0 |
|) | 20:41 | 2.7 | (| 20:51 | 2.6 | | 21:37 | 2.7 | | 21:25 | 2.9 | | 22:43 | 2.7 | | 22:58 | 3.0 |
| 06 | 03:31 | 1.3 | 22 | 03:29 | 1.3 | 06 | 04:16 | 1.2 | 22 | 03:51 | 1.0 | 06 | 05:01 | 1.2 | 22 | 05:12 | 0.9 |
| | 09:50 | 2.4 | | 09:51 | 2.5 | | 10:28 | 2.6 | | 10:11 | 2.8 | | 11:15 | 2.7 | | 11:33 | 3.1 |
| DOM | 15:55 | 1.5 | TER | 15:54 | 1.4 | TER | 16:30 | 1.4 | QUI | 16:15 | 1.1 | SEX | 17:19 | 1.2 | DOM | 17:45 | 0.9 |
| | 22:14 | 2.7 | | 22:08 | 2.8 | | 22:43 | 2.8 | | 22:28 | 3.0 | | 23:31 | 2.8 | | 23:58 | 3.1 |
| 07 | 04:58 | 1.2 | 23 | 04:39 | 1.1 | 07 | 05:11 | 1.1 | 23 | 04:49 | 0.9 | 07 | 05:42 | 1.1 | 23 | 06:08 | 0.8 |
| | 11:09 | 2.6 | | 10:55 | 2.7 | | 11:21 | 2.7 | | 11:07 | 3.0 | | 11:56 | 2.8 | | 12:27 | 3.2 |
| SEG | 17:13 | 1.4 | QUA | 16:58 | 1.2 | QUA | 17:23 | 1.2 | SEX | 17:13 | 0.9 | SÁB | 18:02 | 1.2 | SEG | 18:42 | 0.7 |
| | 23:23 | 2.8 | | 23:08 | 3.0 | | 23:33 | 2.9 | | 23:25 | 3.2 | | | | | | |
| 08 | 05:54 | 1.0 | 24 | 05:31 | 0.9 | 08 | 05:53 | 1.0 | 24 | 05:41 | 0.7 | 08 | 00:13 | 2.8 | 24 | 00:55 | 3.2 |
| | 12:01 | 2.7 | | 11:45 | 3.0 | | 12:02 | 2.8 | | 11:58 | 3.2 | | 06:20 | 1.1 | | 07:00 | 0.7 |
| TER | 18:03 | 1.2 | QUI | 17:49 | 0.9 | QUI | 18:03 | 1.1 | SÁB | 18:05 | 0.7 | DOM | 12:34 | 2.9 | TER | 13:19 | 3.4 |
| | | | | 23:59 | 3.2 | | | | | | | | 18:41 | 1.1 | | 19:35 | 0.6 |
| 09 | 00:12 | 3.0 | 25 | 06:16 | 0.6 | 09 | 00:14 | 3.0 | 25 | 00:18 | 3.3 | 09 | 00:52 | 2.8 | 25 | 01:49 | 3.2 |
| | 06:34 | 0.9 | | 12:30 | 3.2 | | 06:26 | 0.9 | | 06:30 | 0.6 | | 06:55 | 1.0 | | 07:48 | 0.7 |
| QUA | 12:40 | 2.9 | SEX | 18:34 | 0.7 | SEX | 12:36 | 2.9 | DOM | 12:46 | 3.4 | SEG | 13:10 | 3.0 | QUA | 14:09 | 3.5 |
| | 18:40 | 1.0 | | | | | 18:38 | 1.0 | | 18:55 | 0.5 | | 19:19 | 1.0 | ● | 20:25 | 0.5 |
| 10 | 00:51 | 3.1 | 26 | 00:45 | 3.5 | 10 | 00:49 | 3.0 | 26 | 01:08 | 3.4 | 10 | 01:30 | 2.9 | 26 | 02:39 | 3.2 |
| | 07:06 | 0.8 | | 06:59 | 0.4 | | 06:57 | 0.9 | | 07:16 | 0.5 | | 07:30 | 0.9 | | 08:35 | 0.7 |
| QUI | 13:13 | 3.0 | SÁB | 13:13 | 3.4 | SÁB | 13:08 | 3.0 | SEG | 13:33 | 3.5 | TER | 13:46 | 3.1 | QUI | 14:57 | 3.5 |
| | 19:12 | 0.9 | | 19:17 | 0.4 | | 19:10 | 0.9 | | 19:43 | 0.4 | | 19:56 | 0.9 | | 21:13 | 0.5 |
| 11 | 01:24 | 3.2 | 27 | 01:30 | 3.6 | 11 | 01:22 | 3.1 | 27 | 01:58 | 3.4 | 11 | 02:07 | 2.9 | 27 | 03:28 | 3.2 |
| | 07:33 | 0.7 | | 07:40 | 0.3 | | 07:26 | 0.8 | | 08:01 | 0.5 | | 08:05 | 0.9 | | 09:20 | 0.7 |
| SEX | 13:42 | 3.1 | DOM | 13:55 | 3.6 | DOM | 13:38 | 3.1 | TER | 14:20 | 3.6 | QUA | 14:22 | 3.1 | SEX | 15:44 | 3.5 |
| | 19:41 | 0.8 | ● | 20:00 | 0.3 | | 19:42 | 0.8 | ● | 20:31 | 0.4 | ○ | 20:33 | 0.9 | | 22:00 | 0.5 |
| 12 | 01:54 | 3.3 | 28 | 02:15 | 3.7 | 12 | 01:54 | 3.1 | 28 | 02:48 | 3.4 | 12 | 02:45 | 2.9 | 28 | 04:16 | 3.1 |
| | 08:00 | 0.7 | | 08:21 | 0.3 | | 07:55 | 0.8 | | 08:46 | 0.5 | | 08:41 | 0.9 | | 10:05 | 0.8 |
| SÁB | 14:10 | 3.2 | SEG | 14:38 | 3.6 | SEG | 14:09 | 3.1 | QUA | 15:07 | 3.5 | QUI | 15:00 | 3.2 | SÁB | 16:30 | 3.4 |
| | 20:09 | 0.7 | | 20:44 | 0.3 | ○ | 20:13 | 0.8 | | 21:20 | 0.4 | | 21:11 | 0.8 | | 22:47 | 0.7 |
| 13 | 02:23 | 3.3 | 29 | 03:01 | 3.6 | 13 | 02:26 | 3.1 | 29 | 03:38 | 3.3 | 13 | 03:23 | 2.9 | 29 | 05:02 | 3.0 |
| | 08:26 | 0.7 | | 09:03 | 0.4 | | 08:26 | 0.8 | | 09:32 | 0.7 | | 09:17 | 0.9 | | 10:50 | 0.9 |
| DOM | 14:38 | 3.2 | TER | 15:22 | 3.6 | TER | 14:40 | 3.2 | QUI | 15:56 | 3.5 | SEX | 15:38 | 3.2 | DOM | 17:16 | 3.3 |
| ○ | 20:38 | 0.7 | | 21:30 | 0.3 | | 20:46 | 0.8 | | 22:10 | 0.5 | | 21:50 | 0.8 | | 23:33 | 0.8 |
| 14 | 02:52 | 3.2 | 30 | 03:48 | 3.4 | 14 | 02:59 | 3.0 | 30 | 04:29 | 3.1 | 14 | 04:04 | 2.9 | 30 | 05:48 | 2.9 |
| | 08:53 | 0.7 | | 09:46 | 0.5 | | 08:57 | 0.9 | | 10:19 | 0.8 | | 09:56 | 1.0 | | 11:36 | 1.0 |
| SEG | 15:06 | 3.2 | QUA | 16:08 | 3.5 | QUA | 15:14 | 3.1 | SEX | 16:46 | 3.3 | SÁB | 16:18 | 3.1 | SEG | 18:02 | 3.1 |
| | 21:07 | 0.7 | | 22:18 | 0.5 | | 21:20 | 0.8 | | 23:03 | 0.7 | | 22:31 | 0.9 | | | |
| 15 | 03:21 | 3.2 | | | | 15 | 03:34 | 2.9 | 31 | 05:22 | 2.9 | 15 | 04:46 | 2.8 | | | |
| | 09:21 | 0.8 | | | | | 09:29 | 0.9 | | 11:10 | 1.0 | | 10:37 | 1.0 | | | |
| TER | 15:35 | 3.2 | | | | QUI | 15:49 | 3.1 | SÁB | 17:39 | 3.2 | DOM | 17:01 | 3.1 | | | |
| | 21:37 | 0.8 | | | | | 21:57 | 0.9 | | | | | 23:15 | 0.9 | | | |
| 16 | 03:52 | 3.0 | | | | 16 | 04:11 | 2.8 | | | | 16 | 05:33 | 2.8 | | | |
| | 09:50 | 0.9 | | | | | 10:05 | 1.0 | | | | | 11:23 | 1.1 | | | |
| QUA | 16:06 | 3.1 | | | | SEX | 16:27 | 3.0 | | | | | 17:48 | 3.0 | | | |
| | 22:10 | 0.9 | | | | | 22:37 | 1.0 | | | | | | | | | |

Porto de Lagos

Latitude 37° 05.93' N Longitude 8° 40.10' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JULHO | | | | AGOSTO | | | | SETEMBRO | | | | | | | | | |
|-----------|-------|--------|-----------|--------|--------|-----------|--------|----------|-----------|-------|--------|-----------|-------|-----|-----------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 00:21 | 1.0 | 17 | 00:28 | 0.8 | 01 | 00:54 | 1.2 | 17 | 01:59 | 1.2 | 01 | 01:47 | 1.6 | 17 | 04:56 | 1.3 |
| | 06:35 | 2.7 | | 06:49 | 2.9 | | 07:11 | 2.6 | | 08:31 | 2.7 | | 08:22 | 2.4 | | 11:10 | 2.9 |
| TER | 12:24 | 1.2 | QUI | 12:46 | 1.0 | SEX | 13:08 | 1.4 | DOM | 14:51 | 1.2 | SEG | 14:52 | 1.6 | QUA | 17:45 | 1.0 |
| | 18:50 | 2.9 | | 19:09 | 3.0 |) | 19:30 | 2.6 | | 21:16 | 2.6 | | 21:19 | 2.3 | | 23:53 | 2.8 |
| 02 | 01:11 | 1.1 | 18 | 01:24 | 1.0 | 02 | 01:46 | 1.4 | 18 | 03:26 | 1.3 | 02 | 03:33 | 1.6 | 18 | 05:56 | 1.1 |
| | 07:26 | 2.6 | | 07:48 | 2.8 | | 08:08 | 2.5 | | 09:57 | 2.7 | | 10:03 | 2.4 | | 12:07 | 3.1 |
| QUA | 13:17 | 1.3 | SEX | 13:50 | 1.1 | SÁB | 14:13 | 1.5 | SEG | 16:28 | 1.2 | TER | 16:40 | 1.5 | QUI | 18:33 | 0.8 |
|) | 19:42 | 2.8 | (| 20:13 | 2.9 | | 20:36 | 2.4 | | 22:44 | 2.6 | | 22:54 | 2.4 | | | |
| 03 | 02:04 | 1.2 | 19 | 02:29 | 1.1 | 03 | 02:54 | 1.5 | 19 | 04:53 | 1.3 | 03 | 04:59 | 1.5 | 19 | 00:39 | 2.9 |
| | 08:21 | 2.5 | | 08:56 | 2.8 | | 09:22 | 2.4 | | 11:15 | 2.9 | | 11:15 | 2.6 | | 06:40 | 0.9 |
| QUI | 14:17 | 1.4 | SÁB | 15:05 | 1.2 | DOM | 15:39 | 1.5 | TER | 17:46 | 1.0 | QUA | 17:43 | 1.3 | SEX | 12:51 | 3.3 |
| | 20:40 | 2.6 | | 21:27 | 2.8 | | 22:00 | 2.4 | | 23:56 | 2.8 | | 23:52 | 2.6 | | 19:11 | 0.7 |
| 04 | 03:01 | 1.3 | 20 | 03:42 | 1.1 | 04 | 04:13 | 1.5 | 20 | 06:00 | 1.1 | 04 | 05:53 | 1.3 | 20 | 01:17 | 3.1 |
| | 09:21 | 2.5 | | 10:09 | 2.8 | | 10:39 | 2.5 | | 12:16 | 3.1 | | 12:04 | 2.9 | | 07:16 | 0.8 |
| SEX | 15:23 | 1.4 | DOM | 16:26 | 1.1 | SEG | 17:02 | 1.4 | QUA | 18:43 | 0.8 | QUI | 18:27 | 1.0 | SÁB | 13:29 | 3.4 |
| | 21:43 | 2.6 | | 22:43 | 2.8 | | 23:16 | 2.4 | | | | | | | | 19:43 | 0.6 |
| 05 | 04:00 | 1.3 | 21 | 04:54 | 1.1 | 05 | 05:22 | 1.4 | 21 | 00:51 | 2.9 | 05 | 00:34 | 2.8 | 21 | 01:51 | 3.2 |
| | 10:21 | 2.5 | | 11:18 | 3.0 | | 11:41 | 2.6 | | 06:51 | 0.9 | | 06:34 | 1.0 | | 07:48 | 0.7 |
| SÁB | 16:29 | 1.4 | SEG | 17:39 | 1.0 | TER | 18:03 | 1.3 | QUI | 13:06 | 3.3 | SEX | 12:45 | 3.1 | DOM | 14:03 | 3.4 |
| | 22:45 | 2.5 | | 23:52 | 2.9 | | | | | 19:28 | 0.7 | | 19:03 | 0.8 | ● | 20:12 | 0.6 |
| 06 | 04:57 | 1.3 | 22 | 05:59 | 1.0 | 06 | 00:12 | 2.6 | 22 | 01:36 | 3.1 | 06 | 01:11 | 3.0 | 22 | 02:22 | 3.2 |
| | 11:16 | 2.6 | | 12:19 | 3.1 | | 06:14 | 1.2 | | 07:33 | 0.8 | | 07:11 | 0.8 | | 08:18 | 0.6 |
| DOM | 17:28 | 1.3 | TER | 18:41 | 0.8 | QUA | 12:29 | 2.8 | SEX | 13:49 | 3.4 | SÁB | 13:23 | 3.3 | SEG | 14:34 | 3.4 |
| | 23:40 | 2.6 | | | | | 18:49 | 1.1 | | 20:06 | 0.6 | | 19:38 | 0.6 | | 20:40 | 0.6 |
| 07 | 05:47 | 1.2 | 23 | 00:52 | 3.0 | 07 | 00:57 | 2.7 | 23 | 02:15 | 3.2 | 07 | 01:47 | 3.2 | 23 | 02:51 | 3.3 |
| | 12:05 | 2.7 | | 06:54 | 0.9 | | 06:57 | 1.1 | | 08:10 | 0.7 | | 07:47 | 0.6 | | 08:47 | 0.6 |
| SEG | 18:19 | 1.2 | QUA | 13:13 | 3.3 | QUI | 13:11 | 3.0 | SÁB | 14:27 | 3.5 | DOM | 14:00 | 3.5 | TER | 15:05 | 3.4 |
| | | | | 19:33 | 0.7 | | 19:28 | 0.9 | ● | 20:41 | 0.5 | ○ | 20:12 | 0.4 | | 21:08 | 0.6 |
| 08 | 00:29 | 2.7 | 24 | 01:44 | 3.1 | 08 | 01:36 | 2.9 | 24 | 02:50 | 3.2 | 08 | 02:23 | 3.4 | 24 | 03:20 | 3.2 |
| | 06:32 | 1.2 | | 07:41 | 0.8 | | 07:35 | 0.9 | | 08:44 | 0.6 | | 08:23 | 0.5 | | 09:17 | 0.7 |
| TER | 12:48 | 2.9 | QUI | 14:01 | 3.4 | SEX | 13:49 | 3.2 | DOM | 15:03 | 3.5 | SEG | 14:37 | 3.7 | QUA | 15:34 | 3.3 |
| | 19:03 | 1.1 | ● | 20:19 | 0.5 | | 20:04 | 0.7 | | 21:13 | 0.5 | | 20:48 | 0.3 | | 21:36 | 0.7 |
| 09 | 01:13 | 2.8 | 25 | 02:31 | 3.2 | 09 | 02:13 | 3.1 | 25 | 03:24 | 3.2 | 09 | 03:00 | 3.5 | 25 | 03:49 | 3.1 |
| | 07:12 | 1.1 | | 08:25 | 0.7 | | 08:11 | 0.7 | | 09:17 | 0.6 | | 09:00 | 0.4 | | 09:47 | 0.8 |
| QUA | 13:29 | 3.0 | SEX | 14:45 | 3.5 | SÁB | 14:26 | 3.4 | SEG | 15:37 | 3.4 | TER | 15:16 | 3.7 | QUI | 16:04 | 3.1 |
| | 19:44 | 0.9 | | 21:01 | 0.5 | ○ | 20:40 | 0.6 | | 21:44 | 0.6 | | 21:24 | 0.3 | | 22:04 | 0.8 |
| 10 | 01:53 | 2.9 | 26 | 03:13 | 3.2 | 10 | 02:50 | 3.2 | 26 | 03:56 | 3.2 | 10 | 03:39 | 3.5 | 26 | 04:19 | 3.0 |
| | 07:51 | 1.0 | | 09:05 | 0.7 | | 08:47 | 0.6 | | 09:49 | 0.7 | | 09:38 | 0.4 | | 10:18 | 0.9 |
| QUI | 14:08 | 3.1 | SÁB | 15:27 | 3.5 | DOM | 15:03 | 3.5 | TER | 16:09 | 3.3 | QUA | 15:57 | 3.6 | SEX | 16:34 | 2.9 |
| ○ | 20:22 | 0.8 | | 21:41 | 0.5 | | 21:15 | 0.5 | | 22:14 | 0.7 | | 22:03 | 0.4 | | 22:34 | 1.0 |
| 11 | 02:32 | 2.9 | 27 | 03:53 | 3.2 | 11 | 03:27 | 3.3 | 27 | 04:28 | 3.1 | 11 | 04:20 | 3.4 | 27 | 04:51 | 2.9 |
| | 08:28 | 0.9 | | 09:44 | 0.7 | | 09:24 | 0.6 | | 10:21 | 0.8 | | 10:20 | 0.5 | | 10:52 | 1.1 |
| SEX | 14:46 | 3.2 | DOM | 16:07 | 3.5 | SEG | 15:41 | 3.5 | QUA | 16:41 | 3.2 | QUI | 16:40 | 3.4 | SÁB | 17:08 | 2.7 |
| | 21:00 | 0.7 | | 22:19 | 0.6 | | 21:52 | 0.4 | | 22:45 | 0.8 | | 22:44 | 0.6 | | 23:07 | 1.2 |
| 12 | 03:11 | 3.0 | 28 | 04:32 | 3.1 | 12 | 04:06 | 3.3 | 28 | 04:59 | 3.0 | 12 | 05:03 | 3.3 | 28 | 05:27 | 2.7 |
| | 09:05 | 0.8 | | 10:21 | 0.8 | | 10:02 | 0.6 | | 10:54 | 1.0 | | 11:05 | 0.7 | | 11:33 | 1.3 |
| SÁB | 15:24 | 3.3 | SEG | 16:45 | 3.3 | TER | 16:21 | 3.5 | QUI | 17:13 | 3.0 | SEX | 17:28 | 3.2 | DOM | 17:50 | 2.5 |
| | 21:37 | 0.7 | | 22:56 | 0.7 | | 22:30 | 0.5 | | 23:17 | 1.0 | | 23:29 | 0.8 | | 23:48 | 1.4 |
| 13 | 03:50 | 3.1 | 29 | 05:09 | 3.0 | 13 | 04:46 | 3.3 | 29 | 05:32 | 2.8 | 13 | 05:53 | 3.1 | 29 | 06:17 | 2.5 |
| | 09:43 | 0.8 | | 10:59 | 0.9 | | 10:42 | 0.6 | | 11:29 | 1.1 | | 11:59 | 0.9 | | 12:31 | 1.5 |
| DOM | 16:03 | 3.3 | TER | 17:22 | 3.2 | QUA | 17:03 | 3.4 | SEX | 17:48 | 2.7 | SÁB | 18:25 | 2.9 | SEG | 18:55 | 2.3 |
| | 22:15 | 0.7 | | 23:32 | 0.9 | | 23:11 | 0.6 | | 23:53 | 1.2 | | | |) | | |
| 14 | 04:30 | 3.1 | 30 | 05:46 | 2.9 | 14 | 05:30 | 3.1 | 30 | 06:11 | 2.6 | 14 | 00:24 | 1.1 | 30 | 00:54 | 1.6 |
| | 10:23 | 0.8 | | 11:37 | 1.0 | | 11:27 | 0.8 | | 12:11 | 1.3 | | 06:55 | 2.8 | | 07:36 | 2.4 |
| SEG | 16:44 | 3.3 | QUA | 18:00 | 3.0 | QUI | 17:49 | 3.2 | SÁB | 18:31 | 2.5 | DOM | 13:12 | 1.2 | TER | 14:14 | 1.6 |
| | 22:56 | 0.7 | | | | | 23:57 | 0.8 | | | | (| 19:40 | 2.6 | | 20:43 | 2.2 |
| 15 | 05:12 | 3.0 | 31 | 00:11 | 1.1 | 15 | 06:18 | 3.0 | 31 | 00:38 | 1.4 | 15 | 01:41 | 1.3 | 15 | 01:41 | 1.3 |
| | 11:05 | 0.9 | | 06:26 | 2.7 | | 12:19 | 1.0 | | 07:02 | 2.5 | | 08:18 | 2.7 | | 08:18 | 2.7 |
| TER | 17:27 | 3.3 | QUI | 12:19 | 1.2 | SEX | 18:43 | 3.0 | DOM | 13:11 | 1.5 | SEG | 14:54 | 1.3 | | 14:54 | 1.3 |
| | 23:40 | 0.7 | | 18:41 | 2.8 | | | |) | 19:35 | 2.3 | | 21:18 | 2.5 | | 21:18 | 2.5 |
| 16 | 05:58 | 3.0 | | | | 16 | 00:51 | 1.0 | 16 | 03:26 | 1.4 | 16 | 03:26 | 1.4 | | 09:53 | 2.7 |
| | 11:52 | 0.9 | | | | | 07:17 | 2.8 | | 09:53 | 2.7 | | 16:36 | 1.2 | | 16:36 | 1.2 |
| QUA | 18:15 | 3.1 | | | | SÁB | 13:24 | 1.1 | | 22:49 | 2.6 | | | | | | |
| | | | | | | (| 19:50 | 2.8 | | | | | | | | | |

Porto de Lagos

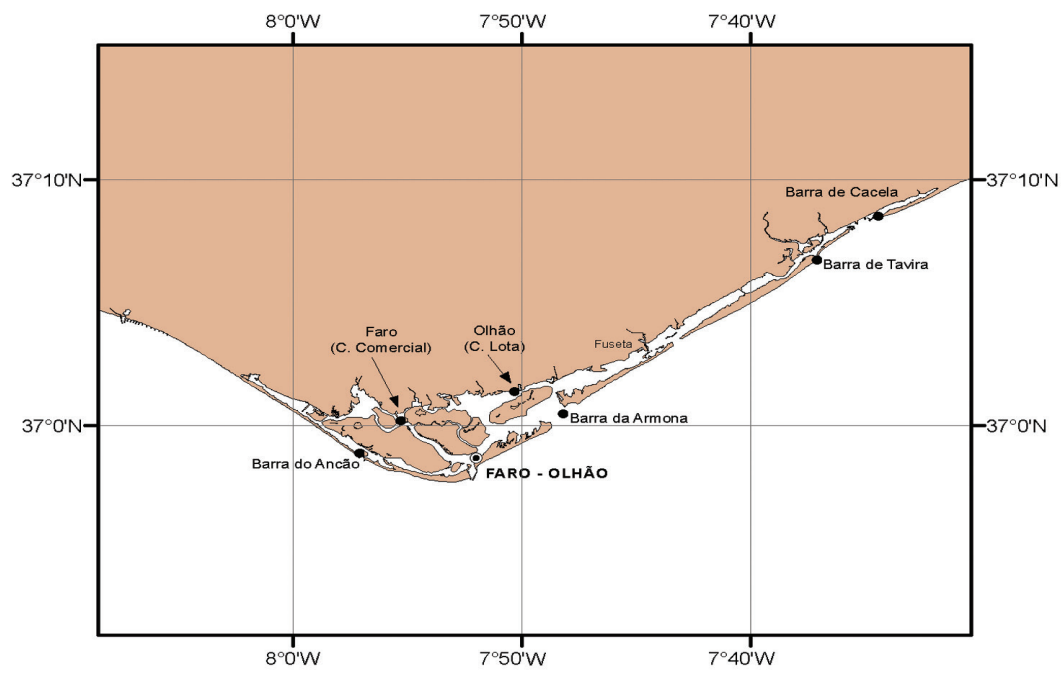
Latitude 37° 05.93' N Longitude 8° 40.10' W

Horas do Fuso: 0 (TU)

Ano: 2025

| OUTUBRO | | | | NOVEMBRO | | | | DEZEMBRO | | | | | | | | | |
|-----------|-------|--------|-----------|----------|--------|-----------|--------|----------|-----------|-------|--------|-----------|-------|-----|-----------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 02:50 | 1.6 | 17 | 05:35 | 1.1 | 01 | 04:35 | 1.2 | 17 | 00:19 | 2.9 | 01 | 04:45 | 1.0 | 17 | 00:24 | 2.8 |
| | 09:20 | 2.4 | | 11:45 | 3.0 | | 10:45 | 2.9 | | 06:22 | 1.0 | | 10:57 | 3.1 | | 06:33 | 1.1 |
| | 16:05 | 1.5 | SEX | 18:09 | 0.9 | SÁB | 17:09 | 0.9 | SEG | 12:33 | 3.0 | SEG | 17:14 | 0.8 | QUA | 12:44 | 2.8 |
| | 22:21 | 2.4 | | | | | 23:21 | 2.9 | | 18:41 | 0.9 | | 23:31 | 3.1 | | 18:46 | 1.0 |
| 02 | 04:24 | 1.5 | 18 | 00:16 | 2.9 | 02 | 05:25 | 1.0 | 18 | 00:52 | 3.0 | 02 | 05:39 | 0.8 | 18 | 01:02 | 2.9 |
| | 10:37 | 2.6 | | 06:17 | 1.0 | | 11:34 | 3.1 | | 06:55 | 0.9 | | 11:51 | 3.2 | | 07:10 | 1.0 |
| | 17:08 | 1.2 | SÁB | 12:27 | 3.2 | DOM | 17:52 | 0.7 | TER | 13:07 | 3.1 | TER | 18:04 | 0.7 | QUI | 13:21 | 2.9 |
| | 23:18 | 2.6 | | 18:44 | 0.8 | | | | | 19:11 | 0.8 | | | | | 19:21 | 1.0 |
| 03 | 05:20 | 1.3 | 19 | 00:51 | 3.0 | 03 | 00:04 | 3.1 | 19 | 01:24 | 3.1 | 03 | 00:20 | 3.3 | 19 | 01:37 | 3.0 |
| | 11:29 | 2.9 | | 06:51 | 0.8 | | 06:09 | 0.7 | | 07:27 | 0.8 | | 06:29 | 0.6 | | 07:47 | 0.9 |
| | 17:52 | 1.0 | DOM | 13:03 | 3.2 | SEG | 12:19 | 3.4 | QUA | 13:39 | 3.1 | QUA | 12:42 | 3.4 | SEX | 13:58 | 2.9 |
| | | | | 19:13 | 0.7 | | 18:33 | 0.5 | | 19:40 | 0.8 | | 18:51 | 0.5 | | 19:56 | 0.9 |
| 04 | 00:01 | 2.9 | 20 | 01:22 | 3.1 | 04 | 00:46 | 3.4 | 20 | 01:55 | 3.1 | 04 | 01:07 | 3.4 | 20 | 02:13 | 3.1 |
| | 06:03 | 1.0 | | 07:22 | 0.7 | | 06:52 | 0.5 | | 07:59 | 0.8 | | 07:18 | 0.5 | | 08:23 | 0.9 |
| | 12:12 | 3.2 | SEG | 13:35 | 3.3 | TER | 13:04 | 3.5 | QUI | 14:11 | 3.0 | QUI | 13:32 | 3.4 | SÁB | 14:34 | 2.9 |
| | 18:30 | 0.7 | | 19:41 | 0.7 | | 19:14 | 0.4 | ● | 20:11 | 0.8 | ○ | 19:37 | 0.5 | ● | 20:30 | 0.9 |
| 05 | 00:39 | 3.1 | 21 | 01:51 | 3.2 | 05 | 01:28 | 3.5 | 21 | 02:26 | 3.2 | 05 | 01:55 | 3.6 | 21 | 02:49 | 3.2 |
| | 06:41 | 0.7 | | 07:51 | 0.7 | | 07:34 | 0.4 | | 08:32 | 0.8 | | 08:06 | 0.4 | | 08:59 | 0.8 |
| | 12:51 | 3.4 | TER | 14:05 | 3.3 | QUA | 13:48 | 3.6 | SEX | 14:44 | 3.0 | SEX | 14:22 | 3.4 | DOM | 15:11 | 2.9 |
| | 19:06 | 0.5 | ● | 20:08 | 0.7 | ○ | 19:55 | 0.3 | | 20:42 | 0.9 | | 20:22 | 0.5 | | 21:05 | 0.9 |
| 06 | 01:17 | 3.3 | 22 | 02:20 | 3.2 | 06 | 02:11 | 3.6 | 22 | 02:59 | 3.1 | 06 | 02:42 | 3.6 | 22 | 03:25 | 3.2 |
| | 07:19 | 0.5 | | 08:20 | 0.7 | | 08:17 | 0.3 | | 09:06 | 0.8 | | 08:55 | 0.4 | | 09:35 | 0.8 |
| | 13:31 | 3.6 | QUA | 14:35 | 3.2 | QUI | 14:33 | 3.6 | SÁB | 15:19 | 2.9 | SÁB | 15:12 | 3.4 | SEG | 15:48 | 2.9 |
| | 19:42 | 0.3 | | 20:35 | 0.7 | | 20:36 | 0.4 | | 21:15 | 0.9 | | 21:08 | 0.6 | | 21:41 | 0.9 |
| 07 | 01:54 | 3.5 | 23 | 02:49 | 3.2 | 07 | 02:55 | 3.6 | 23 | 03:34 | 3.1 | 07 | 03:31 | 3.6 | 23 | 04:02 | 3.2 |
| | 07:57 | 0.4 | | 08:50 | 0.7 | | 09:03 | 0.3 | | 09:42 | 0.9 | | 09:45 | 0.4 | | 10:13 | 0.9 |
| | 14:11 | 3.7 | QUI | 15:04 | 3.1 | SEX | 15:21 | 3.5 | DOM | 15:55 | 2.8 | DOM | 16:03 | 3.2 | TER | 16:26 | 2.9 |
| | 20:20 | 0.2 | | 21:04 | 0.8 | | 21:20 | 0.5 | | 21:49 | 1.0 | | 21:56 | 0.7 | | 22:18 | 1.0 |
| 08 | 02:34 | 3.6 | 24 | 03:19 | 3.1 | 08 | 03:41 | 3.5 | 24 | 04:11 | 3.0 | 08 | 04:21 | 3.5 | 24 | 04:41 | 3.1 |
| | 08:36 | 0.3 | | 09:21 | 0.8 | | 09:51 | 0.4 | | 10:21 | 1.0 | | 10:37 | 0.6 | | 10:52 | 0.9 |
| | 14:52 | 3.7 | SEX | 15:35 | 3.0 | SÁB | 16:11 | 3.3 | SEG | 16:36 | 2.7 | SEG | 16:56 | 3.1 | QUA | 17:07 | 2.8 |
| | 20:58 | 0.3 | | 21:33 | 0.9 | | 22:05 | 0.7 | | 22:27 | 1.1 | | 22:45 | 0.9 | | 22:59 | 1.0 |
| 09 | 03:14 | 3.6 | 25 | 03:50 | 3.0 | 09 | 04:30 | 3.4 | 25 | 04:52 | 2.9 | 09 | 05:13 | 3.3 | 25 | 05:23 | 3.1 |
| | 09:17 | 0.3 | | 09:54 | 0.9 | | 10:44 | 0.6 | | 11:05 | 1.1 | | 11:33 | 0.8 | | 11:36 | 1.0 |
| | 15:36 | 3.6 | SÁB | 16:08 | 2.9 | DOM | 17:05 | 3.0 | TER | 17:22 | 2.6 | TER | 17:51 | 2.9 | QUI | 17:52 | 2.8 |
| | 21:38 | 0.4 | | 22:05 | 1.0 | | 22:56 | 0.9 | | 23:11 | 1.3 | | 23:39 | 1.0 | | 23:44 | 1.1 |
| 10 | 03:57 | 3.5 | 26 | 04:24 | 2.9 | 10 | 05:26 | 3.2 | 26 | 05:40 | 2.8 | 10 | 06:09 | 3.1 | 26 | 06:09 | 3.0 |
| | 10:02 | 0.4 | | 10:30 | 1.1 | | 11:45 | 0.9 | | 11:57 | 1.2 | | 12:34 | 0.9 | | 12:24 | 1.0 |
| | 16:22 | 3.4 | DOM | 16:45 | 2.7 | SEG | 18:08 | 2.8 | QUA | 18:17 | 2.5 | QUA | 18:50 | 2.7 | SEX | 18:44 | 2.7 |
| | 22:21 | 0.6 | | 22:39 | 1.2 | | 23:56 | 1.2 | | | | | | | | | |
| 11 | 04:43 | 3.3 | 27 | 05:03 | 2.8 | 11 | 06:30 | 3.0 | 27 | 00:07 | 1.4 | 11 | 00:40 | 1.2 | 27 | 00:38 | 1.2 |
| | 10:51 | 0.7 | | 11:13 | 1.2 | | 13:01 | 1.1 | | 06:37 | 2.7 | | 07:09 | 3.0 | | 07:03 | 2.9 |
| | 17:14 | 3.1 | SEG | 17:31 | 2.5 | TER | 19:21 | 2.6 | QUI | 13:01 | 1.3 | QUI | 13:39 | 1.1 | SÁB | 13:21 | 1.1 |
| | 23:09 | 0.9 | | 23:23 | 1.4 | | | | | 19:22 | 2.5 | ((| 19:54 | 2.6 |)) | 19:43 | 2.7 |
| 12 | 05:36 | 3.1 | 28 | 05:54 | 2.6 | 12 | 01:13 | 1.3 | 28 | 01:16 | 1.4 | 12 | 01:48 | 1.3 | 28 | 01:41 | 1.2 |
| | 11:50 | 0.9 | | 12:12 | 1.4 | | 07:45 | 2.8 | | 07:44 | 2.7 | | 08:14 | 2.8 | | 08:05 | 2.9 |
| | 18:16 | 2.8 | TER | 18:35 | 2.4 | QUA | 14:28 | 1.1 | SEX | 14:12 | 1.2 | SEX | 14:46 | 1.2 | DOM | 14:25 | 1.1 |
| | | | | | | ((| 20:43 | 2.5 |)) | 20:34 | 2.5 | | 21:01 | 2.6 | | 20:49 | 2.7 |
| 13 | 00:08 | 1.2 | 29 | 00:26 | 1.5 | 13 | 02:43 | 1.4 | 29 | 02:33 | 1.4 | 13 | 03:00 | 1.4 | 29 | 02:53 | 1.2 |
| | 06:42 | 2.9 | | 07:05 | 2.5 | | 09:05 | 2.8 | | 08:53 | 2.8 | | 09:22 | 2.7 | | 09:14 | 2.8 |
| | 13:10 | 1.1 | QUA | 13:38 | 1.5 | QUI | 15:47 | 1.1 | SÁB | 15:21 | 1.1 | SÁB | 15:50 | 1.2 | SEG | 15:34 | 1.1 |
| | ((| 19:36 |)) | 20:03 | 2.3 | | 21:58 | 2.6 | | 21:40 | 2.7 | | 22:04 | 2.6 | | 21:58 | 2.8 |
| 14 | 01:31 | 1.4 | 30 | 02:02 | 1.6 | 14 | 04:01 | 1.3 | 30 | 03:44 | 1.2 | 14 | 04:07 | 1.3 | 30 | 04:07 | 1.1 |
| | 08:07 | 2.7 | | 08:31 | 2.5 | | 10:15 | 2.8 | | 09:58 | 2.9 | | 10:24 | 2.7 | | 10:25 | 2.9 |
| | 14:54 | 1.2 | QUI | 15:11 | 1.4 | SEX | 16:47 | 1.1 | DOM | 16:21 | 1.0 | DOM | 16:44 | 1.2 | TER | 16:41 | 1.0 |
| | 21:13 | 2.5 | | 21:30 | 2.4 | | 22:57 | 2.7 | | 22:39 | 2.9 | | 22:58 | 2.7 | | 23:02 | 3.0 |
| 15 | 03:18 | 1.4 | 31 | 03:32 | 1.5 | 15 | 05:00 | 1.2 | 15 | 05:00 | 1.2 | 15 | 05:04 | 1.3 | 31 | 05:16 | 1.0 |
| | 09:39 | 2.8 | | 09:47 | 2.7 | | 11:11 | 2.9 | | 11:11 | 2.9 | | 11:17 | 2.7 | | 11:31 | 3.0 |
| | 16:24 | 1.1 | SEX | 16:18 | 1.2 | SÁB | 17:33 | 1.0 | SEG | 17:30 | 1.2 | SEG | 17:30 | 1.2 | QUA | 17:42 | 0.9 |
| | 22:36 | 2.6 | | 22:33 | 2.6 | | 23:42 | 2.8 | | 23:44 | 2.7 | | 23:44 | 2.7 | | | |
| 16 | 04:40 | 1.3 | | | | 16 | 05:45 | 1.1 | 16 | 05:51 | 1.2 | 16 | 05:51 | 1.2 | | | |
| | 10:52 | 2.9 | | | | | 11:55 | 3.0 | | 12:03 | 2.8 | | 12:03 | 2.8 | | | |
| | 17:25 | 1.0 | | | | DOM | 18:10 | 0.9 | | 18:10 | 1.1 | | 18:10 | 1.1 | | | |
| | 23:33 | 2.8 | | | | | | | | | | | | | | | |

FARO-OLHÃO



BARRA DE FARO-OLHÃO

NOTAS

1. ANÁLISE HARMÓNICA:

— Efetuada a partir de um ano de observações maregráficas, de 27 de novembro de 2003 a 25 de novembro de 2004.

2. LOCALIZAÇÃO DO MARÉGRAFO (ATUALMENTE DESATIVADO):

— No cais da Ilha da Culatra:

Latitude 36° 58,69' N; Longitude 7° 51,97' W – WGS84.

3. ALTURAS DE MARÉ:

— Referidas ao nível do zero hidrográfico.

— Nível médio: 2,00 m.

4. ZERO HIDROGRÁFICO:

— 2,00 m abaixo do nível médio adotado (Cascais, 1938).

— 4,45 m abaixo da marca de nivelamento 4/79 colocada no início do pontão de acesso ao cais da Ilha da Culatra.

— 4,95 m abaixo da marca de nivelamento 7/79 colocada na raiz do cais dos Betuneiros, em Faro.

— 4,80 m abaixo da marca de nivelamento 1/79 colocada na raiz do cais da Lota de Olhão.

— 16,836 m abaixo da marca de nivelamento principal NP71 (IGP) colocada na soleira da porta principal da Igreja do Carmo em Faro.

Porto de Faro-Olhão

Latitude 36° 58.69' N Longitude 7° 51.97' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JANEIRO | | | | FEVEREIRO | | | | MARÇO | | | | | | | | | | | | | | | |
|-----------|-------|--------|-----------|-----------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-------|-----------|-------|-------|-------|-------|-----|-------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | | | | | | | |
| 01 | 03:17 | 3.3 | 17 | 04:40 | 3.3 | 01 | 04:24 | 3.5 | 17 | 05:11 | 3.1 | 01 | 03:23 | 3.7 | 17 | 04:09 | 3.2 | | | | | | |
| | 09:16 | 0.7 | | 10:38 | 0.7 | | 10:20 | 0.4 | | 11:02 | 0.9 | | 09:19 | 0.2 | | 09:58 | 0.7 | | | | | | |
| | 15:38 | 3.0 | | SEX | 16:56 | | 2.9 | SÁB | | 16:46 | 3.3 | | SEG | 17:25 | | 2.9 | SÁB | 15:43 | 3.5 | SEG | 16:22 | 3.1 | |
| | 21:23 | 0.7 | | 22:40 | 0.8 | | 22:31 | 0.5 | | 23:11 | 0.9 | | 21:31 | 0.3 | | 22:09 | 0.7 | | | | | | |
| 02 | 03:57 | 3.3 | 18 | 05:15 | 3.2 | 02 | 05:06 | 3.5 | 18 | 05:41 | 2.9 | 02 | 04:03 | 3.7 | 18 | 04:37 | 3.1 | | | | | | |
| | 09:56 | 0.6 | | 11:12 | 0.8 | | 11:01 | 0.4 | | 11:33 | 1.0 | | 09:57 | 0.2 | | 10:25 | 0.8 | | | | | | |
| | QUI | 16:19 | | 3.1 | SÁB | | 17:31 | 2.8 | | DOM | 17:28 | | 3.2 | TER | | 17:58 | 2.8 | DOM | 16:23 | 3.4 | TER | 16:51 | 3.0 |
| | 22:04 | 0.7 | | 23:14 | 1.0 | | 23:13 | 0.6 | | 23:46 | 1.1 | | 22:10 | 0.3 | | 22:39 | 0.9 | | | | | | |
| 03 | 04:40 | 3.3 | 19 | 05:50 | 3.0 | 03 | 05:49 | 3.4 | 19 | 06:15 | 2.7 | 03 | 04:44 | 3.6 | 19 | 05:06 | 2.9 | | | | | | |
| | 10:38 | 0.6 | | 11:46 | 1.0 | | 11:43 | 0.6 | | 12:09 | 1.2 | | 10:36 | 0.3 | | 10:53 | 1.0 | | | | | | |
| | SEX | 17:03 | | 3.0 | DOM | | 18:07 | 2.7 | | SEG | 18:13 | | 3.1 | QUA | | 18:37 | 2.6 | SEG | 17:04 | 3.3 | QUA | 17:21 | 2.9 |
| | 22:47 | 0.7 | | 23:50 | 1.1 | | 23:58 | 0.7 | | 23:58 | 0.7 | | 22:51 | 0.4 | | 23:12 | 1.1 | | | | | | |
| 04 | 05:24 | 3.3 | 20 | 06:26 | 2.8 | 04 | 06:37 | 3.2 | 20 | 00:30 | 1.3 | 04 | 05:27 | 3.4 | 20 | 05:37 | 2.7 | | | | | | |
| | 11:23 | 0.7 | | 12:23 | 1.1 | | 12:31 | 0.8 | | 06:57 | 2.5 | | 11:16 | 0.6 | | 11:26 | 1.2 | | | | | | |
| | 17:50 | 3.0 | | SEG | 18:48 | | 2.6 | TER | | 19:04 | 2.9 | | TER | 17:48 | | 3.2 | QUI | 17:56 | 2.7 | | | | |
| | 23:33 | 0.8 | | 23:50 | 1.1 | | 23:58 | 0.7 | | 23:58 | 0.7 | | 23:35 | 0.7 | | 23:53 | 1.2 | | | | | | |
| 05 | 06:11 | 3.2 | 21 | 00:33 | 1.3 | 05 | 00:51 | 1.0 | 21 | 01:31 | 1.5 | 05 | 06:14 | 3.1 | 21 | 06:16 | 2.5 | | | | | | |
| | 12:11 | 0.8 | | 07:09 | 2.7 | | 07:32 | 2.9 | | 08:04 | 2.4 | | 12:01 | 0.9 | | 12:07 | 1.4 | | | | | | |
| | DOM | 18:41 | | 2.9 | TER | | 13:08 | 1.3 | | QUA | 13:27 | | 1.1 | SEX | | 14:04 | 1.5 | QUA | 18:37 | 3.0 | SEX | 18:43 | 2.6 |
| | | | | | ((| | 19:39 | 2.5 | |) | 20:05 | | 2.7 | 20:57 | | 2.4 | | | | | | | |
| 06 | 00:25 | 1.0 | 22 | 01:26 | 1.4 | 06 | 01:59 | 1.2 | 22 | 03:12 | 1.6 | 06 | 00:28 | 0.9 | 22 | 00:50 | 1.4 | | | | | | |
| | 07:04 | 3.1 | | 08:04 | 2.5 | | 08:43 | 2.7 | | 09:47 | 2.3 | | 07:10 | 2.8 | | 07:16 | 2.4 | | | | | | |
| | SEG | 13:05 | | 0.9 | QUA | | 14:06 | 1.4 | | QUI | 14:41 | | 1.3 | SÁB | | 15:49 | 1.5 | QUI | 12:55 | 1.2 | SÁB | 13:10 | 1.5 |
| |) | 19:38 | | 2.8 | 20:46 | | 2.5 | 21:23 | | 2.7 | 22:31 | | 2.5 |) | | 19:39 | 2.7 | ((| 20:01 | 2.4 | | | |
| 07 | 01:23 | 1.1 | 23 | 02:40 | 1.5 | 07 | 03:34 | 1.3 | 23 | 05:00 | 1.5 | 07 | 01:40 | 1.2 | 23 | 02:28 | 1.5 | | | | | | |
| | 08:04 | 2.9 | | 09:17 | 2.4 | | 10:09 | 2.6 | | 11:13 | 2.4 | | 08:25 | 2.6 | | 09:05 | 2.3 | | | | | | |
| | TER | 14:07 | | 1.0 | QUI | | 15:22 | 1.5 | | SEX | 16:18 | | 1.3 | DOM | | 17:16 | 1.4 | SEX | 14:17 | 1.4 | DOM | 15:02 | 1.6 |
| | 20:43 | 2.7 | | 22:03 | 2.5 | | 22:48 | 2.7 | | 23:41 | 2.7 | | 21:05 | 2.6 | | 21:50 | 2.5 | | | | | | |
| 08 | 02:34 | 1.1 | 24 | 04:12 | 1.5 | 08 | 05:12 | 1.2 | 24 | 06:02 | 1.2 | 08 | 03:38 | 1.3 | 24 | 04:26 | 1.4 | | | | | | |
| | 09:13 | 2.9 | | 10:35 | 2.4 | | 11:31 | 2.6 | | 12:12 | 2.6 | | 10:04 | 2.5 | | 10:43 | 2.4 | | | | | | |
| | QUA | 15:20 | | 1.1 | SEX | | 16:40 | 1.4 | | SÁB | 17:38 | | 1.2 | SEG | | 18:11 | 1.2 | SÁB | 16:17 | 1.5 | SEG | 16:45 | 1.4 |
| | 21:53 | 2.8 | | 23:12 | 2.6 | | | | | | | | 22:41 | 2.7 | | 23:08 | 2.7 | | | | | | |
| 09 | 03:54 | 1.1 | 25 | 05:27 | 1.4 | 09 | 00:01 | 2.9 | 25 | 00:33 | 2.9 | 09 | 05:15 | 1.2 | 25 | 05:30 | 1.2 | | | | | | |
| | 10:26 | 2.8 | | 11:40 | 2.5 | | 06:21 | 1.0 | | 06:47 | 1.0 | | 11:34 | 2.6 | | 11:45 | 2.6 | | | | | | |
| | QUI | 16:34 | | 1.1 | SÁB | | 17:41 | 1.3 | | DOM | 12:37 | | 2.8 | TER | | 12:59 | 2.8 | DOM | 17:35 | 1.3 | TER | 17:43 | 1.2 |
| | 23:02 | 2.8 | | | | | | | | 18:37 | 1.1 | | 18:55 | 0.9 | | 23:56 | 2.8 | | | | | | |
| 10 | 05:11 | 1.1 | 26 | 00:08 | 2.7 | 10 | 00:59 | 3.0 | 26 | 01:18 | 3.1 | 10 | 06:16 | 1.0 | 26 | 00:03 | 2.9 | | | | | | |
| | 11:34 | 2.9 | | 06:21 | 1.2 | | 07:14 | 0.8 | | 07:27 | 0.7 | | 12:32 | 2.7 | | 06:17 | 0.9 | | | | | | |
| | SEX | 17:40 | | 1.0 | DOM | | 12:33 | 2.7 | | SEG | 13:28 | | 2.9 | QUA | | 13:42 | 3.1 | SEG | 18:27 | 1.1 | QUA | 12:33 | 2.9 |
| | | | | | 18:29 | | 1.1 | 19:23 | | 0.9 | 19:36 | | 0.7 | | | | | 18:29 | 0.9 | | | | |
| 11 | 00:05 | 3.0 | 27 | 00:56 | 2.9 | 11 | 01:47 | 3.2 | 27 | 02:01 | 3.4 | 11 | 00:48 | 3.0 | 27 | 00:50 | 3.2 | | | | | | |
| | 06:16 | 0.9 | | 07:06 | 1.0 | | 07:57 | 0.7 | | 08:05 | 0.5 | | 07:00 | 0.9 | | 06:58 | 0.6 | | | | | | |
| | SÁB | 12:36 | | 2.9 | SEG | | 13:19 | 2.8 | | TER | 14:10 | | 3.0 | QUI | | 14:23 | 3.3 | TER | 13:15 | 2.9 | QUI | 13:16 | 3.2 |
| | 18:37 | 0.9 | | 19:12 | 1.0 | | 20:03 | 0.8 | | 20:15 | 0.5 | | 19:08 | 0.9 | | 19:10 | 0.6 | | | | | | |
| 12 | 01:02 | 3.1 | 28 | 01:40 | 3.1 | 12 | 02:29 | 3.3 | 28 | 02:42 | 3.5 | 12 | 01:30 | 3.2 | 28 | 01:34 | 3.4 | | | | | | |
| | 07:14 | 0.8 | | 07:47 | 0.8 | | 08:34 | 0.6 | | 08:42 | 0.3 | | 07:37 | 0.7 | | 07:37 | 0.4 | | | | | | |
| | DOM | 13:31 | | 3.0 | TER | | 14:02 | 3.0 | | QUA | 14:47 | | 3.1 | QUA | | 13:50 | 3.0 | SEX | 13:57 | 3.4 | | | |
| | 19:28 | 0.8 | | 19:53 | 0.8 | | ○ | 20:39 | | 0.7 | ● | | 20:53 | 0.3 | | 19:43 | 0.8 | 19:50 | 0.4 | | | | |
| 13 | 01:54 | 3.2 | 29 | 02:22 | 3.3 | 13 | 03:06 | 3.4 | 29 | 02:06 | 3.3 | 13 | 02:06 | 3.3 | 29 | 02:16 | 3.6 | | | | | | |
| | 08:04 | 0.7 | | 08:25 | 0.6 | | 09:07 | 0.6 | | 08:09 | 0.6 | | 08:16 | 0.2 | | | | | | | | | |
| | SEG | 14:20 | | 3.0 | QUA | | 14:43 | 3.1 | | QUI | 15:21 | | 3.1 | 14:22 | | 3.1 | SÁB | 14:38 | 3.5 | | | | |
| | ○ | 20:14 | | 0.8 | ● | | 20:33 | 0.6 | | 21:11 | 0.6 | | 20:15 | 0.7 | | ● | 20:30 | 0.2 | | | | | |
| 14 | 02:41 | 3.3 | 30 | 03:03 | 3.4 | 14 | 03:40 | 3.4 | 30 | 02:40 | 3.3 | 14 | 02:40 | 3.3 | 30 | 02:58 | 3.7 | | | | | | |
| | 08:48 | 0.6 | | 09:03 | 0.5 | | 09:37 | 0.6 | | 08:38 | 0.6 | | 08:54 | 0.2 | | | | | | | | | |
| | TER | 15:04 | | 3.1 | QUI | | 15:24 | 3.2 | | SEX | 15:53 | | 3.1 | 14:54 | | 3.2 | DOM | 15:19 | 3.6 | | | | |
| | 20:54 | 0.7 | | 21:12 | 0.5 | | 21:41 | 0.6 | | 20:44 | 0.6 | | 21:09 | 0.2 | | | | | | | | | |
| 15 | 03:24 | 3.4 | 31 | 03:43 | 3.5 | 15 | 04:11 | 3.3 | 31 | 03:11 | 3.3 | 15 | 03:11 | 3.3 | 31 | 03:40 | 3.7 | | | | | | |
| | 09:28 | 0.6 | | 09:42 | 0.4 | | 10:06 | 0.6 | | 09:05 | 0.6 | | 09:32 | 0.2 | | | | | | | | | |
| | QUA | 15:44 | | 3.1 | SEX | | 16:05 | 3.3 | | SÁB | 16:24 | | 3.1 | 15:24 | | 3.2 | 16:00 | 3.5 | | | | | |
| | 21:32 | 0.7 | | 21:51 | 0.5 | | 22:10 | 0.7 | | 21:13 | 0.6 | | 21:50 | 0.2 | | | | | | | | | |
| 16 | 04:03 | 3.3 | 16 | 04:42 | 3.2 | 16 | 04:42 | 3.2 | 16 | 03:41 | 3.3 | 16 | 03:41 | 3.3 | 16 | 03:40 | 3.7 | | | | | | |
| | 10:04 | 0.6 | | 10:34 | 0.7 | | 10:34 | 0.7 | | 09:32 | 0.6 | | 09:32 | 0.6 | | | | | | | | | |
| | QUI | 16:21 | | 3.0 | DOM | | 16:55 | 3.0 | | 15:53 | 3.2 | | 15:53 | 3.2 | | | | | | | | | |
| | 22:07 | 0.8 | | 22:40 | 0.8 | | 22:40 | 0.8 | | 21:40 | 0.7 | | 21:40 | 0.7 | | | | | | | | | |

Porto de Faro-Olhão

Latitude 36° 58.69' N Longitude 7° 51.97' W

Horas do Fuso: 0 (TU)

Ano: 2025

| ABRIL | | | | | MAIO | | | | | JUNHO | | | | | | | |
|------------------|-------|--------|------------------|--------|------------------|------------------|-------|------------------|------------------|------------------|------------------|------------------|-------|--------|------------------|-------|-------|
| | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | |
| 01 TER | 04:23 | 3.5 | 17 QUI | 04:40 | 2.8 | 01 QUI | 04:54 | 3.2 | 17 SÁB | 05:03 | 2.7 | 01 DOM | 00:03 | 0.9 | 17 TER | 00:09 | 1.0 |
| | 10:11 | 0.4 | | 10:23 | 1.0 | | 10:35 | 0.8 | | 10:45 | 1.1 | | 06:28 | 2.7 | | 06:37 | 2.7 |
| | 16:42 | 3.4 | | 16:55 | 2.9 | | 17:15 | 3.2 | | 17:24 | 2.9 | | 12:08 | 1.2 | | 12:20 | 1.1 |
| | 22:32 | 0.4 | | 22:50 | 1.0 | | 23:12 | 0.7 | | 23:27 | 1.1 | | 18:52 | 2.9 | | 18:59 | 2.9 |
| 02 QUA | 05:08 | 3.3 | 18 SEX | 05:14 | 2.7 | 02 SEX | 05:47 | 2.9 | 18 DOM | 05:51 | 2.6 | 02 SEG | 01:04 | 1.1 | 18 QUA | 01:06 | 1.0 |
| | 10:52 | 0.7 | | 10:58 | 1.1 | | 11:24 | 1.1 | | 11:34 | 1.2 | | 07:26 | 2.6 | | 07:37 | 2.7 |
| | 17:28 | 3.2 | | 17:32 | 2.8 | | 18:10 | 3.0 | | 18:15 | 2.8 | | 13:09 | 1.3 | | 13:22 | 1.2 |
| | 23:19 | 0.7 | | 23:33 | 1.2 | | | | | | | | 19:50 | 2.8 | | (| 20:00 |
| 03 QUI | 05:57 | 3.0 | 19 SÁB | 05:56 | 2.5 | 03 SÁB | 00:14 | 1.0 | 19 SEG | 00:25 | 1.2 | 03 TER | 02:07 | 1.2 | 19 QUI | 02:09 | 1.0 |
| | 11:38 | 1.0 | | 11:42 | 1.3 | | 06:48 | 2.6 | | 06:53 | 2.5 | | 08:28 | 2.5 | | 08:41 | 2.7 |
| | 18:19 | 3.0 | | 18:21 | 2.6 | | 12:26 | 1.3 | | 12:37 | 1.3 | | 14:18 | 1.4 | | 14:31 | 1.2 |
| | | | | | | | 19:14 | 2.8 | | 19:20 | 2.7 | |) | 20:53 | | 2.7 | 21:05 |
| 04 SEX | 00:16 | 1.0 | 20 DOM | 00:33 | 1.3 | 04 DOM | 01:35 | 1.2 | 20 TER | 01:37 | 1.2 | 04 QUA | 03:12 | 1.2 | 20 SEX | 03:16 | 1.0 |
| | 06:57 | 2.7 | | 06:59 | 2.4 | | 08:00 | 2.5 | | 08:08 | 2.5 | | 09:33 | 2.5 | | 09:47 | 2.8 |
| | 12:36 | 1.3 | | 12:47 | 1.5 | | 13:49 | 1.4 | | 13:55 | 1.4 | | 15:29 | 1.4 | | 15:42 | 1.1 |
| | 19:26 | 2.8 | | 19:35 | 2.6 | |) | 20:28 | | 2.7 | (| | 20:34 | 2.7 | | 21:55 | 2.7 |
| 05 SÁB | 01:41 | 1.2 | 21 SEG | 02:03 | 1.4 | 05 SEG | 03:02 | 1.2 | 21 QUA | 02:53 | 1.2 | 05 QUI | 04:12 | 1.2 | 21 SÁB | 04:21 | 0.9 |
| | 08:17 | 2.5 | | 08:36 | 2.3 | | 09:22 | 2.4 | | 09:24 | 2.6 | | 10:32 | 2.6 | | 10:48 | 2.9 |
| | 14:08 | 1.5 | | 14:27 | 1.5 | | 15:20 | 1.5 | | 15:16 | 1.3 | | 16:32 | 1.3 | | 16:49 | 1.0 |
| |) | 20:52 | | 2.6 | (| | 21:10 | 2.6 | | 21:46 | 2.7 | | 21:46 | 2.8 | | 22:52 | 2.7 |
| 06 DOM | 03:36 | 1.3 | 22 TER | 03:41 | 1.3 | 06 TER | 04:15 | 1.2 | 22 QUI | 04:03 | 1.0 | 06 SEX | 05:03 | 1.2 | 22 DOM | 05:20 | 0.8 |
| | 09:56 | 2.4 | | 10:06 | 2.5 | | 10:36 | 2.5 | | 10:29 | 2.8 | | 11:23 | 2.7 | | 11:46 | 3.0 |
| | 16:02 | 1.5 | | 16:03 | 1.4 | | 16:31 | 1.4 | | 16:25 | 1.1 | | 17:24 | 1.2 | | 17:49 | 0.8 |
| | 22:24 | 2.7 | | 22:28 | 2.7 | | 22:52 | 2.8 | | 22:48 | 3.0 | | 23:41 | 2.7 | | | |
| 07 SEG | 04:57 | 1.2 | 23 QUA | 04:49 | 1.1 | 07 QUA | 05:09 | 1.1 | 23 SEX | 05:00 | 0.8 | 07 SÁB | 05:46 | 1.1 | 23 SEG | 00:12 | 3.1 |
| | 11:19 | 2.5 | | 11:10 | 2.7 | | 11:28 | 2.6 | | 11:23 | 3.0 | | 12:06 | 2.8 | | 06:15 | 0.8 |
| | 17:13 | 1.3 | | 17:07 | 1.1 | | 17:23 | 1.2 | | 17:21 | 0.9 | | 18:08 | 1.1 | | 12:40 | 3.2 |
| | 23:34 | 2.8 | | 23:27 | 3.0 | | 23:42 | 2.8 | | 23:43 | 3.1 | | 23:43 | 3.1 | | 18:46 | 0.7 |
| 08 TER | 05:51 | 1.1 | 24 QUI | 05:40 | 0.8 | 08 QUI | 05:52 | 1.0 | 24 SÁB | 05:51 | 0.7 | 08 DOM | 00:24 | 2.8 | 24 TER | 01:08 | 3.1 |
| | 12:10 | 2.7 | | 12:00 | 3.0 | | 12:09 | 2.8 | | 12:13 | 3.1 | | 06:24 | 1.0 | | 07:07 | 0.7 |
| | 18:02 | 1.2 | | 17:56 | 0.9 | | 18:05 | 1.1 | | 18:12 | 0.7 | | 12:47 | 2.9 | | 13:34 | 3.3 |
| | | | | | | | | | | | | | 18:48 | 1.1 | | 19:40 | 0.6 |
| 09 QUA | 00:22 | 3.0 | 25 SEX | 00:17 | 3.2 | 09 SEX | 00:23 | 2.9 | 25 DOM | 00:34 | 3.3 | 09 SEG | 01:05 | 2.8 | 25 QUA | 02:03 | 3.2 |
| | 06:32 | 0.9 | | 06:25 | 0.6 | | 06:28 | 0.9 | | 06:38 | 0.5 | | 07:00 | 1.0 | | 07:57 | 0.7 |
| | 12:47 | 2.8 | | 12:45 | 3.2 | | 12:45 | 2.9 | | 13:01 | 3.3 | | 13:26 | 3.0 | | 14:26 | 3.4 |
| | 18:41 | 1.0 | | 18:41 | 0.6 | | 18:42 | 1.0 | | 19:01 | 0.5 | | 19:25 | 1.0 | | ● | 20:32 |
| 10 QUI | 01:01 | 3.1 | 26 SÁB | 01:03 | 3.4 | 10 SÁB | 01:00 | 3.0 | 26 SEG | 01:24 | 3.4 | 10 TER | 01:44 | 2.9 | 26 QUI | 02:54 | 3.2 |
| | 07:06 | 0.8 | | 07:07 | 0.4 | | 07:01 | 0.9 | | 07:23 | 0.5 | | 07:34 | 0.9 | | 08:45 | 0.7 |
| | 13:20 | 3.0 | | 13:29 | 3.4 | | 13:19 | 3.0 | | 13:49 | 3.4 | | 14:04 | 3.0 | | 15:16 | 3.4 |
| | 19:15 | 0.9 | | 19:24 | 0.4 | | 19:16 | 0.9 | | 19:48 | 0.4 | | 20:01 | 0.9 | | 21:21 | 0.5 |
| 11 SEX | 01:36 | 3.1 | 27 DOM | 01:49 | 3.5 | 11 DOM | 01:36 | 3.0 | 27 TER | 02:14 | 3.4 | 11 QUA | 02:22 | 2.9 | 27 SEX | 03:43 | 3.1 |
| | 07:36 | 0.7 | | 07:48 | 0.3 | | 07:31 | 0.8 | | 08:09 | 0.5 | | 08:07 | 0.9 | | 09:30 | 0.7 |
| | 13:52 | 3.1 | | 14:12 | 3.5 | | 13:53 | 3.1 | | 14:38 | 3.4 | | 14:41 | 3.1 | | 16:04 | 3.4 |
| | 19:46 | 0.8 | | ● | 20:07 | | 0.3 | 19:48 | | 0.8 | ● | | 20:37 | 0.4 | | ○ | 20:37 |
| 12 SÁB | 02:09 | 3.2 | 28 SEG | 02:34 | 3.6 | 12 SEG | 02:10 | 3.0 | 28 QUA | 03:04 | 3.3 | 12 QUI | 02:59 | 2.9 | 28 SÁB | 04:29 | 3.0 |
| | 08:05 | 0.7 | | 08:29 | 0.3 | | 08:01 | 0.8 | | 08:54 | 0.5 | | 08:42 | 0.9 | | 10:13 | 0.8 |
| | 14:23 | 3.1 | | 14:56 | 3.5 | | 14:27 | 3.1 | | 15:26 | 3.4 | | 15:17 | 3.1 | | 16:50 | 3.3 |
| | 20:16 | 0.7 | | 20:50 | 0.2 | | ○ | 20:19 | | 0.8 | 21:25 | | 0.5 | 21:14 | | 0.8 | 22:51 |
| 13 DOM | 02:40 | 3.2 | 29 TER | 03:20 | 3.5 | 13 TER | 02:44 | 3.0 | 29 QUI | 03:54 | 3.2 | 13 SEX | 03:36 | 2.9 | 29 DOM | 05:13 | 2.9 |
| | 08:32 | 0.7 | | 09:10 | 0.4 | | 08:29 | 0.8 | | 09:39 | 0.7 | | 09:18 | 0.9 | | 10:55 | 0.9 |
| | 14:54 | 3.2 | | 15:40 | 3.5 | | 15:00 | 3.1 | | 16:15 | 3.4 | | 15:55 | 3.1 | | 17:34 | 3.2 |
| | ○ | 20:44 | | 0.7 | ○ | | 21:34 | 0.3 | | 20:51 | 0.8 | | 22:15 | 0.6 | | 21:52 | 0.8 |
| 14 SEG | 03:11 | 3.2 | 30 QUA | 04:06 | 3.4 | 14 QUA | 03:17 | 3.0 | 30 SEX | 04:44 | 3.0 | 14 SÁB | 04:15 | 2.9 | 30 SEG | 05:57 | 2.8 |
| | 08:59 | 0.7 | | 09:52 | 0.5 | | 08:59 | 0.8 | | 10:25 | 0.8 | | 09:57 | 0.9 | | 11:38 | 1.0 |
| | 15:25 | 3.2 | | 16:26 | 3.4 | | 15:33 | 3.1 | | 17:05 | 3.2 | | 16:35 | 3.1 | | 18:18 | 3.0 |
| | 21:13 | 0.7 | | 22:20 | 0.5 | | 21:24 | 0.8 | | 23:07 | 0.7 | | 22:33 | 0.9 | | | |
| 15 TER | 03:40 | 3.1 | | | 15 QUI | 03:50 | 2.9 | 31 SÁB | 05:35 | 2.9 | 15 DOM | 04:57 | 2.8 | | | | |
| | 09:25 | 0.8 | | | | 09:31 | 0.9 | | 11:14 | 1.0 | | 10:39 | 1.0 | | | | |
| | 15:54 | 3.1 | | | | 16:06 | 3.0 | | 17:57 | 3.1 | | 17:18 | 3.0 | | | | |
| | 21:43 | 0.8 | | | | 22:00 | 0.9 | | | | | 23:19 | 0.9 | | | | |
| 16 QUA | 04:10 | 3.0 | | | 16 SEX | 04:24 | 2.8 | | | 16 SEG | 05:44 | 2.8 | | | | | |
| | 09:53 | 0.9 | | | | 10:05 | 1.0 | | | | 11:26 | 1.0 | | | | | |
| | 16:24 | 3.0 | | | | 16:42 | 3.0 | | | | 18:06 | 3.0 | | | | | |
| | 22:14 | 0.9 | | | | 22:40 | 1.0 | | | | | | | | | | |

