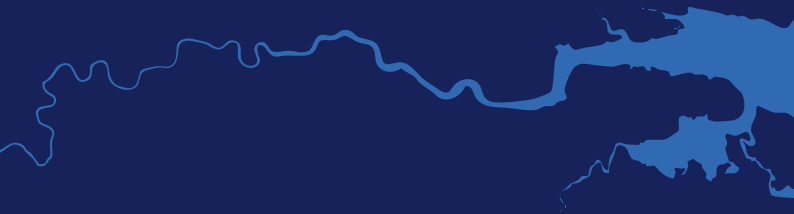


TIDE TABLES AND PORT INFORMATION 2025



PORT OF
LONDON
AUTHORITY

HANDBOOK
OF
TIDE TABLES
AND PORT INFORMATION

2025

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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 30 March 2025 to 0100 26 October 2025.

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.

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The information in this publication is correct at the time of going to press (December 2024). 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:

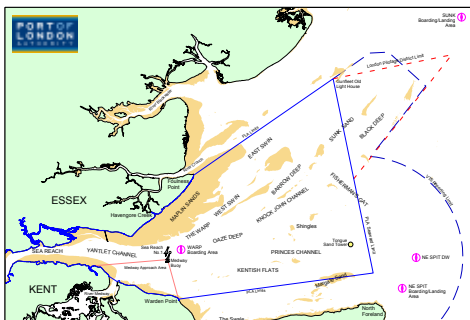
Low Water levels in the upper reaches of the tidal Thames are greatly affected by the land water flow at Teddington Weir. They frequently fall below chart datum when this flow is significantly reduced, typically during the summer months.

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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	Upper Pool	Sea Miles from Gravesend
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		Sea Miles
From London Bridge		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

	When proceeding via Knock John Channel to a position	
64.82	near Black Deep No. 6 Buoy	41.69
	When proceeding via Barrow Deep Channel to a	
65.82	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	} Administered 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

Name	Latitude N. WGS 84	Longitude E.	Radius (Cables)	Depth (m) at C.D.	Bearing (T)	Distance (Miles)
------	-----------------------	--------------	--------------------	----------------------	----------------	---------------------

C1	51° 30.296	0° 37.409	1.33	9.6	-	-
C2	51° 30.296	0° 37.946	1.33	11.9	-	-
C3	51° 30.311	0° 38.483	1.67	9.7	-	-

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	12.6	199.5	0.49
D	51° 29.968	0° 46.235	1.67	11.3	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	12.0	122.5	1.01

From Shoebury Beacon

Z1	51° 29.742	0° 47.713	1.67	14.3	240.0	1.11
Z2	51° 29.731	0° 48.347	2.00	13.3	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	11.3	133.5	0.66
Z5	51° 29.907	0° 50.588	1.67	10.7	115.0	0.92
Z6	51° 30.023	0° 51.141	1.67	11.2	103.0	1.21
Z7	51° 30.084	0° 51.720	1.67	11.3	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	11.0	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	12.0	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	14.3	102.5	1.23

From Shivering Sand North Tower

K3	51° 30.356	1° 04.014	2.60	12.7	310.0	0.63
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<https://www.pla.co.uk/tidal-information#mariners>

GREAT NORE
Refer to Medway Ports Authority

RIVER THAMES – DESIGNATED ANCHORAGE BERTHS Cont'd

- Notes 1. W1 & 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 visibility as per the Pilotage Direction. Usable in clear visibility by small to medium sized vessels, subject to approval given by Port Control.

DIRECTIONS TO VESSELS ANCHORING

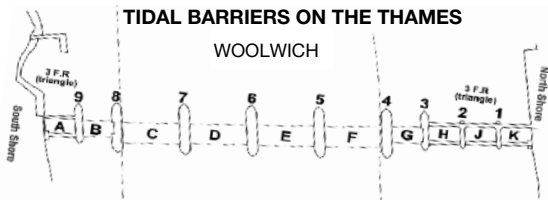
General Directions for Navigation in the Port of London states:

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 Anchorage 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.



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	MHWS	MHWN	MLWN	MLWS	HAT
	Datum					
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	MHWS	MHWN	MLWN	MLWS	HAT
	Datum					
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	MHWS	MHWN	MLWN	MLWS	HAT
	Datum					
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 20.

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

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Email: Hydro.Commercial@pla.co.uk

Tel: 01474 562206

or visit:

www.pla.co.uk/hydrography

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Tel: 01474 562462

For PLA mooring availability:

VisitorMoorings@pla.co.uk

Telephone: 01474 562421

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Tel: 01474 562462

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- no road access
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<https://pla.co.uk/navigational-safety>

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PLA Tide Tables

including
Sunrise & Sunset



Moonrise & Moonset
for 2025

on pages 30 - 85

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 W	0008 4.1 0623 0.7 1230 4.1 1830 0.8	0022 4.5 0652 0.8 1253 4.5 1900 1.0	0041 5.0 0707 0.9 1306 5.1 1913 1.0	0058 5.5 0725 0.9 1322 5.6 1929 1.0	0134 6.1 0801 1.0 1356 6.2 2004 1.1	0205 6.7 0833 1.1 1428 6.8 2040 1.1	0225 6.7 0908 1.0 1448 6.8 2120 1.1
2 TH	0049 4.1 0705 0.6 1312 4.2 1908 0.8	0141 4.6 0734 0.8 1338 4.6 1939 0.9	0120 5.1 0748 0.8 1348 5.1 1952 1.0	0138 5.6 0807 0.8 1404 5.7 2008 1.0	0213 6.2 0843 0.9 1438 6.3 2043 1.0	0246 6.8 0917 1.0 1510 6.9 2120 1.0	0305 6.7 0954 0.9 1530 6.9 2201 1.0
3 F	0130 4.1 0747 0.6 1354 4.2 1948 0.8	0141 4.6 0816 0.7 1423 4.6 2020 0.9	0200 5.1 0830 0.7 1432 5.1 2033 1.0	0218 5.6 0849 0.8 1447 5.7 2049 1.0	0253 6.2 0925 0.8 1521 6.4 2125 1.0	0325 6.8 0959 0.9 1552 7.0 2202 1.0	0344 6.7 1038 0.8 1612 6.9 2241 1.0
4 SA	0211 4.1 0830 0.5 1439 4.2 2031 0.9	0222 4.6 0859 0.7 1509 4.5 2103 1.0	0240 5.1 0912 0.7 1516 5.1 2116 1.0	0258 5.5 0931 0.7 1532 5.6 2133 1.0	0333 6.2 1006 0.8 1605 6.3 2208 1.0	0404 6.7 1038 0.8 1636 6.9 2243 1.1	0423 6.7 1117 0.8 1655 6.9 2318 1.1
5 SU	0253 4.0 0915 0.5 1525 4.1 2117 1.0	0305 4.6 0944 0.7 1555 4.4 2147 1.1	0321 5.0 0956 0.7 1603 5.0 2201 1.1	0339 5.5 1013 0.8 1618 5.5 2217 1.1	0413 6.1 1047 0.8 1652 6.2 2252 1.1	0443 6.7 1115 0.9 1721 6.8 2325 1.1	0502 6.7 1151 0.8 1740 6.8 2357 1.1
6 M	0338 4.0 1004 0.6 1616 4.0 2209 1.1	0350 4.5 1032 0.7 1643 4.3 2235 1.2	0406 5.0 1042 0.8 1653 4.9 2249 1.2	0422 5.4 1057 0.8 1708 5.4 2304 1.2	0455 6.0 1129 0.9 1741 6.0 2337 1.3	0525 6.6 1154 0.9 1810 6.6 2357 1.1	0544 6.6 1228 0.9 1829 6.6 2357 1.1
7 TU	0428 3.9 1101 0.6 1715 3.8 2308 1.1	0440 4.4 1126 0.8 1739 4.2 2330 1.3	0457 4.9 1135 0.9 1749 4.7 2345 1.3	0512 5.3 1147 0.9 1805 5.2 2358 1.3	0543 5.9 1217 1.0 1837 5.9	0609 1.3 0611 6.5 1241 1.0 1905 6.5	0640 1.3 0630 6.5 1313 1.0 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	

JANUARY 2025

TIME ZONE UT(GMT)

	WALTON-ON- THE-NAZE	MARGATE	SHIVERING SAND	SOUTHEAST -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	0055 4.2 0719 0.4 1317 4.2 1919 0.9	0111 4.6 0744 0.6 1347 4.6 1945 1.0	0127 5.1 0800 0.5 1355 5.1 2000 1.0	0144 5.6 0824 0.6 1409 5.7 2021 1.0	0218 6.3 0901 0.6 1444 6.4 2100 1.1	0249 6.9 0938 0.7 1514 7.0 2137 1.1	0309 6.8 1006 0.6 1535 6.9 2210 1.1
17 F	0133 4.2 0757 0.4 1356 4.1 1952 0.9	0147 4.6 0823 0.6 1423 4.5 2019 1.0	0204 5.1 0837 0.6 1433 5.1 2033 1.1	0221 5.6 0859 0.6 1449 5.7 2048 1.1	0257 6.3 0936 0.7 1524 6.3 2126 1.1	0327 6.9 1011 0.7 1553 7.0 2201 1.1	0346 6.8 1042 0.7 1613 6.9 2238 1.1
18 SA	0209 4.1 0831 0.5 1434 4.0 2022 1.0	0223 4.6 0858 0.6 1458 4.4 2051 1.1	0240 5.1 0910 0.7 1510 5.0 2103 1.1	0257 5.6 0927 0.7 1527 5.5 2115 1.1	0332 6.2 1002 0.7 1602 6.2 2150 1.1	0402 6.8 1035 0.8 1630 6.8 2226 1.2	0420 6.7 1109 0.7 1649 6.7 2300 1.1
19 SU	0243 4.1 0902 0.6 1511 3.9 2053 1.0	0258 4.5 0930 0.7 1532 4.3 2123 1.2	0315 5.0 0939 0.7 1546 4.8 2134 1.2	0332 5.5 0951 0.8 1602 5.3 2144 1.2	0406 6.1 1025 0.8 1636 6.0 2218 1.2	0434 6.7 1057 0.8 1703 6.6 2254 1.2	0452 6.6 1129 0.8 1722 6.5 2325 1.2
20 M	0317 4.0 0935 0.6 1547 3.8 2127 1.1	0332 4.5 1002 0.8 1606 4.2 2156 1.3	0349 4.9 1010 0.9 1620 4.7 2208 1.3	0405 5.3 1020 0.8 1636 5.2 2217 1.3	0437 5.9 1052 0.9 1710 5.8 2249 1.3	0505 6.5 1124 0.9 1736 6.4 2324 1.3	0523 6.5 1152 0.9 1755 6.4 2354 1.3
21 TU	0353 3.8 1012 0.8 1625 3.6 2207 1.2	0407 4.3 1037 1.0 1642 4.0 2235 1.4	0424 4.7 1046 1.0 1657 4.5 2246 1.5	0439 5.1 1054 1.0 1713 5.0 2253 1.4	0510 5.7 1122 1.1 1745 5.6 2323 1.5	0537 6.3 1152 1.1 1811 6.2 2356 1.5	0555 6.3 1220 1.1 1830 6.2 2394 1.3
22 W	0435 3.6 1058 0.9 1711 3.5 2258 1.4	0447 4.1 1128 1.2 1725 3.9 2323 1.6	0504 4.5 1128 1.2 1740 4.3 2333 1.6	0518 4.9 1133 1.2 1755 4.7 2337 1.6	0548 5.3 1158 1.3 1827 5.4	0613 6.1 1223 1.3 1852 6.0	0625 1.5 0631 6.0 1251 1.3 1911 5.9

23 TH	0529 1158 1811	3.5 1.1 3.3	0537 1217 1823	3.9 1.4 3.8	0555 1224 1835	4.3 1.4 4.2	0608 1225 1848	4.7 1.4 4.6	0004 0639 1245 1920	5.6 5.3 1.5 5.2	0034 0701 1306 1944	1.7 5.8 1.6 5.8	0100 0717 1330 2004	1.7 5.8 1.5 5.7	23 TH
24 F	0012 0840 1312 1920	1.4 3.3 1.2 3.3	0029 0648 1331 1946	1.7 3.8 1.4 3.7	0036 0703 1338 1948	1.8 4.2 1.5 4.1	0036 0718 1345 1958	1.8 4.5 1.6 4.5	0100 0750 1356 2025	1.8 5.1 1.7 5.1	0125 0812 1412 2052	1.9 5.6 1.8 5.7	0147 0829 1432 2115	1.9 5.6 1.8 5.7	24 F
25 SA	0141 0755 1421 2031	1.4 3.3 1.2 3.4	0204 0816 1445 2100	1.7 3.8 1.4 3.9	0209 0826 1455 2106	1.8 4.1 1.5 4.2	0208 0841 1507 2116	1.8 4.5 1.6 4.6	0219 0907 1526 2139	1.9 5.1 1.7 5.2	0237 0937 1551 2207	2.0 5.6 1.8 5.8	0255 0959 1622 2228	2.0 5.6 1.8 5.8	25 SA
26 SU	0251 0905 1523 2135	1.2 3.5 1.1 3.6	0321 0927 1549 2159	1.5 3.9 1.3 4.0	0331 0939 1600 2210	1.6 4.3 1.4 4.5	0339 0953 1613 2222	1.6 4.7 1.4 4.9	0359 1021 1639 2252	1.7 5.3 1.5 5.5	0426 1050 1706 2319	1.9 5.8 1.6 6.0	0458 1110 1733 2338	1.8 5.8 1.6 6.0	26 SU
27 M	0352 1003 1616 2226	1.0 3.6 1.0 3.8	0423 1027 1643 2248	1.3 4.1 1.2 4.2	0433 1038 1654 2301	1.3 4.5 1.2 4.7	0445 1052 1709 2316	1.3 5.0 1.3 5.1	0512 1124 1740 2349	1.4 5.6 1.3 5.7	0540 1153 1808 2399	1.5 6.2 1.4 5.7	0606 1212 1835 2439	1.5 6.2 1.4 5.7	27 M
28 TU	0445 1051 1701 2311	0.8 3.9 0.9 3.9	0515 1118 1729 2330	1.0 4.3 1.1 4.4	0525 1127 1741 2345	1.1 4.8 1.1 4.9	0542 1142 1759 2366	1.1 5.3 1.1 5.1	0613 1216 1833 2439	1.2 5.9 1.2 5.7	0019 0641 1246 1903	6.3 1.2 6.5 1.3	0038 0709 1305 1934	6.3 1.2 6.5 1.2	28 TU
29 W	0531 1135 1740 2354	0.7 4.0 0.8 4.1	0600 1203 1810 2330	0.8 4.4 0.9 4.4	0613 1211 1823 2345	0.9 5.0 1.0 4.9	0002 0633 1227 1842	5.3 0.9 5.5 1.0	0037 0708 1301 1920	6.0 1.0 6.1 1.1	0108 0739 1333 1953	6.6 1.1 6.8 1.1	0128 0808 1352 2027	6.5 1.0 6.7 1.1	29 W
30 TH	0614 1217 1819	0.5 4.2 0.7	0009 0642 1245 1848	4.5 0.7 4.6 0.8	0026 0657 1254 1903	5.0 0.7 5.2 0.9	0044 0720 1310 1923	5.5 0.7 5.7 0.9	0120 0757 1345 2002	6.2 0.8 6.4 0.9	0152 0833 1417 2040	6.8 0.9 7.0 1.0	0212 0903 1436 2115	6.7 0.8 6.9 0.9	30 TH
31 F	0035 0656 1259 1857	4.2 0.4 4.3 0.7	0047 0723 1329 1927	4.7 0.5 4.7 0.7	0106 0739 1336 1942	5.2 0.5 5.3 0.8	0125 0803 1353 2003	5.7 0.6 5.9 0.8	0200 0843 1427 2043	6.3 0.6 6.5 0.8	0234 0921 1459 2123	6.9 0.7 7.2 0.9	0253 0952 1519 2159	6.9 0.6 7.1 0.8	31 F

