TIDE TABLES AND PORT INFORMATION 2024

PORT OF LONDON AUTHORITY

HANDBOOK
OF
TIDE TABLES
AND PORT INFORMATION

2024

Price £3

Printed in England by
Real Print & Media Ltd
MAIDSTONE KENT ME15 6TA
01622 200123

Published and copyright by the Port of London Authority

pla.co.uk

About the Port of London Authority (PLA)

Covering 95 miles of the tidal River Thames, the PLA works to keep commercial and leisure users safe, protects and enhances the environment and promotes the use of the river for trade and travel.

As a Trust Port, we hold the river in trust, working to hand it on in a better condition to future generations.

A not-for-dividend organisation, we retain any financial surplus generated, and are consequently uniquely placed to make targeted, strategic investments to support delivery of our strategy, Thames Vision 2050.

Alongside improving the river, our principal responsibility is enabling people to use the tidal Thames safely. We engage actively and openly with stakeholders through a range of forums, throughout the year.

ALL TIDAL AND ASTRONOMICAL DATA ARE IN GREENWICH MEAN TIME – ONE HOUR MUST BE ADDED AT ALL TIMES WHEN BRITISH SUMMER TIME IS IN FORCE.

BST will be kept in Great Britain from 0100 31 March 2024 to 0100 27 October 2024.

The DATUM or zero of the predictions for tidal information in this publication is the same as that used on PLA and Admiralty Charts. The relationship of this Chart Datum and Ordnance Datum (Newlyn) is given on page 19.

In addition to this publication, predictions are also available on the PLA Website (pla.co.uk) in a user customisable format.

The sun and moon data (pages 80-85) are © Crown Copyright and/or subject to database rights. Reproduced by permission of the Controller of His Majesty's Stationery Office and the UK Hydrographic Office (www.gov.uk/hydro).

The information in this publication is correct at the time of going to press (November 2023). The PLA does not accept responsibility in law for the information in these tables.

Further information can be obtained from

www.pla.co.uk/hydrography

NOTE:

Low Water levels in the upper reaches of the tidal Thames are greatly affected by the land water flow at Teddington Weir. They frequently fall below chart datum when this flow is significantly reduced, typically during the summer months.

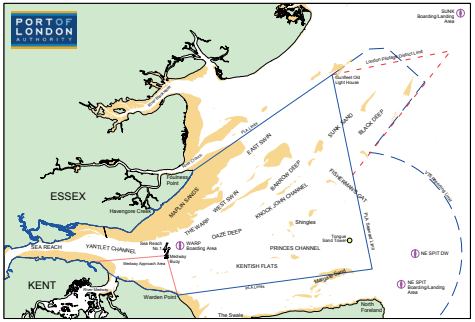
CONTENTS

Page

Port Limits 3
Port Communications 5
Tables of Distances within the Port of London 6-9
Outer Estuary Tables of Distances 10-11
River Thames - Designated Anchorages 12-15
Tidal Barriers on the Thames 16
Thames Bridge Clearances 17-18
Chart Datum & Tidal Levels in the Port 19
Tables of Average Time Differences 21
Search & Rescue Responsibilities & Arrangements for the Tidal Thames 27
Tide Tables 30-79
Sunrise & Sunset Data 80-82
Moonrise & Moonset Data 83-85
Conversion Table, Feet to Metres 86
Conversion Table, Kilowatts to Horse Power 87
Addresses & Telephone Numbers 89

PORT LIMITS

Port Limits are described in Schedule 1 of the Port of London Act 1968 (as amended) but in general terms include the tidal Thames from Teddington, encompassing both banks up to mean high water, eastward to Foulness Point in the north and Warden Point in the south. In the estuary the limits extend from Foulness point to Gunfleet Old Lighthouse, thence to a position 3 miles north of Margate, and back to Warden Point. The port limits exclude the River Medway and certain other creeks and rivers.



PILOTAGE

1. London Pilotage District Limits

These are fully described in current Pilotage Directions and can be described as the same as the Port Limits, but from Putney Bridge seaward and extend beyond port limits to the north east to the Long Sand Head.

2. Pilotage Directions

Information regarding the latest Pilotage Directions and regulations relating to the ordering of pilots and the issuing of Pilotage Exemption Certificates are contained in current Pilotage Directions, copies of which may be obtained from the Pilotage Service Administration Office, Navigation Publication Enquiries or PLA website www.pla.co.uk

3. VTS Area

The VTS Area for London VTS is from Teddington Lock in the West, to the boundary of the Sunk Precautionary Area in the North, thence to the London Arrival/Departure Arc in the East. London VTS has a comprehensive Traffic Image of the entire VTS Area based on radar from the seaward limits of the VTS Area to Greenwich and AIS coverage throughout the area.

PORT COMMUNICATIONS

London VTS delivers routine information broadcasts on the appropriate VHF Channel as part of its Information Service. The timing of broadcasts are as follows:
Estuary Sector (Outer limits of VTS Area to Sea Reach 4 Buoy) Ch69 H+15 & H+45
River Sector (Sea Reach 4 Buoy to Crayfordness) Ch68 H+00 & H+30
Barrier Sector (Crayfordness to Teddington) Ch14 H+15 & H+45

"Sunk VTS" (Sunk Inner Precautionary Area & TSS) Run by the MCA from CNIS Dover
V.H.F. Channels 14*, 9

"London VTS" Estuary Sector (Outer Reporting Points to S.R. No 4 Buoy) Run by PLA from Gravesend
V.H.F. Channels 69*, 18
Tidal Information Walton, Margate, Shivering Sand & Southend
Telephone: (01474) 560311

"London VTS" River Sector (S.R. No 4 Buoy to Crayfordness) Run by PLA from Gravesend
V.H.F. Channels 68*, 20
Tidal Information Shivering Sand, Southend, Coryton and Tilbury
Telephone: (01474) 560311

"London VTS" Barrier Sector (Crayfordness to Teddington incl. Thames Barrier Control Zone) Run by PLA from TBNC, Woolwich.**
V.H.F. Channels 14*, 22
Tidal Information Silvertown, Charlton & Tower Pier
Telephone: 0203 260 7711

"Medway VTS" (River Medway and approaches) Run by Medway Ports from Sheerness
V.H.F. Channels 73, 74*, 16 & 22
Tidal Information Sheerness (01795) 596596
Telephone: Sheerness (01795) 663025

"Sunk Pilots" (Boarding/Landing at Sunk Light Vessel)
V.H.F. Channel 9

"North East Spit Pilots" (Boarding/Landing at N.E. Spit buoy)
V.H.F. Channel 9

"Sheerness Pilots" (Boarding/Landing at the Warps and Oaze Deep)
V.H.F. Channel 69, 74

"London Pilots" (Boarding/Landing at Gravesend)
V.H.F. Channel 9

"Thames Patrol" (PLA Harbour Services Patrol Launches)
V.H.F. Channels 69, 14, 68 & 16

Ship/Tug communications
V.H.F. Channels normally available are:
Thames: 6, 8 & 10
Medway 6 & 9

"London Coastguard" (Maritime Rescue Co-ordination Centre) Run by the MCA from TBNC, Woolwich
VHF Channels: 16 & 67

*** Station›s primary working frequency**

****Thames Barrier Control Zone —** The river between Margaretness and Blackwall Point is subject to special navigational requirements concerning passage through the Thames Barrier. Mariners must observe traffic signals displayed on the barrier piers which indicate those spans open to navigation. Instructions will also be broadcast by TBNC on Channel 14.

For full details of navigational requirements for the Thames Barrier Control Zone, refer to the current General Direction for Navigation in the Port of London and Pilotage Directions. Details of planned closures are published by PLA Notices to Mariners twice each year.

TABLE OF DISTANCES WITHIN THE PORT OF LONDON

Above London Bridge

Sea miles		Land Miles
16.08	PLA Landward Limit	18.52
15.14	Eel Pie Island (Lower End)	17.43
15.04	Ham Landing Stage	17.32
14.55	Petersham Drawdock	16.75
13.97	Richmond Bridge	16.09
13.67	Richmond Railway Bridge	15.74
13.64	Twickenham Bridge	15.71
13.49	Richmond Lock & Footbridge (Recording Tide Gauge)	15.53
13.00	Isleworth Ait Sewage Outfalls	14.97
12.91	Church Ferry, Isleworth	14.87
11.88	River Brent and Grand Union Canal	13.68
11.33	Kew Bridge	13.05
11.30	Kew Pier	13.01
10.98	Kew Railway Bridge	12.64
10.22	Chiswick Bridge	11.77
10.16	University Stone, Mortlake	11.70
9.55	Barnes Railway Bridge	11.00
8.15	Hammersmith Pier	9.38
7.97	Hammersmith Bridge	9.18
7.73	Harrods Quay	8.90
6.92	Beverley Brook	7.97
6.54	Putney Pier	7.53
6.52	University Stone, Putney	7.51
6.45	Putney Bridge	7.43
6.31	Fulham Railway Bridge	7.27
5.74	Wandsworth Creek	6.61
5.46	Wandsworth Bridge	6.29
4.83	Battersea Railway Bridge	5.56
4.57	Chelsea Creek & Lots Rd. Generating Station	5.26
4.27	Battersea Road Bridge	4.92
4.04	Albert Bridge	4.65
4.02	Cadogan Pier	4.63
3.40	Chelsea Bridge (Recording Tide Gauge)	3.92
3.31	Victoria Railway Bridge	3.81
3.18	Battersea Generating Station	3.66
2.46	Vauxhall Bridge	2.83
2.02	Lambeth Bridge	2.33
1.64	Westminster Bridge	1.89
1.60	Westminster Pier	1.84
1.32	Charing Cross Bridge	1.52
1.12	Waterloo Bridge	1.29
0.63	Blackfriars Road Bridge	0.73
0.41	Millennium Footbridge	0.48
0.24	Southwark Bridge	0.28
0.16	Cannon Street Railway Bridge	0.18
0.00	London Bridge	0.00

TABLE OF DISTANCES WITHIN THE PORT OF LONDON

From London Bridge and Gravesend

Sea Miles From London Bridge		Sea Miles from Gravesend
	Upper Pool	
0.00	London Bridge	23.13
0.33	Tower Pier (Recording Tide Gauge)	22.80
0.48	Tower Bridge	22.65
0.73	St. Saviour's Dock	22.40
	Lower Pool	
1.05	Cherry Garden Pier	22.08
1.26	Wapping Pier	21.87
1.34	Thames Tunnel	21.79
1.62	Rotherhithe Tunnel	21.51
	Limehouse Reach	
2.08	Limehouse Basin Entrance	21.05
2.69	West India Pier	20.44
3.02	Greenland Dock Entrance	20.11
3.50	Convoys Jetty	19.63
	Greenwich Reach	
3.87	Deptford Creek Entrance.	19.26
4.17	Greenwich Pier	18.96
4.27	Greenwich Royal Naval College	18.86
	Blackwall Reach	
4.99	Victoria Deep Water Terminal (U/end)	18.14
5.39	India & Millwall Dock Entrance	17.74
5.55	Blackwall Tunnel (Western)	17.58
	Bugsby's Reach	
6.08	Bow Creek (River Lee) Entrance	17.05
6.70	Hookness Point	16.43
	Woolwich Reach	
7.01	Cory›s Pier (Recording Tide Gauge)	16.12
7.40	Thames Flood Barrier	15.73
7.52	Thames Barrier Navigation Centre	15.61
7.76	Thames Refinery Inner/ Outer (Recording Tide Gauge)	15.37
8.33	Woolwich Ferry & Foot Tunnel	14.80
	Gallions Reach	
8.89	Gallions or Bulls Point	14.24
9.10	King George V Dock Entrance	14.03
9.23	Gallions Marina Entrance	13.90

TABLE OF DISTANCES WITHIN THE PORT OF LONDON

From London Bridge and Gravesend

Sea Miles From London Bridge		Sea Miles from Gravesend
	Barking Reach	
9.87	Margaretness Lighthouse	13.26
10.12	Barking Creek (River Roding) Entrance	13.01
10.49	Barking Petroleum Limit for Seagoing Tankers	12.64
10.58	Barking Point	12.55
	Halfway Reach	
11.35	Crossness Point Lighthouse	11.78
11.90	Dagenham Dock No. 4 Jetty (U/end)	11.23
12.15	Ford›s Jetty (U/end) (Ferry	10.98
	Erith Reach	
13.02	Jenningtree Point	10.11
13.55	Rainham Pumping Unit	9.58
14.41	Erith Causeway	8.72
	Erith Rands	
14.45	Coldharbour Point Lighthouse	8.68
14.47	Erith Pier (Recording Tide Gauge)	8.66
15.49	Crayfordness Lighthouse	7.64
	Long Reach	
15.89	Dartford Creek Entrance	7.24
16.29	Harrison›s Jetty	6.84
17.22	Littlebrook Generating Station (U/end	5.91
17.68	Queen Elizabeth II Bridge	5.45
17.98	Vopak Terminal (U/end	5.15
	St Clements Reach	
18.75	Stoneness Lighthouse	4.38
19.41	Overhead Electric Transmission Cables	3.72
	Northfleet Hope	
20.11	Broadness Lighthouse	3.02
20.85	Tilbury Grain Terminal (U/end	2.28
21.44	Tilbury Container (L/end) (Recording Tide Gauge)	1.69
21.51	Tilbury Dock Entrance	1.62
21.70	Northfleet Traffic Warning Light	1.43
	Gravesend Reach	
22.00	Tilbury Cargo Jetty (U/end)	1.13
22.68	London International Cruise Terminal	0.45
23.13	Port Control Centre, Gravesend	0.00
23.15	Royal Terrace Pier	0.02
23.90	Denton Wharf (Recording Tide Gauge)	0.77
24.45	Diver Buoy	1.32
25.12	Tilbury Buoy	1.99

TABLE OF DISTANCES WITHIN THE PORT OF LONDON

From London Bridge and Gravesend

Sea Miles From London Bridge		Sea Miles from Gravesend
	Lower Hope	
25.55	Coalhouse Point	2.42
25.78	Ovens Buoy	2.65
26.49	Mucking No. 7 Buoy	3.36
27.23	Mucking No. 5 Buoy	4.10
	Sea Reach	
27.67	Lower Hope Point	4.54
27.88	Mucking No. 3 Buoy	4.75
27.98	Lower Hope Buoy	4.85
28.50	Mucking No. 1 Buoy	5.37
28.67	West Blyth Buoy	5.54
29.20	London Gateway (L/end) (Recording Tide Gauge)	6.07
30.50	Coryton No. 5 Jetty	7.37
30.79	Mid Blyth Buoy	7.66
31.25	Holehaven Creek Entrance	8.12
31.85	Calor Gas Jetty Canvey (Tanker Warning Light	8.72
33.69	Chapman Buoy	10.56
33.72	Sea Reach No. 7 Buoy (North	10.54
34.29	East Blyth Buoy	11.16
35.55	Sea Reach No. 6 Buoy (North	12.42
36.08	Crowstone — London Stone Line	12.95
36.55	Sea Reach No. 5 Buoy (North	13.42
37.57	Southend Pier Head (Recording Tide Gauge)	14.44
38.29	Sea Reach No. 4 Buoy (North	15.16
40.00	Sea Reach No. 3 Buoy (North	16.87
41.85	Sea Reach No. 2 Buoy (North	18.72
43.67	Sea Reach No. 1 Buoy (North) — PLA former seaward limit	20.54
	Seaward Limit	
64.82	When proceeding via Knock John Channel to a position near Black Deep No. 6 Buoy	41.69
65.82	When proceeding via Barrow Deep Channel to a position near the Barrow No. 2 Buoy	42.69

Note:— The above table gives the distances when the various marks are abeam of the normal Channel course.

OUTER ESTUARY

TABLE OF DISTANCES IN SEA MILES

FISHERMAN'S GAT ROUTE

No. 1 Sea Reach Buoy

2.8	Oaze Buoy				
9.6	6.8	Knock John No. 7 Buoy			
18.4	15.6	8.8	Inner Fisherman Buoy		
22.3	19.5	12.7	3.9	Outer Fisherman Buoy	
31.9	29.1	22.3	13.5	9.6	NE Spit Pilot Station

PRINCES CHANNEL ROUTE

No. 1 Sea Reach Buoy

2.8	Oaze Buoy					
7.7	4.9	Shivering Sand Tower				
8.8	6.0	1.1	Princes No. 6 Buoy			
13.0	10.2	5.3	4.2	Princes No. 2 Buoy		
16.4	13.6	8.7	7.6	3.4	Princes Outer Buoy	
21.6	18.8	13.9	12.8	8.6	5.2	E. Margate Buoy
24.7	21.9	17.0	15.9	11.7	8.3	3.1 NE Spit Pilot Station

OUTER ESTUARY

TABLE OF DISTANCES IN SEA MILES

BARROW DEEP AND WARP ROUTE

No. 1 Sea Reach Buoy

5.6	SW Barrow Buoy				
10.5	4.9	Barrow No. 10 Buoy			
15.9	10.3	5.4	Barrow No. 6 Buoy		
21.8	16.2	11.3	5.9	Barrow No. 3 Buoy	
29.5	23.9	19.0	13.6	7.7	Sunk Head Tower Buoy
34.7	29.1	24.2	18.8	12.9	5.2 Sunk Inner

KNOCK JOHN CHANNEL & BLACK DEEP ROUTE

No. 1 Sea Reach Buoy

9.6	Knock John No. 7 Buoy					
12.8	3.2	Knock John No. 1 Buoy				
18.5	8.9	5.7	Black Deep No. 7 Buoy			
25.6	16	12.8	7.1	Black Deep No. 3 Buoy		
31	21.4	18.2	12.5	5.4	Sunk Head Tower Buoy	
36.4	26.8	23.6	17.9	10.8	5.4	Sunk Inner

RIVER THAMES — DESIGNATED ANCHORAGES
LONDON BRIDGE TO THAMESHAVEN

Name	Area	Restriction
Regents Canal	North Side Lower Pool	2 hours
West India Dock (1)	North Side Blackwall Reach	2 hours
Barking Creek Entrance	North Side Barking Reach	2 hours
Thamesmead	South Side Barking Reach	4 hours
Halfway	South Side Halfway Reach	2 hours
Erith	South Side Erith Rands	2 hours
Long Reach (2)	South Side Long Reach	12 hours
St. Clements	South Side St. Clements Reach	12 hours
Gravesend Lower (3)	South Side Lower Gravesend Reach	12 hours Max Length 100m
Higham Bight (3)	South Side Lower Gravesend Reach	Unrestricted Max Length 100m

Notes

(1) West India Dock anchorages lie over the Jubilee Line tube tunnels. Vessels using these anchorages are exempt from the general requirement not to anchor within 60 metres of a tunnel.

(2) The Anchorage in Long Reach will normally be reserved for vessels of a size greater than 100m (328 feet) in length.

(3) Demarcation line between Gravesend Lower and Higham Bight Anchorages is an imaginary line extending 000° (T) from the upper outer corner of Clubbs Jetty at Denton, as shown on Admiralty Chart 1186.

RIVER THAMES — DESIGNATED ANCHORAGES
YANTLET TO THE BARROW

Name	Area	Restriction
Yantlet Small Ship	Between East Blyth buoy and 1000 metres East of West Nore Sand buoy — South Side Yanlet Channel	Unrestricted
Leigh Small Ship	Between West Leigh Middle buoy and Southend Pier — North Side Yantlet Channel	Unrestricted
Southend Small Ship	Off Southend Pier, North Side Yantlet Channel	Unrestricted
Southend Deep Water	Between West & South Shoebury buoys — North Side Yantlet Channel	Unrestricted
Warp	Off Blacktail Split	Large Tankers staging only
Mouse	ENE of North Oaze buoy	Unrestricted
Great Nore	Area to the North of the Medway Channel between Nos 1 and 7 buoys	Adminstered by Medway Ports
Little Nore	Between Grain Hard buoy and No. 11 Medway buoy — North Side Medway Channel	
Sheerness Small Ship	Between West Cant buoy and No. 8 Medway buoy — South Side Medway Channel	
Knob Special K3	Inner end of Knob Channel	Medway LNG
Shivering Sand	N. E. of Shivering Sand Towers	Unrestricted (See note 3)
Barrow Deep	W. of Barrow No. 3 Buoy	Unrestricted (See note 3)
Black Deep	Black Deep between Black Deep 5 and Black Deep 7 buoys	Large Vessels staging only

RIVER THAMES — DESIGNATED ANCHORAGE BERTHS

SEA REACH - SOUTHEND

Name	Latitude N. WGS 84	Longitude E.	Radius (Cables)	Depth (m) at C.D.	Bearing (T)	Distance (Miles)
					From Phoenix Unit	
A	51° 30.367	0° 44.470	1.67	8.4	264.0	0.94
B	51° 30.142	0° 45.194	1.67	11.5	236.0	0.58
C	51° 30.006	0° 45.701	1.67	12.5	199.5	0.49
D	51° 29.968	0° 46.235	1.67	11.5	161.0	0.53
E	51° 29.949	0° 46.787	1.67	11.6	135.0	0.73
F	51° 29.928	0° 47.327	1.67	12.1	122.5	1.01
					From Shoebury Beacon	
Z1	51° 29.742	0° 47.713	1.67	14.2	240.0	1.11
Z2	51° 29.731	0° 48.347	2.00	13.2	225.0	0.80
Z3	51° 29.757	0° 49.207	2.50	12.2	183.0	0.54
Z4	51° 29.841	0° 49.995	1.67	11.4	133.5	0.66
Z5	51° 29.907	0° 50.588	1.67	11.0	115.0	0.92
Z6	51° 30.023	0° 51.141	1.67	11.3	103.0	1.21
Z7	51° 30.084	0° 51.720	1.67	11.1	098.0	1.56
Z8	51° 30.180	0° 52.235	1.67	11.1	093.5	1.87
					From Blacktail West Beacon	
Z9	51° 30.240	0° 52.862	1.67	10.9	230.0	1.90
Z10	51° 30.366	0° 53.479	1.67	11.7	224.5	1.53
Z11	51° 30.508	0° 54.192	2.00	11.8	213.5	1.14
Z12	51° 30.625	0° 55.066	2.50	11.8	185.5	0.84
			WARP AND KNOB			
W1	51° 30.869	0° 55.883	2.50	13.9	144.0	0.73
W2	51° 31.193	0° 57.120	2.50	14.9	102.5	1.23
					From Shivering Sand North Tower	
K3	51° 30.356	1° 04.014	2.60	12.6	310.0	0.63

https://www.pla.co.uk/Safety/Sea-Reach-/-Estuary-Designated-Anchorages

GREAT NORE
Refer to Medway Ports Authority

Notes 1. WI & 2 anchor berths are normally used for staging large vessels. K3 may be used by other vessels provided a LNG vessel is not expected.
2. Depths shown in these berths are correct at the time of going to press. More recent information may be available from Port Control Centre, Gravesend.
3. To be used primarily by vessels awaiting clearance of restricted visibilty as per the Pilotage Direction. Usable in clear visibilty by small to medium sized vessels, subject to approval given by Port Control.

DIRECTIONS TO VESSELS ANCHORING
General Directions for Navigation in the Port of London states:

22. WAITING AND ANCHORING

(1) Reporting Vessels may only wait for a berth in the Thames:
a) at a mooring allocated to the Vessel by London VTS for that purpose, or
b) in a Designated Anchorage. Except with the permission of London VTS.

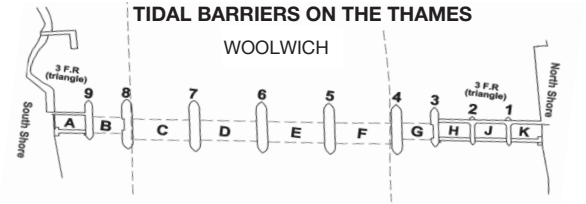
(2) Vessels are not permitted to wait or anchor:
a) in a Designated Anchorage for longer than the period (if any) specified for anchoring in such an area by the PLA;
b) in a Designated Ancorage where the Vessel's dimensions would normally preclude it using that anchorage; or
c) in a Fairway, other than for the purpose of manoeuvring. Except in an emergency, or with the permission of London VTS.

DEFINITIONS

j) *"Designated Anchorage"* means an area designated by a Harbourmaster as an anchorage area or berth and published on charts, in the PLA Handbook of Tide Tables and Port Information or in Notices to Mariners;

l) *"Fairway"* means a regular course or track of shipping, comprising all marked and/or charted navigable channels within the Thames and includes the following areas:
i) The Fisherman's Gat;
ii) The Princes Channel from the Tongue Sand Towers to the Oaze Precautionary Area;
iii) The Black Deep and Knock John Channels from the seaward limit to the Oaze Precautionary Area;
iv) The Barrow Deep and Mouse Channels from the seaward limit to the Warp;
v) The East and West Swin Channels from the seaward limit to the Warp;
vi) The Warp;
vii) The Oaze Precautionary Area; and
viii) The Thames to the west of Sea Reach No. 1 Buoy.

TIDAL BARRIERS ON THE THAMES



River Thames - **Thames Barrier Control Zone**: Margaretness to Blackwall Point.

Full details of navigational procedures in the **TBCZ** are contained in **General Direction 27 and Appendix** for Navigation in the Port of London.

The availability of spans for navigation are marked as follows
Red St. Andrew's Crosses (Lt) from Piers = Barrier or Span Closed.
Green Arrows (Lt) from Piers = Span Open.

In low visibility, high-intensity directional fixed white lights operate on either side of spans C, D, E and F in conjunction with the green arrows. The intensity of these lights is variable and may be adjusted on request to London VTS at TBNC

It is extremely dangerous to go through a Span that is marked Closed (for navigation), the gates may be in a semi-raised position.
Small Craft: Do not navigate above Thames Refinery jetty or below Royal Wharf unless intending to pass through the Barrier.

Depth over sill: Spans C, D & E, F = 5.8m. C.D. Spans B,G = 1.2m. C.D.

Call **London VTS** (Barrier Control) on Channel 14 at Margaretness and/or Blackwall Pt for permission to pass through the Barrier. If no VHF Radio then pass through the span marked by Green Arrows furthest to the starboard side of the channel.

Vessels fitted with an engine should use motor power to navigate through the Thames Barrier.

BARKING CREEK	MHWS clearance 33.3m	Creek Barriers show Fl.R. when closed.
DARTFORD CREEK	MHWS clearance 12.0m	
EASTHAVEN CREEK	MHWS clearance 3.2m	
FOBBING CREEK	MHWS clearance 9.2m	
BENFLEET CREEK	MHWS clearance 1.5m	

THAMES BRIDGE CLEARANCES

Minimum Clearance of NAVIGABLE ARCH in METRES above:

Bridge Name (Quoted Arch)	Chart Datum	MHWS	MHWN	MLWN	MLWS	HAT
Snapper (1)	5.4	2.9	3.9	5.4*	5.4*	2.1
Richmond (3)	7.9	5.5	6.5	7.9*	7.9*	4.7
Richmond Railway (2)	8.0	5.5	6.5	8.0*	8.0*	4.8
Twickenham (2)	8.5	6.1	7.1	8.5*	8.5*	5.3
Richmond Foot** (2)	10.5	5.7	6.7	10.2	10.4	5.0
Lots Ait Footbridge	9.0	3.9	4.9	8.6	8.8	3.2
Kew (2)	10.4	5.2	6.3	10.0	10.2	4.6
Kew Railway (4)	10.9	5.5	6.6	10.3	10.6	4.9
Chiswick (2)	12.0	6.6	7.7	11.5	11.8	6.0
Barnes Railway (2)	10.9	5.4	6.5	10.3	10.7	4.8
Hammersmith (South) (2)	9.3	3.5	4.6	8.6	9.0	2.9
Putney (3)	11.3	5.2	6.3	10.4	10.9	4.7
Fulham Railway (3)	12.7	6.6	7.8	11.9	12.4	6.1
Wandsworth (2)	11.8	5.7	6.8	11.0	11.5	5.1
Battersea Railway (3)	12.1	5.9	7.1	11.3	11.9	5.4
Battersea (3)	11.8	5.4	6.6	10.9	11.4	5.0
Albert (2)	11.5	5.2	6.4	10.6	11.2	4.7
Chelsea (2)	12.9	6.4	7.6	12.0	12.6	6.0
Victoria Railway (2)	12.4	5.9	7.1	11.4	12.0	5.4
Vauxhall (3)	12.2	5.6	6.8	11.2	11.9	5.1
Lambeth (3)	13.0	6.3	7.5	11.8	12.6	5.8
Westminster (4)	12.2	5.3	6.5	10.9	11.7	4.8
Charing Cross Railway (3)	13.8	6.9	8.1	12.5	13.3	6.4
Waterloo (3)	15.4	8.5	9.7	14.1	14.9	8.0
Blackfriars (3)	14.0	6.9	8.2	12.6	13.4	6.5
Blackfriars Railway (3)	14.0	6.9	8.2	12.6	13.4	6.5
Millennium Foot (2)	15.8	8.8	10.0	14.4	15.3	8.3
Southwark (3)	14.2	7.2	8.4	12.8	13.7	6.7
Cannon Street Railway (3)	14.1	7.1	8.3	12.7	13.6	6.6
London Bridge (2)	15.8	8.6	9.9	14.3	15.2	8.1
Tower (Closed) (2)	15.6	8.5	9.7	14.1	15.1	8.0
Tower (Open) (2)	49.6	42.4	43.7	48.1	49.0	41.9
London Cable Car	67.6	60.4	61.6	66.0	66.9	59.8
QE2 (5)	60.7	53.9	55.1	59.1	60.0	53.4

BOW CREEK BRIDGE CLEARANCES
Minimum Clearance of NAVIGABLE ARCH in METRES above:

Bridge Name (Quoted Arch)	Chart Datum	MHWS	MHWN	MLWN	MLWS	HAT
Lower Lea Crossing	16.5	9.2	10.5	14.8	15.8	8.7
Leamouth Lifting Footbridge (Lowered)	12.3	5.0	6.3	10.6	11.6	4.5
Leamouth Lifting Footbridge (Raised)	16.5	9.2	10.5	14.8	15.8	8.7
Docklands Light Railway	16.2	8.9	10.2	14.5	15.5	8.4
Canning Town Old Railway	12.1	4.8	6.1	10.4	11.4	4.3
Dock Road Foot	13.3	6.0	7.3	11.6	12.6	5.5
Canning Town Road	12.3	5.0	6.3	10.6	11.6	4.5
Barge Dock Foot	16.8	9.5	10.8	15.1	16.1	9.0
Alisa Wharf	12.5	5.2	6.5	10.8	11.8	4.7
Twelve Trees Road	12.1	4.8	6.1	10.4	11.4	4.3
Bow Locks Foot	12.2	4.9	6.2	10.5	11.5	4.4
District Line Rail	10.3	3.0	4.3	8.6	9.6	2.5
Hammersmith & City Rail	10.3	3.0	4.3	8.6	9.6	2.5
Channelsea Island Foot	10.4	3.1	4.4	8.7	9.7	2.6

DEPTFORD CREEK BRIDGE CLEARANCES
Minimum Clearance of NAVIGABLE ARCH in METRES above:

Bridge Name	Chart Datum	MHWS	MHWN	MLWN	MLWS	HAT
Deptford Swing (Closed)	10.2	2.9	4.2	8.6	9.5	2.4
Deptford Creek Lifting (Cl)	9.9	2.6	3.9	8.2	9.2	2.1
Deptford Rail	12.3	5.0	6.3	10.6	11.6	4.5
Deptford Creek Foot	10.1	2.8	4.1	8.4	9.4	2.3
Docklands Light Railway (x3)	12.5	5.2	6.5	10.8	11.8	4.7

* Refers to clearance above maintained water level.