Porto de Faro-Olhão

Latitude 36° 58.69' N Longitude 7° 51.97' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JULHO | | | | AGOSTO | | | | SETEMBRO | | | |
|-----------|-------|--------|-----------|--------|--------|-----------|--------|----------|-----------|-------|--------|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura |
| 01 | 00:19 | 1.0 | 17 | 00:33 | 0.8 | 01 | 00:49 | 1.2 | 17 | 01:58 | 1.2 |
| | 06:42 | 2.7 | | 07:04 | 2.9 | | 07:22 | 2.6 | | 08:41 | 2.7 |
| TER | 12:23 | 1.2 | QUI | 12:50 | 1.0 | SEX | 13:09 | 1.4 | DOM | 14:46 | 1.2 |
| | 19:04 | 2.9 | | 19:28 | 3.0 |) | 19:46 | 2.5 | | 21:26 | 2.6 |
| 02 | 01:06 | 1.1 | 18 | 01:28 | 1.0 | 02 | 01:42 | 1.4 | 18 | 03:29 | 1.3 |
| | 07:31 | 2.6 | | 08:02 | 2.8 | | 08:23 | 2.5 | | 10:06 | 2.7 |
| QUA | 13:14 | 1.3 | SEX | 13:52 | 1.1 | SÁB | 14:18 | 1.5 | SEG | 16:30 | 1.2 |
|) | 19:54 | 2.7 | (| 20:30 | 2.9 | | 20:54 | 2.4 | | 22:52 | 2.6 |
| 03 | 01:58 | 1.3 | 19 | 02:33 | 1.1 | 03 | 02:55 | 1.5 | 19 | 05:00 | 1.3 |
| | 08:26 | 2.5 | | 09:09 | 2.8 | | 09:38 | 2.5 | | 11:24 | 2.8 |
| QUI | 14:16 | 1.4 | SÁB | 15:07 | 1.1 | DOM | 15:53 | 1.5 | TER | 17:48 | 1.0 |
| | 20:51 | 2.6 | | 21:42 | 2.8 | | 22:14 | 2.4 | | 23:58 | 2.6 |
| 04 | 03:00 | 1.3 | 20 | 03:47 | 1.1 | 04 | 04:20 | 1.5 | 20 | 00:04 | 2.8 |
| | 09:29 | 2.5 | | 10:20 | 2.8 | | 10:52 | 2.5 | | 06:06 | 1.1 |
| SEX | 15:28 | 1.4 | DOM | 16:28 | 1.1 | SEG | 17:15 | 1.4 | QUA | 12:28 | 3.0 |
| | 21:55 | 2.5 | | 22:55 | 2.8 | | 23:24 | 2.5 | | 18:46 | 0.8 |
| 05 | 04:05 | 1.3 | 21 | 05:01 | 1.1 | 05 | 05:27 | 1.4 | 21 | 01:00 | 2.9 |
| | 10:32 | 2.6 | | 11:28 | 2.9 | | 11:52 | 2.7 | | 06:57 | 0.9 |
| SÁB | 16:39 | 1.4 | SEG | 17:42 | 1.0 | TER | 18:12 | 1.3 | QUI | 13:20 | 3.2 |
| | 22:57 | 2.6 | | | | | | | | 19:32 | 0.7 |
| 06 | 05:03 | 1.3 | 22 | 00:02 | 2.9 | 06 | 00:19 | 2.6 | 22 | 01:46 | 3.0 |
| | 11:28 | 2.7 | | 06:05 | 1.0 | | 06:17 | 1.2 | | 07:40 | 0.8 |
| DOM | 17:37 | 1.3 | TER | 12:31 | 3.1 | QUA | 12:41 | 2.8 | SEX | 14:05 | 3.3 |
| | 23:51 | 2.6 | | 18:45 | 0.8 | | 18:56 | 1.1 | | 20:12 | 0.6 |
| 07 | 05:52 | 1.2 | 23 | 01:03 | 3.0 | 07 | 01:05 | 2.7 | 23 | 02:26 | 3.1 |
| | 12:18 | 2.8 | | 07:02 | 0.9 | | 06:59 | 1.1 | | 08:18 | 0.6 |
| SEG | 18:27 | 1.2 | QUA | 13:27 | 3.2 | QUI | 13:24 | 3.0 | SÁB | 14:45 | 3.4 |
| | | | | 19:39 | 0.7 | | 19:34 | 0.9 | ● | 20:47 | 0.5 |
| 08 | 00:39 | 2.7 | 24 | 01:56 | 3.0 | 08 | 01:46 | 2.9 | 24 | 03:03 | 3.2 |
| | 06:35 | 1.1 | | 07:51 | 0.8 | | 07:38 | 0.9 | | 08:53 | 0.6 |
| TER | 13:02 | 2.9 | QUI | 14:18 | 3.3 | SEX | 14:05 | 3.2 | DOM | 15:21 | 3.4 |
| | 19:10 | 1.1 | ● | 20:27 | 0.6 | | 20:10 | 0.7 | | 21:20 | 0.5 |
| 09 | 01:23 | 2.8 | 25 | 02:44 | 3.1 | 09 | 02:26 | 3.0 | 25 | 03:37 | 3.2 |
| | 07:15 | 1.0 | | 08:35 | 0.7 | | 08:16 | 0.7 | | 09:25 | 0.6 |
| QUA | 13:44 | 3.0 | SEX | 15:04 | 3.4 | SÁB | 14:44 | 3.3 | SEG | 15:56 | 3.3 |
| | 19:49 | 1.0 | | 21:09 | 0.5 | ○ | 20:45 | 0.6 | | 21:50 | 0.6 |
| 10 | 02:04 | 2.8 | 26 | 03:27 | 3.1 | 10 | 03:05 | 3.2 | 26 | 04:10 | 3.1 |
| | 07:53 | 0.9 | | 09:15 | 0.7 | | 08:53 | 0.6 | | 09:56 | 0.7 |
| QUI | 14:24 | 3.1 | SÁB | 15:47 | 3.4 | DOM | 15:23 | 3.4 | TER | 16:28 | 3.2 |
| ○ | 20:27 | 0.8 | | 21:48 | 0.5 | | 21:21 | 0.4 | | 22:19 | 0.7 |
| 11 | 02:44 | 2.9 | 27 | 04:06 | 3.1 | 11 | 03:44 | 3.2 | 27 | 04:41 | 3.0 |
| | 08:30 | 0.9 | | 09:52 | 0.7 | | 09:30 | 0.5 | | 10:27 | 0.8 |
| SEX | 15:03 | 3.2 | DOM | 16:26 | 3.4 | SEG | 16:02 | 3.5 | QUA | 16:59 | 3.1 |
| | 21:04 | 0.7 | | 22:23 | 0.6 | | 21:58 | 0.4 | | 22:48 | 0.8 |
| 12 | 03:24 | 3.0 | 28 | 04:43 | 3.0 | 12 | 04:23 | 3.2 | 28 | 05:13 | 2.9 |
| | 09:08 | 0.8 | | 10:27 | 0.7 | | 10:09 | 0.5 | | 10:58 | 0.9 |
| SÁB | 15:43 | 3.2 | SEG | 17:03 | 3.2 | TER | 16:42 | 3.4 | QUI | 17:30 | 2.9 |
| | 21:41 | 0.7 | | 22:58 | 0.7 | | 22:36 | 0.4 | | 23:18 | 1.0 |
| 13 | 04:03 | 3.0 | 29 | 05:19 | 2.9 | 13 | 05:04 | 3.2 | 29 | 05:46 | 2.8 |
| | 09:47 | 0.7 | | 11:02 | 0.9 | | 10:49 | 0.6 | | 11:33 | 1.1 |
| DOM | 16:22 | 3.3 | TER | 17:39 | 3.1 | QUA | 17:24 | 3.4 | SEX | 18:03 | 2.7 |
| | 22:20 | 0.6 | | 23:32 | 0.9 | | 23:16 | 0.6 | | 23:52 | 1.2 |
| 14 | 04:44 | 3.0 | 30 | 05:56 | 2.8 | 14 | 05:46 | 3.1 | 30 | 06:25 | 2.6 |
| | 10:28 | 0.7 | | 11:38 | 1.0 | | 11:32 | 0.7 | | 12:15 | 1.3 |
| SEG | 17:04 | 3.3 | QUA | 18:16 | 2.9 | QUI | 18:08 | 3.2 | SÁB | 18:45 | 2.5 |
| | 23:01 | 0.7 | | | | | | | | | |
| 15 | 05:27 | 3.0 | 31 | 00:08 | 1.1 | 15 | 00:01 | 0.8 | 31 | 00:35 | 1.4 |
| | 11:10 | 0.8 | | 06:35 | 2.7 | | 06:34 | 3.0 | | 07:17 | 2.5 |
| TER | 17:47 | 3.2 | QUI | 12:19 | 1.2 | SEX | 12:21 | 0.9 | DOM | 13:15 | 1.5 |
| | 23:44 | 0.7 | | 18:56 | 2.7 | | 19:00 | 3.0 |) | 19:51 | 2.3 |
| 16 | 06:13 | 2.9 | | | | 16 | 00:52 | 1.0 | 16 | 03:32 | 1.4 |
| | 11:57 | 0.9 | | | | | 07:30 | 2.8 | | 10:02 | 2.7 |
| QUA | 18:34 | 3.1 | | | | SÁB | 13:22 | 1.1 | TER | 16:39 | 1.2 |
| | | | | | | (| 20:04 | 2.8 | | 22:57 | 2.6 |

Porto de Faro-Olhão

Latitude 36° 58.69' N Longitude 7° 51.97' W

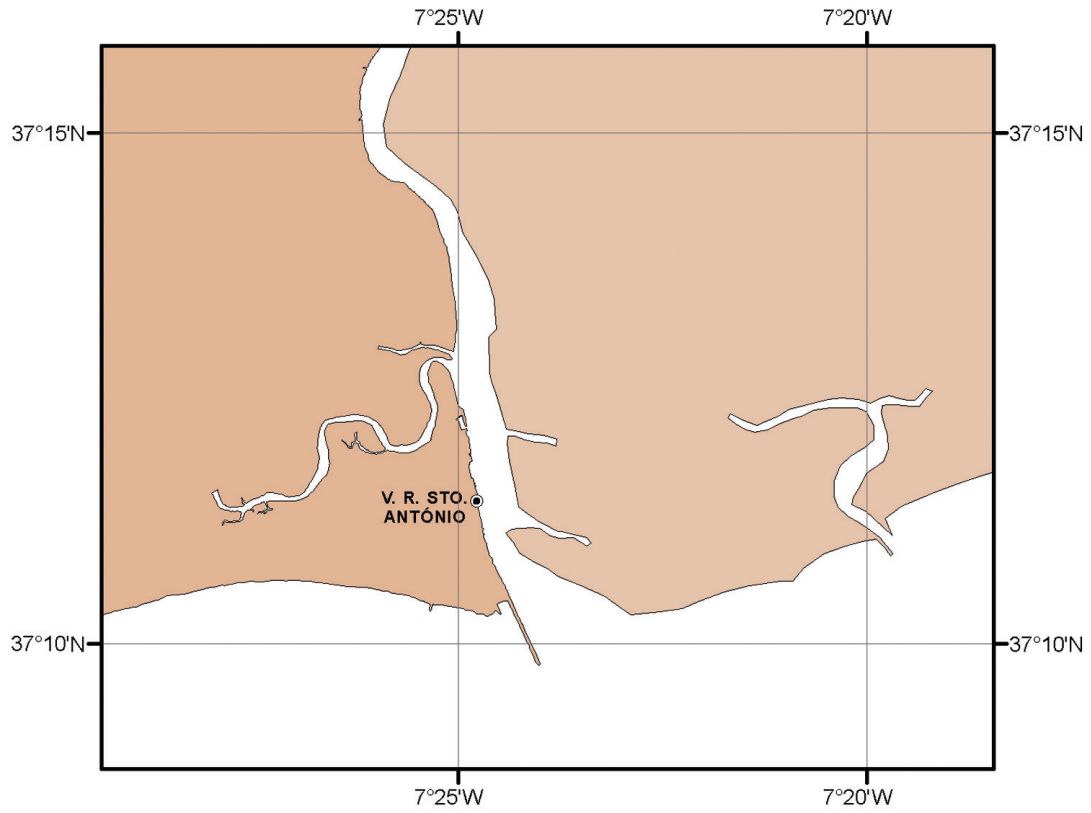
Horas do Fuso: 0 (TU)

Ano: 2025

| OUTUBRO | | | | | NOVEMBRO | | | | | DEZEMBRO | | | | | | | |
|-----------|-------|--------|-----------|--------|----------|-----------|--------|------|-----------|----------|------|-----------|-------|--------|-----------|-------|-----|
| | Hora | Altura | Hora | Altura | | Hora | Altura | Hora | Altura | | Hora | Altura | Hora | Altura | | | |
| 01 | 02:47 | 1.6 | 17 | 05:37 | 1.1 | 01 | 04:44 | 1.2 | 17 | 00:27 | 2.9 | 01 | 04:53 | 1.0 | 17 | 00:36 | 2.9 |
| | 09:35 | 2.5 | | 11:57 | 3.0 | | 11:04 | 2.9 | | 06:26 | 1.0 | | 11:16 | 3.0 | | 06:41 | 1.1 |
| | 16:18 | 1.5 | SEX | 18:09 | 0.9 | SÁB | 17:18 | 0.9 | SEG | 12:44 | 3.0 | SEG | 17:24 | 0.8 | QUA | 12:55 | 2.8 |
| | 22:28 | 2.4 | | | | | 23:37 | 2.9 | | 18:45 | 0.9 | | 23:47 | 3.0 | | 18:53 | 1.0 |
| 02 | 04:31 | 1.5 | 18 | 00:25 | 2.9 | 02 | 05:33 | 1.0 | 18 | 01:03 | 3.0 | 02 | 05:46 | 0.8 | 18 | 01:16 | 2.9 |
| | 10:51 | 2.6 | | 06:18 | 1.0 | | 11:53 | 3.1 | | 07:02 | 0.9 | | 12:08 | 3.2 | | 07:20 | 1.0 |
| | 17:16 | 1.2 | SÁB | 12:39 | 3.1 | DOM | 18:01 | 0.7 | TER | 13:21 | 3.0 | TER | 18:12 | 0.6 | QUI | 13:35 | 2.8 |
| | 23:28 | 2.6 | | 18:45 | 0.8 | | | | | 19:18 | 0.8 | | | | | 19:28 | 1.0 |
| 03 | 05:26 | 1.3 | 19 | 01:00 | 3.0 | 03 | 00:21 | 3.1 | 19 | 01:38 | 3.1 | 03 | 00:36 | 3.2 | 19 | 01:54 | 3.0 |
| | 11:44 | 2.9 | | 06:54 | 0.8 | | 06:17 | 0.7 | | 07:35 | 0.8 | | 06:36 | 0.6 | | 07:56 | 0.9 |
| | 17:59 | 1.0 | DOM | 13:15 | 3.2 | SEG | 12:38 | 3.3 | QUA | 13:56 | 3.0 | QUA | 12:58 | 3.3 | SEX | 14:12 | 2.9 |
| | | | | 19:17 | 0.7 | | 18:42 | 0.5 | | 19:48 | 0.8 | | 18:59 | 0.5 | | 20:01 | 0.9 |
| 04 | 00:13 | 2.8 | 20 | 01:33 | 3.1 | 04 | 01:03 | 3.3 | 20 | 02:13 | 3.1 | 04 | 01:24 | 3.4 | 20 | 02:31 | 3.1 |
| | 06:09 | 1.0 | | 07:28 | 0.7 | | 07:00 | 0.5 | | 08:08 | 0.8 | | 07:24 | 0.5 | | 08:31 | 0.9 |
| | 12:28 | 3.1 | SEG | 13:50 | 3.2 | TER | 13:22 | 3.5 | QUI | 14:30 | 3.0 | QUI | 13:49 | 3.4 | SÁB | 14:49 | 2.9 |
| | 18:37 | 0.7 | | 19:48 | 0.7 | | 19:23 | 0.3 | ● | 20:18 | 0.8 | ○ | 19:45 | 0.5 | ● | 20:33 | 0.9 |
| 05 | 00:54 | 3.1 | 21 | 02:05 | 3.2 | 05 | 01:46 | 3.4 | 21 | 02:46 | 3.1 | 05 | 02:13 | 3.4 | 21 | 03:07 | 3.1 |
| | 06:48 | 0.7 | | 07:59 | 0.7 | | 07:42 | 0.3 | | 08:40 | 0.8 | | 08:13 | 0.4 | | 09:05 | 0.8 |
| | 13:10 | 3.3 | TER | 14:22 | 3.2 | QUA | 14:07 | 3.5 | SEX | 15:03 | 3.0 | SEX | 14:39 | 3.4 | DOM | 15:24 | 2.9 |
| | 19:14 | 0.5 | ● | 20:16 | 0.7 | ○ | 20:04 | 0.3 | | 20:47 | 0.9 | | 20:31 | 0.5 | | 21:07 | 0.9 |
| 06 | 01:33 | 3.3 | 22 | 02:37 | 3.2 | 06 | 02:30 | 3.5 | 22 | 03:19 | 3.1 | 06 | 03:02 | 3.5 | 22 | 03:42 | 3.1 |
| | 07:27 | 0.5 | | 08:29 | 0.7 | | 08:25 | 0.3 | | 09:12 | 0.9 | | 09:02 | 0.4 | | 09:40 | 0.8 |
| | 13:51 | 3.5 | QUA | 14:54 | 3.1 | QUI | 14:53 | 3.5 | SÁB | 15:36 | 2.9 | SÁB | 15:29 | 3.3 | SEG | 16:00 | 2.9 |
| | 19:51 | 0.3 | | 20:44 | 0.7 | | 20:45 | 0.3 | | 21:17 | 0.9 | | 21:17 | 0.6 | | 21:42 | 0.9 |
| 07 | 02:13 | 3.4 | 23 | 03:09 | 3.2 | 07 | 03:14 | 3.5 | 23 | 03:52 | 3.0 | 07 | 03:51 | 3.5 | 23 | 04:18 | 3.1 |
| | 08:06 | 0.3 | | 08:59 | 0.7 | | 09:09 | 0.3 | | 09:46 | 0.9 | | 09:51 | 0.5 | | 10:17 | 0.8 |
| | 14:32 | 3.6 | QUI | 15:25 | 3.1 | SEX | 15:39 | 3.4 | DOM | 16:09 | 2.8 | DOM | 16:19 | 3.2 | TER | 16:38 | 2.8 |
| | 20:29 | 0.2 | | 21:11 | 0.8 | | 21:28 | 0.5 | | 21:50 | 1.0 | | 22:03 | 0.7 | | 22:20 | 0.9 |
| 08 | 02:53 | 3.5 | 24 | 03:39 | 3.1 | 08 | 04:00 | 3.4 | 24 | 04:26 | 3.0 | 08 | 04:41 | 3.4 | 24 | 04:57 | 3.1 |
| | 08:45 | 0.2 | | 09:29 | 0.8 | | 09:55 | 0.4 | | 10:24 | 1.0 | | 10:42 | 0.6 | | 10:56 | 0.9 |
| | 15:13 | 3.6 | SEX | 15:54 | 3.0 | SÁB | 16:27 | 3.2 | SEG | 16:45 | 2.7 | SEG | 17:09 | 3.0 | QUA | 17:19 | 2.8 |
| | 21:07 | 0.2 | | 21:38 | 0.9 | | 22:12 | 0.7 | | 22:27 | 1.1 | | 22:51 | 0.9 | | 23:02 | 1.0 |
| 09 | 03:34 | 3.5 | 25 | 04:09 | 3.0 | 09 | 04:49 | 3.3 | 25 | 05:05 | 2.9 | 09 | 05:32 | 3.2 | 25 | 05:39 | 3.0 |
| | 09:25 | 0.2 | | 10:00 | 0.9 | | 10:46 | 0.6 | | 11:07 | 1.1 | | 11:35 | 0.8 | | 11:40 | 0.9 |
| | 15:56 | 3.5 | SÁB | 16:24 | 2.8 | DOM | 17:19 | 3.0 | TER | 17:28 | 2.6 | TER | 18:01 | 2.8 | QUI | 18:05 | 2.7 |
| | 21:46 | 0.4 | | 22:07 | 1.0 | | 23:00 | 0.9 | | 23:11 | 1.2 | | 23:41 | 1.0 | | 23:49 | 1.1 |
| 10 | 04:16 | 3.4 | 26 | 04:40 | 2.9 | 10 | 05:43 | 3.1 | 26 | 05:51 | 2.8 | 10 | 06:25 | 3.1 | 26 | 06:26 | 2.9 |
| | 10:07 | 0.4 | | 10:34 | 1.1 | | 11:45 | 0.9 | | 11:59 | 1.2 | | 12:31 | 1.0 | | 12:30 | 1.0 |
| | 16:40 | 3.3 | DOM | 16:57 | 2.7 | SEG | 18:19 | 2.8 | QUA | 18:23 | 2.5 | QUA | 18:57 | 2.7 | SEX | 18:58 | 2.7 |
| | 22:27 | 0.6 | | 22:40 | 1.2 | | 23:57 | 1.2 | | | | | | | | | |
| 11 | 05:01 | 3.3 | 27 | 05:16 | 2.8 | 11 | 06:46 | 2.9 | 27 | 00:07 | 1.3 | 11 | 00:37 | 1.2 | 27 | 00:44 | 1.2 |
| | 10:53 | 0.6 | | 11:16 | 1.2 | | 12:58 | 1.1 | | 06:50 | 2.7 | | 07:22 | 2.9 | | 07:21 | 2.9 |
| | 17:29 | 3.1 | SEG | 17:37 | 2.5 | TER | 19:29 | 2.6 | QUI | 13:03 | 1.3 | QUI | 13:32 | 1.1 | SÁB | 13:27 | 1.1 |
| | 23:12 | 0.9 | | 23:21 | 1.3 | | | | | 19:32 | 2.5 | ((| 19:57 | 2.5 |)) | 19:59 | 2.7 |
| 12 | 05:52 | 3.0 | 28 | 06:02 | 2.6 | 12 | 01:11 | 1.4 | 28 | 01:18 | 1.4 | 12 | 01:41 | 1.3 | 28 | 01:48 | 1.2 |
| | 11:47 | 0.9 | | 12:12 | 1.4 | | 07:58 | 2.8 | | 08:01 | 2.7 | | 08:24 | 2.8 | | 08:24 | 2.8 |
| | 18:28 | 2.8 | TER | 18:36 | 2.4 | QUA | 14:25 | 1.2 | SEX | 14:17 | 1.2 | SEX | 14:39 | 1.2 | DOM | 14:33 | 1.1 |
| | | | | | | ((| 20:48 | 2.5 |)) | 20:49 | 2.5 | | 21:03 | 2.5 | | 21:07 | 2.7 |
| 13 | 00:06 | 1.2 | 29 | 00:20 | 1.5 | 13 | 02:42 | 1.4 | 29 | 02:38 | 1.4 | 13 | 02:55 | 1.4 | 29 | 03:00 | 1.2 |
| | 06:56 | 2.8 | | 07:14 | 2.5 | | 09:16 | 2.8 | | 09:14 | 2.7 | | 09:29 | 2.7 | | 09:33 | 2.8 |
| | 13:03 | 1.2 | QUA | 13:39 | 1.5 | QUI | 15:45 | 1.2 | SÁB | 15:30 | 1.1 | SÁB | 15:46 | 1.3 | SEG | 15:43 | 1.0 |
| | 19:44 | 2.5 |)) | 20:11 | 2.3 | | 22:06 | 2.5 | | 21:59 | 2.7 | | 22:08 | 2.5 | | 22:15 | 2.8 |
| 14 | 01:28 | 1.4 | 30 | 01:58 | 1.6 | 14 | 04:01 | 1.4 | 30 | 03:53 | 1.2 | 14 | 04:08 | 1.4 | 30 | 04:14 | 1.1 |
| | 08:19 | 2.7 | | 08:47 | 2.5 | | 10:26 | 2.8 | | 10:19 | 2.9 | | 10:32 | 2.7 | | 10:42 | 2.9 |
| | 14:56 | 1.3 | QUI | 15:20 | 1.4 | SEX | 16:46 | 1.1 | DOM | 16:31 | 1.0 | DOM | 16:44 | 1.2 | TER | 16:49 | 1.0 |
| | 21:19 | 2.5 | | 21:42 | 2.4 | | 23:05 | 2.6 | | 22:56 | 2.8 | | 23:05 | 2.6 | | 23:17 | 2.9 |
| 15 | 03:23 | 1.5 | 31 | 03:38 | 1.5 | 15 | 05:00 | 1.2 | 15 | 05:00 | 1.2 | 15 | 05:08 | 1.3 | 31 | 05:21 | 0.9 |
| | 09:50 | 2.7 | | 10:06 | 2.7 | | 11:22 | 2.9 | | 11:22 | 2.9 | | 11:26 | 2.7 | | 11:45 | 3.0 |
| | 16:25 | 1.2 | SEX | 16:28 | 1.2 | SÁB | 17:32 | 1.0 | SEG | 17:33 | 1.2 | SEG | 17:33 | 1.2 | QUA | 17:49 | 0.9 |
| | 22:46 | 2.5 | | 22:48 | 2.6 | | 23:49 | 2.8 | | 23:53 | 2.7 | | 23:53 | 2.7 | | | |
| 16 | 04:43 | 1.3 | 16 | 05:46 | 1.1 | 16 | 05:46 | 1.1 | 16 | 05:57 | 1.2 | 16 | 05:57 | 1.2 | 16 | 05:57 | 1.2 |
| | 11:04 | 2.8 | | 12:06 | 2.9 | | 12:06 | 2.9 | | 12:13 | 2.7 | | 12:13 | 2.7 | | 12:13 | 2.7 |
| | 17:25 | 1.0 | DOM | 18:11 | 1.0 | | 18:11 | 1.0 | | 18:15 | 1.1 | | 18:15 | 1.1 | | 18:15 | 1.1 |
| | 23:44 | 2.7 | | | | | | | | | | | | | | | |

201.13

VILA REAL DE SANTO ANTÓNIO



PORTO DE VILA REAL DE SANTO ANTÓNIO

NOTAS

1. ANÁLISE HARMÓNICA:

— Efetuada a partir de um ano de observações maregráficas, de 6 de maio de 2014 a 7 de maio de 2015.

2. LOCALIZAÇÃO DO MARÉGRAFO:

— Na marina do Guadiana, junto à associação Naval do Guadiana:
Latitude 37° 11,60' N; Longitude 7° 24,80' W – WGS84.

3. ALTURAS DE MARÉ:

— Referidas ao nível do zero hidrográfico.
— Nível médio: 2,00 m.

4. ZERO HIDROGRÁFICO:

— 2,00 m abaixo do nível médio adotado (Cascais, 1938).
— 4,945 m abaixo da marca de nivelamento IH BH-53/09, incrustada no pavimento junto ao marégrafo, à esquerda deste.
— 6,335 m abaixo da marca NP155 (IGP) situada na Praça Marquês de Pombal no terceiro degrau do lado (N) do obelisco.

Porto de Vila Real de Santo António

Latitude 37° 11.60' N Longitude 7° 24.80' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JANEIRO | | | | FEVEREIRO | | | | MARÇO | | | | | | | | | | | | | | | |
|-----------|-------|--------|-----------|-----------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | | | | | | | |
| 01 | 03:09 | 3.2 | 17 | 04:35 | 3.2 | 01 | 04:18 | 3.5 | 17 | 05:06 | 2.9 | 01 | 03:17 | 3.6 | 17 | 04:04 | 3.1 | | | | | | |
| | 09:29 | 0.7 | | 10:49 | 0.7 | | 10:36 | 0.4 | | 11:12 | 0.8 | | 09:35 | 0.3 | | 10:10 | 0.7 | | | | | | |
| | 15:35 | 3.0 | | SEX | 16:56 | | 2.9 | SÁB | | 16:42 | 3.2 | | SEG | 17:22 | | 2.8 | SÁB | 15:40 | 3.4 | SEG | 16:18 | 3.0 | |
| | 21:35 | 0.8 | | 22:49 | 0.8 | | 22:45 | 0.5 | | 23:22 | 0.8 | | 21:46 | 0.3 | | 22:21 | 0.7 | | | | | | |
| 02 | 03:50 | 3.3 | 18 | 05:10 | 3.0 | 02 | 05:00 | 3.4 | 18 | 05:37 | 2.8 | 02 | 03:58 | 3.6 | 18 | 04:33 | 3.0 | | | | | | |
| | 10:09 | 0.7 | | 11:22 | 0.8 | | 11:15 | 0.5 | | 11:42 | 0.9 | | 10:13 | 0.3 | | 10:36 | 0.8 | | | | | | |
| | QUI | 16:16 | | 3.1 | SÁB | | 17:30 | 2.8 | | DOM | 17:24 | | 3.1 | TER | | 17:55 | 2.6 | DOM | 16:20 | 3.4 | TER | 16:47 | 2.9 |
| | 22:16 | 0.8 | | 23:23 | 0.9 | | 23:26 | 0.6 | | 23:56 | 1.0 | | 22:26 | 0.3 | | 22:51 | 0.8 | | | | | | |
| 03 | 04:33 | 3.3 | 19 | 05:45 | 2.9 | 03 | 05:45 | 3.3 | 19 | 06:12 | 2.6 | 03 | 04:40 | 3.5 | 19 | 05:02 | 2.8 | | | | | | |
| | 10:51 | 0.7 | | 11:55 | 0.9 | | 11:57 | 0.6 | | 12:15 | 1.1 | | 10:51 | 0.4 | | 11:04 | 0.9 | | | | | | |
| | SEX | 16:59 | | 3.0 | DOM | | 18:05 | 2.6 | | SEG | 18:09 | | 3.0 | QUA | | 18:35 | 2.5 | SEG | 17:00 | 3.2 | QUA | 17:18 | 2.8 |
| | 22:58 | 0.8 | | 23:59 | 1.0 | | 23:59 | 1.0 | | 23:06 | 0.5 | | 23:06 | 0.5 | | 23:24 | 1.0 | | | | | | |
| 04 | 05:17 | 3.3 | 20 | 06:21 | 2.7 | 04 | 00:11 | 0.7 | 20 | 00:37 | 1.2 | 04 | 05:23 | 3.3 | 20 | 05:36 | 2.6 | | | | | | |
| | 11:35 | 0.7 | | 12:31 | 1.0 | | 06:33 | 3.0 | | 06:55 | 2.4 | | 11:30 | 0.6 | | 11:34 | 1.1 | | | | | | |
| | 17:45 | 3.0 | | 18:46 | 2.5 | | TER | 12:42 | | 0.8 | QUI | | 12:57 | 1.2 | | TER | 17:43 | 3.1 | QUI | 17:55 | 2.6 | | |
| | 23:44 | 0.9 | | 23:44 | 0.9 | | 19:00 | 2.8 | | 19:28 | 2.3 | | 23:49 | 0.6 | | 23:49 | 0.6 | | | | | | |
| 05 | 06:05 | 3.2 | 21 | 00:41 | 1.1 | 05 | 01:03 | 0.9 | 21 | 01:36 | 1.3 | 05 | 06:10 | 3.0 | 21 | 00:01 | 1.2 | | | | | | |
| | 12:22 | 0.8 | | 07:03 | 2.5 | | 07:30 | 2.8 | | 07:58 | 2.2 | | 12:12 | 0.8 | | 06:17 | 2.4 | | | | | | |
| | DOM | 18:36 | | 2.9 | TER | | 13:14 | 1.1 | | QUA | 13:36 | | 1.0 | SEX | | 14:04 | 1.4 | QUA | 18:32 | 2.8 | SEX | 12:11 | 1.3 |
| | | | | 19:35 | 2.4 | | 19:35 | 2.4 | | 20:03 | 2.6 | | 20:46 | 2.3 | | 18:43 | 2.5 | | | | | | |
| 06 | 00:35 | 1.0 | 22 | 01:35 | 1.3 | 06 | 02:10 | 1.0 | 22 | 03:21 | 1.4 | 06 | 00:40 | 0.9 | 22 | 00:53 | 1.3 | | | | | | |
| | 06:59 | 3.0 | | 07:57 | 2.4 | | 08:41 | 2.5 | | 09:39 | 2.1 | | 07:07 | 2.7 | | 07:15 | 2.3 | | | | | | |
| | SEG | 13:15 | | 0.9 | QUA | | 14:11 | 1.2 | | QUI | 14:49 | | 1.2 | SÁB | | 15:59 | 1.4 | QUI | 13:03 | 1.1 | SÁB | 13:07 | 1.5 |
| | 19:34 | 2.8 | | 20:40 | 2.3 | | 21:21 | 2.5 | | 22:21 | 2.3 | | 19:35 | 2.6 | | 19:54 | 2.4 | | | | | | |
| 07 | 01:33 | 1.0 | 23 | 02:50 | 1.3 | 07 | 03:43 | 1.1 | 23 | 05:03 | 1.3 | 07 | 01:51 | 1.1 | 23 | 02:28 | 1.5 | | | | | | |
| | 08:00 | 2.9 | | 09:09 | 2.2 | | 10:10 | 2.4 | | 11:14 | 2.2 | | 08:24 | 2.4 | | 08:54 | 2.2 | | | | | | |
| | TER | 14:15 | | 1.0 | QUI | | 15:29 | 1.3 | | SEX | 16:24 | | 1.2 | DOM | | 17:21 | 1.3 | SEX | 14:23 | 1.3 | DOM | 15:05 | 1.6 |
| | 20:39 | 2.7 | | 21:57 | 2.3 | | 22:46 | 2.5 | | 23:33 | 2.5 | | 21:02 | 2.5 | | 21:34 | 2.4 | | | | | | |
| 08 | 02:42 | 1.1 | 24 | 04:20 | 1.3 | 08 | 05:19 | 1.1 | 24 | 06:05 | 1.1 | 08 | 03:43 | 1.2 | 24 | 04:24 | 1.4 | | | | | | |
| | 09:10 | 2.8 | | 10:31 | 2.2 | | 11:33 | 2.5 | | 12:15 | 2.5 | | 10:06 | 2.3 | | 10:41 | 2.3 | | | | | | |
| | QUA | 15:26 | | 1.1 | SEX | | 16:47 | 1.3 | | SÁB | 17:44 | | 1.1 | SEG | | 18:16 | 1.1 | SÁB | 16:19 | 1.4 | SEG | 16:47 | 1.4 |
| | 21:51 | 2.7 | | 23:06 | 2.4 | | 23:58 | 2.7 | | 23:58 | 2.7 | | 22:37 | 2.5 | | 22:57 | 2.6 | | | | | | |
| 09 | 04:01 | 1.1 | 25 | 05:32 | 1.2 | 09 | 06:30 | 0.9 | 25 | 00:27 | 2.8 | 09 | 05:21 | 1.1 | 25 | 05:31 | 1.2 | | | | | | |
| | 10:25 | 2.7 | | 11:40 | 2.3 | | 12:39 | 2.6 | | 06:53 | 0.9 | | 11:33 | 2.4 | | 11:46 | 2.6 | | | | | | |
| | QUI | 16:40 | | 1.0 | SÁB | | 17:48 | 1.2 | | DOM | 18:43 | | 1.0 | TER | | 13:02 | 2.7 | DOM | 17:39 | 1.2 | TER | 17:47 | 1.2 |
| | 23:01 | 2.7 | | 23:01 | 2.7 | | 19:02 | 0.9 | | 23:51 | 2.7 | | 23:55 | 2.9 | | | | | | | | | |
| 10 | 05:19 | 1.0 | 26 | 00:02 | 2.6 | 10 | 00:56 | 2.9 | 26 | 01:13 | 3.0 | 10 | 06:24 | 0.9 | 26 | 06:22 | 0.9 | | | | | | |
| | 11:35 | 2.7 | | 06:27 | 1.1 | | 07:24 | 0.7 | | 07:36 | 0.7 | | 12:32 | 2.6 | | 12:33 | 2.9 | | | | | | |
| | SEX | 17:47 | | 1.0 | DOM | | 12:34 | 2.5 | | SEG | 13:29 | | 2.7 | QUA | | 13:43 | 3.0 | SEG | 18:33 | 1.1 | QUA | 18:35 | 1.0 |
| | | | | 18:37 | 1.0 | | 19:31 | 0.8 | | 19:45 | 0.7 | | 19:45 | 0.7 | | | | | | | | | |
| 11 | 00:03 | 2.8 | 27 | 00:50 | 2.8 | 11 | 01:44 | 3.0 | 27 | 01:55 | 3.3 | 11 | 00:44 | 2.9 | 27 | 00:44 | 3.2 | | | | | | |
| | 06:26 | 0.8 | | 07:13 | 0.9 | | 08:08 | 0.6 | | 08:17 | 0.5 | | 07:11 | 0.8 | | 07:06 | 0.7 | | | | | | |
| | SÁB | 12:37 | | 2.8 | SEG | | 13:20 | 2.7 | | TER | 14:12 | | 2.9 | QUI | | 14:22 | 3.2 | TER | 13:16 | 2.8 | QUI | 13:15 | 3.2 |
| | 18:45 | 0.9 | | 19:21 | 0.9 | | 20:12 | 0.7 | | 20:27 | 0.5 | | 19:16 | 0.9 | | 19:19 | 0.7 | | | | | | |
| 12 | 00:59 | 3.0 | 28 | 01:34 | 3.0 | 12 | 02:26 | 3.2 | 28 | 02:37 | 3.5 | 12 | 01:27 | 3.1 | 28 | 01:28 | 3.4 | | | | | | |
| | 07:23 | 0.7 | | 07:56 | 0.8 | | 08:46 | 0.5 | | 08:57 | 0.4 | | 07:48 | 0.7 | | 07:49 | 0.5 | | | | | | |
| | DOM | 13:32 | | 2.9 | TER | | 14:02 | 2.9 | | QUA | 14:49 | | 3.0 | SEX | | 15:01 | 3.3 | QUA | 13:52 | 2.9 | SEX | 13:55 | 3.4 |
| | 19:35 | 0.8 | | 20:04 | 0.8 | | 20:48 | 0.6 | | 21:07 | 0.4 | | 19:52 | 0.8 | | 20:02 | 0.5 | | | | | | |
| 13 | 01:50 | 3.1 | 29 | 02:16 | 3.2 | 13 | 03:03 | 3.2 | 29 | 02:37 | 3.5 | 13 | 02:04 | 3.2 | 29 | 02:11 | 3.6 | | | | | | |
| | 08:13 | 0.6 | | 08:37 | 0.6 | | 09:19 | 0.5 | | 09:19 | 0.5 | | 08:20 | 0.6 | | 08:30 | 0.3 | | | | | | |
| | SEG | 14:20 | | 2.9 | QUA | | 14:43 | 3.0 | | QUI | 15:23 | | 3.0 | QUI | | 14:25 | 3.0 | SÁB | 14:35 | 3.5 | | | |
| | 20:21 | 0.7 | | 20:45 | 0.7 | | 21:21 | 0.6 | | 21:21 | 0.6 | | 20:25 | 0.7 | | 20:44 | 0.4 | | | | | | |
| 14 | 02:37 | 3.2 | 30 | 02:57 | 3.3 | 14 | 03:36 | 3.2 | 30 | 02:37 | 3.2 | 14 | 02:37 | 3.2 | 30 | 02:54 | 3.7 | | | | | | |
| | 08:58 | 0.6 | | 09:17 | 0.5 | | 09:49 | 0.5 | | 10:17 | 0.6 | | 08:50 | 0.6 | | 09:10 | 0.3 | | | | | | |
| | TER | 15:04 | | 3.0 | QUI | | 15:22 | 3.2 | | SEX | 15:54 | | 3.0 | SEX | | 14:55 | 3.1 | DOM | 15:15 | 3.5 | | | |
| | 21:02 | 0.7 | | 21:25 | 0.6 | | 21:51 | 0.6 | | 21:51 | 0.6 | | 20:55 | 0.6 | | 21:25 | 0.3 | | | | | | |
| 15 | 03:19 | 3.2 | 31 | 03:37 | 3.4 | 15 | 04:08 | 3.2 | 31 | 03:08 | 3.2 | 15 | 03:08 | 3.2 | 31 | 03:36 | 3.7 | | | | | | |
| | 09:38 | 0.6 | | 09:56 | 0.4 | | 10:17 | 0.6 | | 10:17 | 0.6 | | 09:17 | 0.6 | | 09:48 | 0.3 | | | | | | |
| | QUA | 15:44 | | 3.0 | SEX | | 16:02 | 3.2 | | SÁB | 16:24 | | 3.0 | SÁB | | 15:23 | 3.1 | SEG | 15:56 | 3.5 | | | |
| | 21:40 | 0.7 | | 22:05 | 0.5 | | 22:21 | 0.6 | | 22:21 | 0.6 | | 21:24 | 0.6 | | 22:06 | 0.3 | | | | | | |
| 16 | 03:59 | 3.2 | 16 | 04:37 | 3.1 | 16 | 04:37 | 3.1 | 16 | 03:36 | 3.2 | 16 | 03:36 | 3.2 | 16 | 03:36 | 3.7 | | | | | | |
| | 10:15 | 0.6 | | 10:45 | 0.7 | | 10:45 | 0.7 | | 10:45 | 0.7 | | 09:43 | 0.6 | | 09:48 | 0.3 | | | | | | |
| | QUI | 16:21 | | 2.9 | DOM | | 16:53 | 2.9 | | DOM | 16:53 | | 2.9 | DOM | | 15:51 | 3.1 | SEG | 15:56 | 3.5 | | | |
| | 22:15 | 0.7 | | 22:50 | 0.7 | | 22:50 | 0.7 | | 22:50 | 0.7 | | 21:52 | 0.6 | | 22:06 | 0.3 | | | | | | |

Porto de Vila Real de Santo António

Latitude 37° 11.60' N Longitude 7° 24.80' W

Horas do Fuso: 0 (TU)

Ano: 2025

| ABRIL | | | | MAIO | | | | JUNHO | | | | | | | | | |
|-----------|-------|--------|-----------|-------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-----|-----------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 04:19 | 3.5 | 17 | 04:37 | 2.8 | 01 | 04:49 | 3.2 | 17 | 05:01 | 2.8 | 01 | 00:11 | 1.0 | 17 | 00:17 | 1.0 |
| | 10:27 | 0.5 | | 10:35 | 1.0 | | 10:46 | 0.8 | | 10:54 | 1.2 | | 06:24 | 2.7 | | 06:31 | 2.8 |
| TER | 16:37 | 3.4 | QUI | 16:52 | 2.9 | QUI | 17:07 | 3.2 | SÁB | 17:18 | 3.0 | DOM | 12:13 | 1.2 | TER | 12:25 | 1.2 |
| | 22:48 | 0.5 | | 23:02 | 1.0 | | 23:23 | 0.8 | | 23:35 | 1.1 | | 18:45 | 3.0 | | 18:51 | 3.0 |
| 02 | 05:03 | 3.3 | 18 | 05:13 | 2.7 | 02 | 05:41 | 2.9 | 18 | 05:48 | 2.7 | 02 | 01:11 | 1.1 | 18 | 01:12 | 1.0 |
| | 11:06 | 0.7 | | 11:07 | 1.1 | | 11:32 | 1.1 | | 11:38 | 1.3 | | 07:24 | 2.6 | | 07:30 | 2.8 |
| QUA | 17:22 | 3.2 | SEX | 17:30 | 2.8 | SEX | 18:01 | 3.0 | DOM | 18:08 | 2.9 | SEG | 13:16 | 1.4 | QUA | 13:26 | 1.2 |
| | 23:33 | 0.7 | | 23:42 | 1.2 | | | | | | | | 19:46 | 2.8 | (| 19:51 | 3.0 |
| 03 | 05:53 | 3.0 | 19 | 05:57 | 2.6 | 03 | 00:22 | 1.0 | 19 | 00:29 | 1.2 | 03 | 02:15 | 1.2 | 19 | 02:13 | 1.0 |
| | 11:48 | 1.0 | | 11:46 | 1.3 | | 06:42 | 2.7 | | 06:47 | 2.6 | | 08:30 | 2.5 | | 08:36 | 2.7 |
| QUI | 18:13 | 2.9 | SÁB | 18:19 | 2.7 | SÁB | 12:29 | 1.3 | SEG | 12:37 | 1.4 | TER | 14:27 | 1.4 | QUI | 14:34 | 1.2 |
| | | | | | | | 19:06 | 2.9 | | 19:10 | 2.9 |) | 20:50 | 2.7 | | 20:57 | 2.9 |
| 04 | 00:27 | 1.0 | 20 | 00:36 | 1.3 | 04 | 01:39 | 1.2 | 20 | 01:38 | 1.3 | 04 | 03:18 | 1.2 | 20 | 03:19 | 1.0 |
| | 06:52 | 2.7 | | 06:57 | 2.4 | | 07:57 | 2.5 | | 07:59 | 2.6 | | 09:36 | 2.5 | | 09:43 | 2.8 |
| SEX | 12:41 | 1.3 | DOM | 12:44 | 1.5 | DOM | 13:52 | 1.5 | TER | 13:55 | 1.5 | QUA | 15:36 | 1.4 | SEX | 15:45 | 1.2 |
| | 19:19 | 2.7 | | 19:27 | 2.6 |) | 20:23 | 2.7 | (| 20:21 | 2.9 | | 21:53 | 2.7 | | 22:06 | 3.0 |
| 05 | 01:47 | 1.2 | 21 | 01:59 | 1.4 | 05 | 03:04 | 1.3 | 21 | 02:53 | 1.2 | 05 | 04:15 | 1.2 | 21 | 04:25 | 1.0 |
| | 08:14 | 2.4 | | 08:25 | 2.4 | | 09:20 | 2.5 | | 09:16 | 2.7 | | 10:36 | 2.6 | | 10:47 | 2.9 |
| SÁB | 14:11 | 1.5 | SEG | 14:25 | 1.6 | SEG | 15:23 | 1.5 | QUA | 15:16 | 1.4 | QUI | 16:36 | 1.3 | SÁB | 16:54 | 1.0 |
|) | 20:47 | 2.6 | (| 20:54 | 2.7 |) | 21:41 | 2.7 |) | 21:34 | 2.9 |) | 22:51 | 2.7 |) | 23:11 | 3.0 |
| 06 | 03:36 | 1.3 | 22 | 03:37 | 1.3 | 06 | 04:16 | 1.2 | 22 | 04:02 | 1.1 | 06 | 05:05 | 1.1 | 22 | 05:27 | 0.9 |
| | 09:54 | 2.4 | | 10:00 | 2.5 | | 10:33 | 2.6 | | 10:24 | 2.8 | | 11:26 | 2.7 | | 11:44 | 3.0 |
| DOM | 16:02 | 1.5 | TER | 16:02 | 1.5 | TER | 16:34 | 1.4 | QUI | 16:25 | 1.2 | SEX | 17:28 | 1.2 | DOM | 17:57 | 0.9 |
| | 22:18 | 2.6 | | 22:15 | 2.8 | | 22:47 | 2.8 | | 22:40 | 3.1 | | 23:40 | 2.7 | | | |
| 07 | 05:00 | 1.2 | 23 | 04:48 | 1.2 | 07 | 05:12 | 1.1 | 23 | 05:02 | 0.9 | 07 | 05:49 | 1.1 | 23 | 00:11 | 3.0 |
| | 11:14 | 2.5 | | 11:07 | 2.8 | | 11:29 | 2.7 | | 11:21 | 3.0 | | 12:07 | 2.8 | | 06:23 | 0.8 |
| SEG | 17:16 | 1.3 | QUA | 17:08 | 1.3 | QUA | 17:28 | 1.3 | SEX | 17:25 | 1.0 | SÁB | 18:13 | 1.1 | SEG | 12:38 | 3.1 |
| | 23:27 | 2.8 | | 23:18 | 3.0 | | 23:39 | 2.8 | | 23:38 | 3.2 | | | | | 18:56 | 0.8 |
| 08 | 05:57 | 1.0 | 24 | 05:43 | 0.9 | 08 | 05:56 | 1.0 | 24 | 05:56 | 0.8 | 08 | 00:22 | 2.7 | 24 | 01:07 | 3.1 |
| | 12:08 | 2.7 | | 11:58 | 3.0 | | 12:11 | 2.8 | | 12:11 | 3.2 | | 06:28 | 1.0 | | 07:16 | 0.8 |
| TER | 18:08 | 1.2 | QUI | 18:01 | 1.0 | QUI | 18:11 | 1.1 | SÁB | 18:19 | 0.8 | DOM | 12:45 | 2.9 | TER | 13:31 | 3.2 |
| | | | | | | | | | | | | | 18:54 | 1.0 | | 19:52 | 0.7 |
| 09 | 00:18 | 2.9 | 25 | 00:11 | 3.3 | 09 | 00:22 | 2.9 | 25 | 00:31 | 3.3 | 09 | 01:02 | 2.8 | 25 | 02:01 | 3.1 |
| | 06:40 | 0.9 | | 06:32 | 0.7 | | 06:33 | 1.0 | | 06:47 | 0.7 | | 07:06 | 0.9 | | 08:06 | 0.7 |
| QUA | 12:48 | 2.9 | SEX | 12:43 | 3.2 | SEX | 12:46 | 2.9 | DOM | 12:58 | 3.3 | SEG | 13:21 | 2.9 | QUA | 14:22 | 3.3 |
| | 18:48 | 1.0 | | 18:49 | 0.8 | | 18:48 | 1.0 | | 19:11 | 0.7 | | 19:33 | 1.0 | ● | 20:44 | 0.6 |
| 10 | 00:59 | 3.0 | 26 | 00:59 | 3.5 | 10 | 00:58 | 3.0 | 26 | 01:22 | 3.4 | 10 | 01:40 | 2.8 | 26 | 02:52 | 3.1 |
| | 07:15 | 0.8 | | 07:17 | 0.5 | | 07:06 | 0.9 | | 07:35 | 0.6 | | 07:42 | 0.9 | | 08:53 | 0.7 |
| QUI | 13:23 | 3.0 | SÁB | 13:26 | 3.4 | SÁB | 13:19 | 3.0 | SEG | 13:45 | 3.4 | TER | 13:57 | 3.0 | QUI | 15:11 | 3.4 |
| | 19:23 | 0.9 | | 19:35 | 0.6 | | 19:23 | 0.9 | | 20:01 | 0.6 | | 20:12 | 0.9 | | 21:33 | 0.6 |
| 11 | 01:34 | 3.1 | 27 | 01:45 | 3.6 | 11 | 01:32 | 3.0 | 27 | 02:12 | 3.4 | 11 | 02:18 | 2.8 | 27 | 03:40 | 3.1 |
| | 07:46 | 0.7 | | 08:01 | 0.4 | | 07:38 | 0.8 | | 08:21 | 0.6 | | 08:18 | 0.9 | | 09:38 | 0.8 |
| SEX | 13:54 | 3.1 | DOM | 14:08 | 3.5 | DOM | 13:50 | 3.1 | TER | 14:32 | 3.4 | QUA | 14:33 | 3.1 | SEX | 15:58 | 3.4 |
| | 19:55 | 0.8 | ● | 20:20 | 0.4 | | 19:57 | 0.9 | ● | 20:50 | 0.5 | ○ | 20:49 | 0.9 | | 22:19 | 0.6 |
| 12 | 02:06 | 3.2 | 28 | 02:30 | 3.6 | 12 | 02:05 | 3.0 | 28 | 03:01 | 3.3 | 12 | 02:55 | 2.9 | 28 | 04:26 | 3.0 |
| | 08:14 | 0.7 | | 08:43 | 0.4 | | 08:09 | 0.8 | | 09:05 | 0.6 | | 08:54 | 0.9 | | 10:21 | 0.8 |
| SÁB | 14:23 | 3.1 | SEG | 14:51 | 3.6 | SEG | 14:21 | 3.1 | QUA | 15:20 | 3.4 | QUI | 15:10 | 3.1 | SÁB | 16:43 | 3.3 |
| | 20:25 | 0.7 | | 21:05 | 0.4 | ○ | 20:30 | 0.8 | | 21:38 | 0.5 | | 21:27 | 0.9 | | 23:03 | 0.7 |
| 13 | 02:36 | 3.2 | 29 | 03:16 | 3.5 | 13 | 02:38 | 3.0 | 29 | 03:50 | 3.2 | 13 | 03:33 | 2.9 | 29 | 05:10 | 2.9 |
| | 08:42 | 0.7 | | 09:24 | 0.5 | | 08:41 | 0.8 | | 09:49 | 0.8 | | 09:30 | 0.9 | | 11:03 | 0.9 |
| DOM | 14:51 | 3.2 | TER | 15:34 | 3.5 | TER | 14:52 | 3.1 | QUI | 16:08 | 3.4 | SEX | 15:48 | 3.1 | DOM | 17:28 | 3.2 |
| ○ | 20:55 | 0.7 | | 21:49 | 0.4 | | 21:04 | 0.8 | | 22:27 | 0.6 | | 22:05 | 0.9 | | 23:46 | 0.9 |
| 14 | 03:05 | 3.1 | 30 | 04:01 | 3.4 | 14 | 03:11 | 3.0 | 30 | 04:39 | 3.1 | 14 | 04:12 | 2.9 | 30 | 05:54 | 2.8 |
| | 09:10 | 0.7 | | 10:05 | 0.6 | | 09:12 | 0.9 | | 10:33 | 0.9 | | 10:08 | 1.0 | | 11:45 | 1.1 |
| SEG | 15:19 | 3.1 | QUA | 16:19 | 3.4 | QUA | 15:25 | 3.1 | SEX | 16:57 | 3.3 | SÁB | 16:27 | 3.2 | SEG | 18:12 | 3.0 |
| | 21:26 | 0.7 | | 22:34 | 0.6 | | 21:38 | 0.9 | | 23:17 | 0.8 | | 22:45 | 0.9 | | | |
| 15 | 03:35 | 3.1 | | | | 15 | 03:45 | 2.9 | 31 | 05:29 | 2.9 | 15 | 04:54 | 2.9 | | | |
| | 09:38 | 0.7 | | | | | 09:44 | 0.9 | | 11:20 | 1.1 | | 10:48 | 1.1 | | | |
| TER | 15:48 | 3.1 | | | | QUI | 15:59 | 3.1 | SÁB | 17:49 | 3.1 | DOM | 17:10 | 3.1 | | | |
| | 21:56 | 0.8 | | | | | 22:13 | 1.0 | | | | | 23:29 | 1.0 | | | |
| 16 | 04:05 | 3.0 | | | | 16 | 04:21 | 2.8 | | | | 16 | 05:39 | 2.8 | | | |
| | 10:06 | 0.8 | | | | | 10:17 | 1.0 | | | | | 11:33 | 1.1 | | | |
| QUA | 16:18 | 3.0 | | | | SEX | 16:36 | 3.0 | | | | | 17:57 | 3.1 | | | |
| | 22:28 | 0.9 | | | | | 22:51 | 1.0 | | | | | | | | | |

Porto de Vila Real de Santo António

Latitude 37° 11.60' N Longitude 7° 24.80' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JULHO | | | | AGOSTO | | | | SETEMBRO | | | | | | | | | | | | | |
|-----------|-----------|---------|-----------|-----------|--------|-----------|-----------|----------|-----------|-----------|---------|-----------|-----------|---------|-----------|-----------|-----|-------|-----|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | | | | | |
| 01 | 00:30 | 1.0 | 17 | 00:43 | 0.9 | 01 | 00:58 | 1.2 | 17 | 02:07 | 1.2 | 01 | 01:48 | 1.6 | 17 | 05:06 | 1.4 | | | | |
| | 06:40 | 2.7 | | 06:59 | 2.9 | | 07:19 | 2.5 | | 08:41 | 2.7 | | 08:36 | 2.4 | | 11:19 | 2.9 | | | | |
| | TER 12:31 | 1.2 | | QUI 12:57 | 1.0 | | SEX 13:15 | 1.3 | | DOM 14:55 | 1.3 | | SEG 15:12 | 1.6 | | QUA 17:53 | 1.1 | | | | |
| | 18:59 | 2.8 | | 19:22 | 3.0 |) 19:38 | 2.5 | | 21:24 | 2.6 | | 21:27 | 2.3 | | | | | | | | |
| 02 | 01:16 | 1.1 | 18 | 01:37 | 1.0 | 02 | 01:50 | 1.3 | 18 | 03:38 | 1.3 | 02 | 03:50 | 1.6 | 18 | 00:01 | 2.8 | | | | |
| | 07:31 | 2.6 | | 07:59 | 2.8 | | 08:21 | 2.4 | | 10:07 | 2.7 | | 10:14 | 2.5 | | 06:04 | 1.2 | | | | |
| | QUA 13:24 | 1.3 | | SEX 13:58 | 1.1 | | SÁB 14:25 | 1.4 | | SEG 16:37 | 1.2 | | TER 16:56 | 1.5 | | QUI 12:17 | 3.1 | | | | |
|) 19:50 | 2.7 | (20:25 | 2.9 | 20:46 | 2.3 | 22:54 | 2.6 | 23:04 | 2.4 | 23:04 | 2.4 | 18:44 | 1.0 | | | | | | | | |
| 03 | 02:08 | 1.2 | 19 | 02:40 | 1.1 | 03 | 03:05 | 1.4 | 19 | 05:07 | 1.3 | 03 | 05:10 | 1.5 | 19 | 00:49 | 3.0 | | | | |
| | 08:29 | 2.5 | | 09:08 | 2.7 | | 09:39 | 2.4 | | 11:25 | 2.8 | | 11:24 | 2.7 | | 06:50 | 1.0 | | | | |
| | QUI 14:25 | 1.4 | | SÁB 15:12 | 1.2 | | DOM 16:00 | 1.5 | | TER 17:57 | 1.1 | | QUA 17:54 | 1.3 | | SEX 13:02 | 3.3 | | | | |
| | 20:48 | 2.5 | | 21:38 | 2.8 | 22:12 | 2.3 | | | | | | | 19:24 | 0.8 | | | | | | |
| 04 | 03:07 | 1.3 | 20 | 03:54 | 1.1 | 04 | 04:29 | 1.4 | 20 | 00:06 | 2.7 | 04 | 00:02 | 2.6 | 20 | 01:28 | 3.1 | | | | |
| | 09:33 | 2.5 | | 10:20 | 2.7 | | 10:53 | 2.5 | | 06:12 | 1.1 | | 06:01 | 1.3 | | 07:28 | 0.9 | | | | |
| | SEX 15:35 | 1.4 | | DOM 16:35 | 1.1 | | SEG 17:19 | 1.4 | | QUA 12:27 | 3.0 | | QUI 12:14 | 2.9 | | SÁB 13:41 | 3.4 | | | | |
| | 21:53 | 2.5 | | 22:54 | 2.7 | | 23:26 | 2.4 | | 18:56 | 0.9 | | 18:38 | 1.1 | | 19:59 | 0.8 | | | | |
| 05 | 04:10 | 1.2 | 21 | 05:09 | 1.1 | 05 | 05:33 | 1.3 | 21 | 01:02 | 2.9 | 05 | 00:45 | 2.8 | 21 | 02:02 | 3.2 | | | | |
| | 10:35 | 2.5 | | 11:29 | 2.8 | | 11:52 | 2.6 | | 07:04 | 1.0 | | 06:44 | 1.1 | | 08:03 | 0.8 | | | | |
| | SÁB 16:43 | 1.3 | | SEG 17:51 | 1.0 | | TER 18:16 | 1.2 | | QUI 13:19 | 3.2 | | SEX 12:55 | 3.2 | | DOM 14:16 | 3.5 | | | | |
| | 22:56 | 2.5 | | | | | | | 19:44 | 0.8 | | 19:17 | 0.9 | ● 20:30 | 0.7 | | | | | | |
| 06 | 05:07 | 1.2 | 22 | 00:04 | 2.8 | 06 | 00:23 | 2.5 | 22 | 01:47 | 3.0 | 06 | 01:23 | 3.1 | 22 | 02:35 | 3.3 | | | | |
| | 11:29 | 2.6 | | 06:13 | 1.0 | | 06:22 | 1.2 | | 07:48 | 0.8 | | 07:24 | 0.9 | | 08:35 | 0.8 | | | | |
| | DOM 17:42 | 1.2 | | TER 12:30 | 3.0 | | QUA 12:39 | 2.8 | | SEX 14:03 | 3.4 | | SÁB 13:35 | 3.4 | | SEG 14:49 | 3.5 | | | | |
| | 23:51 | 2.5 | | 18:55 | 0.9 | | 19:02 | 1.1 | | 20:25 | 0.7 | | 19:56 | 0.8 | | 20:59 | 0.7 | | | | |
| 07 | 05:57 | 1.1 | 23 | 01:04 | 2.9 | 07 | 01:08 | 2.7 | 23 | 02:27 | 3.1 | 07 | 02:00 | 3.3 | 23 | 03:05 | 3.3 | | | | |
| | 12:16 | 2.7 | | 07:09 | 0.9 | | 07:06 | 1.1 | | 08:27 | 0.7 | | 08:03 | 0.8 | | 09:05 | 0.8 | | | | |
| | SEG 18:32 | 1.1 | | QUA 13:25 | 3.2 | | QUI 13:21 | 3.0 | | SÁB 14:42 | 3.5 | | DOM 14:14 | 3.6 | | TER 15:19 | 3.4 | | | | |
| | | | 19:50 | 0.7 | | 19:43 | 1.0 | ● 21:01 | 0.6 | ○ 20:34 | 0.6 | | 21:27 | 0.8 | | 21:27 | 0.8 | | | | |
| 08 | 00:39 | 2.6 | 24 | 01:57 | 3.0 | 08 | 01:48 | 2.9 | 24 | 03:03 | 3.2 | 08 | 02:37 | 3.4 | 24 | 03:33 | 3.2 | | | | |
| | 06:41 | 1.1 | | 07:58 | 0.8 | | 07:46 | 0.9 | | 09:02 | 0.7 | | 08:42 | 0.6 | | 09:35 | 0.8 | | | | |
| | TER 12:59 | 2.8 | | QUI 14:15 | 3.3 | | SEX 14:00 | 3.2 | | DOM 15:18 | 3.5 | | SEG 14:53 | 3.7 | | QUA 15:48 | 3.3 | | | | |
| | 19:17 | 1.0 | ● 20:39 | 0.6 | | 20:22 | 0.8 | | 21:33 | 0.6 | | 21:11 | 0.5 | | 21:53 | 0.8 | | | | | |
| 09 | 01:23 | 2.7 | 25 | 02:43 | 3.1 | 09 | 02:25 | 3.0 | 25 | 03:37 | 3.2 | 09 | 03:15 | 3.5 | 25 | 04:02 | 3.2 | | | | |
| | 07:22 | 1.0 | | 08:43 | 0.7 | | 08:26 | 0.8 | | 09:35 | 0.7 | | 09:21 | 0.6 | | 10:04 | 0.9 | | | | |
| | QUA 13:39 | 2.9 | | SEX 15:01 | 3.4 | | SÁB 14:39 | 3.4 | | SEG 15:52 | 3.4 | | TER 15:32 | 3.8 | | QUI 16:17 | 3.1 | | | | |
| | 19:58 | 1.0 | | 21:22 | 0.6 | ○ 20:59 | 0.7 | | 22:03 | 0.7 | | 21:49 | 0.5 | | 22:20 | 0.9 | | | | | |
| 10 | 02:04 | 2.8 | 26 | 03:26 | 3.1 | 10 | 03:03 | 3.2 | 26 | 04:08 | 3.1 | 10 | 03:53 | 3.5 | 26 | 04:31 | 3.1 | | | | |
| | 08:02 | 0.9 | | 09:24 | 0.7 | | 09:04 | 0.7 | | 10:06 | 0.8 | | 10:00 | 0.5 | | 10:34 | 1.0 | | | | |
| | QUI 14:18 | 3.1 | | SÁB 15:42 | 3.4 | | DOM 15:17 | 3.5 | | TER 16:23 | 3.3 | | QUA 16:13 | 3.7 | | SEX 16:47 | 3.0 | | | | |
| ○ 20:38 | 0.9 | | 22:01 | 0.6 | | 21:37 | 0.6 | | 22:31 | 0.8 | | 22:26 | 0.6 | | 22:48 | 1.1 | | | | | |
| 11 | 02:43 | 2.9 | 27 | 04:05 | 3.1 | 11 | 03:40 | 3.3 | 27 | 04:38 | 3.0 | 11 | 04:33 | 3.4 | 27 | 05:02 | 2.9 | | | | |
| | 08:41 | 0.9 | | 10:01 | 0.7 | | 09:43 | 0.7 | | 10:36 | 0.8 | | 10:40 | 0.6 | | 11:07 | 1.2 | | | | |
| | SEX 14:57 | 3.2 | | DOM 16:21 | 3.4 | | SEG 15:56 | 3.6 | | QUA 16:53 | 3.1 | | QUI 16:55 | 3.5 | | SÁB 17:20 | 2.8 | | | | |
| | 21:17 | 0.8 | | 22:37 | 0.7 | | 22:14 | 0.6 | | 22:59 | 0.9 | | 23:04 | 0.7 | | 23:18 | 1.3 | | | | |
| 12 | 03:21 | 3.0 | 28 | 04:41 | 3.0 | 12 | 04:19 | 3.3 | 28 | 05:08 | 2.9 | 12 | 05:15 | 3.3 | 28 | 05:39 | 2.8 | | | | |
| | 09:20 | 0.9 | | 10:37 | 0.8 | | 10:21 | 0.7 | | 11:07 | 1.0 | | 11:22 | 0.8 | | 11:45 | 1.4 | | | | |
| | SÁB 15:36 | 3.3 | | SEG 16:58 | 3.2 | | TER 16:36 | 3.5 | | QUI 17:24 | 2.9 | | SEX 17:41 | 3.3 | | DOM 18:00 | 2.6 | | | | |
| | 21:55 | 0.8 | | 23:10 | 0.8 | | 22:52 | 0.6 | | 23:28 | 1.0 | | 23:45 | 0.9 | | 23:54 | 1.5 | | | | |
| 13 | 04:00 | 3.0 | 29 | 05:17 | 2.9 | 13 | 04:59 | 3.2 | 29 | 05:41 | 2.8 | 13 | 06:03 | 3.1 | 29 | 06:27 | 2.6 | | | | |
| | 09:59 | 0.8 | | 11:11 | 0.9 | | 11:01 | 0.7 | | 11:40 | 1.1 | | 12:10 | 1.0 | | 12:37 | 1.6 | | | | |
| | DOM 16:15 | 3.3 | | TER 17:33 | 3.1 | | QUA 17:18 | 3.4 | | SEX 17:58 | 2.7 | | SÁB 18:34 | 3.0 | | SEG 18:58 | 2.4 | | | | |
| | 22:34 | 0.7 | | 23:44 | 0.9 | | 23:31 | 0.7 | | | | | |) 18:58 | 2.4 | | | | | | |
| 14 | 04:40 | 3.0 | 30 | 05:53 | 2.8 | 14 | 05:41 | 3.1 | 30 | 00:00 | 1.2 | 14 | 00:34 | 1.2 | 30 | 00:49 | 1.7 | | | | |
| | 10:39 | 0.9 | | 11:46 | 1.0 | | 11:43 | 0.8 | | 06:21 | 2.6 | | 07:03 | 2.9 | | 07:41 | 2.5 | | | | |
| | SEG 16:56 | 3.3 | | QUA 18:09 | 2.9 | | QUI 18:03 | 3.2 | | SÁB 12:21 | 1.3 | | DOM 13:14 | 1.2 | | TER 14:18 | 1.7 | | | | |
| | 23:14 | 0.8 | | | | | | | 18:40 | 2.5 | (19:46 | 2.7 | | 20:41 | 2.3 | | | | | | |
| 15 | 05:22 | 3.0 | 31 | 00:18 | 1.0 | 15 | 00:13 | 0.8 | 31 | 00:41 | 1.4 | 15 | 01:45 | 1.4 | 15 | 01:45 | 1.4 | | | | |
| | 11:20 | 0.9 | | 06:32 | 2.6 | | 06:29 | 2.9 | | 07:14 | 2.5 | | 08:26 | 2.7 | | 08:26 | 2.7 | | | | |
| | TER 17:40 | 3.3 | | QUI 12:26 | 1.2 | | SEX 12:31 | 1.0 | | DOM 13:19 | 1.5 | | SEG 14:58 | 1.4 | | 14:58 | 1.4 | | | | |
| | 23:57 | 0.8 | | 18:49 | 2.7 | | 18:55 | 3.0 |) 19:42 | 2.3 | | 21:23 | 2.6 | | 21:23 | 2.6 | | | | | |
| 16 | 06:08 | 2.9 | | | | 16 | 01:03 | 1.0 | | | | 16 | 03:38 | 1.5 | | | | | | | |
| | 12:06 | 1.0 | | | | | SÁB 13:30 | 1.1 | | | | | 07:27 | 2.8 | | | | 10:01 | 2.7 | 16:44 | 1.3 |
| | QUA 18:28 | 3.2 | | | | | (20:00 | 2.8 | | | | | | | | | | 22:56 | 2.6 | | |