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	WALTON-ON-THE-NAZE	MARGATE	SHIVERING SAND	SOUTHEND -ON-SEA	TILBURY	NORTH WOOLWICH (TOWER PIER)	LONDON BRIDGE
	Time m	Time m	Time m	Time m	Time m	Time m	Time m
1 SA	0117 4.3 0738 0.3 1342 4.4 1936 0.6	0127 4.7 0804 0.4 1412 4.7 2006 0.7	0146 5.3 0821 0.4 1419 5.3 2022 0.7	0205 5.8 0845 0.4 1435 5.9 2042 0.7	0240 6.5 0924 0.5 1510 6.6 2122 0.7	0313 7.0 1004 0.5 1541 7.3 2203 0.8	0332 7.0 1035 0.5 1600 7.2 2239 0.8
2 SU	0158 4.3 0818 0.3 1425 4.3 2016 0.7	0208 4.8 0844 0.4 1455 4.7 2046 0.8	0226 5.3 0900 0.4 1502 5.3 2102 0.8	0245 5.8 0923 0.4 1518 5.9 2121 0.7	0320 6.5 1003 0.4 1552 6.6 2200 0.8	0351 7.1 1042 0.5 1622 7.2 2239 0.8	0410 7.1 1114 0.4 1641 7.2 2315 0.8
3 M	0239 4.3 0859 0.3 1509 4.2 2058 0.7	0248 4.8 0925 0.4 1536 4.6 2126 0.8	0306 5.3 0939 0.4 1545 5.2 2142 0.9	0324 5.8 1000 0.4 1601 5.7 2159 0.8	0359 6.5 1039 0.5 1635 6.4 2237 0.9	0429 7.1 1114 0.5 1704 7.0 2314 0.9	0448 7.0 1148 0.5 1723 7.0 2348 0.9
4 TU	0320 4.2 0941 0.4 1555 4.0 2144 0.8	0330 4.7 1006 0.6 1617 4.4 2209 1.0	0348 5.2 1019 0.6 1630 5.0 2225 1.0	0404 5.7 1036 0.6 1645 5.5 2239 1.0	0438 6.3 1112 0.6 1719 6.2 2314 1.0	0508 6.9 1143 0.7 1748 6.8 2350 1.1	0527 6.9 1217 0.7 1807 6.8 2350 1.1
5 W	0406 4.1 1030 0.6 1647 3.8 2238 1.0	0416 4.6 1052 0.8 1705 4.2 2259 1.1	0435 5.1 1104 0.8 1720 4.8 2315 1.2	0449 5.5 1115 0.8 1735 5.2 2325 1.1	0522 6.2 1147 0.8 1808 5.9 2357 1.2	0551 6.8 1217 0.9 1836 6.5 1856 6.5	0623 1.0 0610 6.8 1251 0.9 1856 6.5
6 TH	0501 3.9 1130 0.8 1748 3.6 2346 1.1	0513 4.4 1152 1.0 1807 4.0	0531 4.8 1201 1.0 1820 4.5	0544 5.3 1209 1.0 1835 5.0	0615 5.9 1236 1.1 1906 5.6	0632 1.3 0643 6.5 1305 1.2 1933 6.2	0104 1.2 0702 6.5 1339 1.1 1955 6.2
7 F	0611 3.7 1245 1.0 1901 3.5	0607 1.3 0628 4.2 1311 1.2 1927 3.9	0619 1.4 0642 4.6 1316 1.3 1935 4.4	0628 1.4 0656 5.0 1324 1.3 1948 4.8	0657 1.4 0727 5.6 1347 1.4 2016 5.4	0127 1.5 0752 6.2 1416 1.5 2044 6.0	0200 1.5 0814 6.2 1447 1.4 2106 6.0

8	0108	1.1	0141	1.4	0147	1.4	0154	1.4	0220	1.5	0250	1.7	0321	1.6	8
SA	0737	3.6	0756	4.0	0808	4.5	0822	4.8	0850	5.5	0918	6.0	0940	6.0	SA
	1409	1.1	1433	1.3	1442	1.4	1450	1.4	1512	1.6	1541	1.7	1605	1.6	
	2025	3.5	2048	4.0	2059	4.4	2112	4.8	2140	5.4	2207	5.9	2227	5.9	
9	0239	1.1	0307	1.3	0317	1.3	0326	1.4	0352	1.5	0421	1.6	0448	1.5	9
SU	0901	3.6	0925	4.1	0935	4.5	0948	4.9	1017	5.5	1044	6.1	1104	6.1	SU
	1526	1.1	1552	1.3	1602	1.3	1614	1.4	1647	1.5	1712	1.6	1741	1.5	
	2139	3.6	2202	4.1	2214	4.6	2229	5.0	2300	5.6	2329	6.2	2347	6.1	
10	0400	0.8	0427	1.0	0436	1.1	0450	1.1	0525	1.2	0554	1.3	0623	1.2	10
M	1009	3.8	1041	4.3	1047	4.7	1100	5.2	1131	5.8	1159	6.4	1218	6.3	M
	1625	1.0	1654	1.2	1703	1.2	1719	1.2	1755	1.3	1828	1.4	1855	1.3	
	2235	3.8	2301	4.3	2312	4.8	2328	5.2	2354	5.8	2421	6.4	2448	6.3	
11	0458	0.6	0526	0.8	0536	0.8	0554	0.8	0600	0.9	0629	0.9	0648	0.8	11
TU	1102	4.0	1136	4.4	1142	4.9	1155	5.4	1227	6.1	1255	6.7	1314	6.6	TU
	1711	0.9	1739	1.1	1751	1.1	1809	1.1	1846	1.1	1922	1.1	1949	1.0	
	2322	4.0	2347	4.5	2358	5.0	2414	5.4	2447	6.1	2475	6.7	2502	6.7	
12	0544	0.4	0612	0.6	0624	0.6	0644	0.6	0721	0.6	0757	0.7	0822	0.6	12
W	1145	4.1	1220	4.5	1225	5.0	1239	5.6	1311	6.2	1340	6.9	1400	6.8	W
O	1749	0.8	1816	1.0	1830	1.0	1851	1.0	1930	1.0	2007	1.1	2034	0.9	O
	2414	0.4	2424	4.6	2436	5.1	2453	5.6	2526	6.2	2557	6.8	2628	6.8	
13	0624	0.4	0650	0.5	0704	0.5	0727	0.5	0804	0.6	0841	0.6	0907	0.5	13
TH	1223	4.1	1256	4.5	1302	5.1	1316	5.7	1350	6.3	1420	7.0	1440	6.9	TH
	1823	0.8	1849	0.9	1905	0.9	1927	0.9	2007	0.9	2045	1.0	2114	0.9	
	2414	0.4	2424	4.6	2436	5.1	2453	5.6	2526	6.2	2557	6.8	2628	6.8	
14	0038	4.2	0054	4.6	0110	5.2	0127	5.7	0201	6.3	0232	6.9	0252	6.9	14
F	0659	0.3	0724	0.5	0739	0.5	0803	0.5	0841	0.5	0917	0.6	0945	0.5	F
	1258	4.2	1327	4.5	1336	5.1	1351	5.7	1426	6.4	1456	7.0	1517	7.0	
	1855	0.7	1922	0.8	1938	0.9	1957	0.9	2037	0.9	2115	1.0	2148	0.9	
15	0111	4.2	0125	4.7	0142	5.2	0159	5.7	0234	6.4	0304	7.0	0324	6.9	15
SA	0730	0.3	0756	0.5	0810	0.5	0832	0.5	0909	0.5	0945	0.6	1017	0.6	SA
	1333	4.2	1356	4.5	1408	5.1	1424	5.7	1500	6.4	1529	7.0	1549	7.0	
	1926	0.7	1953	0.8	2007	0.9	2023	0.9	2102	0.9	2138	0.9	2214	0.9	

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	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	0143 4.2 0759 0.4 1405 4.1 1953 0.8	0157 4.7 0825 0.6 1426 4.5 2022 0.9	0214 5.2 0838 0.6 1440 5.1 2035 0.9	0231 5.7 0855 0.5 1456 5.6 2048 0.9	0306 6.4 0932 0.6 1531 6.3 2125 0.9	0336 7.0 1006 0.6 1600 7.0 2202 0.9	0354 7.0 1040 0.6 1619 6.9 2235 0.9
17 M	0213 4.2 0826 0.5 1435 4.0 2020 0.8	0229 4.7 0852 0.6 1456 4.4 2050 0.9	0246 5.2 0904 0.6 1510 5.0 2103 1.0	0302 5.7 0918 0.6 1527 5.5 2114 0.9	0336 6.3 0954 0.6 1600 6.2 2150 0.9	0406 6.9 1028 0.7 1629 6.8 2228 1.0	0424 6.9 1059 0.7 1647 6.8 2259 1.0
18 TU	0243 4.1 0853 0.6 1505 3.9 2049 0.9	0300 4.5 0919 0.8 1525 4.3 2118 1.1	0316 5.0 0931 0.8 1539 4.8 2131 1.1	0332 5.5 0943 0.7 1555 5.3 2140 1.1	0405 6.1 1017 0.8 1629 6.0 2214 1.1	0435 6.7 1051 0.8 1657 6.6 2252 1.1	0453 6.7 1120 0.8 1716 6.6 2324 1.1
19 W	0314 3.9 0921 0.7 1535 3.7 2123 1.0	0329 4.4 0948 0.9 1554 4.2 2150 1.2	0345 4.9 0959 0.9 1609 4.7 2202 1.2	0401 5.3 1009 0.9 1625 5.1 2207 1.2	0433 5.9 1039 0.9 1657 5.8 2237 1.2	0502 6.5 1112 1.0 1726 6.4 2315 1.3	0522 6.5 1143 1.0 1745 6.4 2347 1.3
20 TH €	0348 3.8 0956 0.9 1611 3.6 2204 1.1	0402 4.2 1024 1.1 1630 4.0 2231 1.4	0419 4.7 1032 1.2 1645 4.5 2239 1.4	0433 5.1 1036 1.1 1700 4.9 2241 1.4	0503 5.7 1100 1.2 1730 5.5 2307 1.4	0533 6.2 1134 1.2 1759 6.1 2343 1.4	0553 6.2 1204 1.2 1819 6.1 €
21 F	0429 3.5 1043 1.1 1700 3.4 2302 1.3	0447 4.0 1112 1.4 1719 3.8 2327 1.5	0502 4.4 1116 1.4 1734 4.2 2333 1.6	0516 4.8 1115 1.4 1747 4.6 2333 1.6	0543 5.4 1135 1.4 1816 5.3 2355 1.6	0612 5.9 1206 1.5 1844 5.8 1903 5.8	0613 1.4 0632 5.9 1234 1.4 1903 5.8
22 SA	0531 3.3 1159 1.3 1817 3.2	0548 3.8 1224 1.6 1828 3.6	0603 4.1 1224 1.7 1842 4.0	0616 4.5 1219 1.7 1855 4.4	0643 5.1 1235 1.7 1923 5.0	0626 1.7 0708 5.6 1300 1.8 1946 5.6	0632 1.6 0725 5.6 1322 1.7 2003 5.6

23 SU	0038 0707 1340 1947	1.4 3.2 1.3 3.2	0058 0720 1357 2014	3.6 3.6 1.6 3.6	0059 0730 1404 2017	1.8 4.0 1.7 4.0	0052 0746 1411 2027	1.8 4.3 1.8 4.4	0109 0813 1420 2050	1.9 4.9 1.9 5.0	0132 0836 1433 2117	1.9 5.4 2.1 5.5	0153 0854 1447 2138	1.9 5.4 2.0 5.5
24 M	0215 0835 1454 2103	1.2 3.3 1.2 3.4	0244 0858 1520 2130	1.5 3.8 1.4 3.9	0252 0906 1530 2139	1.6 4.2 1.5 4.3	0258 0918 1541 2151	1.7 4.5 1.6 4.7	0311 0943 1603 2218	1.8 5.1 1.7 5.3	0329 1012 1629 2245	2.0 5.6 1.9 5.8	0406 1033 1656 2305	1.9 5.6 1.8 5.8
25 TU	0326 0941 1552 2202	1.0 3.6 1.0 3.7	0358 1009 1622 2226	1.2 4.0 1.2 4.2	0407 1015 1631 2237	1.3 4.5 1.3 4.6	0418 1028 1645 2252	1.3 4.9 1.3 5.0	0444 1058 1715 2324	1.4 5.5 1.4 5.7	0510 1127 1741 2354	1.6 6.1 1.5 6.3	0536 1144 1807 2395	1.5 6.1 1.4 6.3
26 W	0424 1031 1639 2250	0.7 3.9 0.9 3.9	0454 1102 1710 2311	0.9 4.3 1.0 4.4	0504 1108 1720 2323	1.0 4.8 1.1 4.9	0521 1122 1738 2341	1.0 5.3 1.1 5.3	0553 1155 1813 2353	1.1 5.9 1.1 5.9	0619 1225 1843 2354	1.2 6.6 1.2 6.3	0612 0646 1243 1913	6.2 1.1 6.5 1.1
27 TH	0511 1116 1720 2333	0.5 4.1 0.7 4.1	0541 1148 1751 2350	0.7 4.5 0.8 4.6	0553 1153 1803 2350	0.7 5.1 0.9 4.6	0615 1208 1824 2341	0.7 5.6 0.9 5.3	0615 0651 1242 1903	6.0 0.8 6.3 0.9	0646 0724 1313 1938	6.6 0.9 6.9 1.0	0105 0753 1332 2010	6.6 0.8 6.9 0.9
28 F ●	0555 1158 1759	0.3 4.3 0.6	0623 1230 1829	0.5 4.7 0.7	0605 0638 1235 1844	5.1 0.5 5.3 0.7	0624 0703 1251 1907	5.6 0.5 5.9 0.7	0058 0742 1326 1948	6.3 0.6 6.6 0.8	0131 0820 1358 2027	6.9 0.6 7.2 0.8	0150 0848 1417 2100	6.9 0.6 7.2 0.8

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	WALTON-ON-THE-NAZE	MARGATE	SHIVERING SAND	SOUTHEND -ON-SEA	TILBURY	NORTH WOOLWICH (TOWER PIER)	LONDON BRIDGE
	Time m	Time m	Time m	Time m	Time m	Time m	Time m
1 SA	0015 4.3 0637 0.2 1240 4.4 1838 0.5	0028 4.7 0703 0.3 1312 4.8 1908 0.6	0046 5.3 0720 0.3 1317 5.4 1924 0.6	0104 5.8 0746 0.3 1333 6.1 1948 0.6	0139 6.5 0827 0.4 1408 6.8 2030 0.6	0212 7.2 0907 0.4 1440 7.4 2112 0.7	0232 7.1 0936 0.3 1500 7.3 2145 0.7
2 SU	0056 4.4 0717 0.1 1323 4.5 1917 0.5	0108 4.9 0743 0.2 1354 4.8 1947 0.5	0126 5.5 0801 0.2 1359 5.5 2004 0.6	0145 6.0 0827 0.2 1415 6.1 2027 0.5	0219 6.7 0908 0.3 1450 6.8 2109 0.6	0252 7.3 0949 0.3 1521 7.5 2151 0.6	0312 7.3 1019 0.2 1541 7.4 2225 0.6
3 M	0138 4.5 0756 0.1 1405 4.4 1957 0.5	0149 4.9 0822 0.2 1434 4.8 2026 0.6	0206 5.5 0839 0.2 1441 5.4 2043 0.6	0224 6.0 0904 0.2 1457 6.0 2104 0.6	0259 6.8 0945 0.3 1531 6.7 2145 0.6	0331 7.4 1026 0.3 1602 7.4 2226 0.6	0350 7.4 1057 0.2 1621 7.3 2300 0.6
4 TU	0219 4.5 0835 0.2 1448 4.3 2037 0.6	0230 4.9 0900 0.3 1513 4.6 2105 0.7	0247 5.5 0916 0.3 1522 5.2 2122 0.7	0304 6.0 0937 0.3 1538 5.8 2140 0.7	0339 6.7 1017 0.4 1612 6.5 2218 0.7	0410 7.3 1055 0.4 1642 7.2 2257 0.7	0429 7.3 1128 0.4 1701 7.1 2332 0.7
5 W	0301 4.3 0914 0.4 1533 4.0 2122 0.7	0313 4.8 0938 0.6 1551 4.5 2147 0.8	0330 5.4 0953 0.6 1605 5.0 2203 0.8	0346 5.8 1009 0.5 1621 5.5 2217 0.8	0419 6.5 1046 0.6 1654 6.2 2251 0.9	0449 7.2 1121 0.7 1723 6.8 2330 0.9	0509 7.2 1155 0.6 1743 6.8
6 TH	0347 4.2 1000 0.7 1622 3.8 2215 0.8	0400 4.6 1023 0.8 1637 4.2 2237 1.0	0417 5.1 1035 0.9 1653 4.7 2252 1.1	0431 5.6 1046 0.8 1708 5.2 2302 1.0	0503 6.3 1118 0.9 1740 5.9 2332 1.1	0533 6.9 1152 0.9 1808 6.5 2330 0.9	0603 6.9 0553 6.9 1226 0.9 1828 6.5
7 F	0442 3.9 1100 0.9 1721 3.5 2325 1.0	0459 4.3 1122 1.2 1739 4.0 2351 1.3	0514 4.8 1130 1.2 1753 4.4 2359 1.3	0527 5.3 1137 1.2 1806 4.8	0558 5.9 1205 1.3 1836 5.5	0608 6.1 0625 6.5 1236 1.3 1903 6.1	0642 6.5 1309 1.3 1923 6.1