** For details of the operation of the weir sluice-gates and lock associated with this bridge see page 34.

The arch number to which the measurement refers is given in the parenthesis next to the bridge name. Arches are numbered from the north shore to south shore.

Further information on all the bridges and individual arch heights can be found at **www.pla.co.uk** and in the PLA “Mariner’s Guide to Bridges on the Tidal Thames”.

CHART DATUMS & STANDARD LEVELS IN THE PORT OF LONDON

1. Chart Datum is set to approximately the level of Lowest Astronomical Tide (L.A.T.)
2. Low Water levels in the upper reaches of the tidal Thames are greatly affected by the land water flow at Teddington Weir. **They frequently fall below chart datum** when this flow is significantly reduced, typically during the summer months.
3. Maintained level and chart datum above Richmond half tide weir are both 1.72 metres above Ordnance Datum (Newlyn).
4. Trinity High Water (T.H.W.) is deemed, by the Port of London Act, 1968, to be a level having a value of 11.4 feet **(i.e. 3.475 metres)** above Ordnance Datum (Newlyn).

Tidal Station	Level of Chart Datum below Ordnance Datum (Newlyn) m	Standard levels above local C.D.				
		Mean Low Water Springs MLWS	Mean Low Water Neaps MLWN	Mean High Water Neaps MHWN	Mean High Water Springs MHWS	Highest Astronomical Tide (HAT)
WALTON	2.16	0.5	1.1	3.5	4.3	4.7
MARGATE	2.50	0.6	1.3	4.0	4.8	5.1
SHIVERING SAND	-	0.6	1.4	4.4	5.4	5.7
SOUTHEND	2.90	0.6	1.4	4.8	5.9	6.3
CANVEY	2.97	0.6	1.4	5.0	6.1	6.6
CORYTON	3.05	0.6	1.5	5.1	6.2	6.7
TILBURY	3.12	0.6	1.5	5.4	6.6	7.0
GREENHITHE	3.20	0.6	1.6	5.6	6.7	7.2
DAGENHAM	3.28	0.6	1.6	5.8	7.0	7.5
NORTH WOOLWICH	3.35	0.6	1.6	5.9	7.2	7.7
LONDON BRIDGE	3.20	0.5	1.5	5.9	7.1	7.6
BLACKFRIARS	3.05	0.5	1.4	5.8	7.0	7.5
WESTMINSTER	2.90	0.5	1.3	5.7	6.9	7.4
VAUXHALL	2.59	0.3	1.0	5.4	6.6	7.1
VICTORIA RAIL	2.44	0.3	0.9	5.3	6.5	6.9
ALBERT BRIDGE	2.29	0.3	0.9	5.1	6.3	6.8
WANDSWORTH	2.13	0.3	0.9	5.0	6.2	6.7
PUTNEY	1.98	0.3	0.8	4.9	6.1	6.6
HAMMERSMITH	1.68	0.3	0.7	4.7	5.8	6.4
BARNES	1.37	0.2	0.6	4.4	5.5	6.1
CHISWICK	1.22	0.2	0.5	4.3	5.3	6.0
KEW	1.07	0.2	0.5	4.2	5.2	5.9
BRENTFORD	0.91	0.1	0.4	4.0	5.0	5.7
RICHMOND	0.61	0.1	0.2	3.8	4.8	5.5
TWICKENHAM	Note 3	-		1.5	2.5	3.2

TABLE OF AVERAGE TIME DIFFERENCES

The times of high and low water at the following places on the River Thames may be found **approximately** by applying the differences shown to the times of high and low water given in the Tide Tables.

RICHMOND LOCK & WEIR

The sluice gates at Richmond Weir are raised approximately 2 hours before and 2 hours after high tide at Richmond Lock, depending on fluvial flows. In periods of unusual low and high fluvial flows, please contact the Lock Foreman for an up-to-date assessment of when the weirs will be raised. During this period, passage through the navigation spans of Richmond Footbridge is available. At all other times Richmond Lock may be used: length 76.2m width 7.9m for which there is a charge. This information can also be found in the PLA Charges book, or on the LED screen at Richmond Lock. Predicted times and heights of high and low waters are available for Richmond Lock at **www.pla.co.uk**

DIFFERENCES ON LONDON BRIDGE (TOWER PIER)

	For H.W.		For L.W.	
		h m		h m
Teddington Lock	add	1 01	add	—
*Richmond Lock	add	1 01	add	2 50
Kew Bridge	add	0 52	add	2 46
Barnes Railway Bridge	add	0 44	add	2 19
Hammersmith Bridge	add	0 38	add	1 58
Putney Bridge	add	0 31	add	1 38
Chelsea Bridge	add	0 14	add	0 45
Westminster Bridge	add	0 10	add	0 30
Greenland Dock Entrance	sub	0 9	sub	0 14

DIFFERENCES ON NORTH WOOLWICH

Greenwich Pier and Buoys	add	0 13	add	0 21
India & Millwall Dock Entrance	add	0 10	add	0 19
Royal Victoria Dock, Western Entrance	add	0 7	add	0 14

DIFFERENCES ON TILBURY

	For H.W.		For L.W.	
		h m		h m
Ford's (Dagenham)	add	0 23	add	0 33
Purfleet	add	0 12	add	0 17
London International Cruise Terminal	sub	0 4	sub	0 4
Diver Shoal	sub	0 7	sub	0 7

DIFFERENCES ON SOUTHEND-ON-SEA

Lower Hope Point	add	0 17	add	0 20
Holehaven	add	0 13	add	0 13
West Oaze Buoy	sub	0 10	sub	0 10

DIFFERENCES ON MARGATE

Princes Channel Bar	add	0 18	add	0 17
N.E. Spit	sub	0 10	sub	0 5

DIFFERENCES ON WALTON-ON-THE-NAZE

Knock John	add	0 28	add	0 35
Little Sunk	add	0 9	add	0 12
Sunk Pilot Station	sub	0 5	sub	0 14

PLA HYDROGRAPHIC SERVICES

The PLA offers an extensive range of hydrographic and survey services.

These include:

- Safety of navigation surveys and charting
- Dredging support and contracting
- Marine asset inspections and engineers' assessments
- Environmental monitoring
- Project management support

PORT OF LONDON AUTHORITY

For more information visit:
www.pla.co.uk/hydrography

PLA MARINE SERVICES

The PLA's dedicated Marine Services team provides essential support to commercial and leisure users of the river. They maintain aids to navigation, and inspect and overhaul more than 200 moorings along the river.

Our services include:

- Lifting and salvage, mooring maintenance
- Diving, underwater inspections
- Driftwood and debris clearance, pollution response

PORT OF LONDON AUTHORITY

For more information contact:
Email: MarineServices@pla.co.uk
Tel: 01474 562462

For PLA mooring availability:
VisitorMoorings@pla.co.uk
Telephone: 01474 562421

PLA DENTON WHARF

Purpose-built facility to undertake a wide range of marine operations in support of all river users. Ongoing investment of the site ensures all work undertaken can be completed to high environmental and safety standards.

Our services include:

- Jetty that is served by two boatlifts (70 and 35 tonnes)
- 30 tonne quay crane
- Self-propelled boat mover
- Deep water availability at jetty head
- Secure hard standing with lighting and CCTV

PORT OF LONDON AUTHORITY

Email: MarineServices@pla.co.uk
Tel: 01474 562462

For PLA mooring availability:
VisitorMoorings@pla.co.uk
Telephone: 01474 562421

MARINE SURVEYORS

The PLA's Marine Surveyors survey over 700 commercially operated vessels annually.

In addition to the PLA's statutory work, our Marine Surveyors undertake a variety of services for third parties on commercial vessels.

These include:

- Insurance
- New Build Consultancy Services
- Inland Waterways Certification

Surveys may be undertaken anywhere in Europe, with an aim of completion within two weeks of receiving instruction.

PORT OF LONDON AUTHORITY

For further information, contact
vesselsurvey@pla.co.uk.
Telephone: 01474 562441

PLA DRYING OUT FACILITIES

Isleworth Drawdock

- stretch of vertical river wall with regularly spaced piles and a riverbed
- suitable for taking the ground (for appropriate vessels)
- directly accessible by road
- unlimited vessel size
- available as either a full length or half-length berth (suitable for vessels up to 18m in length)

Kew Grid

- timber grid
- suitable for smaller vessels
- no road access
- limited to flat bottomed vessels (max. 25m length/9m beam/ displacement of 200 tons)

For more information, or charges, visit:
www.pla.co.uk/About-Us/PLA-Drying-Out-Facilities

PORT OF LONDON AUTHORITY

To book, call the Harbour Service Upper crew: **07711 640 095**

Lines open 7 days per week between 07:00 and 17:00.

REPORT NEAR MISSES!

PLEASE REPORT ALL NAVIGATIONAL NEAR MISSES YOU SEE

Recording when accidents or incidents are narrowly avoided helps prevent the risk of actual harm or injury.

Please report all near misses via the form on our website or download the PLA Tidal Thames app.

Scan this QR code for quick access to the form on the PLA website.

PORT OF LONDON AUTHORITY

www.pla.co.uk/safety

JOIN THE PORT OF LONDON AUTHORITY!

We offer exciting careers both on the river and shoreside, from Marine Pilots to VTS Officers and more.

We have lots of opportunities, including apprenticeships, in a variety of roles.

Interested in finding out more, or seeing our current vacancies, visit:

pla.co.uk/about-us/careers-at-the-PLA

PORT OF LONDON AUTHORITY

PLA Tide Tables

including
Sunrise & Sunset
✹
Moonrise & Moonset
for 2024

on pages 30 - 85

JANUARY 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
1	0228	3.9	0246	4.4	0302	4.9	0318	5.3	0351	5.9	0419	6.4	0437	6.4	**1**
M	0848	0.7	0918	0.9	0925	0.9	0936	0.9	1008	1.0	1039	1.0	1109	1.0	M
	1456	3.9	1521	4.3	1533	4.8	1549	5.3	1622	5.9	1648	6.5	1706	6.4	
	2042	1.1	2112	1.3	2123	1.3	2134	1.3	2206	1.3	2241	1.4	2312	1.3	
2	0303	3.9	0322	4.3	0337	4.8	0352	5.2	0424	5.8	0451	6.3	0509	6.3	**2**
TU	0925	0.7	0953	0.9	1001	1.0	1012	1.0	1041	1.0	1112	1.1	1140	1.1	TU
	1533	3.7	1559	4.1	1611	4.6	1626	5.1	1658	5.7	1723	6.3	1741	6.3	
	2119	1.2	2150	1.4	2200	1.4	2211	1.4	2242	1.4	2315	1.5	2345	1.4	
3	0340	3.8	0359	4.2	0413	4.7	0428	5.0	0458	5.6	0524	6.2	0543	6.2	**3**
W	1006	0.8	1033	1.0	1041	1.1	1051	1.1	1117	1.1	1143	1.2	1211	1.2	W
	1614	3.6	1639	4.0	1651	4.5	1705	4.9	1737	5.6	1802	6.2	1820	6.1	
	2202	1.3	2232	1.5	2242	1.6	2251	1.6	2319	1.6	2349	1.6			
4	0422	3.6	0440	4.1	0455	4.5	0508	4.9	0538	5.5	0603	6.0	0017	1.6	**4**
TH	1054	0.9	1119	1.1	1126	1.2	1134	1.2	1156	1.3	1217	1.4	0621	6.0	TH
☾	1702	3.5	1724	3.9	1736	4.4	1750	4.8	1822	5.4	1846	6.0	1243	1.3	☾
	2253	1.4	2320	1.6	2329	1.7	2336	1.7					1903	6.0	
5	0515	3.5	0529	4.0	0545	4.4	0558	4.8	0002	1.7	0028	1.8	0054	1.7	**5**
F	1152	1.0	1215	1.2	1221	1.3	1226	1.4	0628	5.3	0651	5.8	0707	5.8	F
	1802	3.4	1820	3.9	1830	4.3	1843	4.7	1244	1.4	1301	1.5	1324	1.4	
	2358	1.5							1916	5.3	1940	5.9	1958	5.8	
6	0623	3.5	0021	1.7	0028	1.8	0032	1.8	0056	1.8	0120	1.9	0142	1.8	**6**
SA	1259	1.0	0631	3.9	0647	4.3	0702	4.7	0734	5.2	0753	5.7	0807	5.7	SA
	1908	3.5	1321	1.3	1328	1.3	1335	1.4	1349	1.5	1404	1.6	1425	1.6	
			1931	3.9	1935	4.3	1948	4.7	2018	5.3	2045	5.9	2106	5.9	
7	0119	1.4	0141	1.6	0145	1.7	0146	1.8	0206	1.8	0226	1.9	0247	1.9	**7**
SU	0732	3.5	0749	3.9	0800	4.3	0816	4.7	0846	5.3	0914	5.8	0935	5.8	SU
	1403	1.0	1427	1.2	1436	1.3	1448	1.3	1508	1.4	1531	1.6	1558	1.5	
	2012	3.6	2040	4.0	2045	4.4	2056	4.8	2123	5.5	2152	6.0	2213	6.0	

8	0227	1.3	0255	1.5	0304	1.6	0311	1.6	0330	1.7	0354	1.8	0424	1.8	**8**
M	0837	3.6	0858	4.1	0909	4.5	0925	4.9	0954	5.5	1025	6.0	1046	6.0	M
	1501	0.9	1527	1.1	1538	1.2	1552	1.2	1618	1.3	1644	1.4	1711	1.3	
	2112	3.7	2137	4.2	2147	4.6	2159	5.0	2229	5.7	2257	6.3	2317	6.3	
9	0326	1.1	0357	1.3	0407	1.3	0419	1.4	0445	1.4	0513	1.5	0543	1.5	**9**
TU	0936	3.8	0956	4.2	1010	4.7	1025	5.1	1057	5.8	1128	6.3	1147	6.3	TU
	1554	0.9	1622	1.0	1633	1.1	1649	1.1	1719	1.1	1745	1.2	1814	1.2	
	2206	3.9	2228	4.3	2241	4.8	2256	5.3	2328	5.9	2357	6.5			
10	0420	0.9	0452	1.1	0504	1.1	0519	1.2	0549	1.2	0617	1.3	0018	6.5	**10**
W	1029	4.0	1049	4.4	1103	4.9	1119	5.4	1153	6.0	1224	6.6	0647	1.2	W
	1644	0.8	1712	0.9	1724	1.0	1742	1.0	1816	1.1	1843	1.1	1244	6.6	
	2256	4.0	2314	4.5	2330	5.0	2346	5.5					1916	1.1	
11	0513	0.7	0543	0.9	0556	0.9	0616	1.0	0021	6.1	0052	6.7	0112	6.7	**11**
TH	1119	4.1	1141	4.5	1154	5.1	1210	5.6	0650	1.0	0719	1.1	0752	1.1	TH
●	1730	0.8	1759	0.9	1812	0.9	1833	0.9	1245	6.3	1317	6.9	1337	6.9	●
	2343	4.1	2358	4.6					1909	1.0	1940	1.0	2016	1.0	
12	0603	0.6	0632	0.7	0016	5.1	0034	5.6	0109	6.3	0142	6.9	0202	6.8	**12**
F	1207	4.3	1233	4.7	0647	0.7	0709	0.8	0747	0.9	0821	0.9	0853	0.9	F
	1815	0.7	1844	0.8	1243	5.2	1259	5.8	1334	6.5	1407	7.1	1427	7.1	
					1858	0.8	1920	0.9	1959	0.9	2035	0.9	2110	0.9	
13	0030	4.2	0042	4.7	0101	5.2	0120	5.7	0155	6.4	0229	7.0	0248	6.9	**13**
SA	0652	0.5	0720	0.6	0736	0.6	0800	0.6	0839	0.7	0916	0.8	0947	0.7	SA
	1254	4.4	1324	4.8	1332	5.3	1348	6.0	1423	6.7	1455	7.3	1515	7.2	
	1859	0.7	1928	0.8	1943	0.8	2005	0.8	2045	0.8	2124	0.9	2158	0.8	
14	0116	4.3	0128	4.7	0147	5.3	0205	5.8	0241	6.5	0314	7.0	0333	7.0	**14**
SU	0740	0.3	0807	0.5	0823	0.5	0847	0.5	0927	0.6	1005	0.6	1035	0.5	SU
	1342	4.4	1415	4.8	1421	5.4	1436	6.0	1511	6.7	1542	7.3	1602	7.3	
	1942	0.7	2012	0.8	2027	0.8	2048	0.8	2129	0.8	2208	0.8	2242	0.8	
15	0202	4.3	0214	4.7	0232	5.3	0250	5.8	0325	6.5	0357	7.0	0416	7.0	**15**
M	0827	0.3	0854	0.4	0909	0.4	0932	0.4	1011	0.5	1049	0.5	1119	0.4	M
	1431	4.4	1505	4.7	1510	5.3	1525	5.9	1559	6.6	1629	7.3	1648	7.2	
	2025	0.8	2055	0.8	2110	0.9	2130	0.8	2210	0.8	2248	0.8	2322	0.8	

JANUARY 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
16 TU	0248	4.2	0300	4.7	0317	5.2	0334	5.7	0409	6.4	0439	7.0	0458	6.9	**16** TU
	0913	0.3	0941	0.5	0953	0.5	1015	0.5	1053	0.5	1128	0.5	1158	0.4	
	1520	4.2	1553	4.6	1558	5.2	1613	5.8	1647	6.5	1716	7.1	1735	7.0	
	2110	0.9	2139	0.9	2154	1.0	2212	0.9	2251	0.9	2327	0.9			
17 W	0334	4.2	0345	4.7	0403	5.1	0420	5.6	0454	6.2	0522	6.8	0000	0.9	**17** W
	1002	0.4	1029	0.6	1039	0.6	1057	0.6	1134	0.6	1206	0.6	0541	6.8	
	1611	4.1	1641	4.4	1648	5.0	1703	5.5	1737	6.2	1805	6.8	1236	0.6	
	2159	1.0	2225	1.1	2240	1.1	2256	1.1	2333	1.1			1824	6.8	
18 TH ☽	0423	4.1	0435	4.5	0452	5.0	0508	5.4	0541	6.1	0008	1.1	0040	1.1	**18** TH ☽
	1055	0.5	1121	0.7	1129	0.7	1143	0.8	1216	0.8	0608	6.6	0627	6.6	
	1706	3.9	1734	4.3	1741	4.8	1757	5.3	1829	6.0	1246	0.8	1316	0.8	
	2255	1.1	2318	1.2	2332	1.3	2345	1.2			1857	6.6	1918	6.5	
19 F	0519	3.9	0534	4.4	0549	4.8	0605	5.3	0020	1.3	0053	1.3	0124	1.2	**19** F
	1155	0.7	1222	0.9	1226	0.9	1238	0.9	0637	5.9	0703	6.4	0724	6.4	
	1807	3.7	1835	4.1	1841	4.6	1856	5.1	1306	1.0	1335	1.1	1405	1.0	
									1927	5.8	1955	6.3	2016	6.3	
20 SA	0000	1.2	0027	1.4	0036	1.4	0046	1.4	0117	1.4	0148	1.5	0220	1.4	**20** SA
	0625	3.8	0644	4.2	0657	4.7	0712	5.1	0744	5.7	0811	6.2	0833	6.2	
	1302	0.8	1329	1.1	1334	1.1	1344	1.1	1406	1.2	1436	1.3	1503	1.2	
	1914	3.6	1944	4.0	1950	4.5	2003	4.9	2031	5.6	2100	6.2	2120	6.2	
21 SU	0114	1.2	0147	1.4	0154	1.5	0202	1.5	0227	1.5	0300	1.6	0330	1.6	**21** SU
	0741	3.7	0800	4.1	0812	4.5	0827	4.9	0856	5.5	0925	6.1	0946	6.1	
	1415	1.0	1438	1.2	1447	1.3	1457	1.3	1518	1.4	1546	1.5	1610	1.4	
	2028	3.6	2054	4.0	2103	4.5	2116	4.9	2144	5.5	2212	6.1	2230	6.1	
22 M	0233	1.1	0302	1.3	0313	1.4	0322	1.4	0348	1.5	0419	1.6	0446	1.5	**22** M
	0856	3.7	0917	4.1	0929	4.5	0942	5.0	1012	5.6	1040	6.1	1100	6.1	
	1525	1.0	1546	1.2	1557	1.3	1610	1.3	1641	1.4	1706	1.5	1733	1.4	
	2135	3.7	2201	4.2	2211	4.6	2225	5.0	2255	5.6	2323	6.2	2342	6.2	

23 TU	0349	1.0	0414	1.2	0424	1.2	0437	1.2	0511	1.3	0540	1.4	0610	1.3	**23** TU
	1000	3.8	1029	4.2	1037	4.7	1050	5.1	1120	5.7	1149	6.3	1208	6.3	
	1621	1.0	1646	1.2	1655	1.2	1711	1.3	1746	1.3	1818	1.4	1847	1.3	
	2230	3.8	2257	4.3	2307	4.7	2322	5.2	2353	5.8					
24 W	0448	0.8	0514	1.0	0523	1.0	0540	1.0	0615	1.1	0022	6.4	0041	6.4	**24** W
	1052	3.9	1125	4.3	1131	4.8	1144	5.3	1215	5.9	0648	1.1	0716	1.0	
	1706	1.0	1732	1.2	1742	1.2	1800	1.2	1836	1.2	1244	6.5	1304	6.5	
	2315	3.9	2341	4.4	2351	4.8					1911	1.3	1939	1.2	
25 TH ○	0535	0.7	0601	0.8	0612	0.8	0007	5.3	0039	5.9	0109	6.5	0129	6.5	**25** TH ○
	1136	4.0	1209	4.4	1215	4.9	0632	0.8	0707	0.9	0741	0.9	0808	0.8	
	1744	0.9	1809	1.1	1822	1.1	1228	5.4	1301	6.0	1330	6.7	1351	6.6	
	2354	4.0					1842	1.1	1919	1.2	1954	1.3	2023	1.1	
26 F	0615	0.6	0015	4.4	0029	4.9	0045	5.4	0119	6.0	0149	6.6	0209	6.6	**26** F
	1214	4.0	0641	0.7	0654	0.7	0715	0.7	0751	0.8	0825	0.9	0853	0.8	
	1817	0.9	1244	4.4	1252	5.0	1306	5.5	1340	6.1	1411	6.7	1432	6.7	
			1843	1.1	1858	1.1	1917	1.1	1955	1.1	2029	1.2	2101	1.1	
27 SA	0030	4.1	0045	4.5	0102	5.0	0119	5.5	0154	6.1	0225	6.7	0245	6.7	**27** SA
	0650	0.5	0717	0.7	0730	0.7	0752	0.7	0828	0.8	0901	0.9	0931	0.8	
	1249	4.0	1315	4.4	1326	5.0	1342	5.5	1417	6.2	1447	6.8	1508	6.7	
	1848	0.9	1916	1.0	1930	1.0	1947	1.1	2024	1.1	2058	1.2	2133	1.1	
28 SU	0103	4.1	0116	4.6	0134	5.1	0152	5.5	0227	6.2	0257	6.8	0316	6.7	**28** SU
	0722	0.5	0749	0.7	0802	0.7	0821	0.7	0857	0.8	0928	0.8	1002	0.8	
	1323	4.1	1346	4.5	1400	5.0	1416	5.6	1451	6.2	1520	6.8	1541	6.7	
	1918	0.9	1947	1.0	1959	1.0	2013	1.0	2049	1.1	2124	1.1	2159	1.1	
29 M	0134	4.1	0150	4.6	0207	5.1	0224	5.6	0258	6.2	0328	6.8	0346	6.7	**29** M
	0752	0.5	0820	0.7	0831	0.7	0847	0.7	0923	0.7	0955	0.8	1028	0.8	
	1356	4.0	1420	4.5	1433	5.0	1449	5.5	1524	6.2	1552	6.8	1610	6.7	
	1946	0.9	2016	1.0	2028	1.0	2041	1.0	2117	1.0	2153	1.0	2226	1.0	
30 TU	0205	4.1	0224	4.6	0239	5.1	0256	5.5	0329	6.2	0358	6.8	0416	6.7	**30** TU
	0822	0.5	0849	0.7	0900	0.7	0915	0.7	0950	0.7	1023	0.7	1054	0.7	
	1428	4.0	1454	4.4	1505	4.9	1521	5.5	1555	6.1	1622	6.7	1640	6.7	
	2015	0.9	2046	1.0	2058	1.1	2111	1.0	2146	1.0	2223	1.0	2255	1.0	
31 W	0236	4.0	0256	4.5	0310	5.0	0326	5.4	0359	6.1	0427	6.7	0446	6.6	**31** W
	0852	0.6	0919	0.8	0931	0.8	0945	0.7	1019	0.8	1051	0.8	1121	0.8	
	1459	3.9	1526	4.3	1537	4.8	1552	5.3	1625	6.0	1653	6.6	1711	6.6	
	2046	1.0	2116	1.1	2129	1.1	2141	1.1	2215	1.1	2251	1.1	2322	1.1	

FEBRUARY 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
1	0307	4.0	0325	4.4	0340	4.9	0355	5.3	0428	5.9	0457	6.5	0516	6.5	**1**
	0923	0.7	0951	0.8	1002	0.9	1014	0.9	1044	0.9	1114	1.0	1144	0.9	
TH	1532	3.8	1557	4.2	1608	4.7	1624	5.2	1656	5.8	1725	6.5	1744	6.4	TH
	2120	1.1	2150	1.2	2202	1.3	2210	1.2	2240	1.3	2316	1.3	2346	1.3	
2	0340	3.8	0357	4.3	0412	4.8	0428	5.2	0458	5.8	0528	6.3	0548	6.3	**2**
	0958	0.8	1027	1.0	1035	1.0	1042	1.0	1105	1.1	1136	1.1	1205	1.1	
F	1609	3.7	1631	4.1	1645	4.5	1700	5.0	1732	5.7	1801	6.3	1820	6.2	F
☾	2200	1.1	2229	1.3	2238	1.4	2242	1.4	2308	1.4	2344	1.4			☾
3	0420	3.7	0438	4.2	0453	4.6	0508	5.0	0536	5.6	0607	6.2	0014	1.4	**3**
	1041	0.9	1110	1.1	1115	1.2	1116	1.2	1136	1.2	1207	1.3	0627	6.2	
SA	1656	3.5	1716	4.0	1731	4.4	1745	4.8	1816	5.5	1844	6.1	1235	1.2	SA
	2252	1.3	2319	1.4	2326	1.5	2328	1.5	2351	1.5			1903	6.1	
4	0514	3.5	0532	4.0	0548	4.4	0601	4.8	0629	5.4	0024	1.6	0053	1.5	**4**
	1142	1.0	1210	1.3	1213	1.3	1210	1.4	1228	1.4	0657	5.9	0715	5.9	
SU	1801	3.4	1816	3.8	1831	4.3	1845	4.7	1915	5.3	1256	1.5	1321	1.4	SU
											1941	5.9	1959	5.9	
5	0006	1.3	0029	1.6	0035	1.6	0033	1.6	0055	1.7	0123	1.8	0148	1.7	**5**
	0631	3.4	0644	3.9	0700	4.3	0715	4.6	0744	5.2	0806	5.8	0822	5.8	
M	1306	1.1	1330	1.4	1335	1.4	1335	1.5	1349	1.6	1409	1.7	1430	1.6	M
	1922	3.4	1941	3.8	1950	4.2	2002	4.6	2030	5.3	2058	5.8	2118	5.8	
6	0142	1.3	0208	1.5	0213	1.6	0212	1.7	0229	1.8	0247	1.9	0308	1.8	**6**
	0758	3.4	0816	3.9	0827	4.3	0843	4.7	0911	5.3	0941	5.8	1002	5.8	
TU	1426	1.1	1451	1.3	1500	1.4	1510	1.4	1532	1.5	1559	1.6	1625	1.6	TU
	2038	3.5	2103	4.0	2112	4.4	2124	4.8	2151	5.4	2220	6.0	2241	6.0	
7	0259	1.1	0329	1.3	0339	1.4	0349	1.4	0411	1.5	0438	1.6	0507	1.6	**7**
	0913	3.6	0934	4.1	0945	4.5	1000	5.0	1029	5.6	1100	6.2	1120	6.1	
W	1531	0.9	1559	1.1	1610	1.2	1623	1.2	1651	1.3	1717	1.4	1744	1.3	W
	2145	3.7	2206	4.2	2219	4.6	2234	5.1	2305	5.7	2334	6.3	2354	6.3	
8	0405	0.8	0436	1.0	0447	1.1	0502	1.1	0531	1.2	0556	1.3	0625	1.3	**8**
	1014	3.9	1039	4.3	1049	4.8	1104	5.3	1137	6.0	1207	6.6	1226	6.5	
TH	1628	0.8	1657	1.0	1709	1.0	1726	1.0	1800	1.1	1827	1.1	1858	1.1	TH
	2240	3.9	2259	4.4	2314	4.9	2330	5.3							
9	0503	0.6	0532	0.8	0545	0.8	0606	0.8	0004	6.0	0035	6.6	0055	6.6	**9**
	1106	4.2	1136	4.5	1143	5.1	1158	5.6	0641	0.9	0712	1.0	0743	0.9	
F	1717	0.7	1747	0.8	1800	0.9	1821	0.9	1233	6.3	1304	7.0	1323	6.9	F
●	2330	4.1	2346	4.6					1900	0.9	1934	1.0	2006	0.9	●
10	0554	0.4	0622	0.5	0002	5.1	0020	5.6	0055	6.3	0127	6.9	0147	6.9	**10**
	1155	4.3	1227	4.7	0638	0.5	0702	0.6	0741	0.6	0818	0.7	0847	0.6	
SA	1803	0.6	1832	0.7	1233	5.3	1248	5.9	1323	6.6	1355	7.3	1414	7.2	SA
					1847	0.7	1911	0.7	1951	0.7	2030	0.8	2101	0.7	
11	0016	4.3	0031	4.7	0048	5.3	0106	5.8	0141	6.5	0214	7.1	0233	7.1	**11**
	0642	0.2	0708	0.3	0726	0.3	0752	0.3	0832	0.4	0912	0.4	0939	0.3	
SU	1242	4.5	1316	4.8	1321	5.5	1336	6.1	1410	6.8	1442	7.5	1502	7.4	SU
	1846	0.6	1914	0.6	1931	0.7	1955	0.6	2038	0.6	2118	0.7	2149	0.6	
12	0101	4.4	0116	4.8	0132	5.4	0150	6.0	0225	6.7	0258	7.3	0317	7.2	**12**
	0727	0.1	0753	0.2	0811	0.2	0837	0.2	0918	0.2	0958	0.2	1025	0.1	
M	1328	4.5	1403	4.9	1407	5.5	1422	6.2	1456	6.9	1528	7.6	1547	7.5	M
	1927	0.6	1956	0.6	2012	0.6	2037	0.6	2119	0.6	2200	0.6	2231	0.5	
13	0145	4.5	0201	4.9	0216	5.5	0233	6.0	0308	6.7	0340	7.4	0358	7.3	**13**
	0810	0.1	0836	0.2	0852	0.2	0918	0.2	0959	0.2	1038	0.2	1106	0.1	
TU	1413	4.5	1449	4.8	1452	5.5	1507	6.1	1541	6.8	1611	7.5	1630	7.4	TU
	2007	0.6	2036	0.6	2052	0.7	2115	0.6	2157	0.6	2237	0.6	2309	0.5	
14	0228	4.4	0244	4.9	0258	5.5	0315	6.0	0350	6.7	0420	7.3	0439	7.3	**14**
	0852	0.2	0917	0.3	0932	0.3	0955	0.3	1035	0.3	1112	0.3	1142	0.2	
W	1459	4.3	1531	4.7	1536	5.3	1552	5.9	1626	6.6	1655	7.3	1713	7.2	W
	2048	0.7	2115	0.8	2132	0.8	2152	0.7	2232	0.7	2311	0.7	2343	0.7	
15	0312	4.3	0325	4.8	0341	5.4	0357	5.8	0432	6.5	0501	7.1	0519	7.1	**15**
	0932	0.3	0958	0.5	1010	0.5	1029	0.5	1107	0.5	1142	0.5	1213	0.4	
TH	1545	4.1	1611	4.5	1620	5.1	1636	5.6	1709	6.3	1738	6.9	1757	6.9	TH
	2131	0.8	2156	0.9	2213	0.9	2228	0.9	2305	0.9	2343	0.9			