Porto de Vila Real de Santo António

Latitude 37° 11.60' N Longitude 7° 24.80' W

Horas do Fuso: 0 (TU)

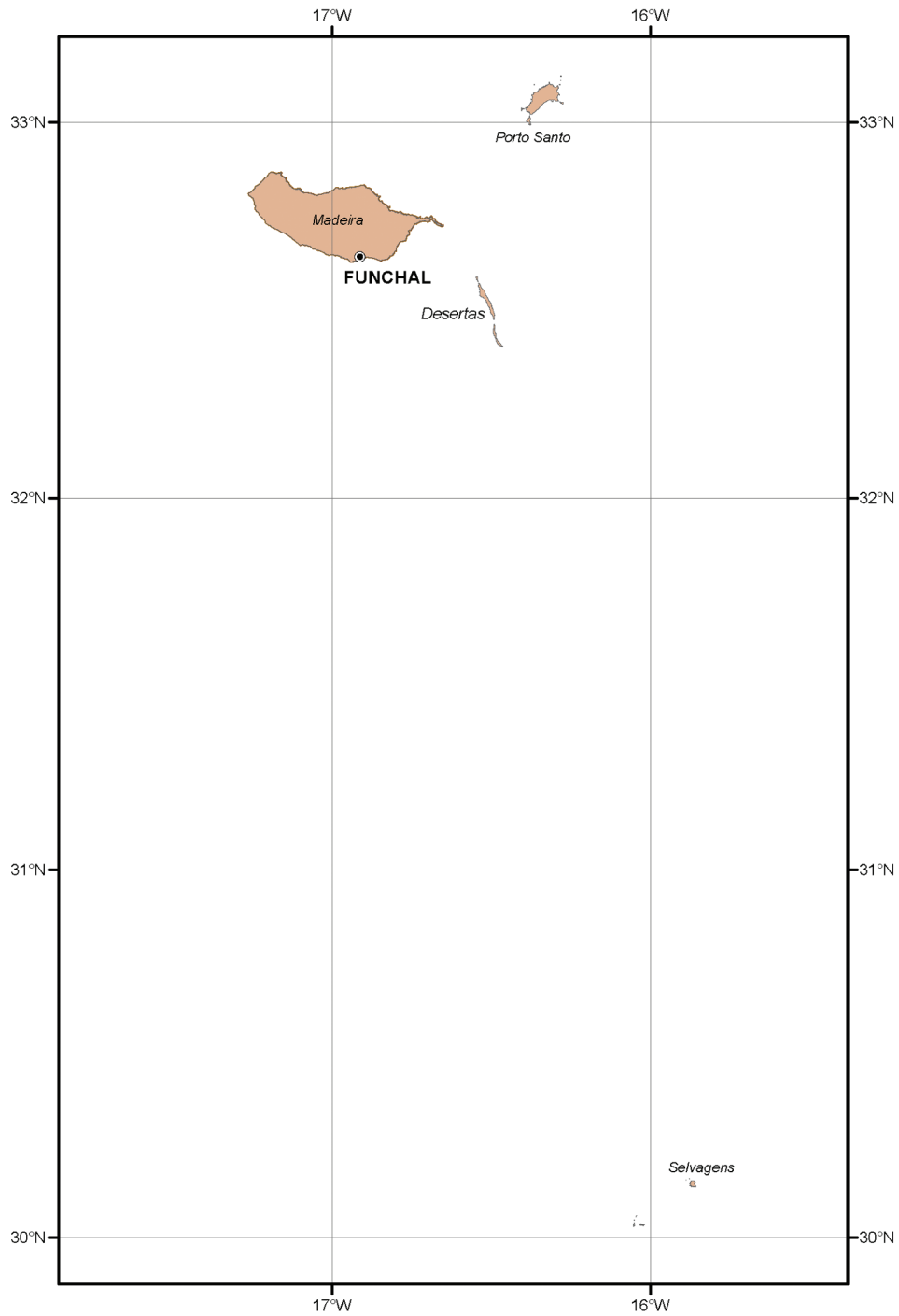
Ano: 2025

| OUTUBRO | | | | NOVEMBRO | | | | DEZEMBRO | | | | | | | | | |
|-----------|-------|--------|-----------|----------|--------|-----------|--------|----------|-----------|-------|--------|-----------|-------|-----|-----------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 02:56 | 1.8 | 17 | 05:42 | 1.3 | 01 | 04:45 | 1.4 | 17 | 00:28 | 3.0 | 01 | 04:57 | 1.1 | 17 | 00:33 | 2.8 |
| | 09:25 | 2.6 | | 11:53 | 3.1 | | 10:55 | 3.1 | | 06:31 | 1.1 | | 11:10 | 3.1 | | 06:44 | 1.0 |
| | 16:16 | 1.6 | SEX | 18:16 | 1.1 | SÁB | 17:20 | 1.1 | SEG | 12:42 | 3.0 | SEG | 17:29 | 0.9 | QUA | 12:54 | 2.7 |
| | 22:29 | 2.5 | | | | | 23:34 | 3.0 | | 18:51 | 1.0 | | 23:43 | 3.1 | | 18:56 | 1.0 |
| 02 | 04:34 | 1.6 | 18 | 00:24 | 3.0 | 02 | 05:36 | 1.2 | 18 | 01:02 | 3.1 | 02 | 05:52 | 0.9 | 18 | 01:11 | 2.9 |
| | 10:44 | 2.8 | | 06:25 | 1.1 | | 11:46 | 3.3 | | 07:07 | 1.0 | | 12:04 | 3.3 | | 07:24 | 1.0 |
| | 17:17 | 1.4 | SÁB | 12:36 | 3.2 | DOM | 18:06 | 0.9 | TER | 13:18 | 3.1 | TER | 18:20 | 0.8 | QUI | 13:33 | 2.8 |
| | 23:29 | 2.7 | | 18:53 | 1.0 | | | | | 19:23 | 0.9 | | | | | 19:32 | 0.9 |
| 03 | 05:29 | 1.4 | 19 | 01:00 | 3.2 | 03 | 00:18 | 3.3 | 19 | 01:35 | 3.1 | 03 | 00:32 | 3.3 | 19 | 01:48 | 3.0 |
| | 11:38 | 3.0 | | 07:02 | 1.0 | | 06:23 | 0.9 | | 07:41 | 0.9 | | 06:44 | 0.7 | | 08:01 | 0.9 |
| | 18:03 | 1.2 | DOM | 13:13 | 3.3 | SEG | 12:33 | 3.5 | QUA | 13:52 | 3.1 | QUA | 12:56 | 3.4 | SEX | 14:10 | 2.8 |
| | | | | 19:26 | 0.9 | | 18:51 | 0.7 | | 19:54 | 0.9 | | 19:09 | 0.7 | | 20:08 | 0.9 |
| 04 | 00:13 | 3.0 | 20 | 01:33 | 3.2 | 04 | 01:00 | 3.5 | 20 | 02:06 | 3.2 | 04 | 01:19 | 3.4 | 20 | 02:23 | 3.0 |
| | 06:13 | 1.2 | | 07:35 | 0.9 | | 07:08 | 0.7 | | 08:15 | 0.9 | | 07:35 | 0.6 | | 08:38 | 0.9 |
| | 12:22 | 3.3 | SEG | 13:47 | 3.3 | TER | 13:18 | 3.6 | QUI | 14:25 | 3.1 | QUI | 13:46 | 3.4 | SÁB | 14:46 | 2.8 |
| | 18:44 | 0.9 | | 19:56 | 0.8 | | 19:34 | 0.6 | ● | 20:25 | 0.9 | ○ | 19:56 | 0.6 | ● | 20:43 | 0.9 |
| 05 | 00:52 | 3.2 | 21 | 02:04 | 3.3 | 05 | 01:42 | 3.6 | 21 | 02:38 | 3.2 | 05 | 02:07 | 3.5 | 21 | 02:59 | 3.1 |
| | 06:55 | 1.0 | | 08:07 | 0.9 | | 07:53 | 0.6 | | 08:49 | 0.9 | | 08:25 | 0.5 | | 09:14 | 0.9 |
| | 13:04 | 3.5 | TER | 14:18 | 3.3 | QUA | 14:03 | 3.7 | SEX | 14:58 | 3.0 | SEX | 14:36 | 3.4 | DOM | 15:22 | 2.9 |
| | 19:24 | 0.7 | ● | 20:25 | 0.8 | ○ | 20:17 | 0.6 | | 20:57 | 0.9 | | 20:42 | 0.6 | | 21:18 | 0.9 |
| 06 | 01:30 | 3.5 | 22 | 02:33 | 3.3 | 06 | 02:24 | 3.6 | 22 | 03:10 | 3.2 | 06 | 02:55 | 3.5 | 22 | 03:34 | 3.1 |
| | 07:36 | 0.7 | | 08:37 | 0.8 | | 08:38 | 0.5 | | 09:23 | 0.9 | | 09:14 | 0.5 | | 09:50 | 0.9 |
| | 13:45 | 3.7 | QUA | 14:49 | 3.3 | QUI | 14:49 | 3.7 | SÁB | 15:31 | 3.0 | SÁB | 15:25 | 3.3 | SEG | 15:58 | 2.9 |
| | 20:04 | 0.6 | | 20:53 | 0.8 | | 20:59 | 0.6 | | 21:29 | 1.0 | | 21:27 | 0.7 | | 21:53 | 1.0 |
| 07 | 02:09 | 3.6 | 23 | 03:02 | 3.3 | 07 | 03:08 | 3.6 | 23 | 03:44 | 3.1 | 07 | 03:44 | 3.5 | 23 | 04:11 | 3.1 |
| | 08:17 | 0.6 | | 09:08 | 0.9 | | 09:23 | 0.5 | | 09:57 | 1.0 | | 10:03 | 0.6 | | 10:27 | 0.9 |
| | 14:27 | 3.8 | QUI | 15:19 | 3.2 | SEX | 15:35 | 3.6 | DOM | 16:06 | 2.9 | DOM | 16:15 | 3.2 | TER | 16:35 | 2.9 |
| | 20:43 | 0.5 | | 21:21 | 0.9 | | 21:40 | 0.7 | | 22:01 | 1.1 | | 22:13 | 0.8 | | 22:30 | 1.0 |
| 08 | 02:48 | 3.7 | 24 | 03:31 | 3.2 | 08 | 03:53 | 3.5 | 24 | 04:20 | 3.1 | 08 | 04:33 | 3.4 | 24 | 04:49 | 3.1 |
| | 08:58 | 0.5 | | 09:39 | 0.9 | | 10:09 | 0.6 | | 10:34 | 1.1 | | 10:53 | 0.7 | | 11:06 | 0.9 |
| | 15:09 | 3.8 | SEX | 15:49 | 3.1 | SÁB | 16:23 | 3.4 | SEG | 16:44 | 2.8 | SEG | 17:05 | 3.1 | QUA | 17:15 | 2.8 |
| | 21:22 | 0.5 | | 21:49 | 1.0 | | 22:23 | 0.9 | | 22:37 | 1.2 | | 22:59 | 1.0 | | 23:11 | 1.1 |
| 09 | 03:28 | 3.6 | 25 | 04:02 | 3.1 | 09 | 04:41 | 3.4 | 25 | 04:59 | 3.0 | 09 | 05:24 | 3.3 | 25 | 05:32 | 3.1 |
| | 09:39 | 0.5 | | 10:11 | 1.0 | | 10:58 | 0.8 | | 11:15 | 1.2 | | 11:45 | 0.9 | | 11:49 | 1.0 |
| | 15:51 | 3.7 | SÁB | 16:21 | 3.0 | DOM | 17:14 | 3.1 | TER | 17:27 | 2.7 | TER | 17:57 | 2.9 | QUI | 18:00 | 2.8 |
| | 22:01 | 0.6 | | 22:19 | 1.1 | | 23:09 | 1.1 | | 23:17 | 1.3 | | 23:50 | 1.1 | | 23:56 | 1.1 |
| 10 | 04:10 | 3.5 | 26 | 04:35 | 3.0 | 10 | 05:35 | 3.2 | 26 | 05:45 | 2.9 | 10 | 06:19 | 3.1 | 26 | 06:19 | 3.0 |
| | 10:21 | 0.6 | | 10:45 | 1.2 | | 11:54 | 1.0 | | 12:04 | 1.3 | | 12:42 | 1.0 | | 12:37 | 1.0 |
| | 16:36 | 3.5 | DOM | 16:56 | 2.8 | SEG | 18:13 | 2.9 | QUA | 18:19 | 2.7 | QUA | 18:54 | 2.7 | SEX | 18:53 | 2.7 |
| | 22:40 | 0.8 | | 22:50 | 1.3 | | | | | | | | | | | | |
| 11 | 04:54 | 3.4 | 27 | 05:12 | 2.9 | 11 | 00:04 | 1.3 | 27 | 00:10 | 1.5 | 11 | 00:48 | 1.3 | 27 | 00:50 | 1.2 |
| | 11:06 | 0.8 | | 11:24 | 1.4 | | 06:38 | 3.0 | | 06:42 | 2.9 | | 07:18 | 2.9 | | 07:14 | 2.9 |
| | 17:24 | 3.2 | SEG | 17:38 | 2.7 | TER | 13:06 | 1.2 | QUI | 13:06 | 1.4 | QUI | 13:43 | 1.2 | SÁB | 13:32 | 1.1 |
| | 23:23 | 1.1 | | 23:28 | 1.5 | | 19:24 | 2.7 | | 19:25 | 2.6 | (| 19:57 | 2.6 |) | 19:54 | 2.7 |
| 12 | 05:45 | 3.2 | 28 | 06:00 | 2.8 | 12 | 01:20 | 1.5 | 28 | 01:21 | 1.5 | 12 | 01:56 | 1.4 | 28 | 01:52 | 1.2 |
| | 11:58 | 1.1 | | 12:16 | 1.5 | | 07:53 | 2.9 | | 07:50 | 2.8 | | 08:22 | 2.8 | | 08:17 | 2.8 |
| | 18:22 | 2.9 | TER | 18:35 | 2.5 | QUA | 14:31 | 1.3 | SEX | 14:18 | 1.3 | SEX | 14:48 | 1.2 | DOM | 14:36 | 1.1 |
| | | | | | | (| 20:45 | 2.6 |) | 20:41 | 2.7 | | 21:05 | 2.6 | | 21:02 | 2.7 |
| 13 | 00:15 | 1.3 | 29 | 00:22 | 1.7 | 13 | 02:50 | 1.5 | 29 | 02:42 | 1.5 | 13 | 03:07 | 1.4 | 29 | 03:04 | 1.2 |
| | 06:49 | 3.0 | | 07:06 | 2.7 | | 09:11 | 2.9 | | 09:02 | 2.9 | | 09:29 | 2.7 | | 09:28 | 2.8 |
| | 13:12 | 1.3 | QUA | 13:37 | 1.6 | QUI | 15:48 | 1.3 | SÁB | 15:30 | 1.2 | SÁB | 15:51 | 1.2 | SEG | 15:46 | 1.0 |
| | 19:39 | 2.7 |) | 20:00 | 2.5 | | 22:02 | 2.7 | | 21:52 | 2.8 | | 22:10 | 2.6 | | 22:10 | 2.7 |
| 14 | 01:35 | 1.6 | 30 | 01:59 | 1.7 | 14 | 04:07 | 1.5 | 30 | 03:54 | 1.3 | 14 | 04:14 | 1.3 | 30 | 04:18 | 1.1 |
| | 08:15 | 2.8 | | 08:33 | 2.7 | | 10:22 | 2.9 | | 10:10 | 3.0 | | 10:32 | 2.6 | | 10:38 | 2.8 |
| | 14:59 | 1.4 | QUI | 15:17 | 1.5 | SEX | 16:49 | 1.2 | DOM | 16:33 | 1.1 | DOM | 16:47 | 1.2 | TER | 16:55 | 1.0 |
| | 21:16 | 2.6 | | 21:36 | 2.6 | | 23:03 | 2.8 | | 22:52 | 2.9 | | 23:06 | 2.6 | | 23:13 | 2.9 |
| 15 | 03:27 | 1.6 | 31 | 03:41 | 1.6 | 15 | 05:05 | 1.3 | 15 | 05:12 | 1.2 | 15 | 05:12 | 1.2 | 31 | 05:28 | 0.9 |
| | 09:46 | 2.8 | | 09:53 | 2.9 | | 11:18 | 2.9 | | 11:26 | 2.6 | | 11:26 | 2.6 | | 11:43 | 2.9 |
| | 16:28 | 1.3 | SEX | 16:26 | 1.4 | SÁB | 17:37 | 1.1 | SEG | 17:36 | 1.1 | SEG | 17:36 | 1.1 | QUA | 17:57 | 0.9 |
| | 22:40 | 2.7 | | 22:43 | 2.8 | | 23:49 | 2.9 | | 23:53 | 2.7 | | | | | | |
| 16 | 04:46 | 1.5 | | | | 16 | 05:52 | 1.2 | 16 | 06:01 | 1.1 | 16 | 06:01 | 1.1 | | | |
| | 10:59 | 3.0 | | | | | 12:04 | 3.0 | | 12:12 | 2.7 | | 12:12 | 2.7 | | | |
| | 17:30 | 1.2 | | | | DOM | 18:16 | 1.0 | | 18:17 | 1.1 | | 18:17 | 1.1 | | | |
| | 23:40 | 2.9 | | | | | | | | | | | | | | | |

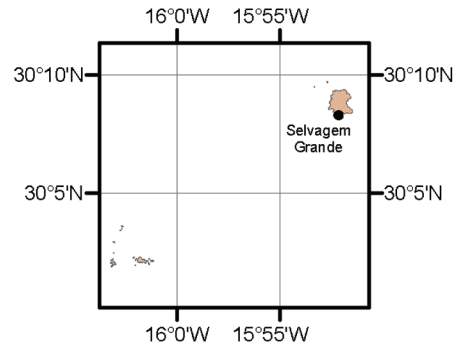
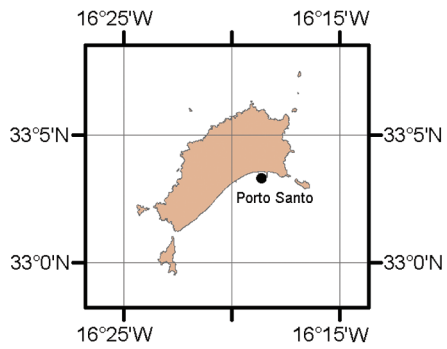
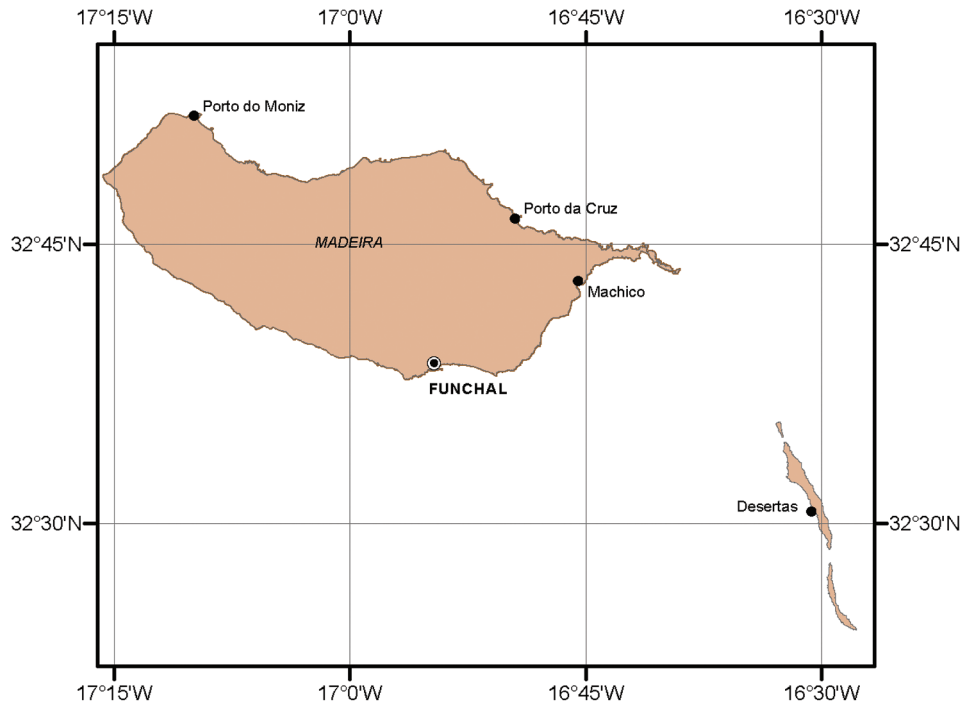
202

**PORTOS
DO
ARQUIPÉLAGO DA MADEIRA**

ARQUIPÉLAGO DA MADEIRA



FUNCHAL



PORTO DO FUNCHAL

NOTAS

1. ANÁLISE HARMÓNICA:

— Efetuada a partir de observações maregráficas de 10 de abril de 2011 a 01 de dezembro de 2011.

2. LOCALIZAÇÃO DO MARÉGRAFO (ATUALMENTE DESATIVADO):

— Próximo do topo E do cais dos Contentores:
Latitude 32° 38,64' N; Longitude 16° 54,78' W – WGS84.

3. ALTURAS DE MARÉ:

— Referidas ao nível do zero hidrográfico.
— Nível médio: 1,40 m.

4. ZERO HIDROGRÁFICO:

— 1,40 m abaixo do nível médio adotado (Funchal, 1913).
— 4,079 m abaixo da marca de contacto BH20/02 incrustada na muralha, próximo do topo leste do cais dos Contentores, junto das escadas.
— 4,723 m abaixo da marca de contacto BH21/02 incrustada no maciço de cimento no fim dos carris dos guindastes, no lado E do cais dos Contentores.
— 4,524 m abaixo da marca de contacto BH22/02 incrustada no muro que circunda os gabinetes da Administração no cais dos Contentores, na entrada para o parque.
— 19,006 m abaixo da marca de nivelamento principal NP Forte de S. Tiago (IGP) localizado no topo do Forte com o mesmo nome, lado direito no final da escada, junto ao Marco Geodésico.

Porto de Funchal

Latitude 32° 38.64' N Longitude 16° 54.78' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JANEIRO | | | | FEVEREIRO | | | | MARÇO | | | | | | | | | | | | | | | |
|-----------|-------|--------|-----------|-----------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-------|-----------|-------|-----|-------|-------|-----|-------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | | | | | | | |
| 01 | 02:29 | 2.3 | 17 | 03:48 | 2.3 | 01 | 03:32 | 2.5 | 17 | 04:21 | 2.1 | 01 | 02:31 | 2.6 | 17 | 03:18 | 2.2 | | | | | | |
| | 08:45 | 0.4 | | 10:04 | 0.4 | | 09:48 | 0.2 | | 10:31 | 0.5 | | 08:45 | 0.1 | | 09:23 | 0.4 | | | | | | |
| | 14:54 | 2.1 | | SEX | 16:11 | | 2.0 | SÁB | | 15:59 | 2.2 | | SEG | 16:40 | | 2.0 | SÁB | 14:56 | 2.4 | SEG | 15:33 | 2.1 | |
| | 20:50 | 0.5 | | 22:04 | 0.5 | | 21:57 | 0.3 | | 22:38 | 0.6 | | 20:56 | 0.1 | | 21:34 | 0.5 | | | | | | |
| 02 | 03:08 | 2.3 | 18 | 04:24 | 2.2 | 02 | 04:13 | 2.4 | 18 | 04:53 | 2.0 | 02 | 03:11 | 2.6 | 18 | 03:47 | 2.1 | | | | | | |
| | 09:25 | 0.4 | | 10:40 | 0.5 | | 10:30 | 0.2 | | 11:02 | 0.6 | | 09:24 | 0.1 | | 09:51 | 0.5 | | | | | | |
| | QUI | 15:36 | | 2.1 | SÁB | | 16:47 | 1.9 | | DOM | 16:41 | | 2.1 | TER | | 17:14 | 1.8 | DOM | 15:35 | 2.4 | TER | 16:03 | 2.0 |
| | 21:30 | 0.5 | | 22:41 | 0.6 | | 22:41 | 0.4 | | 23:13 | 0.7 | | 21:37 | 0.2 | | 22:05 | 0.6 | | | | | | |
| 03 | 03:49 | 2.3 | 19 | 05:01 | 2.1 | 03 | 04:57 | 2.3 | 19 | 05:27 | 1.8 | 03 | 03:52 | 2.5 | 19 | 04:17 | 2.0 | | | | | | |
| | 10:07 | 0.4 | | 11:17 | 0.6 | | 11:14 | 0.4 | | 11:38 | 0.8 | | 10:04 | 0.2 | | 10:21 | 0.6 | | | | | | |
| | SEX | 16:19 | | 2.1 | DOM | | 17:25 | 1.8 | | SEG | 17:28 | | 2.0 | QUA | | 17:54 | 1.7 | SEG | 16:17 | 2.3 | QUA | 16:35 | 1.9 |
| | 22:14 | 0.5 | | 23:19 | 0.7 | | 23:29 | 0.5 | | 23:57 | 0.9 | | 22:20 | 0.3 | | 22:39 | 0.7 | | | | | | |
| 04 | 04:33 | 2.3 | 20 | 05:39 | 1.9 | 04 | 05:47 | 2.1 | 20 | 06:11 | 1.7 | 04 | 04:36 | 2.3 | 20 | 04:50 | 1.8 | | | | | | |
| | 10:53 | 0.4 | | 11:56 | 0.7 | | 12:05 | 0.5 | | 12:24 | 0.9 | | 10:47 | 0.4 | | 10:54 | 0.8 | | | | | | |
| | SÁB | 17:05 | | 2.0 | SEG | | 18:07 | 1.7 | | TER | 18:21 | | 1.9 | QUI | | 17:01 | 2.1 | QUI | 17:12 | 1.8 | | | |
| | 23:01 | 0.6 | | 23:01 | 0.6 | | 23:01 | 0.6 | | 23:01 | 0.6 | | 23:08 | 0.4 | | 23:21 | 0.9 | | | | | | |
| 05 | 05:20 | 2.2 | 21 | 00:03 | 0.8 | 05 | 00:27 | 0.6 | 21 | 01:02 | 1.0 | 05 | 05:25 | 2.1 | 21 | 05:31 | 1.7 | | | | | | |
| | 11:42 | 0.5 | | 06:22 | 1.8 | | 06:45 | 1.9 | | 07:21 | 1.5 | | 11:36 | 0.6 | | 11:36 | 0.9 | | | | | | |
| | DOM | 17:57 | | 1.9 | TER | | 12:41 | 0.8 | | QUA | 13:06 | | 0.7 | QUA | | 17:54 | 2.0 | SEX | 18:03 | 1.7 | | | |
| | 23:55 | 0.6 | | ((| 18:58 | | 1.7 |) | | 19:29 | 1.8 | | 20:20 | 1.6 | | 23:55 | 0.6 | 23:55 | 0.6 | | | | |
| 06 | 06:14 | 2.1 | 22 | 00:58 | 0.9 | 06 | 01:41 | 0.8 | 22 | 02:52 | 1.0 | 06 | 00:06 | 0.6 | 22 | 00:23 | 1.0 | | | | | | |
| | 12:39 | 0.6 | | 07:17 | 1.7 | | 08:02 | 1.8 | | 09:15 | 1.5 | | 06:24 | 1.9 | | 06:38 | 1.5 | | | | | | |
| | SEG | 18:57 | | 1.9 | QUA | | 13:39 | 0.9 | | QUI | 14:24 | | 0.8 | SÁB | | 15:22 | 1.0 | QUI | 12:36 | 0.8 | SÁB | 12:46 | 1.0 |
| |) | 20:05 | | 1.6 | 20:05 | | 1.6 | 20:53 | | 1.8 | 21:59 | | 1.7 | 19:02 | | 1.8 |) | 19:02 | 1.8 | ((| 19:28 | 1.6 | |
| 07 | 00:57 | 0.7 | 23 | 02:13 | 1.0 | 07 | 03:15 | 0.8 | 23 | 04:34 | 0.9 | 07 | 01:26 | 0.8 | 23 | 02:09 | 1.0 | | | | | | |
| | 07:16 | 2.0 | | 08:33 | 1.6 | | 09:36 | 1.7 | | 10:46 | 1.6 | | 07:48 | 1.7 | | 08:39 | 1.5 | | | | | | |
| | TER | 13:44 | | 0.6 | QUI | | 14:52 | 0.9 | | SEX | 15:53 | | 0.8 | DOM | | 16:43 | 0.9 | SEX | 14:03 | 0.9 | DOM | 14:38 | 1.0 |
| | 20:06 | 1.8 | | 21:25 | 1.6 | | 22:19 | 1.8 | | 23:06 | 1.8 | | 20:36 | 1.7 | | 21:15 | 1.7 | | | | | | |
| 08 | 02:10 | 0.8 | 24 | 03:44 | 1.0 | 08 | 04:46 | 0.7 | 24 | 05:34 | 0.8 | 08 | 03:15 | 0.9 | 24 | 03:57 | 0.9 | | | | | | |
| | 08:29 | 1.9 | | 09:58 | 1.6 | | 11:01 | 1.8 | | 11:41 | 1.7 | | 09:38 | 1.6 | | 10:15 | 1.6 | | | | | | |
| | QUA | 14:56 | | 0.7 | SEX | | 16:08 | 0.9 | | SÁB | 17:09 | | 0.8 | SÁB | | 15:48 | 0.9 | SEG | 16:09 | 0.9 | | | |
| | 21:20 | 1.9 | | 22:36 | 1.7 | | 23:27 | 2.0 | | 23:53 | 2.0 | | 22:12 | 1.8 | | 22:29 | 1.8 | | | | | | |
| 09 | 03:29 | 0.7 | 25 | 05:00 | 0.9 | 09 | 05:53 | 0.6 | 25 | 06:16 | 0.6 | 09 | 04:49 | 0.8 | 25 | 04:59 | 0.7 | | | | | | |
| | 09:47 | 1.9 | | 11:07 | 1.7 | | 12:03 | 1.8 | | 12:24 | 1.9 | | 11:04 | 1.7 | | 11:11 | 1.8 | | | | | | |
| | QUI | 16:07 | | 0.7 | SÁB | | 17:09 | 0.8 | | DOM | 18:05 | | 0.7 | TER | | 17:06 | 0.8 | TER | 17:07 | 0.8 | | | |
| | 22:29 | 1.9 | | 23:31 | 1.9 | | 23:31 | 1.9 | | 23:31 | 1.9 | | 23:20 | 1.9 | | 23:21 | 2.0 | | | | | | |
| 10 | 04:44 | 0.7 | 26 | 05:54 | 0.8 | 10 | 00:20 | 2.1 | 26 | 00:34 | 2.2 | 10 | 05:49 | 0.6 | 26 | 05:44 | 0.5 | | | | | | |
| | 10:58 | 1.9 | | 11:59 | 1.8 | | 06:43 | 0.5 | | 06:54 | 0.4 | | 11:58 | 1.8 | | 11:54 | 2.0 | | | | | | |
| | SEX | 17:11 | | 0.6 | DOM | | 17:58 | 0.7 | | SEG | 12:50 | | 1.9 | QUA | | 13:02 | 2.1 | SEG | 17:57 | 0.7 | QUA | 17:52 | 0.6 |
| | 23:30 | 2.0 | | 18:49 | 0.6 | | 18:49 | 0.6 | | 19:00 | 0.4 | | 19:00 | 0.4 | | | | | | | | | |
| 11 | 05:48 | 0.6 | 27 | 00:16 | 2.0 | 11 | 01:03 | 2.2 | 27 | 01:13 | 2.4 | 11 | 00:08 | 2.1 | 27 | 00:04 | 2.2 | | | | | | |
| | 11:59 | 2.0 | | 06:37 | 0.6 | | 07:23 | 0.4 | | 07:31 | 0.2 | | 06:32 | 0.5 | | 06:23 | 0.3 | | | | | | |
| | SÁB | 18:06 | | 0.6 | SEG | | 12:43 | 1.9 | | TER | 13:29 | | 2.0 | QUI | | 13:40 | 2.2 | TER | 12:37 | 1.9 | QUI | 12:34 | 2.2 |
| | | | | 18:40 | 0.6 | | 19:26 | 0.5 | | 19:38 | 0.3 | | 18:35 | 0.6 | | 18:33 | 0.4 | | | | | | |
| 12 | 00:23 | 2.2 | 28 | 00:57 | 2.1 | 12 | 01:41 | 2.3 | 28 | 01:52 | 2.5 | 12 | 00:47 | 2.2 | 28 | 00:45 | 2.4 | | | | | | |
| | 06:42 | 0.5 | | 07:16 | 0.5 | | 07:59 | 0.3 | | 08:08 | 0.1 | | 07:05 | 0.4 | | 07:02 | 0.2 | | | | | | |
| | DOM | 12:51 | | 2.0 | TER | | 13:23 | 2.0 | | QUA | 14:03 | | 2.1 | QUA | | 13:10 | 2.0 | SEX | 13:12 | 2.3 | | | |
| | 18:53 | 0.5 | | 19:19 | 0.5 | | 20:00 | 0.4 | | 20:16 | 0.2 | | 19:08 | 0.5 | | 19:13 | 0.2 | | | | | | |
| 13 | 01:10 | 2.3 | 29 | 01:35 | 2.3 | 13 | 02:16 | 2.3 | 29 | 01:52 | 2.5 | 13 | 01:20 | 2.3 | 29 | 01:26 | 2.5 | | | | | | |
| | 07:29 | 0.4 | | 07:53 | 0.3 | | 08:31 | 0.3 | | 07:35 | 0.4 | | 07:35 | 0.4 | | 07:40 | 0.1 | | | | | | |
| | SEG | 13:37 | | 2.1 | QUA | | 14:01 | 2.1 | | QUI | 14:36 | | 2.1 | QUI | | 13:39 | 2.1 | SÁB | 13:51 | 2.4 | | | |
| | ○ | 19:36 | | 0.5 | ● | | 19:58 | 0.4 | | 20:32 | 0.4 | | 19:38 | 0.4 | | 19:38 | 0.4 | ● | 19:54 | 0.1 | | | |
| 14 | 01:53 | 2.3 | 30 | 02:14 | 2.4 | 14 | 02:48 | 2.3 | 30 | 01:51 | 2.3 | 14 | 01:51 | 2.3 | 30 | 02:07 | 2.6 | | | | | | |
| | 08:12 | 0.3 | | 08:30 | 0.2 | | 09:01 | 0.3 | | 08:02 | 0.3 | | 08:20 | 0.1 | | | | | | | | | |
| | TER | 14:19 | | 2.1 | QUI | | 14:40 | 2.2 | | SEX | 15:07 | | 2.1 | SEX | | 14:08 | 2.2 | DOM | 14:31 | 2.5 | | | |
| | 20:15 | 0.4 | | 20:36 | 0.3 | | 21:03 | 0.4 | | 21:03 | 0.4 | | 20:07 | 0.4 | | 20:35 | 0.1 | | | | | | |
| 15 | 02:33 | 2.3 | 31 | 02:52 | 2.5 | 15 | 03:20 | 2.3 | 31 | 02:20 | 2.3 | 15 | 02:20 | 2.3 | 31 | 02:49 | 2.6 | | | | | | |
| | 08:51 | 0.3 | | 09:09 | 0.2 | | 09:31 | 0.3 | | 08:29 | 0.3 | | 08:59 | 0.1 | | | | | | | | | |
| | QUA | 14:57 | | 2.1 | SEX | | 15:19 | 2.2 | | SÁB | 15:37 | | 2.1 | SÁB | | 14:36 | 2.2 | SEG | 15:12 | 2.4 | | | |
| | 20:52 | 0.4 | | 21:16 | 0.3 | | 21:34 | 0.4 | | 21:34 | 0.4 | | 20:36 | 0.4 | | 21:18 | 0.2 | | | | | | |
| 16 | 03:11 | 2.3 | 16 | 03:51 | 2.2 | 16 | 03:51 | 2.2 | 16 | 02:49 | 2.3 | 16 | 02:49 | 2.3 | 16 | 02:49 | 2.6 | | | | | | |
| | 09:28 | 0.3 | | 10:00 | 0.4 | | 10:00 | 0.4 | | 08:56 | 0.3 | | 08:56 | 0.3 | | 08:59 | 0.1 | | | | | | |
| | QUI | 15:34 | | 2.1 | DOM | | 16:08 | 2.0 | | 15:04 | 2.2 | | 15:04 | 2.2 | | 15:12 | 2.4 | | | | | | |
| | 21:29 | 0.5 | | 22:05 | 0.5 | | 22:05 | 0.5 | | 21:05 | 0.4 | | 21:05 | 0.4 | | | | | | | | | |

Porto de Funchal

Latitude 32° 38.64' N Longitude 16° 54.78' W

Horas do Fuso: 0 (TU)

Ano: 2025

| ABRIL | | | MAIO | | | JUNHO | | | | | | | | | | | |
|-----------|----------------------------------|--------------------------|-----------|----------------------------------|--------------------------|-----------|----------------------------------|--------------------------|-----------|----------------------------------|--------------------------|-----------|----------------------------------|--------------------------|-----------|----------------------------------|--------------------------|
| Hora | Altura | | Hora | Altura | | Hora | Altura | | Hora | Altura | | | | | | | |
| 01 | 03:32 09:41 15:55 22:03 | 2.4 0.2 2.3 0.3 | 17 | 03:53 09:52 16:10 22:20 | 1.9 0.7 2.0 0.7 | 01 | 04:06 10:07 16:27 22:46 | 2.2 0.5 2.2 0.5 | 17 | 04:23 10:17 16:41 23:01 | 1.8 0.8 2.0 0.8 | 01 | 05:46 11:40 18:05 | 1.8 0.8 2.0 | 17 | 05:56 11:50 18:10 | 1.9 0.8 2.1 |
| 02 | 04:18 10:24 16:41 22:54 | 2.3 0.4 2.2 0.5 | 18 | 04:30 10:28 16:50 23:06 | 1.8 0.8 1.9 0.8 | 02 | 05:00 10:59 17:23 23:50 | 2.0 0.7 2.1 0.6 | 18 | 05:14 11:07 17:33 | 1.8 0.8 1.9 | 02 | 00:38 06:50 12:44 19:08 | 0.7 1.8 0.9 1.9 | 18 | 00:37 06:56 12:52 19:11 | 0.7 1.9 0.8 2.0 |
| 03 | 05:10 11:14 17:35 23:56 | 2.0 0.6 2.0 0.7 | 19 | 05:16 11:15 17:43 | 1.7 0.9 1.8 | 03 | 06:05 12:02 18:30 | 1.8 0.9 1.9 | 19 | 00:00 06:17 12:11 18:36 | 0.8 1.7 0.9 1.9 | 03 | 01:44 07:58 13:53 20:14 | 0.8 1.7 1.0 1.9 | 19 | 01:40 08:01 14:00 20:17 | 0.7 1.9 0.8 2.0 |
| 04 | 06:13 12:17 18:46 | 1.8 0.8 1.9 | 20 | 00:09 06:27 12:25 18:59 | 0.9 1.6 1.0 1.7 | 04 | 01:09 07:26 13:24 19:51 | 0.8 1.7 1.0 1.9 | 20 | 01:09 07:32 13:26 19:48 | 0.8 1.7 0.9 1.9 | 04 | 02:48 09:03 15:02 21:17 | 0.8 1.7 1.0 1.9 | 20 | 02:45 09:07 15:10 21:25 | 0.7 1.9 0.8 2.1 |
| 05 | 01:21 07:43 13:48 20:20 | 0.8 1.6 1.0 1.8 | 21 | 01:39 08:06 14:01 20:29 | 0.9 1.6 1.0 1.8 | 05 | 02:35 08:54 14:52 21:10 | 0.8 1.7 1.0 1.9 | 21 | 02:22 08:45 14:41 20:58 | 0.8 1.8 0.9 2.0 | 05 | 03:45 09:59 16:01 22:12 | 0.8 1.8 0.9 1.9 | 21 | 03:49 10:10 16:16 22:30 | 0.6 2.0 0.7 2.1 |
| 06 | 03:07 09:30 15:32 21:51 | 0.8 1.6 1.0 1.8 | 22 | 03:09 09:32 15:26 21:44 | 0.9 1.7 0.9 1.9 | 06 | 03:49 10:04 16:02 22:14 | 0.8 1.7 0.9 1.9 | 22 | 03:28 09:48 15:47 22:01 | 0.7 1.9 0.7 2.1 | 06 | 04:32 10:46 16:52 23:00 | 0.8 1.8 0.9 1.9 | 22 | 04:48 11:07 17:18 23:30 | 0.6 2.1 0.6 2.2 |
| 07 | 04:31 10:46 16:44 22:56 | 0.8 1.7 0.9 1.9 | 23 | 04:14 10:31 16:28 22:41 | 0.7 1.9 0.7 2.1 | 07 | 04:43 10:54 16:53 23:02 | 0.7 1.8 0.8 2.0 | 23 | 04:25 10:42 16:44 22:57 | 0.5 2.1 0.6 2.2 | 07 | 05:12 11:26 17:35 23:42 | 0.7 1.9 0.8 1.9 | 23 | 05:43 12:00 18:15 | 0.5 2.3 0.5 |
| 08 | 05:25 11:35 17:33 23:42 | 0.7 1.8 0.8 2.0 | 24 | 05:05 11:19 17:18 23:30 | 0.5 2.0 0.6 2.2 | 08 | 05:23 11:32 17:34 23:42 | 0.7 1.9 0.7 2.0 | 24 | 05:16 11:31 17:37 23:49 | 0.4 2.2 0.5 2.3 | 08 | 05:49 12:03 18:15 | 0.7 2.0 0.7 | 24 | 00:26 06:34 12:51 19:08 | 2.2 0.5 2.3 0.4 |
| 09 | 06:04 12:10 18:09 | 0.6 1.9 0.6 | 25 | 05:49 12:02 18:04 | 0.3 2.2 0.4 | 09 | 05:56 12:04 18:09 | 0.6 2.0 0.7 | 25 | 06:04 12:18 18:27 | 0.3 2.3 0.3 | 09 | 00:21 06:24 12:40 18:53 | 2.0 0.7 2.1 0.7 | 25 | 01:19 07:22 13:40 19:58 | 2.2 0.4 2.4 0.3 |
| 10 | 00:19 06:35 12:40 18:41 | 2.1 0.5 2.0 0.6 | 26 | 00:16 06:31 12:44 18:48 | 2.4 0.2 2.4 0.2 | 10 | 00:16 06:26 12:35 18:41 | 2.1 0.6 2.1 0.6 | 26 | 00:39 06:50 13:04 19:15 | 2.4 0.3 2.4 0.3 | 10 | 00:59 06:59 13:16 19:30 | 2.0 0.6 2.2 0.6 | 26 | 02:08 08:08 14:27 20:46 | 2.2 0.4 2.4 0.3 |
| 11 | 00:51 07:03 13:08 19:10 | 2.2 0.4 2.1 0.5 | 27 | 01:00 07:13 13:26 19:32 | 2.5 0.1 2.5 0.2 | 11 | 00:49 06:55 13:06 19:13 | 2.1 0.5 2.1 0.5 | 27 | 01:28 07:35 13:51 20:04 | 2.4 0.3 2.4 0.2 | 11 | 01:37 07:34 13:53 20:08 | 2.0 0.6 2.2 0.6 | 27 | 02:56 08:53 15:13 21:33 | 2.2 0.5 2.4 0.4 |
| 12 | 01:21 07:29 13:36 19:39 | 2.2 0.4 2.2 0.4 | 28 | 01:45 07:55 14:08 20:17 | 2.5 0.1 2.5 0.1 | 12 | 01:22 07:24 13:37 19:46 | 2.1 0.5 2.2 0.5 | 28 | 02:17 08:20 14:37 20:54 | 2.3 0.3 2.4 0.3 | 12 | 02:15 08:11 14:30 20:45 | 2.0 0.6 2.2 0.6 | 28 | 03:43 09:38 15:59 22:20 | 2.1 0.5 2.4 0.5 |
| 13 | 01:50 07:56 14:05 20:09 | 2.2 0.4 2.2 0.4 | 29 | 02:30 08:37 14:52 21:03 | 2.5 0.2 2.4 0.2 | 13 | 01:54 07:55 14:10 20:20 | 2.1 0.5 2.2 0.5 | 29 | 03:06 09:06 15:25 21:44 | 2.2 0.4 2.4 0.4 | 13 | 02:53 08:48 15:08 21:25 | 2.0 0.6 2.2 0.6 | 29 | 04:28 10:22 16:44 23:06 | 2.0 0.6 2.3 0.6 |
| 14 | 02:19 08:23 14:34 20:39 | 2.2 0.4 2.2 0.5 | 30 | 03:17 09:21 15:38 21:52 | 2.3 0.3 2.4 0.3 | 14 | 02:28 08:27 14:44 20:55 | 2.1 0.5 2.2 0.6 | 30 | 03:57 09:53 16:15 22:38 | 2.1 0.6 2.3 0.5 | 14 | 03:34 09:27 15:48 22:06 | 2.0 0.6 2.2 0.6 | 30 | 05:14 11:08 17:30 23:53 | 2.0 0.7 2.1 0.7 |
| 15 | 02:49 08:51 15:04 21:10 | 2.1 0.5 2.2 0.5 | | | | 15 | 03:03 09:00 15:19 21:32 | 2.0 0.6 2.1 0.6 | 31 | 04:49 10:44 17:08 23:35 | 2.0 0.7 2.2 0.6 | 15 | 04:16 10:09 16:30 22:51 | 1.9 0.7 2.2 0.6 | | | |
| 16 | 03:20 09:21 15:36 21:43 | 2.1 0.5 2.1 0.6 | | | | 16 | 03:41 09:36 15:57 22:13 | 1.9 0.7 2.1 0.7 | | | | 16 | 05:03 10:57 17:17 23:41 | 1.9 0.7 2.1 0.6 | | | |

Porto de Funchal

Latitude 32° 38.64' N Longitude 16° 54.78' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JULHO | | | | AGOSTO | | | | SETEMBRO | | | | | | | | | |
|-----------|--|--------------------------|-----------|--|--------------------------|-----------|--|--------------------------|-----------|--|--------------------------|-----------|--|--------------------------|-----------|--|--------------------------|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 06:02 11:56 TER 18:18 | 1.9 0.8 2.0 | 17 | 00:04 06:21 QUI 12:21 18:38 | 0.6 2.0 0.7 2.1 | 01 | 00:25 06:40 SEX 12:42) 19:00 | 0.9 1.8 1.0 1.8 | 17 | 01:40 08:08 DOM 14:29 20:50 | 0.9 1.9 0.9 1.9 | 01 | 01:22 08:05 SEG 14:42 21:05 | 1.2 1.7 1.2 1.6 | 17 | 04:31 10:47 QUA 17:17 23:28 | 1.0 2.1 0.8 2.0 |
| 02 | 00:43 06:54 QUA 12:49) 19:10 | 0.8 1.8 0.9 1.9 | 18 | 01:01 07:22 SEX 13:26 (19:44 | 0.7 1.9 0.8 2.0 | 02 | 01:18 07:42 SÁB 13:52 20:11 | 1.0 1.8 1.1 1.7 | 18 | 03:08 09:36 SEG 16:03 22:21 | 1.0 2.0 0.9 1.9 | 02 | 03:08 09:44 TER 16:24 22:34 | 1.2 1.8 1.1 1.7 | 18 | 05:28 11:40 QUI 18:04 | 0.9 2.2 0.6 |
| 03 | 01:36 07:51 QUI 13:51 20:09 | 0.9 1.7 1.0 1.8 | 19 | 02:08 08:33 SÁB 14:42 21:00 | 0.8 1.9 0.8 2.0 | 03 | 02:27 09:00 DOM 15:22 21:37 | 1.1 1.7 1.1 1.7 | 19 | 04:31 10:52 TER 17:19 23:31 | 0.9 2.1 0.8 2.0 | 03 | 04:30 10:51 QUA 17:21 23:28 | 1.1 1.9 0.9 1.9 | 19 | 00:12 06:10 SEX 12:22 18:41 | 2.1 0.7 2.4 0.5 |
| 04 | 02:34 08:53 SEX 14:59 21:14 | 0.9 1.7 1.0 1.8 | 20 | 03:21 09:46 DOM 16:01 22:17 | 0.8 2.0 0.8 2.0 | 04 | 03:46 10:16 SEG 16:44 22:52 | 1.1 1.8 1.0 1.7 | 20 | 05:34 11:50 QUA 18:14 | 0.8 2.2 0.6 | 04 | 05:22 11:37 QUI 18:01 | 0.9 2.1 0.8 | 20 | 00:47 06:46 SÁB 12:58 19:13 | 2.2 0.6 2.4 0.5 |
| 05 | 03:33 09:55 SÁB 16:07 22:17 | 0.9 1.8 1.0 1.8 | 21 | 04:32 10:54 SEG 17:13 23:26 | 0.7 2.1 0.7 2.0 | 05 | 04:53 11:16 TER 17:42 23:46 | 1.0 1.9 0.9 1.8 | 21 | 00:23 06:23 QUI 12:38 18:59 | 2.1 0.7 2.3 0.5 | 05 | 00:07 06:03 SEX 12:16 18:36 | 2.0 0.8 2.3 0.6 | 21 | 01:18 07:18 DOM 13:30 ● 19:42 | 2.3 0.6 2.5 0.5 |
| 06 | 04:28 10:49 DOM 17:06 23:12 | 0.9 1.9 0.9 1.8 | 22 | 05:34 11:53 TER 18:13 | 0.7 2.2 0.6 | 06 | 05:43 12:02 QUA 18:25 | 0.9 2.1 0.8 | 22 | 01:06 07:04 SEX 13:19 19:37 | 2.2 0.6 2.4 0.4 | 06 | 00:43 06:40 SÁB 12:53 19:10 | 2.2 0.6 2.4 0.4 | 22 | 01:48 07:48 SEG 14:01 20:10 | 2.3 0.5 2.5 0.5 |
| 07 | 05:17 11:37 SEG 17:56 | 0.8 2.0 0.8 | 23 | 00:24 06:27 QUA 12:45 19:05 | 2.1 0.6 2.3 0.5 | 07 | 00:30 06:25 QUI 12:42 19:02 | 1.9 0.8 2.2 0.6 | 23 | 01:43 07:41 SÁB 13:56 ● 20:11 | 2.2 0.5 2.5 0.4 | 07 | 01:18 07:16 DOM 13:30 ○ 19:44 | 2.3 0.5 2.6 0.3 | 23 | 02:17 08:18 TER 14:31 20:38 | 2.4 0.5 2.4 0.5 |
| 08 | 00:01 06:01 TER 12:20 18:39 | 1.9 0.8 2.1 0.7 | 24 | 01:14 07:14 QUI 13:32 ● 19:51 | 2.2 0.5 2.4 0.4 | 08 | 01:08 07:04 SEX 13:20 19:37 | 2.1 0.6 2.3 0.5 | 24 | 02:17 08:15 DOM 14:30 20:44 | 2.3 0.5 2.5 0.4 | 08 | 01:54 07:53 SEG 14:07 20:20 | 2.4 0.4 2.6 0.3 | 24 | 02:46 08:48 QUA 15:01 21:06 | 2.3 0.6 2.4 0.6 |
| 09 | 00:44 06:41 QUA 13:00 19:19 | 1.9 0.7 2.1 0.7 | 25 | 01:59 07:57 SEX 14:15 20:33 | 2.2 0.5 2.5 0.4 | 09 | 01:45 07:40 SÁB 13:56 ○ 20:12 | 2.2 0.5 2.4 0.4 | 25 | 02:50 08:47 SEG 15:04 21:15 | 2.3 0.5 2.5 0.5 | 09 | 02:31 08:31 TER 14:45 20:57 | 2.5 0.3 2.7 0.3 | 25 | 03:16 09:19 QUI 15:31 21:34 | 2.3 0.6 2.2 0.7 |
| 10 | 01:24 07:20 QUI 13:39 ○ 19:56 | 2.0 0.6 2.2 0.6 | 26 | 02:41 08:37 SÁB 14:55 21:13 | 2.2 0.5 2.5 0.4 | 10 | 02:21 08:17 DOM 14:33 20:48 | 2.3 0.5 2.5 0.4 | 26 | 03:21 09:19 TER 15:36 21:45 | 2.3 0.5 2.4 0.5 | 10 | 03:09 09:10 QUA 15:25 21:36 | 2.5 0.3 2.6 0.3 | 26 | 03:46 09:51 SEX 16:02 22:04 | 2.2 0.7 2.1 0.8 |
| 11 | 02:03 07:58 SEX 14:16 20:33 | 2.0 0.6 2.3 0.5 | 27 | 03:20 09:15 DOM 15:34 21:51 | 2.2 0.5 2.4 0.4 | 11 | 02:58 08:54 SEG 15:10 21:25 | 2.3 0.4 2.5 0.3 | 27 | 03:53 09:52 QUA 16:08 22:16 | 2.2 0.6 2.3 0.6 | 11 | 03:49 09:53 QUI 16:08 22:18 | 2.4 0.4 2.5 0.5 | 27 | 04:19 10:26 SÁB 16:37 22:38 | 2.1 0.9 1.9 0.9 |
| 12 | 02:41 08:36 SÁB 14:54 21:11 | 2.1 0.6 2.3 0.5 | 28 | 03:57 09:52 SEG 16:12 22:27 | 2.2 0.6 2.3 0.5 | 12 | 03:35 09:33 TER 15:49 22:04 | 2.3 0.4 2.5 0.4 | 28 | 04:25 10:25 QUI 16:40 22:48 | 2.1 0.7 2.1 0.8 | 12 | 04:33 10:40 SEX 16:56 23:05 | 2.3 0.6 2.3 0.7 | 28 | 04:58 11:09 DOM 17:19 23:21 | 2.0 1.0 1.8 1.1 |
| 13 | 03:20 09:14 DOM 15:32 21:49 | 2.1 0.5 2.4 0.5 | 29 | 04:34 10:29 TER 16:49 23:04 | 2.1 0.7 2.2 0.6 | 13 | 04:16 10:15 QUA 16:31 22:46 | 2.3 0.5 2.4 0.5 | 29 | 05:00 11:01 SEX 17:16 23:23 | 2.0 0.9 2.0 0.9 | 13 | 05:23 11:35 SÁB 17:53 | 2.2 0.7 2.1 | 29 | 05:50 12:12 SEG 18:30) | 1.8 1.1 1.7 |
| 14 | 04:00 09:55 SEG 16:12 22:30 | 2.1 0.6 2.3 0.5 | 30 | 05:12 11:08 QUA 17:27 23:42 | 2.0 0.8 2.1 0.8 | 14 | 04:59 11:00 QUI 17:17 23:33 | 2.2 0.6 2.3 0.6 | 30 | 05:40 11:46 SÁB 18:00 | 1.9 1.0 1.8 | 14 | 00:03 06:27 DOM 12:50 (19:11 | 0.9 2.0 0.9 1.9 | 30 | 00:31 07:16 TER 14:02 20:32 | 1.2 1.8 1.2 1.6 |
| 15 | 04:42 10:38 TER 16:55 23:15 | 2.1 0.6 2.3 0.5 | 31 | 05:52 11:50 QUI 18:09 | 1.9 0.9 1.9 | 15 | 05:49 11:54 SEX 18:11 | 2.1 0.7 2.1 | 31 | 00:09 06:36 DOM 12:52) 19:11 | 1.1 1.8 1.1 1.7 | 15 | 01:23 07:55 SEG 14:31 20:56 | 1.0 1.9 1.0 1.8 | | | |
| 16 | 05:28 11:26 QUA 17:43 | 2.1 0.7 2.2 | | | | 16 | 00:28 06:50 SÁB 13:01 (19:20 | 0.8 2.0 0.8 2.0 | | | | 16 | 03:07 09:33 TER 16:10 22:28 | 1.1 2.0 0.9 1.9 | | | |

Porto de Funchal

Latitude 32° 38.64' N Longitude 16° 54.78' W

Horas do Fuso: 0 (TU)