8	0555	3.6	0618	4.1	0629	4.5	0005	1.3	0033	1.3	0102	1.4	0134	1.4
SA	1222	1.2	1249	1.4	1250	1.5	0641	4.9	0711	5.5	0736	6.1	0757	6.1
	1839	3.4	1906	3.8	1913	4.2	1256	1.6	1320	1.6	1346	1.7	1415	1.6
							1925	4.6	1952	5.2	2016	5.8	2037	5.8
9	0057	1.1	0131	1.3	0135	1.4	0139	1.4	0201	1.5	0228	1.6	0256	1.6
SU	0730	3.5	0753	3.9	0801	4.4	0813	4.7	0839	5.3	0904	5.9	0925	5.9
	1357	1.3	1424	1.5	1429	1.6	1433	1.6	1451	1.8	1518	1.9	1539	1.8
	2011	3.4	2033	3.9	2045	4.3	2059	4.6	2126	5.2	2151	5.8	2209	5.8
10	0241	0.9	0307	1.2	0314	1.2	0322	1.3	0346	1.4	0407	1.6	0429	1.5
M	0859	3.6	0928	4.1	0933	4.5	0944	4.9	1012	5.5	1037	6.1	1055	6.0
	1517	1.2	1547	1.4	1552	1.4	1604	1.5	1634	1.6	1658	1.7	1723	1.6
	2127	3.6	2150	4.1	2200	4.5	2216	4.9	2247	5.6	2315	6.1	2332	6.1
11	0356	0.7	0423	0.9	0431	0.9	0446	0.9	0519	1.0	0548	1.1	0613	1.1
TU	1003	3.9	1036	4.3	1040	4.8	1053	5.2	1123	5.9	1149	6.5	1207	6.4
	1612	1.0	1643	1.2	1650	1.2	1704	1.2	1738	1.3	1810	1.3	1836	1.2
	2221	3.8	2247	4.3	2257	4.8	2313	5.2	2345	5.9	2386	6.5	2411	6.4
12	0446	0.5	0515	0.7	0525	0.7	0543	0.7	0617	0.7	0650	0.8	0714	0.7
W	1050	4.0	1125	4.5	1129	5.0	1143	5.5	1214	6.2	1241	6.8	1300	6.8
	1652	0.9	1723	1.0	1732	1.1	1749	1.0	1826	1.1	1900	1.1	1926	1.0
	2304	4.0	2331	4.5	2340	5.0	2356	5.5	2428	6.1	2455	6.8	2481	6.7
13	0526	0.4	0555	0.6	0606	0.6	0626	0.5	0629	0.6	0658	0.8	0716	0.5
TH	1128	4.1	1204	4.5	1208	5.1	1222	5.6	1270	6.2	1303	7.0	1342	6.9
	1726	0.8	1754	0.9	1807	1.0	1827	0.9	1855	0.9	1905	0.9	1941	0.9
	2341	4.1	2368	4.6	2377	5.1	2393	5.6	2420	6.1	2447	6.9	2474	6.8
14	0600	0.3	0603	4.6	0615	5.1	0631	5.6	0705	6.2	0735	6.9	0764	6.8
F	1202	4.1	1237	4.5	1240	5.1	1255	5.7	1329	6.3	1358	7.0	1419	7.0
○	1757	0.7	1824	0.8	1839	0.9	1859	0.8	1939	0.9	2016	0.9	2046	0.9
15	0014	4.2	0030	4.7	0045	5.2	0102	5.7	0137	6.3	0207	7.0	0227	6.9
SA	0629	0.3	0655	0.5	0709	0.5	0730	0.5	0808	0.5	0844	0.6	0914	0.5
	1234	4.2	1258	4.6	1309	5.2	1325	5.7	1400	6.4	1430	7.1	1451	7.0
	1828	0.7	1855	0.8	1910	0.8	1928	0.8	2008	0.8	2044	0.9	2117	0.8

MARCH 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
16 SU	0044 4.2 0857 0.4 1304 4.2 1857 0.6	0058 4.7 0723 0.5 1324 4.6 1925 0.7	0116 5.3 0737 0.5 1338 5.2 1939 0.8	0132 5.8 0755 0.5 1355 5.8 1955 0.8	0207 6.4 0833 0.5 1429 6.4 2033 0.8	0237 7.1 0908 0.6 1459 7.1 2110 0.8	0257 7.0 0942 0.6 1520 7.0 2143 0.8
17 M	0114 4.3 0724 0.4 1333 4.2 1924 0.7	0130 4.7 0750 0.6 1353 4.6 1954 0.8	0146 5.3 0803 0.6 1407 5.2 2007 0.8	0203 5.8 0819 0.5 1424 5.7 2021 0.8	0237 6.4 0857 0.6 1458 6.4 2058 0.8	0307 7.1 0931 0.6 1527 7.1 2135 0.8	0326 7.1 1004 0.6 1546 7.0 2207 0.8
18 TU	0144 4.2 0749 0.5 1401 4.1 1951 0.7	0202 4.7 0815 0.7 1422 4.5 2020 0.8	0217 5.2 0829 0.7 1436 5.0 2034 0.9	0233 5.7 0844 0.6 1452 5.6 2046 0.8	0307 6.4 0921 0.6 1526 6.3 2122 0.9	0337 7.0 0956 0.7 1555 6.9 2201 0.9	0355 7.0 1026 0.6 1613 6.9 2232 0.9
19 W	0213 4.1 0813 0.6 1429 3.9 2018 0.8	0231 4.5 0842 0.8 1449 4.4 2048 0.9	0246 5.1 0855 0.8 1503 4.9 2101 1.0	0302 5.5 0908 0.8 1519 5.4 2109 0.9	0336 6.2 0943 0.8 1552 6.1 2143 1.0	0406 6.8 1019 0.8 1622 6.7 2224 1.1	0424 6.8 1049 0.8 1641 6.7 2256 1.0
20 TH	0243 4.0 0840 0.7 1459 3.8 2050 0.9	0258 4.4 0910 0.9 1515 4.2 2117 1.1	0315 4.9 0921 1.0 1531 4.7 2128 1.1	0331 5.3 0930 0.9 1547 5.2 2132 1.1	0403 6.0 1001 1.0 1619 5.8 2202 1.1	0434 6.6 1038 1.0 1650 6.5 2243 1.2	0453 6.5 1110 1.0 1710 6.5 2317 1.1
21 F	0316 3.8 0912 0.9 1533 3.6 2128 1.0	0328 4.2 0943 1.1 1547 4.1 2155 1.2	0346 4.7 0951 1.2 1604 4.5 2202 1.3	0402 5.1 0954 1.1 1620 5.0 2202 1.2	0433 5.7 1020 1.2 1650 5.6 2230 1.2	0505 6.3 1059 1.2 1722 6.2 2309 1.3	0525 6.3 1130 1.1 1743 6.2 2342 1.2
22 SA	0356 3.6 0955 1.1 1618 3.4 2222 1.1	0411 4.0 1028 1.4 1636 3.9 2250 1.4	0427 4.5 1031 1.4 1650 4.3 2253 1.5	0442 4.9 1031 1.4 1704 4.7 2252 1.4	0510 5.5 1054 1.4 1733 5.4 2315 1.4	0542 6.0 1130 1.4 1803 5.9 2350 1.5	0604 6.0 1200 1.3 1825 5.9 2350 1.5

23 SU	0451 3.4 1103 1.3 1726 3.2 2349 1.2	0514 3.8 1135 1.6 1744 3.7	0526 4.2 1135 1.7 1757 4.1	0538 4.6 1133 1.7 1809 4.4	0605 5.2 1150 1.7 1836 5.1	0635 5.7 1220 1.8 1902 5.6	0655 5.7 1246 1.6 1921 5.6	23 SU	0020 1.4 0655 5.7 1246 1.6 1921 5.6
24 M	0619 3.2 1255 1.4 1905 3.2	0017 1.5 0642 3.6 1313 1.7 1924 3.6	0015 1.6 0651 4.0 1315 1.8 1932 4.0	0009 1.6 0704 4.4 1318 1.8 1943 4.4	0025 1.7 0731 5.0 1330 2.0 2007 5.0	0053 1.8 0753 5.5 1343 2.1 2031 5.5	0116 1.7 0810 5.5 1400 2.0 2048 5.4	24 M	0116 1.7 0810 5.5 1400 2.0 2048 5.4
25 TU	0140 1.1 0804 3.3 1420 1.2 2029 3.4	0208 1.4 0826 3.8 1447 1.5 2054 3.9	0214 1.6 0832 4.2 1454 1.6 2103 4.3	0218 1.6 0843 4.5 1504 1.6 2115 4.6	0229 1.8 0908 5.1 1525 1.8 2141 5.2	0237 1.9 0936 5.7 1552 1.9 2208 5.8	0253 1.9 0956 5.6 1616 1.8 2228 5.7	25 TU	0253 1.9 0956 5.6 1616 1.8 2228 5.7
26 W	0254 0.9 0913 3.7 1520 1.0 2131 3.7	0326 1.1 0941 4.1 1552 1.2 2154 4.2	0335 1.2 0946 4.6 1600 1.3 2205 4.6	0346 1.2 0958 5.0 1613 1.3 2221 5.0	0411 1.4 1027 5.6 1642 1.3 2252 5.7	0437 1.5 1054 6.2 1708 1.4 2321 6.3	0501 1.4 1112 6.2 1733 1.4 2339 6.2	26 W	0501 1.4 1112 6.2 1733 1.4 2339 6.2
27 TH	0354 0.6 1005 4.0 1608 0.8 2221 3.9	0424 0.8 1036 4.4 1641 0.9 2241 4.4	0435 0.8 1041 5.0 1651 1.0 2254 5.0	0452 0.9 1055 5.4 1708 1.0 2311 5.4	0524 0.9 1127 6.1 1743 1.0 2345 6.1	0549 1.1 1156 6.7 1812 1.1	0615 1.0 1214 6.7 1842 1.1	27 TH	0615 1.0 1214 6.7 1842 1.1
28 F	0444 0.4 1051 4.2 1652 0.7 2306 4.2	0512 0.5 1122 4.6 1724 0.8 2323 4.6	0526 0.6 1128 5.2 1737 0.8 2338 5.2	0547 0.6 1143 5.8 1757 0.8 2356 5.7	0624 0.6 1217 6.5 1836 0.8	0016 6.7 0657 0.7 1247 7.1 1911 0.9	0034 6.7 0727 0.7 1305 7.1 1943 0.8	28 F	0034 6.7 0727 0.7 1305 7.1 1943 0.8
29 SA	0529 0.2 1134 4.4 1734 0.5 2349 4.4	0556 0.3 1205 4.8 1804 0.6	0612 0.4 1211 5.4 1820 0.7	0637 0.4 1227 6.0 1843 0.6	0030 6.4 0716 0.4 1301 6.7 1924 0.7	0102 7.1 0755 0.5 1332 7.4 2004 0.8	0122 7.0 0824 0.4 1352 7.3 2036 0.7	29 SA	0122 7.0 0824 0.4 1352 7.3 2036 0.7
30 SU	0611 0.1 1217 4.5 1815 0.4	0003 4.8 0637 0.2 1247 4.9 1845 0.5	0020 5.4 0655 0.3 1253 5.5 1902 0.6	0038 5.9 0722 0.2 1309 6.1 1927 0.5	0112 6.6 0803 0.3 1344 6.8 2009 0.6	0146 7.3 0844 0.3 1415 7.5 2051 0.6	0205 7.3 0913 0.3 1435 7.5 2123 0.6	30 SU	0205 7.3 0913 0.3 1435 7.5 2123 0.6
31 M	0032 4.5 0653 0.1 1300 4.5 1857 0.4	0045 5.0 0717 0.2 1329 4.9 1926 0.5	0102 5.6 0736 0.2 1336 5.5 1943 0.5	0120 6.1 0803 0.2 1351 6.2 2008 0.5	0154 6.8 0844 0.2 1426 6.9 2051 0.5	0227 7.5 0926 0.3 1457 7.6 2132 0.6	0247 7.4 0955 0.2 1517 7.5 2205 0.5	31 M	0247 7.4 0955 0.2 1517 7.5 2205 0.5

APRIL 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 TU	0115 4.6 0732 0.1 1343 4.4 1938 0.4	0130 5.0 0757 0.3 1410 4.8 2007 0.5	0145 5.6 0814 0.3 1418 5.4 2024 0.5	0202 6.2 0840 0.3 1434 6.0 2047 0.5	0236 6.9 0921 0.3 1508 6.8 2128 0.6	0309 7.6 1002 0.3 1539 7.5 2209 0.6	0328 7.5 1033 0.3 1558 7.4 2241 0.6
2 W	0159 4.5 0810 0.3 1426 4.3 2020 0.5	0216 5.0 0835 0.4 1449 4.7 2048 0.6	0229 5.5 0851 0.5 1500 5.3 2105 0.6	0245 6.1 0913 0.4 1516 5.8 2123 0.6	0319 6.8 0953 0.5 1549 6.5 2202 0.7	0350 7.5 1031 0.5 1619 7.2 2241 0.7	0410 7.4 1104 0.5 1639 7.1 2314 0.6
3 TH	0244 4.4 0849 0.6 1511 4.0 2106 0.6	0303 4.8 0915 0.7 1529 4.5 2133 0.8	0315 5.4 0929 0.8 1543 5.0 2148 0.8	0330 5.9 0945 0.7 1559 5.5 2201 0.7	0403 6.6 1021 0.8 1631 6.2 2236 0.8	0433 7.2 1057 0.8 1701 6.8 2313 0.8	0453 7.2 1131 0.8 1720 6.8 2346 0.8
4 F	0332 4.2 0936 0.8 1600 3.8 2201 0.7	0353 4.6 1000 1.0 1615 4.2 2228 1.0	0405 5.1 1012 1.1 1631 4.7 2238 1.0	0419 5.6 1022 1.0 1646 5.2 2247 1.0	0451 6.2 1055 1.1 1717 5.8 2317 1.0	0520 6.9 1129 1.1 1746 6.4 2352 1.1	0539 6.8 1203 1.1 1805 6.4
5 SA	0430 3.9 1036 1.1 1700 3.5 2313 0.9	0454 4.3 1102 1.4 1719 4.0 2348 1.1	0505 4.8 1108 1.4 1732 4.4 2348 1.2	0518 5.2 1115 1.4 1746 4.8 2353 1.2	0548 5.8 1144 1.5 1814 5.4	0615 6.4 1214 1.5 1840 6.0	0624 1.0 0635 6.4 1246 1.4 1859 6.0
6 SU	0546 3.6 1201 1.4 1818 3.4	0613 4.0 1231 1.6 1845 3.8	0620 4.5 1229 1.7 1853 4.2	0632 4.9 1233 1.7 1906 4.6	0619 1.3 0701 5.5 1257 1.8 1932 5.2	0646 1.4 0726 6.1 1323 1.9 1956 5.7	0116 1.3 0746 6.0 1349 1.8 2014 5.7
7 M	0050 0.9 0717 3.5 1336 1.4 1946 3.4	0121 1.2 0744 4.0 1407 1.6 2008 3.9	0125 1.3 0749 4.4 1409 1.7 2020 4.3	0128 1.3 0759 4.8 1411 1.8 2035 4.7	0126 1.4 0824 5.4 1429 1.9 2102 5.3	0211 1.5 0849 6.0 1454 2.0 2127 5.8	0236 1.4 0908 5.9 1514 1.9 2143 5.7