FEBRUARY 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
16	0357	4.2	0409	4.7	0426	5.2	0441	5.6	0515	6.3	0543	6.9	0016	0.9	**16**
	1017	0.5	1041	0.7	1051	0.7	1104	0.7	1138	0.8	1210	0.8	0602	6.9	
F	1633	3.9	1654	4.3	1707	4.8	1722	5.3	1755	5.9	1823	6.6	1243	0.7	F
☽	2221	0.9	2244	1.1	2259	1.1	2309	1.1	2342	1.1			1843	6.5	☽
17	0448	4.0	0502	4.4	0519	4.9	0533	5.3	0605	5.9	0018	1.2	0051	1.1	**17**
	1110	0.8	1135	1.0	1141	1.1	1149	1.1	1218	1.1	0632	6.5	0652	6.5	
SA	1729	3.6	1751	4.0	1802	4.5	1816	4.9	1847	5.6	1248	1.2	1321	1.1	SA
	2324	1.1	2349	1.3	2358	1.3					1913	6.2	1935	6.2	
18	0552	3.7	0613	4.1	0625	4.6	0005	1.3	0033	1.4	0103	1.4	0137	1.4	**18**
	1219	1.1	1248	1.3	1250	1.4	0638	5.0	0710	5.6	0734	6.2	0756	6.2	
SU	1837	3.4	1906	3.9	1912	4.3	1255	1.4	1317	1.4	1344	1.5	1416	1.4	SU
							1923	4.7	1951	5.3	2016	5.9	2037	5.9	
19	0044	1.2	0119	1.4	0122	1.5	0127	1.5	0148	1.6	0214	1.7	0247	1.6	**19**
	0715	3.5	0738	3.9	0748	4.3	0759	4.7	0827	5.3	0853	5.9	0914	5.9	
M	1346	1.2	1410	1.5	1416	1.6	1420	1.6	1436	1.7	1504	1.8	1529	1.7	M
	2002	3.4	2027	3.8	2036	4.2	2048	4.6	2113	5.2	2137	5.8	2156	5.8	
20	0223	1.1	0248	1.4	0256	1.4	0301	1.5	0320	1.6	0348	1.7	0412	1.6	**20**
	0845	3.5	0910	4.0	0917	4.4	0927	4.7	0954	5.3	1019	5.9	1038	5.9	
TU	1511	1.2	1533	1.4	1540	1.5	1549	1.6	1615	1.7	1635	1.8	1657	1.7	TU
	2120	3.5	2143	4.0	2153	4.4	2207	4.8	2236	5.4	2304	5.9	2321	5.9	
21	0347	0.9	0412	1.1	0418	1.2	0429	1.2	0500	1.3	0524	1.4	0551	1.4	**21**
	0954	3.7	1025	4.1	1030	4.6	1042	5.0	1110	5.6	1137	6.2	1155	6.2	
W	1609	1.1	1638	1.3	1643	1.4	1656	1.4	1728	1.4	1758	1.6	1825	1.5	W
	2217	3.7	2243	4.2	2252	4.6	2307	5.1	2338	5.7					
22	0441	0.7	0510	0.9	0516	0.9	0532	0.9	0605	1.0	0006	6.3	0023	6.2	**22**
	1044	3.8	1119	4.3	1123	4.8	1136	5.2	1206	5.9	0635	1.1	0701	1.0	
TH	1652	1.0	1722	1.2	1728	1.2	1744	1.2	1819	1.2	1233	6.5	1252	6.5	TH
	2300	3.9	2328	4.3	2336	4.8	2352	5.3			1852	1.3	1918	1.2	
23	0523	0.6	0552	0.8	0600	0.8	0619	0.8	0025	5.9	0053	6.5	0111	6.5	**23**
	1123	3.9	1159	4.4	1203	4.9	1216	5.4	0653	0.8	0725	0.9	0750	0.8	
F	1726	0.9	1755	1.1	1805	1.1	1823	1.1	1249	6.1	1317	6.7	1337	6.7	F
	2337	4.0							1900	1.1	1933	1.2	2001	1.1	
24	0557	0.5	0001	4.4	0012	4.9	0028	5.4	0102	6.1	0132	6.7	0151	6.7	**24**
	1158	4.0	0625	0.7	0636	0.7	0656	0.7	0732	0.7	0804	0.8	0831	0.7	
SA	1756	0.8	1230	4.4	1236	5.0	1251	5.5	1325	6.2	1354	6.8	1415	6.8	SA
○			1825	1.0	1837	1.0	1856	1.0	1934	1.0	2008	1.1	2038	1.0	○
25	0010	4.1	0027	4.5	0043	5.0	0100	5.5	0135	6.2	0205	6.8	0225	6.8	**25**
	0627	0.4	0655	0.6	0707	0.6	0727	0.6	0804	0.7	0836	0.8	0906	0.7	
SU	1229	4.1	1255	4.5	1306	5.0	1322	5.6	1357	6.2	1427	6.9	1448	6.8	SU
	1825	0.8	1854	0.9	1907	0.9	1924	0.9	2002	1.0	2037	1.1	2109	1.0	
26	0040	4.2	0055	4.6	0112	5.2	0130	5.7	0204	6.3	0235	6.9	0255	6.8	**26**
	0655	0.4	0723	0.6	0735	0.6	0754	0.6	0831	0.6	0904	0.7	0935	0.6	
M	1300	4.1	1322	4.5	1336	5.1	1352	5.7	1427	6.3	1457	7.0	1517	6.8	M
	1853	0.7	1923	0.8	1936	0.9	1951	0.8	2028	0.9	2104	0.9	2138	0.9	
27	0110	4.2	0126	4.7	0143	5.2	0200	5.7	0234	6.3	0304	7.0	0322	6.9	**27**
	0723	0.4	0750	0.5	0803	0.6	0820	0.5	0857	0.6	0931	0.6	1003	0.6	
TU	1330	4.1	1353	4.6	1406	5.1	1422	5.7	1456	6.3	1525	7.0	1544	6.9	TU
	1921	0.7	1951	0.8	2004	0.8	2018	0.8	2055	0.8	2133	0.8	2205	0.8	
28	0140	4.2	0159	4.7	0213	5.2	0230	5.7	0303	6.3	0333	7.0	0351	6.9	**28**
	0751	0.4	0817	0.6	0830	0.6	0847	0.5	0924	0.6	0959	0.6	1030	0.6	
W	1359	4.1	1424	4.5	1435	5.1	1451	5.6	1524	6.3	1553	7.0	1611	6.9	W
	1948	0.7	2019	0.8	2032	0.9	2046	0.8	2123	0.8	2201	0.9	2233	0.8	
29	0209	4.1	0229	4.6	0242	5.1	0258	5.6	0331	6.2	0401	6.9	0420	6.9	**29**
	0818	0.5	0845	0.7	0858	0.7	0915	0.6	0950	0.7	1025	0.7	1055	0.7	
TH	1428	4.0	1453	4.4	1503	5.0	1519	5.5	1553	6.2	1622	6.8	1640	6.8	TH
	2017	0.8	2047	0.9	2100	1.0	2113	0.9	2147	0.9	2226	1.0	2258	1.0	

MARCH 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
1	0238	4.0	0254	4.5	0309	5.0	0326	5.5	0359	6.1	0430	6.7	0449	6.7	**1**
F	0844	0.6	0914	0.8	0926	0.8	0939	0.8	1010	0.8	1045	0.9	1114	0.8	F
	1458	3.9	1518	4.3	1532	4.8	1548	5.3	1621	6.0	1652	6.6	1711	6.6	
	2048	0.8	2117	1.0	2129	1.1	2136	1.0	2207	1.1	2247	1.1	2319	1.1	
2	0310	3.9	0321	4.4	0339	4.9	0356	5.3	0428	5.9	0500	6.5	0521	6.5	**2**
SA	0914	0.7	0945	0.9	0954	0.9	1000	0.9	1027	1.0	1104	1.0	1134	1.0	SA
	1533	3.8	1547	4.2	1604	4.7	1621	5.2	1653	5.8	1725	6.4	1745	6.4	
	2123	0.9	2151	1.1	2200	1.2	2202	1.1	2231	1.2	2312	1.2	2344	1.2	
3	0347	3.8	0358	4.2	0417	4.7	0433	5.1	0503	5.8	0536	6.3	0557	6.3	**3**
SU	0953	0.8	1024	1.1	1029	1.1	1031	1.1	1055	1.1	1132	1.1	1202	1.1	SU
☾	1616	3.6	1630	4.0	1647	4.5	1703	5.0	1733	5.6	1805	6.2	1825	6.2	☾
	2210	1.1	2237	1.3	2244	1.3	2244	1.3	2310	1.3	2348	1.4			
4	0437	3.6	0452	4.0	0509	4.5	0523	4.9	0551	5.5	0623	6.1	0020	1.3	**4**
M	1050	1.0	1120	1.3	1123	1.4	1122	1.3	1142	1.3	1216	1.4	0644	6.1	M
	1714	3.4	1730	3.9	1745	4.3	1759	4.7	1828	5.3	1857	5.9	1245	1.3	
	2321	1.2	2345	1.4	2350	1.5	2349	1.5					1916	5.9	
5	0548	3.4	0608	3.8	0622	4.3	0634	4.6	0010	1.5	0043	1.6	0111	1.5	**5**
TU	1220	1.2	1245	1.4	1247	1.6	1246	1.6	0702	5.3	0729	5.8	0747	5.8	TU
	1839	3.3	1856	3.7	1907	4.1	1919	4.5	1259	1.6	1324	1.8	1348	1.6	
									1946	5.2	2011	5.7	2029	5.7	
6	0106	1.2	0135	1.5	0135	1.6	0131	1.6	0146	1.7	0205	1.8	0228	1.8	**6**
W	0728	3.4	0750	3.8	0759	4.2	0813	4.6	0839	5.2	0906	5.8	0928	5.7	W
	1358	1.2	1424	1.4	1430	1.5	1439	1.5	1502	1.6	1528	1.8	1551	1.8	
	2011	3.4	2034	3.9	2043	4.3	2055	4.6	2119	5.2	2147	5.8	2209	5.8	
7	0237	1.0	0308	1.2	0317	1.3	0325	1.4	0347	1.5	0413	1.7	0440	1.6	**7**
TH	0855	3.6	0920	4.1	0928	4.5	0941	4.9	1009	5.5	1037	6.1	1057	6.1	TH
	1510	1.0	1541	1.2	1549	1.3	1602	1.3	1630	1.3	1656	1.5	1720	1.4	
	2125	3.6	2145	4.1	2158	4.6	2213	5.0	2244	5.6	2312	6.2	2331	6.2	
8	0348	0.7	0419	0.9	0430	1.0	0445	1.0	0516	1.1	0539	1.2	0607	1.2	**8**
F	0959	3.9	1029	4.4	1035	4.9	1049	5.4	1121	6.0	1150	6.6	1208	6.6	F
	1608	0.8	1640	0.9	1650	1.0	1707	1.0	1742	1.0	1810	1.1	1841	1.1	
	2222	3.9	2241	4.4	2255	4.9	2312	5.3	2345	6.0					
9	0447	0.4	0515	0.6	0529	0.6	0551	0.6	0627	0.7	0016	6.7	0035	6.6	**9**
SA	1051	4.2	1124	4.6	1129	5.2	1144	5.8	1217	6.4	0701	0.8	0731	0.8	SA
	1657	0.7	1728	0.8	1741	0.8	1803	0.8	1841	0.8	1247	7.1	1306	7.0	
	2311	4.1	2329	4.6	2343	5.2					1917	0.8	1949	0.8	
10	0537	0.2	0603	0.3	0620	0.3	0001	5.7	0035	6.3	0107	7.0	0126	7.0	**10**
SU	1138	4.4	1213	4.8	1217	5.4	0645	0.3	0725	0.4	0804	0.5	0831	0.4	SU
●	1742	0.5	1811	0.6	1827	0.7	1232	6.0	1306	6.7	1337	7.4	1356	7.3	●
	2356	4.3					1851	0.6	1933	0.6	2013	0.7	2043	0.6	
11	0622	0.1	0014	4.8	0028	5.4	0045	5.9	0119	6.6	0152	7.3	0211	7.2	**11**
M	1223	4.5	0648	0.2	0706	0.2	0733	0.1	0814	0.2	0854	0.2	0921	0.1	M
	1825	0.5	1258	4.9	1302	5.5	1317	6.2	1351	6.9	1422	7.6	1442	7.5	
			1853	0.5	1911	0.5	1936	0.5	2019	0.5	2100	0.5	2130	0.5	
12	0040	4.5	0058	4.9	0111	5.5	0128	6.1	0202	6.8	0235	7.5	0254	7.4	**12**
TU	0706	0.0	0731	0.1	0749	0.1	0815	0.1	0857	0.1	0938	0.1	1005	0.0	TU
	1307	4.5	1342	4.9	1346	5.6	1401	6.2	1435	7.0	1505	7.7	1525	7.6	
	1906	0.4	1934	0.5	1952	0.5	2017	0.5	2101	0.5	2142	0.5	2212	0.4	
13	0123	4.6	0142	5.0	0154	5.6	0210	6.2	0244	6.9	0316	7.6	0335	7.5	**13**
W	0746	0.1	0811	0.2	0828	0.2	0854	0.1	0935	0.1	1015	0.1	1044	0.0	W
	1351	4.5	1424	4.8	1429	5.5	1443	6.1	1517	6.9	1547	7.6	1606	7.5	
	1946	0.5	2014	0.5	2031	0.6	2055	0.5	2138	0.5	2218	0.5	2249	0.5	
14	0205	4.5	0225	5.0	0236	5.6	0252	6.1	0326	6.8	0357	7.5	0416	7.5	**14**
TH	0824	0.2	0849	0.3	0904	0.3	0927	0.3	1008	0.3	1046	0.3	1116	0.3	TH
	1433	4.3	1503	4.7	1510	5.3	1525	5.9	1559	6.6	1628	7.3	1647	7.2	
	2025	0.5	2053	0.6	2109	0.7	2130	0.6	2210	0.6	2249	0.7	2321	0.6	
15	0247	4.4	0306	4.8	0319	5.4	0334	5.9	0408	6.6	0437	7.3	0456	7.2	**15**
F	0900	0.4	0925	0.6	0939	0.6	0956	0.6	1034	0.6	1110	0.6	1142	0.6	F
	1516	4.1	1539	4.5	1550	5.0	1606	5.6	1639	6.3	1708	6.9	1727	6.9	
	2107	0.7	2132	0.8	2148	0.8	2202	0.8	2239	0.8	2316	0.9	2350	0.8	

MARCH 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
16	0331	4.2	0349	4.6	0403	5.2	0417	5.6	0450	6.3	0519	6.9	0539	6.9	**16**
SA	0940	0.7	1004	0.9	1015	0.9	1026	0.9	1059	0.9	1133	1.0	1207	0.9	SA
	1601	3.8	1617	4.2	1633	4.8	1648	5.2	1720	5.9	1748	6.5	1808	6.5	
	2154	0.8	2218	1.0	2231	1.0	2240	1.0	2311	1.0	2347	1.1			
17	0421	3.9	0440	4.3	0454	4.8	0508	5.3	0539	5.9	0607	6.5	0020	1.0	**17**
SU	1030	1.0	1054	1.2	1102	1.3	1107	1.2	1135	1.3	1207	1.4	0627	6.5	SU
☽	1653	3.5	1709	4.0	1724	4.4	1738	4.8	1808	5.5	1835	6.1	1240	1.3	☽
	2255	1.0	2323	1.3	2328	1.3	2332	1.3	2359	1.3			1855	6.1	
18	0525	3.6	0550	4.0	0559	4.5	0612	4.8	0643	5.5	0029	1.4	0101	1.3	**18**
M	1140	1.3	1210	1.5	1209	1.6	1212	1.6	1235	1.7	0707	6.0	0727	6.0	M
	1800	3.3	1830	3.8	1835	4.2	1846	4.5	1912	5.2	1300	1.8	1331	1.7	
											1935	5.7	1955	5.7	
19	0018	1.1	0057	1.4	0055	1.5	0057	1.5	0115	1.6	0137	1.7	0207	1.6	**19**
TU	0652	3.4	0720	3.8	0725	4.2	0735	4.6	0801	5.2	0825	5.8	0845	5.7	TU
	1316	1.4	1344	1.7	1345	1.8	1346	1.8	1402	1.9	1426	2.1	1450	2.0	
	1929	3.2	1957	3.7	2005	4.1	2016	4.4	2039	5.0	2100	5.5	2118	5.5	
20	0207	1.0	0230	1.3	0236	1.4	0239	1.5	0254	1.6	0319	1.8	0340	1.6	**20**
W	0828	3.4	0854	3.9	0859	4.3	0907	4.7	0931	5.3	0953	5.8	1011	5.8	W
	1447	1.3	1512	1.6	1517	1.7	1523	1.7	1545	1.8	1606	2.0	1623	1.9	
	2055	3.4	2114	3.9	2125	4.3	2140	4.7	2208	5.3	2234	5.8	2249	5.7	
21	0329	0.8	0352	1.1	0358	1.1	0410	1.2	0437	1.3	0455	1.4	0515	1.4	**21**
TH	0937	3.7	1006	4.1	1011	4.6	1021	5.0	1050	5.6	1114	6.2	1131	6.1	TH
	1546	1.1	1615	1.3	1620	1.4	1631	1.4	1702	1.5	1728	1.6	1752	1.5	
	2152	3.6	2215	4.1	2224	4.6	2240	5.0	2312	5.6	2338	6.2	2355	6.1	
22	0420	0.6	0447	0.8	0454	0.9	0509	0.9	0540	1.0	0606	1.1	0632	1.0	**22**
F	1023	3.8	1056	4.3	1100	4.8	1113	5.3	1144	5.9	1210	6.5	1228	6.5	F
	1626	1.0	1657	1.2	1703	1.2	1717	1.2	1751	1.2	1821	1.3	1846	1.2	
	2235	3.8	2259	4.3	2309	4.8	2325	5.3	2358	5.9					
23	0458	0.5	0525	0.7	0534	0.8	0550	0.7	0623	0.8	0026	6.5	0043	6.5	**23**
SA	1100	4.0	1134	4.4	1138	4.9	1152	5.4	1225	6.1	0653	0.8	0719	0.8	SA
	1658	0.9	1730	1.0	1738	1.1	1754	1.0	1830	1.1	1252	6.8	1311	6.7	
	2311	4.0	2333	4.5	2344	5.0					1902	1.1	1929	1.0	
24	0528	0.5	0556	0.6	0606	0.7	0001	5.4	0035	6.1	0104	6.7	0122	6.7	**24**
SU	1132	4.0	1203	4.5	1210	5.0	0624	0.6	0658	0.7	0730	0.7	0757	0.7	SU
	1728	0.8	1759	0.9	1810	1.0	1225	5.5	1259	6.2	1328	6.9	1348	6.8	
	2342	4.1					1826	0.9	1904	1.0	1937	1.0	2006	1.0	
25	0555	0.4	0000	4.6	0015	5.1	0032	5.6	0107	6.2	0137	6.9	0156	6.8	**25**
M	1203	4.1	0623	0.6	0634	0.6	0653	0.6	0729	0.6	0802	0.7	0831	0.6	M
○	1757	0.7	1226	4.5	1238	5.1	1254	5.6	1329	6.3	1359	6.9	1419	6.9	○
			1827	0.8	1839	0.9	1856	0.8	1934	0.9	2009	1.0	2039	0.9	
26	0012	4.2	0029	4.7	0045	5.2	0102	5.7	0136	6.3	0207	7.0	0227	6.9	**26**
TU	0623	0.4	0650	0.6	0703	0.6	0721	0.5	0758	0.6	0832	0.6	0903	0.6	TU
	1232	4.2	1252	4.6	1307	5.2	1323	5.7	1357	6.4	1427	7.0	1447	6.9	
	1825	0.7	1855	0.8	1908	0.8	1924	0.8	2002	0.8	2038	0.9	2110	0.8	
27	0042	4.2	0100	4.7	0115	5.3	0132	5.8	0205	6.4	0236	7.0	0255	7.0	**27**
W	0651	0.4	0717	0.5	0731	0.6	0748	0.5	0826	0.6	0901	0.6	0933	0.6	W
	1301	4.2	1322	4.6	1336	5.2	1352	5.8	1425	6.4	1454	7.1	1513	7.0	
	1853	0.6	1924	0.7	1937	0.8	1952	0.7	2030	0.8	2108	0.8	2141	0.8	
28	0112	4.2	0132	4.7	0146	5.2	0202	5.7	0235	6.4	0305	7.0	0323	7.0	**28**
TH	0718	0.4	0745	0.6	0759	0.6	0816	0.6	0854	0.6	0930	0.6	1001	0.6	TH
	1329	4.2	1353	4.6	1404	5.2	1420	5.7	1454	6.4	1523	7.0	1541	7.0	
	1922	0.7	1953	0.8	2006	0.8	2021	0.8	2057	0.8	2137	0.8	2209	0.8	
29	0142	4.2	0202	4.6	0215	5.2	0232	5.6	0305	6.3	0336	7.0	0354	6.9	**29**
F	0744	0.5	0814	0.7	0827	0.7	0843	0.7	0918	0.7	0955	0.7	1026	0.7	F
	1359	4.1	1421	4.5	1433	5.0	1449	5.6	1523	6.3	1553	6.9	1612	6.9	
	1952	0.7	2023	0.8	2035	0.9	2047	0.8	2122	0.9	2202	0.9	2234	0.9	
30	0213	4.1	0229	4.5	0244	5.0	0301	5.5	0335	6.1	0407	6.8	0426	6.8	**30**
SA	0811	0.6	0843	0.8	0854	0.8	0907	0.8	0940	0.8	1016	0.9	1047	0.8	SA
	1431	3.9	1446	4.4	1501	4.9	1519	5.4	1553	6.1	1624	6.7	1644	6.7	
	2023	0.7	2053	0.9	2104	1.0	2112	0.9	2144	1.0	2225	1.1	2256	1.0	
31	0247	4.0	0255	4.4	0316	4.9	0333	5.3	0407	6.0	0439	6.6	0500	6.5	**31**
SU	0843	0.7	0915	0.9	0924	1.0	0932	0.9	1002	1.0	1040	1.0	1110	1.0	SU
	1506	3.8	1515	4.2	1535	4.8	1552	5.2	1625	5.9	1657	6.4	1718	6.4	
	2100	0.8	2129	1.0	2138	1.1	2140	1.1	2211	1.1	2252	1.2	2324	1.1	

APRIL 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
1	0327	3.8	0334	4.2	0355	4.7	0412	5.2	0444	5.8	0517	6.4	0538	6.3	**1**
	0924	0.9	0956	1.1	1003	1.2	1006	1.1	1033	1.2	1111	1.2	1142	1.1	
M	1549	3.6	1600	4.1	1618	4.6	1634	5.0	1705	5.6	1736	6.2	1758	6.2	M
	2149	0.9	2217	1.2	2223	1.2	2224	1.2	2251	1.2	2329	1.3			
2	0419	3.6	0433	4.0	0450	4.5	0504	4.9	0534	5.6	0605	6.1	0001	1.2	**2**
	1023	1.1	1054	1.3	1059	1.4	1101	1.4	1121	1.4	1156	1.5	0627	6.1	
TU	1647	3.4	1703	3.9	1718	4.3	1731	4.7	1800	5.4	1829	5.9	1225	1.4	TU
☾	2301	1.1	2328	1.3	2332	1.4	2331	1.4	2350	1.5			1850	5.9	☾
3	0530	3.5	0556	3.9	0606	4.3	0617	4.7	0646	5.3	0023	1.5	0052	1.4	**3**
	1156	1.3	1219	1.5	1224	1.6	1230	1.6	1244	1.7	0713	5.9	0732	5.8	
W	1811	3.3	1831	3.8	1842	4.2	1853	4.5	1919	5.2	1307	1.9	1331	1.7	W
											1945	5.7	2002	5.7	
4	0047	1.1	0118	1.3	0117	1.4	0117	1.5	0132	1.6	0148	1.7	0211	1.7	**4**
	0710	3.5	0736	3.9	0743	4.3	0755	4.7	0822	5.3	0849	5.9	0910	5.8	
TH	1334	1.2	1402	1.4	1406	1.6	1416	1.6	1441	1.7	1509	1.8	1531	1.8	TH
	1946	3.4	2007	3.9	2018	4.3	2031	4.6	2055	5.3	2123	5.8	2143	5.7	
5	0217	0.8	0248	1.1	0256	1.2	0306	1.2	0327	1.4	0355	1.5	0419	1.4	**5**
	0837	3.7	0903	4.2	0910	4.6	0922	5.1	0950	5.7	1017	6.3	1036	6.2	
F	1445	1.0	1518	1.2	1525	1.3	1537	1.3	1606	1.3	1634	1.4	1657	1.4	F
	2100	3.6	2119	4.2	2133	4.6	2148	5.0	2218	5.7	2247	6.2	2305	6.2	
6	0327	0.6	0356	0.7	0408	0.8	0425	0.8	0455	0.9	0520	1.0	0546	1.0	**6**
	0939	4.0	1010	4.5	1015	5.0	1029	5.5	1101	6.2	1129	6.8	1146	6.7	
SA	1542	0.8	1615	0.9	1626	1.0	1642	0.9	1716	1.0	1746	1.0	1815	1.0	SA
	2157	3.9	2216	4.4	2230	5.0	2247	5.4	2320	6.1	2350	6.7			
7	0424	0.3	0451	0.5	0506	0.5	0528	0.5	0605	0.5	0639	0.7	0009	6.7	**7**
	1031	4.3	1103	4.7	1109	5.3	1123	5.8	1156	6.5	1225	7.2	0709	0.6	
SU	1632	0.6	1703	0.7	1717	0.8	1737	0.7	1815	0.7	1851	0.8	1244	7.1	SU
	2247	4.2	2304	4.7	2319	5.2	2336	5.7					1923	0.8	
8	0513	0.1	0539	0.3	0556	0.3	0620	0.3	0010	6.4	0041	7.1	0100	7.0	**8**
	1117	4.4	1150	4.8	1155	5.4	1210	6.0	0700	0.3	0739	0.4	0807	0.3	
M	1717	0.5	1746	0.6	1803	0.6	1826	0.6	1244	6.8	1314	7.5	1333	7.4	M
●	2332	4.4	2350	4.8					1908	0.6	1947	0.6	2018	0.6	●
9	0558	0.1	0622	0.2	0003	5.4	0020	6.0	0054	6.7	0126	7.3	0146	7.3	**9**
	1200	4.5	1234	4.9	0641	0.2	0707	0.2	0748	0.2	0828	0.2	0856	0.1	
TU	1801	0.4	1829	0.5	1239	5.5	1253	6.1	1327	6.9	1358	7.6	1418	7.5	TU
					1847	0.6	1912	0.5	1955	0.5	2036	0.6	2106	0.5	
10	0015	4.5	0035	5.0	0047	5.6	0103	6.1	0137	6.8	0209	7.5	0229	7.5	**10**
	0640	0.1	0704	0.2	0722	0.2	0749	0.2	0830	0.2	0911	0.2	0939	0.1	
W	1243	4.5	1316	4.9	1321	5.5	1336	6.1	1409	6.9	1440	7.6	1500	7.5	W
	1844	0.4	1911	0.5	1930	0.5	1955	0.5	2038	0.5	2119	0.5	2149	0.4	
11	0059	4.5	0121	5.0	0131	5.6	0146	6.2	0220	6.9	0251	7.6	0311	7.5	**11**
	0719	0.2	0743	0.3	0801	0.3	0826	0.3	0907	0.3	0947	0.3	1016	0.3	
TH	1326	4.4	1356	4.8	1403	5.4	1417	6.0	1451	6.8	1521	7.5	1540	7.4	TH
	1925	0.4	1953	0.5	2011	0.6	2035	0.5	2117	0.5	2156	0.6	2226	0.5	
12	0141	4.5	0206	4.9	0215	5.5	0229	6.1	0303	6.8	0334	7.5	0352	7.4	**12**
	0756	0.4	0821	0.5	0836	0.6	0858	0.5	0938	0.6	1016	0.6	1047	0.5	
F	1408	4.3	1434	4.7	1443	5.2	1458	5.8	1531	6.5	1601	7.2	1620	7.1	F
	2006	0.5	2034	0.6	2050	0.7	2110	0.6	2150	0.7	2227	0.7	2258	0.6	
13	0224	4.3	0250	4.8	0259	5.3	0313	5.9	0346	6.6	0416	7.2	0435	7.2	**13**
	0831	0.6	0857	0.8	0910	0.8	0925	0.8	1002	0.8	1037	0.9	1111	0.8	
SA	1449	4.0	1509	4.5	1522	5.0	1538	5.5	1611	6.2	1640	6.8	1659	6.8	SA
	2047	0.6	2115	0.8	2128	0.8	2142	0.8	2217	0.8	2253	0.9	2325	0.8	
14	0309	4.1	0334	4.5	0345	5.1	0358	5.5	0430	6.2	0459	6.8	0518	6.8	**14**
	0908	0.9	0934	1.1	0945	1.1	0954	1.1	1026	1.1	1102	1.2	1135	1.1	
SU	1533	3.8	1548	4.3	1604	4.7	1619	5.2	1650	5.8	1719	6.4	1738	6.4	SU
	2133	0.7	2202	1.0	2211	1.0	2218	1.0	2247	1.1	2323	1.1	2354	1.0	
15	0359	3.8	0423	4.2	0435	4.7	0448	5.2	0520	5.8	0546	6.4	0606	6.3	**15**
	0956	1.2	1022	1.4	1029	1.5	1034	1.4	1103	1.5	1137	1.5	1208	1.4	
M	1622	3.5	1637	4.0	1653	4.4	1707	4.8	1736	5.4	1803	6.0	1822	6.0	M
☽	2232	0.9	2306	1.2	2305	1.3	2308	1.2	2333	1.3					☽