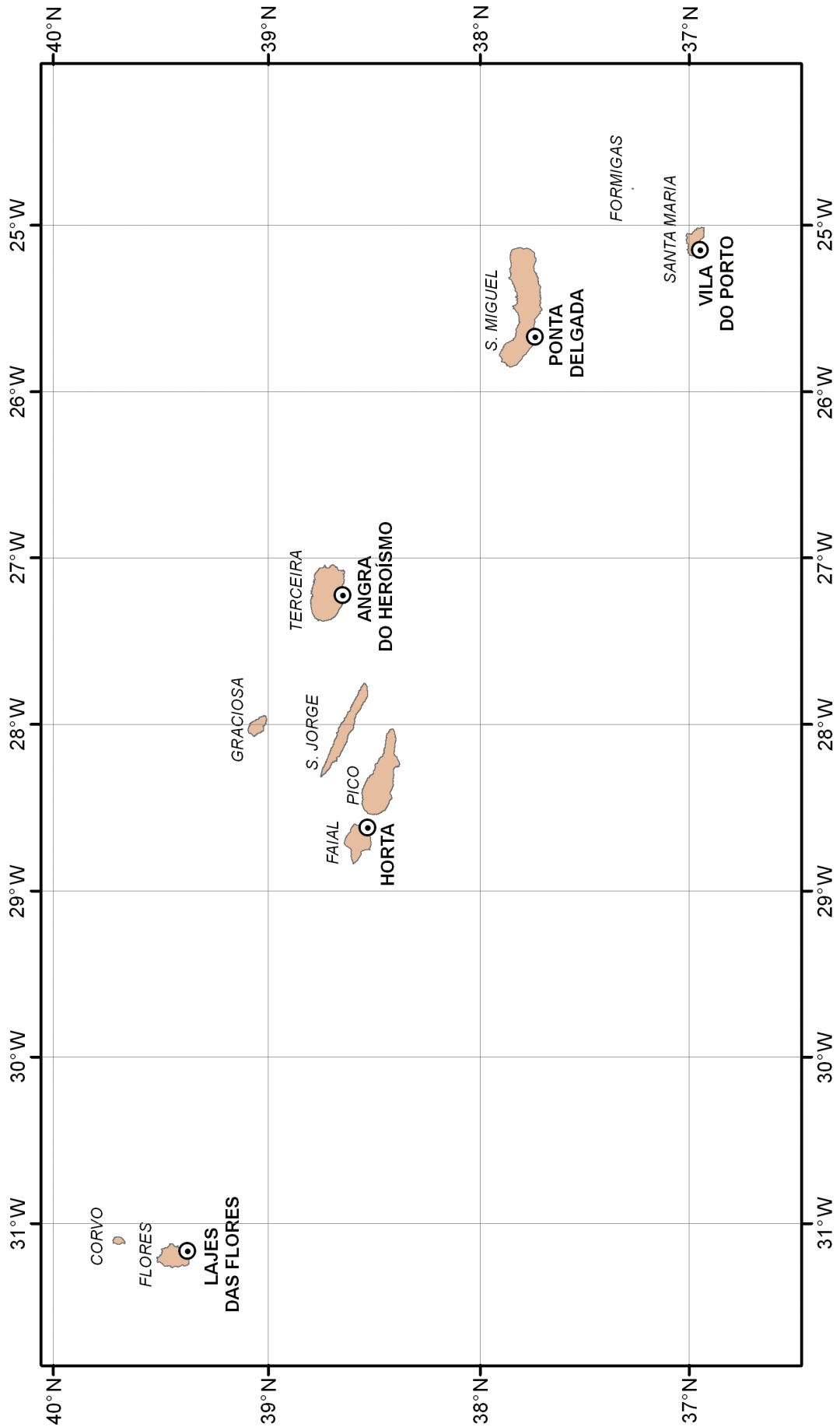
Ano: 2025

| OUTUBRO | | | | | NOVEMBRO | | | | | DEZEMBRO | | | | | | | |
|-----------|-------|--------|-----------|--------|----------|-----------|-------|--------|-----------|----------|------|-----------|-------|--------|-----------|-------|-----|
| | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | |
| 01 | 02:26 | 1.2 | 17 | 05:07 | 0.9 | 01 | 04:06 | 0.9 | 17 | 05:54 | 0.7 | 01 | 04:17 | 0.7 | 17 | 06:08 | 0.7 |
| | 09:02 | 1.8 | | 11:17 | 2.2 | | 10:18 | 2.1 | | 12:01 | 2.1 | | 10:29 | 2.1 | | 12:13 | 1.9 |
| | 15:47 | 1.1 | SEX | 17:40 | 0.7 | SÁB | 16:42 | 0.7 | SEG | 18:11 | 0.6 | SEG | 16:49 | 0.5 | QUA | 18:15 | 0.7 |
| | 22:04 | 1.7 | | 23:48 | 2.1 | | 22:57 | 2.1 | | | | | 23:06 | 2.2 | | | |
| 02 | 03:55 | 1.1 | 18 | 05:48 | 0.8 | 02 | 04:55 | 0.7 | 18 | 00:20 | 2.1 | 02 | 05:11 | 0.6 | 18 | 00:31 | 2.1 |
| | 10:13 | 1.9 | | 11:57 | 2.3 | | 11:06 | 2.3 | | 06:28 | 0.7 | | 11:22 | 2.3 | | 06:46 | 0.7 |
| | 16:44 | 0.9 | SÁB | 18:14 | 0.6 | DOM | 17:25 | 0.5 | TER | 12:35 | 2.1 | TER | 17:38 | 0.4 | QUI | 12:51 | 2.0 |
| | 22:56 | 1.9 | | | | | 23:38 | 2.3 | | 18:40 | 0.6 | | 23:53 | 2.3 | | 18:50 | 0.6 |
| 03 | 04:50 | 0.9 | 19 | 00:20 | 2.2 | 03 | 05:40 | 0.6 | 19 | 00:51 | 2.2 | 03 | 06:02 | 0.4 | 19 | 01:07 | 2.1 |
| | 11:02 | 2.1 | | 06:22 | 0.7 | | 11:50 | 2.4 | | 07:00 | 0.6 | | 12:13 | 2.3 | | 07:22 | 0.6 |
| | 17:25 | 0.7 | DOM | 12:31 | 2.3 | SEG | 18:06 | 0.4 | QUA | 13:07 | 2.2 | QUA | 18:25 | 0.3 | SEX | 13:28 | 2.0 |
| | 23:36 | 2.1 | | 18:43 | 0.6 | | | | | 19:10 | 0.6 | | | | | 19:24 | 0.6 |
| 04 | 05:32 | 0.8 | 20 | 00:50 | 2.3 | 04 | 00:19 | 2.4 | 20 | 01:22 | 2.2 | 04 | 00:40 | 2.4 | 20 | 01:42 | 2.2 |
| | 11:43 | 2.3 | | 06:52 | 0.6 | | 06:23 | 0.4 | | 07:33 | 0.6 | | 06:51 | 0.3 | | 07:58 | 0.6 |
| | 18:02 | 0.5 | SEG | 13:02 | 2.4 | TER | 12:34 | 2.5 | QUI | 13:40 | 2.1 | QUI | 13:03 | 2.4 | SÁB | 14:04 | 2.0 |
| | | | | 19:11 | 0.5 | | 18:47 | 0.3 | ● | 19:40 | 0.6 | ○ | 19:10 | 0.3 | ● | 19:59 | 0.6 |
| 05 | 00:12 | 2.3 | 21 | 01:18 | 2.3 | 05 | 01:00 | 2.5 | 21 | 01:55 | 2.3 | 05 | 01:26 | 2.5 | 21 | 02:18 | 2.2 |
| | 06:11 | 0.6 | | 07:22 | 0.6 | | 07:06 | 0.3 | | 08:06 | 0.6 | | 07:40 | 0.2 | | 08:34 | 0.5 |
| | 12:22 | 2.5 | TER | 13:32 | 2.3 | QUA | 13:18 | 2.6 | SEX | 14:14 | 2.1 | SEX | 13:52 | 2.4 | DOM | 14:41 | 2.0 |
| | 18:38 | 0.4 | ● | 19:37 | 0.5 | ○ | 19:28 | 0.3 | | 20:11 | 0.6 | | 19:56 | 0.3 | | 20:35 | 0.6 |
| 06 | 00:48 | 2.4 | 22 | 01:47 | 2.3 | 06 | 01:42 | 2.6 | 22 | 02:29 | 2.2 | 06 | 02:13 | 2.5 | 22 | 02:54 | 2.2 |
| | 06:49 | 0.4 | | 07:52 | 0.5 | | 07:50 | 0.2 | | 08:41 | 0.6 | | 08:29 | 0.2 | | 09:10 | 0.5 |
| | 13:01 | 2.6 | QUA | 14:02 | 2.3 | QUI | 14:03 | 2.6 | SÁB | 14:49 | 2.0 | SÁB | 14:42 | 2.3 | SEG | 15:18 | 2.0 |
| | 19:15 | 0.3 | | 20:05 | 0.5 | | 20:10 | 0.3 | | 20:44 | 0.6 | | 20:42 | 0.4 | | 21:11 | 0.6 |
| 07 | 01:26 | 2.5 | 23 | 02:16 | 2.3 | 07 | 02:25 | 2.6 | 23 | 03:04 | 2.2 | 07 | 03:01 | 2.5 | 23 | 03:31 | 2.2 |
| | 07:28 | 0.3 | | 08:22 | 0.6 | | 08:37 | 0.3 | | 09:17 | 0.7 | | 09:20 | 0.3 | | 09:48 | 0.6 |
| | 13:41 | 2.7 | QUI | 14:32 | 2.2 | SEX | 14:50 | 2.5 | DOM | 15:26 | 2.0 | DOM | 15:32 | 2.2 | TER | 15:57 | 1.9 |
| | 19:52 | 0.2 | | 20:33 | 0.6 | | 20:54 | 0.4 | | 21:20 | 0.7 | | 21:30 | 0.5 | | 21:49 | 0.6 |
| 08 | 02:04 | 2.6 | 24 | 02:47 | 2.3 | 08 | 03:11 | 2.5 | 24 | 03:41 | 2.1 | 08 | 03:51 | 2.4 | 24 | 04:09 | 2.2 |
| | 08:08 | 0.3 | | 08:54 | 0.6 | | 09:25 | 0.4 | | 09:57 | 0.7 | | 10:12 | 0.4 | | 10:27 | 0.6 |
| | 14:22 | 2.7 | SEX | 15:04 | 2.2 | SÁB | 15:39 | 2.3 | SEG | 16:06 | 1.9 | SEG | 16:24 | 2.1 | QUA | 16:38 | 1.9 |
| | 20:31 | 0.3 | | 21:03 | 0.7 | | 21:40 | 0.5 | | 21:58 | 0.8 | | 22:19 | 0.6 | | 22:30 | 0.7 |
| 09 | 02:44 | 2.6 | 25 | 03:19 | 2.2 | 09 | 04:00 | 2.4 | 25 | 04:22 | 2.1 | 09 | 04:42 | 2.3 | 25 | 04:50 | 2.1 |
| | 08:50 | 0.3 | | 09:28 | 0.7 | | 10:19 | 0.5 | | 10:41 | 0.8 | | 11:07 | 0.5 | | 11:11 | 0.6 |
| | 15:04 | 2.6 | SÁB | 15:37 | 2.0 | DOM | 16:33 | 2.1 | TER | 16:52 | 1.8 | TER | 17:18 | 2.0 | QUI | 17:23 | 1.9 |
| | 21:12 | 0.4 | | 21:35 | 0.8 | | 22:32 | 0.7 | | 22:44 | 0.9 | | 23:13 | 0.7 | | 23:17 | 0.7 |
| 10 | 03:27 | 2.5 | 26 | 03:54 | 2.1 | 10 | 04:55 | 2.2 | 26 | 05:09 | 2.0 | 10 | 05:37 | 2.2 | 26 | 05:36 | 2.0 |
| | 09:36 | 0.4 | | 10:06 | 0.8 | | 11:21 | 0.6 | | 11:34 | 0.9 | | 12:07 | 0.6 | | 12:00 | 0.7 |
| | 15:50 | 2.4 | DOM | 16:14 | 1.9 | SEG | 17:36 | 1.9 | QUA | 17:49 | 1.7 | QUA | 18:18 | 1.8 | SEX | 18:16 | 1.8 |
| | 21:56 | 0.5 | | 22:11 | 0.9 | | 23:33 | 0.9 | | 23:41 | 1.0 | | | | | | |
| 11 | 04:13 | 2.4 | 27 | 04:34 | 2.0 | 11 | 06:00 | 2.1 | 27 | 06:06 | 1.9 | 11 | 00:13 | 0.8 | 27 | 00:12 | 0.8 |
| | 10:26 | 0.5 | | 10:51 | 0.9 | | 12:36 | 0.8 | | 12:38 | 0.9 | | 06:37 | 2.0 | | 06:30 | 2.0 |
| | 16:41 | 2.2 | SEG | 17:01 | 1.8 | TER | 18:53 | 1.8 | QUI | 18:59 | 1.7 | QUI | 13:12 | 0.7 | SÁB | 12:57 | 0.7 |
| | 22:45 | 0.7 | | 22:55 | 1.0 | | | | | | | ((| 19:25 | 1.8 |)) | 19:18 | 1.8 |
| 12 | 05:06 | 2.2 | 28 | 05:25 | 1.9 | 12 | 00:50 | 1.0 | 28 | 00:51 | 1.0 | 12 | 01:21 | 0.9 | 28 | 01:17 | 0.8 |
| | 11:27 | 0.7 | | 11:52 | 1.0 | | 07:18 | 2.0 | | 07:14 | 1.9 | | 07:44 | 1.9 | | 07:34 | 1.9 |
| | 17:44 | 2.0 | TER | 18:09 | 1.7 | QUA | 14:01 | 0.8 | SEX | 13:49 | 0.8 | SEX | 14:19 | 0.8 | DOM | 14:03 | 0.7 |
| | 23:46 | 0.9 | | | | ((| 20:20 | 1.8 |)) | 20:13 | 1.8 | | 20:34 | 1.7 | | 20:27 | 1.8 |
| 13 | 06:14 | 2.1 | 29 | 00:02 | 1.1 | 13 | 02:18 | 1.0 | 29 | 02:07 | 1.0 | 13 | 02:34 | 1.0 | 29 | 02:29 | 0.8 |
| | 12:47 | 0.9 | | 06:38 | 1.8 | | 08:39 | 2.0 | | 08:25 | 1.9 | | 08:52 | 1.9 | | 08:46 | 1.9 |
| | 19:08 | 1.8 | QUA | 13:20 | 1.1 | QUI | 15:19 | 0.8 | SÁB | 14:57 | 0.8 | SÁB | 15:22 | 0.8 | SEG | 15:12 | 0.7 |
| ((| | |)) | 19:47 | 1.7 | | 21:36 | 1.8 | | 21:19 | 1.9 | | 21:38 | 1.8 | | 21:36 | 1.9 |
| 14 | 01:12 | 1.1 | 30 | 01:37 | 1.2 | 14 | 03:35 | 1.0 | 30 | 03:17 | 0.9 | 14 | 03:42 | 0.9 | 30 | 03:43 | 0.7 |
| | 07:44 | 2.0 | | 08:07 | 1.8 | | 09:48 | 2.0 | | 09:31 | 2.0 | | 09:54 | 1.9 | | 09:58 | 2.0 |
| | 14:29 | 0.9 | QUI | 14:49 | 1.0 | SEX | 16:19 | 0.8 | DOM | 15:56 | 0.7 | DOM | 16:16 | 0.8 | TER | 16:18 | 0.6 |
| | 20:52 | 1.8 | | 21:13 | 1.7 | | 22:32 | 1.9 | | 22:16 | 2.0 | | 22:31 | 1.8 | | 22:39 | 2.0 |
| 15 | 02:55 | 1.1 | 31 | 03:04 | 1.1 | 15 | 04:32 | 0.9 | 15 | 04:39 | 0.9 | 15 | 04:39 | 0.9 | 31 | 04:50 | 0.6 |
| | 09:16 | 2.0 | | 09:22 | 1.9 | | 10:42 | 2.1 | | 10:47 | 1.9 | | 10:47 | 1.9 | | 11:03 | 2.0 |
| | 15:57 | 0.9 | SEX | 15:53 | 0.9 | SÁB | 17:04 | 0.7 | SEG | 17:01 | 0.8 | SEG | 17:01 | 0.8 | QUA | 17:17 | 0.5 |
| | 22:14 | 1.9 | | 22:11 | 1.9 | | 23:14 | 2.0 | | 23:15 | 1.9 | | 23:15 | 1.9 | | 23:36 | 2.2 |
| 16 | 04:14 | 1.0 | 16 | 05:17 | 0.8 | 16 | 05:17 | 0.8 | 16 | 05:26 | 0.8 | 16 | 05:26 | 0.8 | 16 | 05:26 | 0.8 |
| | 10:26 | 2.1 | | 11:25 | 2.1 | | 11:25 | 2.1 | | 11:32 | 1.9 | | 11:32 | 1.9 | | 11:32 | 1.9 |
| | 16:57 | 0.8 | DOM | 17:40 | 0.7 | | 17:40 | 0.7 | | 17:39 | 0.7 | | 17:39 | 0.7 | | 17:39 | 0.7 |
| | 23:08 | 2.0 | | 23:49 | 2.1 | | 23:49 | 2.1 | | 23:54 | 2.0 | | 23:54 | 2.0 | | 23:54 | 2.0 |

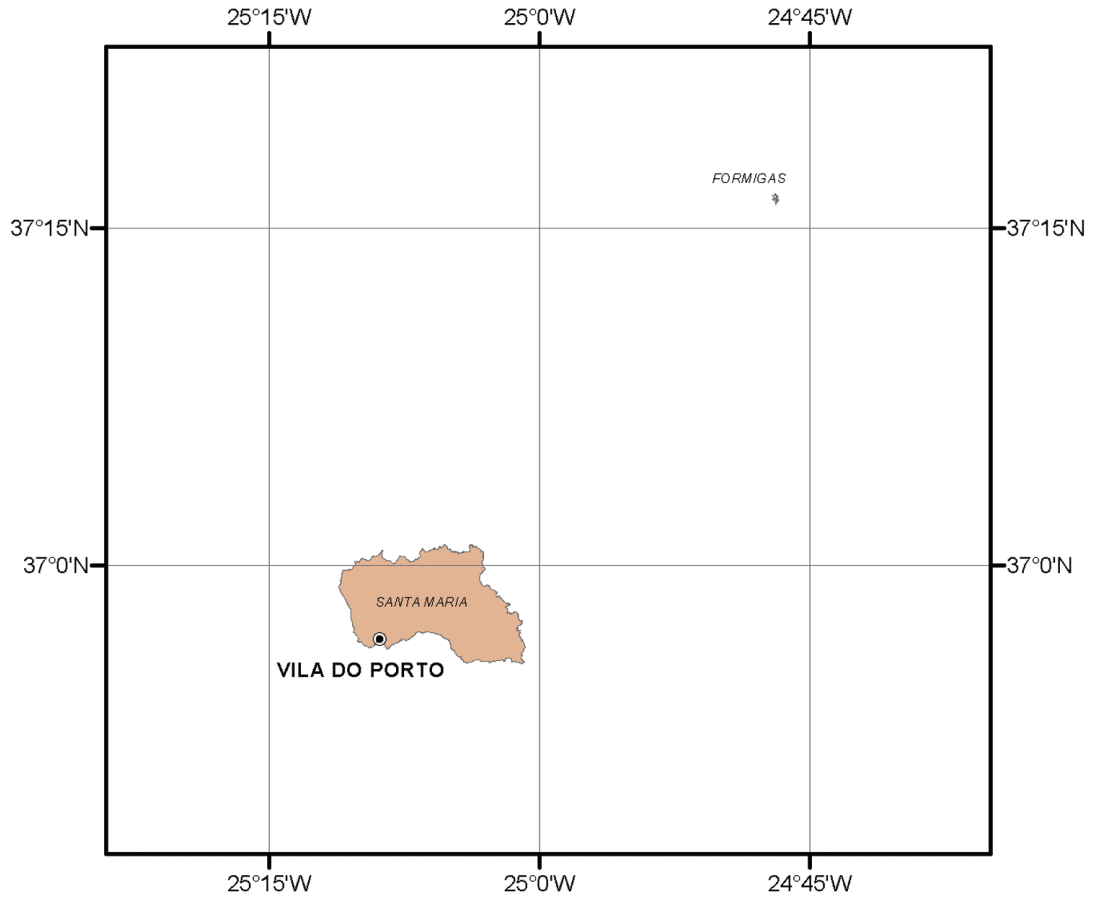
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**PORTOS
DO
ARQUIPÉLAGO DOS AÇORES**

PORTOS DO ARQUIPÉLAGO DOS AÇORES



VILA DO PORTO



PORTO DE VILA DO PORTO (ILHA DE SANTA MARIA)

NOTAS

1. ANÁLISE HARMÓNICA:

— Efetuada a partir das observações maregráficas de 30 de maio de 2008 a 31 de maio de 2009.

2. LOCALIZAÇÃO DO MARÉGRAFO:

— No cais da Vila do Porto:

Latitude 36° 56,75' N; Longitude 25° 08,87' W – WGS84.

3. ALTURAS DE MARÉ:

— Referidas ao nível do zero hidrográfico.

— Nível médio: 1,00 m.

4. ZERO HIDROGRÁFICO:

— 1,00 m abaixo do nível médio adotado (Vila do Porto, 1965).

— 3,991 m abaixo do taco IH 2005/02 localizado do lado direito do abrigo do marégrafo, para quem está de frente para a porta.

— 4,191 m abaixo do taco IH 2005/03 localizado no interior do abrigo do marégrafo.

— 6,231 m abaixo da marca de nivelamento N.º 6 existente junto à esquina E da Casa da Alfândega, no cais da Vila do Porto.

Porto de Vila do Porto (Ilha de Santa Maria)

Latitude 36° 56.75' N Longitude 25° 08.87' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JANEIRO | | | | FEVEREIRO | | | | MARÇO | | | | | | | | | |
|-----------|-----------|--------|-----------|-----------|--------|-----------|-----------|-------|-----------|-----------|--------|-----------|-----------|-----|-----------|-----------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 03:01 | 1.6 | 17 | 04:26 | 1.6 | 01 | 04:06 | 1.7 | 17 | 04:55 | 1.5 | 01 | 03:04 | 1.8 | 17 | 03:51 | 1.6 |
| | 09:19 | 0.3 | | 10:41 | 0.3 | | 10:26 | 0.2 | | 11:06 | 0.4 | | 09:21 | 0.0 | | 09:58 | 0.3 |
| | 15:22 | 1.5 | | SEX 16:44 | 1.4 | | SÁB 16:30 | 1.6 | | SEG 17:09 | 1.4 | | SÁB 15:27 | 1.7 | | SEG 16:04 | 1.5 |
| | 21:25 | 0.3 | | 22:41 | 0.4 | | 22:33 | 0.2 | | 23:11 | 0.5 | | 21:30 | 0.1 | | 22:08 | 0.4 |
| 02 | 03:41 | 1.6 | 18 | 05:01 | 1.6 | 02 | 04:48 | 1.7 | 18 | 05:26 | 1.4 | 02 | 03:44 | 1.8 | 18 | 04:19 | 1.5 |
| | 10:01 | 0.3 | | 11:17 | 0.4 | | 11:08 | 0.2 | | 11:38 | 0.5 | | 10:00 | 0.1 | | 10:26 | 0.4 |
| | QUI 16:04 | 1.5 | | SÁB 17:19 | 1.4 | | DOM 17:13 | 1.5 | | TER 17:43 | 1.3 | | DOM 16:07 | 1.7 | | TER 16:33 | 1.5 |
| | 22:07 | 0.3 | | 23:16 | 0.5 | | 23:17 | 0.3 | | 23:46 | 0.6 | | 22:12 | 0.1 | | 22:38 | 0.4 |
| 03 | 04:23 | 1.6 | 19 | 05:37 | 1.5 | 03 | 05:33 | 1.6 | 19 | 06:01 | 1.3 | 03 | 04:25 | 1.8 | 19 | 04:48 | 1.4 |
| | 10:46 | 0.3 | | 11:53 | 0.5 | | 11:54 | 0.3 | | 12:16 | 0.6 | | 10:41 | 0.1 | | 10:56 | 0.5 |
| | SEX 16:49 | 1.5 | | DOM 17:56 | 1.3 | | SEG 18:01 | 1.5 | | QUA 18:24 | 1.2 | | SEG 16:49 | 1.6 | | QUA 17:03 | 1.4 |
| | 22:51 | 0.3 | | 23:54 | 0.5 | | | | | | | | 22:56 | 0.2 | | 23:13 | 0.5 |
| 04 | 05:08 | 1.6 | 20 | 06:16 | 1.4 | 04 | 00:06 | 0.3 | 20 | 00:31 | 0.7 | 04 | 05:09 | 1.6 | 20 | 05:21 | 1.3 |
| | 11:33 | 0.3 | | 12:34 | 0.6 | | 06:23 | 1.5 | | 06:48 | 1.2 | | 11:25 | 0.3 | | 11:30 | 0.6 |
| | SÁB 17:37 | 1.4 | | SEG 18:39 | 1.3 | | TER 12:45 | 0.4 | | QUI 13:06 | 0.7 | | TER 17:35 | 1.5 | | QUI 17:41 | 1.3 |
| | 23:40 | 0.4 | | | | | 18:56 | 1.4 | | ((19:23 | 1.2 | | 23:45 | 0.3 | | 23:56 | 0.6 |
| 05 | 05:58 | 1.5 | 21 | 00:38 | 0.6 | 05 | 01:04 | 0.5 | 21 | 01:38 | 0.7 | 05 | 05:59 | 1.5 | 21 | 06:05 | 1.2 |
| | 12:24 | 0.4 | | 07:01 | 1.3 | | 07:23 | 1.4 | | 08:04 | 1.1 | | 12:14 | 0.4 | | 12:16 | 0.6 |
| | DOM 18:31 | 1.4 | | TER 13:21 | 0.6 | | QUA 13:46 | 0.5 | | SEX 14:22 | 0.7 | | QUA 18:29 | 1.4 | | SEX 18:35 | 1.2 |
| | | | | ((19:32 | 1.2 | |) 20:04 | 1.3 | | 20:56 | 1.1 | | | | | | |
| 06 | 00:34 | 0.4 | 22 | 01:34 | 0.7 | 06 | 02:19 | 0.5 | 22 | 03:28 | 0.8 | 06 | 00:44 | 0.4 | 22 | 01:01 | 0.7 |
| | 06:53 | 1.5 | | 08:00 | 1.2 | | 08:40 | 1.3 | | 09:48 | 1.1 | | 07:01 | 1.3 | | 07:18 | 1.1 |
| | SEG 13:21 | 0.4 | | QUA 14:22 | 0.7 | | QUI 15:04 | 0.6 | | SÁB 16:03 | 0.7 | | QUI 13:17 | 0.5 | | SÁB 13:31 | 0.7 |
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| 07 | 01:36 | 0.5 | 23 | 02:51 | 0.7 | 07 | 03:54 | 0.6 | 23 | 05:08 | 0.7 | 07 | 02:07 | 0.6 | 23 | 02:49 | 0.7 |
| | 07:57 | 1.4 | | 09:16 | 1.2 | | 10:12 | 1.2 | | 11:12 | 1.2 | | 08:28 | 1.2 | | 09:12 | 1.1 |
| | TER 14:25 | 0.4 | | QUI 15:37 | 0.7 | | SEX 16:33 | 0.6 | | DOM 17:20 | 0.6 | | SEX 14:46 | 0.6 | | DOM 15:19 | 0.7 |
| | 20:41 | 1.3 | | 22:03 | 1.2 | | 22:55 | 1.3 | | 23:39 | 1.3 | | 21:16 | 1.2 | | 21:51 | 1.2 |
| 08 | 02:48 | 0.5 | 24 | 04:22 | 0.7 | 08 | 05:24 | 0.5 | 24 | 06:06 | 0.6 | 08 | 03:56 | 0.6 | 24 | 04:32 | 0.6 |
| | 09:08 | 1.3 | | 10:33 | 1.2 | | 11:34 | 1.2 | | 12:07 | 1.3 | | 10:15 | 1.1 | | 10:42 | 1.1 |
| | QUA 15:35 | 0.5 | | SEX 16:50 | 0.7 | | SÁB 17:47 | 0.5 | | SEG 18:12 | 0.5 | | SÁB 16:29 | 0.6 | | SEG 16:46 | 0.6 |
| | 21:54 | 1.3 | | 23:13 | 1.2 | | | | | | | | 22:49 | 1.3 | | 23:03 | 1.3 |
| 09 | 04:07 | 0.5 | 25 | 05:34 | 0.7 | 09 | 00:04 | 1.4 | 25 | 00:27 | 1.4 | 09 | 05:27 | 0.5 | 25 | 05:33 | 0.5 |
| | 10:22 | 1.3 | | 11:37 | 1.2 | | 06:29 | 0.4 | | 06:48 | 0.4 | | 11:37 | 1.2 | | 11:39 | 1.3 |
| | QUI 16:45 | 0.5 | | SÁB 17:48 | 0.6 | | DOM 12:36 | 1.3 | | TER 12:51 | 1.4 | | DOM 17:43 | 0.5 | | TER 17:42 | 0.5 |
| | 23:04 | 1.4 | | | | | 18:42 | 0.4 | | 18:54 | 0.4 | | 23:56 | 1.4 | | 23:54 | 1.4 |
| 10 | 05:21 | 0.5 | 26 | 00:07 | 1.3 | 10 | 00:57 | 1.5 | 26 | 01:07 | 1.5 | 10 | 06:24 | 0.4 | 26 | 06:18 | 0.3 |
| | 11:31 | 1.4 | | 06:26 | 0.6 | | 07:18 | 0.4 | | 07:27 | 0.3 | | 12:30 | 1.3 | | 12:24 | 1.4 |
| | SEX 17:48 | 0.4 | | 12:27 | 1.3 | | SEG 13:23 | 1.4 | | QUA 13:31 | 1.5 | | SEG 18:32 | 0.5 | | QUA 18:26 | 0.3 |
| | | | | 18:34 | 0.5 | | 19:26 | 0.4 | | 19:33 | 0.3 | | | | | | |
| 11 | 00:06 | 1.4 | 27 | 00:51 | 1.4 | 11 | 01:40 | 1.6 | 27 | 01:46 | 1.7 | 11 | 00:43 | 1.5 | 27 | 00:37 | 1.6 |
| | 06:24 | 0.4 | | 07:09 | 0.5 | | 07:58 | 0.3 | | 08:05 | 0.2 | | 07:04 | 0.3 | | 06:58 | 0.2 |
| | SÁB 12:32 | 1.4 | | SEG 13:10 | 1.4 | | TER 14:02 | 1.5 | | QUI 14:09 | 1.6 | | TER 13:10 | 1.4 | | QUI 13:04 | 1.5 |
| | 18:42 | 0.4 | | 19:14 | 0.4 | | 20:03 | 0.3 | | 20:12 | 0.2 | | 19:11 | 0.4 | | 19:07 | 0.2 |
| 12 | 01:00 | 1.5 | 28 | 01:30 | 1.5 | 12 | 02:18 | 1.6 | 28 | 02:25 | 1.8 | 12 | 01:22 | 1.5 | 28 | 01:18 | 1.7 |
| | 07:18 | 0.3 | | 07:48 | 0.4 | | 08:33 | 0.3 | | 08:42 | 0.1 | | 07:38 | 0.3 | | 07:36 | 0.1 |
| | DOM 13:24 | 1.4 | | TER 13:50 | 1.5 | | QUA 14:37 | 1.5 | | SEX 14:48 | 1.7 | | QUA 13:43 | 1.5 | | SEX 13:44 | 1.6 |
| | 19:30 | 0.3 | | 19:53 | 0.3 | | ○ 20:37 | 0.3 | | ● 20:51 | 0.1 | | 19:43 | 0.3 | | 19:47 | 0.1 |
| 13 | 01:48 | 1.6 | 29 | 02:08 | 1.6 | 13 | 02:52 | 1.7 | 13 | 03:55 | 1.7 | 13 | 01:55 | 1.6 | 29 | 01:59 | 1.8 |
| | 08:05 | 0.3 | | 08:27 | 0.3 | | 09:06 | 0.2 | | 08:08 | 0.3 | | 08:15 | 0.0 | | | |
| | SEG 14:11 | 1.5 | | QUA 14:29 | 1.5 | | QUI 15:10 | 1.5 | | QUI 14:13 | 1.5 | | SÁB 14:23 | 1.7 | | | |
| | ○ 20:14 | 0.3 | | ● 20:32 | 0.2 | | 21:09 | 0.3 | | 20:14 | 0.3 | | ● 20:27 | 0.0 | | | |
| 14 | 02:31 | 1.6 | 30 | 02:47 | 1.7 | 14 | 03:24 | 1.7 | 14 | 02:26 | 1.6 | 14 | 02:26 | 1.6 | 30 | 02:39 | 1.8 |
| | 08:48 | 0.3 | | 09:05 | 0.2 | | 09:37 | 0.3 | | 08:36 | 0.2 | | 08:54 | 0.0 | | | |
| | TER 14:53 | 1.5 | | QUI 15:09 | 1.6 | | SEX 15:40 | 1.5 | | SEX 14:42 | 1.6 | | DOM 15:04 | 1.7 | | | |
| | 20:54 | 0.3 | | 21:11 | 0.2 | | 21:39 | 0.3 | | ○ 20:42 | 0.3 | | 21:09 | 0.0 | | | |
| 15 | 03:12 | 1.7 | 31 | 03:26 | 1.7 | 15 | 03:55 | 1.7 | 15 | 02:55 | 1.6 | 15 | 02:55 | 1.6 | 31 | 03:21 | 1.8 |
| | 09:28 | 0.3 | | 09:45 | 0.2 | | 10:06 | 0.3 | | 09:04 | 0.2 | | 09:35 | 0.0 | | | |
| | QUA 15:32 | 1.5 | | SEX 15:49 | 1.6 | | SÁB 16:10 | 1.5 | | SÁB 15:10 | 1.6 | | SEG 15:45 | 1.7 | | | |
| | 21:31 | 0.3 | | 21:51 | 0.2 | | 22:09 | 0.3 | | 21:11 | 0.3 | | 21:53 | 0.1 | | | |
| 16 | 03:49 | 1.7 | | | | 16 | 04:25 | 1.6 | 16 | 03:23 | 1.6 | 16 | 03:23 | 1.6 | | | |
| | 10:06 | 0.3 | | | | | 10:36 | 0.3 | | 09:31 | 0.3 | | | | | | |
| | QUI 16:09 | 1.5 | | | | | 16:39 | 1.5 | | 15:37 | 1.5 | | | | | | |
| | 22:07 | 0.3 | | | | | 22:39 | 0.4 | | 21:39 | 0.3 | | | | | | |

Porto de Vila do Porto (Ilha de Santa Maria)

Latitude 36° 56.75' N Longitude 25° 08.87' W

Horas do Fuso: 0 (TU)

Ano: 2025

| ABRIL | | | MAIO | | | JUNHO | | | | | | | | | | | |
|------------------|----------------------------------|--------------------------|------------------|----------------------------------|--------------------------|------------------|----------------------------------|--------------------------|------------------|----------------------------------|--------------------------|------------------|----------------------------------|--------------------------|------------------|----------------------------------|--------------------------|
| Hora | Altura | | Hora | Altura | | Hora | Altura | | | | | | | | | | |
| 01 TER | 04:05 10:17 16:28 22:39 | 1.7 0.1 1.6 0.2 | 17 QUI | 04:22 10:27 16:39 22:54 | 1.4 0.5 1.4 0.5 | 01 QUI | 04:40 10:46 17:05 23:27 | 1.5 0.3 1.5 0.3 | 17 SÁB | 04:51 10:54 17:12 23:39 | 1.3 0.5 1.4 0.5 | 01 DOM | 00:16 06:22 12:22 18:46 | 0.4 1.3 0.5 1.4 | 17 TER | 00:22 06:28 12:31 18:50 | 0.5 1.3 0.5 1.4 |
| 02 QUA | 04:51 11:02 17:16 23:32 | 1.6 0.3 1.5 0.3 | 18 SEX | 04:59 11:04 17:20 23:42 | 1.3 0.5 1.3 0.6 | 02 SEX | 05:36 11:41 18:03 | 1.3 0.4 1.4 | 18 DOM | 05:43 11:46 18:08 | 1.2 0.5 1.3 | 02 SEG | 01:17 07:25 13:25 19:50 | 0.5 1.2 0.6 1.3 | 18 QUA | 01:19 07:30 13:33 19:53 | 0.5 1.3 0.5 1.4 |
| 03 QUI | 05:44 11:53 18:13 | 1.4 0.4 1.4 | 19 SÁB | 05:48 11:54 18:16 | 1.2 0.6 1.2 | 03 SÁB | 00:33 06:43 12:46 19:13 | 0.4 1.2 0.5 1.3 | 19 SEG | 00:41 06:50 12:52 19:17 | 0.5 1.2 0.6 1.3 | 03 TER | 02:21 08:33 14:33 20:55 | 0.5 1.2 0.6 1.3 | 19 QUI | 02:21 08:36 14:39 20:58 | 0.4 1.3 0.5 1.4 |
| 04 SEX | 00:37 06:51 13:00 19:27 | 0.4 1.2 0.6 1.3 | 20 DOM | 00:50 07:02 13:08 19:39 | 0.6 1.1 0.7 1.2 | 04 DOM | 01:51 08:05 14:07 20:33 | 0.5 1.1 0.6 1.3 | 20 TER | 01:53 08:07 14:08 20:31 | 0.5 1.2 0.6 1.3 | 04 QUA | 03:25 09:38 15:41 21:56 | 0.5 1.2 0.6 1.3 | 20 SEX | 03:25 09:41 15:47 22:02 | 0.4 1.3 0.5 1.4 |
| 05 SÁB | 02:05 08:23 14:33 21:02 | 0.5 1.1 0.6 1.2 | 21 SEG | 02:22 08:41 14:43 21:10 | 0.6 1.1 0.7 1.2 | 05 SEG | 03:14 09:30 15:32 21:49 | 0.5 1.1 0.6 1.3 | 21 QUA | 03:04 09:20 15:21 21:38 | 0.5 1.2 0.5 1.3 | 05 QUI | 04:21 10:34 16:40 22:50 | 0.5 1.2 0.6 1.3 | 21 SÁB | 04:26 10:43 16:52 23:04 | 0.4 1.4 0.4 1.4 |
| 06 DOM | 03:48 10:06 16:12 22:29 | 0.6 1.1 0.6 1.3 | 22 TER | 03:49 10:03 16:05 22:21 | 0.6 1.2 0.6 1.3 | 06 TER | 04:25 10:37 16:40 22:49 | 0.5 1.2 0.6 1.3 | 22 QUI | 04:07 10:22 16:25 22:37 | 0.4 1.3 0.4 1.4 | 06 SEX | 05:10 11:23 17:30 23:37 | 0.5 1.3 0.6 1.3 | 22 DOM | 05:24 11:41 17:53 | 0.3 1.5 0.4 |
| 07 SEG | 05:07 11:18 17:21 23:30 | 0.5 1.2 0.6 1.4 | 23 QUA | 04:52 11:03 17:05 23:16 | 0.4 1.3 0.4 1.4 | 07 QUA | 05:17 11:27 17:30 23:37 | 0.4 1.3 0.5 1.4 | 23 SEX | 05:02 11:15 17:20 23:30 | 0.3 1.4 0.3 1.5 | 07 SÁB | 05:52 12:05 18:13 | 0.5 1.3 0.5 | 23 SEG | 00:03 06:19 12:36 18:49 | 1.5 0.3 1.5 0.3 |
| 08 TER | 05:58 12:06 18:08 | 0.4 1.3 0.5 | 24 QUI | 05:41 11:51 17:53 | 0.3 1.4 0.3 | 08 QUI | 05:57 12:06 18:10 | 0.4 1.3 0.5 | 24 SÁB | 05:51 12:05 18:11 | 0.2 1.5 0.2 | 08 DOM | 00:19 06:29 12:43 18:52 | 1.3 0.4 1.4 0.5 | 24 TER | 00:59 07:10 13:28 19:43 | 1.5 0.3 1.6 0.2 |
| 09 QUA | 00:16 06:36 12:43 18:44 | 1.4 0.4 1.4 0.4 | 25 SEX | 00:03 06:24 12:34 18:38 | 1.5 0.2 1.5 0.2 | 09 SEX | 00:17 06:31 12:41 18:45 | 1.4 0.4 1.4 0.4 | 25 DOM | 00:21 06:38 12:52 19:01 | 1.6 0.1 1.6 0.2 | 09 SEG | 00:57 07:04 13:19 19:29 | 1.4 0.4 1.4 0.4 | 25 QUA | 01:52 08:00 14:17 20:34 | 1.5 0.3 1.7 0.2 |
| 10 QUI | 00:53 07:08 13:15 19:16 | 1.5 0.3 1.4 0.4 | 26 SÁB | 00:48 07:06 13:17 19:22 | 1.6 0.1 1.6 0.1 | 10 SÁB | 00:52 07:02 13:13 19:18 | 1.4 0.3 1.4 0.4 | 26 SEG | 01:11 07:24 13:39 19:50 | 1.6 0.1 1.6 0.1 | 10 TER | 01:34 07:38 13:53 20:05 | 1.4 0.4 1.4 0.4 | 26 QUI | 02:43 08:47 15:05 21:24 | 1.5 0.3 1.7 0.2 |
| 11 SEX | 01:25 07:36 13:44 19:46 | 1.5 0.3 1.5 0.3 | 27 DOM | 01:32 07:47 13:59 20:06 | 1.7 0.0 1.7 0.1 | 11 DOM | 01:25 07:33 13:44 19:50 | 1.5 0.3 1.5 0.4 | 27 TER | 02:01 08:11 14:27 20:40 | 1.6 0.1 1.7 0.1 | 11 QUA | 02:09 08:12 14:27 20:41 | 1.4 0.4 1.5 0.4 | 27 SEX | 03:31 09:33 15:52 22:12 | 1.5 0.3 1.7 0.3 |
| 12 SÁB | 01:56 08:04 14:13 20:15 | 1.6 0.3 1.5 0.3 | 28 SEG | 02:17 08:30 14:42 20:51 | 1.7 0.0 1.7 0.1 | 12 SEG | 01:57 08:02 14:14 20:21 | 1.5 0.3 1.5 0.4 | 28 QUA | 02:50 08:57 15:15 21:31 | 1.6 0.2 1.7 0.2 | 12 QUI | 02:45 08:47 15:03 21:19 | 1.4 0.4 1.5 0.4 | 28 SÁB | 04:17 10:18 16:37 22:58 | 1.5 0.4 1.6 0.3 |
| 13 DOM | 02:25 08:32 14:41 20:44 | 1.6 0.3 1.5 0.3 | 29 TER | 03:03 09:13 15:27 21:39 | 1.7 0.1 1.7 0.1 | 13 TER | 02:28 08:32 14:44 20:54 | 1.4 0.3 1.5 0.4 | 29 QUI | 03:40 09:45 16:04 22:24 | 1.5 0.2 1.6 0.2 | 13 SEX | 03:21 09:23 15:40 21:59 | 1.4 0.4 1.5 0.4 | 29 DOM | 05:02 11:02 17:22 23:44 | 1.4 0.4 1.6 0.4 |
| 14 SEG | 02:54 08:59 15:08 21:13 | 1.5 0.3 1.5 0.3 | 30 QUA | 03:50 09:58 16:14 22:30 | 1.6 0.2 1.6 0.2 | 14 QUA | 03:00 09:03 15:16 21:28 | 1.4 0.4 1.5 0.4 | 30 SEX | 04:31 10:34 16:54 23:19 | 1.4 0.3 1.6 0.3 | 14 SÁB | 04:01 10:03 16:20 22:42 | 1.4 0.4 1.5 0.4 | 30 SEG | 05:48 11:47 18:08 | 1.4 0.5 1.5 |
| 15 TER | 03:22 09:27 15:36 21:44 | 1.5 0.3 1.5 0.4 | | | | 15 QUI | 03:33 09:35 15:49 22:05 | 1.4 0.4 1.4 0.4 | 31 SÁB | 05:25 11:26 17:48 | 1.3 0.4 1.5 | 15 DOM | 04:44 10:46 17:04 23:29 | 1.4 0.4 1.5 0.4 | | | |
| 16 QUA | 03:51 09:55 16:06 22:17 | 1.4 0.4 1.4 0.4 | | | | 16 SEX | 04:09 10:11 16:27 22:48 | 1.3 0.4 1.4 0.5 | | | | 16 SEG | 05:32 11:35 17:54 | 1.3 0.5 1.4 | | | |

Porto de Vila do Porto (Ilha de Santa Maria)

Latitude 36° 56.75' N Longitude 25° 08.87' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JULHO | | | | AGOSTO | | | | SETEMBRO | | | | | | | | | |
|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 00:31 06:35 TER 12:34 18:58 | 0.5 1.3 0.6 1.4 | 17 | 00:45 06:54 QUI 12:59 19:17 | 0.4 1.4 0.5 1.5 | 01 | 01:03 07:14 SEX 13:17 19:43 | 0.7 1.3 0.8 1.3 | 17 | 02:21 08:45 DOM 15:08 21:28 | 0.6 1.4 0.7 1.3 | 01 | 02:10 08:47 SEG 15:21 21:40 | 0.9 1.3 0.9 1.2 | 17 | 05:09 11:23 QUA 17:52 | 0.7 1.5 0.5 |
| 02 | 01:20 07:27 QUA 13:27 19:52 | 0.6 1.3 0.6 1.3 | 18 | 01:42 07:56 SEX 14:04 20:23 | 0.5 1.4 0.5 1.4 | 02 | 02:00 08:20 SÁB 14:30 20:55 | 0.8 1.3 0.8 1.3 | 18 | 03:49 10:13 SEG 16:42 22:55 | 0.7 1.4 0.6 1.4 | 02 | 03:52 10:24 TER 16:58 23:01 | 0.9 1.3 0.8 1.3 | 18 | 00:00 06:03 QUI 12:15 18:37 | 1.4 0.6 1.6 0.5 |
| 03 | 02:14 08:27 QUI 14:29 20:52 | 0.6 1.2 0.7 1.3 | 19 | 02:48 09:07 SÁB 15:19 21:37 | 0.5 1.4 0.6 1.4 | 03 | 03:13 09:41 DOM 16:02 22:16 | 0.8 1.2 0.8 1.2 | 19 | 05:10 11:28 TER 17:55 | 0.6 1.5 0.6 | 03 | 05:07 11:27 QUA 17:53 23:54 | 0.8 1.4 0.7 1.4 | 19 | 00:43 06:45 SEX 12:56 19:14 | 1.5 0.5 1.7 0.4 |
| 04 | 03:14 09:31 SEX 15:39 21:56 | 0.6 1.2 0.7 1.3 | 20 | 04:00 10:21 DOM 16:38 22:51 | 0.5 1.4 0.5 1.4 | 04 | 04:32 10:56 SEG 17:20 23:24 | 0.8 1.3 0.8 1.3 | 20 | 00:03 06:11 QUA 12:27 18:49 | 1.4 0.6 1.6 0.5 | 04 | 05:57 12:12 QUI 18:33 | 0.7 1.5 0.6 | 20 | 01:19 07:20 SÁB 13:32 19:46 | 1.6 0.4 1.8 0.4 |
| 05 | 04:15 10:34 SÁB 16:46 22:56 | 0.6 1.2 0.7 1.3 | 21 | 05:10 11:29 SEG 17:49 23:59 | 0.5 1.5 0.5 1.4 | 05 | 05:34 11:54 TER 18:15 | 0.7 1.4 0.7 | 21 | 00:55 06:59 QUI 13:14 19:33 | 1.5 0.5 1.7 0.4 | 05 | 00:34 06:36 SEX 12:49 19:09 | 1.5 0.6 1.6 0.5 | 21 | 01:52 07:52 DOM 14:05 20:16 | 1.7 0.4 1.8 0.4 |
| 06 | 05:12 11:29 DOM 17:44 23:48 | 0.6 1.3 0.6 1.3 | 22 | 06:12 12:29 TER 18:49 | 0.5 1.5 0.4 | 06 | 00:16 06:21 QUA 12:38 18:57 | 1.4 0.6 1.5 0.6 | 22 | 01:38 07:40 SEX 13:55 20:11 | 1.6 0.4 1.8 0.3 | 06 | 01:11 07:13 SÁB 13:26 19:43 | 1.6 0.4 1.8 0.4 | 22 | 02:22 08:23 SEG 14:36 20:45 | 1.7 0.4 1.8 0.4 |
| 07 | 06:00 12:17 SEG 18:31 | 0.6 1.3 0.6 | 23 | 00:57 07:05 QUA 13:22 19:41 | 1.5 0.4 1.6 0.3 | 07 | 00:58 07:01 QUI 13:16 19:34 | 1.4 0.6 1.6 0.5 | 23 | 02:16 08:17 SÁB 14:32 20:46 | 1.6 0.4 1.8 0.3 | 07 | 01:47 07:49 DOM 14:02 20:19 | 1.7 0.3 1.8 0.3 | 23 | 02:52 08:52 TER 15:06 21:13 | 1.7 0.4 1.8 0.4 |
| 08 | 00:34 06:41 TER 12:58 19:13 | 1.3 0.5 1.4 0.5 | 24 | 01:48 07:52 QUI 14:09 20:27 | 1.5 0.4 1.7 0.3 | 08 | 01:36 07:38 SEX 13:53 20:10 | 1.5 0.5 1.7 0.4 | 24 | 02:51 08:50 DOM 15:06 21:18 | 1.7 0.4 1.8 0.3 | 08 | 02:24 08:26 SEG 14:39 20:55 | 1.8 0.3 1.9 0.2 | 24 | 03:20 09:22 QUA 15:35 21:41 | 1.7 0.5 1.7 0.5 |
| 09 | 01:15 07:20 QUA 13:36 19:51 | 1.4 0.5 1.5 0.5 | 25 | 02:33 08:35 SEX 14:52 21:10 | 1.6 0.3 1.8 0.3 | 09 | 02:12 08:14 SÁB 14:29 20:46 | 1.6 0.4 1.7 0.4 | 25 | 03:23 09:23 SEG 15:39 21:50 | 1.7 0.4 1.8 0.4 | 09 | 03:01 09:04 TER 15:17 21:33 | 1.8 0.2 1.9 0.2 | 25 | 03:49 09:52 QUI 16:04 22:10 | 1.6 0.5 1.6 0.5 |
| 10 | 01:54 07:56 QUI 14:13 20:29 | 1.4 0.5 1.5 0.4 | 26 | 03:15 09:15 SÁB 15:33 21:49 | 1.6 0.3 1.8 0.3 | 10 | 02:49 08:51 DOM 15:05 21:23 | 1.7 0.3 1.8 0.3 | 26 | 03:54 09:54 TER 16:10 22:20 | 1.7 0.4 1.7 0.5 | 10 | 03:40 09:44 QUA 15:58 22:13 | 1.8 0.3 1.9 0.3 | 26 | 04:18 10:23 SEX 16:33 22:40 | 1.6 0.6 1.5 0.6 |
| 11 | 02:31 08:33 SEX 14:49 21:07 | 1.5 0.4 1.6 0.4 | 27 | 03:53 09:53 DOM 16:11 22:27 | 1.6 0.4 1.7 0.4 | 11 | 03:26 09:29 SEG 15:43 22:01 | 1.7 0.3 1.8 0.3 | 27 | 04:25 10:25 QUA 16:41 22:51 | 1.6 0.5 1.7 0.5 | 11 | 04:21 10:27 QUI 16:41 22:56 | 1.8 0.3 1.8 0.4 | 27 | 04:50 10:58 SÁB 17:07 23:16 | 1.5 0.7 1.4 0.7 |
| 12 | 03:09 09:10 SÁB 15:26 21:45 | 1.5 0.4 1.6 0.4 | 28 | 04:30 10:29 SEG 16:48 23:03 | 1.6 0.4 1.7 0.4 | 12 | 04:05 10:08 TER 16:23 22:41 | 1.7 0.3 1.8 0.3 | 28 | 04:56 10:58 QUI 17:13 23:24 | 1.5 0.6 1.6 0.6 | 12 | 05:06 11:15 SEX 17:29 23:44 | 1.7 0.4 1.6 0.5 | 28 | 05:28 11:43 DOM 17:52 | 1.4 0.8 1.3 |
| 13 | 03:47 09:49 DOM 16:05 22:26 | 1.5 0.4 1.7 0.4 | 29 | 05:06 11:05 TER 17:25 23:40 | 1.5 0.5 1.6 0.5 | 13 | 04:46 10:50 QUA 17:05 23:24 | 1.7 0.4 1.7 0.4 | 29 | 05:30 11:34 SEX 17:50 | 1.5 0.7 1.4 | 13 | 05:58 12:13 SÁB 18:28 | 1.6 0.6 1.5 | 29 | 00:03 06:24 SEG 12:51 19:08 | 0.8 1.3 0.9 1.2 |
| 14 | 04:28 10:31 SEG 16:47 23:08 | 1.5 0.4 1.6 0.4 | 30 | 05:43 11:43 QUA 18:03 | 1.4 0.6 1.5 | 14 | 05:31 11:37 QUI 17:52 | 1.6 0.4 1.6 | 30 | 00:02 06:12 SÁB 12:20 18:37 | 0.7 1.4 0.8 1.3 | 14 | 00:45 07:06 DOM 13:31 19:50 | 0.6 1.5 0.7 1.3 | 30 | 01:19 07:59 TER 14:44 21:04 | 0.9 1.3 0.9 1.2 |
| 15 | 05:12 11:15 TER 17:31 23:54 | 1.5 0.4 1.6 0.4 | 31 | 00:19 06:24 QUI 12:25 18:47 | 0.6 1.4 0.7 1.4 | 15 | 00:12 06:22 SEX 12:31 18:48 | 0.5 1.5 0.5 1.5 | 31 | 00:52 07:12 DOM 13:29 19:54 | 0.8 1.3 0.9 1.2 | 15 | 02:08 08:37 SEG 15:14 21:34 | 0.7 1.4 0.7 1.3 | | | |
| 16 | 05:59 12:04 QUA 18:21 | 1.5 0.4 1.5 | | | | 16 | 01:09 07:25 SÁB 13:39 19:59 | 0.6 1.4 0.6 1.4 | | | | 16 | 03:49 10:12 TER 16:49 23:01 | 0.7 1.4 0.6 1.4 | | | |

Porto de Vila do Porto (Ilha de Santa Maria)

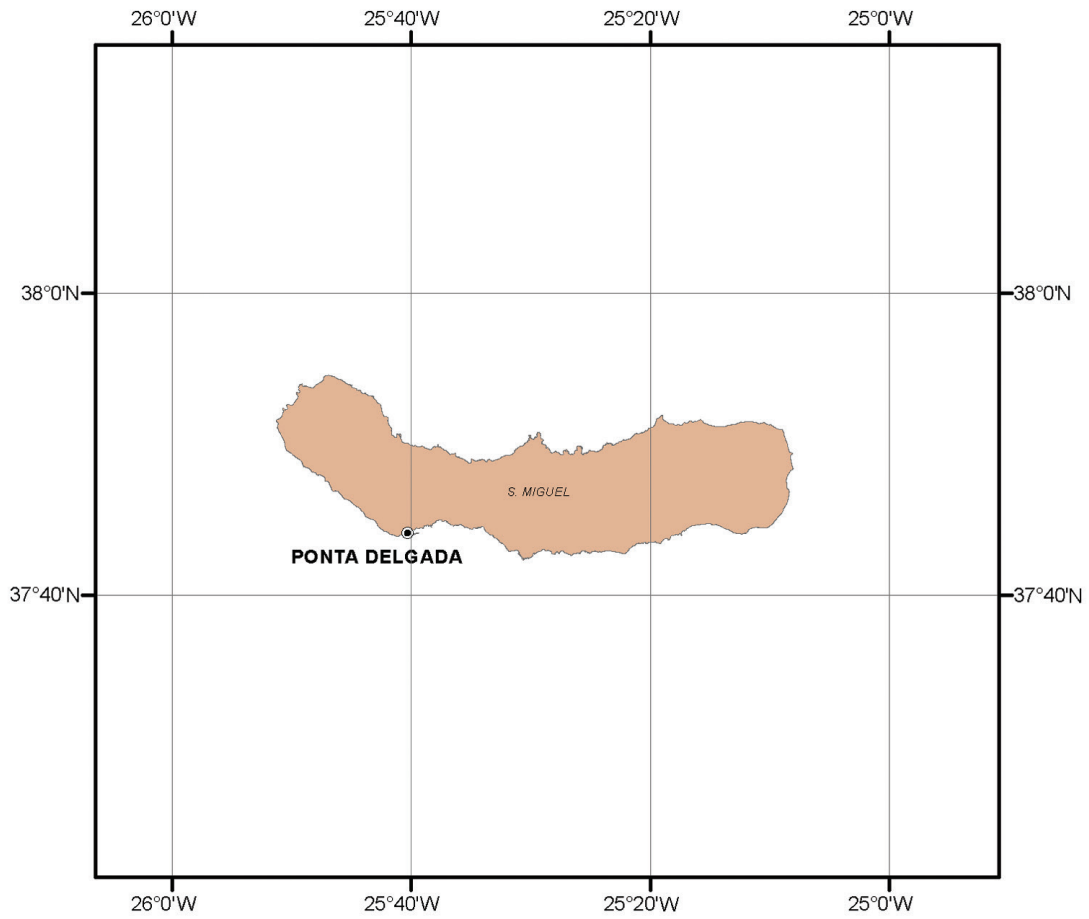
Latitude 36° 56.75' N Longitude 25° 08.87' W

Horas do Fuso: 0 (TU)

Ano: 2025

| OUTUBRO | | | | NOVEMBRO | | | | DEZEMBRO | | | | | | | | | |
|-----------|--|--------------------------|-----------|--|--------------------------|-----------|--|--------------------------|-----------|--|--------------------------|-----------|--|--------------------------|-----------|--|--------------------------|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 03:09 09:43 QUA 16:23 22:30 | 0.9 1.3 0.8 1.3 | 17 | 05:42 11:51 SEX 18:13 | 0.6 1.6 0.5 | 01 | 04:42 10:54 SÁB 17:19 23:27 | 0.6 1.5 0.5 1.5 | 17 | 00:24 06:29 SEG 12:36 18:47 | 1.5 0.5 1.5 0.4 | 01 | 04:52 11:03 SEG 17:25 23:38 | 0.5 1.5 0.3 1.5 | 17 | 00:34 06:44 QUA 12:48 18:55 | 1.4 0.5 1.4 0.5 |
| 02 | 04:31 10:50 QUI 17:19 23:22 | 0.8 1.4 0.7 1.4 | 18 | 00:19 06:22 SÁB 13:30 18:46 | 1.5 0.5 1.6 0.4 | 02 | 05:30 11:40 DOM 18:00 | 0.5 1.6 0.3 | 18 | 00:58 07:03 TER 13:10 19:18 | 1.5 0.5 1.5 0.4 | 02 | 05:45 11:54 TER 18:12 | 0.4 1.6 0.3 | 18 | 01:11 07:22 QUI 13:26 19:30 | 1.4 0.5 1.4 0.5 |
| 03 | 05:24 11:36 SEX 18:00 | 0.6 1.5 0.5 | 19 | 00:53 06:56 DOM 13:05 19:17 | 1.6 0.5 1.7 0.4 | 03 | 00:09 06:13 SEG 12:23 18:41 | 1.6 0.4 1.7 0.2 | 19 | 01:30 07:36 QUA 13:43 19:48 | 1.5 0.4 1.5 0.4 | 03 | 00:26 06:35 QUA 12:45 18:59 | 1.6 0.3 1.6 0.2 | 19 | 01:46 07:58 SEX 14:01 20:03 | 1.5 0.5 1.4 0.4 |
| 04 | 00:04 06:05 SÁB 12:16 18:36 | 1.5 0.5 1.7 0.4 | 20 | 01:24 07:27 SEG 13:36 19:45 | 1.6 0.4 1.7 0.4 | 04 | 00:51 06:55 TER 13:06 19:21 | 1.7 0.3 1.8 0.2 | 20 | 02:01 08:08 QUI 14:15 ● 20:18 | 1.6 0.4 1.5 0.4 | 04 | 01:14 07:24 QUI 13:34 ○ 19:45 | 1.7 0.2 1.7 0.2 | 20 | 02:20 08:33 SÁB 14:35 ● 20:36 | 1.5 0.4 1.4 0.4 |
| 05 | 00:41 06:44 DOM 12:54 19:12 | 1.6 0.4 1.8 0.3 | 21 | 01:54 07:57 TER ● 14:07 ○ 20:14 | 1.6 0.4 1.7 0.4 | 05 | 01:32 07:38 QUA 13:49 ○ 20:02 | 1.8 0.2 1.8 0.2 | 21 | 02:32 08:41 SEX 14:46 20:48 | 1.6 0.5 1.5 0.5 | 05 | 02:02 08:14 SEX 14:24 20:32 | 1.7 0.2 1.7 0.2 | 21 | 02:53 09:08 DOM 15:10 21:10 | 1.5 0.4 1.4 0.4 |
| 06 | 01:19 07:21 SEG 13:33 19:49 | 1.7 0.3 1.9 0.2 | 22 | 02:23 08:26 QUA 14:36 20:42 | 1.7 0.4 1.7 0.4 | 06 | 02:15 08:23 QUI 14:35 20:46 | 1.8 0.2 1.8 0.2 | 22 | 03:03 09:14 SÁB 15:19 21:20 | 1.6 0.5 1.5 0.5 | 06 | 02:50 09:06 SÁB 15:15 21:20 | 1.7 0.2 1.6 0.2 | 22 | 03:27 09:44 SEG 15:45 21:46 | 1.5 0.4 1.4 0.4 |
| 07 | 01:57 08:00 TER 14:12 ○ 20:27 | 1.8 0.2 1.9 0.2 | 23 | 02:52 08:56 QUI 15:06 21:10 | 1.6 0.5 1.6 0.5 | 07 | 03:00 09:11 SEX 15:22 21:31 | 1.8 0.2 1.7 0.3 | 23 | 03:36 09:51 DOM 15:54 21:55 | 1.5 0.5 1.4 0.5 | 07 | 03:39 09:58 DOM 16:06 22:09 | 1.7 0.2 1.6 0.3 | 23 | 04:03 10:23 TER 16:23 22:24 | 1.5 0.4 1.4 0.4 |
| 08 | 02:36 08:41 QUA 14:53 21:07 | 1.9 0.2 1.9 0.2 | 24 | 03:21 09:27 SEX 15:35 21:39 | 1.6 0.5 1.6 0.5 | 08 | 03:47 10:02 SÁB 16:12 22:19 | 1.8 0.3 1.6 0.4 | 24 | 04:12 10:31 SEG 16:33 22:34 | 1.5 0.6 1.3 0.6 | 08 | 04:29 10:52 SEG 16:58 23:01 | 1.7 0.3 1.5 0.4 | 24 | 04:42 11:04 QUA 17:05 23:07 | 1.5 0.5 1.4 0.5 |
| 09 | 03:17 09:24 QUI 15:36 21:48 | 1.8 0.2 1.8 0.3 | 25 | 03:51 10:01 SÁB 16:07 22:10 | 1.6 0.6 1.5 0.6 | 09 | 04:38 10:59 DOM 17:08 23:14 | 1.7 0.4 1.5 0.5 | 25 | 04:53 11:18 TER 17:20 23:22 | 1.4 0.6 1.3 0.6 | 09 | 05:22 11:49 TER 17:54 23:55 | 1.6 0.4 1.4 0.5 | 25 | 05:25 11:50 QUI 17:53 23:56 | 1.5 0.5 1.3 0.5 |
| 10 | 04:00 10:10 SEX 16:23 22:34 | 1.8 0.3 1.7 0.4 | 26 | 04:24 10:38 DOM 16:43 22:47 | 1.5 0.6 1.4 0.7 | 10 | 05:35 12:04 SEG 18:13 | 1.6 0.5 1.4 | 26 | 05:44 12:15 QUA 18:19 | 1.4 0.6 1.2 | 10 | 06:18 12:48 QUA 18:54 | 1.5 0.5 1.3 | 26 | 06:14 12:42 SEX 18:49 | 1.4 0.5 1.3 |
| 11 | 04:48 11:03 SÁB 17:15 23:25 | 1.7 0.4 1.6 0.5 | 27 | 05:04 11:26 SEG 17:30 23:36 | 1.4 0.7 1.3 0.7 | 11 | 00:18 06:43 TER 13:20 19:31 | 0.6 1.5 0.6 1.3 | 27 | 00:22 06:47 QUI 13:22 19:33 | 0.7 1.3 0.6 1.2 | 11 | 00:55 07:20 QUI 13:51 (20:00 | 0.6 1.4 0.5 1.2 | 27 | 00:52 07:12 SÁB 13:41) 19:54 | 0.5 1.4 0.5 1.3 |
| 12 | 05:44 12:07 DOM 18:20 | 1.6 0.5 1.4 | 28 | 06:00 12:33 TER 18:42 | 1.3 0.8 1.2 | 12 | 01:36 08:02 QUA 14:42 (20:56 | 0.7 1.4 0.6 1.3 | 28 | 01:34 07:59 SEX 14:33) 20:47 | 0.7 1.3 0.6 1.2 | 12 | 02:02 08:25 SEX 14:57 21:09 | 0.6 1.4 0.6 1.2 | 28 | 01:56 08:16 DOM 14:45 21:02 | 0.6 1.4 0.5 1.3 |
| 13 | 00:31 06:56 SEG 13:32 (19:48 | 0.7 1.5 0.6 1.3 | 29 | 00:47 07:21 QUA 14:04) 20:20 | 0.8 1.3 0.8 1.2 | 13 | 03:00 09:20 QUI 15:57 22:09 | 0.7 1.4 0.6 1.3 | 29 | 02:48 09:08 SÁB 15:38 21:52 | 0.6 1.4 0.5 1.3 | 13 | 03:13 09:31 SÁB 15:59 22:13 | 0.7 1.3 0.6 1.3 | 29 | 03:07 09:25 SEG 15:51 22:10 | 0.5 1.4 0.4 1.3 |
| 14 | 01:59 08:28 TER 15:12 21:29 | 0.7 1.4 0.7 1.3 | 30 | 02:21 08:52 QUI 15:31 21:43 | 0.8 1.3 0.7 1.3 | 14 | 04:12 10:25 SEX 16:54 23:04 | 0.6 1.4 0.5 1.3 | 30 | 03:55 10:09 DOM 16:35 22:48 | 0.6 1.4 0.4 1.4 | 14 | 04:20 10:31 DOM 16:53 23:07 | 0.6 1.3 0.6 1.3 | 30 | 04:18 10:32 TER 16:54 23:12 | 0.5 1.4 0.4 1.4 |
| 15 | 03:37 09:57 QUA 16:35 22:47 | 0.7 1.4 0.6 1.3 | 31 | 03:43 10:02 SEX 16:32 22:41 | 0.7 1.4 0.6 1.4 | 15 | 05:08 11:16 SÁB 17:38 23:47 | 0.6 1.5 0.5 1.4 | 15 | 05:17 11:23 SEG 17:39 23:54 | 0.6 1.3 0.5 1.3 | 15 | 05:25 11:35 QUA 17:53 | 0.4 1.4 0.3 | | | |
| 16 | 04:51 11:02 QUI 17:31 23:39 | 0.7 1.5 0.5 1.4 | | | | 16 | 05:52 11:58 DOM 18:14 | 0.5 1.5 0.5 | 16 | 06:04 12:08 TER 18:19 | 0.6 1.4 0.5 | | | | | | |

PONTA DELGADA



PORTO DE PONTA DELGADA (ILHA DE S. MIGUEL)

NOTAS

1. **ANÁLISE HARMÓNICA:**

— Efetuada a partir de um ano de observações maregráficas de 20 de março de 2008 a 21 de março de 2009.

2. **LOCALIZAÇÃO DO MARÉGRAFO:**

— Na raiz do molhe de Ponta Delgada, junto à rampa do varadouro:
Latitude 37° 44,16' N; Longitude 25° 40,27' W – WGS84.

3. **ALTURAS DE MARÉ:**

— Referidas ao nível do zero hidrográfico.
— Nível médio: 1,00 m.

4. **ZERO HIDROGRÁFICO:**

— 1,00 m abaixo do nível médio adotado (Ponta Delgada, 1991).
— 3,013 m abaixo da marca de nivelamento NP em inox do IGP implantada na borda do cais próxima da respetiva raiz e da rampa de alagem.
— 10,521 m abaixo da marca de nivelamento principal NP370 (IGP) situada na soleira da porta principal da Igreja de S. José.