8	0226	0.8	0250	1.0	0258	1.1	0307	1.1	0329	1.3	0346	1.4	0405	1.3	8	TU	0405	1.3	0431	6.1	1647	1.6	2303	6.1
9	0840	3.7	0909	4.1	0914	4.6	0924	5.0	0952	5.6	1015	6.2	1031	6.1	9	W	1031	6.1	1031	6.1	1647	1.6	2303	6.1
10	1452	1.2	1522	1.4	1528	1.5	1537	1.5	1605	1.6	1626	1.7	1647	1.6	10	TH	1647	1.6	1647	1.6	1802	1.3	1802	1.3
11	2100	3.6	2120	4.1	2132	4.6	2148	5.0	2220	5.6	2246	6.1	2303	6.1	11	F	2303	6.1	2303	6.1	2344	6.5	2344	6.5
12	0335	0.6	0358	0.8	0408	0.9	0423	0.9	0454	1.0	0519	1.1	0543	1.0	12	SA	0543	1.0	0543	1.0	1142	6.5	1142	6.5
13	0941	3.9	1012	4.3	1016	4.8	1029	5.3	1059	6.0	1125	6.5	1142	6.5	13	SU	1142	6.5	1142	6.5	1802	1.3	1802	1.3
14	1545	1.0	1615	1.2	1622	1.3	1635	1.3	1708	1.3	1736	1.4	1802	1.3	14	M	1802	1.3	1802	1.3	2344	6.5	2344	6.5
15	2154	3.8	2217	4.3	2227	4.8	2244	5.2	2316	5.9	2344	6.5	2344	6.5	15	TU	2344	6.5	2344	6.5	0002	6.5	0002	6.5
16	0422	0.5	0447	0.7	0458	0.7	0515	0.7	0548	0.8	0618	0.8	0644	0.7	16	TH	0644	0.7	0644	0.7	1234	6.8	1234	6.8
17	1025	4.0	1058	4.4	1103	5.0	1116	5.5	1148	6.2	1215	6.8	1234	6.8	17	TH	1234	6.8	1234	6.8	1853	1.0	1853	1.0
18	1624	0.9	1654	1.1	1703	1.1	1716	1.1	1753	1.1	1826	1.1	1853	1.0	18	TH	1853	1.0	1853	1.0	0047	6.7	0047	6.7
19	2237	4.0	2259	4.4	2310	5.0	2327	5.4	2372	6.1	2400	6.7	2444	7.1	19	TH	2444	7.1	2444	7.1	0728	0.6	0728	0.6
20	0458	0.5	0524	0.6	0535	0.7	0553	0.6	0600	0.6	0629	0.7	0644	0.7	20	TH	0644	0.7	0644	0.7	1315	6.9	1315	6.9
21	1102	4.1	1134	4.5	1140	5.1	1154	5.6	1227	6.3	1255	6.9	1315	6.9	21	F	1315	6.9	1315	6.9	1934	0.9	1934	0.9
22	1656	0.8	1726	0.9	1738	1.0	1754	0.9	1831	1.0	1906	1.0	1934	0.9	22	F	1934	0.9	1934	0.9	0047	6.7	0047	6.7
23	2312	4.1	2332	4.5	2345	5.1	2372	5.4	2400	6.1	2429	6.7	2444	7.1	23	F	2444	7.1	2444	7.1	0728	0.6	0728	0.6
24	0527	0.4	0553	0.6	0605	0.7	0624	0.6	0670	0.7	0734	0.7	0804	0.6	24	F	0804	0.6	0804	0.6	1315	6.9	1315	6.9
25	1134	4.1	1202	4.5	1210	5.1	1226	5.6	1300	6.3	1329	7.0	1350	6.9	25	F	1350	6.9	1350	6.9	2011	0.9	2011	0.9
26	1727	0.7	1756	0.8	1810	0.9	1826	0.8	1905	0.9	1940	0.9	1984	0.9	26	F	1984	0.9	1984	0.9	0047	6.7	0047	6.7
27	2344	4.1	2344	4.1	2345	5.1	2372	5.4	2400	6.1	2429	6.7	2444	7.1	27	F	2444	7.1	2444	7.1	0728	0.6	0728	0.6
28	0554	0.4	0600	0.6	0616	0.7	0633	0.6	0670	0.7	0734	0.7	0804	0.6	28	F	0804	0.6	0804	0.6	1315	6.9	1315	6.9
29	1205	4.2	1234	4.6	1239	5.2	1255	5.7	1329	6.4	1359	7.0	1420	7.0	29	F	1420	7.0	1420	7.0	2011	0.9	2011	0.9
30	1759	0.7	1828	0.8	1841	0.8	1857	0.8	1935	0.8	2011	0.9	2043	0.8	30	F	2043	0.8	2043	0.8	0047	6.7	0047	6.7
31	0015	4.2	0030	4.7	0047	5.2	0104	5.7	0137	6.3	0170	6.9	0186	6.9	31	F	0186	6.9	0186	6.9	0728	0.6	0728	0.6
32	0622	0.5	0648	0.6	0670	0.7	0718	0.6	0755	0.7	0830	0.7	0902	0.7	32	F	0902	0.7	0902	0.7	1448	7.0	1448	7.0
33	1234	4.2	1251	4.6	1307	5.2	1323	5.7	1357	6.4	1427	7.0	1448	7.0	33	F	1448	7.0	1448	7.0	2112	0.8	2112	0.8
34	1829	0.6	1858	0.8	1912	0.8	1926	0.8	2004	0.8	2040	0.9	2112	0.8	34	F	2112	0.8	2112	0.8	0047	6.7	0047	6.7
35	0045	4.2	0103	4.7	0119	5.2	0135	5.7	0208	6.4	0238	7.0	0258	7.0	35	F	0258	7.0	0258	7.0	0929	0.7	0929	0.7
36	0650	0.5	0716	0.7	0729	0.7	0745	0.7	0822	0.7	0857	0.7	0929	0.7	36	F	0929	0.7	0929	0.7	1514	7.0	1514	7.0
37	1302	4.2	1321	4.6	1336	5.2	1352	5.7	1426	6.4	1455	7.0	1514	7.0	37	F	1514	7.0	1514	7.0	2144	7.0	2144	7.0
38	1858	0.7	1928	0.8	1941	0.8	1954	0.8	2031	0.8	2109	0.9	2144	7.0	38	F	2144	7.0	2144	7.0	0047	6.7	0047	6.7

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	WALTON-ON-THE-NAZE	MARGATE	SHIVERING SAND	SOUTHEND -ON-SEA	TILBURY	NORTH WOOLWICH (TOWER PIER)	LONDON BRIDGE
	Time m	Time m	Time m	Time m	Time m	Time m	Time m
16 W	0117 4.2 0715 0.6 1331 4.1 1926 0.7	0136 4.6 0743 0.8 1351 4.5 1956 0.7	0151 5.2 0757 0.8 1405 5.1 2009 0.9	0206 5.6 0811 0.7 1421 5.6 2021 0.9	0240 6.3 0848 0.8 1454 6.3 2057 0.9	0309 7.0 0924 0.8 1524 6.9 2136 0.9	0328 6.9 0954 0.7 1542 6.9 2207 0.9
17 TH	0148 4.0 0740 0.7 1400 4.0 1955 0.7	0208 4.5 0811 0.9 1420 4.4 2026 0.9	0222 5.0 0824 0.9 1433 4.9 2037 1.0	0237 5.5 0837 0.9 1449 5.4 2046 0.9	0310 6.1 0912 0.9 1523 6.1 2120 1.0	0341 6.8 0949 0.9 1553 6.7 2200 1.1	0358 6.7 1019 0.9 1612 6.7 2232 1.0
18 F	0220 3.9 0809 0.8 1432 3.8 2028 0.8	0238 4.3 0842 1.0 1446 4.3 2058 1.0	0252 4.8 0852 1.1 1503 4.8 2107 1.1	0308 5.3 0901 1.0 1519 5.2 2112 1.0	0341 5.9 0934 1.1 1552 5.9 2143 1.1	0412 6.5 1012 1.1 1623 6.4 2223 1.1	0431 6.5 1043 1.1 1643 6.5 2255 1.1
19 SA	0255 3.8 0844 0.9 1508 3.7 2108 0.9	0310 4.2 0917 1.2 1520 4.1 2139 1.1	0326 4.7 0925 1.2 1538 4.6 2144 1.2	0342 5.1 0930 1.2 1553 5.0 2146 1.1	0414 5.7 0959 1.2 1624 5.7 2213 1.2	0446 6.3 1038 1.3 1656 6.2 2252 1.2	0506 6.3 1109 1.2 1718 6.2 2323 1.1
20 SU	0337 3.6 0930 1.1 1554 3.5 2203 1.0	0354 4.0 1004 1.4 1610 4.0 2234 1.3	0409 4.5 1008 1.4 1624 4.4 2236 1.3	0424 4.9 1012 1.4 1639 4.8 2236 1.3	0454 5.5 1036 1.4 1708 5.4 2259 1.3	0526 6.1 1113 1.5 1738 6.0 2334 1.4	0547 6.1 1142 1.4 1801 6.0 2357 1.4
21 M	0432 3.5 1036 1.3 1658 3.3 2325 1.1	0458 3.9 1109 1.5 1717 3.8 2356 1.3	0509 4.3 1112 1.6 1730 4.2 2354 1.4	0521 4.7 1115 1.6 1742 4.6 2350 1.4	0549 5.3 1132 1.7 1809 5.2 1934 5.1	0619 5.9 1203 1.8 1837 5.7 1959 5.7	0640 5.8 1229 1.6 1857 5.7 2015 5.6
22 TU	0550 3.4 1214 1.4 1827 3.3	0620 3.8 1240 1.6 1844 3.8	0628 4.2 1240 1.7 1856 4.2	0640 4.6 1248 1.8 1909 4.5	0705 5.2 1307 1.9 1934 5.1	0733 5.7 1323 2.0 1959 5.7	0751 5.7 1343 1.9 2015 5.6

23 W	0105 1.0 0727 3.5 1340 1.2 1949 3.5	0134 1.2 0751 3.9 1408 1.4 2010 4.0	0138 1.4 0757 4.4 1411 1.6 2021 4.4	0142 1.4 0808 4.8 1422 1.6 2035 4.8	0158 1.5 0836 5.4 1447 1.7 2102 5.4	0208 1.7 0904 5.9 1515 1.8 2130 5.9	0230 1.6 0923 5.9 1537 1.7 2149 5.9	23 W
24 TH	0219 0.8 0837 3.8 1442 1.0 2053 3.7	0250 0.9 0905 4.2 1515 1.2 2114 4.2	0259 1.1 0911 4.7 1522 1.3 2127 4.7	0310 1.1 0923 5.2 1533 1.2 2143 5.1	0332 1.2 0952 5.8 1602 1.3 2213 5.8	0400 1.3 1019 6.4 1631 1.4 2243 6.4	0424 1.3 1037 6.3 1654 1.3 2301 6.3	24 TH
25 F	0320 0.5 0933 4.0 1534 0.8 2147 4.0	0349 0.7 1002 4.5 1607 0.9 2205 4.5	0401 0.8 1009 5.0 1617 1.0 2220 5.0	0416 0.8 1022 5.5 1632 1.0 2237 5.5	0446 0.8 1055 6.2 1705 1.0 2310 6.2	0511 0.9 1123 6.8 1735 1.1 2341 6.8	0535 0.9 1140 6.8 1802 1.0 2341 6.8	25 F
26 SA	0413 0.3 1022 4.3 1622 0.7 2236 4.2	0440 0.5 1051 4.7 1654 0.8 2251 4.7	0454 0.5 1058 5.3 1707 0.8 2308 5.3	0514 0.5 1113 5.8 1725 0.8 2325 5.8	0550 0.6 1147 6.5 1803 0.8 2359 6.4	0621 0.7 1216 7.2 1838 0.9 2341 6.8	0600 6.8 0652 0.6 1235 7.1 1910 0.9	26 SA
27 SU	0500 0.2 1107 4.4 1708 0.5 2322 4.4	0526 0.4 1136 4.8 1738 0.6 2336 4.8	0543 0.4 1144 5.4 1754 0.7 2353 5.4	0606 0.4 1159 6.0 1816 0.7 2325 5.8	0646 0.4 1234 6.7 1857 0.7 2359 6.4	0032 7.1 0723 0.5 1304 7.4 1936 0.8	0051 7.1 0754 0.5 1324 7.3 2008 0.7	27 SU
28 M	0545 0.2 1152 4.5 1753 0.5	0610 0.3 1219 4.8 1822 0.5	0628 0.3 1228 5.5 1840 0.6	0010 6.0 0654 0.3 1243 6.1 1905 0.6	0045 6.7 0735 0.4 1318 6.8 1947 0.6	0118 7.3 0815 0.5 1350 7.5 2027 0.7	0138 7.3 0845 0.4 1410 7.4 2059 0.6	28 M
29 TU	0008 4.5 0628 0.2 1303 4.5 1839 0.4	0024 4.9 0652 0.3 1303 4.8 1908 0.5	0039 5.6 0711 0.4 1312 5.5 1925 0.5	0056 6.1 0737 0.3 1327 6.1 1950 0.5	0130 6.8 0818 0.4 1402 6.8 2033 0.6	0203 7.5 0859 0.5 1433 7.5 2113 0.6	0223 7.4 0929 0.5 1453 7.4 2144 0.5	29 TU
30 W	0054 4.6 0710 0.3 1322 4.4 1924 0.4	0115 5.0 0735 0.5 1346 4.8 1953 0.5	0127 5.6 0752 0.5 1356 5.4 2010 0.6	0142 6.2 0817 0.5 1412 6.0 2033 0.5	0216 6.9 0857 0.5 1446 6.7 2115 0.6	0248 7.5 0938 0.6 1517 7.3 2153 0.6	0308 7.5 1008 0.5 1536 7.3 2224 0.5	30 W

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	WALTON-ON-THE-NAZE	MARGATE	SHIVERING SAND	SOUTHEND -ON-SEA	TILBURY	NORTH WOOLWICH (TOWER PIER)	LONDON BRIDGE
	Time m	Time m	Time m	Time m	Time m	Time m	Time m
1 TH	0141 4.5 0750 0.5 2010 4.2 2010 0.4	0207 4.9 0816 0.7 1429 4.7 2039 0.6	0215 5.5 0831 0.7 1441 5.2 2054 0.6	0229 6.1 0853 0.7 1456 5.8 2114 0.6	0303 6.8 0932 0.7 1529 6.5 2153 0.7	0334 7.4 1009 0.8 1600 7.1 2228 0.7	0353 7.4 1042 0.7 1619 7.0 2300 0.6
2 F	0229 4.3 0831 0.8 1453 4.0 2058 0.5	0257 4.8 0858 0.9 1512 4.5 2129 0.7	0305 5.3 0911 1.0 1526 5.0 2140 0.8	0319 5.8 0927 0.9 1542 5.5 2154 0.7	0351 6.5 1003 1.0 1614 6.1 2229 0.8	0421 7.2 1038 1.0 1643 6.7 2302 0.8	0440 7.1 1111 0.9 1702 6.7 2333 0.7
3 SA	0320 4.1 0918 1.0 1544 3.8 2154 0.6	0349 4.5 0946 1.2 1559 4.3 2228 0.9	0358 5.1 0956 1.3 1615 4.8 2233 0.9	0411 5.5 1005 1.2 1631 5.2 2240 0.9	0443 6.2 1038 1.3 1701 5.8 2311 1.0	0510 6.8 1112 1.3 1730 6.3 2342 1.0	0529 6.8 1145 1.2 1748 6.3
4 SU	0419 3.9 1016 1.3 1642 3.6 2305 0.7	0447 4.3 1045 1.4 1659 4.1 2340 1.0	0456 4.8 1050 1.6 1714 4.5 2340 1.1	0510 5.2 1056 1.5 1729 4.9 2344 1.1	0540 5.9 1126 1.6 1758 5.5	0606 6.4 1157 1.6 1824 6.0	0625 6.4 1228 1.5 1841 6.0
5 M	0529 3.6 1133 1.4 1750 3.5	0559 4.1 1204 1.6 1817 4.0	0604 4.5 1202 1.8 1826 4.4	0617 5.0 1205 1.7 1840 4.7	0609 1.2 0645 5.6 1231 1.8 1907 5.3	0635 1.2 0712 6.2 1258 1.9 1933 5.8	0703 1.1 0730 6.1 1325 1.7 1949 5.8
6 TU	0029 0.8 0646 3.6 1257 1.4 1905 3.5	0058 1.0 0717 4.0 1330 1.6 1931 4.0	0102 1.1 0721 4.5 1330 1.8 1942 4.4	0108 1.2 0731 4.9 1332 1.8 1956 4.8	0126 1.3 0756 5.5 1352 1.9 2022 5.3	0150 1.4 0822 6.1 1417 1.9 2049 5.9	0214 1.3 0840 6.0 1440 1.8 2106 5.8
7 W	0148 0.7 0802 3.6 1407 1.3 2017 3.6	0212 1.0 0829 4.1 1439 1.5 2035 4.1	0220 1.1 0836 4.6 1445 1.6 2050 4.5	0228 1.1 0845 5.0 1450 1.6 2105 4.9	0248 1.2 0912 5.6 1513 1.7 2135 5.5	0310 1.3 0935 6.2 1539 1.8 2201 6.1	0330 1.2 0952 6.1 1559 1.7 2217 6.0