APRIL 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
16	0501	3.5	0528	4.0	0537	4.4	0550	4.8	0620	5.4	0004	1.4	0033	1.3	**16**
TU	1103	1.4	1133	1.7	1132	1.8	1135	1.8	1159	1.8	0644	6.0	0703	5.9	TU
	1726	3.3	1751	3.8	1759	4.2	1812	4.5	1838	5.1	1227	1.9	1256	1.8	
	2352	1.0									1901	5.6	1918	5.6	
17	0622	3.4	0031	1.3	0027	1.4	0027	1.4	0044	1.5	0106	1.6	0133	1.5	**17**
W	1237	1.5	0654	3.8	0656	4.2	0706	4.6	0732	5.2	0757	5.7	0816	5.7	W
	1844	3.2	1309	1.8	1305	1.9	1306	1.9	1323	2.0	1344	2.2	1409	2.0	
			1919	3.7	1925	4.1	1936	4.4	1958	5.0	2022	5.5	2038	5.5	
18	0128	1.0	0156	1.2	0201	1.4	0204	1.4	0220	1.6	0244	1.7	0306	1.6	**18**
TH	0752	3.4	0817	3.9	0823	4.3	0830	4.6	0853	5.2	0916	5.8	0933	5.7	TH
	1402	1.4	1433	1.6	1437	1.8	1440	1.8	1459	1.9	1524	2.1	1543	2.0	
	2009	3.3	2030	3.9	2043	4.3	2056	4.6	2122	5.2	2146	5.7	2202	5.6	
19	0248	0.8	0308	1.1	0316	1.2	0324	1.2	0346	1.3	0407	1.4	0426	1.4	**19**
F	0901	3.6	0926	4.1	0933	4.5	0942	4.9	1011	5.5	1032	6.1	1049	6.0	F
	1504	1.2	1534	1.4	1540	1.6	1548	1.5	1615	1.6	1641	1.7	1702	1.6	
	2112	3.5	2129	4.1	2142	4.5	2157	4.9	2229	5.5	2255	6.1	2311	6.0	
20	0341	0.7	0402	0.9	0411	1.0	0422	1.0	0450	1.0	0512	1.1	0533	1.1	**20**
SA	0949	3.8	1016	4.3	1023	4.8	1035	5.2	1106	5.8	1131	6.4	1149	6.4	SA
	1548	1.1	1619	1.2	1626	1.3	1636	1.3	1708	1.3	1736	1.4	1801	1.3	
	2158	3.8	2216	4.3	2229	4.8	2245	5.2	2318	5.8	2346	6.4			
21	0418	0.6	0443	0.8	0452	0.8	0505	0.8	0536	0.8	0603	0.9	0003	6.4	**21**
SU	1026	3.9	1054	4.4	1102	4.9	1116	5.4	1149	6.1	1216	6.7	0627	0.8	SU
	1623	0.9	1655	1.1	1703	1.2	1715	1.1	1749	1.1	1821	1.2	1235	6.6	
	2235	3.9	2254	4.4	2308	4.9	2324	5.4	2358	6.0			1847	1.1	
22	0449	0.5	0516	0.7	0525	0.8	0540	0.7	0614	0.7	0027	6.7	0046	6.6	**22**
M	1059	4.0	1124	4.5	1135	5.0	1150	5.5	1223	6.2	0645	0.8	0712	0.7	M
	1655	0.8	1726	0.9	1736	1.0	1751	1.0	1827	1.0	1253	6.8	1312	6.8	
	2308	4.0	2327	4.5	2342	5.1	2359	5.5			1900	1.1	1927	1.0	

23	0519	0.5	0546	0.7	0557	0.7	0614	0.7	0032	6.2	0103	6.8	0122	6.8	**23**
TU	1130	4.1	1152	4.5	1205	5.1	1221	5.6	0650	0.7	0723	0.7	0751	0.7	TU
	1726	0.7	1757	0.9	1809	0.9	1824	0.9	1254	6.3	1325	6.9	1345	6.8	
○	2340	4.1	2358	4.6					1901	0.9	1936	1.0	2005	0.9	○
24	0549	0.5	0615	0.6	0014	5.2	0031	5.6	0104	6.3	0135	6.9	0155	6.9	**24**
W	1200	4.2	1220	4.6	0628	0.7	0646	0.6	0723	0.7	0757	0.7	0827	0.7	W
	1757	0.7	1828	0.8	1235	5.2	1251	5.7	1324	6.4	1354	7.0	1414	6.9	
					1841	0.9	1856	0.8	1933	0.9	2010	0.9	2041	0.9	
25	0012	4.2	0031	4.6	0046	5.2	0103	5.7	0136	6.4	0206	7.0	0226	6.9	**25**
TH	0618	0.5	0645	0.6	0659	0.7	0717	0.6	0753	0.7	0829	0.7	0901	0.7	TH
	1231	4.2	1251	4.6	1305	5.2	1321	5.7	1354	6.4	1424	7.0	1443	7.0	
	1828	0.6	1859	0.8	1913	0.8	1928	0.8	2004	0.9	2042	0.9	2115	0.8	
26	0045	4.2	0105	4.6	0119	5.2	0136	5.7	0209	6.4	0239	7.0	0258	7.0	**26**
F	0646	0.5	0716	0.7	0729	0.7	0746	0.7	0821	0.7	0858	0.7	0932	0.7	F
	1302	4.2	1323	4.6	1337	5.2	1353	5.7	1426	6.4	1456	7.0	1515	7.0	
	1900	0.6	1932	0.8	1945	0.8	1959	0.8	2034	0.9	2113	0.9	2147	0.8	
27	0119	4.1	0140	4.6	0153	5.1	0209	5.6	0242	6.3	0313	6.9	0332	6.9	**27**
SA	0715	0.6	0747	0.8	0759	0.8	0814	0.7	0849	0.8	0926	0.8	1000	0.8	SA
	1336	4.1	1355	4.5	1408	5.0	1425	5.6	1459	6.2	1530	6.8	1549	6.8	
	1933	0.7	2005	0.8	2017	0.9	2029	0.9	2102	0.9	2142	1.0	2216	0.9	
28	0155	4.1	0214	4.5	0227	5.0	0243	5.5	0317	6.2	0349	6.8	0408	6.7	**28**
SU	0747	0.7	0820	0.9	0831	0.9	0844	0.9	0917	0.9	0955	0.9	1026	0.9	SU
	1411	4.0	1426	4.4	1441	4.9	1458	5.4	1532	6.0	1604	6.6	1624	6.6	
	2009	0.7	2041	0.9	2051	1.0	2101	0.9	2132	1.0	2211	1.0	2242	1.0	
29	0233	4.0	0250	4.3	0305	4.9	0321	5.3	0354	6.0	0426	6.6	0446	6.5	**29**
M	0824	0.8	0858	1.0	0907	1.1	0918	1.0	0950	1.1	1027	1.1	1056	1.0	M
	1450	3.8	1502	4.3	1518	4.8	1535	5.2	1608	5.8	1639	6.4	1700	6.4	
	2051	0.8	2123	1.0	2130	1.1	2137	1.0	2206	1.1	2244	1.1	2314	1.1	
30	0318	3.8	0336	4.2	0350	4.7	0405	5.2	0437	5.8	0509	6.4	0530	6.3	**30**
TU	0911	1.0	0944	1.2	0952	1.3	1002	1.2	1029	1.3	1105	1.3	1134	1.2	TU
	1536	3.6	1550	4.1	1605	4.6	1620	5.0	1651	5.6	1722	6.2	1743	6.2	
	2144	0.8	2216	1.1	2222	1.2	2225	1.1	2250	1.2	2326	1.3	2355	1.2	

MAY 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
1	0413	3.7	0438	4.1	0449	4.6	0501	5.0	0531	5.6	0602	6.2	0622	6.1	**1**
W	1015	1.2	1045	1.4	1053	1.5	1102	1.4	1124	1.5	1155	1.6	1222	1.5	W
☾	1636	3.5	1654	4.0	1707	4.4	1720	4.8	1748	5.4	1817	6.0	1837	5.9	☾
	2300	0.9	2330	1.2	2333	1.3	2334	1.3	2352	1.4					
2	0525	3.6	0555	4.0	0604	4.5	0615	4.9	0645	5.5	0022	1.4	0048	1.3	**2**
TH	1141	1.3	1204	1.5	1212	1.6	1223	1.6	1250	1.7	0711	6.0	0731	6.0	TH
	1755	3.4	1814	3.9	1827	4.3	1839	4.7	1906	5.3	1312	1.8	1334	1.7	
											1931	5.8	1949	5.8	
3	0035	0.8	0106	1.1	0108	1.2	0114	1.3	0135	1.4	0151	1.5	0217	1.4	**3**
F	0654	3.6	0722	4.1	0728	4.5	0740	5.0	0809	5.6	0837	6.1	0857	6.0	F
	1307	1.2	1336	1.4	1340	1.5	1351	1.5	1420	1.6	1449	1.7	1512	1.6	
	1919	3.5	1939	4.0	1951	4.5	2006	4.8	2033	5.5	2101	6.0	2120	5.9	
4	0155	0.7	0225	0.9	0234	1.0	0244	1.0	0307	1.1	0335	1.3	0359	1.2	**4**
SA	0811	3.8	0839	4.3	0846	4.8	0858	5.2	0927	5.9	0955	6.5	1013	6.4	SA
	1415	1.0	1449	1.2	1455	1.3	1507	1.2	1536	1.3	1607	1.4	1630	1.3	
	2030	3.7	2048	4.3	2102	4.7	2118	5.1	2149	5.8	2218	6.3	2237	6.3	
5	0301	0.5	0329	0.7	0342	0.7	0358	0.7	0428	0.8	0453	0.9	0517	0.9	**5**
SU	0913	4.1	0943	4.5	0950	5.0	1003	5.5	1036	6.2	1103	6.8	1120	6.8	SU
	1513	0.8	1546	1.0	1557	1.1	1611	1.0	1645	1.0	1716	1.1	1743	1.0	
	2129	4.0	2145	4.5	2201	5.0	2218	5.4	2251	6.1	2321	6.7	2340	6.7	
6	0359	0.3	0424	0.5	0439	0.6	0500	0.5	0536	0.6	0609	0.7	0638	0.6	**6**
M	1006	4.2	1036	4.7	1044	5.2	1058	5.8	1132	6.5	1200	7.1	1219	7.0	M
	1605	0.7	1635	0.8	1650	0.9	1707	0.8	1746	0.8	1821	0.9	1852	0.8	
	2220	4.2	2237	4.7	2253	5.2	2309	5.7	2343	6.4					
7	0448	0.3	0512	0.4	0529	0.5	0552	0.4	0631	0.5	0014	7.0	0034	7.0	**7**
TU	1053	4.3	1124	4.7	1132	5.3	1146	5.9	1219	6.6	0709	0.5	0738	0.4	TU
	1653	0.6	1721	0.7	1738	0.7	1800	0.7	1841	0.7	1249	7.3	1309	7.2	
	2307	4.3	2325	4.8	2340	5.4	2355	5.9			1919	0.7	1950	0.7	
8	0533	0.3	0556	0.4	0614	0.4	0639	0.4	0029	6.6	0101	7.2	0121	7.2	**8**
W	1137	4.4	1207	4.8	1215	5.4	1229	6.0	0719	0.4	0759	0.5	0827	0.4	W
●	1740	0.5	1806	0.6	1825	0.6	1849	0.6	1303	6.7	1333	7.3	1354	7.3	●
	2352	4.4							1931	0.6	2010	0.7	2040	0.6	
9	0615	0.3	0014	4.9	0025	5.5	0040	6.0	0114	6.7	0146	7.3	0206	7.3	**9**
TH	1221	4.4	0638	0.5	0656	0.5	0721	0.4	0802	0.5	0842	0.5	0910	0.4	TH
	1825	0.5	1249	4.8	1258	5.4	1312	5.9	1345	6.7	1416	7.3	1436	7.3	
			1852	0.6	1911	0.6	1935	0.5	2017	0.6	2056	0.6	2125	0.5	
10	0037	4.5	0103	4.9	0111	5.5	0125	6.0	0158	6.7	0230	7.4	0249	7.3	**10**
F	0655	0.5	0718	0.6	0735	0.6	0759	0.6	0840	0.7	0919	0.7	0948	0.6	F
	1303	4.3	1329	4.7	1339	5.3	1353	5.8	1427	6.6	1457	7.2	1517	7.2	
	1910	0.5	1938	0.6	1954	0.6	2018	0.6	2058	0.6	2136	0.7	2205	0.6	
11	0121	4.4	0150	4.8	0157	5.4	0210	5.9	0244	6.7	0314	7.3	0333	7.2	**11**
SA	0732	0.7	0757	0.8	0812	0.8	0832	0.8	0911	0.9	0948	0.9	1020	0.8	SA
	1345	4.2	1408	4.6	1420	5.2	1435	5.7	1508	6.4	1538	7.0	1556	7.0	
	1953	0.5	2022	0.7	2036	0.7	2056	0.7	2134	0.8	2209	0.8	2239	0.7	
12	0205	4.2	0235	4.7	0243	5.2	0256	5.7	0329	6.4	0358	7.1	0417	7.0	**12**
SU	0807	0.9	0835	1.0	0847	1.1	0901	1.0	0936	1.1	1010	1.1	1045	1.1	SU
	1427	4.0	1445	4.5	1500	5.0	1515	5.4	1548	6.1	1617	6.7	1635	6.6	
	2035	0.6	2106	0.8	2116	0.9	2129	0.8	2203	0.9	2236	0.9	2307	0.9	
13	0251	4.0	0319	4.4	0329	5.0	0343	5.5	0415	6.1	0443	6.7	0501	6.6	**13**
M	0844	1.1	0913	1.2	0923	1.3	0931	1.3	1003	1.3	1038	1.3	1111	1.3	M
	1509	3.8	1525	4.3	1541	4.7	1557	5.2	1628	5.8	1656	6.3	1714	6.3	
	2120	0.7	2153	0.9	2157	1.0	2204	1.0	2232	1.1	2306	1.1	2336	1.0	
14	0340	3.8	0406	4.2	0418	4.7	0431	5.2	0503	5.8	0529	6.3	0547	6.3	**14**
TU	0928	1.3	0958	1.4	1005	1.5	1010	1.5	1040	1.5	1114	1.6	1145	1.5	TU
	1556	3.6	1611	4.1	1628	4.5	1643	4.9	1711	5.5	1738	6.0	1755	6.0	
	2213	0.8	2249	1.1	2247	1.2	2249	1.1	2314	1.2	2345	1.3			
15	0437	3.6	0503	4.0	0512	4.5	0526	4.9	0557	5.5	0621	6.0	0013	1.2	**15**
W	1026	1.4	1055	1.6	1058	1.8	1102	1.7	1130	1.8	1200	1.8	0640	6.0	W
☽	1653	3.5	1710	3.9	1724	4.3	1738	4.7	1806	5.3	1829	5.7	1228	1.7	☽
	2320	0.9	2357	1.2	2353	1.3	2354	1.3					1845	5.7	

MAY 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
16 TH	0544	3.4	0614	3.9	0617	4.3	0630	4.7	0014	1.4	0040	1.5	0105	1.4	**16** TH
	1145	1.5	1214	1.7	1209	1.9	1213	1.9	0658	5.3	0723	5.8	0742	5.8	
	1757	3.4	1830	3.8	1834	4.2	1848	4.5	1236	2.0	1301	2.0	1325	1.9	
									1913	5.1	1938	5.6	1954	5.6	
17 F	0036	0.9	0108	1.2	0110	1.3	0115	1.3	0134	1.4	0157	1.6	0221	1.4	**17** F
	0655	3.4	0727	3.9	0730	4.3	0740	4.7	0803	5.3	0830	5.8	0848	5.7	
	1305	1.5	1338	1.7	1336	1.9	1338	1.9	1357	2.0	1419	2.1	1442	2.0	
	1904	3.4	1939	3.9	1947	4.3	2000	4.6	2024	5.2	2052	5.7	2110	5.6	
18 SA	0143	0.9	0212	1.1	0218	1.2	0225	1.2	0248	1.3	0315	1.4	0337	1.3	**18** SA
	0803	3.5	0829	4.0	0838	4.4	0847	4.8	0910	5.4	0935	6.0	0953	5.9	
	1407	1.3	1441	1.5	1445	1.7	1450	1.7	1513	1.8	1540	1.9	1604	1.8	
	2009	3.5	2037	4.0	2049	4.4	2103	4.8	2130	5.4	2158	5.9	2216	5.9	
19 SU	0239	0.8	0306	1.0	0314	1.1	0323	1.1	0349	1.1	0416	1.2	0438	1.1	**19** SU
	0859	3.7	0921	4.1	0932	4.6	0943	5.0	1011	5.7	1036	6.2	1053	6.1	
	1458	1.2	1531	1.4	1537	1.5	1545	1.4	1612	1.5	1642	1.6	1706	1.5	
	2105	3.6	2127	4.2	2141	4.6	2156	5.0	2227	5.7	2255	6.2	2313	6.2	
20 M	0325	0.7	0351	0.9	0400	1.0	0411	0.9	0441	1.0	0510	1.1	0532	1.0	**20** M
	0942	3.8	1004	4.3	1016	4.8	1029	5.2	1100	5.9	1127	6.4	1145	6.4	
	1541	1.0	1613	1.2	1621	1.3	1631	1.3	1701	1.3	1733	1.4	1758	1.3	
	2150	3.8	2210	4.3	2226	4.8	2241	5.2	2314	5.9	2343	6.5			
21 TU	0405	0.7	0431	0.8	0441	0.9	0455	0.8	0527	0.9	0557	0.9	0002	6.4	**21** TU
	1020	3.9	1041	4.4	1055	4.9	1109	5.4	1141	6.0	1210	6.6	0622	0.9	
	1619	0.9	1651	1.1	1700	1.2	1713	1.1	1746	1.2	1818	1.2	1229	6.6	
	2230	3.9	2250	4.4	2305	4.9	2321	5.4	2355	6.1			1845	1.1	
22 W	0442	0.6	0508	0.8	0520	0.9	0536	0.8	0610	0.9	0025	6.7	0044	6.6	**22** W
	1055	4.0	1116	4.5	1130	5.0	1145	5.5	1218	6.2	0641	0.9	0708	0.8	
	1656	0.8	1727	1.0	1738	1.1	1753	1.0	1827	1.1	1247	6.8	1307	6.7	
	2308	4.0	2327	4.5	2343	5.0	2359	5.5			1901	1.1	1930	1.0	
23 TH ○	0517	0.6	0543	0.8	0556	0.8	0613	0.8	0033	6.2	0103	6.8	0123	6.7	**23** TH ○
	1129	4.1	1149	4.5	1204	5.1	1219	5.6	0648	0.9	0722	0.9	0751	0.8	
	1732	0.8	1803	0.9	1816	1.0	1832	0.9	1253	6.3	1323	6.9	1343	6.8	
	2345	4.1							1907	1.0	1942	1.1	2012	1.0	
24 F	0550	0.7	0004	4.5	0020	5.1	0036	5.6	0110	6.3	0140	6.8	0200	6.8	**24** F
	1205	4.1	0618	0.8	0631	0.9	0648	0.8	0723	0.9	0758	0.9	0831	0.8	
	1809	0.7	1223	4.6	1239	5.1	1255	5.6	1329	6.3	1359	6.9	1419	6.9	
			1840	0.8	1853	0.9	1909	0.9	1944	1.0	2020	1.0	2054	0.9	
25 SA	0023	4.1	0042	4.5	0058	5.1	0113	5.6	0147	6.3	0218	6.9	0237	6.8	**25** SA
	0623	0.7	0652	0.8	0706	0.9	0721	0.8	0755	0.9	0832	0.9	0908	0.8	
	1242	4.1	1259	4.6	1315	5.1	1332	5.6	1406	6.3	1436	6.9	1456	6.8	
	1846	0.7	1918	0.8	1930	0.9	1946	0.9	2020	1.0	2057	1.0	2133	0.9	
26 SU	0102	4.1	0124	4.5	0137	5.1	0153	5.6	0226	6.3	0258	6.9	0317	6.8	**26** SU
	0657	0.7	0729	0.8	0741	0.9	0755	0.8	0829	0.9	0907	0.9	0943	0.9	
	1320	4.1	1337	4.5	1353	5.1	1410	5.5	1443	6.2	1515	6.8	1534	6.8	
	1925	0.7	1958	0.8	2009	0.9	2023	0.9	2055	0.9	2132	1.0	2209	0.9	
27 M	0143	4.1	0208	4.5	0219	5.0	0234	5.5	0307	6.2	0338	6.8	0358	6.7	**27** M
	0735	0.8	0808	0.9	0819	1.0	0833	0.9	0906	1.0	0944	1.0	1018	0.9	
	1401	4.0	1416	4.5	1432	5.0	1449	5.4	1522	6.1	1554	6.6	1613	6.6	
	2007	0.7	2040	0.8	2050	0.9	2103	0.9	2133	1.0	2208	1.0	2243	0.9	
28 TU	0226	4.0	0254	4.4	0304	5.0	0318	5.4	0350	6.1	0422	6.7	0441	6.6	**28** TU
	0818	0.9	0851	1.0	0902	1.1	0916	1.0	0949	1.1	1024	1.1	1055	1.1	
	1444	3.9	1459	4.4	1514	4.8	1531	5.3	1603	5.9	1634	6.4	1654	6.4	
	2055	0.7	2128	0.9	2136	0.9	2147	0.9	2215	1.0	2248	1.1	2319	1.0	
29 W	0315	3.9	0345	4.3	0353	4.8	0407	5.3	0439	6.0	0509	6.5	0528	6.5	**29** W
	0908	1.0	0941	1.2	0951	1.3	1005	1.2	1036	1.3	1109	1.3	1138	1.2	
	1533	3.8	1548	4.3	1603	4.7	1618	5.1	1649	5.8	1719	6.3	1739	6.3	
	2152	0.7	2224	0.9	2231	1.0	2238	1.0	2305	1.1	2334	1.1			
30 TH ☾	0411	3.8	0442	4.2	0451	4.7	0504	5.2	0535	5.8	0603	6.4	0003	1.0	**30** TH ☾
	1009	1.1	1038	1.3	1049	1.4	1102	1.3	1133	1.4	1203	1.4	0622	6.3	
	1631	3.7	1646	4.2	1701	4.6	1716	5.0	1744	5.6	1813	6.2	1230	1.4	
	2302	0.7	2332	0.9	2337	1.0	2344	1.0					1831	6.1	
31 F	0518	3.8	0548	4.2	0556	4.7	0610	5.1	0011	1.1	0033	1.2	0101	1.1	**31** F
	1120	1.2	1145	1.4	1155	1.5	1208	1.4	0641	5.8	0708	6.3	0727	6.2	
	1738	3.7	1754	4.2	1809	4.6	1824	5.0	1241	1.5	1309	1.6	1334	1.5	
									1853	5.6	1919	6.1	1936	6.1	

JUNE 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
1	0018	0.7	0047	0.9	0052	1.0	0102	1.0	0127	1.1	0153	1.2	0221	1.1	**1**
	0632	3.8	0700	4.2	0707	4.7	0720	5.2	0751	5.8	0819	6.4	0839	6.3	
SA	1234	1.2	1303	1.3	1308	1.4	1321	1.4	1352	1.5	1423	1.5	1448	1.4	SA
	1849	3.7	1908	4.2	1922	4.7	1938	5.0	2008	5.7	2037	6.2	2056	6.2	
2	0129	0.6	0158	0.8	0206	0.9	0218	0.9	0241	1.0	0311	1.1	0335	0.9	**2**
	0741	3.9	0810	4.3	0817	4.8	0830	5.3	0900	6.0	0929	6.5	0947	6.5	
SU	1342	1.1	1415	1.2	1421	1.3	1432	1.3	1503	1.3	1535	1.4	1600	1.3	SU
	1958	3.8	2015	4.3	2030	4.8	2047	5.2	2118	5.9	2149	6.4	2208	6.4	
3	0234	0.5	0300	0.7	0312	0.8	0327	0.8	0354	0.9	0421	0.9	0444	0.8	**3**
	0844	4.0	0913	4.4	0921	4.9	0934	5.4	1007	6.1	1034	6.7	1053	6.7	
M	1443	1.0	1515	1.1	1526	1.2	1538	1.1	1611	1.2	1644	1.2	1711	1.1	M
	2100	4.0	2116	4.5	2133	5.0	2149	5.4	2222	6.0	2253	6.6	2312	6.6	
4	0333	0.5	0356	0.7	0411	0.7	0429	0.7	0504	0.8	0533	0.8	0601	0.8	**4**
	0941	4.1	1009	4.5	1019	5.0	1032	5.6	1106	6.3	1134	6.9	1154	6.8	
TU	1540	0.8	1609	0.9	1624	1.0	1640	1.0	1717	1.0	1751	1.0	1821	1.0	TU
	2157	4.1	2213	4.6	2230	5.1	2245	5.5	2319	6.2	2350	6.8			
5	0425	0.5	0446	0.7	0504	0.7	0524	0.7	0602	0.7	0638	0.8	0010	6.8	**5**
	1031	4.2	1059	4.6	1110	5.1	1123	5.6	1157	6.4	1226	7.0	0707	0.7	
W	1634	0.7	1700	0.8	1718	0.9	1737	0.8	1817	0.9	1854	0.9	1247	6.9	W
	2247	4.2	2308	4.7	2322	5.2	2336	5.7					1924	0.8	
6	0512	0.6	0533	0.7	0551	0.8	0613	0.7	0009	6.3	0041	7.0	0102	6.9	**6**
	1118	4.2	1145	4.6	1156	5.2	1210	5.7	0652	0.8	0731	0.8	0759	0.7	
TH	1725	0.6	1751	0.7	1809	0.8	1831	0.7	1243	6.4	1313	7.0	1334	7.0	TH
●	2335	4.3							1911	0.8	1949	0.8	2018	0.7	●
7	0555	0.6	0000	4.7	0011	5.3	0024	5.8	0057	6.5	0128	7.1	0149	7.0	**7**
	1202	4.2	0617	0.8	0635	0.8	0658	0.8	0737	0.8	0816	0.9	0845	0.8	
F	1814	0.5	1227	4.6	1239	5.2	1253	5.7	1326	6.4	1356	7.0	1417	7.0	F
			1840	0.7	1858	0.7	1921	0.7	2001	0.7	2038	0.7	2106	0.6	
8	0021	4.3	0050	4.7	0058	5.3	0111	5.8	0144	6.5	0214	7.1	0235	7.0	**8**
	0636	0.7	0659	0.8	0716	0.9	0738	0.9	0818	0.9	0855	1.0	0925	0.9	
SA	1246	4.2	1307	4.6	1321	5.2	1335	5.7	1408	6.4	1439	7.0	1459	6.9	SA
	1901	0.5	1928	0.6	1944	0.7	2007	0.7	2046	0.7	2121	0.8	2150	0.7	
9	0106	4.3	0136	4.7	0144	5.2	0157	5.8	0230	6.5	0300	7.1	0319	7.0	**9**
	0714	0.9	0740	1.0	0755	1.1	0814	1.0	0852	1.1	0927	1.1	1000	1.0	
SU	1328	4.1	1346	4.6	1402	5.1	1417	5.6	1450	6.3	1520	6.8	1539	6.8	SU
	1946	0.6	2014	0.7	2028	0.7	2048	0.7	2125	0.8	2158	0.8	2228	0.7	
10	0150	4.1	0220	4.5	0229	5.1	0243	5.6	0316	6.3	0345	6.9	0404	6.8	**10**
	0750	1.0	0818	1.1	0831	1.2	0844	1.2	0920	1.2	0954	1.3	1028	1.2	
M	1408	4.0	1425	4.5	1442	5.0	1458	5.4	1530	6.1	1600	6.6	1617	6.6	M
	2027	0.6	2058	0.8	2108	0.8	2123	0.8	2157	0.9	2228	0.9	2259	0.9	
11	0234	4.0	0302	4.4	0313	5.0	0327	5.5	0400	6.1	0428	6.7	0446	6.6	**11**
	0826	1.1	0856	1.2	0906	1.3	0915	1.3	0948	1.3	1023	1.4	1055	1.3	
TU	1449	3.9	1504	4.4	1521	4.8	1538	5.3	1609	5.9	1638	6.4	1654	6.3	TU
	2107	0.7	2140	0.8	2146	0.9	2155	0.9	2225	1.0	2257	1.0	2326	0.9	
12	0319	3.9	0345	4.3	0357	4.8	0412	5.2	0444	5.9	0511	6.4	0528	6.3	**12**
	0904	1.2	0934	1.4	0943	1.4	0950	1.4	1022	1.4	1057	1.5	1127	1.4	
W	1530	3.8	1545	4.3	1603	4.7	1619	5.1	1648	5.7	1715	6.2	1732	6.2	W
	2151	0.7	2224	0.9	2226	1.0	2232	1.0	2300	1.1	2331	1.1	2358	1.0	
13	0407	3.7	0430	4.1	0442	4.6	0457	5.0	0529	5.7	0554	6.2	0612	6.1	**13**
	0948	1.3	1018	1.5	1025	1.6	1033	1.5	1103	1.6	1137	1.6	1204	1.5	
TH	1616	3.7	1630	4.1	1647	4.6	1703	4.9	1732	5.5	1756	6.0	1812	6.0	TH
	2241	0.8	2312	1.0	2313	1.1	2318	1.1	2344	1.2					
14	0459	3.5	0522	4.0	0531	4.4	0546	4.8	0617	5.5	0013	1.2	0038	1.1	**14**
	1042	1.4	1108	1.6	1115	1.7	1122	1.6	1151	1.7	0641	6.0	0700	5.9	
F	1709	3.6	1723	4.0	1739	4.5	1754	4.8	1823	5.4	1222	1.8	1247	1.6	F
☽	2339	0.8									1845	5.9	1901	5.8	☽
15	0556	3.5	0008	1.1	0009	1.2	0015	1.2	0038	1.3	0104	1.4	0127	1.3	**15**
	1150	1.5	0623	3.9	0627	4.3	0640	4.7	0709	5.4	0735	5.9	0755	5.8	
SA	1807	3.5	1211	1.7	1214	1.8	1220	1.8	1247	1.8	1314	1.9	1337	1.8	SA
			1829	3.9	1838	4.4	1854	4.7	1923	5.3	1948	5.8	2007	5.7	