Porto de Ponta Delgada (Ilha de S. Miguel)

Latitude 37° 44.16' N Longitude 25° 40.27' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JANEIRO | | | | FEVEREIRO | | | | MARÇO | | | | | | | | | | | | | | | |
|-----------|-------|--------|-----------|-----------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | | | | | | | |
| 01 | 03:04 | 1.6 | 17 | 04:27 | 1.6 | 01 | 04:10 | 1.8 | 17 | 04:59 | 1.5 | 01 | 03:07 | 1.8 | 17 | 03:54 | 1.6 | | | | | | |
| | 09:24 | 0.4 | | 10:45 | 0.4 | | 10:30 | 0.2 | | 11:10 | 0.5 | | 09:26 | 0.1 | | 10:02 | 0.4 | | | | | | |
| | 15:26 | 1.5 | | SEX | 16:46 | | 1.4 | SÁB | | 16:35 | 1.6 | | SEG | 17:13 | | 1.4 | SÁB | 15:31 | 1.7 | SEG | 16:08 | 1.5 | |
| | 21:28 | 0.3 | | 22:46 | 0.4 | | 22:37 | 0.3 | | 23:16 | 0.5 | | 21:35 | 0.1 | | 22:13 | 0.4 | | | | | | |
| 02 | 03:44 | 1.7 | 18 | 05:04 | 1.6 | 02 | 04:52 | 1.7 | 18 | 05:31 | 1.4 | 02 | 03:48 | 1.8 | 18 | 04:23 | 1.5 | | | | | | |
| | 10:06 | 0.3 | | 11:21 | 0.4 | | 11:13 | 0.3 | | 11:42 | 0.5 | | 10:05 | 0.1 | | 10:30 | 0.4 | | | | | | |
| | QUI | 16:08 | | 1.5 | SÁB | | 17:22 | 1.4 | | DOM | 17:19 | | 1.6 | TER | | 17:47 | 1.3 | DOM | 16:12 | 1.7 | TER | 16:37 | 1.4 |
| | 22:10 | 0.3 | | 23:21 | 0.5 | | 23:21 | 0.3 | | 23:51 | 0.6 | | 22:17 | 0.2 | | 22:43 | 0.5 | | | | | | |
| 03 | 04:27 | 1.7 | 19 | 05:40 | 1.5 | 03 | 05:37 | 1.7 | 19 | 06:08 | 1.3 | 03 | 04:30 | 1.8 | 19 | 04:54 | 1.4 | | | | | | |
| | 10:50 | 0.3 | | 11:57 | 0.5 | | 11:58 | 0.3 | | 12:19 | 0.6 | | 10:46 | 0.2 | | 11:00 | 0.5 | | | | | | |
| | SEX | 16:54 | | 1.5 | DOM | | 17:59 | 1.3 | | SEG | 18:06 | | 1.5 | QUA | | 18:28 | 1.2 | SEG | 16:54 | 1.6 | QUA | 17:08 | 1.4 |
| | 22:54 | 0.4 | | 23:59 | 0.6 | | 23:59 | 0.6 | | 23:00 | 0.3 | | 23:00 | 0.3 | | 23:17 | 0.6 | | | | | | |
| 04 | 05:12 | 1.6 | 20 | 06:20 | 1.4 | 04 | 00:10 | 0.4 | 20 | 00:37 | 0.7 | 04 | 05:14 | 1.7 | 20 | 05:28 | 1.3 | | | | | | |
| | 11:38 | 0.4 | | 12:37 | 0.6 | | 06:27 | 1.5 | | 06:54 | 1.2 | | 11:30 | 0.3 | | 11:33 | 0.6 | | | | | | |
| | SÁB | 17:42 | | 1.4 | SEG | | 18:42 | 1.3 | | TER | 12:49 | | 0.4 | QUI | | 13:09 | 0.7 | TER | 17:40 | 1.5 | QUI | 17:45 | 1.3 |
| | 23:43 | 0.4 | | 23:43 | 0.4 | | 19:01 | 1.4 | | QUI | 19:27 | | 1.2 | 23:49 | | 0.4 | | | | | | | |
| 05 | 06:02 | 1.6 | 21 | 00:43 | 0.6 | 05 | 01:09 | 0.5 | 21 | 01:48 | 0.8 | 05 | 06:04 | 1.5 | 21 | 00:00 | 0.7 | | | | | | |
| | 12:29 | 0.4 | | 07:05 | 1.3 | | 07:26 | 1.4 | | 08:07 | 1.1 | | 12:18 | 0.5 | | 06:11 | 1.2 | | | | | | |
| | DOM | 18:36 | | 1.4 | TER | | 13:26 | 0.6 | | QUA | 13:51 | | 0.6 | SEX | | 14:27 | 0.8 | QUA | 18:34 | 1.4 | SEX | 12:17 | 0.7 |
| | | | | ((| 19:35 | | 1.2 |) | | 20:10 | 1.3 | |) | 21:02 | | 1.1 | | | | 18:38 | 1.2 | | |
| 06 | 00:37 | 0.5 | 22 | 01:42 | 0.7 | 06 | 02:26 | 0.6 | 22 | 03:41 | 0.8 | 06 | 00:50 | 0.5 | 22 | 01:06 | 0.7 | | | | | | |
| | 06:56 | 1.5 | | 08:04 | 1.2 | | 08:43 | 1.3 | | 09:53 | 1.1 | | 07:05 | 1.3 | | 07:20 | 1.1 | | | | | | |
| | SEG | 13:26 | | 0.5 | QUA | | 14:27 | 0.7 | | QUI | 15:12 | | 0.6 | SÁB | | 16:10 | 0.8 | QUI | 13:21 | 0.6 | SÁB | 13:29 | 0.8 |
| |) | 19:36 | | 1.4 | 20:47 | | 1.2 | 21:37 | | 1.3 | SÁB | | 22:41 | 1.2 | |) | 19:46 | 1.3 | ((| 20:07 | 1.2 | | |
| 07 | 01:40 | 0.6 | 23 | 03:01 | 0.8 | 07 | 04:04 | 0.7 | 23 | 05:14 | 0.7 | 07 | 02:17 | 0.6 | 23 | 03:01 | 0.8 | | | | | | |
| | 07:59 | 1.4 | | 09:19 | 1.2 | | 10:16 | 1.2 | | 11:18 | 1.2 | | 08:33 | 1.2 | | 09:14 | 1.1 | | | | | | |
| | TER | 14:30 | | 0.5 | QUI | | 15:43 | 0.7 | | SEX | 16:42 | | 0.6 | DOM | | 17:26 | 0.7 | SEX | 14:55 | 0.7 | DOM | 15:24 | 0.8 |
| | 20:45 | 1.3 | | 22:10 | 1.2 | | 23:03 | 1.3 | | 23:45 | 1.3 | | 21:25 | 1.3 | | 21:56 | 1.2 | | | | | | |
| 08 | 02:54 | 0.6 | 24 | 04:29 | 0.7 | 08 | 05:33 | 0.6 | 24 | 06:11 | 0.6 | 08 | 04:10 | 0.7 | 24 | 04:40 | 0.7 | | | | | | |
| | 09:09 | 1.4 | | 10:37 | 1.2 | | 11:39 | 1.3 | | 12:13 | 1.3 | | 10:23 | 1.2 | | 10:47 | 1.2 | | | | | | |
| | QUA | 15:41 | | 0.5 | SEX | | 16:55 | 0.7 | | SÁB | 17:54 | | 0.6 | SEG | | 18:17 | 0.6 | SÁB | 16:39 | 0.7 | SEG | 16:51 | 0.7 |
| | 21:59 | 1.3 | | 23:20 | 1.2 | | | | | | | | 22:57 | 1.3 | | 23:08 | 1.3 | | | | | | |
| 09 | 04:13 | 0.6 | 25 | 05:38 | 0.7 | 09 | 00:09 | 1.4 | 25 | 00:31 | 1.4 | 09 | 05:36 | 0.6 | 25 | 05:39 | 0.6 | | | | | | |
| | 10:24 | 1.4 | | 11:41 | 1.2 | | 06:36 | 0.5 | | 06:54 | 0.5 | | 11:44 | 1.2 | | 11:45 | 1.3 | | | | | | |
| | QUI | 16:51 | | 0.5 | SÁB | | 17:53 | 0.6 | | DOM | 12:40 | | 1.3 | TER | | 12:57 | 1.4 | DOM | 17:50 | 0.6 | TER | 17:47 | 0.6 |
| | 23:09 | 1.4 | | | | | 18:48 | 0.5 | | 19:00 | 0.4 | | 23:58 | 1.5 | | | | | | | | | |
| 10 | 05:26 | 0.5 | 26 | 00:12 | 1.3 | 10 | 01:00 | 1.5 | 26 | 01:11 | 1.6 | 10 | 00:00 | 1.4 | 26 | 06:23 | 0.4 | | | | | | |
| | 11:33 | 1.4 | | 06:31 | 0.6 | | 07:24 | 0.4 | | 07:32 | 0.4 | | 06:31 | 0.5 | | 12:29 | 1.4 | | | | | | |
| | SEX | 17:54 | | 0.5 | DOM | | 12:32 | 1.3 | | SEG | 13:26 | | 1.4 | QUA | | 13:36 | 1.5 | SEG | 12:35 | 1.3 | QUA | 18:31 | 0.4 |
| | | | | 18:39 | 0.5 | | 19:31 | 0.4 | | 19:39 | 0.3 | | 18:38 | 0.5 | | | | | | | | | |
| 11 | 00:10 | 1.5 | 27 | 00:55 | 1.4 | 11 | 01:42 | 1.6 | 27 | 01:50 | 1.7 | 11 | 00:46 | 1.5 | 27 | 00:41 | 1.6 | | | | | | |
| | 06:29 | 0.5 | | 07:14 | 0.5 | | 08:03 | 0.4 | | 08:10 | 0.2 | | 07:11 | 0.4 | | 07:03 | 0.3 | | | | | | |
| | SÁB | 12:34 | | 1.4 | SEG | | 13:15 | 1.4 | | TER | 14:05 | | 1.5 | TER | | 13:13 | 1.4 | QUI | 13:09 | 1.6 | | | |
| | 18:48 | 0.4 | | 19:19 | 0.5 | | 20:08 | 0.4 | | 20:17 | 0.2 | | 19:16 | 0.4 | | 19:12 | 0.3 | | | | | | |
| 12 | 01:03 | 1.6 | 28 | 01:34 | 1.5 | 12 | 02:19 | 1.7 | 28 | 02:28 | 1.8 | 12 | 01:23 | 1.6 | 28 | 01:21 | 1.7 | | | | | | |
| | 07:23 | 0.4 | | 07:53 | 0.4 | | 08:38 | 0.3 | | 08:47 | 0.2 | | 07:43 | 0.4 | | 07:41 | 0.2 | | | | | | |
| | DOM | 13:27 | | 1.5 | TER | | 13:55 | 1.5 | | QUA | 14:39 | | 1.5 | QUA | | 13:46 | 1.5 | SEX | 13:48 | 1.7 | | | |
| | 19:36 | 0.4 | | 19:58 | 0.4 | | ○ | 20:42 | | 0.3 | ● | | 20:56 | 0.2 | | 19:48 | 0.4 | 19:52 | 0.2 | | | | |
| 13 | 01:50 | 1.6 | 29 | 02:11 | 1.6 | 13 | 02:53 | 1.7 | 29 | 03:28 | 1.8 | 13 | 01:56 | 1.6 | 29 | 02:01 | 1.8 | | | | | | |
| | 08:10 | 0.3 | | 08:32 | 0.3 | | 09:10 | 0.3 | | 08:13 | 0.3 | | 08:20 | 0.1 | | | | | | | | | |
| | SEG | 14:13 | | 1.5 | QUA | | 14:34 | 1.5 | | QUI | 15:12 | | 1.5 | QUI | | 14:16 | 1.5 | SÁB | 14:27 | 1.8 | | | |
| | ○ | 20:19 | | 0.3 | ● | | 20:36 | 0.3 | | 21:14 | 0.3 | | ○ | 20:19 | | 0.3 | ● | 20:32 | 0.1 | | | | |
| 14 | 02:32 | 1.7 | 30 | 02:50 | 1.7 | 14 | 03:26 | 1.7 | 30 | 03:57 | 1.7 | 14 | 02:27 | 1.7 | 30 | 02:42 | 1.9 | | | | | | |
| | 08:53 | 0.3 | | 09:10 | 0.3 | | 09:41 | 0.3 | | 08:41 | 0.3 | | 08:59 | 0.1 | | | | | | | | | |
| | TER | 14:55 | | 1.5 | QUI | | 15:13 | 1.6 | | SEX | 15:43 | | 1.5 | 14:45 | | 1.6 | DOM | 15:08 | 1.8 | | | | |
| | 20:58 | 0.3 | | 21:15 | 0.2 | | 21:44 | 0.3 | | ○ | 20:48 | | 0.3 | 21:14 | | 0.1 | | | | | | | |
| 15 | 03:13 | 1.7 | 31 | 03:29 | 1.8 | 15 | 03:57 | 1.7 | 31 | 04:28 | 1.6 | 15 | 02:57 | 1.7 | 31 | 03:25 | 1.8 | | | | | | |
| | 09:32 | 0.3 | | 09:50 | 0.2 | | 10:10 | 0.3 | | 09:08 | 0.3 | | 09:40 | 0.1 | | | | | | | | | |
| | QUA | 15:34 | | 1.5 | SEX | | 15:53 | 1.6 | | SÁB | 16:13 | | 1.5 | SÁB | | 15:13 | 1.6 | SEG | 15:49 | 1.8 | | | |
| | 21:35 | 0.3 | | 21:55 | 0.2 | | 22:14 | 0.4 | | 21:16 | 0.3 | | 21:58 | 0.2 | | | | | | | | | |
| 16 | 03:51 | 1.7 | 16 | 04:28 | 1.6 | 16 | 04:28 | 1.6 | 16 | 03:26 | 1.6 | 16 | 03:26 | 1.6 | 16 | 03:25 | 1.8 | | | | | | |
| | 10:10 | 0.3 | | 10:40 | 0.4 | | 10:40 | 0.4 | | 09:35 | 0.3 | | 09:40 | 0.1 | | | | | | | | | |
| | QUI | 16:11 | | 1.5 | DOM | | 16:42 | 1.5 | | 15:40 | 1.5 | | 15:49 | 1.8 | | | | | | | | | |
| | 22:11 | 0.4 | | 22:44 | 0.4 | | 22:44 | 0.4 | | 21:44 | 0.4 | | 21:58 | 0.2 | | | | | | | | | |

Porto de Ponta Delgada (Ilha de S. Miguel)

Latitude 37° 44.16' N Longitude 25° 40.27' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JULHO | | | | AGOSTO | | | | SETEMBRO | | | | | | | | | | | | | | | |
|-----------|-------|--------|-----------|--------|--------|-----------|--------|----------|-----------|-------|--------|-----------|-------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | | | | | | | |
| 01 | 00:35 | 0.5 | 17 | 00:49 | 0.4 | 01 | 01:08 | 0.6 | 17 | 02:27 | 0.6 | 01 | 02:16 | 0.8 | 17 | 05:16 | 0.6 | | | | | | |
| | 06:39 | 1.3 | | 06:59 | 1.4 | | 07:19 | 1.2 | | 08:53 | 1.3 | | 08:55 | 1.1 | | 11:29 | 1.4 | | | | | | |
| | TER | 12:38 | | 0.6 | QUI | | 13:03 | 0.5 | | SEX | 13:26 | | 0.7 | DOM | | 15:19 | 0.6 | SEG | 15:35 | 0.8 | QUA | 18:00 | 0.5 |
| | | 19:00 | | 1.4 | | | 19:20 | 1.5 | |) | 19:46 | | 1.2 | | | 21:32 | 1.3 | | 21:45 | 1.1 | | | |
| 02 | 01:25 | 0.6 | 18 | 01:47 | 0.5 | 02 | 02:05 | 0.7 | 18 | 03:57 | 0.6 | 02 | 03:59 | 0.8 | 18 | 00:06 | 1.3 | | | | | | |
| | 07:31 | 1.2 | | 08:02 | 1.4 | | 08:26 | 1.2 | | 10:21 | 1.3 | | 10:31 | 1.2 | | 06:09 | 0.5 | | | | | | |
| | QUA | 13:33 | | 0.6 | SEX | | 14:09 | 0.6 | | SÁB | 14:42 | | 0.8 | SEG | | 16:53 | 0.6 | TER | 17:04 | 0.7 | QUI | 12:18 | 1.5 |
| |) | 19:54 | | 1.3 | (| | 20:24 | 1.4 | | | 20:58 | | 1.2 | | | 23:01 | 1.3 | | 23:07 | 1.2 | | 18:44 | 0.4 |
| 03 | 02:18 | 0.6 | 19 | 02:53 | 0.5 | 03 | 03:19 | 0.7 | 19 | 05:17 | 0.6 | 03 | 05:12 | 0.7 | 19 | 00:47 | 1.4 | | | | | | |
| | 08:31 | 1.2 | | 09:13 | 1.3 | | 09:49 | 1.2 | | 11:35 | 1.4 | | 11:33 | 1.3 | | 06:50 | 0.4 | | | | | | |
| | QUI | 14:36 | | 0.7 | SÁB | | 15:26 | 0.6 | | DOM | 16:11 | | 0.8 | TER | | 18:04 | 0.5 | QUA | 17:58 | 0.6 | SEX | 12:58 | 1.6 |
| | | 20:54 | | 1.3 | | | 21:38 | 1.4 | | | 22:19 | | 1.2 | | | | | | | | | 19:19 | 0.3 |
| 04 | 03:17 | 0.6 | 20 | 04:05 | 0.5 | 04 | 04:36 | 0.7 | 20 | 00:08 | 1.3 | 04 | 00:00 | 1.3 | 20 | 01:22 | 1.5 | | | | | | |
| | 09:36 | 1.2 | | 10:27 | 1.4 | | 11:03 | 1.2 | | 06:18 | 0.5 | | 06:02 | 0.6 | | 07:25 | 0.4 | | | | | | |
| | SEX | 15:46 | | 0.7 | DOM | | 16:45 | 0.6 | | SEG | 17:25 | | 0.7 | QUA | | 12:30 | 1.5 | QUI | 12:16 | 1.4 | SÁB | 13:33 | 1.7 |
| | | 21:57 | | 1.3 | | | 22:54 | 1.4 | | | 23:28 | | 1.2 | | | 18:56 | 0.4 | | 18:38 | 0.5 | | 19:51 | 0.3 |
| 05 | 04:17 | 0.6 | 21 | 05:16 | 0.5 | 05 | 05:37 | 0.7 | 21 | 00:59 | 1.4 | 05 | 00:40 | 1.4 | 21 | 01:54 | 1.5 | | | | | | |
| | 10:39 | 1.2 | | 11:35 | 1.4 | | 11:59 | 1.3 | | 07:05 | 0.4 | | 06:41 | 0.5 | | 07:57 | 0.3 | | | | | | |
| | SÁB | 16:51 | | 0.7 | SEG | | 17:56 | 0.5 | | TER | 18:19 | | 0.6 | QUI | | 13:16 | 1.6 | SEX | 12:53 | 1.5 | DOM | 14:06 | 1.7 |
| | | 22:57 | | 1.3 | | | | | | | | | | 19:39 | | 0.3 | | 19:14 | 0.4 | | ● | 20:21 | 0.3 |
| 06 | 05:13 | 0.6 | 22 | 00:02 | 1.4 | 06 | 00:20 | 1.3 | 22 | 01:41 | 1.5 | 06 | 01:16 | 1.5 | 22 | 02:25 | 1.6 | | | | | | |
| | 11:34 | 1.3 | | 06:17 | 0.5 | | 06:25 | 0.6 | | 07:45 | 0.4 | | 07:18 | 0.4 | | 08:28 | 0.3 | | | | | | |
| | DOM | 17:48 | | 0.6 | TER | | 12:33 | 1.5 | | QUA | 12:42 | | 1.4 | SEX | | 13:56 | 1.7 | SÁB | 13:29 | 1.6 | SEG | 14:37 | 1.7 |
| | | 23:51 | | 1.3 | | | 18:55 | 0.4 | | | 19:02 | | 0.5 | | | 20:16 | 0.3 | | 19:48 | 0.3 | | 20:49 | 0.3 |
| 07 | 06:02 | 0.6 | 23 | 01:00 | 1.4 | 07 | 01:02 | 1.3 | 23 | 02:19 | 1.5 | 07 | 01:52 | 1.6 | 23 | 02:54 | 1.6 | | | | | | |
| | 12:20 | 1.3 | | 07:10 | 0.4 | | 07:05 | 0.5 | | 08:21 | 0.3 | | 07:54 | 0.3 | | 08:57 | 0.3 | | | | | | |
| | SEG | 18:35 | | 0.6 | QUA | | 13:24 | 1.6 | | QUI | 13:19 | | 1.5 | SÁB | | 14:32 | 1.7 | DOM | 14:05 | 1.7 | TER | 15:07 | 1.6 |
| | | | | | | | 19:47 | 0.3 | | | 19:40 | | 0.5 | | | ● | 20:51 | 0.3 | | ○ | 20:23 | 0.2 | |
| 08 | 00:37 | 1.3 | 24 | 01:51 | 1.5 | 08 | 01:40 | 1.4 | 24 | 02:53 | 1.6 | 08 | 02:28 | 1.6 | 24 | 03:23 | 1.5 | | | | | | |
| | 06:44 | 0.5 | | 07:57 | 0.4 | | 07:42 | 0.4 | | 08:55 | 0.3 | | 08:31 | 0.2 | | 09:27 | 0.4 | | | | | | |
| | TER | 13:01 | | 1.4 | QUI | | 14:10 | 1.7 | | SEX | 13:55 | | 1.6 | DOM | | 15:07 | 1.7 | SEG | 14:42 | 1.8 | QUA | 15:37 | 1.6 |
| | | 19:17 | | 0.5 | ● | | 20:33 | 0.3 | | | 20:15 | | 0.4 | | | 21:23 | 0.3 | | 21:00 | 0.2 | | 21:45 | 0.4 |
| 09 | 01:18 | 1.4 | 25 | 02:36 | 1.5 | 09 | 02:17 | 1.5 | 25 | 03:26 | 1.6 | 09 | 03:05 | 1.7 | 25 | 03:52 | 1.5 | | | | | | |
| | 07:23 | 0.5 | | 08:40 | 0.3 | | 08:18 | 0.3 | | 09:27 | 0.3 | | 09:09 | 0.2 | | 09:56 | 0.4 | | | | | | |
| | QUA | 13:38 | | 1.5 | SEX | | 14:53 | 1.7 | | SÁB | 14:31 | | 1.7 | SEG | | 15:40 | 1.7 | TER | 15:21 | 1.8 | QUI | 16:07 | 1.5 |
| | | 19:56 | | 0.5 | | | 21:15 | 0.3 | | | 20:51 | | 0.3 | | | 21:54 | 0.3 | | 21:38 | 0.2 | | 22:14 | 0.4 |
| 10 | 01:57 | 1.4 | 26 | 03:17 | 1.5 | 10 | 02:53 | 1.5 | 26 | 03:57 | 1.5 | 10 | 03:44 | 1.7 | 26 | 04:22 | 1.4 | | | | | | |
| | 08:00 | 0.5 | | 09:19 | 0.3 | | 08:55 | 0.3 | | 09:59 | 0.4 | | 09:49 | 0.2 | | 10:28 | 0.5 | | | | | | |
| | QUI | 14:15 | | 1.5 | SÁB | | 15:33 | 1.7 | | DOM | 15:08 | | 1.7 | TER | | 16:12 | 1.6 | QUA | 16:01 | 1.8 | SEX | 16:38 | 1.4 |
| | | 20:34 | | 0.4 | | | 21:54 | 0.3 | | | 21:28 | | 0.3 | | | 22:25 | 0.4 | | 22:18 | 0.2 | | 22:44 | 0.5 |
| 11 | 02:35 | 1.4 | 27 | 03:56 | 1.5 | 11 | 03:31 | 1.6 | 27 | 04:28 | 1.5 | 11 | 04:26 | 1.7 | 27 | 04:54 | 1.4 | | | | | | |
| | 08:36 | 0.4 | | 09:57 | 0.3 | | 09:33 | 0.3 | | 10:30 | 0.4 | | 10:32 | 0.3 | | 11:03 | 0.6 | | | | | | |
| | SEX | 14:51 | | 1.6 | DOM | | 16:12 | 1.7 | | SEG | 15:46 | | 1.7 | QUA | | 16:44 | 1.5 | QUI | 16:45 | 1.7 | SÁB | 17:13 | 1.3 |
| | | 21:11 | | 0.4 | | | 22:31 | 0.3 | | | 22:06 | | 0.2 | | | 22:55 | 0.4 | | 23:00 | 0.3 | | 23:18 | 0.6 |
| 12 | 03:13 | 1.5 | 28 | 04:33 | 1.5 | 12 | 04:10 | 1.6 | 28 | 05:00 | 1.4 | 12 | 05:11 | 1.6 | 28 | 05:33 | 1.3 | | | | | | |
| | 09:14 | 0.4 | | 10:33 | 0.4 | | 10:12 | 0.3 | | 11:03 | 0.5 | | 11:20 | 0.4 | | 11:48 | 0.7 | | | | | | |
| | SÁB | 15:28 | | 1.6 | SEG | | 16:50 | 1.6 | | TER | 16:26 | | 1.7 | QUI | | 17:18 | 1.4 | SEX | 17:33 | 1.5 | DOM | 17:58 | 1.2 |
| | | 21:50 | | 0.4 | | | 23:08 | 0.4 | | | 22:46 | | 0.3 | | | 23:28 | 0.5 | | 23:48 | 0.4 | | | |
| 13 | 03:52 | 1.5 | 29 | 05:10 | 1.4 | 13 | 04:52 | 1.6 | 29 | 05:35 | 1.3 | 13 | 06:04 | 1.5 | 29 | 00:04 | 0.7 | | | | | | |
| | 09:52 | 0.4 | | 11:10 | 0.5 | | 10:54 | 0.3 | | 11:40 | 0.6 | | 12:19 | 0.5 | | 06:28 | 1.2 | | | | | | |
| | DOM | 16:08 | | 1.6 | TER | | 17:27 | 1.5 | | QUA | 17:09 | | 1.7 | SEX | | 17:55 | 1.3 | SEG | 13:00 | 0.8 | | | |
| | | 22:30 | | 0.4 | | | 23:44 | 0.5 | | | 23:29 | | 0.3 | | | | | SÁB | 18:33 | 1.4 |) | 19:12 | 1.1 |
| 14 | 04:33 | 1.5 | 30 | 05:47 | 1.4 | 14 | 05:37 | 1.5 | 30 | 00:06 | 0.6 | 14 | 00:48 | 0.6 | 30 | 01:20 | 0.8 | | | | | | |
| | 10:34 | 0.4 | | 11:48 | 0.5 | | 11:41 | 0.4 | | 06:17 | 1.2 | | 07:12 | 1.4 | | 08:02 | 1.2 | | | | | | |
| | SEG | 16:50 | | 1.6 | QUA | | 18:06 | 1.4 | | QUI | 17:56 | | 1.6 | SÁB | | 12:27 | 0.7 | DOM | 13:41 | 0.6 | TER | 14:58 | 0.8 |
| | | 23:13 | | 0.4 | | | | | | | | | | 18:43 | | 1.2 | | (| 19:55 | 1.2 | | 21:08 | 1.1 |
| 15 | 05:17 | 1.5 | 31 | 00:23 | 0.5 | 15 | 00:16 | 0.4 | 31 | 00:56 | 0.7 | 15 | 02:15 | 0.7 | 15 | 03:59 | 0.7 | | | | | | |
| | 11:18 | 0.4 | | 06:28 | 1.3 | | 06:28 | 1.4 | | 07:17 | 1.2 | | 08:45 | 1.3 | | 10:20 | 1.3 | | | | | | |
| | TER | 17:35 | | 1.6 | QUI | | 12:31 | 0.6 | | SEX | 12:36 | | 0.5 | DOM | | 13:42 | 0.8 | SEG | 15:29 | 0.6 | TER | 17:00 | 0.6 |
| | | 23:59 | | 0.4 | | | 18:51 | 1.3 | | | 18:51 | | 1.4 | | |) | 19:58 | 1.1 | | 21:41 | 1.2 | | 23:09 |
| 16 | 06:05 | 1.4 | | 01:13 | 0.5 | 16 | 01:13 | 0.5 | | 03:59 | 0.7 | 16 | 03:59 | 0.7 | | 06:05 | 1.4 | | | | | | |
| | 12:07 | 0.5 | | (| 20:02 | | 1.3 | | | 07:31 | 1.4 | | | 10:20 | | 1.3 | | 12:07 | 0.5 | | | | |
| | 18:24 | 1.5 | | | | | 13:46 | 0.6 | | | | | 17:00 | 0.6 | | | | | | | | | |

Porto de Ponta Delgada (Ilha de S. Miguel)

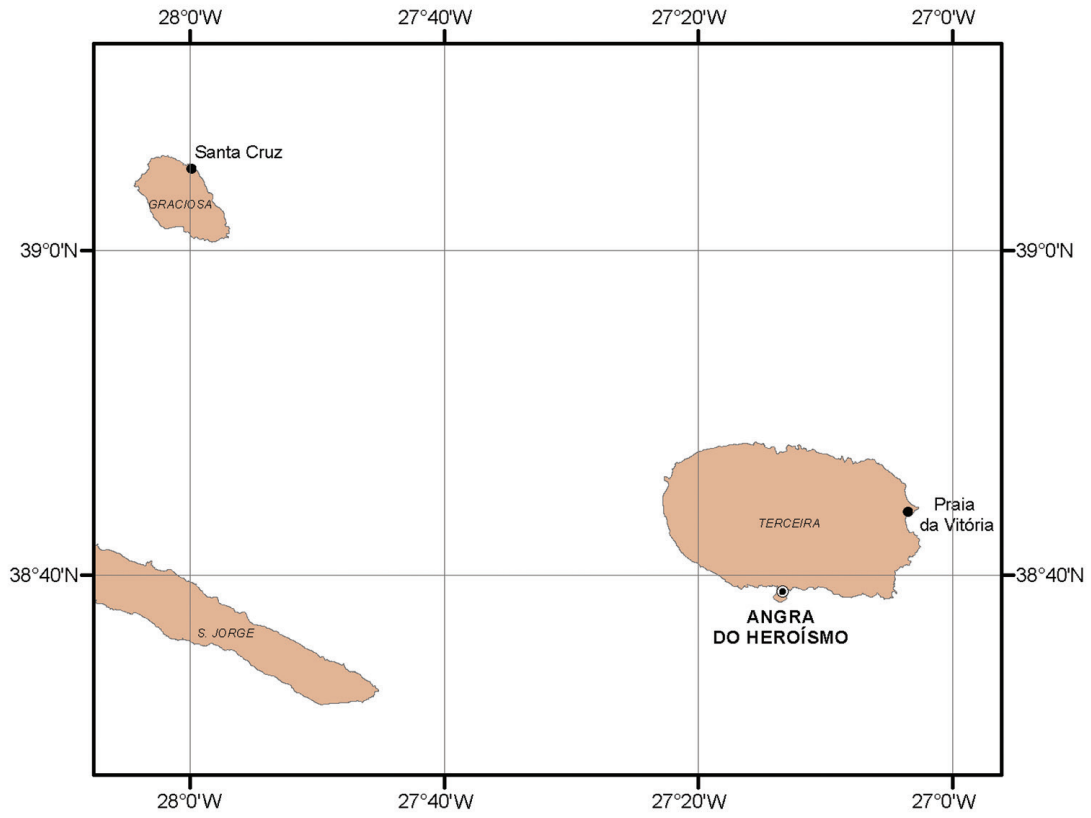
Latitude 37° 44.16' N Longitude 25° 40.27' W

Horas do Fuso: 0 (TU)

Ano: 2025

| OUTUBRO | | | | | NOVEMBRO | | | | | DEZEMBRO | | | | | | | |
|-----------|-------|--------|-----------|--------|----------|-----------|-------|--------|-----------|----------|------|-----------|-------|--------|-----------|-------|-----|
| | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | |
| 01 | 03:15 | 0.8 | 17 | 05:46 | 0.5 | 01 | 04:47 | 0.6 | 17 | 00:27 | 1.4 | 01 | 04:57 | 0.5 | 17 | 00:37 | 1.4 |
| | 09:48 | 1.2 | | 11:53 | 1.5 | | 10:57 | 1.4 | | 06:33 | 0.5 | | 11:05 | 1.5 | | 06:48 | 0.6 |
| | 16:30 | 0.7 | SEX | 18:18 | 0.4 | SÁB | 17:23 | 0.4 | SEG | 12:37 | 1.5 | SEG | 17:29 | 0.4 | QUA | 12:49 | 1.4 |
| | 22:36 | 1.2 | | | | | 23:32 | 1.4 | | 18:50 | 0.4 | | 23:42 | 1.5 | | 18:58 | 0.5 |
| 02 | 04:37 | 0.7 | 18 | 00:23 | 1.4 | 02 | 05:34 | 0.5 | 18 | 01:00 | 1.5 | 02 | 05:49 | 0.4 | 18 | 01:14 | 1.4 |
| | 10:54 | 1.3 | | 06:26 | 0.5 | | 11:42 | 1.6 | | 07:07 | 0.5 | | 11:56 | 1.6 | | 07:26 | 0.5 |
| | 17:24 | 0.6 | SÁB | 12:32 | 1.5 | DOM | 18:04 | 0.3 | TER | 13:11 | 1.5 | TER | 18:16 | 0.3 | QUI | 13:27 | 1.4 |
| | 23:29 | 1.3 | | 18:51 | 0.4 | | | | | 19:21 | 0.4 | | | | | 19:33 | 0.5 |
| 03 | 05:29 | 0.6 | 19 | 00:56 | 1.5 | 03 | 00:14 | 1.5 | 19 | 01:32 | 1.5 | 03 | 00:30 | 1.6 | 19 | 01:48 | 1.5 |
| | 11:40 | 1.4 | | 07:00 | 0.4 | | 06:17 | 0.4 | | 07:40 | 0.4 | | 06:39 | 0.3 | | 08:01 | 0.5 |
| | 18:04 | 0.5 | DOM | 13:06 | 1.6 | SEG | 12:25 | 1.7 | QUA | 13:44 | 1.5 | QUA | 12:47 | 1.6 | SEX | 14:03 | 1.4 |
| | | | | 19:21 | 0.3 | | 18:44 | 0.2 | | 19:51 | 0.4 | | 19:03 | 0.2 | | 20:07 | 0.4 |
| 04 | 00:09 | 1.4 | 20 | 01:27 | 1.5 | 04 | 00:54 | 1.7 | 20 | 02:03 | 1.5 | 04 | 01:17 | 1.7 | 20 | 02:22 | 1.5 |
| | 06:10 | 0.5 | | 07:31 | 0.4 | | 07:00 | 0.3 | | 08:12 | 0.4 | | 07:29 | 0.3 | | 08:37 | 0.5 |
| | 12:20 | 1.6 | SEG | 13:37 | 1.6 | TER | 13:08 | 1.7 | QUI | 14:16 | 1.5 | QUI | 13:37 | 1.7 | SÁB | 14:38 | 1.4 |
| | 18:41 | 0.3 | | 19:49 | 0.3 | | 19:25 | 0.2 | ● | 20:21 | 0.4 | ○ | 19:50 | 0.2 | ● | 20:40 | 0.4 |
| 05 | 00:46 | 1.5 | 21 | 01:56 | 1.6 | 05 | 01:36 | 1.7 | 21 | 02:34 | 1.5 | 05 | 02:04 | 1.7 | 21 | 02:55 | 1.5 |
| | 06:48 | 0.3 | | 08:01 | 0.4 | | 07:43 | 0.2 | | 08:45 | 0.4 | | 08:19 | 0.2 | | 09:12 | 0.4 |
| | 12:57 | 1.7 | TER | 14:08 | 1.6 | QUA | 13:52 | 1.8 | SEX | 14:49 | 1.5 | SEX | 14:27 | 1.7 | DOM | 15:13 | 1.4 |
| | 19:17 | 0.2 | ● | 20:17 | 0.3 | ○ | 20:07 | 0.1 | | 20:52 | 0.4 | | 20:37 | 0.2 | | 21:14 | 0.4 |
| 06 | 01:23 | 1.6 | 22 | 02:25 | 1.6 | 06 | 02:18 | 1.8 | 22 | 03:06 | 1.5 | 06 | 02:52 | 1.8 | 22 | 03:29 | 1.5 |
| | 07:26 | 0.2 | | 08:31 | 0.4 | | 08:28 | 0.2 | | 09:19 | 0.5 | | 09:10 | 0.2 | | 09:48 | 0.4 |
| | 13:35 | 1.8 | QUA | 14:38 | 1.6 | QUI | 14:37 | 1.7 | SÁB | 15:22 | 1.4 | SÁB | 15:17 | 1.6 | SEG | 15:49 | 1.4 |
| | 19:53 | 0.1 | | 20:45 | 0.4 | | 20:50 | 0.2 | | 21:24 | 0.5 | | 21:25 | 0.3 | | 21:49 | 0.4 |
| 07 | 02:01 | 1.7 | 23 | 02:54 | 1.5 | 07 | 03:03 | 1.8 | 23 | 03:39 | 1.5 | 07 | 03:41 | 1.7 | 23 | 04:05 | 1.5 |
| | 08:05 | 0.2 | | 09:01 | 0.4 | | 09:16 | 0.2 | | 09:55 | 0.5 | | 10:03 | 0.3 | | 10:27 | 0.5 |
| | 14:15 | 1.8 | QUI | 15:08 | 1.5 | SEX | 15:25 | 1.7 | DOM | 15:58 | 1.4 | DOM | 16:09 | 1.5 | TER | 16:27 | 1.4 |
| | 20:31 | 0.1 | | 21:13 | 0.4 | | 21:35 | 0.2 | | 21:58 | 0.5 | | 22:14 | 0.3 | | 22:26 | 0.5 |
| 08 | 02:40 | 1.8 | 24 | 03:24 | 1.5 | 08 | 03:50 | 1.7 | 24 | 04:15 | 1.5 | 08 | 04:32 | 1.7 | 24 | 04:45 | 1.5 |
| | 08:46 | 0.1 | | 09:32 | 0.4 | | 10:07 | 0.3 | | 10:35 | 0.5 | | 10:57 | 0.3 | | 11:08 | 0.5 |
| | 14:56 | 1.8 | SEX | 15:39 | 1.5 | SÁB | 16:16 | 1.6 | SEG | 16:37 | 1.3 | SEG | 17:02 | 1.4 | QUA | 17:10 | 1.4 |
| | 21:11 | 0.1 | | 21:43 | 0.4 | | 22:23 | 0.3 | | 22:36 | 0.6 | | 23:04 | 0.4 | | 23:08 | 0.5 |
| 09 | 03:21 | 1.8 | 25 | 03:54 | 1.5 | 09 | 04:41 | 1.6 | 25 | 04:56 | 1.4 | 09 | 05:25 | 1.6 | 25 | 05:28 | 1.5 |
| | 09:29 | 0.2 | | 10:05 | 0.5 | | 11:04 | 0.4 | | 11:22 | 0.6 | | 11:54 | 0.4 | | 11:54 | 0.5 |
| | 15:40 | 1.7 | SÁB | 16:11 | 1.4 | DOM | 17:12 | 1.4 | TER | 17:24 | 1.2 | TER | 17:58 | 1.4 | QUI | 17:58 | 1.3 |
| | 21:53 | 0.2 | | 22:14 | 0.5 | | 23:17 | 0.5 | | 23:22 | 0.6 | | 23:58 | 0.5 | | 23:57 | 0.5 |
| 10 | 04:04 | 1.7 | 26 | 04:28 | 1.4 | 10 | 05:39 | 1.5 | 26 | 05:46 | 1.4 | 10 | 06:21 | 1.5 | 26 | 06:17 | 1.5 |
| | 10:15 | 0.3 | | 10:42 | 0.6 | | 12:11 | 0.5 | | 12:19 | 0.6 | | 12:54 | 0.5 | | 12:46 | 0.5 |
| | 16:26 | 1.6 | DOM | 16:49 | 1.3 | SEG | 18:18 | 1.3 | QUA | 18:23 | 1.2 | QUA | 18:58 | 1.3 | SEX | 18:53 | 1.3 |
| | 22:38 | 0.3 | | 22:49 | 0.6 | | | | | | | | | | | | |
| 11 | 04:52 | 1.6 | 27 | 05:08 | 1.3 | 11 | 00:21 | 0.6 | 27 | 00:21 | 0.7 | 11 | 00:59 | 0.6 | 27 | 00:53 | 0.6 |
| | 11:08 | 0.4 | | 11:30 | 0.7 | | 06:47 | 1.4 | | 06:48 | 1.3 | | 07:22 | 1.4 | | 07:14 | 1.4 |
| | 17:19 | 1.5 | SEG | 17:36 | 1.2 | TER | 13:29 | 0.5 | QUI | 13:28 | 0.6 | QUI | 13:58 | 0.6 | SÁB | 13:45 | 0.5 |
| | 23:29 | 0.5 | | 23:35 | 0.7 | | 19:37 | 1.2 | | 19:35 | 1.2 | ((| 20:04 | 1.2 |)) | 19:56 | 1.3 |
| 12 | 05:49 | 1.5 | 28 | 06:02 | 1.3 | 12 | 01:41 | 0.7 | 28 | 01:34 | 0.7 | 12 | 02:06 | 0.6 | 28 | 01:59 | 0.6 |
| | 12:14 | 0.5 | | 12:38 | 0.7 | | 08:06 | 1.4 | | 07:58 | 1.3 | | 08:28 | 1.4 | | 08:17 | 1.4 |
| | 18:25 | 1.3 | TER | 18:45 | 1.1 | QUA | 14:51 | 0.6 | SEX | 14:39 | 0.6 | SEX | 15:02 | 0.6 | DOM | 14:49 | 0.5 |
| | | | | | | ((| 21:02 | 1.2 |)) | 20:49 | 1.2 | | 21:13 | 1.2 | | 21:05 | 1.3 |
| 13 | 00:34 | 0.6 | 29 | 00:45 | 0.7 | 13 | 03:05 | 0.7 | 29 | 02:51 | 0.7 | 13 | 03:18 | 0.7 | 29 | 03:11 | 0.6 |
| | 07:02 | 1.4 | | 07:21 | 1.2 | | 09:23 | 1.4 | | 09:08 | 1.4 | | 09:33 | 1.3 | | 09:25 | 1.4 |
| | 13:43 | 0.6 | QUA | 14:13 | 0.7 | QUI | 16:03 | 0.6 | SÁB | 15:43 | 0.5 | SÁB | 16:03 | 0.6 | SEG | 15:56 | 0.5 |
| | 19:55 | 1.2 |)) | 20:22 | 1.1 | | 22:14 | 1.2 | | 21:56 | 1.3 | | 22:17 | 1.2 | | 22:14 | 1.4 |
| 14 | 02:07 | 0.7 | 30 | 02:23 | 0.8 | 14 | 04:17 | 0.6 | 30 | 03:59 | 0.6 | 14 | 04:24 | 0.7 | 30 | 04:23 | 0.6 |
| | 08:35 | 1.3 | | 08:52 | 1.3 | | 10:27 | 1.4 | | 10:10 | 1.4 | | 10:32 | 1.3 | | 10:33 | 1.4 |
| | 15:25 | 0.6 | QUI | 15:38 | 0.7 | SEX | 16:58 | 0.5 | DOM | 16:39 | 0.5 | DOM | 16:56 | 0.6 | TER | 16:59 | 0.5 |
| | 21:37 | 1.2 | | 21:47 | 1.2 | | 23:08 | 1.3 | | 22:52 | 1.4 | | 23:11 | 1.3 | | 23:17 | 1.4 |
| 15 | 03:45 | 0.7 | 31 | 03:47 | 0.7 | 15 | 05:11 | 0.6 | 15 | 05:20 | 0.6 | 15 | 05:20 | 0.6 | 31 | 05:30 | 0.5 |
| | 10:02 | 1.4 | | 10:04 | 1.3 | | 11:18 | 1.4 | | 11:24 | 1.3 | | 11:24 | 1.3 | | 11:37 | 1.5 |
| | 16:43 | 0.5 | SEX | 16:37 | 0.6 | SÁB | 17:41 | 0.5 | SEG | 17:42 | 0.6 | SEG | 17:42 | 0.6 | QUA | 17:58 | 0.4 |
| | 22:54 | 1.3 | | 22:46 | 1.3 | | 23:51 | 1.4 | | 23:57 | 1.3 | | 23:57 | 1.3 | | | |
| 16 | 04:56 | 0.6 | | | | 16 | 05:55 | 0.5 | 16 | 06:07 | 0.6 | 16 | 06:07 | 0.6 | | | |
| | 11:06 | 1.4 | | | | | 12:00 | 1.5 | | 12:09 | 1.4 | | 12:09 | 1.4 | | | |
| | 17:37 | 0.5 | | | | DOM | 18:17 | 0.5 | | 18:22 | 0.5 | | 18:22 | 0.5 | | | |
| | 23:45 | 1.3 | | | | | | | | | | | | | | | |

ANGRA DO HEROÍSMO



PORTO DE ANGRA DO HEROÍSMO (ILHA TERCEIRA)

NOTAS

1. **ANÁLISE HARMÓNICA:**

— Efetuada a partir de um ano de observações maregráficas (1977).

2. **LOCALIZAÇÃO DO MARÉGRAFO:**

— No cais da Figueirinha:

Latitude 38° 38,99' N; Longitude 27° 13,34' W – WGS84.

3. **ALTURAS DE MARÉ:**

— Referidas ao nível do zero hidrográfico.

— Nível médio: 1,00 m.

4. **ZERO HIDROGRÁFICO:**

— 1,00 m abaixo do nível médio adotado (Angra do Heroísmo, 1951).

— 5,385 m abaixo da marca de contacto existente na borda do poço do marégrafo.

— 5,506 m abaixo da marca MN 10/83 situada na base do altar existente em frente da casa do marégrafo.

— 17,032 m abaixo da marca O4 1951 do IGP existente no lado direito da porta principal da Câmara Municipal de Angra do Heroísmo.

Porto de Angra do Heroísmo (Ilha Terceira)

Latitude 38° 38.99' N Longitude 27° 13.34' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JANEIRO | | | | FEVEREIRO | | | | MARÇO | | | | | | | | | | | | | | | |
|-----------|-------|--------|-----------|-----------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-------|-----------|-------|-------|-------|-------|-----|-------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | | | | | | | |
| 01 | 03:07 | 1.6 | 17 | 04:30 | 1.6 | 01 | 04:11 | 1.7 | 17 | 05:03 | 1.5 | 01 | 03:09 | 1.8 | 17 | 03:58 | 1.5 | | | | | | |
| | 09:27 | 0.4 | | 10:48 | 0.4 | | 10:30 | 0.3 | | 11:12 | 0.5 | | 09:26 | 0.2 | | 10:04 | 0.4 | | | | | | |
| | 15:30 | 1.4 | | SEX | 16:46 | | 1.4 | SÁB | | 16:37 | 1.6 | | SEG | 17:16 | | 1.4 | SÁB | 15:33 | 1.7 | SEG | 16:10 | 1.5 | |
| | 21:29 | 0.4 | | 22:48 | 0.5 | | 22:36 | 0.3 | | 23:20 | 0.6 | | 23:20 | 0.6 | | SÁB | 21:36 | 0.2 | 22:16 | 0.5 | | | |
| 02 | 03:47 | 1.6 | 18 | 05:07 | 1.5 | 02 | 04:53 | 1.7 | 18 | 05:36 | 1.4 | 02 | 03:49 | 1.8 | 18 | 04:28 | 1.5 | | | | | | |
| | 10:08 | 0.4 | | 11:24 | 0.5 | | 11:12 | 0.3 | | 11:44 | 0.6 | | 10:05 | 0.2 | | 10:32 | 0.5 | | | | | | |
| | QUI | 16:12 | | 1.4 | SÁB | | 17:23 | 1.3 | | DOM | 17:20 | | 1.5 | TER | | 17:49 | 1.3 | DOM | 16:14 | 1.7 | TER | 16:40 | 1.4 |
| | 22:09 | 0.4 | | 23:25 | 0.5 | | 23:21 | 0.4 | | 23:55 | 0.7 | | 22:17 | 0.3 | | 22:46 | 0.5 | | | | | | |
| 03 | 04:29 | 1.6 | 19 | 05:44 | 1.4 | 03 | 05:37 | 1.6 | 19 | 06:11 | 1.3 | 03 | 04:31 | 1.7 | 19 | 04:58 | 1.4 | | | | | | |
| | 10:51 | 0.4 | | 12:01 | 0.6 | | 11:58 | 0.4 | | 12:21 | 0.7 | | 10:47 | 0.3 | | 11:01 | 0.6 | | | | | | |
| | SEX | 16:56 | | 1.4 | DOM | | 18:00 | 1.3 | | SEG | 18:07 | | 1.5 | QUA | | 18:30 | 1.2 | SEG | 16:56 | 1.6 | QUA | 17:12 | 1.4 |
| | 22:53 | 0.4 | | 18:00 | 1.3 | | 18:07 | 1.5 | | 18:30 | 1.2 | | 23:01 | 0.4 | | 23:19 | 0.6 | | | | | | |
| 04 | 05:13 | 1.6 | 20 | 00:04 | 0.6 | 04 | 00:10 | 0.5 | 20 | 00:39 | 0.7 | 04 | 05:15 | 1.6 | 20 | 05:31 | 1.3 | | | | | | |
| | 11:37 | 0.4 | | 06:23 | 1.4 | | 06:27 | 1.5 | | 06:56 | 1.2 | | 11:31 | 0.4 | | 11:34 | 0.6 | | | | | | |
| | SÁB | 17:43 | | 1.4 | SEG | | 12:41 | 0.6 | | TER | 12:51 | | 0.5 | QUI | | 13:11 | 0.7 | TER | 17:41 | 1.5 | QUI | 17:50 | 1.3 |
| | 23:41 | 0.5 | | 18:42 | 1.3 | | 19:02 | 1.4 | | 19:30 | 1.2 | | 23:50 | 0.5 | | | | | | | | | |
| 05 | 06:01 | 1.5 | 21 | 00:49 | 0.7 | 05 | 01:10 | 0.6 | 21 | 01:52 | 0.8 | 05 | 06:03 | 1.5 | 21 | 00:00 | 0.7 | | | | | | |
| | 12:28 | 0.5 | | 07:08 | 1.3 | | 07:26 | 1.4 | | 08:07 | 1.1 | | 12:22 | 0.5 | | 06:13 | 1.2 | | | | | | |
| | DOM | 18:36 | | 1.4 | TER | | 13:29 | 0.7 | | QUA | 13:57 | | 0.6 | SEX | | 14:35 | 0.8 | QUA | 18:35 | 1.4 | SEX | 12:18 | 0.7 |
| | | | | ((| 19:35 | | 1.2 |) | | 20:13 | 1.3 | | 21:09 | 1.1 | | 18:44 | 1.2 | | | | | | |
| 06 | 00:36 | 0.6 | 22 | 01:48 | 0.8 | 06 | 02:29 | 0.7 | 22 | 03:51 | 0.8 | 06 | 00:51 | 0.6 | 22 | 01:09 | 0.8 | | | | | | |
| | 06:55 | 1.5 | | 08:05 | 1.2 | | 08:43 | 1.3 | | 09:55 | 1.1 | | 07:02 | 1.3 | | 07:22 | 1.1 | | | | | | |
| | SEG | 13:27 | | 0.5 | QUA | | 14:32 | 0.8 | | QUI | 15:20 | | 0.7 | SÁB | | 16:19 | 0.7 | QUI | 13:27 | 0.6 | SÁB | 13:35 | 0.8 |
| |) | 19:37 | | 1.3 | 20:47 | | 1.2 | 21:43 | | 1.3 | 22:46 | | 1.2 | 19:48 | | 1.3 |) | 19:48 | 1.3 | ((| 20:16 | 1.1 | |
| 07 | 01:41 | 0.6 | 23 | 03:08 | 0.8 | 07 | 04:06 | 0.7 | 23 | 05:22 | 0.7 | 07 | 02:17 | 0.7 | 23 | 03:11 | 0.8 | | | | | | |
| | 07:59 | 1.4 | | 09:19 | 1.2 | | 10:16 | 1.3 | | 11:19 | 1.1 | | 08:27 | 1.2 | | 09:19 | 1.1 | | | | | | |
| | TER | 14:34 | | 0.6 | QUI | | 15:49 | 0.8 | | SEX | 16:47 | | 0.6 | DOM | | 17:30 | 0.7 | SEX | 15:00 | 0.7 | DOM | 15:33 | 0.8 |
| | 20:49 | 1.3 | | 22:11 | 1.2 | | 23:08 | 1.3 | | 23:46 | 1.3 | | 21:29 | 1.3 | | 22:02 | 1.2 | | | | | | |
| 08 | 02:56 | 0.7 | 24 | 04:35 | 0.8 | 08 | 05:32 | 0.6 | 24 | 06:15 | 0.6 | 08 | 04:08 | 0.7 | 24 | 04:47 | 0.7 | | | | | | |
| | 09:12 | 1.4 | | 10:36 | 1.2 | | 11:38 | 1.3 | | 12:14 | 1.2 | | 10:19 | 1.2 | | 10:52 | 1.1 | | | | | | |
| | QUA | 15:47 | | 0.6 | SEX | | 17:01 | 0.7 | | SÁB | 17:56 | | 0.6 | SEG | | 18:19 | 0.6 | SÁB | 16:40 | 0.7 | SEG | 16:55 | 0.7 |
| | 22:05 | 1.3 | | 23:20 | 1.2 | | 17:56 | 0.6 | | 18:19 | 0.6 | | 23:02 | 1.3 | | 23:09 | 1.3 | | | | | | |
| 09 | 04:16 | 0.7 | 25 | 05:43 | 0.7 | 09 | 00:12 | 1.4 | 25 | 00:31 | 1.4 | 09 | 05:35 | 0.6 | 25 | 05:42 | 0.6 | | | | | | |
| | 10:27 | 1.4 | | 11:40 | 1.2 | | 06:36 | 0.5 | | 06:55 | 0.5 | | 11:42 | 1.2 | | 11:47 | 1.3 | | | | | | |
| | QUI | 16:58 | | 0.6 | SÁB | | 17:56 | 0.6 | | DOM | 12:38 | | 1.3 | TER | | 12:57 | 1.3 | DOM | 17:49 | 0.6 | TER | 17:48 | 0.6 |
| | 23:14 | 1.4 | | 18:48 | 0.5 | | 18:48 | 0.5 | | 19:00 | 0.4 | | 23:58 | 1.4 | | | | | | | | | |
| 10 | 05:28 | 0.6 | 26 | 00:12 | 1.3 | 10 | 01:02 | 1.5 | 26 | 01:11 | 1.5 | 10 | 00:04 | 1.4 | 26 | 06:24 | 0.4 | | | | | | |
| | 11:35 | 1.4 | | 06:34 | 0.6 | | 07:25 | 0.5 | | 07:33 | 0.4 | | 06:32 | 0.5 | | 12:30 | 1.4 | | | | | | |
| | SEX | 17:58 | | 0.5 | DOM | | 12:30 | 1.3 | | SEG | 13:24 | | 1.3 | QUA | | 13:37 | 1.5 | SEG | 12:35 | 1.3 | QUA | 18:32 | 0.4 |
| | | | | 18:40 | 0.5 | | 19:30 | 0.4 | | 19:39 | 0.4 | | 18:38 | 0.5 | | | | | | | | | |
| 11 | 00:14 | 1.5 | 27 | 00:55 | 1.4 | 11 | 01:44 | 1.5 | 27 | 01:50 | 1.6 | 11 | 00:49 | 1.4 | 27 | 00:40 | 1.5 | | | | | | |
| | 06:31 | 0.5 | | 07:16 | 0.5 | | 08:05 | 0.4 | | 08:10 | 0.3 | | 07:12 | 0.4 | | 07:03 | 0.3 | | | | | | |
| | SÁB | 12:33 | | 1.4 | SEG | | 13:14 | 1.3 | | TER | 14:03 | | 1.4 | QUI | | 14:15 | 1.6 | TER | 13:13 | 1.3 | QUI | 13:10 | 1.5 |
| | 18:50 | 0.5 | | 19:20 | 0.4 | | 20:07 | 0.4 | | 20:17 | 0.3 | | 19:16 | 0.4 | | 19:13 | 0.3 | | | | | | |
| 12 | 01:05 | 1.5 | 28 | 01:34 | 1.5 | 12 | 02:21 | 1.6 | 28 | 02:29 | 1.7 | 12 | 01:26 | 1.5 | 28 | 01:22 | 1.7 | | | | | | |
| | 07:24 | 0.5 | | 07:55 | 0.4 | | 08:40 | 0.4 | | 08:47 | 0.2 | | 07:45 | 0.4 | | 07:41 | 0.2 | | | | | | |
| | DOM | 13:24 | | 1.4 | TER | | 13:56 | 1.4 | | QUA | 14:39 | | 1.4 | QUA | | 13:46 | 1.4 | SEX | 13:49 | 1.6 | | | |
| | 19:36 | 0.4 | | 19:58 | 0.4 | | ○ | 20:42 | | 0.3 | ● | | 20:56 | 0.2 | | 19:49 | 0.4 | 19:53 | 0.3 | | | | |
| 13 | 01:51 | 1.6 | 29 | 02:13 | 1.6 | 13 | 02:56 | 1.6 | 29 | 01:59 | 1.5 | 13 | 01:59 | 1.5 | 29 | 02:03 | 1.7 | | | | | | |
| | 08:11 | 0.4 | | 08:33 | 0.3 | | 09:12 | 0.3 | | 08:15 | 0.4 | | 08:20 | 0.2 | | | | | | | | | |
| | SEG | 14:10 | | 1.4 | QUA | | 14:36 | 1.5 | | QUI | 15:11 | | 1.5 | QUI | | 14:15 | 1.5 | SÁB | 14:29 | 1.7 | | | |
| | ○ | 20:18 | | 0.4 | ● | | 20:37 | 0.3 | | 21:14 | 0.3 | | 20:19 | 0.4 | | ● | 20:33 | 0.2 | | | | | |
| 14 | 02:34 | 1.6 | 30 | 02:51 | 1.6 | 14 | 03:29 | 1.6 | 30 | 02:29 | 1.6 | 14 | 02:29 | 1.6 | 30 | 02:45 | 1.8 | | | | | | |
| | 08:54 | 0.4 | | 09:11 | 0.3 | | 09:43 | 0.4 | | 08:42 | 0.4 | | 09:00 | 0.2 | | | | | | | | | |
| | TER | 14:53 | | 1.4 | QUI | | 15:16 | 1.5 | | SEX | 15:43 | | 1.5 | SEX | | 14:44 | 1.5 | DOM | 15:09 | 1.7 | | | |
| | 20:57 | 0.3 | | 21:15 | 0.3 | | 21:46 | 0.4 | | 20:49 | 0.4 | | 21:15 | 0.2 | | | | | | | | | |
| 15 | 03:15 | 1.6 | 31 | 03:31 | 1.7 | 15 | 04:01 | 1.6 | 31 | 02:59 | 1.6 | 15 | 02:59 | 1.6 | 31 | 03:27 | 1.8 | | | | | | |
| | 09:34 | 0.4 | | 09:50 | 0.3 | | 10:12 | 0.4 | | 09:09 | 0.4 | | 09:41 | 0.2 | | | | | | | | | |
| | QUA | 15:32 | | 1.4 | SEX | | 15:56 | 1.6 | | SÁB | 16:14 | | 1.5 | SÁB | | 15:12 | 1.5 | SEG | 15:51 | 1.7 | | | |
| | 21:35 | 0.4 | | 21:55 | 0.3 | | 22:17 | 0.4 | | 21:18 | 0.4 | | 21:59 | 0.3 | | | | | | | | | |
| 16 | 03:53 | 1.6 | 16 | 04:32 | 1.5 | 16 | 04:32 | 1.5 | 16 | 03:29 | 1.6 | 16 | 03:29 | 1.6 | 16 | 03:27 | 1.8 | | | | | | |
| | 10:11 | 0.4 | | 10:42 | 0.5 | | 10:42 | 0.5 | | 09:37 | 0.4 | | 09:41 | 0.2 | | | | | | | | | |
| | QUI | 16:10 | | 1.4 | DOM | | 16:44 | 1.4 | | DOM | 15:41 | | 1.5 | 15:51 | | 1.7 | | | | | | | |
| | 22:12 | 0.4 | | 22:48 | 0.5 | | 22:48 | 0.5 | | 21:47 | 0.4 | | 21:59 | 0.3 | | | | | | | | | |

Porto de Angra do Heroísmo (Ilha Terceira)

Latitude 38° 38.99' N Longitude 27° 13.34' W

Horas do Fuso: 0 (TU)

Ano: 2025

| ABRIL | | | | MAIO | | | | JUNHO | | | | | | | | | | |
|-----------|-------|--------|-----------|-------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-------|-----------|-------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | | |
| 01 | 04:11 | 1.7 | 17 | 04:32 | 1.3 | 01 | 04:43 | 1.5 | 17 | 05:02 | 1.2 | 01 | 00:24 | 0.5 | 17 | 00:27 | 0.5 | |
| | 10:23 | 0.3 | | 10:32 | 0.5 | | 10:52 | 0.4 | | 10:57 | 0.5 | | 06:21 | 1.2 | | 06:34 | 1.2 | |
| TER | 16:35 | 1.6 | QUI | 16:49 | 1.4 | QUI | 17:11 | 1.5 | SÁB | 17:22 | 1.3 | DOM | 12:26 | 0.5 | TER | 12:30 | 0.6 | |
| | 22:45 | 0.4 | | 23:01 | 0.6 | | 23:33 | 0.4 | | 23:47 | 0.6 | | 18:49 | 1.4 | | 18:50 | 1.4 | |
| 02 | 04:56 | 1.6 | 18 | 05:09 | 1.2 | 02 | 05:36 | 1.3 | 18 | 05:52 | 1.2 | 02 | 01:26 | 0.5 | 18 | 01:23 | 0.5 | |
| | 11:09 | 0.4 | | 11:07 | 0.6 | | 11:45 | 0.5 | | 11:46 | 0.6 | | 07:25 | 1.1 | | 07:34 | 1.2 | |
| QUA | 17:23 | 1.5 | SEX | 17:30 | 1.3 | SEX | 18:08 | 1.4 | DOM | 18:13 | 1.3 | SEG | 13:30 | 0.6 | QUA | 13:33 | 0.6 | |
| | 23:38 | 0.5 | | 23:48 | 0.6 | | | | | | | | 19:51 | 1.3 | ☾ | 19:51 | 1.4 | |
| 03 | 05:47 | 1.4 | 19 | 05:56 | 1.1 | 03 | 00:40 | 0.5 | 19 | 00:48 | 0.6 | 03 | 02:30 | 0.6 | 19 | 02:26 | 0.5 | |
| | 12:00 | 0.5 | | 11:54 | 0.7 | | 06:40 | 1.2 | | 06:56 | 1.1 | | 08:34 | 1.1 | | 08:41 | 1.3 | |
| QUI | 18:19 | 1.4 | SÁB | 18:25 | 1.2 | SÁB | 12:50 | 0.6 | SEG | 12:51 | 0.6 | TER | 14:40 | 0.6 | QUI | 14:43 | 0.6 | |
| | | | | | | | 19:16 | 1.3 | | 19:17 | 1.3 | ☽ | 20:57 | 1.3 | | 20:57 | 1.4 | |
| 04 | 00:44 | 0.6 | 20 | 00:59 | 0.7 | 04 | 02:00 | 0.6 | 20 | 01:59 | 0.6 | 04 | 03:33 | 0.6 | 20 | 03:31 | 0.5 | |
| | 06:49 | 1.3 | | 07:07 | 1.1 | | 08:02 | 1.1 | | 08:11 | 1.1 | | 09:43 | 1.1 | | 09:49 | 1.3 | |
| SEX | 13:07 | 0.6 | DOM | 13:07 | 0.7 | DOM | 14:12 | 0.7 | TER | 14:08 | 0.7 | QUA | 15:48 | 0.6 | SEX | 15:53 | 0.6 | |
| | 19:33 | 1.3 | | 19:43 | 1.2 | | ☽ | 20:38 | 1.3 | ☾ | 20:29 | 1.3 | | 21:59 | 1.3 | | 22:05 | 1.4 |
| 05 | 02:15 | 0.7 | 21 | 02:35 | 0.7 | 05 | 03:24 | 0.6 | 21 | 03:10 | 0.5 | 05 | 04:28 | 0.6 | 21 | 04:34 | 0.5 | |
| | 08:20 | 1.1 | | 08:47 | 1.1 | | 09:34 | 1.1 | | 09:26 | 1.2 | | 10:40 | 1.2 | | 10:51 | 1.4 | |
| SÁB | 14:42 | 0.7 | SEG | 14:48 | 0.7 | SEG | 15:37 | 0.7 | QUA | 15:24 | 0.6 | QUI | 16:46 | 0.6 | SÁB | 16:59 | 0.5 | |
| ☽ | 21:11 | 1.3 | ☾ | 21:13 | 1.2 | | 21:56 | 1.3 | | 21:38 | 1.3 | | 22:52 | 1.3 | | 23:08 | 1.4 | |
| 06 | 03:59 | 0.7 | 22 | 03:59 | 0.6 | 06 | 04:33 | 0.6 | 22 | 04:13 | 0.5 | 06 | 05:15 | 0.6 | 22 | 05:33 | 0.4 | |
| | 10:11 | 1.1 | | 10:12 | 1.2 | | 10:46 | 1.2 | | 10:29 | 1.3 | | 11:26 | 1.2 | | 11:49 | 1.4 | |
| DOM | 16:19 | 0.7 | TER | 16:11 | 0.7 | TER | 16:45 | 0.6 | QUI | 16:29 | 0.6 | SEX | 17:35 | 0.6 | DOM | 18:00 | 0.5 | |
| | 22:39 | 1.3 | | 22:24 | 1.3 | | 22:56 | 1.3 | | 22:40 | 1.4 | | 23:38 | 1.3 | | | | |
| 07 | 05:16 | 0.6 | 23 | 04:58 | 0.5 | 07 | 05:24 | 0.5 | 23 | 05:08 | 0.4 | 07 | 05:56 | 0.5 | 23 | 00:06 | 1.4 | |
| | 11:27 | 1.2 | | 11:10 | 1.3 | | 11:34 | 1.2 | | 11:22 | 1.4 | | 12:05 | 1.3 | | 06:27 | 0.4 | |
| SEG | 17:26 | 0.6 | QUA | 17:10 | 0.6 | QUA | 17:35 | 0.6 | SEX | 17:26 | 0.5 | SÁB | 18:17 | 0.6 | SEG | 12:42 | 1.5 | |
| | 23:39 | 1.3 | | 23:19 | 1.4 | | 23:42 | 1.4 | | 23:34 | 1.5 | | | | | 18:57 | 0.4 | |
| 08 | 06:07 | 0.5 | 24 | 05:46 | 0.4 | 08 | 06:04 | 0.5 | 24 | 05:58 | 0.4 | 08 | 00:18 | 1.3 | 24 | 01:01 | 1.4 | |
| | 12:13 | 1.3 | | 11:57 | 1.4 | | 12:10 | 1.3 | | 12:11 | 1.5 | | 06:33 | 0.5 | | 07:18 | 0.3 | |
| TER | 18:13 | 0.5 | QUI | 17:59 | 0.5 | QUI | 18:16 | 0.5 | SÁB | 18:18 | 0.4 | DOM | 12:42 | 1.3 | TER | 13:33 | 1.5 | |
| | | | | | | | | | | | | | 18:57 | 0.5 | | 19:51 | 0.3 | |
| 09 | 00:22 | 1.4 | 25 | 00:07 | 1.5 | 09 | 00:20 | 1.4 | 25 | 00:25 | 1.6 | 09 | 00:56 | 1.3 | 25 | 01:54 | 1.4 | |
| | 06:44 | 0.5 | | 06:30 | 0.3 | | 06:37 | 0.5 | | 06:46 | 0.3 | | 07:08 | 0.5 | | 08:06 | 0.3 | |
| QUA | 12:48 | 1.3 | SEX | 12:40 | 1.5 | SEX | 12:42 | 1.4 | DOM | 12:58 | 1.6 | SEG | 13:19 | 1.4 | QUA | 14:23 | 1.6 | |
| | 18:50 | 0.5 | | 18:44 | 0.4 | | 18:50 | 0.5 | | 19:08 | 0.3 | | 19:35 | 0.5 | ● | 20:42 | 0.3 | |
| 10 | 00:57 | 1.5 | 26 | 00:52 | 1.6 | 10 | 00:53 | 1.4 | 26 | 01:15 | 1.6 | 10 | 01:34 | 1.3 | 26 | 02:44 | 1.4 | |
| | 07:15 | 0.4 | | 07:12 | 0.3 | | 07:07 | 0.5 | | 07:32 | 0.3 | | 07:43 | 0.4 | | 08:52 | 0.3 | |
| QUI | 13:17 | 1.4 | SÁB | 13:22 | 1.6 | SÁB | 13:12 | 1.4 | SEG | 13:45 | 1.6 | TER | 13:55 | 1.4 | QUI | 15:10 | 1.6 | |
| | 19:22 | 0.4 | | 19:28 | 0.3 | | 19:23 | 0.5 | | 19:57 | 0.3 | | 20:12 | 0.5 | | 21:31 | 0.3 | |
| 11 | 01:28 | 1.5 | 27 | 01:37 | 1.7 | 11 | 01:26 | 1.4 | 27 | 02:04 | 1.6 | 11 | 02:12 | 1.3 | 27 | 03:33 | 1.4 | |
| | 07:42 | 0.4 | | 07:54 | 0.2 | | 07:36 | 0.4 | | 08:18 | 0.2 | | 08:17 | 0.4 | | 09:37 | 0.3 | |
| SEX | 13:45 | 1.5 | DOM | 14:04 | 1.7 | DOM | 13:43 | 1.4 | TER | 14:32 | 1.6 | QUA | 14:33 | 1.4 | SEX | 15:57 | 1.6 | |
| | 19:52 | 0.4 | ● | 20:12 | 0.2 | | 19:55 | 0.4 | ● | 20:47 | 0.3 | ○ | 20:50 | 0.4 | | 22:19 | 0.3 | |
| 12 | 01:58 | 1.5 | 28 | 02:22 | 1.7 | 12 | 01:58 | 1.4 | 28 | 02:53 | 1.5 | 12 | 02:51 | 1.3 | 28 | 04:19 | 1.3 | |
| | 08:09 | 0.4 | | 08:37 | 0.2 | | 08:06 | 0.4 | | 09:04 | 0.3 | | 08:53 | 0.4 | | 10:22 | 0.3 | |
| SÁB | 14:13 | 1.5 | SEG | 14:48 | 1.7 | SEG | 14:15 | 1.5 | QUA | 15:20 | 1.6 | QUI | 15:10 | 1.4 | SÁB | 16:42 | 1.5 | |
| | 20:21 | 0.4 | | 20:58 | 0.2 | ○ | 20:28 | 0.4 | | 21:38 | 0.3 | | 21:29 | 0.4 | | 23:06 | 0.3 | |
| 13 | 02:28 | 1.5 | 29 | 03:07 | 1.7 | 13 | 02:31 | 1.4 | 29 | 03:42 | 1.5 | 13 | 03:30 | 1.3 | 29 | 05:05 | 1.3 | |
| | 08:36 | 0.4 | | 09:20 | 0.2 | | 08:37 | 0.4 | | 09:50 | 0.3 | | 09:29 | 0.4 | | 11:06 | 0.4 | |
| DOM | 14:42 | 1.5 | TER | 15:33 | 1.7 | TER | 14:49 | 1.5 | QUI | 16:09 | 1.6 | SEX | 15:49 | 1.4 | DOM | 17:27 | 1.5 | |
| ○ | 20:51 | 0.4 | | 21:45 | 0.3 | | 21:02 | 0.4 | | 22:30 | 0.3 | | 22:09 | 0.4 | | 23:52 | 0.4 | |
| 14 | 02:58 | 1.5 | 30 | 03:54 | 1.6 | 14 | 03:05 | 1.4 | 30 | 04:33 | 1.4 | 14 | 04:12 | 1.3 | 30 | 05:50 | 1.3 | |
| | 09:04 | 0.4 | | 10:04 | 0.3 | | 09:09 | 0.4 | | 10:38 | 0.4 | | 10:08 | 0.4 | | 11:52 | 0.5 | |
| SEG | 15:11 | 1.5 | QUA | 16:20 | 1.6 | QUA | 15:23 | 1.4 | SEX | 16:59 | 1.5 | SÁB | 16:29 | 1.4 | SEG | 18:12 | 1.4 | |
| | 21:21 | 0.4 | | 22:36 | 0.4 | | 21:37 | 0.5 | | 23:25 | 0.4 | | 22:51 | 0.4 | | | | |
| 15 | 03:29 | 1.5 | | | | 15 | 03:41 | 1.3 | 31 | 05:25 | 1.3 | 15 | 04:55 | 1.2 | | | | |
| | 09:32 | 0.4 | | | | | 09:41 | 0.4 | | 11:29 | 0.4 | | 10:49 | 0.5 | | | | |
| TER | 15:42 | 1.5 | | | | QUI | 15:59 | 1.4 | SÁB | 17:52 | 1.4 | DOM | 17:11 | 1.4 | | | | |
| | 21:51 | 0.5 | | | | | 22:15 | 0.5 | | | | | 23:36 | 0.4 | | | | |
| 16 | 04:00 | 1.4 | | | | 16 | 04:19 | 1.3 | | | | 16 | 05:42 | 1.2 | | | | |
| | 10:01 | 0.5 | | | | | 10:17 | 0.5 | | | | | 11:36 | 0.5 | | | | |
| QUA | 16:15 | 1.4 | | | | SEX | 16:38 | 1.4 | | | | | 17:57 | 1.4 | | | | |
| | 22:24 | 0.5 | | | | | 22:57 | 0.5 | | | | | | | | | | |