8	0256	0.7	0314	0.9	0325	1.0	0336	1.0	0402	1.1	0420	1.1	0439	1.1	8
TH	0903	3.8	0930	4.2	0937	4.7	0948	5.2	1019	5.8	1043	6.4	1100	6.3	TH
	1503	1.1	1533	1.3	1541	1.4	1549	1.4	1618	1.5	1646	1.5	1709	1.4	
	2115	3.7	2131	4.2	2146	4.7	2201	5.1	2234	5.8	2301	6.3	2318	6.3	
9	0343	0.6	0403	0.8	0414	0.9	0427	0.9	0457	0.9	0520	1.0	0544	0.9	9
F	0950	3.9	1017	4.3	1024	4.9	1037	5.3	1109	6.0	1136	6.6	1155	6.5	F
	1546	1.0	1615	1.2	1625	1.3	1635	1.2	1708	1.3	1739	1.3	1805	1.2	
	2200	3.9	2216	4.3	2231	4.8	2247	5.3	2320	6.0	2350	6.5			
10	0419	0.6	0441	0.8	0452	0.9	0506	0.8	0538	0.9	0607	0.9	0608	6.5	10
SA	1028	4.0	1053	4.4	1103	4.9	1117	5.4	1150	6.1	1219	6.7	0634	0.8	SA
	1622	0.9	1652	1.0	1703	1.1	1715	1.1	1750	1.1	1823	1.1	1238	6.7	
	2238	4.0	2254	4.4	2310	5.0	2326	5.4					1851	1.1	
11	0449	0.6	0514	0.8	0525	0.9	0539	0.8	0600	6.1	0630	6.7	0649	6.7	11
SU	1102	4.0	1123	4.5	1136	5.0	1152	5.5	0614	0.8	0646	0.9	0715	0.8	SU
	1657	0.8	1727	0.9	1739	1.0	1753	1.0	1225	6.2	1255	6.8	1315	6.8	
	2312	4.0	2329	4.5	2345	5.0			1828	1.0	1903	1.1	1932	1.0	
12	0519	0.6	0545	0.8	0558	0.8	0602	5.5	0635	6.2	0106	6.8	0126	6.8	12
M	1134	4.1	1151	4.5	1207	5.1	0613	0.8	0648	0.8	0722	0.9	0752	0.8	M
O	1732	0.7	1802	0.9	1814	1.0	1223	5.6	1256	6.3	1327	6.8	1348	6.8	O
	2346	4.1					1828	0.9	1904	1.0	1939	1.0	2009	0.9	
13	0551	0.7	0603	4.5	0620	5.1	0636	5.6	0109	6.3	0140	6.9	0201	6.8	13
TU	1205	4.1	0616	0.8	0630	0.9	0645	0.8	0721	0.9	0755	0.9	0826	0.8	TU
	1805	0.7	1221	4.5	1237	5.1	1254	5.6	1327	6.3	1357	6.9	1418	6.8	
			1835	0.8	1848	0.9	1902	0.9	1938	0.9	2013	1.0	2044	0.9	
14	0020	4.1	0039	4.5	0054	5.1	0110	5.6	0143	6.3	0213	6.9	0233	6.8	14
W	0621	0.7	0647	0.8	0701	0.9	0715	0.8	0751	0.9	0827	0.9	0858	0.9	W
	1236	4.1	1253	4.5	1309	5.1	1325	5.6	1358	6.3	1427	6.9	1447	6.8	
	1837	0.7	1908	0.9	1920	0.9	1933	0.9	2008	1.0	2045	1.0	2117	0.9	
15	0054	4.1	0115	4.5	0129	5.0	0144	5.5	0217	6.2	0247	6.8	0305	6.7	15
TH	0648	0.8	0718	0.9	0731	1.0	0744	0.9	0819	1.0	0856	1.0	0928	0.9	TH
	1307	4.0	1326	4.5	1341	5.0	1357	5.5	1430	6.2	1459	6.8	1518	6.7	
	1909	0.7	1940	0.9	1952	0.9	2003	0.9	2038	1.0	2116	1.0	2149	0.9	

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	WALTON-ON-THE-NAZE	MARGATE	SHIVERING SAND	SOUTHEND -ON-SEA	TILBURY	NORTH WOOLWICH (TOWER PIER)	LONDON BRIDGE
	Time m	Time m	Time m	Time m	Time m	Time m	Time m
16 F	0128 4.0 0717 0.8 1340 4.0 1942 0.7	0151 4.4 0750 1.0 1400 4.4 2014 0.9	0203 4.9 0801 1.0 1414 4.9 2024 1.0	0219 5.4 0813 1.0 1429 5.4 2035 1.0	0251 6.1 0847 1.0 1502 6.0 2107 1.0	0321 6.7 0925 1.0 1533 6.6 2145 1.1	0339 6.6 0958 1.0 1551 6.6 2218 1.0
17 SA	0203 3.9 0750 0.9 1415 3.9 2019 0.8	0228 4.3 0824 1.1 1433 4.3 2052 1.0	0239 4.8 0834 1.1 1447 4.8 2100 1.0	0254 5.3 0845 1.1 1503 5.2 2108 1.0	0326 5.9 0918 1.1 1536 5.9 2137 1.1	0357 6.5 0955 1.1 1607 6.4 2214 1.1	0415 6.5 1027 1.1 1627 6.4 2245 1.1
18 SU	0242 3.8 0830 1.0 1455 3.8 2103 0.8	0308 4.2 0905 1.2 1511 4.2 2137 1.0	0318 4.7 0913 1.3 1525 4.7 2142 1.1	0332 5.2 0923 1.2 1541 5.1 2147 1.1	0404 5.8 0953 1.3 1612 5.7 2213 1.2	0435 6.4 1029 1.3 1644 6.3 2248 1.2	0455 6.3 1059 1.2 1705 6.2 2317 1.1
19 M	0326 3.7 0919 1.1 1542 3.6 2158 0.8	0354 4.1 0953 1.3 1559 4.1 2232 1.1	0403 4.6 1000 1.4 1613 4.6 2235 1.2	0417 5.0 1009 1.4 1627 5.0 2237 1.1	0448 5.7 1036 1.4 1657 5.6 2258 1.2	0519 6.2 1109 1.4 1728 6.1 2331 1.3	0539 6.2 1137 1.3 1749 6.1 2358 1.2
20 TU	0421 3.6 1021 1.2 1641 3.5 2310 0.8	0451 4.0 1052 1.4 1658 4.0 2341 1.1	0500 4.5 1059 1.5 1712 4.5 2343 1.2	0512 4.9 1108 1.5 1726 4.8 2344 1.2	0543 5.6 1132 1.6 1753 5.5	0612 6.1 1200 1.6 1823 6.0	0631 6.1 1226 1.5 1842 6.0
21 W	0529 3.6 1137 1.3 1754 3.5	0559 4.0 1202 1.5 1809 4.0	0608 4.5 1824 4.5	0620 4.9 1222 1.6 1838 4.8	0001 1.3 0652 5.5 1249 1.7 1906 5.4	0027 1.4 0718 6.1 1311 1.7 1932 6.0	0052 1.3 0736 6.0 1334 1.6 1948 5.9
22 TH	0032 0.8 0649 3.7 1256 1.2 1908 3.6	0101 1.0 0715 4.1 1324 1.4 1926 4.1	0104 1.1 0722 4.6 1328 1.5 1939 4.6	0111 1.1 0735 5.0 1340 1.5 1955 5.0	0132 1.4 0806 5.7 1409 1.6 2025 5.6	0149 1.4 0834 6.2 1437 1.6 2053 6.1	0216 1.3 0853 6.1 1501 1.6 2112 6.1

23 F	0143 0758 1402 2015	0.7 3.9 1.1 3.8	0213 0826 1435 2032	0.8 4.3 1.2 4.3	0220 0832 1440 2047	1.0 4.8 1.3 4.8	0231 0846 1452 2104	1.0 5.2 1.3 5.2	0254 0916 1521 2135	1.1 5.9 1.3 5.9	0323 0945 1552 2206	1.2 6.5 1.4 6.4	0348 1004 1616 2225	1.1 6.4 1.3 6.4	23 F
24 SA	0246 0859 1500 2114	0.5 4.0 0.9 4.0	0314 0926 1533 2130	0.7 4.5 1.0 4.5	0325 0934 1542 2146	0.8 5.0 1.1 5.0	0339 0948 1555 2203	0.8 5.5 1.1 5.5	0405 1020 1628 2236	0.8 6.2 1.1 6.1	0433 1049 1700 2308	0.9 6.8 1.1 6.7	0457 1107 1725 2327	0.8 6.7 1.1 6.7	24 SA
25 SU	0342 0952 1554 2208	0.4 4.2 0.8 4.2	0408 1019 1625 2222	0.6 4.6 0.8 4.7	0422 1029 1638 2240	0.7 5.2 0.9 5.2	0440 1043 1655 2257	0.6 5.7 0.9 5.7	0513 1117 1732 2331	0.7 6.4 0.9 6.4	0541 1147 1805 2308	0.8 7.0 1.0 6.7	0609 1206 1836 2309	0.7 7.0 0.9 6.9	25 SU
26 M	0434 1042 1646 2259	0.4 4.3 0.6 4.3	0458 1108 1715 2315	0.5 4.7 0.7 4.8	0515 1119 1731 2332	0.6 5.3 0.8 5.3	0537 1134 1752 2347	0.6 5.8 0.8 5.9	0614 1208 1832	0.6 6.5 0.8	0603 0649 1239 1909	7.0 7.2 7.2 0.9	0023 0721 1259 1941	7.0 0.6 7.1 0.8	26 M
27 TU	0523 1130 1737 2348	0.4 4.3 0.5 4.5	0546 1155 1805	0.5 4.7 0.6	0604 1206 1823	0.6 5.3 0.7	0628 1221 1847	0.6 5.9 0.6	0708 1256 1928	0.6 6.6 0.7	0022 0708 1256 1928	6.6 7.2 6.6 0.7	0055 0747 1327 2006	7.2 0.7 7.2 0.7	27 TU
28 W	0609 1217 1828	0.5 4.3 0.4	0011 0632 1242	4.8 0.6 4.7	0023 0651 1253	5.4 0.6 5.3	0037 0716 1308	6.0 0.6 5.9	0111 0756 1342	6.7 0.7 6.6	0144 0836 1413	7.3 0.6 7.2	0204 0905 1434	7.3 0.6 7.2	28 W
29 TH	0038 0654 1304 1918	4.5 0.6 4.3 0.4	0106 0718 1328 1946	4.9 0.7 4.7 0.5	0114 0735 1340 2002	5.5 0.8 5.3 0.6	0127 0759 1354 2026	6.0 0.9 5.8 0.5	0201 0839 1428 2106	6.8 0.7 6.6 0.6	0233 0918 1459 2143	7.4 0.8 7.2 0.6	0252 0948 1519 2212	7.3 0.7 7.1 0.5	29 TH
30 F	0127 0737 1351 2007	4.4 0.7 4.2 0.4	0159 0803 1413 2037	4.8 0.8 4.7 0.6	0206 0818 1426 2050	5.4 0.9 5.2 0.6	0218 0839 1441 2110	6.0 0.9 5.7 0.6	0251 0917 1514 2149	6.7 0.9 6.4 0.6	0322 0955 1545 2224	7.3 0.9 7.0 0.7	0341 1026 1604 2253	7.2 0.8 6.9 0.5	30 F
31 SA	0216 0819 1438 2056	4.3 0.9 4.1 0.5	0249 0847 1457 2128	4.7 1.0 4.5 0.6	0257 0900 1512 2137	5.3 1.1 5.0 0.7	0310 0915 1528 2153	5.8 1.1 5.5 0.7	0342 0952 1600 2229	6.5 1.1 6.2 0.8	0411 1027 1630 2300	7.1 1.1 6.7 0.8	0430 1059 1648 2330	7.0 1.0 6.7 0.7	31 SA

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	WALTON-ON-THE-NAZE	MARGATE	SHIVERING SAND	SOUTHEND -ON-SEA	TILBURY	NORTH WOOLWICH (TOWER PIER)	LONDON BRIDGE
	Time m	Time m	Time m	Time m	Time m	Time m	Time m
1 SU	0308 4.1 0902 1.1 1527 3.9 2148 0.6	0339 4.5 0932 1.2 1542 4.4 2220 0.7	0347 5.1 0942 1.3 1559 4.9 2227 0.8	0401 5.6 0952 1.3 1616 5.3 2237 0.8	0433 6.3 1027 1.3 1647 5.9 2308 0.9	0501 6.8 1101 1.3 1715 6.4 2338 0.9	0519 6.8 1133 1.2 1732 6.4
2 M	0402 3.9 0952 1.2 1619 3.8 2246 0.6	0431 4.3 1021 1.4 1634 4.3 2317 0.8	0439 4.8 1029 1.5 1650 4.7 2321 0.9	0454 5.3 1035 1.4 1707 5.1 2328 0.9	0526 6.0 1107 1.5 1737 5.7 2355 1.0	0553 6.5 1141 1.5 1804 6.2	0006 0.8 0611 6.5 1211 1.4 1820 6.2
3 TU	0501 3.7 1051 1.4 1715 3.7 2350 0.7	0530 4.1 1120 1.5 1736 4.1	0536 4.7 1124 1.6 1748 4.6	0550 5.1 1128 1.6 1804 4.9	0620 5.8 1158 1.6 1833 5.5	0022 1.1 0647 6.3 1228 1.7 1900 6.0	0049 0.9 0706 6.2 1256 1.6 1916 6.0
4 W	0602 3.6 1202 1.4 1814 3.6	0019 0.9 0634 4.0 1232 1.6 1843 4.1	0022 1.1 0637 4.5 1230 1.7 1851 4.5	0029 1.0 0650 4.9 1233 1.7 1907 4.8	0052 1.1 0717 5.6 1259 1.8 1934 5.5	0116 1.2 0745 6.1 1325 1.8 2002 5.9	0143 1.1 0804 6.1 1351 1.7 2020 5.9
5 TH	0053 0.8 0706 3.6 1309 1.4 1917 3.6	0121 1.0 0736 4.0 1342 1.6 1944 4.1	0126 1.1 0742 4.5 1344 1.7 1955 4.5	0133 1.1 0752 4.9 1346 1.7 2010 4.9	0154 1.2 0818 5.5 1407 1.8 2037 5.5	0219 1.3 0845 6.1 1432 1.9 2106 6.0	0245 1.1 0903 6.0 1459 1.7 2124 5.9
6 F	0152 0.8 0809 3.6 1408 1.3 2019 3.6	0217 1.0 0833 4.1 1441 1.5 2039 4.1	0225 1.1 0843 4.5 1447 1.6 2054 4.6	0232 1.1 0853 4.9 1451 1.6 2109 4.9	0254 1.2 0920 5.6 1513 1.7 2139 5.6	0321 1.3 0945 6.1 1542 1.8 2207 6.1	0345 1.1 1002 6.1 1609 1.6 2224 6.1
7 SA	0244 0.8 0903 3.7 1500 1.2 2114 3.7	0308 1.0 0923 4.2 1531 1.3 2131 4.2	0318 1.1 0935 4.6 1541 1.5 2147 4.7	0326 1.1 0947 5.0 1546 1.4 2202 5.1	0350 1.2 1017 5.7 1613 1.5 2234 5.7	0418 1.2 1043 6.2 1644 1.6 2303 6.3	0441 1.1 1100 6.2 1709 1.5 2321 6.3