JUNE 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
16 SU	0040	0.9	0108	1.1	0111	1.3	0120	1.2	0141	1.3	0205	1.4	0230	1.3	**16** SU
	0654	3.5	0725	3.9	0728	4.3	0739	4.7	0805	5.4	0832	5.9	0853	5.8	
	1302	1.4	1328	1.7	1326	1.8	1330	1.8	1350	1.9	1414	2.0	1437	1.9	
	1906	3.5	1936	4.0	1943	4.4	1958	4.7	2026	5.3	2055	5.8	2117	5.8	
17 M	0138	0.9	0206	1.1	0212	1.2	0223	1.2	0246	1.3	0313	1.4	0338	1.3	**17** M
	0752	3.5	0822	4.0	0828	4.4	0838	4.8	0903	5.5	0930	6.0	0950	5.9	
	1402	1.3	1433	1.5	1436	1.7	1441	1.6	1501	1.8	1526	1.9	1554	1.8	
	2006	3.6	2033	4.0	2045	4.5	2059	4.8	2128	5.5	2157	6.0	2218	5.9	
18 TU	0232	0.9	0259	1.1	0307	1.2	0320	1.1	0346	1.2	0414	1.3	0439	1.2	**18** TU
	0846	3.7	0913	4.1	0923	4.5	0934	5.0	1001	5.6	1027	6.2	1047	6.1	
	1455	1.2	1526	1.4	1534	1.5	1542	1.5	1606	1.6	1636	1.6	1704	1.6	
	2102	3.7	2125	4.2	2140	4.6	2154	5.0	2225	5.7	2254	6.2	2314	6.2	
19 W	0322	0.8	0347	1.0	0358	1.1	0412	1.1	0441	1.1	0509	1.2	0535	1.1	**19** W
	0936	3.8	1000	4.3	1012	4.7	1024	5.2	1055	5.8	1122	6.4	1141	6.3	
	1544	1.1	1615	1.2	1624	1.3	1635	1.3	1704	1.4	1734	1.4	1802	1.3	
	2153	3.8	2213	4.3	2229	4.8	2244	5.2	2317	5.9	2346	6.4			
20 TH	0408	0.8	0433	1.0	0445	1.1	0501	1.0	0532	1.1	0601	1.1	0006	6.4	**20** TH
	1021	3.9	1042	4.4	1056	4.9	1110	5.3	1143	6.0	1211	6.6	0628	1.0	
	1630	0.9	1701	1.1	1711	1.2	1726	1.1	1757	1.2	1828	1.3	1231	6.5	
	2239	3.9	2258	4.3	2314	4.9	2330	5.3					1856	1.1	
21 F	0450	0.8	0516	1.0	0529	1.0	0546	1.0	0004	6.0	0034	6.6	0054	6.6	**21** F
	1103	4.0	1122	4.4	1138	5.0	1153	5.4	0619	1.1	0649	1.1	0719	1.0	
	1714	0.8	1745	1.0	1757	1.1	1814	1.0	1227	6.1	1257	6.7	1317	6.7	
	2322	4.0	2342	4.4	2358	5.0			1847	1.1	1918	1.1	1949	1.0	
22 SA ○	0530	0.8	0557	0.9	0611	1.0	0014	5.5	0048	6.2	0119	6.7	0139	6.7	**22** SA ○
	1145	4.1	1201	4.5	1219	5.0	0629	1.0	0702	1.1	0735	1.1	0808	1.0	
	1758	0.7	1828	0.9	1841	0.9	1235	5.5	1310	6.2	1341	6.8	1401	6.7	
							1900	0.9	1935	1.0	2007	1.1	2040	0.9	
23 SU	0006	4.1	0027	4.5	0042	5.1	0058	5.6	0132	6.3	0203	6.9	0224	6.8	**23** SU
	0609	0.8	0638	0.9	0652	1.0	0709	0.9	0743	1.0	0819	1.0	0855	0.9	
	1227	4.1	1241	4.6	1300	5.1	1317	5.6	1352	6.3	1424	6.8	1444	6.8	
	1842	0.6	1911	0.8	1925	0.8	1945	0.8	2021	0.9	2055	1.0	2129	0.8	
24 M	0050	4.2	0115	4.6	0127	5.2	0142	5.7	0216	6.4	0248	7.0	0308	6.9	**24** M
	0649	0.8	0719	0.9	0733	1.0	0749	0.9	0825	1.0	0902	1.0	0940	0.9	
	1311	4.1	1323	4.6	1343	5.1	1400	5.6	1434	6.3	1507	6.8	1526	6.8	
	1927	0.6	1956	0.7	2010	0.8	2029	0.8	2106	0.8	2142	0.9	2216	0.7	
25 TU	0135	4.2	0204	4.6	0214	5.2	0228	5.7	0302	6.4	0333	7.0	0353	6.9	**25** TU
	0731	0.8	0802	0.9	0815	1.0	0832	0.9	0908	0.9	0946	1.0	1023	0.9	
	1355	4.1	1408	4.6	1426	5.1	1444	5.6	1517	6.3	1549	6.8	1608	6.7	
	2013	0.5	2042	0.6	2056	0.7	2114	0.7	2151	0.8	2226	0.8	2300	0.7	
26 W	0221	4.2	0253	4.6	0301	5.2	0316	5.7	0348	6.4	0419	7.0	0438	6.9	**26** W
	0815	0.9	0846	1.0	0900	1.0	0917	0.9	0954	1.0	1030	1.0	1104	0.9	
	1439	4.1	1453	4.6	1510	5.0	1527	5.5	1600	6.2	1631	6.7	1649	6.7	
	2101	0.5	2131	0.6	2142	0.7	2200	0.7	2236	0.8	2308	0.8	2341	0.7	
27 TH	0310	4.1	0343	4.5	0350	5.1	0405	5.6	0437	6.3	0506	6.8	0525	6.8	**27** TH
	0902	0.9	0933	1.0	0947	1.1	1003	1.0	1040	1.1	1114	1.1	1146	1.0	
	1527	4.0	1540	4.5	1557	5.0	1613	5.4	1645	6.1	1714	6.6	1732	6.6	
	2152	0.5	2221	0.7	2232	0.7	2247	0.7	2322	0.8	2351	0.8			
28 F ☾	0402	4.0	0434	4.4	0442	5.0	0457	5.5	0529	6.2	0557	6.7	0022	0.7	**28** F ☾
	0954	1.0	1022	1.1	1036	1.2	1052	1.1	1128	1.2	1201	1.2	0615	6.6	
	1618	4.0	1630	4.5	1648	4.9	1704	5.3	1734	6.0	1802	6.5	1230	1.1	
	2249	0.5	2317	0.7	2326	0.8	2339	0.8					1820	6.5	
29 SA	0501	3.9	0530	4.3	0538	4.9	0553	5.3	0012	0.8	0039	0.9	0109	0.8	**29** SA
	1052	1.1	1117	1.2	1131	1.3	1145	1.2	0625	6.0	0653	6.6	0712	6.5	
	1715	3.9	1728	4.4	1746	4.9	1802	5.3	1221	1.3	1253	1.3	1321	1.2	
	2352	0.6							1832	5.9	1859	6.4	1917	6.4	
30 SU	0604	3.9	0019	0.8	0026	0.8	0038	0.8	0107	0.9	0136	0.9	0204	0.8	**30** SU
	1158	1.1	0632	4.3	0639	4.8	0654	5.3	0726	5.9	0755	6.5	0815	6.4	
	1819	3.9	1224	1.3	1234	1.4	1247	1.3	1320	1.4	1352	1.4	1420	1.3	
			1835	4.4	1851	4.8	1908	5.2	1939	5.8	2007	6.4	2027	6.3	

JULY 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
1	0058	0.6	0126	0.8	0132	0.9	0144	0.9	0208	1.0	0238	1.0	0305	0.9	**1**
M	0709	3.8	0737	4.3	0745	4.8	0759	5.2	0830	5.9	0859	6.5	0919	6.4	M
	1308	1.1	1339	1.3	1346	1.4	1356	1.3	1426	1.4	1500	1.4	1527	1.3	
	1927	3.9	1944	4.3	2000	4.8	2016	5.2	2048	5.8	2119	6.4	2139	6.3	
2	0205	0.7	0230	0.9	0240	1.0	0252	1.0	0316	1.1	0345	1.1	0409	1.0	**2**
TU	0815	3.8	0843	4.3	0852	4.8	0906	5.2	0937	5.9	1005	6.5	1024	6.4	TU
	1417	1.1	1448	1.2	1458	1.3	1509	1.3	1538	1.3	1612	1.4	1639	1.3	
	2036	3.9	2052	4.3	2109	4.8	2124	5.2	2156	5.9	2227	6.4	2247	6.4	
3	0309	0.8	0331	0.9	0345	1.0	0400	1.0	0431	1.1	0456	1.1	0522	1.1	**3**
W	0919	3.9	0945	4.3	0957	4.8	1010	5.3	1042	6.0	1111	6.5	1130	6.5	W
	1524	1.0	1551	1.1	1605	1.2	1619	1.1	1654	1.2	1725	1.2	1754	1.1	
	2140	4.0	2200	4.4	2215	4.9	2228	5.3	2301	6.0	2331	6.6	2352	6.5	
4	0408	0.8	0428	1.0	0444	1.1	0502	1.0	0538	1.1	0610	1.1	0638	1.0	**4**
TH	1016	4.0	1042	4.4	1054	4.9	1108	5.4	1140	6.1	1209	6.6	1230	6.6	TH
	1626	0.8	1651	1.0	1707	1.0	1724	1.0	1802	1.0	1835	1.1	1904	0.9	
	2236	4.0	2302	4.5	2314	5.0	2327	5.4	2359	6.1					
5	0458	0.8	0519	1.0	0536	1.1	0555	1.0	0633	1.1	0029	6.7	0050	6.7	**5**
F	1106	4.0	1131	4.5	1144	5.0	1158	5.5	1230	6.1	0709	1.1	0736	1.0	F
●	1722	0.7	1746	0.8	1802	0.9	1822	0.8	1900	0.9	1300	6.7	1321	6.7	●
	2326	4.1	2356	4.5							1935	0.9	2003	0.8	
6	0542	0.9	0604	1.0	0005	5.1	0018	5.5	0049	6.2	0120	6.8	0141	6.8	**6**
SA	1151	4.1	1213	4.5	0622	1.1	0642	1.0	0720	1.1	0758	1.1	0825	1.0	SA
	1811	0.6	1835	0.7	1227	5.0	1242	5.5	1314	6.2	1345	6.8	1406	6.8	
					1852	0.7	1913	0.7	1951	0.8	2027	0.8	2053	0.7	
7	0011	4.2	0042	4.6	0051	5.1	0104	5.6	0136	6.3	0206	6.9	0227	6.8	**7**
SU	0622	0.9	0645	1.0	0703	1.1	0724	1.1	0803	1.1	0839	1.2	0908	1.0	SU
	1233	4.1	1251	4.6	1307	5.1	1323	5.6	1355	6.2	1427	6.8	1447	6.8	
	1856	0.5	1920	0.7	1937	0.7	1959	0.7	2037	0.7	2112	0.8	2139	0.6	
8	0053	4.2	0124	4.5	0133	5.1	0147	5.6	0219	6.3	0250	6.9	0311	6.8	**8**
M	0659	0.9	0724	1.0	0741	1.1	0800	1.1	0839	1.1	0914	1.2	0946	1.1	M
	1312	4.1	1327	4.6	1345	5.1	1402	5.6	1435	6.2	1505	6.8	1525	6.7	
	1936	0.5	2002	0.6	2018	0.7	2039	0.7	2116	0.8	2149	0.8	2218	0.7	
9	0134	4.1	0202	4.5	0213	5.1	0228	5.6	0301	6.3	0331	6.9	0351	6.8	**9**
TU	0733	1.0	0800	1.1	0815	1.2	0830	1.1	0907	1.2	0941	1.2	1016	1.1	TU
	1350	4.1	1403	4.6	1422	5.1	1439	5.5	1512	6.2	1542	6.7	1600	6.7	
	2013	0.6	2040	0.7	2053	0.8	2112	0.7	2147	0.8	2218	0.8	2249	0.7	
10	0214	4.0	0239	4.4	0252	5.0	0308	5.5	0341	6.2	0410	6.8	0429	6.7	**10**
W	0805	1.0	0834	1.1	0847	1.2	0858	1.2	0934	1.2	1009	1.2	1041	1.1	W
	1425	4.1	1440	4.5	1458	5.0	1515	5.5	1547	6.1	1616	6.6	1633	6.6	
	2046	0.6	2115	0.7	2125	0.8	2138	0.8	2212	0.8	2244	0.9	2314	0.8	
11	0252	4.0	0316	4.4	0330	4.9	0346	5.4	0419	6.1	0446	6.6	0504	6.5	**11**
TH	0837	1.1	0907	1.2	0918	1.3	0929	1.2	1004	1.2	1039	1.2	1109	1.1	TH
	1500	4.0	1516	4.5	1534	4.9	1550	5.3	1621	6.0	1649	6.5	1706	6.5	
	2120	0.6	2149	0.8	2157	0.9	2207	0.8	2240	0.9	2312	0.9	2339	0.8	
12	0330	3.8	0353	4.3	0407	4.8	0422	5.2	0455	5.9	0520	6.4	0538	6.3	**12**
F	0911	1.1	0941	1.3	0952	1.4	1003	1.3	1037	1.3	1111	1.3	1140	1.2	F
	1537	3.9	1552	4.4	1609	4.8	1625	5.2	1654	5.8	1721	6.3	1739	6.3	
	2157	0.7	2224	0.9	2232	1.0	2241	0.9	2312	1.0	2343	1.0			
13	0409	3.7	0430	4.1	0444	4.6	0459	5.0	0531	5.7	0556	6.3	0009	0.9	**13**
SA	0950	1.2	1019	1.4	1030	1.5	1039	1.4	1112	1.4	1144	1.5	0614	6.2	SA
☽	1617	3.8	1630	4.3	1648	4.7	1702	5.0	1731	5.7	1756	6.2	1212	1.4	☽
	2239	0.8	2304	1.0	2311	1.1	2319	1.1	2347	1.1			1814	6.1	
14	0453	3.6	0510	4.0	0525	4.5	0539	4.9	0611	5.5	0014	1.2	0040	1.1	**14**
SU	1035	1.4	1102	1.5	1112	1.6	1120	1.6	1150	1.6	0635	6.1	0653	6.0	SU
	1705	3.6	1715	4.1	1733	4.5	1747	4.9	1816	5.5	1220	1.7	1246	1.5	
	2331	0.9	2353	1.2	2359	1.3					1839	6.0	1855	5.9	
15	0546	3.5	0600	3.9	0613	4.3	0004	1.2	0028	1.3	0051	1.4	0115	1.3	**15**
M	1134	1.4	1157	1.6	1205	1.7	0627	4.7	0659	5.4	0723	5.9	0742	5.8	M
	1805	3.5	1810	4.0	1829	4.4	1210	1.7	1237	1.8	1303	1.8	1327	1.7	
							1845	4.7	1916	5.3	1936	5.8	1951	5.7	

JULY 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
16 TU	0034	1.0	0054	1.3	0100	1.4	0104	1.4	0122	1.5	0142	1.6	0204	1.4	**16** TU
	0647	3.5	0705	3.9	0713	4.3	0726	4.7	0756	5.3	0822	5.8	0844	5.8	
	1254	1.4	1313	1.7	1316	1.8	1316	1.8	1339	1.8	1402	1.9	1422	1.8	
	1912	3.5	1924	3.9	1939	4.3	1956	4.7	2026	5.3	2054	5.8	2116	5.7	
17 W	0141	1.1	0202	1.3	0210	1.4	0220	1.4	0236	1.5	0258	1.6	0326	1.5	**17** W
	0751	3.5	0818	3.9	0824	4.3	0834	4.7	0901	5.4	0929	5.9	0952	5.8	
	1408	1.3	1436	1.5	1441	1.7	1446	1.7	1502	1.8	1525	1.9	1553	1.8	
	2019	3.5	2038	4.0	2052	4.4	2107	4.8	2136	5.4	2206	5.9	2228	5.9	
18 TH	0243	1.0	0306	1.3	0317	1.4	0330	1.3	0352	1.4	0419	1.5	0447	1.4	**18** TH
	0854	3.6	0920	4.1	0930	4.5	0941	4.9	1009	5.6	1037	6.1	1058	6.0	
	1511	1.2	1542	1.4	1551	1.4	1601	1.4	1624	1.5	1653	1.6	1722	1.5	
	2121	3.7	2141	4.1	2156	4.6	2211	5.0	2242	5.6	2311	6.2	2331	6.2	
19 F	0339	1.0	0404	1.2	0416	1.3	0430	1.2	0458	1.3	0524	1.4	0552	1.2	**19** F
	0951	3.8	1013	4.3	1027	4.7	1040	5.1	1112	5.8	1140	6.3	1201	6.3	
	1608	1.0	1639	1.1	1649	1.2	1704	1.2	1732	1.3	1759	1.3	1827	1.2	
	2216	3.9	2237	4.3	2252	4.8	2306	5.2	2339	5.9					
20 SA	0430	0.9	0456	1.1	0509	1.2	0526	1.1	0557	1.2	0010	6.5	0029	6.4	**20** SA
	1042	3.9	1100	4.4	1117	4.9	1132	5.3	1206	6.0	0624	1.2	0653	1.1	
	1701	0.8	1730	1.0	1743	1.0	1801	1.0	1834	1.1	1236	6.6	1256	6.5	
	2305	4.0	2329	4.4	2342	5.0	2357	5.5			1902	1.1	1931	1.0	
21 SU ○	0516	0.9	0543	1.0	0557	1.1	0616	1.0	0031	6.2	0102	6.8	0122	6.7	**21** SU ○
	1128	4.1	1143	4.5	1202	5.0	1219	5.5	0651	1.1	0721	1.1	0754	1.0	
	1750	0.7	1818	0.8	1833	0.8	1855	0.8	1254	6.2	1325	6.8	1346	6.7	
	2352	4.2							1931	0.9	2003	1.0	2032	0.8	
22 M	0559	0.8	0018	4.6	0029	5.2	0045	5.7	0119	6.4	0151	7.0	0211	6.9	**22** M
	1213	4.2	0627	0.9	0642	1.0	0703	0.9	0741	1.0	0816	1.1	0849	0.9	
	1837	0.5	1226	4.6	1246	5.2	1304	5.7	1338	6.3	1411	6.9	1431	6.9	
			1904	0.6	1920	0.7	1944	0.7	2023	0.7	2059	0.8	2127	0.6	
23 TU	0037	4.3	0107	4.7	0116	5.3	0132	5.9	0205	6.6	0238	7.2	0257	7.1	**23** TU
	0641	0.8	0709	0.8	0726	0.9	0747	0.9	0827	0.9	0905	0.9	0938	0.8	
	1258	4.3	1309	4.7	1330	5.3	1348	5.8	1422	6.5	1455	7.0	1514	7.0	
	1922	0.4	1949	0.5	2006	0.5	2030	0.5	2110	0.6	2148	0.6	2216	0.4	
24 W	0123	4.4	0155	4.8	0203	5.4	0218	6.0	0251	6.7	0323	7.3	0343	7.2	**24** W
	0722	0.7	0751	0.8	0808	0.9	0830	0.8	0910	0.8	0950	0.8	1022	0.7	
	1342	4.3	1354	4.8	1413	5.3	1431	5.8	1504	6.5	1537	7.1	1556	7.0	
	2007	0.3	2033	0.4	2050	0.5	2114	0.4	2153	0.5	2232	0.5	2300	0.3	
25 TH	0209	4.4	0243	4.8	0250	5.4	0304	6.0	0337	6.7	0408	7.3	0427	7.2	**25** TH
	0804	0.8	0833	0.8	0850	0.9	0911	0.8	0952	0.8	1030	0.8	1103	0.7	
	1426	4.3	1438	4.8	1456	5.3	1514	5.8	1547	6.5	1618	7.1	1636	7.0	
	2051	0.3	2117	0.4	2133	0.5	2155	0.4	2234	0.4	2311	0.4	2340	0.3	
26 F	0256	4.3	0329	4.7	0336	5.3	0351	5.8	0423	6.6	0452	7.2	0511	7.1	**26** F
	0846	0.8	0915	0.9	0932	1.0	0951	0.8	1032	0.9	1109	0.8	1140	0.8	
	1510	4.3	1522	4.8	1540	5.3	1557	5.7	1629	6.4	1659	7.0	1717	6.9	
	2135	0.4	2202	0.5	2216	0.5	2235	0.5	2313	0.5	2347	0.5			
27 SA	0344	4.2	0414	4.6	0422	5.1	0438	5.7	0510	6.4	0538	7.0	0016	0.4	**27** SA
	0932	0.9	0959	1.0	1016	1.1	1033	1.0	1112	1.0	1147	1.0	0558	6.9	
	1556	4.2	1608	4.7	1626	5.2	1642	5.6	1714	6.3	1742	6.8	1217	0.9	
	2223	0.5	2249	0.6	2300	0.7	2316	0.6	2352	0.7			1801	6.8	
28 SU ☾	0436	4.0	0501	4.4	0512	5.0	0528	5.4	0600	6.1	0023	0.7	0052	0.6	**28** SU ☾
	1023	1.0	1047	1.1	1103	1.2	1117	1.1	1155	1.2	0628	6.7	0647	6.6	
	1648	4.1	1700	4.6	1719	5.0	1734	5.4	1805	6.1	1229	1.2	1258	1.1	
	2318	0.6	2343	0.8	2352	0.9					1831	6.6	1851	6.6	
29 M	0533	3.9	0557	4.2	0608	4.8	0004	0.8	0036	0.9	0105	0.9	0134	0.8	**29** M
	1124	1.1	1147	1.3	1201	1.4	0623	5.2	0655	5.9	0722	6.5	0743	6.4	
	1749	3.9	1804	4.4	1821	4.8	1212	1.3	1246	1.3	1318	1.4	1348	1.3	
							1837	5.2	1908	5.9	1934	6.4	1955	6.4	
30 TU	0023	0.8	0050	1.0	0055	1.1	0105	1.1	0130	1.2	0200	1.2	0229	1.1	**30** TU
	0637	3.7	0704	4.1	0713	4.6	0727	5.0	0757	5.7	0825	6.3	0846	6.2	
	1236	1.2	1308	1.4	1315	1.5	1323	1.4	1351	1.5	1424	1.5	1453	1.4	
	1901	3.8	1920	4.2	1934	4.7	1950	5.1	2020	5.7	2049	6.2	2110	6.2	
31 W	0137	1.0	0202	1.2	0210	1.3	0219	1.3	0238	1.4	0308	1.4	0333	1.3	**31** W
	0750	3.6	0817	4.1	0827	4.5	0839	5.0	0908	5.6	0935	6.1	0955	6.1	
	1358	1.2	1429	1.4	1438	1.4	1446	1.4	1511	1.5	1543	1.6	1609	1.4	
	2020	3.7	2040	4.2	2054	4.6	2107	5.0	2137	5.7	2205	6.2	2225	6.2	

AUGUST 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
1	0253	1.1	0314	1.3	0326	1.4	0338	1.4	0404	1.5	0426	1.5	0449	1.4	**1**
TH	0904	3.7	0928	4.2	0940	4.6	0954	5.0	1024	5.7	1052	6.2	1111	6.2	TH
	1521	1.0	1546	1.2	1557	1.3	1609	1.2	1641	1.3	1706	1.4	1734	1.3	
	2133	3.8	2200	4.3	2210	4.7	2222	5.1	2252	5.8	2320	6.3	2340	6.3	
2	0358	1.1	0422	1.3	0433	1.3	0448	1.3	0523	1.4	0551	1.5	0618	1.3	**2**
F	1006	3.9	1032	4.3	1044	4.8	1059	5.2	1129	5.9	1158	6.4	1217	6.4	F
	1629	0.8	1654	1.0	1705	1.0	1721	1.0	1756	1.1	1826	1.1	1853	1.0	
	2232	4.0	2305	4.4	2312	4.9	2325	5.3	2354	6.0					
3	0449	1.0	0514	1.2	0527	1.3	0544	1.2	0620	1.3	0023	6.6	0043	6.5	**3**
SA	1057	4.0	1123	4.4	1134	4.9	1150	5.4	1221	6.0	0653	1.3	0719	1.1	SA
	1720	0.7	1746	0.8	1759	0.8	1818	0.8	1853	0.8	1251	6.6	1310	6.6	
	2320	4.0	2355	4.5							1926	0.8	1951	0.7	
4	0530	1.0	0555	1.1	0001	5.0	0014	5.5	0045	6.2	0114	6.8	0134	6.7	**4**
SU	1140	4.1	1203	4.5	0610	1.2	0629	1.1	0707	1.2	0742	1.2	0808	1.0	SU
●	1803	0.5	1829	0.7	1216	5.0	1232	5.5	1304	6.2	1334	6.7	1354	6.7	●
					1844	0.7	1905	0.7	1941	0.7	2015	0.7	2040	0.6	
5	0001	4.1	0035	4.5	0041	5.1	0055	5.6	0127	6.3	0157	6.9	0218	6.8	**5**
M	0606	0.9	0630	1.1	0648	1.1	0708	1.1	0747	1.1	0823	1.2	0850	1.0	M
	1218	4.2	1235	4.6	1251	5.1	1308	5.6	1341	6.2	1412	6.8	1432	6.8	
	1841	0.5	1906	0.6	1923	0.7	1945	0.6	2022	0.7	2056	0.7	2122	0.6	
6	0038	4.2	0109	4.5	0117	5.1	0132	5.6	0205	6.3	0236	6.9	0257	6.8	**6**
TU	0638	0.9	0704	1.0	0721	1.1	0742	1.1	0821	1.1	0856	1.2	0926	1.0	TU
	1253	4.2	1305	4.7	1324	5.2	1342	5.6	1415	6.3	1446	6.9	1506	6.8	
	1915	0.5	1940	0.6	1957	0.7	2019	0.6	2056	0.7	2129	0.7	2158	0.6	
7	0114	4.2	0139	4.5	0151	5.1	0207	5.7	0241	6.3	0311	7.0	0332	6.8	**7**
W	0709	0.9	0736	1.0	0753	1.1	0810	1.0	0848	1.1	0922	1.1	0956	1.0	W
	1326	4.2	1338	4.7	1357	5.2	1415	5.7	1448	6.3	1518	6.9	1537	6.8	
	1946	0.5	2012	0.6	2027	0.7	2046	0.6	2122	0.7	2155	0.7	2226	0.6	
8	0148	4.2	0210	4.5	0225	5.1	0241	5.7	0315	6.3	0344	6.9	0403	6.8	**8**
TH	0739	0.9	0807	1.0	0822	1.1	0835	1.0	0913	1.1	0948	1.1	1020	1.0	TH
	1357	4.2	1412	4.7	1430	5.2	1447	5.7	1519	6.3	1549	6.9	1607	6.8	
	2015	0.5	2042	0.7	2054	0.7	2110	0.7	2147	0.7	2219	0.7	2249	0.6	
9	0221	4.1	0243	4.5	0257	5.0	0314	5.6	0346	6.3	0414	6.8	0433	6.7	**9**
F	0807	0.9	0836	1.1	0850	1.1	0903	1.0	0940	1.1	1016	1.1	1046	1.0	F
	1428	4.2	1445	4.6	1501	5.1	1518	5.6	1549	6.2	1619	6.8	1637	6.7	
	2044	0.6	2110	0.8	2122	0.8	2136	0.7	2212	0.8	2245	0.8	2313	0.7	
10	0251	4.0	0315	4.4	0329	4.9	0344	5.4	0416	6.1	0444	6.7	0502	6.6	**10**
SA	0836	1.0	0906	1.1	0919	1.2	0932	1.1	1008	1.1	1044	1.1	1113	1.1	SA
	1459	4.1	1516	4.5	1532	5.0	1547	5.4	1618	6.1	1647	6.6	1706	6.6	
	2112	0.7	2139	0.9	2150	0.9	2204	0.9	2238	0.9	2309	0.9	2337	0.8	
11	0322	3.9	0345	4.3	0359	4.8	0414	5.2	0446	5.9	0513	6.5	0532	6.4	**11**
SU	0908	1.1	0937	1.3	0950	1.3	1001	1.2	1034	1.3	1109	1.3	1139	1.2	SU
	1531	3.9	1547	4.4	1603	4.8	1618	5.2	1647	5.9	1717	6.4	1736	6.4	
	2144	0.8	2211	1.0	2221	1.1	2231	1.0	2259	1.1	2329	1.1	2357	1.0	
12	0356	3.7	0417	4.2	0432	4.6	0446	5.1	0517	5.7	0545	6.3	0604	6.2	**12**
M	0945	1.2	1013	1.4	1024	1.4	1031	1.4	1058	1.4	1132	1.5	1202	1.4	M
☽	1607	3.8	1625	4.2	1641	4.7	1654	5.0	1722	5.7	1751	6.2	1811	6.1	☽
	2222	1.0	2251	1.2	2257	1.3	2301	1.2	2323	1.3	2352	1.3			
13	0437	3.6	0458	4.0	0513	4.5	0526	4.9	0557	5.5	0624	6.1	0021	1.2	**13**
TU	1032	1.3	1059	1.5	1107	1.6	1111	1.6	1134	1.6	1205	1.6	0643	6.0	TU
	1656	3.6	1715	4.0	1730	4.5	1743	4.8	1809	5.4	1837	5.9	1234	1.5	
	2317	1.1	2345	1.4	2347	1.5	2347	1.5					1856	5.9	
14	0537	3.4	0552	3.9	0608	4.3	0621	4.7	0005	1.5	0032	1.6	0058	1.4	**14**
W	1141	1.4	1204	1.6	1209	1.8	1210	1.7	0651	5.3	0715	5.8	0733	5.8	W
	1810	3.4	1822	3.9	1839	4.3	1853	4.6	1231	1.8	1257	1.8	1322	1.7	
									1921	5.2	1942	5.7	1958	5.6	
15	0041	1.3	0102	1.5	0105	1.6	0101	1.6	0116	1.7	0136	1.8	0157	1.7	**15**
TH	0659	3.4	0713	3.8	0724	4.2	0737	4.6	0804	5.2	0829	5.7	0848	5.6	TH
	1321	1.4	1345	1.6	1347	1.8	1344	1.8	1359	1.9	1416	2.0	1433	1.9	
	1939	3.4	1953	3.9	2007	4.3	2023	4.6	2050	5.2	2118	5.7	2141	5.6	