Porto de Angra do Heroísmo (Ilha Terceira)

Latitude 38° 38.99' N Longitude 27° 13.34' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JULHO | | | | AGOSTO | | | | SETEMBRO | | | | | | | | | |
|-----------|-------|--------|-----------|--------|--------|-----------|--------|----------|-----------|-------|--------|-----------|-------|-----|-----------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 00:39 | 0.5 | 17 | 00:49 | 0.5 | 01 | 01:11 | 0.6 | 17 | 02:30 | 0.6 | 01 | 02:16 | 0.8 | 17 | 05:15 | 0.6 |
| | 06:37 | 1.2 | | 06:59 | 1.3 | | 07:16 | 1.2 | | 08:54 | 1.3 | | 08:51 | 1.1 | | 11:32 | 1.4 |
| TER | 12:42 | 0.6 | QUI | 13:01 | 0.6 | SEX | 13:28 | 0.7 | DOM | 15:18 | 0.7 | SEG | 15:40 | 0.8 | QUA | 18:02 | 0.5 |
| | 19:00 | 1.3 | | 19:18 | 1.4 |) | 19:42 | 1.2 | | 21:28 | 1.2 | | 21:40 | 1.1 | | | |
| 02 | 01:28 | 0.6 | 18 | 01:47 | 0.5 | 02 | 02:07 | 0.7 | 18 | 03:59 | 0.6 | 02 | 04:04 | 0.8 | 18 | 00:07 | 1.3 |
| | 07:28 | 1.2 | | 08:02 | 1.3 | | 08:20 | 1.2 | | 10:25 | 1.3 | | 10:33 | 1.2 | | 06:09 | 0.6 |
| QUA | 13:37 | 0.6 | SEX | 14:08 | 0.6 | SÁB | 14:42 | 0.8 | SEG | 16:52 | 0.6 | TER | 17:12 | 0.7 | QUI | 12:22 | 1.5 |
|) | 19:52 | 1.3 | (| 20:23 | 1.4 | | 20:51 | 1.1 | | 22:58 | 1.2 | | 23:08 | 1.1 | | 18:47 | 0.5 |
| 03 | 02:22 | 0.6 | 19 | 02:56 | 0.6 | 03 | 03:21 | 0.7 | 19 | 05:18 | 0.6 | 03 | 05:17 | 0.7 | 19 | 00:50 | 1.4 |
| | 08:27 | 1.2 | | 09:15 | 1.3 | | 09:45 | 1.1 | | 11:38 | 1.4 | | 11:33 | 1.3 | | 06:51 | 0.5 |
| QUI | 14:39 | 0.7 | SÁB | 15:26 | 0.6 | DOM | 16:13 | 0.8 | TER | 18:05 | 0.5 | QUA | 18:03 | 0.6 | SEX | 13:02 | 1.6 |
| | 20:52 | 1.2 | | 21:38 | 1.3 | | 22:14 | 1.1 | | | | | | | | 19:23 | 0.4 |
| 04 | 03:21 | 0.6 | 20 | 04:10 | 0.6 | 04 | 04:39 | 0.7 | 20 | 00:07 | 1.3 | 04 | 00:01 | 1.2 | 20 | 01:25 | 1.4 |
| | 09:33 | 1.2 | | 10:31 | 1.3 | | 11:02 | 1.2 | | 06:18 | 0.5 | | 06:05 | 0.6 | | 07:27 | 0.4 |
| SEX | 15:47 | 0.7 | DOM | 16:47 | 0.6 | SEG | 17:30 | 0.7 | QUA | 12:34 | 1.5 | QUI | 12:16 | 1.4 | SÁB | 13:37 | 1.6 |
| | 21:54 | 1.2 | | 22:54 | 1.3 | | 23:25 | 1.1 | | 18:59 | 0.5 | | 18:41 | 0.5 | | 19:55 | 0.4 |
| 05 | 04:21 | 0.6 | 21 | 05:20 | 0.5 | 05 | 05:41 | 0.6 | 21 | 01:00 | 1.3 | 05 | 00:42 | 1.3 | 21 | 01:56 | 1.5 |
| | 10:36 | 1.2 | | 11:39 | 1.4 | | 11:58 | 1.2 | | 07:05 | 0.4 | | 06:44 | 0.5 | | 08:00 | 0.4 |
| SÁB | 16:52 | 0.7 | SEG | 17:58 | 0.5 | TER | 18:24 | 0.6 | QUI | 13:19 | 1.5 | SEX | 12:53 | 1.5 | DOM | 14:10 | 1.6 |
| | 22:54 | 1.2 | | | | | | | | 19:42 | 0.4 | | 19:16 | 0.4 | ● | 20:24 | 0.4 |
| 06 | 05:16 | 0.6 | 22 | 00:01 | 1.3 | 06 | 00:19 | 1.2 | 22 | 01:42 | 1.4 | 06 | 01:19 | 1.4 | 22 | 02:26 | 1.5 |
| | 11:31 | 1.2 | | 06:20 | 0.4 | | 06:28 | 0.6 | | 07:46 | 0.4 | | 07:20 | 0.4 | | 08:31 | 0.4 |
| DOM | 17:49 | 0.6 | TER | 12:37 | 1.4 | QUA | 12:42 | 1.3 | SEX | 14:00 | 1.6 | SÁB | 13:30 | 1.6 | SEG | 14:41 | 1.6 |
| | 23:47 | 1.2 | | 18:58 | 0.4 | | 19:06 | 0.5 | | 20:20 | 0.3 | | 19:50 | 0.3 | | 20:52 | 0.4 |
| 07 | 06:04 | 0.6 | 23 | 00:59 | 1.4 | 07 | 01:03 | 1.3 | 23 | 02:20 | 1.4 | 07 | 01:55 | 1.5 | 23 | 02:55 | 1.6 |
| | 12:18 | 1.3 | | 07:11 | 0.4 | | 07:07 | 0.5 | | 08:23 | 0.3 | | 07:56 | 0.4 | | 09:01 | 0.4 |
| SEG | 18:38 | 0.6 | QUA | 13:28 | 1.5 | QUI | 13:21 | 1.4 | SÁB | 14:36 | 1.6 | DOM | 14:06 | 1.7 | TER | 15:11 | 1.6 |
| | | | | 19:49 | 0.4 | | 19:43 | 0.4 | ● | 20:54 | 0.3 | ○ | 20:25 | 0.3 | | 21:20 | 0.4 |
| 08 | 00:34 | 1.2 | 24 | 01:50 | 1.4 | 08 | 01:43 | 1.3 | 24 | 02:55 | 1.5 | 08 | 02:32 | 1.6 | 24 | 03:24 | 1.6 |
| | 06:46 | 0.5 | | 07:57 | 0.3 | | 07:44 | 0.4 | | 08:57 | 0.3 | | 08:33 | 0.3 | | 09:31 | 0.5 |
| TER | 13:00 | 1.3 | QUI | 14:14 | 1.6 | SEX | 13:58 | 1.5 | DOM | 15:11 | 1.6 | SEG | 14:44 | 1.7 | QUA | 15:42 | 1.6 |
| | 19:21 | 0.5 | ● | 20:36 | 0.3 | | 20:18 | 0.4 | | 21:26 | 0.3 | | 21:01 | 0.3 | | 21:48 | 0.5 |
| 09 | 01:17 | 1.2 | 25 | 02:36 | 1.4 | 09 | 02:21 | 1.4 | 25 | 03:27 | 1.5 | 09 | 03:09 | 1.7 | 25 | 03:54 | 1.5 |
| | 07:25 | 0.4 | | 08:40 | 0.3 | | 08:21 | 0.3 | | 09:31 | 0.4 | | 09:11 | 0.3 | | 10:01 | 0.5 |
| QUA | 13:40 | 1.4 | SEX | 14:57 | 1.6 | SÁB | 14:34 | 1.6 | SEG | 15:45 | 1.6 | TER | 15:24 | 1.8 | QUI | 16:12 | 1.5 |
| | 20:01 | 0.5 | | 21:18 | 0.3 | ○ | 20:54 | 0.3 | | 21:57 | 0.4 | | 21:39 | 0.3 | | 22:17 | 0.5 |
| 10 | 01:58 | 1.3 | 26 | 03:18 | 1.4 | 10 | 02:58 | 1.5 | 26 | 03:59 | 1.5 | 10 | 03:48 | 1.7 | 26 | 04:25 | 1.5 |
| | 08:02 | 0.4 | | 09:20 | 0.3 | | 08:57 | 0.3 | | 10:03 | 0.4 | | 09:51 | 0.3 | | 10:32 | 0.6 |
| QUI | 14:18 | 1.4 | SÁB | 15:38 | 1.6 | DOM | 15:11 | 1.6 | TER | 16:17 | 1.6 | QUA | 16:04 | 1.7 | SEX | 16:43 | 1.4 |
| ○ | 20:39 | 0.4 | | 21:57 | 0.3 | | 21:30 | 0.3 | | 22:28 | 0.4 | | 22:19 | 0.3 | | 22:46 | 0.6 |
| 11 | 02:39 | 1.3 | 27 | 03:57 | 1.4 | 11 | 03:36 | 1.5 | 27 | 04:31 | 1.5 | 11 | 04:29 | 1.6 | 27 | 04:59 | 1.4 |
| | 08:39 | 0.4 | | 09:59 | 0.3 | | 09:35 | 0.3 | | 10:35 | 0.5 | | 10:34 | 0.4 | | 11:06 | 0.7 |
| SEX | 14:56 | 1.5 | DOM | 16:17 | 1.6 | SEG | 15:49 | 1.7 | QUA | 16:50 | 1.5 | QUI | 16:47 | 1.7 | SÁB | 17:17 | 1.3 |
| | 21:16 | 0.4 | | 22:35 | 0.3 | | 22:07 | 0.3 | | 22:59 | 0.5 | | 23:01 | 0.4 | | 23:20 | 0.7 |
| 12 | 03:18 | 1.3 | 28 | 04:35 | 1.4 | 12 | 04:14 | 1.5 | 28 | 05:03 | 1.4 | 12 | 05:13 | 1.6 | 28 | 05:38 | 1.3 |
| | 09:16 | 0.3 | | 10:36 | 0.4 | | 10:14 | 0.3 | | 11:08 | 0.6 | | 11:21 | 0.5 | | 11:50 | 0.8 |
| SÁB | 15:34 | 1.5 | SEG | 16:54 | 1.5 | TER | 16:29 | 1.7 | QUI | 17:22 | 1.4 | SEX | 17:34 | 1.5 | DOM | 17:59 | 1.2 |
| | 21:54 | 0.3 | | 23:11 | 0.4 | | 22:46 | 0.3 | | 23:31 | 0.6 | | 23:50 | 0.5 | | | |
| 13 | 03:58 | 1.4 | 29 | 05:11 | 1.4 | 13 | 04:55 | 1.5 | 29 | 05:37 | 1.3 | 13 | 06:05 | 1.5 | 29 | 00:03 | 0.8 |
| | 09:55 | 0.4 | | 11:14 | 0.5 | | 10:55 | 0.4 | | 11:44 | 0.7 | | 12:19 | 0.6 | | 06:32 | 1.2 |
| DOM | 16:12 | 1.5 | TER | 17:31 | 1.5 | QUA | 17:10 | 1.6 | SEX | 17:58 | 1.3 | SÁB | 18:30 | 1.4 | SEG | 13:01 | 0.8 |
| | 22:33 | 0.3 | | 23:48 | 0.5 | | 23:29 | 0.4 | | | | | | |) | 19:08 | 1.1 |
| 14 | 04:39 | 1.4 | 30 | 05:48 | 1.3 | 14 | 05:38 | 1.5 | 30 | 00:07 | 0.7 | 14 | 00:50 | 0.6 | 30 | 01:19 | 0.8 |
| | 10:35 | 0.4 | | 11:53 | 0.5 | | 11:41 | 0.5 | | 06:18 | 1.3 | | 07:12 | 1.4 | | 08:02 | 1.2 |
| SEG | 16:52 | 1.5 | QUA | 18:09 | 1.4 | QUI | 17:56 | 1.5 | SÁB | 12:28 | 0.7 | DOM | 13:39 | 0.7 | TER | 15:06 | 0.8 |
| | 23:14 | 0.4 | | | | | | | | 18:42 | 1.2 | (| 19:46 | 1.3 | | 21:08 | 1.1 |
| 15 | 05:21 | 1.4 | 31 | 00:26 | 0.6 | 15 | 00:17 | 0.5 | 31 | 00:56 | 0.7 | 15 | 02:15 | 0.7 | 15 | 02:15 | 0.7 |
| | 11:17 | 0.4 | | 06:28 | 1.3 | | 06:28 | 1.4 | | 07:15 | 1.2 | | 08:45 | 1.3 | | 08:45 | 1.3 |
| TER | 17:35 | 1.5 | QUI | 12:35 | 0.6 | SEX | 12:35 | 0.6 | DOM | 13:40 | 0.8 | SEG | 15:25 | 0.7 | | 15:25 | 0.7 |
| | 23:58 | 0.4 | | 18:51 | 1.3 | | 18:50 | 1.4 |) | 19:51 | 1.1 | | 21:34 | 1.2 | | 21:34 | 1.2 |
| 16 | 06:07 | 1.4 | 16 | 01:15 | 0.6 | 16 | 01:15 | 0.6 | 16 | 03:56 | 0.7 | 16 | 03:56 | 0.7 | 16 | 03:56 | 0.7 |
| | 12:05 | 0.5 | | 07:31 | 1.3 | | 07:31 | 1.3 | | 10:22 | 1.3 | | 10:22 | 1.3 | | 10:22 | 1.3 |
| QUA | 18:23 | 1.5 | (| 19:58 | 1.3 | SÁB | 13:46 | 0.6 | TER | 16:59 | 0.6 | | 23:07 | 1.2 | | 23:07 | 1.2 |
| | | | | | | | 19:58 | 1.3 | | | | | | | | | |

Porto de Angra do Heroísmo (Ilha Terceira)

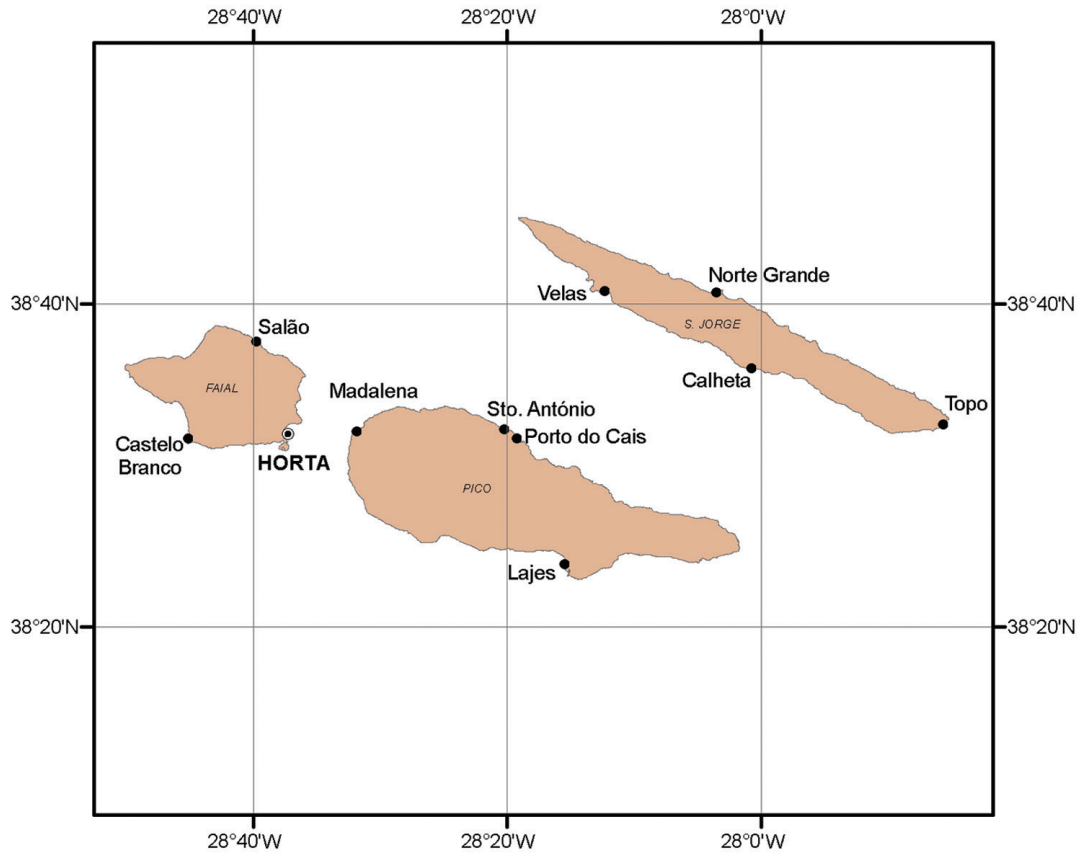
Latitude 38° 38.99' N Longitude 27° 13.34' W

Horas do Fuso: 0 (TU)

Ano: 2025

| OUTUBRO | | | | | NOVEMBRO | | | | | DEZEMBRO | | | | | | | |
|-----------|-------|--------|-----------|--------|----------|-----------|-------|--------|-----------|----------|------|-----------|-------|--------|-----------|-------|-----|
| | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | |
| 01 | 03:19 | 0.8 | 17 | 05:48 | 0.6 | 01 | 04:49 | 0.7 | 17 | 00:27 | 1.4 | 01 | 04:59 | 0.6 | 17 | 00:34 | 1.4 |
| | 09:48 | 1.2 | | 11:58 | 1.5 | | 10:57 | 1.5 | | 06:35 | 0.6 | | 11:07 | 1.5 | | 06:48 | 0.6 |
| | 16:37 | 0.7 | SEX | 18:22 | 0.5 | SÁB | 17:24 | 0.5 | SEG | 12:38 | 1.5 | SEG | 17:32 | 0.5 | QUA | 12:47 | 1.4 |
| | 22:40 | 1.2 | | | | | 23:35 | 1.4 | | 18:53 | 0.5 | | 23:46 | 1.5 | | 19:00 | 0.5 |
| 02 | 04:41 | 0.7 | 18 | 00:27 | 1.4 | 02 | 05:36 | 0.6 | 18 | 00:58 | 1.5 | 02 | 05:52 | 0.5 | 18 | 01:10 | 1.4 |
| | 10:54 | 1.3 | | 06:28 | 0.5 | | 11:43 | 1.6 | | 07:08 | 0.5 | | 11:59 | 1.6 | | 07:26 | 0.6 |
| | 17:27 | 0.6 | SÁB | 12:36 | 1.5 | DOM | 18:06 | 0.4 | TER | 13:11 | 1.5 | TER | 18:20 | 0.4 | QUI | 13:24 | 1.4 |
| | 23:32 | 1.3 | | 18:55 | 0.5 | | | | | 19:23 | 0.5 | | | | | 19:34 | 0.5 |
| 03 | 05:32 | 0.6 | 19 | 00:58 | 1.5 | 03 | 00:16 | 1.6 | 19 | 01:29 | 1.5 | 03 | 00:33 | 1.6 | 19 | 01:46 | 1.5 |
| | 11:40 | 1.4 | | 07:02 | 0.5 | | 06:20 | 0.5 | | 07:41 | 0.5 | | 06:42 | 0.4 | | 08:03 | 0.5 |
| | 18:06 | 0.5 | DOM | 13:09 | 1.6 | SEG | 12:26 | 1.7 | QUA | 13:43 | 1.5 | QUA | 12:49 | 1.6 | SEX | 14:01 | 1.4 |
| | | | | 19:24 | 0.5 | | 18:47 | 0.4 | | 19:52 | 0.5 | | 19:07 | 0.3 | | 20:07 | 0.5 |
| 04 | 00:12 | 1.4 | 20 | 01:27 | 1.5 | 04 | 00:57 | 1.7 | 20 | 02:01 | 1.5 | 04 | 01:20 | 1.7 | 20 | 02:22 | 1.5 |
| | 06:12 | 0.5 | | 07:34 | 0.5 | | 07:02 | 0.4 | | 08:13 | 0.5 | | 07:32 | 0.4 | | 08:39 | 0.5 |
| | 12:19 | 1.5 | SEG | 13:40 | 1.6 | TER | 13:10 | 1.7 | QUI | 14:16 | 1.5 | QUI | 13:38 | 1.6 | SÁB | 14:38 | 1.4 |
| | 18:42 | 0.4 | | 19:52 | 0.5 | | 19:28 | 0.3 | ● | 20:23 | 0.5 | ○ | 19:53 | 0.3 | ● | 20:41 | 0.4 |
| 05 | 00:49 | 1.5 | 21 | 01:56 | 1.6 | 05 | 01:38 | 1.7 | 21 | 02:34 | 1.5 | 05 | 02:07 | 1.7 | 21 | 02:58 | 1.5 |
| | 06:50 | 0.4 | | 08:04 | 0.5 | | 07:46 | 0.3 | | 08:47 | 0.5 | | 08:21 | 0.3 | | 09:16 | 0.5 |
| | 12:58 | 1.7 | TER | 14:10 | 1.6 | QUA | 13:54 | 1.8 | SEX | 14:50 | 1.4 | SEX | 14:27 | 1.6 | DOM | 15:16 | 1.4 |
| | 19:18 | 0.3 | ● | 20:19 | 0.5 | ○ | 20:09 | 0.3 | | 20:54 | 0.5 | | 20:38 | 0.3 | | 21:16 | 0.4 |
| 06 | 01:26 | 1.6 | 22 | 02:25 | 1.6 | 06 | 02:21 | 1.8 | 22 | 03:09 | 1.5 | 06 | 02:55 | 1.7 | 22 | 03:34 | 1.5 |
| | 07:29 | 0.4 | | 08:34 | 0.5 | | 08:31 | 0.3 | | 09:23 | 0.5 | | 09:12 | 0.3 | | 09:53 | 0.5 |
| | 13:37 | 1.8 | QUA | 14:40 | 1.6 | QUI | 14:39 | 1.7 | SÁB | 15:25 | 1.4 | SÁB | 15:17 | 1.6 | SEG | 15:54 | 1.3 |
| | 19:55 | 0.3 | | 20:47 | 0.5 | | 20:52 | 0.3 | | 21:26 | 0.5 | | 21:25 | 0.3 | | 21:51 | 0.5 |
| 07 | 02:04 | 1.7 | 23 | 02:55 | 1.6 | 07 | 03:06 | 1.8 | 23 | 03:45 | 1.5 | 07 | 03:44 | 1.7 | 23 | 04:11 | 1.5 |
| | 08:08 | 0.3 | | 09:04 | 0.5 | | 09:18 | 0.3 | | 10:00 | 0.6 | | 10:04 | 0.4 | | 10:30 | 0.5 |
| | 14:17 | 1.8 | QUI | 15:11 | 1.5 | SEX | 15:26 | 1.7 | DOM | 16:02 | 1.3 | DOM | 16:07 | 1.5 | TER | 16:33 | 1.3 |
| | 20:33 | 0.3 | | 21:16 | 0.5 | | 21:37 | 0.3 | | 22:00 | 0.5 | | 22:12 | 0.4 | | 22:28 | 0.5 |
| 08 | 02:43 | 1.8 | 24 | 03:26 | 1.5 | 08 | 03:53 | 1.7 | 24 | 04:22 | 1.4 | 08 | 04:34 | 1.6 | 24 | 04:49 | 1.5 |
| | 08:48 | 0.3 | | 09:36 | 0.5 | | 10:08 | 0.4 | | 10:40 | 0.6 | | 10:58 | 0.4 | | 11:10 | 0.5 |
| | 14:59 | 1.8 | SEX | 15:43 | 1.5 | SÁB | 16:15 | 1.6 | SEG | 16:43 | 1.3 | SEG | 16:59 | 1.4 | QUA | 17:15 | 1.3 |
| | 21:13 | 0.3 | | 21:45 | 0.5 | | 22:24 | 0.4 | | 22:38 | 0.6 | | 23:02 | 0.5 | | 23:09 | 0.6 |
| 09 | 03:24 | 1.8 | 25 | 03:59 | 1.5 | 09 | 04:44 | 1.6 | 25 | 05:03 | 1.4 | 09 | 05:26 | 1.6 | 25 | 05:30 | 1.4 |
| | 09:31 | 0.3 | | 10:09 | 0.6 | | 11:05 | 0.5 | | 11:26 | 0.6 | | 11:55 | 0.5 | | 11:54 | 0.5 |
| | 15:42 | 1.7 | SÁB | 16:16 | 1.4 | DOM | 17:09 | 1.4 | TER | 17:30 | 1.2 | TER | 17:54 | 1.3 | QUI | 18:01 | 1.3 |
| | 21:55 | 0.3 | | 22:16 | 0.6 | | 23:16 | 0.5 | | 23:22 | 0.7 | | 23:57 | 0.5 | | 23:56 | 0.6 |
| 10 | 04:08 | 1.7 | 26 | 04:35 | 1.4 | 10 | 05:40 | 1.5 | 26 | 05:50 | 1.3 | 10 | 06:21 | 1.5 | 26 | 06:17 | 1.4 |
| | 10:17 | 0.4 | | 10:47 | 0.7 | | 12:10 | 0.6 | | 12:22 | 0.7 | | 12:56 | 0.5 | | 12:45 | 0.6 |
| | 16:28 | 1.6 | DOM | 16:53 | 1.3 | SEG | 18:11 | 1.3 | QUA | 18:27 | 1.2 | QUA | 18:54 | 1.3 | SEX | 18:55 | 1.3 |
| | 22:39 | 0.4 | | 22:51 | 0.7 | | | | | | | | | | | | |
| 11 | 04:55 | 1.6 | 27 | 05:16 | 1.3 | 11 | 00:18 | 0.6 | 27 | 00:20 | 0.7 | 11 | 00:59 | 0.6 | 27 | 00:52 | 0.7 |
| | 11:09 | 0.5 | | 11:34 | 0.7 | | 06:46 | 1.4 | | 06:48 | 1.3 | | 07:22 | 1.4 | | 07:12 | 1.4 |
| | 17:18 | 1.5 | SEG | 17:39 | 1.2 | TER | 13:28 | 0.6 | QUI | 13:28 | 0.7 | QUI | 14:01 | 0.6 | SÁB | 13:45 | 0.6 |
| | 23:30 | 0.5 | | 23:35 | 0.7 | | 19:28 | 1.2 | | 19:38 | 1.2 | ((| 20:02 | 1.2 |)) | 19:59 | 1.3 |
| 12 | 05:50 | 1.5 | 28 | 06:08 | 1.3 | 12 | 01:37 | 0.7 | 28 | 01:34 | 0.8 | 12 | 02:09 | 0.7 | 28 | 02:00 | 0.7 |
| | 12:14 | 0.6 | | 12:42 | 0.8 | | 08:04 | 1.4 | | 07:56 | 1.3 | | 08:29 | 1.4 | | 08:17 | 1.4 |
| | 18:19 | 1.3 | TER | 18:47 | 1.1 | QUA | 14:52 | 0.6 | SEX | 14:39 | 0.7 | SEX | 15:07 | 0.7 | DOM | 14:52 | 0.6 |
| | | | | | | ((| 21:00 | 1.2 |)) | 20:54 | 1.2 | | 21:15 | 1.2 | | 21:10 | 1.3 |
| 13 | 00:33 | 0.7 | 29 | 00:44 | 0.8 | 13 | 03:04 | 0.7 | 29 | 02:52 | 0.7 | 13 | 03:21 | 0.7 | 29 | 03:14 | 0.7 |
| | 07:00 | 1.4 | | 07:22 | 1.2 | | 09:25 | 1.4 | | 09:07 | 1.4 | | 09:36 | 1.3 | | 09:28 | 1.4 |
| | 13:40 | 0.7 | QUA | 14:18 | 0.8 | QUI | 16:06 | 0.6 | SÁB | 15:44 | 0.6 | SÁB | 16:09 | 0.7 | SEG | 16:01 | 0.6 |
| | 19:43 | 1.2 |)) | 20:25 | 1.1 | | 22:18 | 1.2 | | 22:00 | 1.3 | | 22:21 | 1.3 | | 22:20 | 1.4 |
| 14 | 02:02 | 0.7 | 30 | 02:25 | 0.8 | 14 | 04:18 | 0.7 | 30 | 04:01 | 0.7 | 14 | 04:27 | 0.7 | 30 | 04:27 | 0.6 |
| | 08:33 | 1.3 | | 08:51 | 1.3 | | 10:32 | 1.4 | | 10:11 | 1.4 | | 10:36 | 1.3 | | 10:37 | 1.4 |
| | 15:22 | 0.7 | QUI | 15:41 | 0.7 | SEX | 17:03 | 0.6 | DOM | 16:41 | 0.6 | DOM | 17:02 | 0.7 | TER | 17:05 | 0.5 |
| | 21:32 | 1.2 | | 21:52 | 1.2 | | 23:13 | 1.3 | | 22:56 | 1.4 | | 23:13 | 1.3 | | 23:22 | 1.5 |
| 15 | 03:41 | 0.7 | 31 | 03:50 | 0.8 | 15 | 05:14 | 0.7 | 15 | 05:22 | 0.7 | 15 | 05:22 | 0.7 | 31 | 05:33 | 0.6 |
| | 10:04 | 1.4 | | 10:03 | 1.3 | | 11:22 | 1.4 | | 11:26 | 1.4 | | 11:26 | 1.4 | | 11:40 | 1.5 |
| | 16:44 | 0.6 | SEX | 16:39 | 0.6 | SÁB | 17:46 | 0.6 | SEG | 17:46 | 0.6 | SEG | 17:46 | 0.6 | QUA | 18:03 | 0.5 |
| | 22:56 | 1.2 | | 22:50 | 1.3 | | 23:54 | 1.4 | | 23:56 | 1.3 | | | | | | |
| 16 | 04:55 | 0.7 | | | | 16 | 05:58 | 0.6 | 16 | 06:07 | 0.7 | 16 | 06:07 | 0.7 | | | |
| | 11:10 | 1.4 | | | | | 12:03 | 1.5 | | 12:08 | 1.4 | | 12:08 | 1.4 | | | |
| | 17:40 | 0.6 | | | | DOM | 18:22 | 0.6 | | 18:25 | 0.6 | | 18:25 | 0.6 | | | |
| | 23:49 | 1.3 | | | | | | | | | | | | | | | |

HORTA



PORTO DA HORTA (ILHA DO FAIAL)

NOTAS

1. ANÁLISE HARMÓNICA:

— Efetuada a partir das observações maregráficas, de 1 de setembro de 2003 a 30 de agosto de 2004.

2. LOCALIZAÇÃO DO MARÉGRAFO:

— No extremo do cais junto ao farolim:

Latitude 38° 31,99' N; Longitude 28° 37,24' W – WGS84.

3. ALTURAS DE MARÉ:

— Referidas ao nível do zero hidrográfico.

— Nível médio: 1,00 m.

4. ZERO HIDROGRÁFICO:

— 1,00 m abaixo do nível médio adotado (Horta, 1935).

— 3,680 m abaixo da marca de contacto implantada no pavimento da casa do marégrafo.

— 3,204 m abaixo da marca de nivelamento DO12/97, situado a meio do edifício da lota junto da parede a cerca de 50 metros da esquina do cais.

Porto de Horta (Ilha do Faial)

Latitude 38° 31.99' N Longitude 28° 37.24' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JANEIRO | | | | FEVEREIRO | | | | MARÇO | | | | | | | | | | | | | | | |
|-----------|-------|--------|-----------|-----------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-------|-----------|-------|-------|-------|-------|-----|-------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | | | | | | | |
| 01 | 02:54 | 1.5 | 17 | 04:20 | 1.5 | 01 | 03:58 | 1.7 | 17 | 04:50 | 1.4 | 01 | 02:55 | 1.7 | 17 | 03:44 | 1.5 | | | | | | |
| | 09:13 | 0.5 | | 10:36 | 0.5 | | 10:19 | 0.3 | | 11:00 | 0.5 | | 09:14 | 0.2 | | 09:51 | 0.5 | | | | | | |
| | 15:12 | 1.4 | | SEX | 16:32 | | 1.4 | SÁB | | 16:22 | 1.5 | | SEG | 17:02 | | 1.3 | SÁB | 15:19 | 1.6 | SEG | 15:56 | 1.4 | |
| | 21:16 | 0.4 | | 22:33 | 0.5 | | 22:24 | 0.4 | | 23:04 | 0.6 | | 21:22 | 0.3 | | 22:00 | 0.5 | | | | | | |
| 02 | 03:34 | 1.6 | 18 | 04:56 | 1.5 | 02 | 04:41 | 1.6 | 18 | 05:22 | 1.4 | 02 | 03:35 | 1.7 | 18 | 04:12 | 1.4 | | | | | | |
| | 09:54 | 0.5 | | 11:12 | 0.5 | | 11:03 | 0.4 | | 11:33 | 0.6 | | 09:54 | 0.3 | | 10:19 | 0.5 | | | | | | |
| | QUI | 15:54 | | 1.4 | SÁB | | 17:08 | 1.3 | | DOM | 17:07 | | 1.5 | TER | | 17:38 | 1.3 | DOM | 16:00 | 1.6 | TER | 16:26 | 1.4 |
| | 21:57 | 0.4 | | 23:08 | 0.5 | | 23:08 | 0.4 | | 23:41 | 0.7 | | 22:03 | 0.3 | | 22:31 | 0.6 | | | | | | |
| 03 | 04:16 | 1.6 | 19 | 05:33 | 1.4 | 03 | 05:26 | 1.6 | 19 | 05:59 | 1.3 | 03 | 04:17 | 1.7 | 19 | 04:43 | 1.4 | | | | | | |
| | 10:39 | 0.5 | | 11:49 | 0.6 | | 11:49 | 0.4 | | 12:12 | 0.7 | | 10:36 | 0.3 | | 10:49 | 0.6 | | | | | | |
| | SEX | 16:40 | | 1.4 | DOM | | 17:46 | 1.3 | | SEG | 17:56 | | 1.4 | QUA | | 18:22 | 1.2 | SEG | 16:43 | 1.5 | QUA | 17:00 | 1.3 |
| | 22:41 | 0.5 | | 23:46 | 0.6 | | 23:57 | 0.5 | | 23:57 | 0.5 | | 22:46 | 0.4 | | 23:07 | 0.6 | | | | | | |
| 04 | 05:02 | 1.5 | 20 | 06:12 | 1.3 | 04 | 06:17 | 1.5 | 20 | 00:30 | 0.7 | 04 | 05:02 | 1.6 | 20 | 05:17 | 1.3 | | | | | | |
| | 11:27 | 0.5 | | 12:30 | 0.6 | | 12:42 | 0.5 | | 06:47 | 1.2 | | 11:20 | 0.4 | | 11:24 | 0.6 | | | | | | |
| | SÁB | 17:29 | | 1.4 | SEG | | 18:30 | 1.2 | | TER | 18:53 | | 1.3 | QUI | | 13:06 | 0.7 | TER | 17:30 | 1.4 | QUI | 17:40 | 1.2 |
| | 23:29 | 0.5 | | 23:29 | 0.5 | | 23:29 | 0.5 | | 19:27 | 1.1 | | 23:36 | 0.5 | | 23:52 | 0.7 | | | | | | |
| 05 | 05:51 | 1.5 | 21 | 00:32 | 0.7 | 05 | 00:56 | 0.6 | 21 | 01:48 | 0.8 | 05 | 05:52 | 1.4 | 21 | 06:02 | 1.2 | | | | | | |
| | 12:20 | 0.5 | | 06:58 | 1.3 | | 07:16 | 1.4 | | 08:03 | 1.1 | | 12:10 | 0.5 | | 12:11 | 0.7 | | | | | | |
| | DOM | 18:24 | | 1.3 | TER | | 13:20 | 0.7 | | QUA | 13:47 | | 0.6 | SEX | | 14:31 | 0.8 | QUA | 18:26 | 1.3 | SEX | 18:38 | 1.2 |
| | | | | ((| 19:28 | | 1.1 |) | | 20:05 | 1.2 | |) | 21:09 | | 1.1 | | | | | | | |
| 06 | 00:23 | 0.6 | 22 | 01:33 | 0.8 | 06 | 02:15 | 0.7 | 22 | 03:45 | 0.8 | 06 | 00:37 | 0.6 | 22 | 01:04 | 0.8 | | | | | | |
| | 06:46 | 1.4 | | 07:57 | 1.2 | | 08:33 | 1.3 | | 09:50 | 1.1 | | 06:53 | 1.3 | | 07:14 | 1.1 | | | | | | |
| | SEG | 13:20 | | 0.5 | QUA | | 14:25 | 0.7 | | QUI | 15:11 | | 0.7 | SÁB | | 16:12 | 0.8 | QUI | 13:15 | 0.7 | SÁB | 13:31 | 0.8 |
| |) | 19:27 | | 1.3 | 20:45 | | 1.1 | 21:33 | | 1.2 | 22:43 | | 1.2 |) | | 19:40 | 1.3 | ((| 20:12 | 1.1 | | | |
| 07 | 01:27 | 0.6 | 23 | 02:56 | 0.8 | 07 | 03:55 | 0.7 | 23 | 05:12 | 0.8 | 07 | 02:07 | 0.7 | 23 | 03:04 | 0.8 | | | | | | |
| | 07:49 | 1.4 | | 09:12 | 1.2 | | 10:04 | 1.2 | | 11:11 | 1.2 | | 08:20 | 1.2 | | 09:08 | 1.1 | | | | | | |
| | TER | 14:27 | | 0.6 | QUI | | 15:41 | 0.7 | | SEX | 16:40 | | 0.7 | DOM | | 17:22 | 0.7 | SEX | 14:52 | 0.7 | DOM | 15:27 | 0.8 |
| | 20:39 | 1.2 | | 22:11 | 1.1 | | 22:57 | 1.3 | | 23:41 | 1.3 | | 21:20 | 1.2 | | 21:56 | 1.2 | | | | | | |
| 08 | 02:42 | 0.7 | 24 | 04:25 | 0.8 | 08 | 05:24 | 0.7 | 24 | 06:05 | 0.7 | 08 | 04:02 | 0.7 | 24 | 04:37 | 0.7 | | | | | | |
| | 08:59 | 1.3 | | 10:31 | 1.2 | | 11:25 | 1.3 | | 12:03 | 1.2 | | 10:07 | 1.2 | | 10:39 | 1.2 | | | | | | |
| | QUA | 15:39 | | 0.6 | SEX | | 16:52 | 0.7 | | SÁB | 17:48 | | 0.6 | SEG | | 18:10 | 0.6 | SÁB | 16:34 | 0.7 | SEG | 16:47 | 0.7 |
| | 21:54 | 1.3 | | 23:18 | 1.2 | | 23:18 | 1.2 | | 23:18 | 1.2 | | 22:51 | 1.3 | | 23:02 | 1.3 | | | | | | |
| 09 | 04:01 | 0.7 | 25 | 05:34 | 0.7 | 09 | 00:01 | 1.4 | 25 | 00:24 | 1.4 | 09 | 05:28 | 0.7 | 25 | 05:32 | 0.6 | | | | | | |
| | 10:12 | 1.3 | | 11:33 | 1.2 | | 06:27 | 0.6 | | 06:45 | 0.6 | | 11:28 | 1.2 | | 11:34 | 1.3 | | | | | | |
| | QUI | 16:48 | | 0.6 | SÁB | | 17:47 | 0.6 | | DOM | 12:25 | | 1.3 | TER | | 12:45 | 1.3 | DOM | 17:41 | 0.6 | TER | 17:39 | 0.6 |
| | 23:03 | 1.3 | | 23:03 | 1.3 | | 18:40 | 0.5 | | 18:50 | 0.5 | | 23:52 | 1.4 | | 23:49 | 1.4 | | | | | | |
| 10 | 05:15 | 0.6 | 26 | 00:07 | 1.3 | 10 | 00:51 | 1.5 | 26 | 01:01 | 1.5 | 10 | 06:22 | 0.6 | 26 | 06:14 | 0.5 | | | | | | |
| | 11:21 | 1.3 | | 06:25 | 0.7 | | 07:15 | 0.5 | | 07:22 | 0.4 | | 12:19 | 1.3 | | 12:17 | 1.4 | | | | | | |
| | SEX | 17:48 | | 0.5 | 12:22 | | 1.3 | 13:11 | | 1.4 | 13:23 | | 1.4 | 18:27 | | 0.6 | 18:21 | 0.5 | | | | | |
| | | | | 18:31 | 0.6 | | 19:21 | 0.5 | | 19:28 | 0.4 | | 19:28 | 0.4 | | | | | | | | | |
| 11 | 00:02 | 1.4 | 27 | 00:48 | 1.4 | 11 | 01:33 | 1.5 | 27 | 01:38 | 1.6 | 11 | 00:37 | 1.5 | 27 | 00:30 | 1.5 | | | | | | |
| | 06:18 | 0.6 | | 07:06 | 0.6 | | 07:54 | 0.5 | | 07:59 | 0.3 | | 07:02 | 0.5 | | 06:52 | 0.4 | | | | | | |
| | SÁB | 12:20 | | 1.4 | SEG | | 13:03 | 1.3 | | TER | 13:50 | | 1.4 | QUI | | 14:01 | 1.5 | TER | 12:57 | 1.3 | QUI | 12:56 | 1.5 |
| | 18:40 | 0.5 | | 19:10 | 0.5 | | 19:57 | 0.4 | | 20:05 | 0.3 | | 19:04 | 0.5 | | 19:00 | 0.4 | | | | | | |
| 12 | 00:54 | 1.5 | 28 | 01:25 | 1.5 | 12 | 02:10 | 1.6 | 28 | 02:16 | 1.7 | 12 | 01:14 | 1.5 | 28 | 01:09 | 1.6 | | | | | | |
| | 07:12 | 0.5 | | 07:44 | 0.5 | | 08:29 | 0.4 | | 08:36 | 0.3 | | 07:34 | 0.5 | | 07:30 | 0.3 | | | | | | |
| | DOM | 13:12 | | 1.4 | TER | | 13:42 | 1.4 | | QUA | 14:25 | | 1.4 | QUA | | 13:31 | 1.4 | SEX | 13:35 | 1.6 | | | |
| | 19:27 | 0.4 | | 19:48 | 0.4 | | ○ | 20:30 | | 0.4 | ● | | 20:43 | 0.3 | | 19:36 | 0.4 | 19:39 | 0.3 | | | | |
| 13 | 01:40 | 1.5 | 29 | 02:01 | 1.5 | 13 | 02:45 | 1.6 | 29 | 01:47 | 1.6 | 13 | 01:47 | 1.6 | 29 | 01:49 | 1.7 | | | | | | |
| | 08:00 | 0.5 | | 08:21 | 0.4 | | 09:01 | 0.4 | | 08:03 | 0.4 | | 08:08 | 0.2 | | | | | | | | | |
| | SEG | 13:59 | | 1.4 | QUA | | 14:20 | 1.5 | | QUI | 14:58 | | 1.5 | QUI | | 14:01 | 1.5 | SÁB | 14:15 | 1.6 | | | |
| | ○ | 20:08 | | 0.4 | ● | | 20:25 | 0.4 | | 21:01 | 0.4 | | 20:06 | 0.4 | | ● | 20:18 | 0.3 | | | | | |
| 14 | 02:24 | 1.6 | 30 | 02:39 | 1.6 | 14 | 03:18 | 1.6 | 30 | 02:18 | 1.6 | 14 | 02:18 | 1.6 | 30 | 02:29 | 1.7 | | | | | | |
| | 08:43 | 0.4 | | 08:59 | 0.4 | | 09:31 | 0.4 | | 08:30 | 0.4 | | 08:48 | 0.2 | | | | | | | | | |
| | TER | 14:41 | | 1.4 | QUI | | 14:59 | 1.5 | | SEX | 15:29 | | 1.5 | 14:31 | | 1.5 | 14:55 | 1.7 | | | | | |
| | 20:47 | 0.4 | | 21:03 | 0.3 | | 21:32 | 0.4 | | ○ | 20:34 | | 0.4 | 21:00 | | 0.3 | | | | | | | |
| 15 | 03:04 | 1.6 | 31 | 03:18 | 1.7 | 15 | 03:49 | 1.6 | 31 | 02:47 | 1.6 | 15 | 02:47 | 1.6 | 31 | 03:12 | 1.7 | | | | | | |
| | 09:23 | 0.4 | | 09:38 | 0.3 | | 10:00 | 0.4 | | 08:57 | 0.4 | | 09:28 | 0.2 | | | | | | | | | |
| | QUA | 15:20 | | 1.4 | SEX | | 15:40 | 1.5 | | SÁB | 15:59 | | 1.5 | 14:59 | | 1.5 | 15:37 | 1.6 | | | | | |
| | 21:24 | 0.4 | | 21:42 | 0.3 | | 22:01 | 0.4 | | 21:02 | 0.4 | | 21:43 | 0.3 | | | | | | | | | |
| 16 | 03:43 | 1.6 | 16 | 04:19 | 1.5 | 16 | 04:19 | 1.5 | 16 | 03:15 | 1.5 | 16 | 03:15 | 1.5 | 16 | 03:12 | 1.7 | | | | | | |
| | 10:01 | 0.5 | | 10:29 | 0.5 | | 10:29 | 0.5 | | 09:24 | 0.4 | | 09:24 | 0.4 | | 09:28 | 0.2 | | | | | | |
| | QUI | 15:56 | | 1.4 | 16:30 | | 1.4 | 16:30 | | 1.4 | 15:28 | | 1.5 | 15:28 | | 1.5 | 15:37 | 1.6 | | | | | |
| | 21:59 | 0.4 | | 22:32 | 0.5 | | 22:32 | 0.5 | | 21:31 | 0.4 | | 21:31 | 0.4 | | 21:43 | 0.3 | | | | | | |

Porto de Horta (Ilha do Faial)

Latitude 38° 31.99' N Longitude 28° 37.24' W

Horas do Fuso: 0 (TU)

Ano: 2025

| ABRIL | | | | MAIO | | | | JUNHO | | | | | | | | | |
|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 03:56 10:10 TER 16:22 22:30 | 1.7 0.3 1.6 0.4 | 17 | 04:15 10:18 QUI 16:35 22:47 | 1.3 0.6 1.4 0.6 | 01 | 04:29 10:37 QUI 16:58 23:20 | 1.5 0.5 1.5 0.5 | 17 | 04:42 10:43 SÁB 17:08 23:33 | 1.3 0.6 1.3 0.7 | 01 | 00:15 06:10 DOM 12:12 18:42 | 0.6 1.2 0.6 1.4 | 17 | 00:18 06:19 TER 12:19 18:42 | 0.6 1.3 0.6 1.4 |
| 02 | 04:43 10:55 QUA 17:10 23:23 | 1.5 0.4 1.5 0.5 | 18 | 04:53 10:55 SEX 17:18 23:36 | 1.2 0.6 1.3 0.7 | 02 | 05:25 11:31 SEX 17:58 | 1.3 0.6 1.4 | 18 | 05:34 11:34 DOM 18:03 | 1.2 0.7 1.3 | 02 | 01:19 07:13 SEG 13:15 19:46 | 0.6 1.2 0.7 1.3 | 18 | 01:17 07:23 QUA 13:22 19:43 | 0.6 1.2 0.6 1.4 |
| 03 | 05:35 11:46 QUI 18:08 | 1.4 0.6 1.4 | 19 | 05:41 11:44 SÁB 18:15 | 1.2 0.7 1.2 | 03 | 00:30 06:31 SÁB 12:37 19:10 | 0.6 1.2 0.7 1.3 | 19 | 00:37 06:39 SEG 12:41 19:10 | 0.7 1.2 0.7 1.3 | 03 | 02:24 08:21 TER 14:23 20:50 | 0.7 1.1 0.7 1.3 | 19 | 02:21 08:31 QUI 14:31 20:46 | 0.6 1.3 0.6 1.4 |
| 04 | 00:32 06:41 SEX 12:54 19:26 | 0.6 1.2 0.7 1.3 | 20 | 00:48 06:52 DOM 13:00 19:37 | 0.8 1.1 0.8 1.2 | 04 | 01:54 07:52 DOM 14:01 20:31 | 0.7 1.1 0.7 1.3 | 20 | 01:52 07:56 TER 13:59 20:21 | 0.7 1.2 0.7 1.3 | 04 | 03:26 09:29 QUA 15:30 21:49 | 0.7 1.2 0.7 1.3 | 20 | 03:24 09:38 SEX 15:39 21:50 | 0.5 1.3 0.6 1.4 |
| 05 | 02:08 08:13 SÁB 14:34 21:03 | 0.7 1.1 0.7 1.3 | 21 | 02:27 08:30 SEG 14:40 21:06 | 0.8 1.1 0.8 1.2 | 05 | 03:20 09:19 SEG 15:25 21:46 | 0.7 1.1 0.7 1.3 | 21 | 03:04 09:12 QUA 15:14 21:28 | 0.6 1.2 0.7 1.4 | 05 | 04:19 10:27 QUI 16:29 22:41 | 0.7 1.2 0.7 1.3 | 21 | 04:25 10:41 SÁB 16:44 22:52 | 0.5 1.3 0.6 1.4 |
| 06 | 03:55 09:57 DOM 16:11 22:28 | 0.7 1.1 0.7 1.3 | 22 | 03:51 09:56 TER 16:01 22:15 | 0.7 1.2 0.7 1.3 | 06 | 04:27 10:27 TER 16:30 22:44 | 0.6 1.2 0.7 1.3 | 22 | 04:05 10:16 QUI 16:16 22:26 | 0.6 1.3 0.6 1.4 | 06 | 05:04 11:16 SEX 17:19 23:26 | 0.6 1.2 0.7 1.3 | 22 | 05:21 11:37 DOM 17:44 23:51 | 0.5 1.4 0.5 1.5 |
| 07 | 05:09 11:09 SEG 17:15 23:26 | 0.6 1.2 0.7 1.4 | 23 | 04:50 10:56 QUA 16:59 23:08 | 0.6 1.3 0.6 1.4 | 07 | 05:15 11:17 QUA 17:20 23:29 | 0.6 1.2 0.6 1.4 | 23 | 04:58 11:10 SEX 17:11 23:19 | 0.5 1.4 0.5 1.5 | 07 | 05:44 11:59 SÁB 18:03 | 0.6 1.3 0.6 | 23 | 06:15 12:30 SEG 18:42 | 0.4 1.5 0.5 |
| 08 | 05:57 11:55 TER 18:00 | 0.6 1.3 0.6 | 24 | 05:36 11:44 QUI 17:46 23:54 | 0.5 1.4 0.5 1.5 | 08 | 05:52 11:56 QUI 18:00 | 0.6 1.3 0.6 | 24 | 05:46 11:59 SÁB 18:02 | 0.4 1.5 0.5 | 08 | 00:07 06:21 DOM 12:37 18:44 | 1.3 0.6 1.3 0.6 | 24 | 00:47 07:05 TER 13:21 19:36 | 1.5 0.4 1.5 0.4 |
| 09 | 00:09 06:33 QUA 12:31 18:36 | 1.4 0.5 1.3 0.5 | 25 | 06:19 12:27 SEX 18:29 | 0.4 1.5 0.4 | 09 | 00:07 06:24 SEX 12:31 18:35 | 1.4 0.5 1.4 0.6 | 25 | 00:09 06:33 DOM 12:45 18:51 | 1.6 0.3 1.5 0.4 | 09 | 00:46 06:56 SEG 13:12 19:22 | 1.3 0.5 1.4 0.6 | 25 | 01:40 07:54 QUA 14:10 20:29 | 1.5 0.4 1.6 0.4 |
| 10 | 00:44 07:03 QUI 13:03 19:07 | 1.5 0.5 1.4 0.5 | 26 | 00:37 07:00 SÁB 13:09 19:12 | 1.6 0.3 1.6 0.3 | 10 | 00:41 06:54 SÁB 13:03 19:08 | 1.4 0.5 1.4 0.5 | 26 | 00:59 07:18 SEG 13:32 19:40 | 1.6 0.3 1.6 0.4 | 10 | 01:22 07:30 TER 13:46 19:59 | 1.3 0.5 1.4 0.6 | 26 | 02:31 08:40 QUI 14:58 21:19 | 1.5 0.4 1.6 0.4 |
| 11 | 01:16 07:30 SEX 13:33 19:37 | 1.5 0.5 1.4 0.5 | 27 | 01:21 07:41 DOM 13:51 19:56 | 1.7 0.2 1.6 0.3 | 11 | 01:13 07:24 DOM 13:35 19:40 | 1.4 0.5 1.4 0.5 | 27 | 01:48 08:04 TER 14:19 20:31 | 1.6 0.3 1.6 0.4 | 11 | 01:58 08:04 QUA 14:21 20:35 | 1.3 0.5 1.4 0.6 | 27 | 03:19 09:25 SEX 15:45 22:08 | 1.4 0.4 1.6 0.4 |
| 12 | 01:46 07:56 SÁB 14:02 20:06 | 1.5 0.4 1.5 0.4 | 28 | 02:06 08:23 SEG 14:34 20:41 | 1.7 0.2 1.7 0.3 | 12 | 01:45 07:53 SEG 14:06 20:13 | 1.4 0.5 1.4 0.5 | 28 | 02:38 08:50 QUA 15:06 21:23 | 1.5 0.3 1.6 0.4 | 12 | 02:34 08:38 QUI 14:56 21:13 | 1.3 0.5 1.5 0.5 | 28 | 04:06 10:10 SÁB 16:32 22:56 | 1.4 0.4 1.6 0.5 |
| 13 | 02:15 08:23 DOM 14:30 20:35 | 1.5 0.4 1.5 0.5 | 29 | 02:51 09:06 TER 15:19 21:29 | 1.7 0.3 1.6 0.3 | 13 | 02:17 08:23 TER 14:37 20:46 | 1.4 0.5 1.5 0.5 | 29 | 03:28 09:37 QUI 15:56 22:18 | 1.5 0.4 1.6 0.4 | 13 | 03:12 09:14 SEX 15:33 21:53 | 1.3 0.5 1.5 0.5 | 29 | 04:52 10:53 DOM 17:18 23:43 | 1.3 0.5 1.5 0.5 |
| 14 | 02:43 08:50 SEG 14:59 21:05 | 1.5 0.4 1.5 0.5 | 30 | 03:39 09:50 QUA 16:06 22:21 | 1.6 0.4 1.6 0.4 | 14 | 02:49 08:53 QUA 15:09 21:21 | 1.4 0.5 1.4 0.5 | 30 | 04:20 10:25 SEX 16:48 23:14 | 1.4 0.5 1.5 0.5 | 14 | 03:51 09:53 SÁB 16:14 22:36 | 1.3 0.5 1.5 0.6 | 30 | 05:37 11:37 SEG 18:05 | 1.3 0.6 1.4 |
| 15 | 03:12 09:18 TER 15:29 21:35 | 1.4 0.5 1.4 0.5 | | | | 15 | 03:23 09:26 QUI 15:43 21:58 | 1.3 0.5 1.4 0.6 | 31 | 05:13 11:16 SÁB 17:43 | 1.3 0.5 1.5 | 15 | 04:35 10:35 DOM 16:58 23:24 | 1.3 0.5 1.4 0.6 | | | |
| 16 | 03:43 09:47 QUA 16:00 22:09 | 1.4 0.5 1.4 0.6 | | | | 16 | 04:00 10:01 SEX 16:22 22:41 | 1.3 0.6 1.4 0.6 | | | | 16 | 05:24 11:24 SEG 17:47 | 1.3 0.6 1.4 | | | |

Porto de Horta (Ilha do Faial)

Latitude 38° 31.99' N Longitude 28° 37.24' W

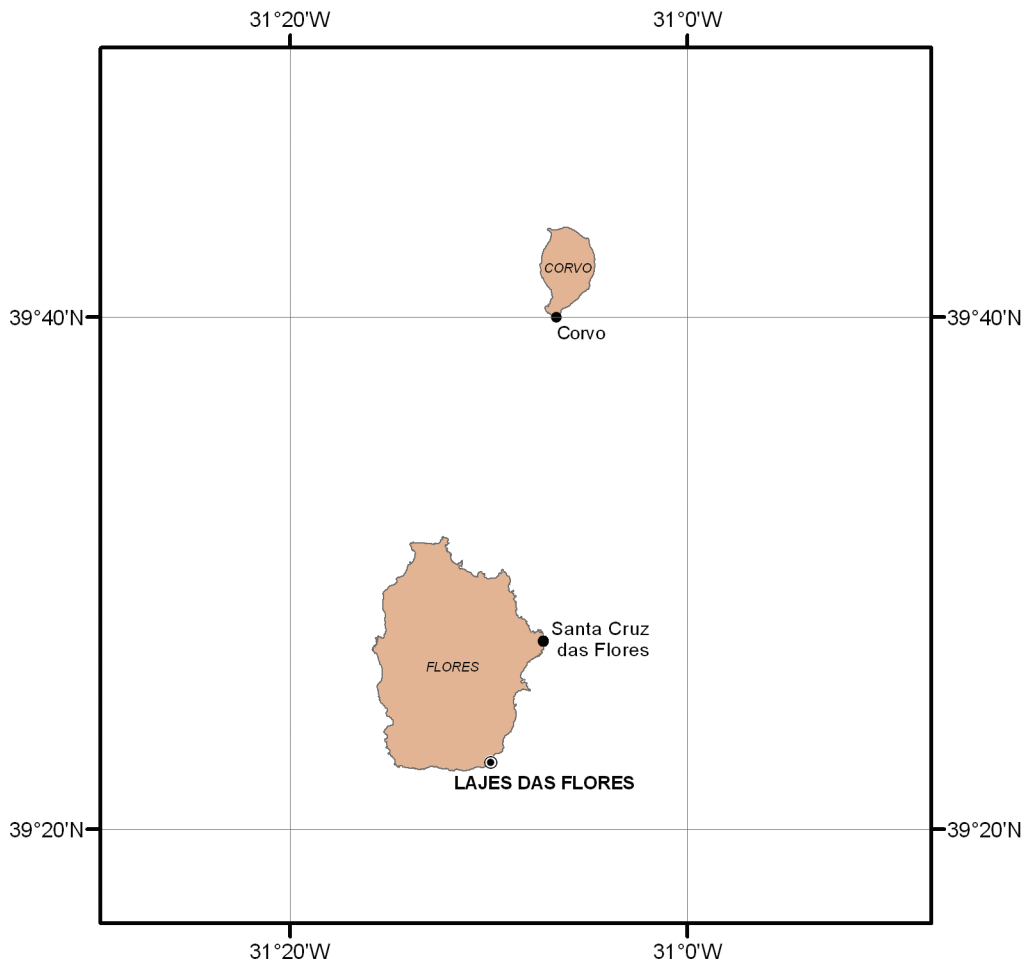
Horas do Fuso: 0 (TU)

Ano: 2025

| JULHO | | | | AGOSTO | | | | SETEMBRO | | | | | | | | | |
|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|-----------|--------------------------------------|--------------------------|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | |
| 01 | 00:30 06:25 TER 12:24 18:53 | 0.6 1.2 0.6 1.4 | 17 | 00:42 06:50 QUI 12:50 19:09 | 0.5 1.3 0.6 1.4 | 01 | 01:01 07:10 SEX 13:14 19:36 | 0.7 1.2 0.7 1.2 | 17 | 02:22 08:47 DOM 15:07 21:17 | 0.6 1.3 0.7 1.2 | 01 | 02:13 08:53 SEG 15:31 21:36 | 0.8 1.1 0.8 1.1 | 17 | 05:06 11:19 QUA 17:51 23:50 | 0.6 1.4 0.6 1.3 |
| 02 | 01:19 07:18 QUA 13:18 19:46 | 0.6 1.2 0.7 1.3 | 18 | 01:41 07:54 SEX 13:56 20:13 | 0.5 1.3 0.6 1.4 | 02 | 01:59 08:20 SÁB 14:31 20:47 | 0.7 1.1 0.8 1.2 | 18 | 03:52 10:14 SEG 16:42 22:45 | 0.7 1.3 0.7 1.2 | 02 | 03:54 10:28 TER 16:58 22:58 | 0.8 1.2 0.8 1.1 | 18 | 05:58 12:08 QUI 18:35 | 0.6 1.5 0.5 |
| 03 | 02:13 08:19 QUI 14:21 20:44 | 0.7 1.2 0.7 1.2 | 19 | 02:49 09:07 SÁB 15:13 21:25 | 0.6 1.3 0.7 1.3 | 03 | 03:13 09:46 DOM 16:03 22:09 | 0.7 1.1 0.8 1.1 | 19 | 05:10 11:26 TER 17:54 23:53 | 0.6 1.4 0.6 1.3 | 03 | 05:06 11:26 QUA 17:51 23:49 | 0.7 1.3 0.7 1.2 | 19 | 00:32 06:38 SEX 12:48 19:11 | 1.3 0.5 1.5 0.4 |
| 04 | 03:11 09:28 SEX 15:31 21:46 | 0.7 1.2 0.7 1.2 | 20 | 04:01 10:21 DOM 16:33 22:40 | 0.6 1.3 0.6 1.3 | 04 | 04:29 11:00 SEG 17:18 23:18 | 0.7 1.2 0.7 1.2 | 20 | 06:09 12:21 QUA 18:47 | 0.5 1.5 0.5 | 04 | 05:54 12:08 QUI 18:30 | 0.6 1.4 0.6 | 20 | 01:08 07:13 SÁB 13:24 19:42 | 1.4 0.4 1.6 0.4 |
| 05 | 04:10 10:33 SÁB 16:39 22:46 | 0.7 1.2 0.7 1.2 | 21 | 05:09 11:28 SEG 17:44 23:47 | 0.6 1.4 0.6 1.3 | 05 | 05:30 11:53 TER 18:12 | 0.7 1.3 0.7 | 21 | 00:45 06:55 QUI 13:07 19:30 | 1.4 0.5 1.5 0.4 | 05 | 00:29 06:32 SEX 12:44 19:04 | 1.3 0.5 1.5 0.5 | 21 | 01:41 07:45 DOM 13:57 20:11 | 1.5 0.4 1.6 0.4 |
| 06 | 05:05 11:28 DOM 17:37 23:39 | 0.7 1.2 0.7 1.2 | 22 | 06:09 12:25 TER 18:45 | 0.5 1.4 0.5 | 06 | 00:10 06:17 QUA 12:35 18:55 | 1.2 0.6 1.3 0.6 | 22 | 01:27 07:34 SEX 13:47 20:08 | 1.4 0.4 1.6 0.4 | 06 | 01:04 07:08 SÁB 13:18 19:38 | 1.4 0.4 1.5 0.4 | 22 | 02:12 08:15 SEG 14:28 20:39 | 1.5 0.4 1.6 0.4 |
| 07 | 05:53 12:14 SEG 18:27 | 0.6 1.3 0.7 | 23 | 00:46 07:01 QUA 13:16 19:37 | 1.4 0.5 1.5 0.5 | 07 | 00:52 06:57 QUI 13:12 19:31 | 1.3 0.5 1.4 0.5 | 23 | 02:05 08:10 SÁB 14:24 20:43 | 1.5 0.4 1.6 0.4 | 07 | 01:40 07:43 DOM 13:54 20:13 | 1.5 0.4 1.6 0.3 | 23 | 02:42 08:45 TER 14:58 21:06 | 1.5 0.4 1.5 0.4 |
| 08 | 00:25 06:35 TER 12:54 19:09 | 1.3 0.6 1.4 0.6 | 24 | 01:36 07:47 QUI 14:02 20:24 | 1.4 0.4 1.6 0.4 | 08 | 01:29 07:33 SEX 13:47 20:06 | 1.4 0.5 1.5 0.5 | 24 | 02:40 08:44 DOM 14:59 21:15 | 1.5 0.4 1.6 0.4 | 08 | 02:16 08:19 SEG 14:30 20:49 | 1.6 0.3 1.7 0.3 | 24 | 03:12 09:14 QUA 15:27 21:34 | 1.5 0.4 1.5 0.5 |
| 09 | 01:07 07:13 QUA 13:31 19:48 | 1.3 0.5 1.4 0.6 | 25 | 02:22 08:29 SEX 14:45 21:07 | 1.4 0.4 1.6 0.4 | 09 | 02:05 08:08 SÁB 14:22 20:41 | 1.4 0.4 1.6 0.4 | 25 | 03:13 09:16 SEG 15:33 21:45 | 1.5 0.4 1.6 0.4 | 09 | 02:54 08:56 TER 15:09 21:27 | 1.6 0.3 1.7 0.3 | 25 | 03:42 09:44 QUI 15:57 22:03 | 1.4 0.5 1.4 0.5 |
| 10 | 01:45 07:50 QUI 14:07 20:25 | 1.3 0.5 1.5 0.5 | 26 | 03:04 09:08 SÁB 15:26 21:47 | 1.4 0.4 1.6 0.4 | 10 | 02:41 08:44 DOM 14:58 21:18 | 1.5 0.4 1.6 0.4 | 26 | 03:45 09:47 TER 16:05 22:16 | 1.4 0.4 1.5 0.5 | 10 | 03:33 09:36 QUA 15:50 22:07 | 1.6 0.3 1.7 0.3 | 26 | 04:12 10:17 SEX 16:28 22:34 | 1.4 0.6 1.3 0.6 |
| 11 | 02:22 08:26 SEX 14:42 21:03 | 1.4 0.5 1.5 0.5 | 27 | 03:43 09:46 DOM 16:06 22:24 | 1.4 0.4 1.6 0.4 | 11 | 03:19 09:21 SEG 15:36 21:56 | 1.5 0.4 1.6 0.3 | 27 | 04:17 10:19 QUA 16:36 22:46 | 1.4 0.5 1.5 0.5 | 11 | 04:16 10:19 QUI 16:33 22:50 | 1.5 0.4 1.6 0.4 | 27 | 04:46 10:53 SÁB 17:03 23:09 | 1.3 0.6 1.3 0.7 |
| 12 | 03:00 09:03 SÁB 15:20 21:41 | 1.4 0.5 1.5 0.5 | 28 | 04:20 10:22 SEG 16:43 23:00 | 1.4 0.4 1.5 0.5 | 12 | 03:58 10:00 TER 16:16 22:36 | 1.5 0.4 1.6 0.4 | 28 | 04:50 10:52 QUI 17:09 23:19 | 1.3 0.6 1.4 0.6 | 12 | 05:02 11:07 SEX 17:22 23:38 | 1.5 0.5 1.5 0.5 | 28 | 05:27 11:41 DOM 17:49 23:57 | 1.2 0.7 1.2 0.7 |
| 13 | 03:39 09:41 DOM 15:59 22:21 | 1.4 0.4 1.5 0.5 | 29 | 04:57 10:58 TER 17:21 23:37 | 1.3 0.5 1.5 0.6 | 13 | 04:41 10:42 QUA 16:58 23:19 | 1.5 0.4 1.6 0.4 | 29 | 05:26 11:30 SEX 17:46 23:58 | 1.3 0.7 1.3 0.7 | 13 | 05:55 12:06 SÁB 18:20 | 1.4 0.6 1.3 | 29 | 06:26 12:56 SEG 19:02 | 1.2 0.8 1.1 |
| 14 | 04:20 10:22 SEG 16:40 23:04 | 1.4 0.5 1.5 0.5 | 30 | 05:35 11:35 QUA 17:59 | 1.3 0.6 1.4 | 14 | 05:27 11:28 QUI 17:46 | 1.4 0.5 1.5 | 30 | 06:10 12:19 SÁB 18:34 | 1.2 0.7 1.2 | 14 | 00:39 07:04 DOM 13:28 19:40 | 0.6 1.3 0.7 1.2 | 30 | 01:18 08:00 TER 14:56 20:57 | 0.8 1.1 0.8 1.1 |
| 15 | 05:05 11:05 TER 17:25 23:50 | 1.4 0.5 1.5 0.5 | 31 | 00:16 06:18 QUI 12:19 18:42 | 0.6 1.2 0.7 1.3 | 15 | 00:08 06:20 SEX 12:23 18:40 | 0.5 1.4 0.6 1.4 | 31 | 00:51 07:14 DOM 13:36 19:49 | 0.7 1.1 0.8 1.1 | 15 | 02:07 08:37 SEG 15:18 21:23 | 0.7 1.3 0.7 1.2 | | | |
| 16 | 05:54 11:54 QUA 18:14 | 1.3 0.5 1.5 | | | | 16 | 01:06 07:25 SÁB 13:34 19:50 | 0.6 1.3 0.7 1.3 | | | | 16 | 03:50 10:11 TER 16:50 22:51 | 0.7 1.3 0.6 1.2 | | | |

203.5

LAJES DAS FLORES



PORTO DAS LAJES DAS FLORES (ILHA DAS FLORES)

NOTAS

1. **ANÁLISE HARMÓNICA:**

— Efetuada a partir de um ano de observações maregráficas, de 1 de janeiro de 2006 a 2 de janeiro de 2007.