8	0329	0.8	0353	1.0	0404	1.1	0414	1.0	0442	1.1	0511	1.2	0536	1.1	8	SU	1533	6.4	1804	1.3
	0949	3.8	1007	4.3	1021	4.7	1034	5.2	1106	5.8	1134	6.4	1153	6.4						
	1547	1.0	1617	1.2	1627	1.3	1636	1.3	1705	1.3	1738	1.4	1753	1.4						
	2200	3.8	2218	4.3	2234	4.8	2249	5.2	2322	5.9	2352	6.4								
9	0410	0.8	0435	1.0	0447	1.1	0459	1.0	0530	1.1	0601	1.1	0611	6.4	9	M	0627	1.0	1238	6.5
	1028	3.9	1046	4.3	1101	4.8	1116	5.3	1148	6.0	1218	6.5	1237	6.5						
	1630	0.9	1700	1.1	1711	1.2	1722	1.1	1754	1.2	1826	1.2	1853	1.1						
	2242	3.9	2301	4.3	2317	4.8	2332	5.3												
10	0449	0.8	0515	1.0	0527	1.1	0541	1.0	0606	6.0	0636	6.6	0656	6.5	10	TU	0715	1.0	1939	1.0
	1105	4.0	1122	4.4	1138	4.9	1154	5.4	0615	1.1	0647	1.1	0715	1.0						
	1711	0.8	1741	1.0	1751	1.1	1805	1.1	1227	6.1	1257	6.6	1317	6.6						
	2321	4.0	2341	4.4	2356	4.9			1838	1.1	1911	1.1	1939	1.0						
11	0526	0.8	0552	1.0	0605	1.1	0612	5.4	0646	6.1	0716	6.6	0737	6.6	11	W	0757	1.0	1354	6.6
	1140	4.0	1156	4.5	1213	5.0	1230	5.4	0654	1.1	0728	1.1	0757	1.0						
	1749	0.8	1819	0.9	1830	1.0	1845	1.0	1303	6.1	1333	6.7	1354	6.6						
	2359	4.0			1907	1.0	1922	1.0	1919	1.1	1952	1.1	2022	1.0						
12	0600	0.9	0620	4.4	0635	4.9	0650	5.4	0724	6.1	0754	6.7	0814	6.6	12	TH	0836	1.0	1429	6.6
	1216	4.0	0627	1.0	0640	1.1	0655	1.0	0729	1.1	0804	1.1	0836	1.0						
	1826	0.8	1231	4.5	1249	5.0	1305	5.5	1339	6.1	1409	6.7	1429	6.6						
			1855	0.9	1907	1.0	1922	1.0	1956	1.1	2031	1.1	2103	0.9						
13	0036	4.0	0058	4.4	0113	5.0	0128	5.4	0201	6.1	0231	6.7	0251	6.6	13	F	0913	1.1	1504	6.6
	0632	0.9	0701	1.0	0714	1.0	0727	1.0	0801	1.1	0838	1.1	0913	1.1						
	1251	4.0	1308	4.5	1325	5.0	1341	5.5	1415	6.1	1445	6.7	1504	6.6						
	1902	0.7	1932	0.9	1944	0.9	1958	0.9	2032	1.0	2107	1.0	2141	0.9						
14	0114	4.0	0139	4.4	0151	5.0	0206	5.4	0239	6.1	0309	6.7	0328	6.6	14	SA	0948	1.0	1540	6.6
	0705	0.9	0748	1.0	0748	1.1	0801	1.0	0835	1.1	0913	1.1	0948	1.0						
	1328	4.0	1346	4.5	1402	5.0	1418	5.4	1451	6.1	1522	6.6	1540	6.6						
	1940	0.7	2010	0.8	2022	0.9	2035	0.9	2108	1.0	2143	1.0	2218	0.9						
15	0152	4.0	0221	4.4	0231	4.9	0246	5.4	0317	6.1	0348	6.6	0406	6.6	15	SU	1023	1.1	1618	6.5
	0742	0.9	0815	1.0	0826	1.1	0839	1.1	0913	1.1	0950	1.1	1023	1.1						
	1407	4.0	1424	4.4	1439	4.9	1456	5.3	1528	6.0	1559	6.5	1618	6.5						
	2021	0.7	2052	0.8	2102	0.9	2114	0.9	2146	1.0	2218	1.0	2252	0.9						

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	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 M	0233 4.0 0823 1.0 1447 3.9 2105 0.7	0304 4.3 0857 1.1 1505 4.4 2136 0.8	0313 4.9 0908 1.2 1519 4.8 2145 0.9	0327 5.3 0921 1.1 1535 5.3 2156 0.9	0358 6.0 0955 1.2 1606 5.9 2226 1.0	0428 6.6 1029 1.2 1637 6.5 2254 1.0	0447 6.5 1100 1.1 1657 6.4 2325 1.0
17 TU	0317 3.9 0910 1.0 1532 3.8 2154 0.7	0349 4.3 0942 1.2 1548 4.3 2225 0.9	0357 4.8 0953 1.3 1603 4.8 2233 0.9	0411 5.3 1007 1.2 1618 5.2 2242 0.9	0443 5.9 1039 1.3 1649 5.8 2309 1.0	0512 6.5 1111 1.3 1719 6.4 2335 1.1	0531 6.5 1139 1.2 1738 6.4
18 W ☾	0408 3.8 1003 1.1 1623 3.8 2251 0.7	0438 4.2 1032 1.3 1638 4.3 2321 0.9	0448 4.8 1044 1.4 1654 4.8 2327 1.0	0501 5.2 1057 1.3 1708 5.1 2334 1.0	0533 5.9 1128 1.4 1738 5.8	0601 6.4 1158 1.4 1807 6.3	0603 1.0 0620 6.4 1224 1.3 1825 6.3
19 TH	0507 3.8 1104 1.2 1723 3.8 2358 0.7	0534 4.2 1129 1.3 1736 4.3	0545 4.7 1141 1.4 1753 4.7	0559 5.2 1154 1.4 1808 5.1	0600 1.1 0631 5.8 1225 1.4 1837 5.8	0624 1.1 0658 6.4 1253 1.5 1904 6.3	0651 1.0 0717 6.3 1319 1.4 1921 6.2
20 F	0614 3.8 1213 1.2 1830 3.8	0626 0.9 0638 4.2 1238 1.3 1843 4.3	0631 1.0 0648 4.7 1247 1.4 1901 4.7	0639 1.0 0703 5.2 1259 1.4 1917 5.1	0105 1.1 0735 5.8 1331 1.5 1948 5.8	0127 1.1 0804 6.4 1400 1.5 2015 6.3	0156 1.1 0824 6.3 1426 1.4 2034 6.2
21 SA	0107 0.7 0722 3.8 1323 1.1 1939 3.9	0135 0.8 0747 4.3 1354 1.3 1955 4.3	0141 0.9 0755 4.8 1400 1.4 2011 4.8	0151 0.9 0810 5.2 1411 1.3 2028 5.2	0216 1.0 0842 5.9 1442 1.4 2100 5.9	0245 1.1 0912 6.4 1514 1.5 2131 6.4	0313 1.0 0932 6.4 1541 1.4 2151 6.4
22 SU	0213 0.6 0827 3.9 1430 1.0 2046 4.0	0240 0.8 0852 4.3 1501 1.1 2101 4.4	0250 0.9 0902 4.8 1511 1.3 2118 4.9	0302 0.9 0916 5.3 1523 1.2 2135 5.3	0327 1.0 0948 6.0 1554 1.3 2207 6.0	0357 1.1 1018 6.6 1627 1.3 2239 6.6	0423 0.9 1037 6.5 1654 1.2 2259 6.5

23 M	0316 0.6 0928 4.0 1533 0.9 2147 4.1	0340 0.8 0952 4.4 1602 1.0 2204 4.5	0354 0.9 1004 4.9 1616 1.1 2221 5.0	0410 0.9 1018 5.4 1631 1.0 2236 5.5	0439 0.9 1051 6.1 1706 1.1 2310 6.2	0507 1.0 1121 6.7 1738 1.1 2341 6.8	0534 0.9 1141 6.7 1809 1.1
24 TU	0414 0.6 1024 4.1 1633 0.7 2244 4.2	0437 0.8 1047 4.5 1700 0.8 2306 4.6	0453 0.9 1101 5.0 1716 0.9 2320 5.2	0513 0.8 1115 5.5 1736 0.8 2333 5.7	0549 0.9 1148 6.3 1815 0.9	0620 1.0 1219 6.8 1849 1.0	0652 0.9 1239 6.8 1920 0.9
25 W ●	0508 0.7 1115 4.2 1731 0.6 2336 4.3	0530 0.8 1139 4.6 1756 0.7	0548 0.9 1152 5.1 1814 0.7	0610 0.8 1207 5.6 1836 0.7	0648 0.9 1240 6.3 1916 0.8	0638 7.0 0725 0.9 1311 6.9 1953 0.8	0659 6.9 0755 0.8 1332 6.9 2022 0.7
26 TH	0557 0.7 1204 4.2 1825 0.5	0620 0.8 1227 4.7 1850 0.6	0638 0.9 1241 5.2 1908 0.6	0701 0.8 1255 5.7 1931 0.5	0740 0.9 1329 6.4 2011 0.6	0818 0.9 1400 7.0 2048 0.6	0847 0.8 1420 7.0 2115 0.5
27 F	0642 0.8 1252 4.3 1916 0.4	0706 0.9 1313 4.7 1941 0.5	0724 0.9 1327 5.2 1958 0.5	0747 0.9 1342 5.7 2022 0.5	0826 0.9 1415 6.4 2100 0.5	0905 1.0 1447 7.0 2138 0.5	0933 0.8 1506 7.0 2204 0.4
28 SA	0115 4.3 0725 0.8 1337 4.2 2003 0.4	0149 4.7 0750 0.9 1412 5.2 2030 0.5	0157 5.3 0807 1.0 1428 5.7 2045 0.5	0209 5.9 1428 5.7 2107 0.5	0242 6.6 1501 6.4 2145 0.6	0312 7.2 0945 1.0 1532 7.0 2221 0.6	0332 7.1 1015 6.9 1550 6.9 2248 0.4
29 SU	0203 4.3 0804 0.9 1422 4.2 2048 0.4	0236 4.7 0831 1.0 1439 4.6 2115 0.6	0244 5.3 0846 1.1 1455 5.1 2128 0.6	0257 5.8 0905 1.1 1511 5.6 2148 0.6	0330 6.5 0943 1.1 1545 6.3 2224 0.6	0400 7.1 1019 1.1 1615 6.8 2257 0.6	0419 7.0 1050 1.0 1632 6.8 2325 0.5
30 M	0250 4.2 0842 1.0 1505 4.1 2129 0.5	0321 4.5 0910 1.1 1519 4.6 2158 0.7	0329 5.1 0924 1.2 1537 5.0 2208 0.7	0344 5.7 0937 1.2 1554 5.5 2223 0.7	0417 6.3 1013 1.2 1626 6.1 2256 0.8	0445 6.9 1049 1.2 1655 6.7 2327 0.8	0504 6.8 1121 1.1 1712 6.6 2357 0.7

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	WALTON-ON-THE-NAZE	MARGATE	SHIVERING SAND	SOUTHEND -ON-SEA	TILBURY	NORTH WOOLWICH (TOWER PIER)	LONDON BRIDGE
	Time m	Time m	Time m	Time m	Time m	Time m	Time m
1 TU	0336 4.0 0921 1.1 1548 4.0 2211 0.6	0403 4.4 0949 1.3 1600 4.5 2240 0.8	0413 4.9 1001 1.3 1618 4.9 2247 0.8	0428 5.4 1010 1.3 1635 5.3 2256 0.8	0501 6.1 1044 1.3 1707 5.9 2327 0.9	0529 6.7 1119 1.3 1734 6.5 2357 0.9	0547 6.6 1150 1.2 1751 6.4
2 W	0423 3.8 1003 1.2 1632 3.9 2256 0.7	0446 4.2 1030 1.4 1644 4.3 2325 0.9	0457 4.7 1040 1.5 1702 4.8 2330 1.0	0513 5.2 1047 1.4 1719 5.1 2335 1.0	0545 5.9 1120 1.4 1749 5.8	0612 6.4 1154 1.4 1815 6.2	0626 0.8 0631 6.3 1222 1.3 1833 6.2
3 TH	0511 3.7 1054 1.3 1721 3.7 2348 0.8	0534 4.0 1118 1.5 1736 4.2	0544 4.5 1126 1.6 1752 4.6	0559 5.0 1131 1.5 1808 5.0	0604 1.0 0630 5.7 1202 1.6 1838 5.6	0632 1.1 0657 6.2 1233 1.6 1904 6.0	0659 1.0 0716 6.1 1300 1.5 1923 6.0
4 F	0603 3.5 1157 1.4 1816 3.6	0630 3.9 1221 1.6 1839 4.0	0636 4.4 1222 1.7 1850 4.5	0650 4.8 1225 1.7 1906 4.8	0718 5.5 1253 1.7 1936 5.4	0746 6.0 1320 1.8 2003 5.9	0806 6.0 1345 1.7 2024 5.8
5 SA	0044 1.0 0700 3.5 1306 1.4 1917 3.5	0115 1.2 0730 3.9 1339 1.6 1945 4.0	0118 1.3 0735 4.3 1336 1.8 1956 4.4	0125 1.3 0746 4.7 1336 1.7 2011 4.7	0146 1.4 0812 5.4 1356 1.8 2039 5.4	0210 1.4 0839 5.9 1419 1.9 2107 5.8	0238 1.3 0900 5.9 1444 1.8 2128 5.8
6 SU	0143 1.0 0801 3.5 1411 1.3 2023 3.5	0214 1.3 0829 4.0 1445 1.5 2046 4.0	0220 1.4 0838 4.4 1450 1.7 2101 4.4	0228 1.4 0848 4.7 1453 1.6 2115 4.8	0250 1.4 0913 5.4 1512 1.8 2144 5.4	0317 1.5 0938 5.9 1538 1.9 2212 5.9	0345 1.4 0958 5.9 1610 1.8 2231 5.9
7 M	0242 1.0 0902 3.6 1511 1.2 2124 3.6	0310 1.3 0936 4.1 1543 1.4 2144 4.1	0319 1.4 0936 4.5 1552 1.5 2200 4.5	0329 1.3 0948 4.9 1559 1.5 2214 4.9	0354 1.4 1016 5.5 1623 1.6 2245 5.6	0423 1.5 1041 6.0 1653 1.6 2314 6.1	0448 1.4 1100 6.0 1720 1.5 2332 6.1