AUGUST 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
16	0206	1.3	0228	1.5	0237	1.6	0247	1.6	0304	1.7	0328	1.9	0355	1.8	**16**
	0817	3.5	0842	3.9	0852	4.3	0902	4.7	0928	5.3	0955	5.8	1018	5.8	
F	1442	1.2	1513	1.4	1521	1.5	1531	1.6	1551	1.7	1617	1.8	1647	1.7	F
	2055	3.6	2116	4.0	2129	4.5	2142	4.9	2210	5.5	2240	6.0	2300	6.0	
17	0314	1.1	0341	1.3	0351	1.4	0405	1.4	0430	1.5	0455	1.6	0521	1.5	**17**
	0926	3.7	0948	4.2	1001	4.6	1015	5.0	1045	5.6	1113	6.2	1133	6.1	
SA	1548	1.0	1620	1.1	1629	1.2	1644	1.2	1712	1.3	1736	1.4	1802	1.2	SA
	2157	3.9	2223	4.3	2233	4.8	2246	5.2	2318	5.9	2348	6.5			
18	0410	1.0	0439	1.1	0450	1.2	0507	1.2	0539	1.2	0604	1.3	0007	6.4	**18**
	1021	3.9	1041	4.4	1056	4.9	1112	5.3	1145	6.0	1215	6.6	0632	1.2	
SU	1645	0.7	1715	0.9	1727	0.9	1747	0.9	1821	1.0	1848	1.0	1235	6.5	SU
	2248	4.1	2318	4.5	2326	5.1	2340	5.6					1916	0.9	
19	0458	0.9	0527	1.0	0541	1.1	0602	1.0	0014	6.3	0044	6.9	0104	6.8	**19**
	1109	4.1	1126	4.6	1143	5.1	1200	5.6	0638	1.0	0708	1.1	0740	1.0	
M	1735	0.5	1803	0.6	1818	0.7	1842	0.7	1234	6.3	1306	6.9	1326	6.8	M
○	2335	4.3							1920	0.7	1954	0.8	2022	0.6	○
20	0542	0.8	0007	4.7	0014	5.3	0029	5.9	0103	6.6	0134	7.2	0154	7.1	**20**
	1154	4.3	0610	0.9	0626	0.9	0650	0.9	0730	0.9	0806	0.9	0836	0.8	
TU	1821	0.3	1208	4.7	1226	5.3	1245	5.8	1319	6.5	1352	7.1	1412	7.0	TU
			1847	0.5	1905	0.5	1931	0.4	2011	0.5	2049	0.5	2115	0.3	
21	0020	4.5	0053	4.8	0059	5.5	0115	6.1	0148	6.8	0220	7.4	0240	7.3	**21**
	0623	0.7	0652	0.8	0710	0.8	0734	0.8	0816	0.8	0855	0.8	0926	0.7	
W	1238	4.4	1250	4.9	1309	5.4	1328	6.0	1401	6.7	1435	7.3	1455	7.2	W
	1905	0.2	1930	0.3	1949	0.3	2016	0.3	2057	0.3	2136	0.3	2203	0.1	
22	0105	4.6	0138	4.9	0144	5.6	0200	6.2	0233	6.9	0305	7.6	0324	7.5	**22**
	0704	0.7	0732	0.7	0751	0.8	0816	0.7	0859	0.7	0939	0.7	1010	0.6	
TH	1321	4.5	1334	5.0	1351	5.5	1410	6.0	1443	6.8	1516	7.4	1535	7.3	TH
	1947	0.2	2012	0.3	2031	0.3	2057	0.2	2138	0.2	2218	0.2	2245	0.0	
23	0150	4.5	0223	4.9	0229	5.5	0244	6.2	0317	6.9	0348	7.5	0407	7.4	**23**
	0744	0.7	0813	0.7	0832	0.8	0856	0.7	0938	0.7	1018	0.7	1049	0.5	
F	1404	4.5	1417	5.0	1434	5.5	1452	6.0	1525	6.8	1556	7.4	1615	7.3	F
	2028	0.2	2053	0.3	2111	0.4	2135	0.3	2216	0.3	2254	0.3	2322	0.1	
24	0234	4.4	0306	4.8	0312	5.4	0328	6.0	0400	6.7	0430	7.3	0449	7.3	**24**
	0825	0.7	0853	0.8	0911	0.8	0933	0.8	1015	0.8	1053	0.8	1124	0.7	
SA	1447	4.5	1500	4.9	1516	5.5	1533	5.9	1606	6.6	1636	7.2	1655	7.2	SA
	2108	0.4	2133	0.5	2149	0.5	2210	0.5	2250	0.5	2325	0.5	2354	0.4	
25	0319	4.2	0346	4.6	0356	5.2	0411	5.7	0444	6.4	0512	7.0	0532	7.0	**25**
	0907	0.8	0933	0.9	0952	1.0	1010	0.9	1050	0.9	1126	0.9	1157	0.8	
SU	1531	4.3	1544	4.8	1601	5.3	1617	5.8	1648	6.4	1718	7.0	1737	7.0	SU
	2151	0.6	2214	0.7	2228	0.8	2245	0.7	2322	0.8	2354	0.8			
26	0407	4.0	0428	4.4	0441	5.0	0457	5.4	0528	6.1	0556	6.7	0024	0.7	**26**
	0956	0.9	1019	1.1	1036	1.1	1050	1.1	1126	1.1	1201	1.1	0616	6.6	
M	1621	4.1	1635	4.6	1652	5.1	1707	5.5	1737	6.1	1805	6.7	1232	1.0	M
☾	2241	0.8	2304	1.0	2315	1.1	2326	1.1	2358	1.1			1825	6.6	☾
27	0501	3.8	0520	4.2	0534	4.7	0549	5.1	0619	5.8	0028	1.1	0059	1.0	**27**
	1055	1.1	1118	1.3	1132	1.4	1142	1.3	1213	1.4	0646	6.3	0707	6.3	
TU	1722	3.9	1741	4.3	1755	4.8	1810	5.1	1839	5.8	1245	1.4	1315	1.3	TU
	2347	1.1									1904	6.3	1926	6.3	
28	0606	3.6	0014	1.3	0019	1.4	0026	1.4	0052	1.5	0120	1.5	0150	1.4	**28**
	1212	1.2	0632	4.0	0641	4.4	0654	4.8	0723	5.5	0747	6.0	0809	6.0	
W	1842	3.7	1247	1.4	1251	1.5	1257	1.5	1322	1.6	1350	1.6	1419	1.5	W
			1905	4.1	1915	4.5	1929	4.9	1957	5.5	2023	6.0	2045	6.0	
29	0112	1.3	0139	1.5	0144	1.6	0150	1.7	0207	1.8	0235	1.8	0300	1.7	**29**
	0727	3.5	0754	4.0	0804	4.4	0817	4.7	0842	5.3	0907	5.8	0926	5.8	
TH	1350	1.2	1419	1.4	1426	1.5	1432	1.5	1451	1.6	1520	1.7	1543	1.6	TH
	2012	3.6	2037	4.1	2045	4.5	2056	4.9	2123	5.5	2148	6.0	2207	6.0	
30	0241	1.3	0305	1.5	0313	1.6	0323	1.6	0347	1.8	0404	1.9	0424	1.8	**30**
	0850	3.6	0914	4.1	0925	4.5	0940	4.9	1008	5.5	1035	6.0	1052	5.9	
F	1522	0.9	1547	1.2	1554	1.2	1606	1.3	1637	1.4	1655	1.4	1720	1.3	F
	2129	3.8	2200	4.3	2205	4.7	2217	5.1	2244	5.7	2310	6.3	2328	6.2	
31	0347	1.2	0415	1.4	0423	1.5	0437	1.5	0509	1.5	0535	1.6	0601	1.5	**31**
	0954	3.8	1019	4.3	1029	4.8	1045	5.2	1115	5.8	1143	6.3	1200	6.3	
SA	1622	0.7	1649	0.9	1659	1.0	1715	0.9	1747	1.0	1816	1.0	1841	0.9	SA
	2225	4.0	2259	4.4	2303	4.9	2317	5.4	2345	6.0					

SEPTEMBER 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
1 SU	0434	1.1	0503	1.3	0513	1.3	0529	1.3	0603	1.3	0012	6.7	0031	6.6	**1** SU
	1042	4.0	1108	4.5	1118	5.0	1135	5.4	1205	6.1	0634	1.3	0659	1.2	
	1707	0.6	1735	0.7	1747	0.8	1805	0.7	1839	0.7	1234	6.7	1252	6.6	
	2307	4.1	2344	4.5	2347	5.1					1910	0.8	1934	0.6	
2 M	0510	1.0	0539	1.1	0551	1.2	0001	5.5	0032	6.2	0100	6.9	0119	6.8	**2** M
	1121	4.1	1146	4.6	1156	5.1	0610	1.1	0647	1.1	0719	1.2	0745	1.0	
	1744	0.5	1811	0.7	1824	0.7	1213	5.5	1245	6.2	1315	6.8	1334	6.8	
	2343	4.2					1845	0.6	1920	0.6	1953	0.7	2018	0.5	
3 TU ●	0542	0.9	0018	4.6	0023	5.1	0037	5.6	0109	6.3	0139	7.0	0159	6.9	**3** TU ●
	1156	4.2	0609	1.1	0624	1.1	0644	1.1	0723	1.1	0757	1.1	0825	0.9	
	1816	0.5	1213	4.7	1228	5.2	1246	5.6	1319	6.3	1350	6.9	1410	6.8	
			1842	0.6	1857	0.7	1918	0.6	1955	0.6	2028	0.7	2055	0.5	
4 W	0016	4.2	0045	4.6	0053	5.2	0109	5.7	0142	6.4	0213	7.0	0234	6.9	**4** W
	0612	0.9	0639	1.0	0655	1.1	0715	1.0	0754	1.0	0828	1.1	0859	0.9	
	1227	4.3	1239	4.7	1258	5.3	1316	5.7	1349	6.4	1420	7.0	1441	6.9	
	1844	0.5	1910	0.6	1925	0.7	1946	0.6	2024	0.6	2057	0.7	2127	0.6	
5 TH	0047	4.2	0109	4.6	0123	5.2	0140	5.8	0213	6.4	0244	7.1	0305	7.0	**5** TH
	0641	0.8	0709	0.9	0725	1.0	0742	1.0	0821	1.0	0855	1.0	0928	0.9	
	1256	4.3	1309	4.8	1328	5.3	1346	5.8	1418	6.5	1449	7.1	1509	7.0	
	1912	0.5	1938	0.6	1952	0.7	2011	0.6	2049	0.6	2122	0.7	2153	0.6	
6 F	0118	4.2	0137	4.7	0153	5.2	0209	5.8	0242	6.5	0312	7.1	0332	7.0	**6** F
	0709	0.8	0738	0.9	0753	1.0	0808	0.9	0847	1.0	0922	1.0	0954	0.9	
	1326	4.3	1342	4.8	1359	5.3	1416	5.8	1448	6.5	1518	7.1	1537	7.0	
	1939	0.5	2005	0.7	2019	0.7	2036	0.7	2114	0.7	2148	0.7	2218	0.6	
7 SA	0146	4.2	0208	4.6	0222	5.2	0238	5.7	0311	6.4	0340	7.0	0359	6.9	**7** SA
	0736	0.9	0806	1.0	0820	1.1	0835	1.0	0914	1.0	0950	1.0	1020	0.9	
	1355	4.2	1414	4.7	1429	5.2	1445	5.7	1517	6.3	1547	7.0	1606	6.9	
	2005	0.6	2031	0.8	2045	0.8	2102	0.8	2140	0.8	2213	0.8	2242	0.7	

8 SU	0214	4.1	0238	4.5	0250	5.1	0306	5.5	0339	6.2	0408	6.9	0426	6.8	**8** SU
	0804	0.9	0834	1.1	0848	1.1	0902	1.1	0939	1.1	1015	1.1	1046	1.0	
	1424	4.1	1442	4.6	1457	5.1	1513	5.5	1545	6.2	1616	6.8	1635	6.7	
	2030	0.7	2059	0.9	2110	1.0	2126	0.9	2201	1.0	2233	1.0	2303	0.9	
9 M	0243	4.0	0304	4.4	0318	4.9	0333	5.4	0406	6.0	0436	6.7	0455	6.6	**9** M
	0833	1.0	0902	1.2	0915	1.2	0926	1.2	0958	1.2	1036	1.3	1107	1.2	
	1455	4.0	1508	4.4	1526	4.9	1542	5.3	1613	6.0	1645	6.5	1705	6.5	
	2057	0.9	2128	1.1	2137	1.1	2147	1.1	2215	1.1	2249	1.2	2320	1.1	
10 TU	0315	3.8	0330	4.3	0347	4.8	0403	5.2	0435	5.8	0506	6.4	0526	6.4	**10** TU
	0906	1.1	0935	1.3	0945	1.4	0950	1.3	1017	1.4	1055	1.4	1128	1.3	
	1530	3.9	1542	4.3	1600	4.7	1616	5.2	1646	5.8	1718	6.3	1739	6.3	
	2131	1.0	2204	1.3	2208	1.3	2213	1.3	2236	1.3	2312	1.3	2343	1.2	
11 W ☽	0353	3.7	0408	4.1	0425	4.6	0440	5.0	0511	5.6	0541	6.2	0602	6.1	**11** W ☽
	0949	1.2	1018	1.4	1024	1.5	1026	1.5	1049	1.5	1126	1.5	1157	1.3	
	1615	3.7	1632	4.1	1648	4.5	1701	4.9	1730	5.5	1801	6.0	1822	6.0	
	2221	1.2	2254	1.5	2255	1.6	2257	1.5	2316	1.5	2350	1.6			
12 TH	0445	3.5	0504	3.9	0519	4.3	0532	4.7	0600	5.3	0629	5.9	0019	1.4	**12** TH
	1054	1.3	1121	1.6	1124	1.7	1125	1.7	1143	1.7	1214	1.7	0649	5.8	
	1720	3.4	1744	3.9	1757	4.3	1808	4.6	1835	5.2	1902	5.8	1243	1.5	
	2343	1.4											1921	5.7	
13 F	0607	3.3	0012	1.7	0012	1.8	0011	1.8	0023	1.8	0049	1.9	0113	1.7	**13** F
	1240	1.4	0623	3.8	0636	4.2	0647	4.5	0714	5.1	0737	5.6	0754	5.6	
	1901	3.4	1307	1.6	1305	1.8	1301	1.8	1309	1.9	1328	2.0	1350	1.8	
			1922	3.8	1932	4.2	1945	4.6	2011	5.2	2036	5.7	2056	5.6	
14 SA	0133	1.4	0155	1.6	0200	1.8	0210	1.8	0227	1.9	0244	2.1	0300	2.0	**14** SA
	0744	3.4	0807	3.9	0816	4.3	0827	4.6	0850	5.2	0916	5.7	0937	5.6	
	1415	1.2	1447	1.4	1454	1.5	1504	1.6	1523	1.7	1549	1.8	1615	1.7	
	2032	3.6	2055	4.1	2104	4.5	2116	4.9	2143	5.5	2211	6.0	2231	6.0	
15 SU	0247	1.2	0318	1.4	0325	1.5	0339	1.5	0404	1.6	0430	1.7	0453	1.6	**15** SU
	0859	3.6	0921	4.2	0934	4.6	0948	5.0	1016	5.6	1044	6.1	1103	6.0	
	1525	0.9	1557	1.0	1607	1.1	1622	1.1	1651	1.2	1714	1.3	1738	1.2	
	2136	4.0	2205	4.4	2212	4.9	2225	5.3	2256	6.0	2324	6.6	2342	6.5	

SEPTEMBER 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
16	0345	1.0	0417	1.1	0427	1.3	0444	1.2	0517	1.2	0541	1.3	0608	1.2	**16**
M	0957	3.9	1016	4.4	1030	4.9	1047	5.4	1119	6.0	1149	6.6	1208	6.5	M
	1622	0.6	1652	0.7	1705	0.8	1726	0.8	1801	0.8	1829	0.9	1858	0.8	
	2228	4.2	2259	4.7	2305	5.2	2320	5.7	2352	6.4					
17	0433	0.8	0505	0.9	0517	1.0	0538	1.0	0616	1.0	0022	7.1	0040	7.0	**17**
TU	1045	4.2	1102	4.7	1118	5.2	1136	5.7	1209	6.4	0646	1.0	0718	0.9	TU
	1712	0.4	1739	0.5	1755	0.5	1820	0.5	1859	0.5	1241	7.0	1300	7.0	
	2314	4.5	2346	4.8	2352	5.5					1934	0.6	2002	0.4	
18	0517	0.7	0547	0.8	0603	0.9	0007	6.0	0041	6.8	0111	7.4	0131	7.3	**18**
W	1130	4.4	1144	4.9	1201	5.4	0627	0.8	0708	0.8	0744	0.8	0815	0.7	W
○	1757	0.2	1823	0.3	1841	0.4	1219	5.9	1253	6.6	1326	7.3	1346	7.2	○
	2358	4.6					1908	0.3	1949	0.3	2027	0.3	2055	0.2	
19	0559	0.6	0030	5.0	0036	5.6	0052	6.2	0125	6.9	0157	7.6	0217	7.5	**19**
TH	1213	4.5	0628	0.7	0646	0.8	0712	0.7	0755	0.7	0834	0.7	0905	0.6	TH
	1840	0.1	1225	5.0	1243	5.6	1302	6.1	1335	6.8	1409	7.5	1429	7.4	
			1905	0.3	1925	0.3	1952	0.2	2034	0.2	2113	0.2	2141	0.1	
20	0042	4.6	0114	5.0	0120	5.6	0135	6.3	0209	7.0	0240	7.7	0300	7.6	**20**
F	0641	0.6	0709	0.7	0728	0.7	0755	0.6	0838	0.7	0919	0.7	0949	0.5	F
	1256	4.6	1309	5.1	1325	5.7	1344	6.2	1417	6.9	1450	7.6	1510	7.5	
	1921	0.2	1946	0.3	2005	0.3	2033	0.3	2114	0.2	2154	0.2	2222	0.1	
21	0125	4.6	0156	4.9	0202	5.6	0218	6.2	0251	6.9	0322	7.6	0342	7.5	**21**
SA	0722	0.6	0750	0.7	0809	0.7	0835	0.7	0918	0.7	0958	0.7	1029	0.6	SA
	1339	4.6	1354	5.1	1409	5.7	1426	6.2	1459	6.9	1531	7.5	1551	7.5	
	2000	0.3	2025	0.4	2043	0.5	2109	0.4	2150	0.4	2228	0.4	2257	0.3	
22	0208	4.4	0237	4.8	0244	5.4	0300	6.0	0333	6.7	0403	7.4	0423	7.3	**22**
SU	0803	0.7	0830	0.8	0849	0.8	0912	0.8	0955	0.8	1032	0.8	1103	0.7	SU
	1422	4.5	1439	5.0	1452	5.5	1509	6.0	1542	6.7	1612	7.4	1632	7.3	
	2038	0.5	2103	0.7	2119	0.7	2141	0.7	2221	0.7	2256	0.7	2327	0.6	
23	0252	4.2	0315	4.6	0326	5.2	0342	5.7	0414	6.4	0444	7.0	0503	6.9	**23**
M	0845	0.8	0911	0.9	0929	0.9	0948	0.9	1027	0.9	1103	0.9	1134	0.8	M
	1507	4.3	1525	4.8	1538	5.3	1553	5.8	1625	6.4	1655	7.0	1715	7.0	
	2118	0.8	2142	1.0	2156	1.0	2212	1.0	2248	1.0	2321	1.1	2353	0.9	
24	0337	4.0	0354	4.4	0410	4.9	0425	5.3	0456	6.0	0525	6.6	0545	6.5	**24**
TU	0933	0.9	0958	1.1	1013	1.1	1026	1.1	1101	1.1	1134	1.2	1206	1.1	TU
☾	1557	4.1	1617	4.5	1630	5.0	1644	5.4	1714	6.0	1743	6.6	1803	6.6	☾
	2206	1.1	2230	1.3	2241	1.4	2250	1.4	2322	1.4	2352	1.4			
25	0429	3.7	0445	4.2	0501	4.6	0516	5.0	0544	5.6	0611	6.2	0025	1.3	**25**
W	1032	1.0	1100	1.3	1109	1.4	1117	1.3	1146	1.4	1215	1.4	0632	6.1	W
	1700	3.8	1724	4.2	1734	4.6	1748	5.0	1817	5.6	1842	6.2	1246	1.3	
	2314	1.4	2342	1.6	2345	1.7	2350	1.7					1903	6.2	
26	0536	3.5	0600	3.9	0610	4.3	0623	4.7	0017	1.8	0042	1.9	0112	1.7	**26**
TH	1154	1.1	1231	1.4	1232	1.5	1236	1.5	0648	5.3	0712	5.8	0731	5.7	TH
	1825	3.6	1852	4.0	1858	4.4	1910	4.8	1258	1.6	1321	1.7	1348	1.6	
									1936	5.4	2000	5.9	2020	5.8	
27	0047	1.5	0117	1.8	0118	1.9	0121	1.9	0138	2.0	0203	2.1	0226	2.0	**27**
F	0701	3.4	0729	3.9	0738	4.3	0751	4.6	0814	5.1	0836	5.6	0854	5.6	F
	1337	1.1	1405	1.4	1411	1.4	1417	1.5	1433	1.6	1458	1.7	1518	1.6	
	1958	3.6	2026	4.0	2031	4.5	2040	4.8	2103	5.4	2126	5.9	2144	5.9	
28	0218	1.5	0247	1.7	0253	1.8	0301	1.9	0321	2.0	0339	2.1	0357	2.0	**28**
SA	0827	3.5	0849	4.0	0900	4.4	0915	4.8	0943	5.4	1007	5.8	1023	5.8	SA
	1504	0.9	1528	1.1	1536	1.2	1550	1.2	1618	1.3	1633	1.4	1653	1.4	
	2112	3.8	2143	4.3	2147	4.7	2158	5.1	2225	5.7	2249	6.3	2305	6.2	
29	0323	1.3	0353	1.5	0359	1.6	0412	1.6	0443	1.6	0506	1.7	0530	1.6	**29**
SU	0930	3.8	0952	4.3	1002	4.7	1019	5.1	1049	5.7	1116	6.3	1133	6.2	SU
	1601	0.7	1626	0.9	1636	0.9	1652	0.9	1723	1.0	1749	1.0	1814	0.9	
	2204	4.0	2237	4.5	2241	5.0	2254	5.4	2323	6.1	2349	6.7			
30	0408	1.1	0438	1.3	0446	1.4	0501	1.3	0535	1.3	0603	1.4	0007	6.6	**30**
M	1016	4.0	1040	4.5	1049	5.0	1107	5.4	1138	6.0	1206	6.6	0628	1.2	M
	1642	0.6	1708	0.8	1719	0.8	1737	0.8	1810	0.8	1838	0.8	1224	6.5	
	2243	4.1	2318	4.5	2321	5.1	2335	5.6					1904	0.7	

OCTOBER 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
1 TU	0441	1.0	0512	1.2	0522	1.2	0539	1.2	0007	6.3	0034	6.9	0053	6.8	**1** TU
	1054	4.1	1115	4.6	1127	5.1	1144	5.5	0615	1.1	0646	1.2	0713	1.0	
	1714	0.5	1741	0.7	1752	0.7	1811	0.7	1217	6.2	1246	6.8	1305	6.8	
	2316	4.2	2348	4.6	2354	5.2			1846	0.7	1917	0.7	1944	0.6	
2 W ●	0511	0.9	0541	1.1	0554	1.1	0009	5.7	0042	6.3	0111	7.0	0131	6.9	**2** W ●
	1126	4.2	1142	4.7	1158	5.2	0612	1.1	0650	1.1	0722	1.1	0751	1.0	
	1742	0.5	1808	0.7	1821	0.7	1216	5.7	1249	6.3	1320	6.9	1340	6.9	
	2347	4.2					1841	0.7	1917	0.7	1949	0.7	2018	0.6	
3 TH	0541	0.8	0011	4.6	0023	5.2	0039	5.7	0112	6.4	0143	7.0	0204	7.0	**3** TH
	1156	4.3	0610	1.0	0625	1.0	0642	1.0	0721	1.0	0754	1.0	0825	0.9	
	1809	0.5	1209	4.8	1227	5.3	1245	5.8	1318	6.4	1350	7.0	1411	7.0	
			1835	0.7	1849	0.7	1908	0.7	1946	0.7	2018	0.7	2049	0.6	
4 F	0016	4.3	0034	4.7	0050	5.3	0107	5.8	0140	6.5	0211	7.1	0233	7.0	**4** F
	0611	0.8	0640	0.9	0655	1.0	0711	0.9	0750	1.0	0824	1.0	0855	0.9	
	1225	4.3	1239	4.8	1257	5.3	1315	5.8	1347	6.5	1419	7.1	1439	7.0	
	1837	0.5	1902	0.7	1916	0.7	1935	0.7	2013	0.7	2046	0.7	2117	0.6	
5 SA	0045	4.3	0102	4.7	0119	5.3	0135	5.8	0208	6.5	0238	7.1	0259	7.0	**5** SA
	0639	0.8	0709	0.9	0724	1.0	0739	0.9	0818	0.9	0853	0.9	0925	0.9	
	1255	4.3	1311	4.8	1328	5.3	1345	5.8	1417	6.5	1448	7.1	1507	7.0	
	1903	0.6	1929	0.7	1943	0.8	2002	0.7	2040	0.8	2113	0.8	2144	0.7	
6 SU	0113	4.2	0133	4.7	0147	5.2	0203	5.8	0236	6.5	0306	7.1	0325	7.0	**6** SU
	0707	0.8	0738	1.0	0752	1.0	0807	1.0	0845	1.0	0921	1.0	0953	0.9	
	1325	4.3	1343	4.7	1358	5.2	1415	5.7	1447	6.4	1518	7.0	1537	7.0	
	1928	0.7	1957	0.8	2010	0.9	2027	0.9	2104	0.9	2138	0.9	2209	0.8	
7 M	0141	4.2	0202	4.6	0216	5.1	0232	5.6	0305	6.3	0335	6.9	0354	6.9	**7** M
	0736	0.9	0806	1.0	0820	1.1	0834	1.1	0909	1.1	0947	1.1	1019	1.0	
	1356	4.1	1412	4.6	1428	5.1	1444	5.5	1518	6.2	1549	6.8	1608	6.8	
	1953	0.8	2025	1.0	2036	1.0	2051	1.0	2124	1.1	2159	1.1	2230	1.0	
8 TU	0211	4.0	0227	4.5	0243	5.0	0300	5.4	0334	6.1	0405	6.7	0424	6.7	**8** TU
	0806	0.9	0836	1.1	0848	1.2	0858	1.2	0929	1.2	1008	1.2	1040	1.1	
	1428	4.0	1438	4.4	1458	4.9	1515	5.4	1548	6.0	1621	6.6	1641	6.5	
	2022	0.9	2055	1.1	2103	1.2	2114	1.2	2143	1.2	2220	1.2	2251	1.1	
9 W	0244	3.9	0252	4.3	0314	4.8	0331	5.3	0404	5.9	0436	6.4	0456	6.4	**9** W
	0840	1.0	0911	1.2	0919	1.3	0924	1.3	0952	1.3	1031	1.3	1104	1.2	
	1506	3.9	1513	4.3	1535	4.8	1551	5.2	1624	5.8	1656	6.3	1718	6.3	
	2059	1.1	2133	1.3	2138	1.4	2143	1.4	2210	1.4	2248	1.4	2319	1.3	
10 TH ☽	0323	3.7	0332	4.2	0352	4.6	0408	5.0	0440	5.7	0511	6.2	0533	6.2	**10** TH ☽
	0925	1.1	0955	1.4	1001	1.4	1002	1.4	1027	1.4	1105	1.4	1136	1.3	
	1553	3.7	1607	4.1	1624	4.5	1638	5.0	1709	5.6	1741	6.1	1803	6.1	
	2151	1.3	2226	1.5	2228	1.6	2231	1.6	2252	1.6	2328	1.6	2357	1.5	
11 F	0414	3.5	0431	4.0	0446	4.4	0500	4.8	0530	5.4	0558	5.9	0620	5.9	**11** F
	1030	1.2	1101	1.5	1103	1.6	1103	1.6	1120	1.6	1152	1.6	1221	1.4	
	1656	3.5	1724	3.9	1734	4.3	1745	4.7	1813	5.3	1842	5.9	1902	5.8	
	2313	1.5	2342	1.7	2345	1.8	2350	1.9							
12 SA	0531	3.4	0551	3.8	0603	4.2	0614	4.6	0001	1.9	0027	1.9	0052	1.8	**12** SA
	1214	1.2	1243	1.5	1241	1.6	1241	1.7	0641	5.2	0706	5.7	0725	5.6	
	1831	3.5	1900	3.9	1907	4.3	1919	4.7	1245	1.8	1304	1.9	1326	1.7	
									1946	5.3	2010	5.8	2030	5.7	
13 SU	0100	1.4	0124	1.7	0128	1.8	0140	1.9	0202	2.0	0219	2.1	0236	2.0	**13** SU
	0710	3.4	0732	3.9	0741	4.3	0753	4.6	0817	5.2	0842	5.7	0901	5.6	
	1347	1.0	1419	1.3	1426	1.4	1437	1.4	1457	1.6	1523	1.7	1546	1.6	
	2005	3.7	2031	4.2	2037	4.6	2048	5.0	2115	5.6	2142	6.2	2202	6.1	
14 M	0215	1.2	0248	1.4	0254	1.6	0307	1.6	0333	1.6	0401	1.7	0423	1.6	**14** M
	0827	3.7	0848	4.2	0901	4.6	0915	5.0	0943	5.6	1011	6.1	1030	6.1	
	1456	0.8	1528	0.9	1538	1.0	1554	1.0	1623	1.1	1647	1.2	1709	1.1	
	2109	4.0	2139	4.5	2145	5.0	2158	5.5	2228	6.1	2255	6.7	2313	6.6	
15 TU	0313	1.0	0348	1.1	0357	1.3	0412	1.2	0445	1.2	0511	1.3	0537	1.2	**15** TU
	0926	4.0	0945	4.5	1000	5.0	1016	5.4	1048	6.0	1117	6.6	1136	6.6	
	1554	0.5	1624	0.7	1637	0.7	1658	0.7	1733	0.7	1800	0.8	1830	0.7	
	2202	4.3	2232	4.7	2239	5.3	2253	5.8	2326	6.5	2354	7.2			

OCTOBER 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
16	0403	0.8	0436	0.9	0449	1.0	0508	0.9	0545	0.9	0616	1.0	0013	7.1	**16**
W	1017	4.2	1033	4.7	1049	5.3	1106	5.7	1139	6.4	1211	7.0	0647	0.9	W
	1644	0.3	1712	0.5	1727	0.5	1752	0.5	1830	0.5	1905	0.5	1230	7.0	
	2248	4.5	2319	4.9	2326	5.5	2341	6.0					1935	0.4	
17	0449	0.7	0520	0.8	0536	0.9	0559	0.8	0015	6.8	0045	7.4	0104	7.4	**17**
TH	1102	4.4	1116	4.9	1133	5.5	1151	6.0	0639	0.8	0715	0.8	0747	0.8	TH
○	1730	0.2	1756	0.4	1814	0.4	1840	0.4	1225	6.7	1258	7.3	1318	7.3	○
	2333	4.6							1921	0.3	1959	0.4	2028	0.3	
18	0534	0.6	0003	4.9	0010	5.6	0025	6.2	0059	6.9	0130	7.6	0151	7.5	**18**
F	1147	4.6	0602	0.7	0621	0.8	0647	0.7	0729	0.7	0808	0.7	0839	0.7	F
	1814	0.2	1159	5.0	1216	5.6	1234	6.2	1309	6.8	1342	7.5	1402	7.5	
			1838	0.3	1857	0.4	1925	0.3	2006	0.3	2046	0.4	2114	0.2	
19	0016	4.6	0045	4.9	0053	5.6	0108	6.2	0142	6.9	0214	7.6	0234	7.5	**19**
SA	0618	0.6	0646	0.7	0705	0.7	0732	0.7	0815	0.7	0855	0.7	0925	0.6	SA
	1231	4.6	1246	5.1	1301	5.7	1318	6.2	1352	6.9	1425	7.6	1445	7.5	
	1855	0.3	1918	0.4	1937	0.5	2005	0.4	2046	0.5	2126	0.5	2155	0.3	
20	0100	4.5	0127	4.9	0135	5.5	0151	6.1	0225	6.8	0256	7.5	0316	7.4	**20**
SU	0701	0.6	0729	0.7	0748	0.7	0815	0.7	0857	0.7	0936	0.7	1006	0.6	SU
	1315	4.6	1335	5.0	1346	5.6	1402	6.2	1436	6.9	1508	7.5	1528	7.5	
	1934	0.5	1958	0.6	2015	0.7	2041	0.7	2122	0.7	2200	0.7	2230	0.6	
21	0143	4.4	0207	4.8	0217	5.3	0233	5.9	0307	6.6	0337	7.3	0357	7.2	**21**
M	0744	0.6	0812	0.8	0830	0.8	0854	0.8	0935	0.8	1012	0.8	1042	0.7	M
	1400	4.5	1423	4.9	1433	5.5	1448	6.0	1521	6.7	1552	7.3	1612	7.3	
	2011	0.8	2036	0.9	2051	0.9	2113	0.9	2152	1.0	2226	1.0	2259	0.9	
22	0226	4.2	0245	4.6	0259	5.1	0315	5.6	0348	6.3	0418	6.9	0437	6.8	**22**
TU	0828	0.7	0856	0.9	0912	0.9	0931	0.9	1009	1.0	1042	1.0	1113	0.9	TU
	1446	4.3	1511	4.7	1521	5.2	1535	5.7	1607	6.4	1637	7.0	1656	6.9	
	2050	1.0	2116	1.2	2129	1.3	2143	1.2	2218	1.3	2250	1.3	2324	1.2	
23	0311	3.9	0326	4.4	0342	4.8	0358	5.3	0429	5.9	0459	6.5	0518	6.4	**23**
W	0916	0.8	0945	1.1	0956	1.1	1009	1.1	1041	1.1	1112	1.2	1144	1.1	W
	1537	4.0	1603	4.4	1613	4.9	1627	5.3	1657	6.0	1725	6.5	1745	6.5	
	2137	1.3	2203	1.5	2213	1.6	2221	1.6	2251	1.6	2323	1.6	2356	1.5	
24	0401	3.7	0415	4.2	0432	4.6	0447	5.0	0515	5.5	0543	6.0	0602	6.0	**24**
TH	1014	1.0	1048	1.2	1052	1.3	1058	1.3	1124	1.4	1152	1.4	1222	1.3	TH
☾	1639	3.7	1706	4.1	1714	4.6	1729	5.0	1757	5.6	1822	6.1	1842	6.1	☾
	2241	1.5	2309	1.8	2312	1.9	2318	1.9	2344	1.9					
25	0505	3.5	0526	3.9	0537	4.3	0551	4.7	0616	5.2	0010	2.0	0041	1.9	**25**
F	1134	1.1	1210	1.4	1210	1.4	1213	1.5	1232	1.6	0639	5.7	0657	5.7	F
	1758	3.5	1829	4.0	1831	4.4	1844	4.8	1909	5.3	1253	1.7	1319	1.6	
											1934	5.8	1953	5.8	
26	0010	1.6	0042	1.9	0039	2.0	0042	2.1	0102	2.1	0123	2.3	0148	2.1	**26**
SA	0623	3.4	0654	3.9	0700	4.2	0714	4.6	0735	5.1	0759	5.5	0816	5.5	SA
	1305	1.0	1334	1.3	1339	1.4	1346	1.5	1402	1.6	1427	1.7	1447	1.6	
	1924	3.5	1953	4.0	1958	4.4	2006	4.8	2027	5.3	2051	5.9	2109	5.8	
27	0134	1.6	0208	1.8	0211	1.9	0216	2.0	0234	2.1	0258	2.2	0319	2.1	**27**
SU	0745	3.5	0807	4.0	0819	4.4	0834	4.7	0859	5.2	0923	5.7	0939	5.6	SU
	1425	0.9	1447	1.1	1455	1.2	1507	1.3	1529	1.4	1549	1.5	1607	1.4	
	2037	3.7	2104	4.2	2110	4.6	2120	5.0	2146	5.6	2207	6.1	2223	6.0	
28	0240	1.4	0312	1.6	0318	1.7	0328	1.7	0354	1.8	0418	1.9	0440	1.8	**28**
M	0851	3.7	0908	4.2	0921	4.6	0937	5.0	1007	5.6	1032	6.1	1048	6.0	M
	1523	0.8	1544	1.0	1553	1.1	1607	1.1	1636	1.1	1655	1.2	1717	1.1	
	2129	3.9	2157	4.3	2203	4.8	2215	5.3	2245	5.9	2310	6.5	2327	6.4	
29	0328	1.2	0359	1.4	0407	1.5	0418	1.5	0450	1.5	0517	1.5	0541	1.4	**29**
TU	0939	3.9	0956	4.4	1010	4.8	1026	5.3	1059	5.9	1126	6.4	1143	6.4	TU
	1603	0.7	1626	0.9	1636	0.9	1651	0.9	1722	0.9	1747	0.9	1813	0.9	
	2209	4.0	2237	4.5	2244	5.0	2258	5.5	2330	6.1	2357	6.7			
30	0404	1.1	0436	1.2	0445	1.3	0459	1.3	0532	1.3	0602	1.3	0016	6.7	**30**
W	1018	4.0	1035	4.5	1049	5.0	1106	5.4	1140	6.1	1209	6.7	0629	1.2	W
	1634	0.7	1700	0.8	1711	0.9	1726	0.8	1800	0.8	1828	0.8	1227	6.6	
	2243	4.1	2308	4.5	2318	5.1	2333	5.6					1856	0.8	
31	0438	1.0	0509	1.1	0520	1.2	0534	1.1	0006	6.2	0035	6.8	0055	6.8	**31**
TH	1051	4.1	1107	4.6	1124	5.1	1141	5.6	0610	1.1	0642	1.1	0710	1.1	TH
	1704	0.6	1731	0.8	1742	0.8	1759	0.8	1215	6.2	1246	6.8	1305	6.8	
	2314	4.2	2334	4.6	2348	5.2			1834	0.8	1905	0.8	1935	0.8	