2. **LOCALIZAÇÃO DO MARÉGRAFO (ATUALMENTE DESATIVADO):**

— No porto das Lajes das Flores:

Latitude 39° 22,71' N; Longitude 31° 10,12' W – WGS84.

3. **ALTURAS DE MARÉ:**

— Referidas ao nível do zero hidrográfico.

— Nível médio: 1,00 m.

4. **ZERO HIDROGRÁFICO:**

— 1,00 m abaixo do nível médio adotado (Santa Cruz das Flores, 1965).

— 4,167 m abaixo do taco com a inscrição MC IH OF 96, incrustado na aba de suporte da tampa do poço do marégrafo.

— 3,966 m abaixo do taco com a inscrição IH OC 01/003, incrustado a 0,05 m da face sul e a 1,20 m da face leste, onde se encontra o abrigo do marégrafo.

— 3,972 m abaixo do taco com a inscrição IH BH 09/10, cimentado a 0,40 m do topo e a 3,40 m da face sul, onde se encontra o abrigo do marégrafo.

— 3,868 m abaixo do taco com a inscrição IH BH2 13/92, incrustado no pavimento do cais de atracação de navios comerciais, próximo da esquina nordeste e de um cabeço.

Porto de Lajes das Flores (Ilha das Flores)

Latitude 39° 22.71' N Longitude 31° 10.12' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JANEIRO | | | | FEVEREIRO | | | | MARÇO | | | | | | | | | | | | | | | |
|-----------|-------|--------|-----------|-----------|--------|-----------|--------|-------|-----------|-------|--------|-----------|-------|-------|-----------|-------|-------|-------|-------|-----|-------|-------|-----|
| | Hora | Altura | | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | | | | | | | |
| 01 | 03:02 | 1.5 | 17 | 04:24 | 1.5 | 01 | 04:04 | 1.6 | 17 | 04:53 | 1.4 | 01 | 03:01 | 1.6 | 17 | 03:46 | 1.4 | | | | | | |
| | 09:13 | 0.6 | | 10:37 | 0.6 | | 10:19 | 0.4 | | 11:01 | 0.6 | | 09:14 | 0.3 | | 09:51 | 0.5 | | | | | | |
| | 15:19 | 1.4 | | SEX | 16:37 | | 1.3 | SÁB | | 16:26 | 1.4 | | SEG | 17:07 | | 1.3 | SÁB | 15:23 | 1.5 | SEG | 16:01 | 1.3 | |
| | 21:20 | 0.5 | | 22:38 | 0.6 | | 22:25 | 0.4 | | 23:05 | 0.6 | | 21:23 | 0.3 | | 22:00 | 0.5 | | | | | | |
| 02 | 03:42 | 1.5 | 18 | 05:01 | 1.4 | 02 | 04:46 | 1.5 | 18 | 05:26 | 1.3 | 02 | 03:40 | 1.6 | 18 | 04:15 | 1.3 | | | | | | |
| | 09:55 | 0.5 | | 11:14 | 0.6 | | 11:02 | 0.5 | | 11:33 | 0.6 | | 09:54 | 0.3 | | 10:19 | 0.5 | | | | | | |
| | QUI | 16:01 | | 1.4 | SÁB | | 17:14 | 1.3 | | DOM | 17:09 | | 1.4 | TER | | 17:42 | 1.2 | DOM | 16:03 | 1.5 | TER | 16:31 | 1.3 |
| | 22:01 | 0.5 | | 23:14 | 0.6 | | 23:09 | 0.5 | | 23:40 | 0.7 | | 22:04 | 0.4 | | 22:30 | 0.6 | | | | | | |
| 03 | 04:24 | 1.5 | 19 | 05:38 | 1.4 | 03 | 05:31 | 1.5 | 19 | 06:03 | 1.2 | 03 | 04:22 | 1.6 | 19 | 04:46 | 1.3 | | | | | | |
| | 10:39 | 0.6 | | 11:51 | 0.6 | | 11:48 | 0.5 | | 12:11 | 0.7 | | 10:35 | 0.4 | | 10:49 | 0.6 | | | | | | |
| | SEX | 16:45 | | 1.4 | DOM | | 17:53 | 1.2 | | SEG | 17:57 | | 1.3 | QUA | | 18:25 | 1.2 | SEG | 16:46 | 1.4 | QUA | 17:04 | 1.2 |
| | 22:44 | 0.5 | | 23:52 | 0.7 | | 23:59 | 0.6 | | 23:59 | 0.6 | | 22:48 | 0.4 | | 23:04 | 0.7 | | | | | | |
| 04 | 05:08 | 1.5 | 20 | 06:17 | 1.3 | 04 | 06:21 | 1.4 | 20 | 00:24 | 0.8 | 04 | 05:06 | 1.5 | 20 | 05:21 | 1.2 | | | | | | |
| | 11:26 | 0.6 | | 12:32 | 0.7 | | 12:41 | 0.6 | | 06:50 | 1.2 | | 11:20 | 0.5 | | 11:24 | 0.7 | | | | | | |
| | 17:32 | 1.3 | | SEG | 18:36 | | 1.2 | TER | | 18:54 | 1.3 | | QUI | 13:03 | | 0.8 | TER | 17:33 | 1.4 | QUI | 17:44 | 1.2 | |
| | 23:31 | 0.6 | | 23:52 | 0.7 | | 23:59 | 0.6 | | 19:27 | 1.1 | | 23:38 | 0.5 | | 23:47 | 0.7 | | | | | | |
| 05 | 05:57 | 1.4 | 21 | 00:35 | 0.7 | 05 | 00:58 | 0.6 | 21 | 01:35 | 0.8 | 05 | 05:56 | 1.4 | 21 | 06:06 | 1.1 | | | | | | |
| | 12:18 | 0.6 | | 07:02 | 1.2 | | 07:21 | 1.3 | | 08:02 | 1.1 | | 12:11 | 0.6 | | 12:11 | 0.7 | | | | | | |
| | DOM | 18:25 | | 1.3 | TER | | 13:21 | 0.7 | | QUA | 13:47 | | 0.7 | SEX | | 14:25 | 0.8 | QUA | 18:29 | 1.3 | SEX | 18:43 | 1.1 |
| | | | | ((| 19:29 | | 1.1 |) | | 20:05 | 1.2 | |) | 21:04 | | 1.1 | | | | | | | |
| 06 | 00:25 | 0.6 | 22 | 01:31 | 0.8 | 06 | 02:16 | 0.7 | 22 | 03:32 | 0.8 | 06 | 00:40 | 0.6 | 22 | 00:57 | 0.8 | | | | | | |
| | 06:51 | 1.4 | | 07:58 | 1.2 | | 08:36 | 1.2 | | 09:44 | 1.1 | | 06:58 | 1.2 | | 07:19 | 1.1 | | | | | | |
| | SEG | 13:18 | | 0.6 | QUA | | 14:23 | 0.8 | | QUI | 15:09 | | 0.7 | SÁB | | 16:07 | 0.8 | QUI | 13:17 | 0.7 | SÁB | 13:31 | 0.8 |
| |) | 19:27 | | 1.3 | 20:40 | | 1.1 | 21:32 | | 1.2 | 22:40 | | 1.1 |) | | 19:43 | 1.2 | ((| 20:19 | 1.1 | | | |
| 07 | 01:28 | 0.7 | 23 | 02:48 | 0.8 | 07 | 03:50 | 0.7 | 23 | 05:04 | 0.8 | 07 | 02:08 | 0.7 | 23 | 02:59 | 0.8 | | | | | | |
| | 07:53 | 1.4 | | 09:08 | 1.2 | | 10:06 | 1.2 | | 11:08 | 1.1 | | 08:24 | 1.1 | | 09:11 | 1.0 | | | | | | |
| | TER | 14:25 | | 0.7 | QUI | | 15:37 | 0.8 | | SEX | 16:35 | | 0.7 | DOM | | 17:18 | 0.7 | SEX | 14:52 | 0.7 | DOM | 15:25 | 0.8 |
| | 20:37 | 1.2 | | 22:02 | 1.1 | | 22:57 | 1.2 | | 23:41 | 1.2 | | 21:22 | 1.2 | | 22:00 | 1.1 | | | | | | |
| 08 | 02:41 | 0.7 | 24 | 04:14 | 0.8 | 08 | 05:16 | 0.7 | 24 | 06:00 | 0.7 | 08 | 03:57 | 0.7 | 24 | 04:33 | 0.7 | | | | | | |
| | 09:03 | 1.3 | | 10:24 | 1.2 | | 11:27 | 1.2 | | 12:03 | 1.2 | | 10:10 | 1.1 | | 10:39 | 1.1 | | | | | | |
| | QUA | 15:36 | | 0.7 | SEX | | 16:47 | 0.8 | | SÁB | 17:45 | | 0.6 | SÁB | | 16:31 | 0.7 | SEG | 16:43 | 0.7 | | | |
| | 21:52 | 1.3 | | 23:13 | 1.2 | | 23:59 | 0.6 | | 18:07 | 0.6 | | 22:53 | 1.2 | | 23:05 | 1.2 | | | | | | |
| 09 | 03:58 | 0.7 | 25 | 05:24 | 0.8 | 09 | 00:03 | 1.3 | 25 | 00:26 | 1.3 | 09 | 05:23 | 0.7 | 25 | 05:29 | 0.6 | | | | | | |
| | 10:16 | 1.3 | | 11:29 | 1.2 | | 06:22 | 0.6 | | 06:42 | 0.6 | | 11:31 | 1.2 | | 11:35 | 1.2 | | | | | | |
| | QUI | 16:45 | | 0.6 | SÁB | | 17:43 | 0.7 | | DOM | 12:28 | | 1.3 | TER | | 12:47 | 1.3 | DOM | 17:40 | 0.7 | TER | 17:36 | 0.6 |
| | 23:03 | 1.3 | | 23:59 | 0.6 | | 18:38 | 0.6 | | 18:49 | 0.5 | | 23:55 | 1.3 | | 23:53 | 1.3 | | | | | | |
| 10 | 05:11 | 0.7 | 26 | 00:06 | 1.2 | 10 | 00:54 | 1.4 | 26 | 01:06 | 1.4 | 10 | 06:20 | 0.6 | 26 | 06:12 | 0.5 | | | | | | |
| | 11:24 | 1.3 | | 06:17 | 0.7 | | 07:12 | 0.6 | | 07:21 | 0.5 | | 12:25 | 1.2 | | 12:20 | 1.3 | | | | | | |
| | SEX | 17:46 | | 0.6 | DOM | | 12:21 | 1.2 | | SEG | 13:15 | | 1.3 | QUA | | 13:27 | 1.4 | SEG | 18:29 | 0.6 | QUA | 18:19 | 0.5 |
| | | | | 18:29 | 0.6 | | 19:21 | 0.5 | | 19:28 | 0.4 | | 19:28 | 0.4 | | | | | | | | | |
| 11 | 00:04 | 1.4 | 27 | 00:50 | 1.3 | 11 | 01:36 | 1.4 | 27 | 01:44 | 1.5 | 11 | 00:41 | 1.4 | 27 | 00:34 | 1.4 | | | | | | |
| | 06:14 | 0.6 | | 07:02 | 0.6 | | 07:53 | 0.5 | | 07:58 | 0.4 | | 07:01 | 0.5 | | 06:51 | 0.4 | | | | | | |
| | SÁB | 12:24 | | 1.4 | SEG | | 13:06 | 1.3 | | TER | 13:54 | | 1.4 | QUI | | 14:05 | 1.5 | TER | 13:04 | 1.3 | QUI | 13:00 | 1.4 |
| | 18:39 | 0.6 | | 19:10 | 0.6 | | 19:59 | 0.5 | | 20:06 | 0.4 | | 19:07 | 0.5 | | 19:00 | 0.4 | | | | | | |
| 12 | 00:57 | 1.4 | 28 | 01:30 | 1.4 | 12 | 02:14 | 1.5 | 28 | 02:22 | 1.6 | 12 | 01:18 | 1.4 | 28 | 01:14 | 1.5 | | | | | | |
| | 07:09 | 0.6 | | 07:42 | 0.6 | | 08:28 | 0.5 | | 08:36 | 0.4 | | 07:35 | 0.5 | | 07:30 | 0.3 | | | | | | |
| | DOM | 13:16 | | 1.4 | TER | | 13:46 | 1.4 | | QUA | 14:30 | | 1.4 | QUA | | 13:37 | 1.3 | SEX | 13:40 | 1.5 | | | |
| | 19:26 | 0.5 | | 19:49 | 0.5 | | 20:33 | 0.5 | | 20:44 | 0.3 | | 19:40 | 0.5 | | 19:40 | 0.3 | | | | | | |
| 13 | 01:44 | 1.5 | 29 | 02:08 | 1.5 | 13 | 02:48 | 1.5 | 29 | 02:22 | 1.6 | 13 | 01:51 | 1.4 | 29 | 01:54 | 1.6 | | | | | | |
| | 07:58 | 0.5 | | 08:20 | 0.5 | | 09:01 | 0.5 | | 09:01 | 0.5 | | 08:04 | 0.5 | | 08:09 | 0.3 | | | | | | |
| | SEG | 14:02 | | 1.4 | QUA | | 14:26 | 1.4 | | QUI | 15:02 | | 1.4 | QUI | | 14:07 | 1.4 | SÁB | 14:19 | 1.5 | | | |
| | ○ | 20:09 | | 0.5 | ● | | 20:27 | 0.4 | | 21:05 | 0.5 | | 20:06 | 0.4 | | 20:09 | 0.5 | ● | 20:20 | 0.3 | | | |
| 14 | 02:27 | 1.5 | 30 | 02:46 | 1.5 | 14 | 03:20 | 1.5 | 30 | 02:21 | 1.5 | 14 | 02:21 | 1.5 | 30 | 02:35 | 1.6 | | | | | | |
| | 08:42 | 0.5 | | 08:59 | 0.5 | | 09:31 | 0.5 | | 09:31 | 0.5 | | 08:31 | 0.4 | | 08:48 | 0.3 | | | | | | |
| | TER | 14:44 | | 1.4 | QUI | | 15:05 | 1.5 | | SEX | 15:34 | | 1.4 | SEX | | 14:35 | 1.4 | DOM | 14:59 | 1.5 | | | |
| | 20:49 | 0.5 | | 21:05 | 0.4 | | 21:35 | 0.5 | | 21:35 | 0.5 | | 20:37 | 0.5 | | 21:02 | 0.3 | | | | | | |
| 15 | 03:08 | 1.5 | 31 | 03:24 | 1.6 | 15 | 03:52 | 1.5 | 31 | 02:49 | 1.5 | 15 | 02:49 | 1.5 | 31 | 03:17 | 1.6 | | | | | | |
| | 09:22 | 0.5 | | 09:38 | 0.4 | | 10:01 | 0.5 | | 10:01 | 0.5 | | 08:57 | 0.4 | | 09:29 | 0.3 | | | | | | |
| | QUA | 15:23 | | 1.4 | SEX | | 15:45 | 1.5 | | SÁB | 16:04 | | 1.4 | SÁB | | 15:03 | 1.4 | SEG | 15:41 | 1.5 | | | |
| | 21:26 | 0.5 | | 21:44 | 0.4 | | 22:05 | 0.5 | | 22:05 | 0.5 | | 21:05 | 0.5 | | 21:45 | 0.3 | | | | | | |
| 16 | 03:46 | 1.5 | 16 | 04:22 | 1.4 | 16 | 04:22 | 1.4 | 16 | 03:18 | 1.4 | 16 | 03:18 | 1.4 | 16 | 03:17 | 1.6 | | | | | | |
| | 10:00 | 0.5 | | 10:30 | 0.5 | | 10:30 | 0.5 | | 10:30 | 0.5 | | 09:24 | 0.5 | | 09:29 | 0.3 | | | | | | |
| | QUI | 16:00 | | 1.4 | 16:35 | | 1.3 | 16:35 | | 1.3 | 15:32 | | 1.4 | 15:32 | | 1.4 | 15:41 | 1.5 | | | | | |
| | 22:03 | 0.5 | | 22:35 | 0.6 | | 22:35 | 0.6 | | 22:35 | 0.6 | | 21:32 | 0.5 | | 21:32 | 0.5 | | | | | | |

Porto de Lajes das Flores (Ilha das Flores)

Latitude 39° 22.71' N Longitude 31° 10.12' W

Horas do Fuso: 0 (TU)

Ano: 2025

| ABRIL | | | MAIO | | | JUNHO | | | | | | | | | | | |
|-----------|----------------------------------|--------------------------|-----------|----------------------------------|--------------------------|-----------|----------------------------------|--------------------------|-----------|----------------------------------|--------------------------|-----------|----------------------------------|--------------------------|-----------|----------------------------------|--------------------------|
| Hora | Altura | | Hora | Altura | | Hora | Altura | | | | | | | | | | |
| 01 | 04:00 10:11 16:25 22:32 | 1.5 0.4 1.5 0.4 | 17 | 04:19 10:20 16:41 22:45 | 1.2 0.6 1.2 0.6 | 01 | 04:33 10:40 17:02 23:20 | 1.3 0.5 1.4 0.5 | 17 | 04:50 10:48 17:17 23:33 | 1.2 0.6 1.2 0.7 | 01 | 00:15 06:15 12:20 18:49 | 0.6 1.2 0.6 1.3 | 17 | 00:17 06:24 12:22 18:50 | 0.6 1.2 0.6 1.3 |
| 02 | 04:47 10:56 17:14 23:26 | 1.4 0.5 1.4 0.5 | 18 | 04:58 10:58 17:25 23:34 | 1.2 0.6 1.2 0.7 | 02 | 05:29 11:35 18:03 | 1.2 0.6 1.3 | 18 | 05:42 11:40 18:14 | 1.1 0.6 1.2 | 02 | 01:21 07:20 13:28 19:53 | 0.6 1.1 0.7 1.2 | 18 | 01:16 07:25 13:25 19:50 | 0.6 1.2 0.6 1.3 |
| 03 | 05:39 11:49 18:13 | 1.3 0.6 1.3 | 19 | 05:48 11:48 18:25 | 1.1 0.7 1.1 | 03 | 00:31 06:36 12:44 19:16 | 0.6 1.1 0.6 1.2 | 19 | 00:38 06:47 12:46 19:20 | 0.7 1.1 0.7 1.2 | 03 | 02:29 08:30 14:39 20:58 | 0.6 1.1 0.7 1.2 | 19 | 02:20 08:31 14:32 20:53 | 0.6 1.2 0.6 1.3 |
| 04 | 00:35 06:46 12:59 19:32 | 0.6 1.2 0.7 1.2 | 20 | 00:48 07:02 13:05 19:48 | 0.7 1.1 0.7 1.1 | 04 | 01:56 07:59 14:12 20:39 | 0.6 1.1 0.7 1.2 | 20 | 01:53 08:02 14:02 20:30 | 0.7 1.1 0.7 1.2 | 04 | 03:31 09:37 15:44 21:56 | 0.6 1.1 0.7 1.2 | 20 | 03:24 09:38 15:39 21:57 | 0.6 1.2 0.6 1.3 |
| 05 | 02:10 08:18 14:39 21:09 | 0.7 1.1 0.7 1.2 | 21 | 02:28 08:38 14:43 21:14 | 0.7 1.1 0.7 1.2 | 05 | 03:21 09:27 15:36 21:53 | 0.6 1.1 0.7 1.2 | 21 | 03:04 09:14 15:14 21:35 | 0.6 1.1 0.6 1.3 | 05 | 04:23 10:34 16:38 22:46 | 0.6 1.1 0.7 1.2 | 21 | 04:25 10:41 16:43 22:59 | 0.5 1.3 0.6 1.3 |
| 06 | 03:53 10:03 16:14 22:33 | 0.7 1.1 0.7 1.2 | 22 | 03:50 09:59 16:00 22:20 | 0.7 1.1 0.7 1.2 | 06 | 04:28 10:36 16:40 22:51 | 0.6 1.1 0.7 1.2 | 22 | 04:05 10:17 16:16 22:33 | 0.6 1.2 0.6 1.3 | 06 | 05:08 11:20 17:24 23:29 | 0.6 1.2 0.7 1.2 | 22 | 05:22 11:39 17:43 23:57 | 0.5 1.3 0.5 1.4 |
| 07 | 05:07 11:16 17:19 23:31 | 0.6 1.1 0.6 1.3 | 23 | 04:48 10:58 16:57 23:13 | 0.6 1.2 0.6 1.3 | 07 | 05:17 11:25 17:28 23:35 | 0.6 1.2 0.6 1.3 | 23 | 04:58 11:11 17:11 23:26 | 0.5 1.3 0.5 1.4 | 07 | 05:46 12:00 18:04 | 0.6 1.2 0.6 | 23 | 06:15 12:33 18:40 | 0.5 1.4 0.5 |
| 08 | 05:57 12:03 18:05 | 0.6 1.2 0.6 | 24 | 05:35 11:46 17:45 23:59 | 0.5 1.3 0.5 1.4 | 08 | 05:55 12:03 18:06 | 0.6 1.2 0.6 | 24 | 05:47 12:01 18:02 | 0.4 1.4 0.4 | 08 | 00:08 06:21 12:36 18:41 | 1.2 0.6 1.2 0.6 | 24 | 00:52 07:06 13:24 19:34 | 1.4 0.4 1.4 0.4 |
| 09 | 00:14 06:34 12:39 18:41 | 1.3 0.5 1.3 0.5 | 25 | 06:18 12:30 18:30 | 0.4 1.4 0.4 | 09 | 00:12 06:27 12:36 18:39 | 1.3 0.5 1.3 0.6 | 25 | 00:16 06:34 12:49 18:52 | 1.4 0.4 1.4 0.4 | 09 | 00:46 06:55 13:12 19:17 | 1.3 0.5 1.3 0.6 | 25 | 01:44 07:54 14:13 20:26 | 1.4 0.4 1.5 0.4 |
| 10 | 00:49 07:04 13:10 19:12 | 1.4 0.5 1.3 0.5 | 26 | 00:44 07:00 13:12 19:14 | 1.5 0.3 1.5 0.3 | 10 | 00:44 06:55 13:06 19:09 | 1.3 0.5 1.3 0.5 | 26 | 01:05 07:20 13:35 19:41 | 1.5 0.3 1.5 0.4 | 10 | 01:23 07:29 13:48 19:54 | 1.3 0.5 1.3 0.6 | 26 | 02:34 08:41 15:01 21:16 | 1.4 0.4 1.5 0.4 |
| 11 | 01:20 07:31 13:38 19:40 | 1.4 0.5 1.3 0.5 | 27 | 01:27 07:42 13:55 19:58 | 1.5 0.3 1.5 0.3 | 11 | 01:15 07:24 13:36 19:39 | 1.3 0.5 1.3 0.5 | 27 | 01:54 08:05 14:22 20:31 | 1.5 0.3 1.5 0.4 | 11 | 02:01 08:04 14:24 20:32 | 1.3 0.5 1.3 0.6 | 27 | 03:21 09:27 15:48 22:05 | 1.4 0.4 1.5 0.5 |
| 12 | 01:48 07:57 14:05 20:08 | 1.4 0.5 1.4 0.5 | 28 | 02:11 08:24 14:38 20:43 | 1.5 0.3 1.5 0.3 | 12 | 01:47 07:53 14:07 20:11 | 1.3 0.5 1.3 0.5 | 28 | 02:42 08:51 15:10 21:22 | 1.4 0.4 1.5 0.4 | 12 | 02:39 08:40 15:02 21:11 | 1.3 0.5 1.3 0.6 | 28 | 04:08 10:12 16:35 22:54 | 1.3 0.5 1.4 0.5 |
| 13 | 02:17 08:23 14:33 20:35 | 1.4 0.4 1.4 0.5 | 29 | 02:56 09:07 15:23 21:31 | 1.5 0.3 1.5 0.4 | 13 | 02:19 08:23 14:39 20:43 | 1.3 0.5 1.3 0.5 | 29 | 03:32 09:38 16:00 22:16 | 1.4 0.4 1.5 0.5 | 13 | 03:18 09:17 15:41 21:52 | 1.3 0.5 1.3 0.6 | 29 | 04:55 10:58 17:22 23:42 | 1.3 0.5 1.4 0.5 |
| 14 | 02:46 08:50 15:02 21:04 | 1.4 0.5 1.4 0.5 | 30 | 03:43 09:52 16:10 22:22 | 1.4 0.4 1.4 0.4 | 14 | 02:52 08:54 15:13 21:18 | 1.3 0.5 1.3 0.6 | 30 | 04:22 10:27 16:52 23:13 | 1.3 0.5 1.4 0.5 | 14 | 03:58 09:57 16:22 22:35 | 1.3 0.5 1.3 0.6 | 30 | 05:42 11:45 18:10 | 1.2 0.6 1.3 |
| 15 | 03:15 09:18 15:32 21:34 | 1.3 0.5 1.3 0.5 | | | | 15 | 03:28 09:28 15:50 21:56 | 1.3 0.5 1.3 0.6 | 31 | 05:16 11:20 17:48 | 1.2 0.5 1.3 | 15 | 04:42 10:40 17:07 23:23 | 1.2 0.5 1.3 0.6 | | | |
| 16 | 03:46 09:48 16:05 22:07 | 1.3 0.5 1.3 0.6 | | | | 16 | 04:06 10:05 16:30 22:40 | 1.2 0.6 1.3 0.6 | | | | 16 | 05:30 11:28 17:55 | 1.2 0.6 1.3 | | | |

Porto de Lajes das Flores (Ilha das Flores)

Latitude 39° 22.71' N Longitude 31° 10.12' W

Horas do Fuso: 0 (TU)

Ano: 2025

| JULHO | | | AGOSTO | | | | SETEMBRO | | | | | | | | | | |
|-----------------------|-------|--------|-----------------------|--------|------|-----------------------|----------|--------|-----------------------|--------|-------|-----------------------|-------|-----|-----------------------|-------|-----|
| | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | | | | | |
| 01 TER | 00:32 | 0.6 | 17 QUI | 00:40 | 0.6 | 01 SEX) | 01:03 | 0.7 | 17 DOM | 02:09 | 0.8 | 17 QUA | 05:06 | 0.7 | | | |
| | 06:31 | 1.2 | | 06:50 | 1.2 | | 07:11 | 1.1 | | 08:45 | 1.2 | | 08:48 | 1.1 | 11:24 | 1.3 | |
| | 12:36 | 0.6 | | 12:51 | 0.6 | | 13:16 | 0.8 | | 15:02 | 0.7 | | 15:20 | 0.9 | 17:48 | 0.6 | |
| | 18:59 | 1.3 | | 19:14 | 1.3 | | 19:39 | 1.2 | | 21:20 | 1.2 | | 21:30 | 1.1 | | 23:54 | 1.3 |
| 02 QUA) | 01:24 | 0.6 | 18 SEX (| 01:40 | 0.6 | 02 SÁB | 02:00 | 0.7 | 18 SEG | 03:51 | 0.7 | 02 TER | 03:54 | 0.8 | 18 QUI | 06:00 | 0.6 |
| | 07:25 | 1.1 | | 07:53 | 1.2 | | 08:16 | 1.1 | | 10:15 | 1.2 | | 10:27 | 1.1 | | 12:15 | 1.4 |
| | 13:31 | 0.7 | | 13:57 | 0.6 | | 14:28 | 0.8 | | 16:35 | 0.7 | | 16:53 | 0.8 | | 18:35 | 0.6 |
| | 19:53 | 1.2 | | 20:19 | 1.3 | | 20:46 | 1.1 | | 22:48 | 1.2 | | 22:54 | 1.1 | | | |
| 03 QUI | 02:19 | 0.7 | 19 SÁB | 02:48 | 0.6 | 03 DOM | 03:13 | 0.8 | 19 TER | 05:08 | 0.7 | 03 QUA | 05:06 | 0.8 | 19 SEX | 00:38 | 1.3 |
| | 08:25 | 1.1 | | 09:05 | 1.2 | | 09:39 | 1.1 | | 11:29 | 1.3 | | 11:28 | 1.2 | | 06:42 | 0.6 |
| | 14:33 | 0.7 | | 15:12 | 0.6 | | 15:56 | 0.8 | | 17:48 | 0.6 | | 17:48 | 0.7 | | 12:55 | 1.5 |
| | 20:50 | 1.2 | | 21:31 | 1.3 | | 22:05 | 1.1 | | 23:56 | 1.3 | | 23:49 | 1.2 | | 19:12 | 0.5 |
| 04 SEX | 03:17 | 0.7 | 20 DOM | 04:01 | 0.6 | 04 SEG | 04:29 | 0.8 | 20 QUA | 06:08 | 0.6 | 04 QUI | 05:53 | 0.7 | 20 SÁB | 01:15 | 1.4 |
| | 09:29 | 1.1 | | 10:20 | 1.2 | | 10:55 | 1.1 | | 12:25 | 1.4 | | 12:12 | 1.3 | | 07:18 | 0.5 |
| | 15:38 | 0.7 | | 16:29 | 0.6 | | 17:11 | 0.8 | | 18:43 | 0.6 | | 18:28 | 0.7 | | 13:30 | 1.5 |
| | 21:48 | 1.2 | | 22:45 | 1.3 | | 23:15 | 1.1 | | | | | | | 19:44 | 0.5 | |
| 05 SÁB | 04:14 | 0.7 | 21 SEG | 05:09 | 0.6 | 05 TER | 05:30 | 0.7 | 21 QUI | 00:49 | 1.3 | 05 SEX | 00:31 | 1.3 | 21 DOM ● | 01:47 | 1.4 |
| | 10:31 | 1.1 | | 11:29 | 1.3 | | 11:52 | 1.2 | | 06:56 | 0.5 | | 06:32 | 0.6 | | 07:50 | 0.5 |
| | 16:39 | 0.7 | | 17:40 | 0.6 | | 18:06 | 0.7 | | 13:12 | 1.5 | | 12:49 | 1.4 | | 14:02 | 1.5 |
| | 22:46 | 1.2 | | 23:52 | 1.3 | | | | 19:28 | 0.5 | | 19:04 | 0.6 | | 20:13 | 0.5 | |
| 06 DOM | 05:06 | 0.7 | 22 TER | 06:08 | 0.5 | 06 QUA | 00:09 | 1.2 | 22 SEX | 01:32 | 1.4 | 06 SÁB | 01:08 | 1.4 | 22 SEG | 02:17 | 1.4 |
| | 11:25 | 1.2 | | 12:27 | 1.4 | | 06:17 | 0.6 | | 07:37 | 0.5 | | 07:09 | 0.5 | | 08:20 | 0.5 |
| | 17:33 | 0.7 | | 18:40 | 0.5 | | 12:37 | 1.3 | | 13:52 | 1.5 | | 13:25 | 1.5 | | 14:33 | 1.5 |
| | 23:38 | 1.2 | | | | | 18:50 | 0.7 | | 20:07 | 0.5 | | 19:39 | 0.5 | | 20:41 | 0.5 |
| 07 SEG | 05:52 | 0.6 | 23 QUA | 00:49 | 1.3 | 07 QUI | 00:53 | 1.3 | 23 SÁB ● | 02:10 | 1.4 | 07 DOM ○ | 01:44 | 1.5 | 23 TER | 02:47 | 1.5 |
| | 12:12 | 1.2 | | 07:01 | 0.5 | | 06:57 | 0.6 | | 08:14 | 0.5 | | 07:45 | 0.4 | | 08:49 | 0.5 |
| | 18:20 | 0.7 | | 13:19 | 1.4 | | 13:16 | 1.4 | | 14:29 | 1.5 | | 14:01 | 1.6 | | 15:02 | 1.5 |
| | | | 19:33 | 0.5 | | 19:28 | 0.6 | | 20:42 | 0.5 | | 20:14 | 0.4 | | 21:09 | 0.5 | |
| 08 TER | 00:24 | 1.2 | 24 QUI ● | 01:40 | 1.4 | 08 SEX | 01:32 | 1.3 | 24 DOM | 02:44 | 1.4 | 08 SEG | 02:21 | 1.5 | 24 QUA | 03:16 | 1.4 |
| | 06:34 | 0.6 | | 07:47 | 0.5 | | 07:34 | 0.5 | | 08:48 | 0.5 | | 08:21 | 0.4 | | 09:17 | 0.5 |
| | 12:54 | 1.3 | | 14:05 | 1.5 | | 13:53 | 1.4 | | 15:04 | 1.5 | | 14:38 | 1.6 | | 15:31 | 1.5 |
| | 19:03 | 0.6 | ● | 20:21 | 0.5 | | 20:05 | 0.5 | | 21:15 | 0.5 | | 20:50 | 0.4 | | 21:36 | 0.5 |
| 09 QUA | 01:07 | 1.2 | 25 SEX | 02:25 | 1.4 | 09 SÁB ○ | 02:09 | 1.4 | 25 SEG | 03:17 | 1.4 | 09 TER | 02:58 | 1.5 | 25 QUI | 03:45 | 1.4 |
| | 07:13 | 0.6 | | 08:30 | 0.4 | | 08:10 | 0.5 | | 09:20 | 0.5 | | 08:59 | 0.4 | | 09:46 | 0.6 |
| | 13:33 | 1.3 | | 14:49 | 1.5 | | 14:29 | 1.5 | | 15:36 | 1.5 | | 15:16 | 1.6 | | 16:01 | 1.4 |
| | 19:43 | 0.6 | | 21:04 | 0.5 | | 20:41 | 0.5 | | 21:46 | 0.5 | | 21:28 | 0.4 | | 22:05 | 0.6 |
| 10 QUI ○ | 01:48 | 1.3 | 26 SÁB | 03:07 | 1.4 | 10 DOM | 02:46 | 1.4 | 26 TER | 03:49 | 1.4 | 10 QUA | 03:37 | 1.5 | 26 SEX | 04:16 | 1.4 |
| | 07:51 | 0.5 | | 09:11 | 0.4 | | 08:46 | 0.4 | | 09:51 | 0.5 | | 09:38 | 0.4 | | 10:16 | 0.6 |
| | 14:11 | 1.4 | | 15:30 | 1.5 | | 15:05 | 1.5 | | 16:08 | 1.5 | | 15:56 | 1.6 | | 16:32 | 1.3 |
| | 20:22 | 0.6 | | 21:44 | 0.5 | | 21:17 | 0.4 | | 22:16 | 0.5 | | 22:08 | 0.4 | | 22:35 | 0.7 |
| 11 SEX | 02:27 | 1.3 | 27 DOM | 03:46 | 1.4 | 11 SEG | 03:24 | 1.4 | 27 QUA | 04:21 | 1.4 | 11 QUI | 04:18 | 1.5 | 27 SÁB | 04:50 | 1.3 |
| | 08:28 | 0.5 | | 09:49 | 0.5 | | 09:23 | 0.4 | | 10:22 | 0.6 | | 10:20 | 0.5 | | 10:49 | 0.7 |
| | 14:49 | 1.4 | | 16:09 | 1.5 | | 15:42 | 1.5 | | 16:40 | 1.4 | | 16:38 | 1.5 | | 17:07 | 1.3 |
| | 21:01 | 0.5 | | 22:23 | 0.5 | | 21:55 | 0.4 | | 22:47 | 0.6 | | 22:51 | 0.5 | | 23:10 | 0.7 |
| 12 SÁB | 03:06 | 1.3 | 28 SEG | 04:24 | 1.3 | 12 TER | 04:02 | 1.4 | 28 QUI | 04:54 | 1.3 | 12 SEX | 05:04 | 1.4 | 28 DOM | 05:30 | 1.2 |
| | 09:06 | 0.5 | | 10:27 | 0.5 | | 10:02 | 0.4 | | 10:54 | 0.6 | | 11:08 | 0.5 | | 11:32 | 0.8 |
| | 15:27 | 1.4 | | 16:47 | 1.4 | | 16:22 | 1.5 | | 17:13 | 1.3 | | 17:26 | 1.4 | | 17:52 | 1.2 |
| | 21:39 | 0.5 | | 23:00 | 0.5 | | 22:35 | 0.5 | | 23:20 | 0.6 | | 23:40 | 0.6 | | 23:56 | 0.8 |
| 13 DOM | 03:45 | 1.3 | 29 TER | 05:02 | 1.3 | 13 QUA | 04:43 | 1.4 | 29 SEX | 05:29 | 1.2 | 13 SÁB | 05:57 | 1.3 | 29 SEG) | 06:29 | 1.2 |
| | 09:44 | 0.5 | | 11:04 | 0.6 | | 10:43 | 0.5 | | 11:28 | 0.7 | | 12:05 | 0.6 | | 12:41 | 0.9 |
| | 16:06 | 1.4 | | 17:25 | 1.4 | | 17:03 | 1.5 | | 17:50 | 1.2 | | 18:24 | 1.3 | | 19:03 | 1.1 |
| | 22:19 | 0.5 | | 23:38 | 0.6 | | 23:18 | 0.5 | | 23:57 | 0.7 | | | | | | |
| 14 SEG | 04:25 | 1.3 | 30 QUA | 05:40 | 1.3 | 14 QUI | 05:28 | 1.4 | 30 SÁB | 06:11 | 1.2 | 14 DOM (| 00:41 | 0.7 | 30 TER | 01:15 | 0.8 |
| | 10:24 | 0.5 | | 11:42 | 0.6 | | 11:29 | 0.5 | | 12:11 | 0.8 | | 07:06 | 1.3 | | 08:04 | 1.1 |
| | 16:47 | 1.4 | | 18:04 | 1.3 | | 17:50 | 1.4 | | 18:36 | 1.2 | | 13:25 | 0.7 | | 14:47 | 0.9 |
| | 23:02 | 0.5 | | | | | | | | | | | 19:42 | 1.2 | | 20:53 | 1.1 |
| 15 TER | 05:09 | 1.3 | 31 QUI | 00:17 | 0.6 | 15 SEX | 00:07 | 0.6 | 31 DOM) | 00:47 | 0.8 | 15 SEG | 02:08 | 0.7 | 15 TER | 03:49 | 0.7 |
| | 11:07 | 0.5 | | 06:22 | 1.2 | | 06:19 | 1.3 | | 07:11 | 1.1 | | 08:39 | 1.2 | | 10:14 | 1.3 |
| | 17:31 | 1.4 | | 12:24 | 0.7 | | 12:23 | 0.6 | | 13:21 | 0.8 | | 15:11 | 0.8 | | 16:44 | 0.7 |
| | 23:48 | 0.5 | | 18:47 | 1.2 | | 18:45 | 1.3 | | 19:47 | 1.1 | | 21:24 | 1.2 | | | |
| 16 QUA | 05:56 | 1.3 | | | | 16 SÁB (| 01:06 | 0.6 | 16 TER | 03:49 | 0.7 | | | | | | |
| | 11:55 | 0.5 | | | | | 07:23 | 1.2 | | | 10:14 | 1.3 | | | | | |
| | 18:19 | 1.4 | | | | | 13:32 | 0.7 | | | 16:44 | 0.7 | | | | | |
| | | | | | | 19:54 | 1.3 | | 22:54 | 1.2 | | | | | | | |

Porto de Lajes das Flores (Ilha das Flores)

Latitude 39° 22.71' N Longitude 31° 10.12' W

Horas do Fuso: 0 (TU)

Ano: 2025

| OUTUBRO | | | | | NOVEMBRO | | | | | DEZEMBRO | | | | | | | |
|-----------|-------|--------|-----------|--------|----------|-----------|-------|--------|-----------|----------|------|-----------|-------|--------|-----------|-------|-----|
| | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | Hora | Altura | | | |
| 01 | 03:09 | 0.8 | 17 | 05:38 | 0.7 | 01 | 04:33 | 0.7 | 17 | 00:21 | 1.3 | 01 | 04:42 | 0.6 | 17 | 00:30 | 1.3 |
| | 09:46 | 1.2 | | 11:51 | 1.4 | | 10:51 | 1.4 | | 06:24 | 0.7 | | 10:58 | 1.4 | | 06:35 | 0.7 |
| | 16:22 | 0.8 | SEX | 18:12 | 0.6 | SÁB | 17:15 | 0.6 | SEG | 12:30 | 1.4 | SEG | 17:22 | 0.6 | QUA | 12:38 | 1.3 |
| | 22:22 | 1.1 | | | | | 23:23 | 1.3 | | 18:44 | 0.6 | | 23:36 | 1.4 | | 18:49 | 0.6 |
| 02 | 04:28 | 0.8 | 18 | 00:16 | 1.3 | 02 | 05:21 | 0.6 | 18 | 00:53 | 1.4 | 02 | 05:35 | 0.6 | 18 | 01:06 | 1.3 |
| | 10:50 | 1.3 | | 06:19 | 0.6 | | 11:36 | 1.5 | | 06:56 | 0.6 | | 11:50 | 1.5 | | 07:12 | 0.7 |
| | 17:15 | 0.7 | SÁB | 12:29 | 1.5 | DOM | 17:56 | 0.5 | TER | 13:02 | 1.4 | TER | 18:10 | 0.5 | QUI | 13:15 | 1.3 |
| | 23:17 | 1.2 | | 18:46 | 0.6 | | | | | 19:13 | 0.6 | | | | | 19:23 | 0.6 |
| 03 | 05:18 | 0.7 | 19 | 00:50 | 1.4 | 03 | 00:06 | 1.4 | 19 | 01:25 | 1.4 | 03 | 00:25 | 1.5 | 19 | 01:41 | 1.4 |
| | 11:36 | 1.4 | | 06:53 | 0.6 | | 06:05 | 0.5 | | 07:27 | 0.6 | | 06:26 | 0.5 | | 07:48 | 0.7 |
| | 17:55 | 0.6 | DOM | 13:02 | 1.5 | SEG | 12:19 | 1.5 | QUA | 13:34 | 1.4 | QUA | 12:40 | 1.5 | SEX | 13:52 | 1.3 |
| | | | | 19:15 | 0.5 | | 18:37 | 0.5 | | 19:42 | 0.6 | | 18:56 | 0.4 | | 19:57 | 0.6 |
| 04 | 00:00 | 1.3 | 20 | 01:20 | 1.4 | 04 | 00:48 | 1.5 | 20 | 01:56 | 1.4 | 04 | 01:12 | 1.5 | 20 | 02:16 | 1.4 |
| | 05:59 | 0.6 | | 07:23 | 0.6 | | 06:48 | 0.5 | | 07:59 | 0.6 | | 07:16 | 0.5 | | 08:24 | 0.6 |
| | 12:15 | 1.5 | SEG | 13:32 | 1.5 | TER | 13:02 | 1.6 | QUI | 14:06 | 1.4 | QUI | 13:29 | 1.6 | SÁB | 14:28 | 1.4 |
| | 18:31 | 0.5 | | 19:42 | 0.5 | | 19:18 | 0.4 | ● | 20:12 | 0.6 | ○ | 19:42 | 0.4 | ● | 20:31 | 0.6 |
| 05 | 00:38 | 1.4 | 21 | 01:49 | 1.4 | 05 | 01:30 | 1.6 | 21 | 02:28 | 1.4 | 05 | 02:00 | 1.6 | 21 | 02:52 | 1.4 |
| | 06:38 | 0.5 | | 07:52 | 0.6 | | 07:32 | 0.4 | | 08:31 | 0.6 | | 08:06 | 0.5 | | 09:00 | 0.6 |
| | 12:53 | 1.5 | TER | 14:01 | 1.5 | QUA | 13:46 | 1.6 | SEX | 14:39 | 1.4 | SEX | 14:18 | 1.5 | DOM | 15:05 | 1.3 |
| | 19:08 | 0.5 | ● | 20:09 | 0.5 | ○ | 19:59 | 0.4 | | 20:43 | 0.6 | | 20:29 | 0.4 | | 21:05 | 0.6 |
| 06 | 01:16 | 1.5 | 22 | 02:18 | 1.4 | 06 | 02:13 | 1.6 | 22 | 03:02 | 1.4 | 06 | 02:47 | 1.6 | 22 | 03:28 | 1.4 |
| | 07:16 | 0.4 | | 08:20 | 0.6 | | 08:17 | 0.4 | | 09:05 | 0.7 | | 08:58 | 0.5 | | 09:38 | 0.6 |
| | 13:31 | 1.6 | QUA | 14:30 | 1.5 | QUI | 14:30 | 1.6 | SÁB | 15:14 | 1.4 | SÁB | 15:07 | 1.5 | SEG | 15:42 | 1.3 |
| | 19:45 | 0.4 | | 20:36 | 0.5 | | 20:42 | 0.4 | | 21:16 | 0.6 | | 21:15 | 0.4 | | 21:41 | 0.6 |
| 07 | 01:54 | 1.6 | 23 | 02:48 | 1.4 | 07 | 02:58 | 1.6 | 23 | 03:37 | 1.4 | 07 | 03:36 | 1.6 | 23 | 04:06 | 1.4 |
| | 07:55 | 0.4 | | 08:49 | 0.6 | | 09:04 | 0.4 | | 09:42 | 0.7 | | 09:50 | 0.5 | | 10:17 | 0.6 |
| | 14:10 | 1.6 | QUI | 15:00 | 1.4 | SEX | 15:17 | 1.6 | DOM | 15:50 | 1.3 | DOM | 15:57 | 1.5 | TER | 16:21 | 1.3 |
| | 20:23 | 0.4 | | 21:04 | 0.6 | | 21:27 | 0.4 | | 21:51 | 0.6 | | 22:03 | 0.5 | | 22:19 | 0.6 |
| 08 | 02:34 | 1.6 | 24 | 03:18 | 1.4 | 08 | 03:45 | 1.6 | 24 | 04:16 | 1.4 | 08 | 04:27 | 1.5 | 24 | 04:45 | 1.4 |
| | 08:35 | 0.4 | | 09:19 | 0.6 | | 09:54 | 0.5 | | 10:23 | 0.7 | | 10:45 | 0.5 | | 10:58 | 0.7 |
| | 14:50 | 1.6 | SEX | 15:31 | 1.4 | SÁB | 16:06 | 1.5 | SEG | 16:31 | 1.3 | SEG | 16:49 | 1.4 | QUA | 17:03 | 1.3 |
| | 21:03 | 0.4 | | 21:34 | 0.6 | | 22:14 | 0.5 | | 22:30 | 0.7 | | 22:54 | 0.6 | | 23:00 | 0.6 |
| 09 | 03:15 | 1.6 | 25 | 03:51 | 1.4 | 09 | 04:36 | 1.5 | 25 | 05:00 | 1.3 | 09 | 05:21 | 1.5 | 25 | 05:28 | 1.4 |
| | 09:17 | 0.4 | | 09:52 | 0.7 | | 10:51 | 0.6 | | 11:11 | 0.8 | | 11:44 | 0.6 | | 11:45 | 0.7 |
| | 15:33 | 1.6 | SÁB | 16:04 | 1.3 | DOM | 17:00 | 1.4 | TER | 17:18 | 1.2 | TER | 17:44 | 1.3 | QUI | 17:50 | 1.3 |
| | 21:44 | 0.4 | | 22:06 | 0.7 | | 23:07 | 0.6 | | 23:16 | 0.7 | | 23:50 | 0.6 | | 23:47 | 0.7 |
| 10 | 03:58 | 1.5 | 26 | 04:27 | 1.3 | 10 | 05:35 | 1.4 | 26 | 05:51 | 1.3 | 10 | 06:19 | 1.4 | 26 | 06:16 | 1.4 |
| | 10:03 | 0.5 | | 10:29 | 0.7 | | 11:57 | 0.7 | | 12:10 | 0.8 | | 12:47 | 0.7 | | 12:37 | 0.7 |
| | 16:19 | 1.5 | DOM | 16:42 | 1.3 | SEG | 18:03 | 1.3 | QUA | 18:15 | 1.2 | QUA | 18:45 | 1.2 | SEX | 18:44 | 1.2 |
| | 22:29 | 0.5 | | 22:43 | 0.7 | | | | | | | | | | | | |
| 11 | 04:47 | 1.5 | 27 | 05:10 | 1.3 | 11 | 00:12 | 0.7 | 27 | 00:14 | 0.7 | 11 | 00:53 | 0.7 | 27 | 00:42 | 0.7 |
| | 10:55 | 0.6 | | 11:16 | 0.8 | | 06:44 | 1.4 | | 06:51 | 1.3 | | 07:22 | 1.4 | | 07:10 | 1.3 |
| | 17:10 | 1.4 | SEG | 17:29 | 1.2 | TER | 13:18 | 0.7 | QUI | 13:19 | 0.8 | QUI | 13:55 | 0.7 | SÁB | 13:37 | 0.7 |
| | 23:20 | 0.6 | | 23:30 | 0.8 | | 19:19 | 1.2 | | 19:24 | 1.2 | ((| 19:54 | 1.2 |)) | 19:47 | 1.2 |
| 12 | 05:44 | 1.4 | 28 | 06:08 | 1.2 | 12 | 01:32 | 0.7 | 28 | 01:24 | 0.8 | 12 | 02:03 | 0.7 | 28 | 01:47 | 0.7 |
| | 12:00 | 0.7 | | 12:26 | 0.8 | | 08:04 | 1.3 | | 07:58 | 1.3 | | 08:27 | 1.3 | | 08:12 | 1.3 |
| | 18:12 | 1.3 | TER | 18:37 | 1.1 | QUA | 14:45 | 0.7 | SEX | 14:32 | 0.8 | SEX | 15:02 | 0.7 | DOM | 14:44 | 0.7 |
| | | | | | | ((| 20:46 | 1.2 |)) | 20:38 | 1.2 | | 21:05 | 1.2 | | 20:58 | 1.2 |
| 13 | 00:25 | 0.7 | 29 | 00:40 | 0.8 | 13 | 02:58 | 0.8 | 29 | 02:38 | 0.7 | 13 | 03:14 | 0.8 | 29 | 02:58 | 0.7 |
| | 06:57 | 1.3 | | 07:27 | 1.2 | | 09:22 | 1.3 | | 09:04 | 1.3 | | 09:31 | 1.3 | | 09:19 | 1.3 |
| | 13:27 | 0.7 | QUA | 14:05 | 0.8 | QUI | 15:59 | 0.7 | SÁB | 15:36 | 0.7 | SÁB | 16:03 | 0.7 | SEG | 15:51 | 0.6 |
| | ((| 19:36 |)) | 20:09 | 1.1 | | 22:04 | 1.2 | | 21:46 | 1.2 | | 22:11 | 1.2 | | 22:08 | 1.3 |
| 14 | 01:57 | 0.8 | 30 | 02:15 | 0.8 | 14 | 04:09 | 0.7 | 30 | 03:44 | 0.7 | 14 | 04:18 | 0.8 | 30 | 04:09 | 0.7 |
| | 08:30 | 1.3 | | 08:53 | 1.2 | | 10:25 | 1.4 | | 10:04 | 1.4 | | 10:28 | 1.3 | | 10:26 | 1.4 |
| | 15:11 | 0.7 | QUI | 15:31 | 0.8 | SEX | 16:55 | 0.7 | DOM | 16:32 | 0.6 | DOM | 16:54 | 0.7 | TER | 16:54 | 0.6 |
| | 21:18 | 1.2 | | 21:34 | 1.2 | | 23:01 | 1.3 | | 22:44 | 1.3 | | 23:06 | 1.2 | | 23:12 | 1.3 |
| 15 | 03:35 | 0.8 | 31 | 03:35 | 0.8 | 15 | 05:04 | 0.7 | 15 | 05:11 | 0.7 | 15 | 05:11 | 0.7 | 31 | 05:15 | 0.6 |
| | 09:58 | 1.3 | | 09:59 | 1.3 | | 11:15 | 1.4 | | 11:17 | 1.3 | | 11:17 | 1.3 | | 11:30 | 1.4 |
| | 16:34 | 0.7 | SEX | 16:29 | 0.7 | SÁB | 17:38 | 0.6 | SEG | 17:37 | 0.7 | SEG | 17:37 | 0.7 | QUA | 17:51 | 0.5 |
| | 22:41 | 1.2 | | 22:34 | 1.2 | | 23:45 | 1.3 | | 23:51 | 1.3 | | | | | | |
| 16 | 04:47 | 0.7 | | | | 16 | 05:47 | 0.7 | 16 | 05:55 | 0.7 | 16 | 05:55 | 0.7 | | | |
| | 11:03 | 1.4 | | | | | 11:56 | 1.4 | | 11:59 | 1.3 | | 11:59 | 1.3 | | | |
| | 17:30 | 0.7 | | | | DOM | 18:13 | 0.6 | | 18:15 | 0.7 | | 18:15 | 0.7 | | | |
| | 23:36 | 1.3 | | | | | | | | | | | | | | | |