8	0337	1.0	0403	1.2	0414	1.3	0426	1.3	0454	1.4	0523	1.4	0548	1.3	8	TU	1159	6.2	1819	1.3
	0955	3.7	1014	4.2	1028	4.6	1042	5.0	1113	5.7	1140	6.2	1159	6.2						
	1607	1.0	1636	1.2	1646	1.3	1657	1.3	1724	1.4	1754	1.4	1819	1.3						
	2216	3.8	2237	4.2	2252	4.7	2306	5.1	2339	5.8										
9	0426	1.0	0452	1.2	0503	1.3	0518	1.2	0549	1.3	0608	6.3	0628	6.3	9	W	0644	1.2	1914	1.1
	1040	3.9	1058	4.3	1113	4.8	1128	5.2	1201	5.9	0618	1.3	0644	1.2						
	1655	0.9	1724	1.1	1734	1.1	1749	1.1	1819	1.2	1231	6.4	1251	6.4						
	2300	3.9	2324	4.3	2337	4.8	2352	5.3			1848	1.2	1914	1.1						
10	0509	1.0	0535	1.1	0547	1.2	0604	1.2	0625	5.9	0656	6.5	0716	6.5	10	TH	0736	1.1	2006	1.0
	1120	4.0	1137	4.4	1154	4.9	1210	5.3	0637	1.2	0707	1.3	0736	1.1						
	1738	0.8	1807	1.0	1818	1.0	1835	1.0	1244	6.0	1315	6.6	1335	6.5						
	2342	4.0							1908	1.1	1938	1.1	2006	1.0						
11	0546	0.9	0606	4.3	0619	4.9	0634	5.4	0718	6.0	0739	6.6	0759	6.5	11	F	0823	1.1	2054	0.9
	1159	4.0	0613	1.1	0626	1.2	0644	1.1	0718	1.2	0751	1.2	0823	1.1						
	1817	0.7	1214	4.5	1233	5.0	1250	5.5	1324	6.1	1356	6.7	1416	6.6						
			1846	0.8	1859	0.9	1918	0.9	1953	1.0	2024	1.0	2054	0.9						
12	0021	4.1	0046	4.4	0059	5.0	0115	5.5	0148	6.2	0219	6.7	0239	6.6	12	SA	0906	1.1	2140	0.8
	0621	0.9	0649	1.0	0703	1.1	0720	1.1	0755	1.1	0831	1.2	0906	1.1						
	1238	4.1	1251	4.6	1311	5.1	1329	5.5	1402	6.2	1434	6.7	1454	6.7						
	1857	0.6	1924	0.8	1938	0.8	1958	0.8	2034	0.9	2109	0.9	2140	0.8						
13	0101	4.1	0127	4.5	0139	5.1	0155	5.6	0228	6.3	0259	6.8	0319	6.7	13	SU	0947	1.0	2224	0.7
	0656	0.9	0725	1.0	0740	1.1	0756	1.0	0833	1.0	0910	1.1	0947	1.0						
	1317	4.2	1330	4.6	1349	5.1	1407	5.6	1440	6.3	1512	6.8	1531	6.7						
	1936	0.5	2003	0.7	2018	0.7	2037	0.7	2115	0.8	2151	0.8	2224	0.7						
14	0141	4.2	0210	4.6	0220	5.1	0235	5.7	0308	6.3	0338	6.9	0358	6.8	14	M	1027	0.9	2303	0.6
	0734	0.8	0804	0.9	0819	1.0	0835	0.9	0912	1.0	0950	1.0	1027	0.9						
	1356	4.2	1410	4.6	1427	5.1	1445	5.6	1517	6.3	1549	6.8	1608	6.8						
	2016	0.5	2043	0.6	2058	0.7	2117	0.7	2154	0.7	2230	0.8	2303	0.6						
15	0222	4.2	0253	4.5	0301	5.1	0316	5.6	0349	6.3	0418	6.9	0437	6.8	15	TU	1103	0.9	1644	6.8
	0813	0.8	0844	0.9	0859	1.0	0915	0.9	0953	1.0	1029	1.0	1103	0.9						
	1435	4.1	1449	4.6	1506	5.1	1523	5.5	1555	6.2	1626	6.8	1644	6.8						
	2056	0.5	2124	0.6	2138	0.7	2156	0.7	2233	0.7	2305	0.8	2338	0.7						

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	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 W	0304 4.1 0855 0.9 1516 4.1 2139 0.5	0335 4.5 0925 1.0 1529 4.6 2206 0.7	0343 5.0 0940 1.1 1546 5.1 2219 0.7	0358 5.6 0956 1.0 1602 5.5 2234 0.7	0431 6.3 1033 1.1 1634 6.2 2310 0.8	0500 6.8 1108 1.1 1704 6.7 2337 0.8	0518 6.8 1139 1.0 1723 6.7
17 TH	0350 4.0 0941 1.0 1601 4.0 2226 0.6	0417 4.4 1009 1.1 1613 4.5 2252 0.8	0428 5.0 1024 1.2 1631 5.0 2304 0.8	0443 5.4 1039 1.1 1646 5.4 2315 0.8	0515 6.1 1114 1.2 1717 6.1 2348 0.9	0544 6.7 1147 1.2 1746 6.6	0609 0.8 0602 6.6 1216 1.1 1805 6.6
18 F ☾	0442 3.9 1033 1.1 1654 4.0 2324 0.7	0504 4.3 1057 1.2 1705 4.5 2347 0.9	0518 4.8 1112 1.3 1724 4.9 2357 0.9	0533 5.3 1125 1.2 1738 5.3	0605 6.0 1158 1.3 1808 6.0	0614 0.9 0633 6.5 1230 1.3 1836 6.5	0644 0.8 0652 6.5 1259 1.2 1855 6.5
19 SA	0542 3.8 1137 1.1 1758 3.9	0601 4.2 1157 1.3 1809 4.4	0615 4.7 1211 1.4 1828 4.8	0631 5.2 1222 1.3 1843 5.2	0703 5.8 1254 1.4 1914 5.8	0731 6.4 1325 1.5 1939 6.4	0751 6.3 1353 1.4 1959 6.3
20 SU	0032 0.8 0649 3.7 1251 1.2 1911 3.8	0058 1.0 0711 4.2 1319 1.4 1927 4.3	0104 1.1 0722 4.6 1326 1.4 1943 4.7	0113 1.1 0737 5.1 1336 1.4 1959 5.1	0138 1.2 0809 5.7 1406 1.5 2030 5.8	0207 6.2 0838 6.3 1438 1.6 2059 6.3	0238 1.1 0859 6.2 1507 1.5 2122 6.2
21 M	0146 0.9 0801 3.7 1408 1.1 2028 3.8	0212 1.1 0825 4.2 1440 1.3 2045 4.3	0220 1.2 0836 4.6 1449 1.4 2101 4.7	0231 1.2 0850 5.0 1459 1.3 2116 5.1	0254 1.3 0920 5.7 1528 1.4 2147 5.8	0325 1.3 0949 6.2 1601 1.5 2217 6.3	0352 1.2 1010 6.2 1628 1.4 2238 6.3
22 TU	0259 0.9 0912 3.8 1524 0.9 2138 3.9	0322 1.1 0934 4.3 1552 1.1 2200 4.4	0335 1.2 0948 4.7 1605 1.2 2214 4.9	0349 1.2 1002 5.2 1619 1.1 2228 5.3	0416 1.3 1034 5.8 1653 1.2 2300 6.0	0443 1.4 1102 6.3 1721 1.3 2329 6.5	0509 1.2 1122 6.3 1751 1.2 2350 6.5

23 W	0404 0.9 1015 3.9 1633 0.8 2239 4.1	0427 1.1 1037 4.4 1659 0.9 2308 4.5	0442 1.1 1051 4.9 1713 0.9 2318 5.0	0500 1.1 1106 5.3 1732 0.9 2331 5.5	0536 1.2 1138 6.0 1809 1.0	0605 1.3 1208 6.6 1841 1.0	0635 1.1 1228 6.5 1911 0.9	23 W
24 TH ●	0459 0.9 1108 4.1 1731 0.6 2331 4.2	0523 1.0 1130 4.5 1756 0.7	0539 1.1 1145 5.0 1812 0.7	0559 1.0 1201 5.5 1833 0.7	0603 6.2 0637 1.1 1232 6.2 1910 0.7	0633 6.8 0712 1.1 1303 6.8 1946 0.7	0654 6.7 0740 1.0 1323 6.7 2013 0.6	24 TH ●
25 F	0546 0.8 1155 4.2 1821 0.4	0604 4.6 0610 1.0 1217 4.6 1845 0.5	0612 5.2 0628 1.0 1231 5.2 1903 0.5	0625 5.7 0650 1.0 1247 5.6 1926 0.5	0657 6.4 0728 1.0 1319 6.3 2004 0.5	0727 7.0 0806 1.0 1351 6.9 2041 0.5	0748 6.9 0833 0.9 1411 6.9 2106 0.4	25 F
26 SA	0018 4.3 0628 0.8 1239 4.3 1906 0.3	0653 4.7 0652 0.9 1258 4.7 1930 0.5	0711 1.0 1313 5.2 1948 0.5	0734 0.9 1330 5.7 2012 0.4	0813 0.9 1402 6.4 2050 0.5	0852 1.0 1434 7.0 2127 0.5	0919 0.8 1453 7.0 2153 0.3	26 SA
27 SU	0102 4.3 0707 0.8 1320 4.3 1947 0.3	0731 0.9 1336 4.8 2011 0.5	0750 1.0 1353 5.3 2029 0.5	0813 0.9 1410 5.8 2052 0.4	0853 0.9 1443 6.5 2130 0.5	0931 1.0 1514 7.1 2207 0.5	1000 0.8 1533 7.0 2233 0.3	27 SU
28 M	0144 4.3 0742 0.9 1359 4.3 2024 0.4	0808 1.0 1413 4.8 2049 0.5	0825 1.0 1431 5.3 2104 0.6	0845 1.0 1448 5.8 2126 0.5	0925 1.0 1521 6.4 2203 0.5	1003 1.0 1551 7.0 2238 0.6	1034 0.9 1610 7.0 2307 0.4	28 M
29 TU	0224 4.2 0815 0.9 1435 4.2 2056 0.5	0252 4.6 0842 1.0 1448 4.7 2123 0.6	0302 5.2 0858 1.1 1507 5.2 2135 0.7	0317 5.7 0913 1.0 1524 5.7 2152 0.6	0351 6.4 0951 1.1 1557 6.3 2228 0.7	0420 7.0 1027 1.1 1626 6.9 2301 0.7	0439 6.9 1100 1.0 1644 6.8 2332 0.6	29 TU
30 W	0303 4.0 0845 1.0 1510 4.1 2127 0.6	0324 4.4 0914 1.1 1523 4.6 2154 0.8	0338 5.0 0928 1.2 1542 5.1 2204 0.8	0354 5.5 0939 1.1 1558 5.5 2215 0.8	0428 6.2 1015 1.1 1630 6.1 2250 0.8	0456 6.8 1051 1.1 1659 6.7 2322 0.8	0515 6.7 1122 1.1 1717 6.6 2351 0.7	30 W
31 TH	0339 3.9 0918 1.1 1546 4.0 2201 0.8	0357 4.3 0946 1.2 1557 4.5 2226 0.9	0413 4.8 0959 1.3 1617 4.9 2235 1.0	0429 5.3 1008 1.2 1633 5.3 2243 0.9	0502 6.0 1043 1.3 1703 5.9 2316 1.0	0529 6.5 1118 1.3 1731 6.5 2347 1.0	0548 6.5 1147 1.2 1750 6.4	31 TH

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	WALTON-ON-THE-NAZE	MARGATE	SHIVERING SAND	SOUTHEND -ON-SEA	TILBURY	NORTH WOOLWICH (TOWER PIER)	LONDON BRIDGE
	Time m	Time m	Time m	Time m	Time m	Time m	Time m
1	0417 3.7	0431 4.2	0448 4.6	0504 5.1	0536 5.7	0602 6.3	0014 0.9
F	0955 1.2	1022 1.4	1034 1.5	1042 1.4	1114 1.4	1148 1.4	0622 6.2
☾	1627 3.8	1636 4.3	1656 4.7	1711 5.1	1739 5.7	1806 6.2	1216 1.3
	2243 0.9	2305 1.2	2313 1.2	2319 1.2	2347 1.2		1825 6.1
2	0500 3.6	0511 4.0	0528 4.4	0544 4.8	0614 5.5	0016 1.3	0042 1.2
SA	1043 1.3	1107 1.6	1117 1.6	1123 1.6	1152 1.6	0640 6.0	0701 6.0
	1718 3.6	1724 4.0	1744 4.5	1759 4.8	1828 5.4	1223 1.7	1250 1.6
	2338 1.1	2358 1.4				1852 5.9	1910 5.8
3	0555 3.4	0605 3.8	0004 1.5	0006 1.4	0030 1.5	0054 1.6	0119 1.4
SU	1153 1.4	1209 1.7	0620 4.3	0634 4.6	0704 5.3	0729 5.8	0750 5.7
	1824 3.4	1832 3.8	1217 1.8	1218 1.8	1244 1.8	1310 1.9	1333 1.8
			1850 4.2	1906 4.6	1936 5.2	2001 5.6	2022 5.6
4	0050 1.3	0111 1.5	0116 1.6	0120 1.6	0135 1.7	0153 1.7	0216 1.7
M	0701 3.4	0727 3.8	0730 4.2	0741 4.5	0807 5.2	0834 5.7	0857 5.6
	1322 1.4	1351 1.7	1349 1.8	1347 1.8	1400 1.9	1420 2.0	1439 2.0
	1938 3.4	1959 3.8	2012 4.2	2027 4.5	2053 5.1	2122 5.6	2144 5.6
5	0202 1.3	0229 1.5	0237 1.7	0248 1.7	0305 1.8	0330 1.8	0400 1.8
TU	0813 3.4	0843 3.9	0851 4.2	0900 4.6	0923 5.2	0949 5.7	1011 5.7
	1437 1.3	1511 1.5	1517 1.6	1524 1.7	1543 1.8	1611 1.9	1640 1.8
	2052 3.5	2115 3.9	2128 4.3	2140 4.7	2208 5.3	2236 5.8	2256 5.8
6	0309 1.2	0335 1.4	0346 1.6	0359 1.6	0423 1.6	0450 1.8	0514 1.6
W	0922 3.6	0945 4.0	0957 4.5	1010 4.8	1038 5.5	1105 6.0	1124 5.9
	1544 1.1	1614 1.3	1622 1.4	1633 1.4	1659 1.5	1726 1.5	1750 1.4
	2152 3.7	2218 4.1	2229 4.5	2242 5.0	2312 5.6	2341 6.2	
7	0406 1.1	0432 1.3	0443 1.4	0458 1.4	0527 1.4	0554 1.5	0000 6.1
TH	1015 3.8	1036 4.2	1050 4.7	1105 5.1	1137 5.8	1206 6.3	0618 1.4
	1638 0.9	1706 1.1	1715 1.1	1731 1.1	1801 1.2	1827 1.2	1225 6.3
	2241 3.9	2309 4.3	2318 4.8	2333 5.2			1851 1.1