NOVEMBER 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
1	0510	0.9	0541	1.0	0553	1.1	0004	5.7	0037	6.3	0108	6.9	0129	6.9	**1**
F	1123	4.2	1138	4.7	1156	5.2	0609	1.1	0646	1.1	0718	1.1	0748	1.0	F
●	1734	0.6	1800	0.8	1813	0.8	1213	5.7	1247	6.3	1318	6.9	1339	6.9	●
	2344	4.2					1831	0.8	1908	0.8	1940	0.8	2010	0.8	
2	0542	0.8	0001	4.7	0017	5.2	0034	5.7	0107	6.4	0137	7.0	0159	6.9	**2**
SA	1155	4.2	0612	1.0	0626	1.0	0642	1.0	0719	1.0	0752	1.0	0823	1.0	SA
	1803	0.7	1210	4.7	1228	5.2	1245	5.7	1318	6.4	1349	7.0	1410	7.0	
			1829	0.8	1843	0.8	1901	0.8	1938	0.8	2011	0.9	2043	0.8	
3	0013	4.2	0030	4.7	0046	5.2	0103	5.7	0136	6.4	0206	7.0	0227	7.0	**3**
SU	0613	0.8	0643	0.9	0657	1.0	0713	1.0	0750	1.0	0825	1.0	0857	1.0	SU
	1227	4.2	1244	4.7	1300	5.2	1317	5.7	1350	6.4	1420	7.0	1440	7.0	
	1831	0.7	1859	0.9	1912	0.9	1929	0.9	2006	0.9	2040	0.9	2113	0.9	
4	0044	4.2	0101	4.7	0117	5.2	0133	5.7	0207	6.4	0237	7.0	0256	6.9	**4**
M	0644	0.8	0715	1.0	0729	1.0	0743	1.0	0819	1.1	0855	1.0	0929	1.0	M
	1300	4.2	1318	4.6	1333	5.2	1350	5.7	1423	6.3	1454	6.9	1512	6.9	
	1857	0.8	1929	0.9	1941	1.0	1956	1.0	2031	1.0	2106	1.0	2140	1.0	
5	0115	4.1	0133	4.6	0148	5.1	0205	5.6	0239	6.3	0309	6.8	0328	6.8	**5**
TU	0715	0.8	0747	1.0	0800	1.1	0813	1.1	0846	1.1	0923	1.1	0958	1.1	TU
	1334	4.1	1353	4.5	1407	5.0	1423	5.5	1457	6.2	1528	6.8	1547	6.8	
	1926	0.9	2001	1.1	2010	1.1	2024	1.1	2057	1.1	2133	1.1	2206	1.1	
6	0149	4.0	0203	4.5	0220	5.0	0237	5.5	0311	6.1	0343	6.7	0402	6.7	**6**
W	0749	0.9	0822	1.1	0832	1.1	0843	1.1	0913	1.2	0950	1.2	1023	1.1	W
	1411	4.0	1427	4.4	1443	4.9	1459	5.4	1533	6.0	1605	6.6	1625	6.6	
	2001	1.0	2036	1.2	2044	1.2	2056	1.2	2127	1.3	2203	1.3	2234	1.2	
7	0225	3.9	0235	4.3	0254	4.8	0311	5.3	0345	5.9	0417	6.4	0437	6.4	**7**
TH	0828	0.9	0901	1.1	0909	1.2	0917	1.2	0943	1.3	1020	1.3	1051	1.2	TH
	1452	3.9	1509	4.3	1524	4.8	1540	5.2	1613	5.9	1645	6.4	1706	6.4	
	2044	1.1	2119	1.3	2125	1.4	2135	1.4	2203	1.4	2239	1.4	2308	1.3	
8	0306	3.8	0318	4.2	0335	4.7	0351	5.1	0424	5.7	0455	6.2	0517	6.2	**8**
F	0917	1.0	0951	1.2	0956	1.3	1000	1.3	1023	1.4	1058	1.4	1127	1.3	F
	1542	3.8	1605	4.1	1616	4.6	1630	5.1	1702	5.7	1733	6.2	1754	6.2	
	2139	1.3	2213	1.5	2219	1.6	2228	1.6	2250	1.6	2323	1.6	2351	1.5	
9	0359	3.6	0416	4.1	0430	4.5	0443	4.9	0514	5.5	0543	6.0	0605	6.0	**9**
SA	1023	1.0	1056	1.3	1058	1.4	1101	1.4	1116	1.5	1147	1.5	1214	1.4	SA
☽	1644	3.6	1716	4.0	1723	4.5	1735	4.9	1805	5.5	1833	6.1	1853	6.0	☽
	2254	1.4	2322	1.6	2330	1.7	2342	1.8							
10	0509	3.5	0529	4.0	0541	4.4	0553	4.8	0000	1.8	0024	1.9	0048	1.8	**10**
SU	1154	1.0	1223	1.3	1225	1.4	1231	1.5	0621	5.3	0647	5.8	0706	5.8	SU
	1807	3.6	1838	4.0	1844	4.5	1857	4.9	1242	1.6	1256	1.6	1319	1.6	
									1926	5.5	1952	6.0	2012	6.0	
11	0023	1.4	0049	1.6	0054	1.7	0109	1.7	0136	1.8	0157	1.9	0219	1.9	**11**
M	0634	3.5	0655	4.0	0705	4.4	0719	4.8	0746	5.4	0811	5.9	0829	5.8	M
	1317	0.9	1348	1.1	1354	1.2	1406	1.3	1428	1.4	1454	1.5	1518	1.4	
	1931	3.8	1959	4.2	2004	4.7	2017	5.1	2045	5.8	2114	6.3	2133	6.3	
12	0138	1.2	0211	1.4	0216	1.5	0229	1.5	0257	1.6	0327	1.7	0350	1.6	**12**
TU	0750	3.7	0810	4.3	0822	4.7	0838	5.1	0906	5.7	0936	6.2	0955	6.1	TU
	1425	0.7	1456	0.9	1505	0.9	1521	1.0	1547	1.1	1615	1.1	1637	1.1	
	2037	4.0	2106	4.5	2112	5.0	2126	5.4	2156	6.1	2224	6.7	2242	6.6	
13	0239	1.1	0313	1.2	0322	1.3	0336	1.3	0407	1.3	0438	1.3	0502	1.3	**13**
W	0853	4.0	0911	4.5	0925	4.9	0942	5.4	1013	6.0	1044	6.6	1103	6.5	W
	1524	0.5	1553	0.7	1605	0.7	1625	0.7	1658	0.8	1725	0.8	1752	0.8	
	2133	4.2	2202	4.7	2210	5.2	2224	5.7	2257	6.4	2325	7.0	2343	7.0	
14	0333	0.9	0405	1.0	0418	1.1	0435	1.0	0512	1.1	0543	1.1	0613	1.1	**14**
TH	0948	4.2	1003	4.7	1019	5.2	1036	5.7	1109	6.3	1141	6.9	1201	6.9	TH
	1617	0.4	1643	0.6	1658	0.6	1721	0.6	1759	0.6	1832	0.7	1903	0.6	
	2222	4.3	2251	4.8	2259	5.3	2314	5.9	2348	6.6					
15	0423	0.8	0453	0.9	0509	0.9	0530	0.9	0610	0.9	0018	7.2	0038	7.2	**15**
F	1037	4.4	1051	4.8	1108	5.4	1125	5.9	1159	6.5	0645	0.9	0717	0.9	F
○	1705	0.4	1729	0.5	1746	0.6	1811	0.6	1851	0.6	1231	7.2	1252	7.1	○
	2309	4.4	2336	4.8	2345	5.4					1928	0.6	1958	0.5	

NOVEMBER 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
16	0512	0.7	0540	0.8	0558	0.8	0000	6.0	0035	6.7	0105	7.3	0126	7.3	**16**
	1124	4.5	1140	4.9	1155	5.5	0622	0.8	0704	0.8	0742	0.8	0813	0.8	
SA	1749	0.4	1812	0.6	1831	0.6	1211	6.0	1246	6.7	1318	7.3	1339	7.3	SA
	2354	4.4					1858	0.6	1938	0.6	2017	0.7	2046	0.6	
17	0600	0.6	0019	4.8	0029	5.4	0044	6.0	0119	6.7	0150	7.3	0211	7.3	**17**
	1210	4.5	0627	0.7	0646	0.7	0712	0.7	0754	0.7	0832	0.8	0902	0.7	
SU	1832	0.6	1231	5.0	1242	5.5	1258	6.1	1332	6.8	1404	7.4	1425	7.4	SU
			1855	0.7	1913	0.7	1940	0.7	2020	0.7	2059	0.8	2129	0.7	
18	0038	4.4	0101	4.8	0112	5.3	0128	5.9	0202	6.6	0233	7.3	0254	7.2	**18**
	0647	0.6	0714	0.7	0732	0.7	0758	0.7	0839	0.7	0917	0.8	0947	0.7	
M	1256	4.5	1322	4.9	1330	5.5	1345	6.0	1419	6.7	1450	7.4	1510	7.3	M
	1912	0.7	1937	0.8	1953	0.9	2018	0.9	2058	0.9	2135	1.0	2206	0.9	
19	0122	4.3	0143	4.7	0155	5.2	0211	5.8	0245	6.5	0316	7.1	0336	7.0	**19**
	0733	0.6	0801	0.7	0818	0.7	0841	0.8	0921	0.8	0955	0.8	1026	0.8	
TU	1343	4.4	1411	4.8	1418	5.3	1432	5.9	1506	6.6	1536	7.2	1556	7.1	TU
	1951	0.9	2018	1.1	2031	1.1	2051	1.1	2130	1.1	2203	1.2	2237	1.1	
20	0206	4.1	0223	4.6	0238	5.1	0254	5.6	0328	6.2	0358	6.8	0417	6.7	**20**
	0818	0.7	0848	0.8	0901	0.9	0920	0.9	0957	0.9	1028	1.0	1100	0.9	
W	1430	4.2	1459	4.6	1507	5.1	1521	5.6	1554	6.3	1623	6.9	1642	6.8	W
	2029	1.1	2058	1.3	2109	1.3	2122	1.4	2157	1.4	2228	1.4	2304	1.4	
21	0250	3.9	0304	4.4	0321	4.9	0337	5.3	0410	5.9	0439	6.4	0457	6.4	**21**
	0905	0.8	0937	1.0	0946	1.0	0958	1.0	1029	1.1	1058	1.1	1130	1.1	
TH	1519	4.0	1547	4.3	1556	4.8	1611	5.3	1643	6.0	1710	6.5	1729	6.5	TH
	2113	1.3	2142	1.5	2151	1.6	2159	1.6	2230	1.6	2302	1.6	2335	1.6	
22	0337	3.8	0350	4.2	0407	4.6	0423	5.0	0453	5.6	0521	6.1	0539	6.1	**22**
	0958	0.8	1032	1.1	1035	1.1	1041	1.2	1107	1.3	1135	1.3	1205	1.3	
F	1615	3.7	1642	4.1	1650	4.6	1705	5.0	1736	5.7	1802	6.2	1821	6.1	F
	2206	1.5	2234	1.7	2240	1.8	2246	1.8	2314	1.8	2344	1.9			
23	0431	3.6	0446	4.0	0501	4.5	0517	4.8	0545	5.3	0608	5.8	0015	1.8	**23**
	1102	0.9	1136	1.2	1136	1.3	1141	1.3	1202	1.4	1225	1.5	0626	5.8	
SA	1719	3.5	1749	4.0	1752	4.4	1806	4.8	1835	5.4	1901	5.9	1251	1.4	SA
☾	2316	1.6	2343	1.8	2343	1.9	2349	1.9					1920	5.9	☾
24	0534	3.5	0602	3.9	0608	4.3	0623	4.7	0014	2.0	0039	2.1	0106	2.0	**24**
	1214	1.0	1245	1.3	1248	1.3	1255	1.4	0649	5.2	0711	5.7	0728	5.6	
SU	1829	3.5	1901	3.9	1903	4.3	1914	4.7	1314	1.5	1335	1.6	1400	1.5	SU
									1937	5.3	2005	5.8	2024	5.8	
25	0035	1.6	0107	1.8	0104	1.9	0108	2.0	0128	2.0	0148	2.2	0214	2.1	**25**
	0641	3.4	0714	3.9	0720	4.3	0735	4.7	0758	5.2	0825	5.7	0844	5.6	
M	1320	1.0	1350	1.2	1356	1.3	1404	1.3	1425	1.4	1452	1.5	1515	1.5	M
	1938	3.5	2005	4.0	2012	4.4	2021	4.8	2043	5.4	2109	5.9	2127	5.9	
26	0140	1.5	0215	1.7	0219	1.8	0223	1.9	0245	1.9	0311	2.1	0337	2.0	**26**
	0748	3.5	0814	4.0	0826	4.4	0840	4.8	0906	5.3	0933	5.8	0951	5.8	
TU	1418	0.9	1445	1.1	1454	1.2	1503	1.2	1527	1.3	1555	1.4	1617	1.3	TU
	2038	3.7	2059	4.1	2110	4.5	2121	5.0	2147	5.6	2211	6.1	2227	6.1	
27	0234	1.3	0309	1.5	0316	1.6	0322	1.7	0348	1.7	0418	1.8	0443	1.8	**27**
	0847	3.6	0906	4.2	0920	4.6	0936	5.0	1005	5.6	1033	6.1	1050	6.1	
W	1507	0.8	1533	1.1	1542	1.1	1553	1.1	1621	1.2	1650	1.2	1712	1.2	W
	2125	3.8	2145	4.3	2157	4.7	2210	5.1	2239	5.8	2306	6.3	2323	6.3	
28	0321	1.2	0354	1.4	0402	1.4	0411	1.4	0441	1.5	0512	1.6	0538	1.5	**28**
	0934	3.8	0952	4.3	1007	4.8	1023	5.2	1055	5.8	1124	6.3	1142	6.3	
TH	1548	0.8	1615	1.0	1625	1.1	1637	1.0	1709	1.1	1739	1.1	1803	1.1	TH
	2204	3.9	2224	4.4	2237	4.8	2251	5.3	2323	6.0	2351	6.5			
29	0402	1.1	0434	1.2	0444	1.3	0455	1.3	0528	1.3	0559	1.4	0010	6.5	**29**
	1014	3.9	1033	4.4	1048	4.9	1105	5.3	1138	6.0	1208	6.5	0626	1.3	
F	1626	0.8	1653	1.0	1704	1.0	1719	1.0	1753	1.0	1824	1.0	1227	6.5	F
	2240	4.0	2258	4.5	2313	5.0	2328	5.4					1851	1.0	
30	0440	0.9	0512	1.1	0523	1.1	0537	1.2	0001	6.1	0030	6.7	0051	6.6	**30**
	1052	4.0	1110	4.5	1126	5.0	1143	5.5	0611	1.2	0643	1.2	0711	1.2	
SA	1702	0.8	1729	1.0	1741	1.0	1758	1.0	1216	6.1	1247	6.7	1307	6.7	SA
	2314	4.1	2331	4.5	2347	5.0			1833	1.0	1904	1.0	1934	1.0	

DECEMBER 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
1 SU ●	0517	0.9	0548	1.0	0601	1.1	0003	5.5	0036	6.2	0106	6.8	0127	6.7	**1** SU ●
	1129	4.1	1146	4.5	1202	5.0	0616	1.1	0651	1.1	0724	1.1	0754	1.1	
	1736	0.8	1803	1.0	1816	1.0	1219	5.5	1253	6.2	1324	6.8	1344	6.7	
	2347	4.1					1834	1.0	1909	1.1	1941	1.1	2013	1.0	
2 M	0553	0.8	0004	4.6	0020	5.1	0037	5.6	0111	6.2	0141	6.8	0201	6.8	**2** M
	1205	4.1	0624	1.0	0638	1.0	0653	1.1	0728	1.1	0802	1.1	0835	1.1	
	1807	0.8	1223	4.5	1239	5.1	1255	5.6	1329	6.2	1400	6.8	1420	6.8	
			1836	1.0	1849	1.0	1905	1.0	1940	1.1	2014	1.1	2050	1.1	
3 TU	0022	4.1	0038	4.6	0055	5.1	0112	5.6	0147	6.2	0217	6.8	0237	6.8	**3** TU
	0629	0.8	0700	0.9	0714	1.0	0729	1.0	0803	1.1	0838	1.1	0913	1.0	
	1242	4.1	1302	4.5	1316	5.1	1333	5.6	1406	6.2	1438	6.8	1457	6.8	
	1839	0.9	1910	1.0	1922	1.0	1936	1.1	2010	1.1	2046	1.1	2124	1.1	
4 W	0059	4.1	0114	4.6	0131	5.1	0148	5.5	0223	6.2	0254	6.7	0313	6.7	**4** W
	0706	0.8	0738	0.9	0750	1.0	0804	1.0	0836	1.1	0911	1.1	0950	1.0	
	1321	4.1	1344	4.5	1356	5.0	1412	5.6	1445	6.2	1517	6.8	1536	6.8	
	1913	0.9	1947	1.0	1957	1.1	2011	1.1	2044	1.1	2120	1.1	2157	1.1	
5 TH	0137	4.0	0151	4.5	0208	5.0	0225	5.5	0300	6.1	0331	6.6	0351	6.6	**5** TH
	0746	0.8	0818	0.9	0829	1.0	0842	1.0	0911	1.1	0945	1.1	1022	1.1	
	1401	4.1	1427	4.4	1437	5.0	1453	5.5	1526	6.1	1558	6.7	1617	6.7	
	1953	1.0	2028	1.1	2037	1.2	2051	1.2	2123	1.2	2158	1.2	2231	1.2	
6 F	0217	4.0	0231	4.4	0246	4.9	0304	5.3	0338	6.0	0410	6.5	0429	6.5	**6** F
	0829	0.8	0902	1.0	0911	1.0	0923	1.1	0950	1.1	1021	1.1	1054	1.1	
	1446	4.0	1514	4.3	1522	4.9	1537	5.4	1610	6.0	1641	6.6	1701	6.6	
	2038	1.1	2113	1.2	2122	1.3	2136	1.3	2207	1.3	2240	1.3	2310	1.3	
7 SA	0300	3.9	0314	4.3	0329	4.8	0346	5.2	0419	5.8	0450	6.3	0510	6.3	**7** SA
	0919	0.8	0952	1.0	0959	1.1	1010	1.1	1033	1.2	1102	1.2	1132	1.1	
	1535	3.9	1605	4.3	1613	4.8	1627	5.3	1659	5.9	1729	6.5	1749	6.5	
	2131	1.2	2203	1.3	2213	1.4	2228	1.4	2256	1.4	2326	1.5	2355	1.4	
8 SU ☽	0350	3.8	0406	4.3	0420	4.7	0435	5.1	0506	5.7	0536	6.2	0556	6.2	**8** SU ☽
	1019	0.8	1050	1.0	1056	1.1	1105	1.1	1126	1.2	1150	1.3	1218	1.2	
	1633	3.8	1704	4.2	1712	4.7	1725	5.2	1757	5.8	1825	6.3	1844	6.3	
	2234	1.3	2301	1.4	2312	1.5	2326	1.5	2355	1.6					
9 M	0449	3.7	0505	4.2	0520	4.6	0534	5.0	0604	5.6	0022	1.6	0049	1.6	**9** M
	1130	0.8	1159	1.0	1203	1.1	1214	1.2	1237	1.3	0631	6.2	0650	6.1	
	1742	3.8	1811	4.2	1818	4.7	1832	5.1	1904	5.8	1253	1.3	1321	1.3	
	2345	1.3									1931	6.3	1951	6.3	
10 TU	0559	3.7	0009	1.5	0019	1.5	0034	1.6	0105	1.6	0131	1.7	0157	1.6	**10** TU
	1244	0.8	0616	4.2	0630	4.6	0644	5.0	0715	5.6	0739	6.1	0757	6.1	
	1855	3.8	1313	1.0	1318	1.0	1330	1.1	1355	1.2	1420	1.3	1448	1.3	
			1923	4.2	1929	4.7	1943	5.2	2013	5.8	2043	6.4	2103	6.3	
11 W	0057	1.2	0127	1.4	0133	1.5	0147	1.5	0217	1.5	0247	1.6	0314	1.6	**11** W
	0712	3.8	0730	4.3	0743	4.7	0800	5.1	0830	5.7	0900	6.2	0920	6.2	
	1352	0.7	1420	0.9	1429	0.9	1443	1.0	1508	1.1	1538	1.2	1602	1.1	
	2003	3.9	2031	4.3	2038	4.8	2052	5.3	2122	5.9	2151	6.5	2210	6.5	
12 TH	0204	1.1	0237	1.3	0245	1.4	0257	1.4	0328	1.4	0401	1.5	0428	1.4	**12** TH
	0821	3.9	0837	4.4	0851	4.8	0909	5.3	0940	5.9	1011	6.4	1031	6.4	
	1454	0.6	1521	0.8	1533	0.9	1549	0.9	1620	1.0	1648	1.0	1713	1.0	
	2104	4.0	2132	4.4	2140	4.9	2155	5.4	2227	6.1	2256	6.7	2315	6.7	
13 F	0305	1.0	0336	1.1	0349	1.2	0404	1.2	0438	1.2	0511	1.3	0540	1.2	**13** F
	0922	4.0	0938	4.5	0953	5.0	1010	5.5	1043	6.1	1115	6.6	1134	6.7	
	1552	0.6	1616	0.8	1631	0.8	1651	0.8	1727	0.9	1758	1.0	1829	0.9	
	2200	4.1	2226	4.5	2236	5.0	2251	5.5	2324	6.2	2354	6.8			
14 SA	0403	0.8	0432	1.0	0448	1.0	0506	1.0	0545	1.0	0619	1.1	0014	6.8	**14** SA
	1018	4.2	1036	4.6	1050	5.1	1106	5.6	1139	6.3	1211	6.8	0651	1.0	
	1644	0.6	1707	0.8	1723	0.8	1746	0.8	1824	0.9	1900	0.9	1232	6.8	
	2250	4.2	2316	4.6	2327	5.1	2342	5.6					1931	0.8	
15 SU ○	0458	0.7	0525	0.8	0542	0.8	0604	0.8	0015	6.3	0046	6.9	0106	6.9	**15** SU ○
	1109	4.3	1132	4.7	1143	5.2	1157	5.8	0644	0.9	0720	0.9	0752	0.9	
	1732	0.7	1755	0.8	1811	0.8	1835	0.8	1231	6.4	1302	7.0	1323	7.0	
	2337	4.2							1915	0.9	1953	0.9	2022	0.8	

DECEMBER 2024

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
16	0550	0.6	0002	4.6	0013	5.2	0028	5.7	0102	6.3	0133	7.0	0154	7.0	**16**
M	1157	4.3	0616	0.7	0634	0.7	0658	0.7	0738	0.8	0815	0.8	0845	0.7	M
	1816	0.8	1225	4.7	1233	5.3	1246	5.8	1320	6.5	1351	7.1	1412	7.1	
			1840	0.9	1856	0.9	1921	0.9	2000	0.9	2038	1.0	2108	0.9	
17	0023	4.2	0044	4.7	0057	5.2	0113	5.7	0147	6.4	0218	7.0	0238	6.9	**17**
TU	0640	0.5	0707	0.7	0724	0.7	0748	0.7	0827	0.7	0904	0.8	0933	0.7	TU
	1244	4.3	1314	4.7	1321	5.3	1335	5.8	1408	6.5	1439	7.1	1459	7.1	
	1858	0.8	1922	1.0	1938	1.0	2001	1.0	2041	1.1	2118	1.1	2149	1.0	
18	0107	4.2	0125	4.6	0140	5.1	0156	5.7	0230	6.3	0301	6.9	0321	6.8	**18**
W	0728	0.5	0755	0.7	0810	0.7	0834	0.7	0912	0.7	0947	0.8	1017	0.7	W
	1329	4.3	1400	4.6	1408	5.2	1422	5.8	1456	6.4	1525	7.1	1545	7.0	
	1936	1.0	2003	1.1	2017	1.1	2036	1.1	2115	1.2	2149	1.2	2224	1.2	
19	0150	4.1	0205	4.6	0222	5.1	0238	5.5	0313	6.2	0343	6.8	0401	6.7	**19**
TH	0812	0.6	0840	0.7	0853	0.7	0914	0.8	0950	0.8	1023	0.9	1055	0.8	TH
	1415	4.1	1444	4.5	1453	5.1	1507	5.6	1541	6.3	1610	6.9	1630	6.8	
	2013	1.1	2041	1.2	2053	1.3	2107	1.3	2143	1.3	2216	1.4	2252	1.3	
20	0231	4.0	0245	4.5	0302	5.0	0319	5.4	0353	6.0	0422	6.6	0440	6.5	**20**
F	0853	0.6	0923	0.8	0933	0.8	0948	0.9	1021	0.9	1051	1.0	1124	0.9	F
	1500	4.0	1526	4.4	1536	4.9	1552	5.4	1626	6.0	1654	6.6	1712	6.6	
	2049	1.2	2119	1.3	2129	1.4	2138	1.4	2211	1.4	2245	1.4	2319	1.4	
21	0312	3.9	0325	4.4	0343	4.8	0359	5.2	0432	5.8	0500	6.3	0517	6.3	**21**
SA	0934	0.7	1005	0.9	1012	0.9	1021	1.0	1050	1.0	1120	1.1	1151	1.1	SA
	1545	3.8	1609	4.2	1620	4.7	1636	5.2	1709	5.8	1736	6.4	1754	6.3	
	2129	1.3	2158	1.4	2207	1.5	2215	1.5	2247	1.5	2320	1.6	2351	1.5	
22	0354	3.8	0407	4.3	0425	4.7	0440	5.1	0511	5.6	0537	6.1	0554	6.1	**22**
SU	1019	0.8	1050	1.0	1054	1.1	1100	1.1	1127	1.1	1155	1.2	1223	1.2	SU
☾	1634	3.6	1655	4.0	1706	4.5	1722	5.0	1754	5.6	1819	6.1	1838	6.1	☾
	2216	1.4	2243	1.6	2251	1.6	2259	1.6	2328	1.6	2359	1.7			
23	0442	3.6	0455	4.1	0511	4.5	0526	4.9	0556	5.5	0619	6.0	0028	1.6	**23**
M	1112	0.9	1140	1.1	1143	1.2	1149	1.2	1213	1.3	1238	1.4	0636	5.9	M
	1727	3.5	1750	3.9	1757	4.3	1811	4.8	1842	5.4	1907	6.0	1304	1.3	
	2314	1.5	2336	1.7	2342	1.8	2350	1.8					1927	5.9	
24	0537	3.5	0554	4.0	0606	4.4	0621	4.7	0017	1.8	0045	1.9	0110	1.8	**24**
TU	1211	1.0	1239	1.2	1241	1.3	1249	1.3	0651	5.3	0713	5.8	0731	5.8	TU
	1824	3.4	1853	3.8	1855	4.3	1907	4.7	1310	1.4	1331	1.5	1356	1.5	
									1934	5.3	2001	5.8	2023	5.8	
25	0026	1.5	0047	1.8	0047	1.8	0052	1.9	0114	1.9	0138	2.0	0201	2.0	**25**
W	0637	3.5	0706	3.9	0712	4.3	0726	4.6	0754	5.2	0821	5.7	0843	5.7	W
	1310	1.0	1340	1.3	1345	1.4	1354	1.4	1416	1.5	1439	1.6	1507	1.6	
	1923	3.4	1955	3.9	1958	4.3	2008	4.7	2032	5.3	2059	5.8	2120	5.8	
26	0133	1.4	0204	1.7	0206	1.8	0209	1.8	0225	1.9	0244	2.0	0311	2.0	**26**
TH	0741	3.5	0810	3.9	0819	4.3	0834	4.7	0900	5.3	0929	5.8	0950	5.8	TH
	1408	1.0	1437	1.3	1445	1.3	1456	1.4	1521	1.4	1549	1.6	1615	1.5	
	2024	3.5	2051	4.0	2059	4.4	2109	4.8	2133	5.4	2159	5.9	2219	5.9	
27	0233	1.3	0305	1.5	0312	1.6	0318	1.7	0340	1.7	0408	1.9	0439	1.9	**27**
F	0843	3.6	0907	4.0	0920	4.4	0935	4.8	1003	5.4	1032	6.0	1051	6.0	F
	1502	1.0	1530	1.2	1540	1.3	1552	1.3	1620	1.4	1649	1.4	1715	1.4	
	2119	3.7	2141	4.1	2153	4.5	2205	5.0	2233	5.6	2259	6.1	2318	6.1	
28	0326	1.2	0358	1.4	0408	1.4	0417	1.5	0444	1.5	0515	1.6	0542	1.6	**28**
SA	0938	3.7	0959	4.2	1013	4.6	1028	5.0	1100	5.6	1129	6.2	1148	6.2	SA
	1552	0.9	1619	1.1	1630	1.2	1644	1.2	1715	1.3	1744	1.3	1810	1.3	
	2206	3.8	2227	4.3	2240	4.7	2254	5.1	2325	5.8	2353	6.3			
29	0415	1.0	0446	1.2	0457	1.2	0509	1.3	0540	1.3	0610	1.4	0013	6.3	**29**
SU	1026	3.8	1046	4.3	1100	4.7	1116	5.2	1149	5.8	1219	6.4	0637	1.3	SU
	1637	0.9	1704	1.1	1715	1.1	1732	1.2	1804	1.2	1834	1.3	1239	6.4	
	2248	3.9	2307	4.4	2322	4.8	2337	5.3					1902	1.2	
30	0500	0.9	0530	1.1	0542	1.1	0558	1.1	0011	5.9	0040	6.5	0101	6.5	**30**
M	1108	3.9	1129	4.3	1143	4.8	1159	5.3	0630	1.2	0700	1.2	0730	1.2	M
●	1717	0.9	1744	1.1	1757	1.1	1814	1.1	1233	6.0	1304	6.6	1324	6.5	●
	2328	4.0	2345	4.4					1848	1.2	1919	1.2	1951	1.2	
31	0542	0.8	0612	1.0	0002	4.9	0018	5.4	0053	6.0	0124	6.6	0144	6.6	**31**
TU	1149	4.0	1211	4.4	0625	1.0	0643	1.0	0717	1.1	0748	1.1	0820	1.1	TU
	1754	0.9	1822	1.0	1224	5.0	1240	5.5	1315	6.1	1346	6.7	1407	6.7	
					1835	1.1	1852	1.1	1927	1.1	2000	1.2	2037	1.1	