CAPÍTULO 3

**INFORMAÇÃO SUPLEMENTAR
SOBRE MARÉS**

CONCORDÂNCIAS DE MARÉS PARA LOCAIS PRÓXIMOS DOS PORTOS PRINCIPAIS

| NOME DO PORTO | COORDENADAS GEOGRÁFICAS (WGS84) | | NÍVEL MÉDIO m | CORREÇÕES EM TEMPO | | | | CORREÇÕES EM ALTURA | | | | RELAÇÃO DE AMPLITUDE | |
|--|---------------------------------|-------------------|------------------|--------------------|-------------|-------------|-------------|---------------------|-------------|-------------|-------------|----------------------|------|
| | Lat (N) ° ' " | Long (W) ° ' " | | PM | | BM | | PM | | BM | | AM | AV |
| | | | | AM h min | AV h min | AM h min | AV h min | AM m | AV m | AM m | AV m | | |
| VIANA DO CASTELO <i>(Págs. 2-5 a 2-10)</i> | 41 41.10 | 8 50.38 | 2.00 | | | | | 2.68 | 3.41 | 1.32 | 0.59 | | |
| Caminha..... | 41 52.0 | 8 52.1 | 2.00 | 0 09 | 0 22 | 0 38 | 1 23 | -0.02 | 0 | 0.20 | 0.71 | | |
| Âncora..... | 41 48.8 | 8 52.2 | 2.00 | - 0 06 | | | | | | | | 0.94 | |
| Esposende..... | 41 32.5 | 8 47.5 | 2.00 | 0 06 | 0 05 | 0 22 | 0 48 | 0.03 | -0.04 | 0.23 | 0.50 | | |
| Póvoa do Varzim..... | 41 22.5 | 8 46.0 | 2.00 | + 0 01 | 0 02 | 0 02 | - 0 01 | | | | | 1.01 | 1.00 |
| Vila do Conde..... | 41 20.4 | 8 44.9 | 2.00 | 0 | - 0 01 | 0 03 | 0 03 | | | | | 0.95 | |
| LEIXÕES <i>(Págs. 2-11 a 2-28)</i> | 41 11.20 | 8 42.27 | 2.00 | | | | | 2.68 | 3.41 | 1.32 | 0.59 | | |
| Barra do Douro..... | 41 08.8 | 8 40.0 | 2.00 | - 0 05 | 0 | - 0 08 | 0 25 | - 0.06 | - 0.10 | 0 | 0.15 | | |
| Capitania do Douro..... | 41 08.5 | 8 37.1 | 2.00 | 0 16 | 0 16 | 0 30 | 0 44 | 0.13 | 0.16 | 0.16 | 0.33 | | |
| Crestuma..... | 41 04.2 | 8 30.2 | 2.00 | 0 58 | 1 02 | 1 31 | 2 14 | 0.19 | 0.13 | 0.20 | 0.56 | | |
| AVEIRO <i>(Págs. 2-25 a 2-34)</i> | 40 38.6 | 8 44.97 | 2.00 | | | | | 2.63 | 3.30 | 1.37 | 0.70 | | |
| Canais de S. Jacinto e Ovar | | | | | | | | | | | | | |
| S. Jacinto..... | 40 39.8 | 8 43.7 | 2.00 | 0 20 | 0 18 | 0 22 | 0 32 | 0.05 | - 0.05 | 0.08 | + 0.23 | 0.98 | 0.89 |
| Cais Comercial..... | 40 39.0 | 8 44.0 | 2.00 | 0 14 | 0 20 | 0 24 | 0 28 | - 0.02 | - 0.13 | 0.08 | + 0.18 | 0.92 | 0.88 |
| Miradouro..... | 40 41.4 | 8 43.3 | 2.00 | 0 53 | 0 49 | 0 47 | 1 07 | 0.08 | - 0.09 | 0.14 | + 0.44 | 0.95 | 0.79 |
| Moranzel..... | 40 43.1 | 8 41.9 | 2.00 | 1 00 | 1 07 | 1 12 | 1 38 | 0.04 | - 0.16 | 0.17 | + 0.72 | 0.89 | 0.66 |
| Torreira..... | 40 45.7 | 8 42.0 | 2.00 | 1 30 | 1 34 | 2 34 | 3 03 | 0.02 | - 0.18 | 0.42 | + 1.16 | 0.68 | 0.48 |
| Varela..... | 40 47.4 | 8 40.5 | 2.00 | 2 16 | 2 25 | 3 10 | 3 41 | - 0.06 | - 0.34 | 0.57 | + 1.29 | 0.49 | 0.36 |
| Puxadouro..... | 40 50.1 | 8 37.4 | 2.00 | 2 56 | 3 22 | 4 35 | 5 02 | - 0.12 | - 0.45 | 0.63 | + 1.35 | 0.40 | 0.30 |
| Pardilhó..... | 40 48.1 | 8 38.3 | 2.00 | 2 56 | 3 31 | 4 03 | 4 32 | - 0.11 | - 0.42 | 0.65 | + 1.38 | 0.39 | 0.30 |
| Ovar..... | 40 50.6 | 8 38.6 | 2.00 | 3 02 | 3 28 | 4 27 | 4 53 | - 0.13 | - 0.44 | 0.57 | + 1.29 | 0.43 | 0.32 |
| Carregal..... | 40 51.7 | 8 39.4 | 2.00 | 3 12 | 3 06 | 4 35 | 5 05 | - 0.08 | - 0.36 | 0.63 | 1.36 | 0.43 | 0.33 |
| Manchão..... | 40 45.7 | 8 39.6 | 2.00 | 3 34 | 4 42 | 5 01 | 5 36 | - 0.15 | - 0.56 | 0.74 | 1.48 | 0.28 | 0.20 |
| Rio Vouga | | | | | | | | | | | | | |
| Parrachil..... | 40 40.7 | 8 40.6 | 2.00 | 0 40 | 0 52 | 0 46 | 1 09 | 0.09 | - 0.06 | 0.20 | + 0.48 | 0.90 | 0.79 |
| Rio Novo..... | 40 41.7 | 8 38.3 | 2.00 | 0 58 | 1 16 | 1 05 | 1 37 | 0.10 | - 0.08 | 0.21 | 0.60 | 0.90 | 0.73 |
| Cacia..... | 40 41.7 | 8 36.1 | 2.00 | 1 16 | 1 40 | 1 34 | 2 03 | 0.05 | - 0.12 | 0.48 | + 0.81 | 0.64 | 0.64 |
| Canal da Vila | | | | | | | | | | | | | |
| Terminal de Líquidos..... | 40 39.6 | 8 42.7 | 2.00 | 0 16 | 0 24 | 0 29 | 0 38 | 0.02 | - 0.09 | 0.08 | + 0.19 | 0.95 | 0.89 |
| Ponte Cais n.º 2..... | 40 38.4 | 8 41.6 | 2.00 | 0 29 | 0 31 | 0 33 | 0 52 | 0.06 | - 0.05 | 0.09 | + 0.23 | 0.98 | 0.89 |
| Lota..... | 40 38.7 | 8 39.8 | 2.00 | 0 44 | 0 50 | 0 36 | 0 58 | 0 | - 0.12 | 0.07 | 0.21 | 0.94 | 0.87 |
| Esgueira..... | 40 39.2 | 8 37.9 | 2.00 | 1 17 | 2 02 | — | — | 0.05 | - 0.19 | — | — | — | — |
| Canal de Ílhavo | | | | | | | | | | | | | |
| Vista Alegre..... | 40 35.3 | 8 41.1 | 2.00 | 1 28 | 1 55 | 2 12 | 3 01 | 0.01 | - 0.29 | 0.32 | + 0.94 | 0.75 | 0.52 |
| Cais da Pedra..... | 40 32.4 | 8 40.5 | 2.00 | 1 51 | 2 38 | 2 40 | 3 30 | 0.03 | - 0.28 | 0.37 | + 1.02 | 0.73 | 0.49 |
| Boco..... | 40 32.0 | 8 40.0 | 2.00 | 1 56 | 2 49 | 2 49 | 3 38 | 0.03 | - 0.27 | 0.37 | + 1.01 | 0.73 | 0.50 |
| Bacia do Laranjo | | | | | | | | | | | | | |
| Cais do Bico..... | 40 43.7 | 8 38.9 | 2.00 | 1 19 | 1 37 | 1 56 | 2 41 | - 0.01 | - 0.23 | 0.10 | + 0.74 | 0.91 | 0.63 |
| Vala Rainha..... | 40 42.6 | 8 36.3 | 2.00 | 1 26 | 2 05 | 2 34 | 3 21 | - 0.01 | - 0.23 | 0.18 | + 0.84 | 0.85 | 0.59 |
| Estarreja..... | 40 44.8 | 8 35.4 | 2.00 | 1 32 | 2 05 | — | — | 0.01 | - 0.23 | — | — | — | — |
| Salreu..... | 40 43.9 | 8 34.4 | 2.00 | 1 34 | 1 59 | 3 03 | 3 52 | 0.03 | - 0.17 | 0.32 | + 0.98 | 0.77 | 0.56 |
| Canelas..... | 40 42.7 | 8 33.8 | 2.00 | 2 00 | 2 16 | 3 36 | 4 25 | - 0.03 | - 0.21 | 0.66 | + 1.34 | 0.45 | 0.40 |
| Canal de Mira | | | | | | | | | | | | | |
| Costa Nova..... | 40 37.2 | 8 44.9 | 2.00 | 0 24 | 0 27 | 0 42 | 0 28 | 0.02 | 0.04 | 0 | + 0.14 | 1.01 | 0.96 |
| Vagueira..... | 40 33.7 | 8 45.5 | 2.00 | 0 47 | 0 46 | 3 32 | 2 28 | 0.01 | 0 | 0.38 | 1.20 | 0.71 | 0.53 |
| Areão..... | 40 30.6 | 8 46.6 | 2.00 | — | — | — | — | — | — | — | — | 0.04 | 0.06 |
| FIGUEIRA DA FOZ <i>(Págs. 2-35 a 2-40)</i> | 40 08.90 | 8 51.37 | 2.00 | | | | | 2.67 | 3.39 | 1.33 | 0.61 | | |
| S. Martinho do Porto..... | 39 30.7 | 9 08.4 | 2.00 | + 0 08 | | | | | | | | 1.03 | |
| PENICHE <i>(Págs. 2-41 a 2-46)</i> | 39 20.99 | 9 22.48 | 2.00 | | | | | 2.67 | 3.39 | 1.33 | 0.61 | | |
| Nazaré..... | 39 35.1 | 9 04.5 | 2.00 | - 0 04 | - 0 06 | - 0 03 | - 0 03 | 0.07 | 0.07 | 0.09 | 0.09 | | |
| CASCAIS <i>(Págs. 2-47 a 2-52)</i> | 38 41.59 | 9 24.92 | 2.08 | | | | | 2.74 | 3.46 | 1.42 | 0.70 | | |
| Ericeira..... | 38 57.9 | 9 25.3 | 2.00 | 0 01 | 0 01 | 0 03 | - 0 02 | | | | | 1.05 | |

| NOME DO PORTO | COORDENADAS GEOGRÁFICAS (WGS84) | | NÍVEL MÉDIO m | CORREÇÕES EM TEMPO | | | | CORREÇÕES EM ALTURA | | | | RELAÇÃO DE AMPLITUDE | |
|---|---------------------------------|-----------------|------------------|--------------------|--------------|--------------|--------------|---------------------|-------------|-------------|-------------|----------------------|------|
| | Lat (N) | Long (W) | | PM. | | BM. | | PM. | | BM. | | AM. | AV. |
| | | | | AM. h min | AV. h min | AM. h min | AV. h min | AM. m | AV. m | AM. m | AV. m | | |
| LISBOA (Págs. 2-53 a 2-70) | 38 42.62 | 9 07.53 | 2.20 | | | | | 2.96 | 3.75 | 1.44 | 0.65 | | |
| Paço de Arcos | 38 41.5 | 9 17.6 | 2.08 | -0 23 | -0 31 | -0 13 | -0 20 | -0.24 | -0.33 | 0 | + 0.05 | 0.85 | 0.88 |
| Pedrouços | 38 41.6 | 9 13.5 | 2.10 | -0 18 | -0 21 | -0 16 | -0 21 | -0.17 | -0.22 | 0 | 0 | 0.91 | 0.93 |
| Trafaria | 38 40.5 | 9 13.9 | 2.10 | -0 12 | -0 18 | -0 09 | -0 13 | -0.19 | -0.26 | 0 | 0 | 0.88 | 0.92 |
| Cacilhas | 38 41.3 | 9 08.9 | 2.20 | -0 11 | -0 11 | -0 14 | -0 17 | 0 | 0 | 0 | 0 | 0.97 | 1.00 |
| Arsenal do Alfeite | 38 40.3 | 9 08.9 | 2.20 | -0 06 | -0 06 | -0 05 | -0 05 | + 0.02 | + 0.02 | + 0.02 | + 0.02 | 1.01 | 0.99 |
| Montijo | 38 41.4 | 9 02.9 | 2.25 | -0 03 | -0 06 | -0 13 | -0 17 | + 0.06 | + 0.11 | 0 | - 0.07 | 1.02 | 1.06 |
| Seixal | 38 39.0 | 9 04.6 | 2.25 | 0 | -0 05 | -0 11 | -0 15 | 0 | + 0.07 | + 0.06 | 0 | 0.98 | 1.02 |
| Cais da Matinha | 38 45.0 | 9 05.6 | 2.25 | + 0 05 | + 0 05 | -0 02 | + 0 01 | + 0.20 | + 0.20 | + 0.05 | 0 | - | - |
| Cabo Ruivo | 38 45.4 | 9 05.5 | 2.25 | 0 | 0 | -0 11 | -0 14 | + 0.08 | + 0.15 | 0 | - 0.11 | 1.05 | 1.08 |
| Alcochete | 38 45.4 | 8 57.9 | 2.30 | + 0 10 | + 0 10 | 0 | 0 | + 0.20 | + 0.30 | - 0.10 | - 0.20 | 1.10 | 1.13 |
| Ponta da Erva | 38 50.0 | 8 58.0 | 2.35 | + 0 09 | + 0 11 | + 0 02 | + 0 11 | + 0.25 | + 0.34 | 0 | - 0.13 | 1.14 | 1.15 |
| VALORSUL | 38 49.7 | 9 04.9 | 2.30 | + 0 14 | + 0 17 | + 0 05 | + 0 15 | 0 | + 0.10 | - 0.25 | - 0.30 | - | - |
| Póvoa de Santa Iria | 38 51.4 | 9 03.7 | 2.30 | + 0 10 | + 0 17 | + 0 02 | + 0 13 | + 0.20 | + 0.18 | 0 | 0 | 1.15 | 1.07 |
| CIMPOR | 38 55.3 | 9 00.5 | 2.35 | + 0 25 | + 0 35 | + 0 40 | + 1 20 | + 0.30 | + 0.30 | 0 | + 0.30 | - | - |
| Vila Franca de Xira | 38 56.6 | 8 59.6 | 2.40 | + 0 35 | + 0 40 | + 0 50 | + 1 30 | + 0.25 | + 0.30 | 0 | + 0.40 | 1.14 | 1.02 |
| Carregado – terra | 39 00.5 | 8 56.5 | 2.40 | + 1 07 | + 1 18 | + 1 30 | + 2 05 | + 0.28 | 0 | + 0.15 | + 0.48 | 1.08 | 0.84 |
| SETÚBAL (Troia) (Págs. 2-77 a 2-94) | 38 29.69 | 8 54.17 | 2.00 | | | | | 2.67 | 3.38 | 1.33 | 0.62 | | |
| Baliza 4 | 38 27.9 | 8 57.7 | 2.00 | -0 13 | -0 18 | -0 04 | -0 11 | -0.05 | -0.08 | + 0.05 | + 0.10 | | |
| Outão | 38 29.6 | 8 56.0 | 2.00 | -0 03 | -0 03 | 0 | 0 | -0.04 | -0.07 | + 0.02 | + 0.04 | | |
| Cais Comercial | 38 31.2 | 8 53.4 | 2.00 | + 0 09 | + 0 06 | + 0 04 | + 0 05 | -0.06 | -0.07 | -0.04 | -0.06 | | |
| Desmagnetização | 38 27.5 | 8 51.1 | 2.00 | + 0 10 | + 0 13 | + 0 05 | + 0 07 | + 0.02 | + 0.03 | -0.05 | -0.10 | | |
| Lisnave (Setenave) | 38 28.2 | 8 47.5 | 2.00 | + 0 14 | + 0 19 | + 0 06 | + 0 09 | + 0.06 | + 0.10 | -0.06 | -0.13 | 1.11 | |
| Pinheiro | 38 26.3 | 8 42.9 | 2.00 | + 0 35 | | | | | | | | | |
| LAGOS (Págs. 2-113 a 2-118) | 37 05.93 | 8 40.10 | 2.00 | | | | | 2.65 | 3.38 | 1.35 | 0.62 | | |
| Baleeira | 37 00.1 | 8 56.0 | 2.00 | 0 | 0 | -0 02 | + 0 02 | | | | | 1.03 | 1.02 |
| Portimão (interior) | 37 07.9 | 8 32.1 | 2.00 | + 0 23 | | | | | | | | 1.05 | |
| Portimão (exterior) | 37 07.6 | 8 31.7 | 2.00 | 0 | | | | | | | | 1.00 | |
| Albufeira | 37 05.1 | 8 15.2 | 2.00 | + 0 25 | | | | | | | | 1.07 | |
| FARO-OLHÃO (Págs. 2-119 a 2-124) | 36 58.69 | 7 51.97 | 2.00 | | | | | 2.64 | 3.33 | 1.36 | 0.67 | | |
| Barra do Ancão | 36 58.8 | 7 56.9 | 2.00 | + 0 03 | + 0 09 | -0 03 | + 0 13 | -0.04 | -0.07 | -0.04 | + 0.06 | | |
| Faro (Cais Comercial) | 37 00.2 | 7 55.3 | 2.00 | + 0 21 | + 0 24 | + 0 04 | + 0 06 | + 0.02 | + 0.02 | -0.05 | -0.05 | | |
| Olhão (Cais da Lota) | 37 01.4 | 7 50.3 | 2.00 | 0 | + 0 02 | + 0 05 | + 0 18 | -0.04 | -0.04 | -0.06 | -0.09 | | |
| Barra de Armona | 37 00.5 | 7 48.2 | 2.00 | -0 17 | -0 23 | -0 08 | -0 04 | -0.01 | -0.02 | + 0.02 | + 0.03 | | |
| Barra de Tavira | 37 06.9 | 7 37.1 | 2.00 | -0 09 | -0 11 | -0 04 | -0 12 | + 0.01 | -0.03 | 0 | + 0.05 | | |
| Barra de Cacula | 37 08.7 | 7 34.4 | 2.00 | -0 39 | -0 36 | + 0 27 | + 0 23 | + 0.02 | -0.03 | + 0.03 | + 0.21 | | |
| FUNCHAL (Págs. 2-133 a 2-138) | 32 38.64 | 16 54.78 | 1.40 | | | | | 1.85 | 2.37 | 0.95 | 0.43 | | |
| Porto Moniz | 32 51.9 | 17 19.9 | 1.40 | + 0 13 | | | | | | | | 1.09 | |
| Porto da Cruz | 32 46.4 | 16 49.5 | 1.40 | + 0 16 | | | | | | | | 1.11 | |
| Machico | 32 43.0 | 16 45.5 | 1.40 | 0 | | | | | | | | 0.98 | |
| Porto Santo | 33 03.3 | 16 18.6 | 1.40 | + 0 02 | + 0 06 | + 0 06 | + 0 10 | | | | | 1.06 | |
| Desertas | 32 30.6 | 16 30.6 | 1.40 | 0 | | | | | | | | - | |
| Selvagem Grande | 30 08.3 | 15 52.1 | 1.40 | + 0 01 | | | | | | | | 1.08 | |
| ANGRA DO HEROÍSMO (Págs. 2-153 a 2-158) | 38 38.99 | 27 13.34 | 1.00 | | | | | 1.28 | 1.61 | 0.72 | 0.39 | | |
| Praia da Vitória | 38 43.8 | 27 03.2 | 1.00 | + 0 11 | | | | | | | | 1.10 | |
| Santa Cruz (Graciosa) | 39 05.0 | 27 59.9 | 1.00 | + 0 11 | | | | | | | | 1.08 | |
| HORTA (Págs. 2-159 a 2-164) | 38 31.99 | 28 37.24 | 1.00 | | | | | 1.27 | 1.57 | 0.73 | 0.43 | | |
| Topo (S. Jorge) | 38 32.5 | 27 45.6 | 1.00 | + 0 05 | | | | | | | | 1.07 | |
| Norte Grande (S. Jorge) | 38 40.7 | 28 03.5 | 1.00 | + 0 25 | | | | | | | | 1.11 | |
| Veias (S. Jorge) | 38 40.7 | 28 12.3 | 1.00 | + 0 07 | | | | | | | | 1.08 | |
| Madalena do Pico (Pico) | 38 32.1 | 28 31.8 | 1.00 | -0 07 | + 0 04 | -0 02 | + 0 07 | | | | | 1.06 | 1.04 |
| Calheta (S. Jorge) | 38 36.0 | 28 00.7 | 1.00 | + 0 06 | | | | | | | | 1.07 | |
| S. António (Pico) | 38 32.2 | 28 20.2 | 1.00 | 0 | | | | | | | | 1.13 | |
| Lajes (Pico) | 38 23.9 | 28 15.4 | 1.00 | 0 | | | | | | | | 1.03 | |
| Porto do Cais (Pico) | 38 31.9 | 28 19.3 | 1.00 | + 0 28 | | | | | | | | 1.05 | |
| Castelo Branco (Faial) | 38 31.7 | 28 45.1 | 1.00 | -0 18 | | | | | | | | 0.95 | |
| Salão (Faial) | 38 37.7 | 28 39.7 | 1.00 | -0 06 | | | | | | | | 1.02 | |
| LAJES DAS FLORES (Págs. 2-165 a 2-170) | 39 22.71 | 31 10.12 | 1.00 | | | | | 1.24 | 1.50 | 0.76 | 0.50 | | |
| Santa Cruz das Flores | 39 27.28 | 31 07.45 | 1.00 | -0 04 | -0 06 | -0 03 | -0 03 | 0 | 0 | 0 | - 0.03 | 0.98 | |
| Corvo | 39 40.01 | 31 06.05 | 1.00 | -0 01 | -0 03 | 0 | 0 | | | | | 1.00 | |

CONSTANTES HARMÓNICAS FUNDAMENTAIS

| PORTO | M ₂ | | S ₂ | | K ₁ | | O ₁ | |
|---------------------------------------|----------------|------|----------------|-------|----------------|------|----------------|-------|
| | H. m | G° | H. m | G° | H. m | G° | H. m | G° |
| VIANA DO CASTELO | 1.044 | 75.9 | .364 | 104.1 | .071 | 61.3 | .062 | 319.0 |
| LEIXÕES | 1.047 | 76.1 | .367 | 104.7 | .069 | 59.9 | .065 | 318.1 |
| AVEIRO | .969 | 78.9 | .330 | 107.5 | .062 | 63.4 | .055 | 321.1 |
| FIGUEIRA DA FOZ | 1.033 | 75.4 | .361 | 104.1 | .066 | 63.0 | .061 | 319.4 |
| PENICHE | 1.030 | 69.8 | .360 | 97.2 | .075 | 55.6 | .062 | 315.6 |
| CASCAIS | .988 | 64.2 | .350 | 90.6 | .070 | 54.1 | .060 | 314.5 |
| LISBOA | 1.106 | 78.4 | .379 | 110.9 | .069 | 61.1 | .060 | 320.2 |
| SESIMBRA | .980 | 64.0 | .346 | 90.0 | .069 | 54.7 | .060 | 314.9 |
| SETÚBAL | 1.027 | 74.2 | .354 | 104.5 | .069 | 58.7 | .059 | 320.4 |
| SINES | .988 | 63.3 | .351 | 90.3 | .071 | 53.8 | .061 | 314.2 |
| LAGOS | 1.017 | 58.7 | .366 | 85.1 | .071 | 49.1 | .061 | 309.4 |
| FARO-OLHÃO | .982 | 66.0 | .345 | 94.8 | .065 | 56.9 | .059 | 318.5 |
| VILA REAL DE S. ^{TO} ANTÓNIO | .966 | 64.2 | .336 | 92.6 | .069 | 54.6 | .060 | 314.7 |
| FUNCHAL | .710 | 45.1 | .260 | 68.1 | .061 | 46.3 | .044 | 306.3 |
| VILA DO PORTO | .504 | 33.2 | .183 | 52.7 | .037 | 53.3 | .026 | 304.3 |
| PONTA DELGADA | .487 | 35.1 | .177 | 55.0 | .042 | 53.2 | .026 | 308.9 |
| ANGRA DO HEROÍSMO | .447 | 36.2 | .162 | 55.6 | .041 | 58.7 | .022 | 315.7 |
| HORTA | .419 | 30.2 | .153 | 48.0 | .043 | 69.3 | .020 | 314.1 |
| LAJES DAS FLORES | .369 | 31.5 | .132 | 49.2 | .032 | 77.6 | .015 | 316.5 |

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ELEMENTOS DE MARÉS

2025

Horas do Fuso: 0 (TU)

| PORTO | PMmáx. | mês | dia | hora | min | PMAV. | PMAM. | NM. | BMAM. | BMAV. | BMmin. | mês | dia | hora | min |
|-------------------------------------|--------|-----|-----|------|-----|-------|-------|------|-------|-------|--------|-----|-----|------|-----|
| Viana do Castelo | 3.87 | 03 | 30 | 03 | 11 | 3.44 | 2.64 | 2.00 | 1.35 | 0.56 | 0.16 | 03 | 30 | 09 | 24 |
| Leixões | 3.87 | 03 | 30 | 03 | 13 | 3.44 | 2.64 | 2.00 | 1.35 | 0.56 | 0.18 | 03 | 30 | 09 | 23 |
| Aveiro | 3.68 | 03 | 30 | 03 | 36 | 3.31 | 2.61 | 2.00 | 1.38 | 0.66 | 0.32 | 03 | 30 | 09 | 24 |
| Figueira da Foz | 3.86 | 03 | 30 | 03 | 13 | 3.43 | 2.64 | 2.00 | 1.36 | 0.57 | 0.21 | 03 | 30 | 09 | 18 |
| Peniche | 3.86 | 03 | 30 | 02 | 59 | 3.42 | 2.64 | 2.00 | 1.36 | 0.58 | 0.20 | 03 | 30 | 09 | 09 |
| Cascais | 3.87 | 03 | 30 | 02 | 49 | 3.45 | 2.68 | 2.08 | 1.47 | 0.71 | 0.34 | 03 | 30 | 08 | 58 |
| Lisboa | 4.16 | 03 | 30 | 03 | 35 | 3.71 | 2.90 | 2.20 | 1.50 | 0.68 | 0.34 | 03 | 01 | 09 | 56 |
| Sesimbra | 3.73 | 03 | 02 | 03 | 52 | 3.37 | 2.60 | 2.00 | 1.40 | 0.65 | 0.22 | 03 | 30 | 08 | 58 |
| Setúbal (Troia) | 3.81 | 03 | 30 | 03 | 20 | 3.42 | 2.65 | 2.00 | 1.35 | 0.57 | 0.20 | 03 | 30 | 09 | 29 |
| Sines | 3.78 | 03 | 30 | 02 | 47 | 3.37 | 2.61 | 2.00 | 1.39 | 0.64 | 0.26 | 03 | 30 | 08 | 56 |
| Lagos | 3.82 | 03 | 30 | 02 | 38 | 3.42 | 2.62 | 2.00 | 1.38 | 0.60 | 0.23 | 03 | 30 | 08 | 46 |
| Faro-Olhão | 3.73 | 03 | 30 | 02 | 58 | 3.34 | 2.61 | 2.00 | 1.38 | 0.58 | 0.20 | 03 | 30 | 08 | 54 |
| Vila Real de Santo António | 3.86 | 10 | 07 | 14 | 27 | 3.37 | 2.61 | 2.00 | 1.39 | 0.69 | 0.32 | 03 | 01 | 09 | 35 |
| Funchal | 2.72 | 10 | 07 | 13 | 41 | 2.39 | 1.83 | 1.40 | 0.96 | 0.42 | 0.10 | 03 | 30 | 08 | 20 |
| Vila do Porto (Ilha de Santa Maria) | 1.97 | 09 | 09 | 15 | 17 | 1.71 | 1.30 | 1.00 | 0.68 | 0.31 | 0.05 | 03 | 30 | 08 | 54 |
| Ponta Delgada (Ilha de S. Miguel) | 1.90 | 03 | 30 | 02 | 42 | 1.67 | 1.30 | 1.00 | 0.70 | 0.34 | 0.13 | 03 | 30 | 08 | 59 |
| Angra do Heroísmo (Ilha Terceira) | 1.85 | 10 | 07 | 14 | 17 | 1.62 | 1.27 | 1.00 | 0.72 | 0.38 | 0.24 | 03 | 29 | 08 | 20 |
| Horta (Ilha do Faial) | 1.79 | 03 | 30 | 02 | 29 | 1.59 | 1.25 | 1.00 | 0.75 | 0.42 | 0.25 | 03 | 30 | 08 | 48 |
| Lajes das Flores (Ilha das Flores) | 1.69 | 10 | 07 | 14 | 10 | 1.52 | 1.22 | 1.00 | 0.77 | 0.49 | 0.32 | 03 | 30 | 08 | 48 |

| | |
|--------|---------------------------|
| PMmáx. | Preia-Mar máxima |
| PMAV. | Preia-Mar de Águas Vivas |
| PMAM. | Preia-Mar de Águas Mortas |
| NM. | Nível Médio |
| BMAM. | Baixa-Mar de Águas Mortas |
| BMAV. | Baixa-Mar de Águas Vivas |
| BMmin. | Baixa-Mar mínima |

ANEXOS


CALENDÁRIO



2025

| JANEIRO | | | | | FEVEREIRO | | | | | MARÇO | | | | | | |
|---------|---|----|----|----|-----------|------|----|----|----|----------|------|----|----|----|----|----|
| DOM. | 5 | 12 | 19 | 26 | DOM. | 2 | 9 | 16 | 23 | DOM. | 2 | 9 | 16 | 23 | 30 | |
| SEG. | 6 | 13 | 20 | 27 | SEG. | 3 | 10 | 17 | 24 | SEG. | 3 | 10 | 17 | 24 | 31 | |
| TER. | 7 | 14 | 21 | 28 | TER. | 4 | 11 | 18 | 25 | TER. | 4 | 11 | 18 | 25 | | |
| QUA. | 1 | 8 | 15 | 22 | 29 | QUA. | 5 | 12 | 19 | 26 | QUA. | 5 | 12 | 19 | 26 | |
| QUI. | 2 | 9 | 16 | 23 | 30 | QUI. | 6 | 13 | 20 | 27 | QUI. | 6 | 13 | 20 | 27 | |
| SEX. | 3 | 10 | 17 | 24 | 31 | SEX. | 7 | 14 | 21 | 28 | SEX. | 7 | 14 | 21 | 28 | |
| SÁB. | 4 | 11 | 18 | 25 | SÁB. | 1 | 8 | 15 | 22 | SÁB. | 1 | 8 | 15 | 22 | 29 | |
| ABRIL | | | | | MAIO | | | | | JUNHO | | | | | | |
| DOM. | 6 | 13 | 20 | 27 | DOM. | 4 | 11 | 18 | 25 | DOM. | 1 | 8 | 15 | 22 | 29 | |
| SEG. | 7 | 14 | 21 | 28 | SEG. | 5 | 12 | 19 | 26 | SEG. | 2 | 9 | 16 | 23 | 30 | |
| TER. | 1 | 8 | 15 | 22 | 29 | TER. | 6 | 13 | 20 | 27 | TER. | 3 | 10 | 17 | 24 | |
| QUA. | 2 | 9 | 16 | 23 | 30 | QUA. | 7 | 14 | 21 | 28 | QUA. | 4 | 11 | 18 | 25 | |
| QUI. | 3 | 10 | 17 | 24 | QUI. | 1 | 8 | 15 | 22 | 29 | QUI. | 5 | 12 | 19 | 26 | |
| SEX. | 4 | 11 | 18 | 25 | SEX. | 2 | 9 | 16 | 23 | 30 | SEX. | 6 | 13 | 20 | 27 | |
| SÁB. | 5 | 12 | 19 | 26 | SÁB. | 3 | 10 | 17 | 24 | 31 | SÁB. | 7 | 14 | 21 | 28 | |
| JULHO | | | | | AGOSTO | | | | | SETEMBRO | | | | | | |
| DOM. | 6 | 13 | 20 | 27 | DOM. | 3 | 10 | 17 | 24 | 31 | DOM. | 7 | 14 | 21 | 28 | |
| SEG. | 7 | 14 | 21 | 28 | SEG. | 4 | 11 | 18 | 25 | SEG. | 1 | 8 | 15 | 22 | 29 | |
| TER. | 1 | 8 | 15 | 22 | 29 | TER. | 5 | 12 | 19 | 26 | TER. | 2 | 9 | 16 | 23 | 30 |
| QUA. | 2 | 9 | 16 | 23 | 30 | QUA. | 6 | 13 | 20 | 27 | QUA. | 3 | 10 | 17 | 24 | |
| QUI. | 3 | 10 | 17 | 24 | 31 | QUI. | 7 | 14 | 21 | 28 | QUI. | 4 | 11 | 18 | 25 | |
| SEX. | 4 | 11 | 18 | 25 | SEX. | 1 | 8 | 15 | 22 | 29 | SEX. | 5 | 12 | 19 | 26 | |
| SÁB. | 5 | 12 | 19 | 26 | SÁB. | 2 | 9 | 16 | 23 | 30 | SÁB. | 6 | 13 | 20 | 27 | |
| OUTUBRO | | | | | NOVEMBRO | | | | | DEZEMBRO | | | | | | |
| DOM. | 5 | 12 | 19 | 26 | DOM. | 2 | 9 | 16 | 23 | 30 | DOM. | 7 | 14 | 21 | 28 | |
| SEG. | 6 | 13 | 20 | 27 | SEG. | 3 | 10 | 17 | 24 | SEG. | 1 | 8 | 15 | 22 | 29 | |
| TER. | 7 | 14 | 21 | 28 | TER. | 4 | 11 | 18 | 25 | TER. | 2 | 9 | 16 | 23 | 30 | |
| QUA. | 1 | 8 | 15 | 22 | 29 | QUA. | 5 | 12 | 19 | 26 | QUA. | 3 | 10 | 17 | 24 | 31 |
| QUI. | 2 | 9 | 16 | 23 | 30 | QUI. | 6 | 13 | 20 | 27 | QUI. | 4 | 11 | 18 | 25 | |
| SEX. | 3 | 10 | 17 | 24 | 31 | SEX. | 7 | 14 | 21 | 28 | SEX. | 5 | 12 | 19 | 26 | |
| SÁB. | 4 | 11 | 18 | 25 | SÁB. | 1 | 8 | 15 | 22 | 29 | SÁB. | 6 | 13 | 20 | 27 | |

FASES DA LUA

2025

| MÊS | DIA | HORA | FASE | MÊS | DIA | HORA | FASE |
|-----------|-----|-------|---|----------|-----|-------|---|
| JANEIRO | 6 | 23:56 |  | JULHO | 2 | 19 30 |  |
| | 13 | 22 27 |  | | 10 | 20 37 |  |
| | 21 | 20 31 |  | | 18 | 0 38 |  |
| | 29 | 12 36 |  | | 24 | 19 11 |  |
| FEVEREIRO | 5 | 8 02 |  | AGOSTO | 1 | 12 41 |  |
| | 12 | 13 53 |  | | 9 | 07 55 |  |
| | 20 | 17 32 |  | | 16 | 05 12 |  |
| | 28 | 0 45 |  | | 23 | 06 06 |  |
| MARÇO | 6 | 16 31 |  | SETEMBRO | 7 | 18 09 |  |
| | 14 | 6 55 |  | | 14 | 10 33 |  |
| | 22 | 11 29 |  | | 21 | 19 54 |  |
| | 29 | 10 58 |  | | 29 | 23 54 |  |
| ABRIL | 5 | 2 15 |  | OUTUBRO | 7 | 3 47 |  |
| | 13 | 0 22 |  | | 13 | 18 13 |  |
| | 21 | 1 35 |  | | 21 | 12 25 |  |
| | 27 | 19 31 |  | | 29 | 16 21 |  |
| MAIO | 4 | 13 52 |  | NOVEMBRO | 5 | 13 19 |  |
| | 12 | 16 56 |  | | 12 | 5 28 |  |
| | 20 | 11 59 |  | | 20 | 6 47 |  |
| | 27 | 3 02 |  | | 28 | 6 49 |  |
| JUNHO | 3 | 3 41 |  | DEZEMBRO | 4 | 23 14 |  |
| | 11 | 7 44 |  | | 11 | 20 52 |  |
| | 18 | 19 19 |  | | 20 | 01 43 |  |
| | 25 | 10 31 |  | | 27 | 19 10 |  |

 LUA NOVA
 QUARTO CRESCENTE



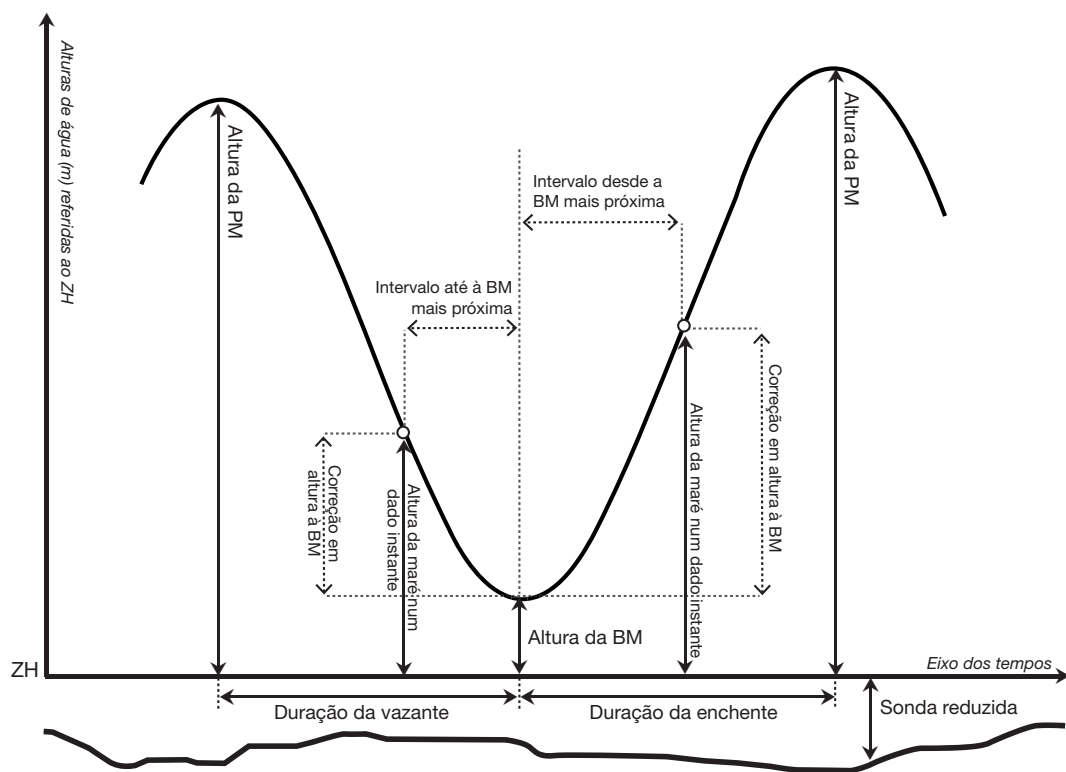
 LUA CHEIA
 QUARTO MINGUANTE

TABELA PARA CALCULAR A ALTURA DA MARÉ EM QUALQUER INSTANTE

| DURAÇÃO DA ENCHENTE OU DA VAZANTE | | | | | | | | | | | | AMPLITUDE DA MARÉ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------|------|------|------|------|------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| INTERVALO ATÉ OU DESDE A BM MAIS PRÓXIMA | | | | | | | | | | | | CORREÇÕES ADITIVAS À ALTURA DA BM MAIS PRÓXIMA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4:00 | 4:15 | 4:30 | 4:45 | 5:00 | 5:15 | 5:30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 0:25 | 0:50 | 0:75 | 1:00 | 1:25 | 1:50 | 1:75 | 2:00 | 2:25 | 2:50 | 2:75 | 3:00 | 3:25 | 3:50 | 3:75 | 4:00 | 4:25 | 4:50 | 4:75 | 5:00 | | | | | |
| 0:08 | 0:09 | 0:09 | 0:10 | 0:10 | 0:11 | 0:11 | 0:12 | 0:12 | 0:13 | 0:13 | 0:14 | 0:14 | 0:15 | 0:15 | 0:16 | 0:16 | 0:00 | 0:00 | 0:00 | 0:00 | 0:00 | 0:00 | 0:00 | 0:01 | 0:01 | 0:01 | 0:01 | 0:01 | 0:01 | 0:01 | 0:01 | 0:01 | 0:01 | 0:01 | 0:01 | 0:01 | 0:01 | 0:01 | 0:01 | 0:01 | |
| 0:16 | 0:17 | 0:18 | 0:19 | 0:20 | 0:21 | 0:22 | 0:23 | 0:24 | 0:25 | 0:26 | 0:27 | 0:28 | 0:29 | 0:30 | 0:31 | 0:32 | 0:00 | 0:01 | 0:01 | 0:01 | 0:01 | 0:02 | 0:02 | 0:02 | 0:02 | 0:03 | 0:03 | 0:03 | 0:04 | 0:04 | 0:04 | 0:04 | 0:04 | 0:04 | 0:05 | 0:05 | 0:05 | 0:05 | 0:05 | 0:05 | |
| 0:24 | 0:26 | 0:27 | 0:29 | 0:30 | 0:31 | 0:33 | 0:35 | 0:36 | 0:38 | 0:39 | 0:41 | 0:42 | 0:44 | 0:45 | 0:47 | 0:48 | 0:01 | 0:01 | 0:02 | 0:02 | 0:03 | 0:04 | 0:04 | 0:05 | 0:06 | 0:06 | 0:07 | 0:07 | 0:08 | 0:09 | 0:10 | 0:10 | 0:10 | 0:10 | 0:10 | 0:10 | 0:10 | 0:11 | 0:12 | 0:12 | |
| 0:32 | 0:34 | 0:36 | 0:38 | 0:40 | 0:42 | 0:44 | 0:46 | 0:48 | 0:50 | 0:52 | 0:54 | 0:56 | 0:58 | 1:00 | 1:02 | 1:04 | 0:01 | 0:02 | 0:03 | 0:04 | 0:05 | 0:06 | 0:08 | 0:09 | 0:10 | 0:11 | 0:12 | 0:13 | 0:14 | 0:15 | 0:16 | 0:17 | 0:18 | 0:19 | 0:21 | 0:22 | 0:22 | 0:22 | 0:22 | 0:22 | 0:22 |
| 0:40 | 0:42 | 0:45 | 0:48 | 0:50 | 0:53 | 0:55 | 0:58 | 1:00 | 1:03 | 1:05 | 1:08 | 1:10 | 1:12 | 1:15 | 1:18 | 1:20 | 0:02 | 0:03 | 0:05 | 0:07 | 0:08 | 0:10 | 0:12 | 0:13 | 0:15 | 0:17 | 0:18 | 0:20 | 0:22 | 0:23 | 0:25 | 0:27 | 0:28 | 0:30 | 0:32 | 0:33 | 0:33 | 0:33 | 0:33 | 0:33 | |
| 0:48 | 0:51 | 0:54 | 0:57 | 1:00 | 1:03 | 1:06 | 1:09 | 1:12 | 1:15 | 1:18 | 1:21 | 1:24 | 1:27 | 1:30 | 1:33 | 1:36 | 0:02 | 0:05 | 0:07 | 0:10 | 0:12 | 0:14 | 0:17 | 0:19 | 0:21 | 0:24 | 0:26 | 0:29 | 0:31 | 0:33 | 0:36 | 0:38 | 0:41 | 0:43 | 0:45 | 0:48 | 0:48 | 0:48 | 0:48 | | |
| 0:56 | 0:60 | 1:03 | 1:07 | 1:10 | 1:13 | 1:17 | 1:21 | 1:24 | 1:28 | 1:31 | 1:35 | 1:38 | 1:42 | 1:45 | 1:49 | 1:52 | 0:03 | 0:06 | 0:10 | 0:13 | 0:16 | 0:19 | 0:22 | 0:26 | 0:29 | 0:32 | 0:35 | 0:39 | 0:42 | 0:45 | 0:48 | 0:51 | 0:55 | 0:58 | 0:61 | 0:64 | 0:64 | 0:64 | 0:64 | | |
| 1:04 | 1:08 | 1:12 | 1:16 | 1:20 | 1:24 | 1:28 | 1:32 | 1:36 | 1:40 | 1:44 | 1:48 | 1:52 | 1:56 | 2:00 | 2:04 | 2:08 | 0:04 | 0:08 | 0:12 | 0:17 | 0:21 | 0:25 | 0:29 | 0:33 | 0:37 | 0:41 | 0:45 | 0:50 | 0:54 | 0:58 | 0:62 | 0:66 | 0:70 | 0:74 | 0:79 | 0:83 | 0:83 | 0:83 | 0:83 | | |
| 1:12 | 1:16 | 1:21 | 1:25 | 1:30 | 1:35 | 1:39 | 1:44 | 1:48 | 1:53 | 1:57 | 2:01 | 2:06 | 2:10 | 2:15 | 2:20 | 2:24 | 0:05 | 0:10 | 0:15 | 0:21 | 0:26 | 0:31 | 0:36 | 0:41 | 0:46 | 0:52 | 0:57 | 0:62 | 0:67 | 0:72 | 0:77 | 0:82 | 0:88 | 0:93 | 0:98 | 1:03 | 1:03 | 1:03 | 1:03 | | |
| 1:20 | 1:25 | 1:30 | 1:35 | 1:40 | 1:45 | 1:50 | 1:55 | 2:00 | 2:05 | 2:10 | 2:15 | 2:20 | 2:25 | 2:30 | 2:35 | 2:40 | 0:06 | 0:12 | 0:19 | 0:25 | 0:31 | 0:37 | 0:44 | 0:50 | 0:56 | 0:62 | 0:69 | 0:75 | 0:81 | 0:87 | 0:94 | 1:00 | 1:06 | 1:12 | 1:19 | 1:25 | 1:25 | 1:25 | | | |
| 1:28 | 1:34 | 1:39 | 1:45 | 1:50 | 1:55 | 2:01 | 2:07 | 2:12 | 2:18 | 2:23 | 2:29 | 2:34 | 2:39 | 2:45 | 2:51 | 2:56 | 0:07 | 0:15 | 0:22 | 0:30 | 0:37 | 0:44 | 0:52 | 0:59 | 0:67 | 0:74 | 0:82 | 0:89 | 0:96 | 1:04 | 1:11 | 1:19 | 1:26 | 1:33 | 1:41 | 1:48 | 1:48 | 1:48 | | | |
| 1:36 | 1:42 | 1:48 | 1:54 | 2:00 | 2:06 | 2:12 | 2:18 | 2:24 | 2:30 | 2:36 | 2:42 | 2:48 | 2:54 | 3:00 | 3:06 | 3:12 | 0:09 | 0:17 | 0:26 | 0:35 | 0:43 | 0:52 | 0:60 | 0:69 | 0:78 | 0:86 | 0:95 | 1:04 | 1:12 | 1:21 | 1:30 | 1:38 | 1:47 | 1:55 | 1:64 | 1:73 | 1:73 | 1:73 | | | |
| 1:44 | 1:50 | 1:57 | 2:03 | 2:10 | 2:16 | 2:23 | 2:30 | 2:36 | 2:43 | 2:49 | 2:56 | 3:02 | 3:08 | 3:15 | 3:22 | 3:28 | 0:10 | 0:20 | 0:30 | 0:40 | 0:50 | 0:59 | 0:69 | 0:79 | 0:89 | 0:99 | 1:09 | 1:19 | 1:29 | 1:39 | 1:49 | 1:58 | 1:68 | 1:78 | 1:88 | 1:98 | 1:98 | 1:98 | | | |
| 1:52 | 1:59 | 2:06 | 2:13 | 2:20 | 2:27 | 2:34 | 2:41 | 2:48 | 2:55 | 3:02 | 3:09 | 3:16 | 3:23 | 3:30 | 3:37 | 3:44 | 0:11 | 0:22 | 0:34 | 0:45 | 0:56 | 0:67 | 0:78 | 0:90 | 1:01 | 1:12 | 1:23 | 1:34 | 1:46 | 1:57 | 1:68 | 1:79 | 1:90 | 2:01 | 2:13 | 2:24 | 2:24 | 2:24 | | | |
| 2:00 | 2:08 | 2:15 | 2:23 | 2:30 | 2:38 | 2:45 | 2:53 | 3:00 | 3:08 | 3:15 | 3:23 | 3:30 | 3:38 | 3:45 | 3:53 | 4:00 | 0:12 | 0:25 | 0:38 | 0:50 | 0:63 | 0:75 | 0:88 | 1:00 | 1:13 | 1:25 | 1:38 | 1:50 | 1:63 | 1:75 | 1:87 | 2:00 | 2:13 | 2:25 | 2:38 | 2:50 | 2:50 | 2:50 | | | |
| 2:08 | 2:16 | 2:24 | 2:32 | 2:40 | 2:48 | 2:56 | 3:04 | 3:12 | 3:20 | 3:28 | 3:36 | 3:44 | 3:52 | 4:00 | 4:08 | 4:16 | 0:14 | 0:28 | 0:41 | 0:55 | 0:69 | 0:83 | 0:97 | 1:10 | 1:24 | 1:38 | 1:52 | 1:66 | 1:79 | 1:93 | 2:07 | 2:21 | 2:35 | 2:49 | 2:62 | 2:76 | 2:76 | 2:76 | | | |
| 2:16 | 2:24 | 2:33 | 2:41 | 2:50 | 2:58 | 3:07 | 3:16 | 3:24 | 3:33 | 3:41 | 3:50 | 3:58 | 4:07 | 4:15 | 4:24 | 4:32 | 0:15 | 0:30 | 0:45 | 0:60 | 0:75 | 0:91 | 1:06 | 1:21 | 1:36 | 1:51 | 1:66 | 1:81 | 1:96 | 2:11 | 2:26 | 2:42 | 2:57 | 2:72 | 2:87 | 3:02 | 3:02 | 3:02 | | | |
| 2:24 | 2:33 | 2:42 | 2:51 | 3:00 | 3:09 | 3:18 | 3:27 | 3:36 | 3:45 | 3:54 | 4:03 | 4:12 | 4:21 | 4:30 | 4:39 | 4:48 | 0:16 | 0:33 | 0:49 | 0:65 | 0:82 | 0:98 | 1:15 | 1:31 | 1:47 | 1:64 | 1:80 | 1:96 | 2:13 | 2:29 | 2:45 | 2:62 | 2:78 | 2:95 | 3:11 | 3:27 | 3:27 | 3:27 | | | |
| 2:32 | 2:41 | 2:51 | 3:00 | 3:10 | 3:19 | 3:29 | 3:39 | 3:48 | 3:58 | 4:07 | 4:17 | 4:26 | 4:36 | 4:45 | 4:55 | 5:04 | 0:18 | 0:35 | 0:53 | 0:70 | 0:88 | 1:06 | 1:23 | 1:41 | 1:58 | 1:76 | 1:93 | 2:11 | 2:29 | 2:46 | 2:64 | 2:81 | 2:99 | 3:17 | 3:34 | 3:52 | 3:52 | 3:52 | | | |
| 2:40 | 2:50 | 3:00 | 3:10 | 3:20 | 3:30 | 3:40 | 3:50 | 4:00 | 4:10 | 4:20 | 4:30 | 4:40 | 4:50 | 5:00 | 5:10 | 5:20 | 0:19 | 0:37 | 0:56 | 0:75 | 0:94 | 1:12 | 1:31 | 1:50 | 1:69 | 1:87 | 2:06 | 2:25 | 2:44 | 2:62 | 2:81 | 3:00 | 3:19 | 3:37 | 3:56 | 3:75 | 3:75 | 3:75 | | | |
| 2:48 | 2:59 | 3:09 | 3:19 | 3:30 | 3:40 | 3:51 | 4:02 | 4:12 | 4:23 | 4:33 | 4:44 | 4:54 | 5:05 | 5:15 | 5:26 | 5:36 | 0:20 | 0:40 | 0:60 | 0:79 | 0:99 | 1:19 | 1:39 | 1:59 | 1:79 | 1:98 | 2:18 | 2:38 | 2:58 | 2:78 | 2:98 | 3:18 | 3:37 | 3:57 | 3:77 | 3:97 | 3:97 | 3:97 | | | |
| 2:56 | 3:07 | 3:18 | 3:29 | 3:40 | 3:51 | 4:02 | 4:13 | 4:24 | 4:35 | 4:46 | 4:57 | 5:08 | 5:19 | 5:30 | 5:41 | 5:52 | 0:21 | 0:42 | 0:63 | 0:83 | 1:04 | 1:25 | 1:46 | 1:67 | 1:88 | 2:09 | 2:30 | 2:50 | 2:71 | 2:92 | 3:13 | 3:34 | 3:55 | 3:76 | 3:96 | 4:17 | 4:17 | 4:17 | | | |
| 3:04 | 3:15 | 3:27 | 3:39 | 3:50 | 4:01 | 4:13 | 4:24 | 4:36 | 4:48 | 4:59 | 5:10 | 5:22 | 5:34 | 5:45 | 5:57 | 6:08 | 0:22 | 0:44 | 0:65 | 0:87 | 1:09 | 1:31 | 1:53 | 1:74 | 1:96 | 2:18 | 2:40 | 2:61 | 2:83 | 3:05 | 3:27 | 3:49 | 3:70 | 3:92 | 4:14 | 4:36 | 4:36 | 4:36 | | | |
| 3:12 | 3:24 | 3:36 | 3:48 | 4:00 | 4:12 | 4:24 | 4:36 | 4:48 | 5:00 | 5:12 | 5:24 | 5:36 | 5:48 | 6:00 | 6:12 | 6:24 | 0:23 | 0:45 | 0:68 | 0:90 | 1:13 | 1:36 | 1:58 | 1:81 | 2:04 | 2:26 | 2:49 | 2:71 | 2:94 | 3:17 | 3:39 | 3:62 | 3:84 | 4:07 | 4:30 | 4:52 | 4:52 | 4:52 | | | |
| 3:20 | 3:32 | 3:45 | 3:57 | 4:10 | 4:23 | 4:35 | 4:48 | 5:00 | 5:13 | 5:25 | 5:38 | 5:50 | 6:03 | 6:15 | 6:28 | 6:40 | 0:23 | 0:47 | 0:70 | 0:93 | 1:17 | 1:40 | 1:63 | 1:87 | 2:10 | 2:33 | 2:57 | 2:80 | 3:03 | 3:27 | 3:50 | 3:73 | 3:97 | 4:20 | 4:43 | 4:67 | 4:67 | 4:67 | | | |
| 3:28 | 3:41 | 3:54 | 4:07 | 4:20 | 4:33 | 4:46 | 4:59 | 5:12 | 5:25 | 5:38 | 5:51 | 6:04 | 6:17 | 6:30 | 6:43 | 6:56 | 0:24 | 0:48 | 0:72 | 0:96 | 1:20 | 1:44 | 1:67 | 1:91 | 2:15 | 2:39 | 2:63 | 2:87 | 3:11 | 3:35 | 3:59 | 3:83 | 4:07 | 4:31 | 4:54 | 4:78 | 4:78 | 4:78 | | | |
| 3:36 | 3:49 | 4:03 | 4:16 | 4:30 | 4:43 | 4:57 | 5:11 | 5:24 | 5:38 | 5:51 | 6:05 | 6:18 | 6:32 | 6:45 | 6:59 | 7:12 | 0:24 | 0:49 | 0:73 | 0:98 | 1:22 | 1:46 | 1:71 | 1:95 | 2:19 | 2:44 | 2:68 | 2:93 | 3:17 | 3:41 | 3:66 | 3:90 | 4:15 | 4:39 | 4:63 | 4:88 | 4:88 | 4:88 | | | |
| 3:44 | 3:58 | 4:12 | 4:26 | 4:40 | 4:54 | 5:08 | 5:22 | 5:36 | 5:50 | 6:04 | 6:18 | 6:32 | 6:46 | 7:00 | 7:14 | 7:28 | 0:25 | 0:49 | 0:74 | 0:99 | 1:24 | 1:48 | 1:73 | 1:98 | 2:23 | 2:47 | 2:72 | 2:97 | 3:21 | 3:46 | 3:71 | 3:96 | 4:20 | 4:45 | 4:70 | 4:95 | 4:95 | 4:95 | | | |
| 3:52 | 4:07 | 4:21 | 4:36 | 4:50 | 5:04 | 5:19 | 5:34 | 5:48 | 6:03 | 6:17 | 6:32 | 6:46 | 7:01 | 7:15 | 7:30 | 7:44 | 0:25 | 0:50 | 0:75 | 1:00 | 1:25 | 1:50 | 1:75 | 1:99 | 2:24 | 2:49 | 2:74 | 2:99 | 3:24 | 3:49 | 3:74 | 3:99 | 4:24 | 4:49 | 4:74 | 4:99 | 4:99 | 4:99 | | | |
| 4:00 | 4:15 | 4:30 | 4:45 | 5:00 | 5:15 | 5:30 | 5:45 | 6:00 | 6:15 | 6:30 | 6:45 | 7:00 | 7:15 | 7:30 | 7:45 | 8:00 | 0:25 | 0:50 | 0:75 | 1:00 | 1:25 | 1:50 | 1:75 | 2:00 | 2:25 | 2:50 | 2:75 | 3:00 | 3:25 | 3:50 | 3:75 | 4:00 | 4:25 | 4:50 | 4:75 | 5:00 | 5:00 | 5:00 | | | |

FIGURA EXPLICATIVA DA TABELA



GLOSSÁRIO DE TERMOS

Análise Harmônica – É o processo matemático através do qual se decompõe uma dada série de observações de alturas de água em constituintes harmônicas de periodicidade conhecida, e se determinam as constantes harmônicas para cada constituinte.

Águas Mortas (AM.) – ver Marés Mortas

Águas Vivas (AV.) – ver Marés Vivas

Baixa-Mar (BM.) – Altura de maré mínima registrada após o período de vazante.

Baixa-Mar de Águas Mortas (BMAM.) – É o valor médio, tomado ao longo do ano, das alturas de maré de duas baixa-mares sucessivas, que ocorrem quinzenalmente quando a amplitude de maré é menor (próximo das situações de Quarto Crescente ou Quarto Minguante).

Baixa-Mar de Águas Vivas (BMAV.) – É o valor médio, tomado ao longo do ano, das alturas de maré de duas baixa-mares sucessivas, que ocorrem quinzenalmente quando a amplitude de maré é maior (próximo das situações de Lua Nova ou Lua Cheia).

Baixa-Mar Inferior (BMinf.) – É o valor médio, tomado ao longo do ano, das baixa-mares mais baixas que ocorrem em cada dia, para marés com forte desigualdade diurna. Para os dias em que ocorre apenas uma BM., este fenómeno é incluído na média, por ser considerado o valor extremo nesse dia.

Baixa-Mar Mínima (BMmin.) – Nível da maré astronómica mais baixa. É a altura de água mínima que se prevê que possa ocorrer devida à maré astronómica.

Baixa-Mar Superior (BMsup.) – É o valor médio, tomado ao longo do ano, das baixa-mares mais altas que ocorrem em cada dia, para marés com forte desigualdade diurna. Os dias em que ocorre uma só BM. são excluídos da média.

Coefficientes de Maré – São as diferenças de alturas entre as preias-mar e baixas-mar consecutivas, num determinado local. São indicadores da amplitude de maré prevista.

Constantes Harmônicas – São as amplitudes e as diferenças de fase relativamente às constituintes da maré de equilíbrio, características de cada constituinte da maré real. As constantes harmônicas determinam-se a partir da análise harmônica de séries de observações, sendo posteriormente usadas na previsão das marés.

Constituinte da Maré (ou Constituinte Harmônica) – É um termo do desenvolvimento harmónico da força geradora da maré e da expressão correspondentepara a varia-

ção da altura da maré ou das componentes da corrente de maré. Cada constituinte tem a forma $y = A \cos(nt - g)$, em que y é uma função do tempo t . O coeficiente A é a amplitude da constituinte, que determina a sua importância relativa; n é a velocidade da constituinte, usualmente dada em graus por hora e conhecida a partir do desenvolvimento harmónico da força geradora da maré; g é o retardo da fase da constituinte numa dada origem temporal para a qual $t = 0$. O ângulo $nt - g$ varia uniformemente com t .

Corrente – Em termos práticos, designa-se por «corrente» a componente horizontal da velocidade da água. No âmbito do estudo das marés, as correntes podem ser classificadas em correntes de maré e correntes residuais.

Corrente de Maré – Corrente devida à atração exercida pelo Sol e pela Lua sobre a Terra, associada à maré. As correntes de maré variam no tempo com as mesmas periodicidades da maré, as quais são fixadas pelas leis do movimento do Sol e da Lua.

Corrente Residual – Corrente não associada à atração exercida pelo Sol e pela Lua sobre a Terra. As correntes residuais incluem correntes permanentes devidas à circulação geral, correntes devidas a efeitos meteorológicos, descargas de rios, etc.

Desigualdade Diurna – É a diferença de altura de maré entre duas preia-mares ou entre duas baixa-mares que ocorrem no mesmo dia. A desigualdade diurna varia com a declinação da Lua, e também (embora de forma menos pronunciada) com a declinação do Sol. A desigualdade diurna aumenta com a declinação, e diminui quando a Lua se aproxima do Equador.

Dia Lunar – É o período médio de rotação da Terra em relação à Lua, ou o intervalo médio entre duas passagens da Lua pelo meridiano superior do lugar. O dia lunar tem uma duração de 24.84 horas solares médias aproximadamente.

Enchente – Período entre uma BM. e a PM. sucessiva, quando a altura da Maré aumenta.

Estofo de Maré – Curto período em que a maré enchente atinge o nível mais elevado e passa para o estado de maré vazante, e em que o sentido da maré se inverte. Neste período não ocorre qualquer alteração do nível da superfície da água, e a intensidade da corrente da maré atinge o valor zero.

Macaréu – Fenómeno caracterizado pela formação de uma frente de onda em rebentação propagando-se num estuário, da embocadura para montante, em consequência da subida da maré. O macaréu pode ocorrer junto à embocadura de rios ou estuários com zonas extensas de fundos baixos, se a amplitude da maré for suficientemente grande.

Maré – É a subida e descida do nível das águas devida principalmente à atração gravitacional exercida pelo Sol e pela Lua sobre a Terra, mas também a efeitos meteorológicos e sazonais de periodicidade mal definida.

Maré Astronómica – É a variação periódica do nível das águas, devida à atração exercida pelo Sol e pela Lua sobre a Terra, cujas periodicidades são rigorosamente conhecidas. A maré astronómica é a única componente da maré que se pode prever rigorosamente. As previsões de marés apresentadas nas Tabelas de Marés do Instituto Hidrográfico referem-se exclusivamente à maré astronómica.

Maré de Equilíbrio – É uma maré de referência em relação à qual se descrevem as constituintes da maré real. É a maré astronómica que resultaria diretamente das forças atrativas devidas ao Sol e à Lua, caso não existissem massas continentais, a profundidade do oceano fosse uniforme e a massa líquida se ajustasse de forma instantânea às variações da força geradora da maré.

Maré Meteorológica – É a variação do nível das águas associada a efeitos meteorológicos e sazonais, tais como variações de pressão, ventos e alterações do caudal de rios, de periodicidade mal definida.

Marés Mortas (ou Águas Mortas) – São as marés de amplitude mais reduzida que ocorrem próximo das situações de Quarto Crescente ou Quarto Minguante, quando as forças atrativas devidas ao Sol e à Lua se cancelam mutuamente.

Marés Vivas (ou Águas Vivas) – São as marés de maior amplitude que ocorrem próximo das situações de Lua Nova ou Lua Cheia, quando as forças atrativas devidas ao Sol e à Lua se reforçam mutuamente.

Nível Médio (NM) – É o valor médio das alturas horárias da maré, relativamente a um nível de referência fixo (e.g. marca de nivelamento), resultante de séries de observações maregráficas de duração variável, de preferência igual ou superior a 19 anos, por forma a englobar pelo menos um ciclo completo de revolução dos nodos da órbita lunar. O nível médio varia de local para local.

Preia-Mar (PM.) – Altura de maré máxima registada após o período de enchente.

Preia-Mar de Águas Mortas (PMAM.) – É o valor médio, tomado ao longo do ano, das alturas de maré de duas preia-mares sucessivas, que ocorrem quinzenalmente quando a amplitude de maré é menor (próximo das situações de Quarto Crescente ou Quarto Minguante).

Preia-Mar de Águas-Vivas (PMAV.) – É o valor médio, tomado ao longo do ano, das alturas de maré de duas preia-mares sucessivas, que ocorrem quinzenalmente quando a amplitude de maré é maior (próximo das situações de Lua Nova ou Lua Cheia).

Preia-Mar Inferior (PMinf.) – É o valor médio, tomado ao longo do ano, das preia-mares mais baixas que ocorrem em cada dia, para marés com forte desigualdade diurna. Os dias em que ocorre uma só PM. são excluídos da média.

Preia-Mar Máxima (PMmáx.) – Nível da maré astronómica mais alta. É a altura de água máxima que se prevê que possa ocorrer devida à maré astronómica.

Preia-Mar Superior (PMsup.) – É o valor médio, tomado ao longo do ano, das preia-mares mais altas que ocorrem em cada dia, para marés com forte desigualdade diurna. Para os dias em que ocorre apenas uma PM., este fenómeno é incluído na média, por ser considerado o valor extremo nesse dia.

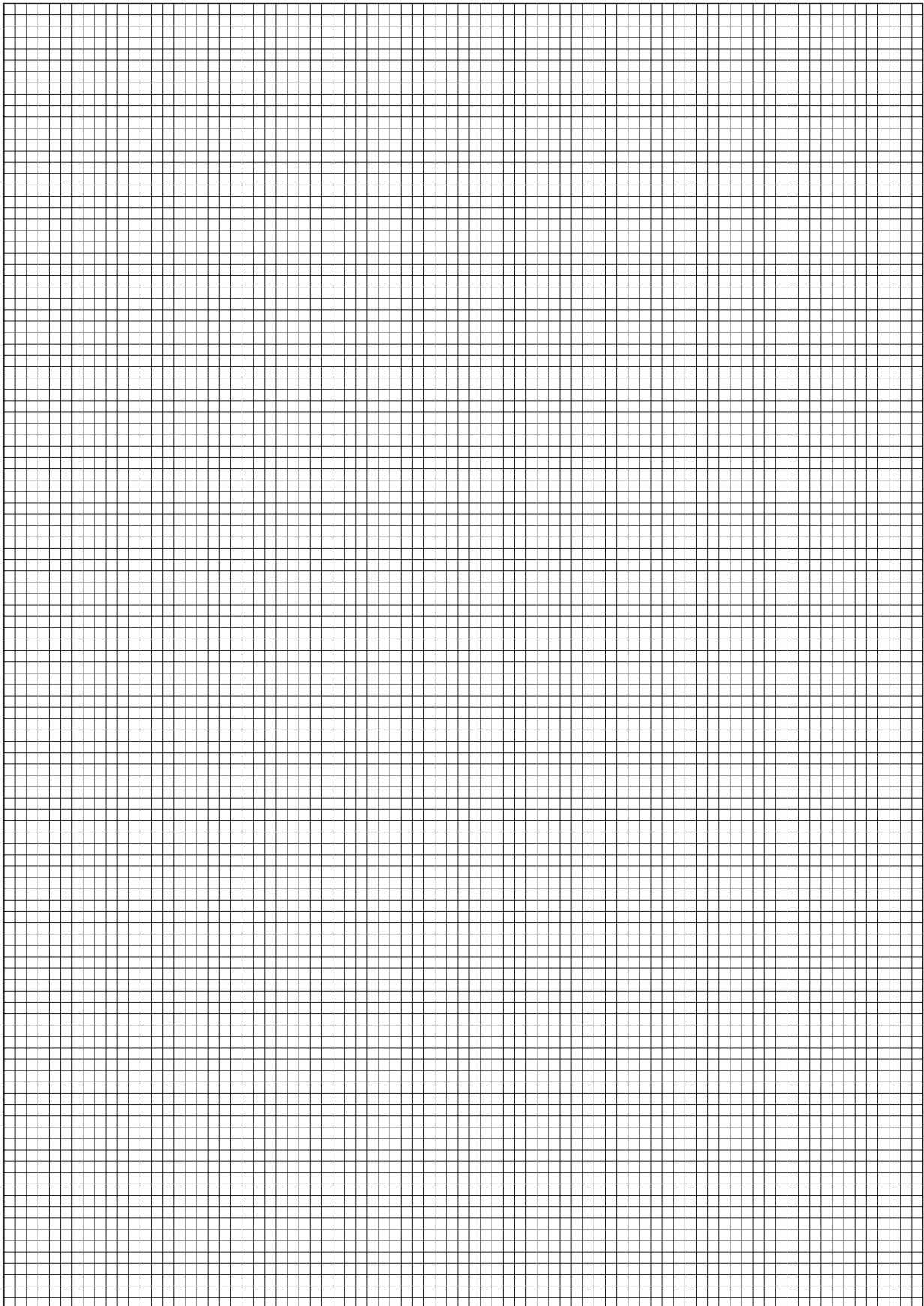
Tipo de Maré – É uma classificação baseada na forma característica da curva de maré. Nos locais para os quais se verificam duas preia-mares e duas baixa-mares em cada dia lunar, a maré diz-se semidiurna. Se existe uma forte desigualdade diurna nas preia-mares, ou baixa-mares, ou ambos os fenómenos, a maré diz-se mista. Nos locais para os quais só se verifica uma preia-mar e uma baixa-mar por dia, a maré diz-se diurna. O tipo de maré pode deduzir-se a partir das amplitudes das principais constituintes semidiurnas e das amplitudes das principais constituintes diurnas.

Vazante – Período entre uma PM. e a BM. sucessiva, quando a altura da maré diminui.

Zero Hidrográfico (ZH.) – Superfície em relação à qual são referidas as sondas e as linhas isobatimétricas das cartas náuticas, bem como as previsões de altura de maré que são publicadas nas Tabelas de Marés do Instituto Hidrográfico.

Nas cartas portuguesas, o ZH. fica situado abaixo do nível da maré astronómica mais baixa, pelo que as previsões de altura de maré são sempre positivas.

FOLHA AUXILIAR PARA INTERPRETAÇÃO GRÁFICA



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