JANUARY 2025

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE		MARGATE		SHIVERING SAND		SOUTHEND -ON-SEA		TILBURY		NORTH WOOLWICH		LONDON BRIDGE (TOWER PIER)		
	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	Time	m	
1	0008	4.1	0022	4.5	0041	5.0	0058	5.5	0134	6.1	0205	6.7	0225	6.7	**1**
W	0623	0.7	0652	0.8	0707	0.9	0725	0.9	0801	1.0	0833	1.1	0908	1.0	W
	1230	4.1	1253	4.5	1306	5.1	1322	5.6	1356	6.2	1428	6.8	1448	6.8	
	1830	0.8	1900	1.0	1913	1.0	1929	1.0	2004	1.1	2040	1.1	2120	1.1	
2	0049	4.1	0101	4.6	0120	5.1	0138	5.6	0213	6.2	0246	6.8	0305	6.7	**2**
TH	0705	0.6	0734	0.8	0748	0.8	0807	0.8	0843	0.9	0917	1.0	0954	0.9	TH
	1312	4.2	1338	4.6	1348	5.1	1404	5.7	1438	6.3	1510	6.9	1530	6.9	
	1908	0.8	1939	0.9	1952	1.0	2008	1.0	2043	1.0	2120	1.0	2201	1.0	
3	0130	4.1	0141	4.6	0200	5.1	0218	5.6	0253	6.2	0325	6.8	0344	6.7	**3**
F	0747	0.6	0816	0.7	0830	0.7	0849	0.8	0925	0.8	0959	0.9	1038	0.8	F
	1354	4.2	1423	4.6	1432	5.1	1447	5.7	1521	6.4	1552	7.0	1612	6.9	
	1948	0.8	2020	0.9	2033	1.0	2049	1.0	2125	1.0	2202	1.0	2241	1.0	
4	0211	4.1	0222	4.6	0240	5.1	0258	5.5	0333	6.2	0404	6.7	0423	6.7	**4**
SA	0830	0.5	0859	0.7	0912	0.7	0931	0.7	1006	0.8	1038	0.8	1117	0.8	SA
	1439	4.2	1509	4.5	1516	5.1	1532	5.6	1605	6.3	1636	6.9	1655	6.9	
	2031	0.9	2103	1.0	2116	1.0	2133	1.0	2208	1.0	2243	1.1	2318	1.1	
5	0253	4.0	0305	4.6	0321	5.0	0339	5.5	0413	6.1	0443	6.7	0502	6.7	**5**
SU	0915	0.5	0944	0.7	0956	0.7	1013	0.8	1047	0.8	1115	0.9	1151	0.8	SU
	1525	4.1	1555	4.4	1603	5.0	1618	5.5	1652	6.2	1721	6.8	1740	6.8	
	2117	1.0	2147	1.1	2201	1.1	2217	1.1	2252	1.1	2325	1.1	2357	1.1	
6	0338	4.0	0350	4.5	0406	5.0	0422	5.4	0455	6.0	0525	6.6	0544	6.6	**6**
M	1004	0.6	1032	0.7	1042	0.8	1057	0.8	1129	0.9	1154	0.9	1228	0.9	M
☽	1616	4.0	1643	4.3	1653	4.9	1708	5.4	1741	6.0	1810	6.6	1829	6.6	☽
	2209	1.1	2235	1.2	2249	1.2	2304	1.2	2337	1.3					
7	0428	3.9	0440	4.4	0457	4.9	0512	5.3	0543	5.9	0009	1.3	0040	1.3	**7**
TU	1101	0.6	1126	0.8	1135	0.9	1147	0.9	1217	1.0	0611	6.5	0630	6.5	TU
	1715	3.8	1739	4.2	1749	4.7	1805	5.2	1837	5.9	1241	1.0	1313	1.0	
	2308	1.1	2330	1.3	2345	1.3	2358	1.3			1905	6.5	1925	6.4	

8	0527	3.9	0540	4.3	0557	4.8	0611	5.2	0030	1.4	0101	1.4	0131	1.4	**8**
W	1206	0.7	1232	0.9	1238	1.0	1249	1.0	0642	5.8	0708	6.3	0727	6.3	W
	1820	3.7	1845	4.1	1853	4.6	1908	5.1	1316	1.1	1342	1.2	1414	1.1	
									1940	5.8	2009	6.3	2030	6.3	
9	0017	1.2	0042	1.4	0052	1.4	0104	1.4	0135	1.5	0205	1.6	0236	1.5	**9**
TH	0637	3.8	0653	4.3	0708	4.7	0723	5.1	0755	5.7	0822	6.2	0844	6.2	TH
	1317	0.8	1344	1.0	1350	1.1	1401	1.1	1425	1.2	1456	1.3	1524	1.2	
	1930	3.7	1956	4.1	2004	4.6	2018	5.0	2048	5.7	2118	6.3	2138	6.3	
10	0132	1.2	0203	1.4	0211	1.4	0221	1.4	0250	1.5	0323	1.6	0353	1.6	**10**
F	0753	3.8	0810	4.2	0824	4.7	0840	5.1	0910	5.7	0941	6.2	1002	6.2	F
	1428	0.8	1452	1.1	1503	1.1	1516	1.1	1541	1.3	1611	1.3	1636	1.3	
	2041	3.7	2106	4.2	2116	4.6	2129	5.1	2200	5.7	2229	6.3	2248	6.3	
11	0245	1.1	0315	1.2	0328	1.3	0339	1.3	0410	1.4	0443	1.5	0511	1.4	**11**
SA	0906	3.8	0924	4.3	0938	4.7	0953	5.2	1024	5.8	1054	6.3	1115	6.3	SA
	1534	0.9	1558	1.1	1611	1.1	1627	1.1	1701	1.2	1730	1.3	1800	1.3	
	2145	3.8	2210	4.3	2222	4.7	2236	5.2	2308	5.8	2337	6.4	2357	6.4	
12	0355	0.9	0422	1.1	0436	1.1	0452	1.1	0528	1.2	0600	1.2	0632	1.2	**12**
SU	1009	4.0	1034	4.4	1045	4.8	1058	5.3	1131	5.9	1200	6.5	1221	6.5	SU
	1632	0.9	1656	1.0	1710	1.1	1729	1.1	1806	1.1	1841	1.2	1910	1.1	
	2241	4.0	2306	4.4	2318	4.9	2333	5.3							
13	0456	0.7	0523	0.9	0537	0.9	0556	0.9	0006	6.0	0035	6.6	0056	6.6	**13**
M	1103	4.1	1134	4.5	1142	5.0	1155	5.5	0634	0.9	0709	1.0	0739	0.9	M
○	1721	0.9	1746	1.0	1801	1.0	1821	1.0	1227	6.1	1257	6.7	1318	6.7	○
	2330	4.1	2353	4.5					1859	1.1	1937	1.1	2005	1.0	
14	0549	0.5	0615	0.7	0006	5.0	0021	5.5	0054	6.1	0125	6.7	0145	6.7	**14**
TU	1151	4.2	1224	4.6	0630	0.7	0652	0.7	0730	0.7	0807	0.8	0834	0.7	TU
	1805	0.8	1829	1.0	1230	5.1	1244	5.6	1317	6.3	1347	6.9	1408	6.8	
					1845	1.0	1907	1.0	1946	1.0	2024	1.1	2052	1.0	
15	0014	4.1	0034	4.6	0048	5.1	0104	5.6	0138	6.2	0209	6.8	0229	6.8	**15**
W	0637	0.4	0702	0.6	0718	0.6	0741	0.6	0819	0.6	0856	0.7	0923	0.6	W
	1235	4.2	1307	4.6	1314	5.2	1328	5.7	1402	6.4	1432	7.0	1453	6.9	
	1844	0.8	1908	1.0	1924	1.0	1947	1.0	2026	1.0	2104	1.1	2134	1.0	

2024 Sunrise and Sunset times for London

Times in GMT Latitude 51° 30′ N Longitude 0° 08′ W

JANUARY				FEBRUARY				MARCH				APRIL			
	RISE	SET			RISE	SET			RISE	SET			RISE	SET	
	h m	h m			h m	h m			h m	h m			h m	h m	
1	08 06	16 02	16	1	07 40	16 49	16	1	06 45	17 42	16	1	06 11	18 08	16
2	08 06	16 03	17	2	07 38	16 51	17	2	06 43	17 43	17	2	06 09	18 09	17
3	08 06	16 04	18	3	07 37	16 53	18	3	06 40	17 45	18	3	06 07	18 11	18
4	08 06	16 05	19	4	07 35	16 54	19	4	06 38	17 47	19	4	06 05	18 13	19
5	08 05	16 06	20	5	07 33	16 56	20	5	06 36	17 49	20	5	06 02	18 14	20
6	08 05	16 07	21	6	07 32	16 58	21	6	06 34	17 50	21	6	06 00	18 16	21
7	08 05	16 09	22	7	07 30	17 00	22	7	06 32	17 52	22	7	05 58	18 18	22
8	08 04	16 10	23	8	07 28	17 02	23	8	06 29	17 54	23	8	05 55	18 19	23
9	08 04	16 11	24	9	07 26	17 04	24	9	06 27	17 56	24	9	05 53	18 21	24
10	08 03	16 13	25	10	07 25	17 05	25	10	06 25	17 57	25	10	05 51	18 23	25
11	08 03	16 14	26	11	07 23	17 07	26	11	06 23	17 59	26	11	05 49	18 24	26
12	08 02	16 16	27	12	07 21	17 09	27	12	06 20	18 01	27	12	05 46	18 26	27
13	08 01	16 17	28	13	07 19	17 11	28	13	06 18	18 02	28	13	05 44	18 28	28
14	08 01	16 19	29	14	07 17	17 13	29	14	06 16	18 04	29	14	05 42	18 30	29
15	08 00	16 20	30	15	07 15	17 15		15	06 14	18 06	30	15	05 40	18 31	30
			31								31		05 37	18 33	

Data prepared by HM Nautical Almanac Office @ the UKHO © Crown Copyright and/or database rights.

2024 Sunrise and Sunset times for London

Times in GMT Latitude 51° 30′ N Longitude 0° 08′ W

MAY				JUNE				JULY				AUGUST			
	RISE	SET			RISE	SET			RISE	SET			RISE	SET	
	h m	h m			h m	h m			h m	h m			h m	h m	
1	04 32	19 25	16	1	03 49	20 09	16	1	03 48	20 21	16	1	04 03	20 10	16
2	04 30	19 26	17	2	03 48	20 10	17	2	03 49	20 20	17	2	04 04	20 09	17
3	04 28	19 28	18	3	03 47	20 11	18	3	03 49	20 20	18	3	04 05	20 08	18
4	04 26	19 29	19	4	03 47	20 12	19	4	03 50	20 19	19	4	04 06	20 06	19
5	04 24	19 31	20	5	03 46	20 13	20	5	03 51	20 19	20	5	04 08	20 05	20
6	04 23	19 33	21	6	03 45	20 14	21	6	03 52	20 18	21	6	04 09	20 04	21
7	04 21	19 34	22	7	03 45	20 14	22	7	03 53	20 18	22	7	04 10	20 03	22
8	04 19	19 36	23	8	03 45	20 15	23	8	03 54	20 17	23	8	04 13	20 01	23
9	04 18	19 37	24	9	03 44	20 16	24	9	03 55	20 16	24	9	04 13	20 00	24
10	04 16	19 39	25	10	03 44	20 17	25	10	03 56	20 16	25	10	04 15	19 59	25
11	04 14	19 41	26	11	03 43	20 17	26	11	03 57	20 15	26	11	04 16	19 57	26
12	04 13	19 42	27	12	03 43	20 18	27	12	03 58	20 14	27	12	04 17	19 56	27
13	04 11	19 44	28	13	03 43	20 19	28	13	03 59	20 13	28	13	04 19	19 54	28
14	04 10	19 45	29	14	03 43	20 19	29	14	04 00	20 12	29	14	04 20	19 53	29
15	04 08	19 47	30	15	03 43	20 20	30	15	04 02	20 11	30	15	04 22	19 51	30
			31								31		04 23	19 49	

Data prepared by HM Nautical Almanac Office @ the UKHO © Crown Copyright and/or database rights.

2024 Sunrise and Sunset times for London

Times in GMT Latitude 51° 30′ N Longitude 0° 08′ W

SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	RISE	SET			RISE	SET			RISE	SET			RISE	SET	
	h m	h m			h m	h m			h m	h m			h m	h m	
1	05 14	18 46	16	1	06 02	17 37	16	1	06 55	16 33	16	1	07 44	15 55	16
2	05 15	18 44	17	2	06 03	17 35	17	2	06 57	16 31	17	2	07 46	15 54	17
3	05 17	18 41	18	3	06 05	17 33	18	3	06 58	16 29	18	3	07 47	15 54	18
4	05 19	18 39	19	4	06 07	17 30	19	4	07 00	16 27	19	4	07 48	15 53	19
5	05 20	18 37	20	5	06 08	17 28	20	5	07 02	16 26	20	5	07 50	15 53	20
6	05 22	18 35	21	6	06 10	17 26	21	6	07 04	16 24	21	6	07 51	15 52	21
7	05 23	18 32	22	7	06 12	17 24	22	7	07 05	16 22	22	7	07 52	15 52	22
8	05 25	18 30	23	8	06 13	17 22	23	8	07 07	16 21	23	8	07 53	15 52	23
9	05 26	18 28	24	9	06 15	17 19	24	9	07 09	16 19	24	9	07 54	15 52	24
10	05 28	18 26	25	10	06 17	17 17	25	10	07 11	16 18	25	10	07 55	15 51	25
11	05 30	18 23	26	11	06 18	17 15	26	11	07 12	16 16	26	11	07 56	15 51	26
12	05 31	18 21	27	12	06 20	17 13	27	12	07 14	16 15	27	12	07 57	15 51	27
13	05 33	18 19	28	13	06 22	17 11	28	13	07 16	16 13	28	13	07 58	15 51	28
14	05 34	18 16	29	14	06 23	17 08	29	14	07 18	16 12	29	14	07 59	15 51	29
15	05 36	18 14	30	15	06 25	17 06	30	15	07 19	16 11	30	15	08 00	15 52	30
							31								31

	06 53	16 35											08 06	16 01	

Data prepared by HM Nautical Almanac Office @ the UKHO © Crown Copyright and/or database rights.

2024 Moonrise and Moonset times for London

Times in GMT Latitude 51° 30′ N Longitude 0° 08′ W

JANUARY				FEBRUARY				MARCH				APRIL			
	RISE	SET			RISE	SET			RISE	SET			RISE	SET	
	h m	h m			h m	h m			h m	h m			h m	h m	
1	21 53	11 07	16	1	** **	09 54	16	1	** **	08 27	16	1	08 41	01 42	16
2	23 02	11 17	17	2	00 21	10 06	17	2	00 39	08 45	17	2	09 27	02 53	17
3	** **	11 27	18	3	01 36	10 22	18	3	01 57	09 12	18	3	10 27	03 49	18
4	00 12	11 37	19	4	02 55	10 44	19	4	03 13	09 51	19	4	11 36	04 28	19
5	01 24	11 48	20	5	04 15	11 16	20	5	04 18	10 48	20	5	12 50	04 56	20
6	02 38	12 02	21	6	05 30	12 04	21	6	05 09	12 04	21	6	14 04	05 15	21
7	03 58	12 21	22	7	06 31	13 13	22	7	05 45	13 34	22	7	15 17	05 30	22
8	05 20	12 48	23	8	07 16	14 39	23	8	06 10	15 09	23	8	16 28	05 42	23
9	06 40	13 28	24	9	07 47	16 13	24	9	06 29	16 44	24	9	17 37	05 52	24
10	07 51	14 27	25	10	08 09	17 49	25	10	06 44	18 17	25	10	18 47	06 01	25
11	08 45	15 45	26	11	08 26	19 22	26	11	06 57	19 48	26	11	19 58	06 11	26
12	09 22	17 16	27	12	08 40	20 53	27	12	07 11	21 19	27	12	21 11	06 21	27
13	09 48	18 50	28	13	08 53	22 21	28	13	07 26	22 50	28	13	22 27	06 34	28
14	10 07	20 22	29	14	09 06	23 48	29	14	07 44	** **	29	14	23 45	06 51	29
15	10 22	21 50	30	15	09 22	** **		15	08 08	00 19	30	15	** **	07 14	30
			31								31		01 01	07 48	

** ** indicates that the phenomenon does not occur.

Data prepared by HM Nautical Almanac Office @ the UKHO © Crown Copyright and/or database rights.

2024 Moonrise and Moonset times for London

Times in GMT Latitude 51° 30′ N Longitude 0° 08′ W

	MAY				JUNE				JULY				AUGUST			
	RISE	SET	RISE	SET	RISE	SET	RISE	SET	RISE	SET	RISE	SET	RISE	SET	RISE	SET
	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
1	02 16	10 17	16	12 02	01 58	1	01 28	13 50	16	14 27	00 45	1	00 15	15 56	16	15 54	23 48	1	00 22	18 44	16	18 08	** **
2	02 38	11 45	17	13 12	02 09	2	01 40	15 16	17	15 40	00 56	2	00 34	17 23	17	17 12	** **	2	01 24	19 25	17	18 46	00 53
3	02 54	13 14	18	14 22	02 19	3	01 54	16 44	18	16 57	01 09	3	01 01	18 45	18	18 27	00 18	3	02 37	19 53	18	19 13	02 19
4	03 08	14 42	19	15 32	02 28	4	02 10	18 14	19	18 16	01 26	4	01 38	19 54	19	19 29	01 01	4	03 54	20 13	19	19 33	03 52
5	03 21	16 10	20	16 44	02 38	5	02 32	19 42	20	19 34	01 49	5	02 31	20 47	20	20 16	02 04	5	05 11	20 28	20	19 48	05 26
6	03 34	17 40	21	17 59	02 49	6	03 02	21 02	21	20 44	02 24	6	03 38	21 24	21	20 48	03 23	6	06 26	20 40	21	20 01	06 58
7	03 49	19 11	22	19 17	03 04	7	03 46	22 07	22	21 40	03 16	7	04 53	21 50	22	21 11	04 53	7	07 38	20 50	22	20 14	08 28
8	04 07	20 43	23	20 36	03 23	8	04 45	22 53	23	22 20	04 25	8	06 11	22 08	23	21 28	06 25	8	08 47	20 59	23	20 28	09 57
9	04 33	22 10	24	21 51	03 50	9	05 56	23 25	24	22 47	05 48	9	07 28	22 21	24	21 42	07 55	9	09 57	21 09	24	20 44	11 27
10	05 09	23 24	25	22 56	04 30	10	07 14	23 47	25	23 07	07 17	10	08 41	22 32	25	21 55	09 23	10	11 07	21 19	25	21 06	12 56
11	05 59	** **	26	23 45	05 27	11	08 31	** **	26	23 22	08 46	11	09 52	22 42	26	22 07	10 50	11	12 19	21 32	26	21 36	14 23
12	07 03	00 20	27	** **	06 40	12	09 45	00 03	27	23 35	10 13	12	11 01	22 52	27	22 22	12 16	12	13 35	21 50	27	22 18	15 40
13	08 17	00 59	28	00 19	08 04	13	10 57	00 15	28	23 48	11 38	13	12 11	23 02	28	22 39	13 43	13	14 52	22 14	28	23 15	16 42
14	09 34	01 25	29	00 43	09 32	14	12 07	00 26	29	** **	13 03	14	13 22	23 13	29	23 03	15 10	14	16 07	22 50	29	** **	17 27
15	10 49	01 44	30	01 01	10 59	15	13 16	00 35	30	00 00	14 28	15	14 36	23 28	30	23 36	16 33	15	17 15	23 42	30	00 25	17 58
			31	01 15	12 25										31	** **	17 46				31	01 41	18 20

** ** indicates that the phenomenon does not occur.

Data prepared by HM Nautical Almanac Office @ the UKHO © Crown Copyright and/or database rights.

2024 Moonrise and Moonset times for London

Times in GMT Latitude 51° 30′ N Longitude 0° 08′ W

	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	RISE	SET	RISE	SET	RISE	SET	RISE	SET	RISE	SET	RISE	SET	RISE	SET	RISE	SET
	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
1	02 58	18 36	16	17 52	02 49	1	04 25	17 17	16	16 37	04 48	1	06 57	16 09	16	16 00	08 26	1	08 28	15 24	16	16 28	09 44
2	04 13	18 48	17	18 06	04 22	2	05 35	17 26	17	16 51	06 20	2	08 11	16 26	17	16 42	09 54	2	09 37	16 08	17	17 47	10 27
3	05 25	18 58	18	18 19	05 54	3	06 44	17 36	18	17 09	07 55	3	09 27	16 49	18	17 41	11 06	3	10 33	17 08	18	19 10	10 55
4	06 36	19 08	19	18 32	07 26	4	07 55	17 47	19	17 33	09 31	4	10 40	17 23	19	18 54	11 57	4	11 15	18 22	19	20 29	11 15
5	07 45	19 17	20	18 48	08 59	5	09 08	18 01	20	18 07	11 02	5	11 45	18 12	20	20 13	12 32	5	11 45	19 45	20	21 45	11 30
6	08 55	19 27	21	19 08	10 32	6	10 23	18 19	21	18 56	12 22	6	12 37	19 16	21	21 33	12 55	6	12 06	21 10	21	22 57	11 41
7	10 06	19 39	22	19 35	12 04	7	11 38	18 45	22	20 00	13 22	7	13 14	20 32	22	22 49	13 12	7	12 22	22 34	22	** **	11 51
8	11 20	19 54	23	20 14	13 28	8	12 50	19 23	23	21 15	14 04	8	13 41	21 56	23	** **	13 24	8	12 36	23 58	23	00 07	12 00
9	12 35	20 15	24	21 07	14 37	9	13 51	20 16	24	22 33	14 32	9	14 01	23 23	24	00 02	13 35	9	12 48	** **	24	01 17	12 10
10	13 51	20 44	25	22 14	15 28	10	14 39	21 26	25	23 50	14 51	10	14 16	** **	25	01 12	13 44	10	13 00	01 23	25	02 27	12 22
11	15 00	21 28	26	23 29	16 03	11	15 13	22 48	26	** **	15 06	11	14 29	00 49	26	02 22	13 53	11	13 14	02 49	26	03 40	12 36
12	15 59	22 29	27	** **	16 27	12	15 38	** **	27	01 04	15 17	12	14 42	02 16	27	03 31	14 04	12	13 32	04 19	27	04 55	12 55
13	16 42	23 47	28	00 46	16 44	13	15 56	00 16	28	02 15	15 27	13	14 55	03 45	28	04 43	14 16	13	13 56	05 52	28	06 11	13 22
14	17 13	** **	29	02 02	16 57	14	16 11	01 46	29	03 24	15 36	14	15 11	05 16	29	05 57	14 32	14	14 30	07 22	29	07 23	14 01
15	17 35	01 16	30	03 15	17 08	15	16 24	03 17	30	04 34	15 45	15	15 31	06 51	30	07 13	14 53	15	15 21	08 42	30	08 25	14 56
									31	05 44	15 56										31	09 13	16 08

** ** indicates that the phenomenon does not occur.

Data prepared by HM Nautical Almanac Office @ the UKHO © Crown Copyright and/or database rights.

CONVERSION TABLE, FEET TO METRES

Feet	Metres	Feet	Metres	Feet	Metres	Feet	Metres
5' 0"	1·52	17' 0"	5·18	29' 0"	8·84	41' 0"	12·50
3"	1·60	3"	5·26	3"	8·92	3"	12·57
6"	1·68	6"	5·33	6"	8·99	6"	12·65
9"	1·75	9"	5·41	9"	9·07	9"	12·73
6' 0"	1·83	18' 0"	5·49	30' 0"	9·14	42' 0"	12·80
3"	1·91	3"	5·56	3"	9·22	3"	12·88
6"	1·98	6"	5·64	6"	9·30	6"	12·95
9"	2·06	9"	5·71	9"	9·37	9"	13·03
7' 0"	2·13	19' 0"	5·79	31' 0"	9·45	43' 0"	13·11
3"	2·21	3"	5·87	3"	9·52	3"	13·18
6"	2·29	6"	5·94	6"	9·60	6"	13·26
9"	2·36	9"	6·02	9"	9·68	9"	13·33
8' 0"	2·44	20' 0"	6·10	32' 0"	9·75	44' 0"	13·41
3"	2·51	3"	6·17	3"	9·83	3"	13·49
6"	2·59	6"	6·25	6"	9·91	6"	13·56
9"	2·67	9"	6·32	9"	9·98	9"	13·64
9' 0"	2·74	21' 0"	6·40	33' 0"	10·06	45' 0"	13·72
3"	2·82	3"	6·48	3"	10·13	3"	13·79
6"	2·90	6"	6·55	6"	10·21	6"	13·87
9"	2·97	9"	6·63	9"	10·29	9"	13·94
10' 0"	3·05	22' 0"	6·71	34' 0"	10·36	46' 0"	14·02
3"	3·12	3"	6·78	3"	10·44	3"	14·10
6"	3·20	6"	6·86	6"	10·52	6"	14·17
9"	3·28	9"	6·93	9"	10·59	9"	14·25
11' 0"	3·35	23' 0"	7·01	35' 0"	10·67	47' 0"	14·33
3"	3·43	3"	7·09	3"	10·74	3"	14·40
6"	3·51	6"	7·16	6"	10·82	6"	14·48
9"	3·58	9"	7·24	9"	10·90	9"	14·55
12' 0"	3·66	24' 0"	7·32	36' 0"	10·97	48' 0"	14·63
3"	3·73	3"	7·39	3"	11·05	3"	14·71
6"	3·81	6"	7·47	6"	11·13	6"	14·78
9"	3·89	9"	7·54	9"	11·20	9"	14·86
13' 0"	3·96	25' 0"	7·62	37' 0"	11·28	49' 0"	14·93
3"	4·04	3"	7·70	3"	11·35	3"	15·01
6"	4·11	6"	7·77	6"	11·43	6"	15·09
9"	4·19	9"	7·85	9"	11.51	9"	15·16
14' 0"	4·27	26' 0"	7·92	38' 0"	11·58	50' 0"	15·24
3"	4·34	3"	8·00	3"	11·66	3"	15·32
6"	4·42	6"	8·08	6"	11·73	6"	15·39
9"	4·50	9"	8·15	9"	11·81	9"	15·47
15' 0"	4·57	27' 0"	8·23	39' 0"	11·89	51' 0"	15·54
3"	4·65	3"	8·31	3"	11·96	3"	15·62
6"	4·72	6"	8·38	6"	12·04	6"	15·70
9"	4·80	9"	8·46	9"	12·12	9"	15·77
16' 0"	4·88	28' 0"	8·53	40' 0"	12·19	52' 0"	15·85
3"	4·95	3"	8·61	3"	12·27	3"	15·93
6"	5·03	6"	8·69	6"	12·34	6"	16·00
9"	5·11	9"	8·76	9"	12·42	9"	16·08

Metric to Imperial Conversion Kilowatts to Horsepower

1	*	1.341
Kilowatts		Horsepower
200	=	268.2
300	=	402.3
400	=	536.4
500	=	670.5
600	=	804.6
700	=	938.7
800	=	1,072,8
900	=	1,206.9
1000	=	1,341.0
2000	=	2,682.0
3000	=	4,023.0

Imperial to Metric Conversion Horsepower to Kilowatt

1	/	1.341
Horsepower		Kilowatts
200	=	149.1
300	=	223.7
400	=	298.3
500	=	372.9
600	=	447.4
700	=	522.0
800	=	596.6
900	=	671.1
1000	=	745.7
2000	=	1,491.4
3000	=	2,237.1

ACTIVE THAMES

Find out where you can enjoy being active on the river through our dedicated website, Active Thames.

Our partnership approach aims to get more people active on and alongside the water in London, Kent and Essex.

Now in its third year, more than £200,000 has been awarded by Active Thames to over 40 organisations promoting activity on the tidal Thames and inland waterways in London, Kent and Essex.

Interested in finding out more? Please visit our dedicated website:

www.activethames.co.uk

PORT OF LONDON AUTHORITY

USEFUL CONTACTS

Harbour Master team: harbourmaster@pla.co.uk

Shipping Information and Pilotage: shipcon@pla.co.uk

Urgent navigational or environmental issues (incidents such as collisions, contact, grounding, pollution/sheen, animal in distress, sunk/abandoned vessels) that require an immediate response:

Please phone our 24-hour VTS duty officer on:

- Thames Barrier Navigation Control, for matters between Teddington to Crayfordness: +44 (0)203 260 7711.
- Port Control Centre, for matters east of Crayfordness to the Outer Limits: +44 (0)1474 562215.

VHF, telephone, AIS and RADAR data is recorded for the purpose of promoting maritime safety, crime prevention and public safety.

Our office locations include:

- London River House, Royal Pier Road, Gravesend DA12 2BG.
- Marine House, Mark Lane, Gravesend, Kent DA12 2PL.
- Pinnacle House, 23-26 St Dunstan's Hill, London EC3R 8HN.

Visit pla.co.uk/Contact-Us

Published by:
The Port of London Authority

London River House
Royal Pier Road
Gravesend DA12 2BG
Telephone +44 (0) 1474 562200

pla.co.uk
@LondonPortAuth