8	0451	1.0	0518	1.2	0530	1.3	0547	1.2	0005	5.9	0035	6.5	0054	6.4
F	1059	3.9	1119	4.4	1134	4.9	1150	5.3	0620	1.3	0649	1.3	0716	1.2
	1722	0.7	1750	0.9	1802	0.9	1821	0.9	1224	6.0	1255	6.6	1314	6.5
	2323	4.0	2352	4.4					1855	1.0	1924	1.0	1950	0.9
9	0529	0.9	0557	1.1	0001	5.0	0016	5.5	0049	6.1	0121	6.7	0140	6.7
SA	1139	4.1	1156	4.5	0610	1.2	0630	1.1	0706	1.2	0738	1.2	0808	1.1
O	1801	0.6	1829	0.7	1213	5.1	1231	5.5	1305	6.2	1337	6.8	1357	6.7
					1843	0.8	1906	0.8	1943	0.8	2015	0.9	2043	0.7
10	0003	4.2	0031	4.6	0041	5.1	0057	5.7	0130	6.3	0202	6.9	0222	6.9
SU	0804	0.9	0833	1.0	0648	1.1	0709	1.0	0747	1.1	0823	1.1	0855	0.9
	1219	4.2	1231	4.7	1251	5.2	1310	5.7	1343	6.4	1417	6.9	1436	6.9
	1840	0.5	1907	0.6	1924	0.6	1947	0.6	2026	0.7	2102	0.7	2131	0.6
11	0043	4.3	0111	4.7	0121	5.3	0137	5.8	0210	6.5	0242	7.1	0302	7.0
M	0640	0.8	0709	0.9	0725	0.9	0746	0.9	0826	0.9	0905	1.0	0939	0.8
	1258	4.3	1309	4.8	1329	5.3	1348	5.8	1421	6.5	1454	7.1	1514	7.0
	1919	0.4	1945	0.5	2003	0.5	2027	0.5	2107	0.6	2145	0.6	2215	0.4
12	0123	4.4	0152	4.7	0201	5.4	0217	5.9	0250	6.6	0321	7.2	0341	7.1
TU	0717	0.7	0746	0.8	0803	0.9	0824	0.8	0905	0.8	0944	0.8	1019	0.7
	1337	4.4	1347	4.8	1407	5.4	1425	5.8	1458	6.5	1531	7.1	1550	7.1
	1958	0.3	2023	0.4	2041	0.5	2105	0.4	2145	0.5	2223	0.5	2254	0.4
13	0204	4.4	0233	4.7	0241	5.3	0257	5.9	0330	6.6	0400	7.2	0420	7.1
W	0755	0.7	0824	0.8	0842	0.9	0902	0.8	0942	0.8	1021	0.8	1056	0.7
	1416	4.3	1426	4.8	1445	5.4	1503	5.8	1536	6.5	1607	7.1	1626	7.1
	2036	0.4	2101	0.5	2118	0.5	2140	0.5	2220	0.5	2257	0.6	2329	0.5
14	0245	4.3	0312	4.6	0322	5.2	0337	5.8	0410	6.5	0440	7.1	0459	7.0
TH	0834	0.8	0903	0.9	0920	0.9	0939	0.9	1018	0.9	1055	0.9	1128	0.8
	1456	4.3	1506	4.8	1524	5.3	1541	5.8	1614	6.4	1644	7.0	1703	7.0
	2114	0.5	2140	0.6	2155	0.7	2214	0.6	2252	0.7	2324	0.7	2357	0.6
15	0328	4.1	0351	4.5	0403	5.1	0419	5.6	0452	6.3	0521	6.9	0540	6.8
F	0917	0.9	0944	1.0	1001	1.1	1017	1.0	1054	1.1	1129	1.1	1200	1.0
	1539	4.2	1549	4.7	1607	5.2	1623	5.6	1654	6.3	1724	6.9	1744	6.8
	2158	0.6	2221	0.8	2235	0.8	2249	0.8	2324	0.9	2353	0.9		

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	WALTON-ON-THE-NAZE	MARGATE	SHIVERING SAND	SOUTHEND -ON-SEA	TILBURY	NORTH WOOLWICH (TOWER PIER)	LONDON BRIDGE
	Time m	Time m	Time m	Time m	Time m	Time m	Time m
16 SA ☾	0416 4.0 1007 1.0 1629 4.1 2252 0.8	0433 4.4 1030 1.1 1641 4.5 2313 1.0	0450 4.9 1047 1.2 1659 5.0 2325 1.1	0505 5.3 1100 1.1 1713 5.4 2335 1.0	0537 6.0 1132 1.2 1743 6.1	0605 6.6 1206 1.3 1812 6.6	0025 0.8 0625 6.5 1237 1.2 1832 6.6
17 SU	0512 3.8 1110 1.1 1733 3.9	0528 4.2 1129 1.3 1748 4.3	0545 4.7 1145 1.4 1805 4.8	0600 5.1 1155 1.3 1819 5.1	0004 1.1 0630 5.7 1225 1.4 1848 5.8	0033 1.2 0658 6.3 1255 1.5 1914 6.3	0105 1.1 0718 6.2 1326 1.4 1935 6.3
18 M	0004 1.0 0622 3.6 1230 1.2 1855 3.7	0027 1.2 0644 4.0 1301 1.4 1915 4.2	0034 1.3 0655 4.5 1306 1.5 1928 4.6	0042 1.3 0710 4.9 1315 1.5 1943 5.0	0108 1.4 0738 5.5 1342 1.6 2012 5.6	0135 1.5 0805 6.0 1411 1.7 2038 6.1	0206 1.4 0827 6.0 1440 1.6 2101 6.0
19 TU	0129 1.2 0745 3.6 1402 1.1 2024 3.7	0155 1.4 0808 4.0 1433 1.3 2045 4.2	0202 1.5 0820 4.4 1441 1.4 2058 4.6	0210 1.5 0833 4.8 1450 1.4 2110 5.0	0232 1.6 0901 5.4 1514 1.5 2139 5.6	0302 1.7 0927 5.9 1544 1.6 2206 6.1	0326 1.6 0948 5.9 1610 1.5 2227 6.1
20 W	0251 1.2 0905 3.7 1529 0.9 2139 3.9	0317 1.4 0926 4.2 1556 1.1 2209 4.3	0328 1.5 0940 4.6 1606 1.1 2217 4.8	0341 1.5 0956 5.0 1621 1.1 2230 5.2	0409 1.6 1026 5.6 1654 1.2 2300 5.9	0429 1.7 1054 6.1 1717 1.3 2328 6.4	0453 1.6 1113 6.1 1746 1.2 2347 6.4
21 TH	0358 1.1 1009 3.9 1634 0.7 2238 4.1	0426 1.2 1032 4.4 1701 0.8 2311 4.5	0437 1.3 1045 4.8 1714 0.8 2317 5.0	0454 1.3 1102 5.3 1732 0.8 2331 5.5	0529 1.4 1132 5.9 1807 0.8	0558 1.4 1202 6.5 1839 0.9	0626 1.3 1221 6.4 1905 0.7
22 F	0449 1.0 1059 4.1 1724 0.5 2324 4.2	0516 1.1 1123 4.6 1751 0.6	0530 1.2 1136 5.1 1806 0.6	0549 1.1 1153 5.5 1826 0.6	0002 6.2 0626 1.1 1224 6.2 1902 0.6	0030 6.8 0700 1.2 1254 6.8 1937 0.6	0050 6.7 0726 1.0 1313 6.7 2002 0.4

23 SA ●	0530 1142 1807	0.9 4.2 0.4	0000 0556 1204 1832	4.6 1.0 4.7 0.5	0005 0613 1217 1849	5.2 1.1 5.2 0.5	0019 0634 1235 1911	5.7 1.0 5.7 0.4	0050 0713 1306 1949	6.4 1.0 6.3 0.5	0120 0749 1337 2025	7.0 1.0 7.0 0.5	0139 0815 1357 2050	7.0 0.8 6.9 0.3	23 SA ●
24 SU	0005 0607 1221 1845	4.3 0.8 4.3 0.3	0040 0631 1238 1909	4.7 0.9 4.8 0.5	0046 0651 1253 1927	5.3 1.0 5.3 0.5	0100 0713 1311 1951	5.8 0.9 5.8 0.4	0132 0753 1343 2029	6.5 0.9 6.4 0.4	0202 0831 1415 2106	7.2 1.0 7.1 0.5	0222 0858 1435 2131	7.1 0.8 7.0 0.3	24 SU
25 M	0043 0641 1256 1919	4.3 0.8 4.4 0.4	0115 0706 1309 1943	4.7 0.9 4.8 0.5	0122 0725 1327 2000	5.3 1.0 5.4 0.5	0136 0748 1345 2024	5.8 0.9 5.8 0.5	0209 0829 1418 2103	6.5 0.9 7.1 0.5	0240 0907 1449 2139	7.2 0.9 7.1 0.5	0300 0936 1509 2207	7.1 0.8 7.1 0.4	25 M
26 TU	0119 0714 1330 1949	4.3 0.8 4.3 0.4	0145 0739 1342 2014	4.7 0.9 4.8 0.6	0156 0751 1401 2030	5.3 1.0 5.4 0.6	0211 0817 1418 2051	5.8 0.9 5.8 0.6	0245 0858 1451 2130	6.5 0.9 6.5 0.6	0315 0935 1522 2204	7.2 1.0 7.1 0.6	0336 1008 1541 2236	7.1 0.8 7.1 0.5	26 TU
27 W	0153 0743 1401 2017	4.2 0.9 4.3 0.6	0214 0811 1415 2042	4.6 1.0 4.8 0.7	0228 0827 1433 2056	5.2 1.0 5.3 0.8	0245 0842 1450 2112	5.8 1.0 5.8 0.7	0318 0922 1523 2150	6.5 1.0 6.4 0.7	0348 0958 1553 2224	7.1 1.0 7.0 0.7	0408 1031 1612 2255	7.0 0.9 7.0 0.6	27 W
28 TH	0225 0811 1432 2042	4.1 0.9 4.2 0.7	0243 0839 1447 2108	4.5 1.1 4.7 0.8	0259 0854 1505 2121	5.1 1.1 5.2 0.9	0316 0907 1521 2134	5.6 1.0 5.6 0.8	0349 0944 1553 2211	6.3 1.1 6.2 0.8	0418 1020 1624 2244	6.9 1.1 6.8 0.9	0437 1051 1642 2312	6.8 1.0 6.8 0.8	28 TH
29 F	0255 0838 1504 2109	4.0 1.0 4.0 0.8	0312 0907 1518 2135	4.4 1.2 4.5 1.0	0329 0921 1536 2147	4.9 1.2 5.0 1.1	0345 0932 1551 2158	5.4 1.1 5.4 1.0	0417 1008 1622 2231	6.1 1.2 6.0 1.1	0446 1044 1653 2304	6.7 1.2 6.6 1.1	0505 1114 1712 2333	6.6 1.1 6.5 1.0	29 F
30 SA	0325 0911 1538 2142	3.8 1.1 3.9 1.0	0341 0938 1552 2209	4.3 1.3 4.3 1.2	0358 0951 1610 2218	4.7 1.4 4.8 1.3	0414 0959 1624 2225	5.2 1.3 5.1 1.3	0445 1030 1653 2252	5.8 1.3 5.7 1.3	0514 1107 1722 2324	6.4 1.4 6.3 1.4	0533 1138 1742 2355	6.3 1.3 6.2 1.2	30 SA
31 SU ●	0358 0951 1619 2226	3.6 1.2 3.6 1.2	0416 1017 1635 2255	4.1 1.5 4.1 1.5	0432 1028 1652 2259	4.5 1.5 4.5 1.6	0446 1032 1704 2301	4.9 1.5 4.8 1.5	0516 1057 1731 2322	5.6 1.5 5.4 1.6	0544 1132 1759 2352	6.1 1.6 6.0 1.6	0604 1203 1819 2352	6.1 1.4 5.9 1.6	31 SU ●

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	WALTON-ON-THE-NAZE	MARGATE	SHIVERING SAND	SOUTHEND -ON-SEA	TILBURY	NORTH WOOLWICH (TOWER PIER)	LONDON BRIDGE
	Time m	Time m	Time m	Time m	Time m	Time m	Time m
1 M	0444 3.4 1048 1.4 1721 3.4 2342 1.4	0502 3.9 1112 1.6 1735 3.8	0517 4.3 1119 1.7 1751 4.2	0530 4.7 1120 1.7 1803 4.5	0558 5.3 1141 1.7 1830 5.1	0624 5.8 1209 1.8 1853 5.6	0020 1.5 0644 5.8 1236 1.6 1910 5.6
2 TU	0559 3.3 1226 1.5 1855 3.2	0001 1.7 0609 3.7 1242 1.8 1905 3.7	0004 1.8 0623 4.1 1244 1.9 1919 4.0	0001 1.8 0635 4.4 1238 1.9 1933 4.3	0016 1.9 0703 5.0 1252 2.0 2000 4.9	0039 2.0 0724 5.5 1311 2.1 2023 5.4	0102 1.8 0741 5.5 1330 1.9 2043 5.3
3 W	0124 1.5 0729 3.3 1402 1.3 2021 3.4	0141 1.8 0758 3.7 1434 1.6 2046 3.8	0147 1.9 0801 4.1 1440 1.7 2055 4.2	0155 2.0 0809 4.4 1448 1.8 2105 4.5	0159 2.1 0831 5.0 1500 1.9 2129 5.1	0205 2.3 0856 5.5 1521 2.1 2158 5.6	0216 2.1 0918 5.4 1555 2.0 2218 5.5
4 TH	0240 1.4 0847 3.5 1514 1.1 2127 3.6	0307 1.6 0915 4.0 1546 1.3 2155 4.1	0317 1.8 0924 4.3 1554 1.4 2203 4.5	0329 1.8 0936 4.7 1606 1.4 2215 4.9	0350 1.9 1001 5.3 1632 1.5 2243 5.5	0416 2.0 1027 5.8 1657 1.6 2311 6.1	0440 1.9 1047 5.7 1720 1.5 2328 6.0
5 F	0339 1.2 0945 3.7 1611 0.8 2217 3.9	0408 1.4 1010 4.2 1640 1.0 2247 4.4	0417 1.5 1021 4.7 1649 1.1 2254 4.9	0432 1.5 1036 5.1 1706 1.1 2308 5.3	0502 1.5 1107 5.7 1737 1.1 2339 6.0	0526 1.6 1136 6.2 1801 1.2	0550 1.5 1154 6.2 1825 1.1
6 SA	0424 1.0 1031 4.0 1655 0.6 2259 4.2	0454 1.2 1053 4.5 1724 0.8 2330 4.6	0505 1.3 1107 5.0 1736 0.8 2337 5.1	0523 1.2 1123 5.4 1757 0.8 2352 5.6	0556 1.3 1156 6.0 1832 0.8	0608 6.6 0624 1.3 1227 6.6 1901 0.9	0025 6.5 0651 1.2 1246 6.6 1927 0.8
7 SU	0502 0.9 1113 4.2 1736 0.5 2339 4.3	0533 1.0 1130 4.6 1804 0.6	0546 1.1 1146 5.2 1819 0.7	0606 1.0 1204 5.6 1843 0.6	0624 6.3 0644 1.1 1238 6.3 1921 0.7	0655 6.9 0716 1.1 1310 6.9 1955 0.7	0113 6.9 0745 1.0 1390 6.9 2023 0.6

8	M	0539	0.8	0009	4.7	0017	5.3	0032	5.9	0106	6.6	0137	7.2	0157	7.1	0835	0.8
		1153	4.3	0609	0.9	0624	1.0	0647	0.9	0727	0.9	0803	1.0	0835	1.0	1410	7.1
		1815	0.3	1205	4.8	1224	5.3	1243	6.5	1317	6.5	1350	7.1	1410	7.1	2111	0.4
				1842	0.5	1859	0.5	1925	0.5	2005	0.5	2043	0.6	2111	0.4		
9	TU	0019	4.5	0047	4.8	0056	5.5	0112	6.0	0146	6.8	0218	7.4	0238	7.3	0920	0.8
		0816	0.7	0646	0.8	0703	0.8	0727	0.8	0809	0.8	0848	0.9	0920	0.8	1449	7.3
		1233	4.5	1241	4.9	1302	5.5	1321	6.0	1355	6.7	1429	7.3	1449	7.3	2155	0.3
		1854	0.3	1920	0.4	1938	0.4	2005	0.4	2046	0.4	2126	0.5	2155	0.3		
10	W	0059	4.5	0126	4.9	0136	5.5	0152	6.1	0226	6.8	0258	7.5	0318	7.4	1002	0.7
		0854	0.6	0724	0.7	0742	0.8	0806	0.7	0848	0.8	0928	0.8	1002	0.7	1527	7.3
		1313	4.5	1321	5.0	1341	5.5	1400	6.1	1434	6.8	1507	7.4	1527	7.3	2234	0.3
		1932	0.3	1957	0.4	2016	0.4	2042	0.4	2124	0.4	2203	0.4	2234	0.3		
11	TH	0141	4.5	0206	4.8	0216	5.5	0232	6.1	0306	6.8	0337	7.4	0357	7.3	1039	0.7
		0733	0.7	0803	0.7	0821	0.8	0843	0.7	0925	0.8	1005	0.8	1039	0.7	1605	7.3
		1353	4.5	1402	5.0	1421	5.5	1439	6.0	1513	6.8	1545	7.4	1605	7.3	2307	0.4
		2009	0.4	2035	0.5	2052	0.5	2117	0.5	2157	0.5	2235	0.5	2307	0.4		
12	F	0222	4.3	0245	4.7	0256	5.3	0313	5.9	0346	6.6	0416	7.2	0436	7.1	1111	0.8
		0813	0.7	0842	0.8	0900	0.9	0920	0.8	1000	0.8	1038	0.9	1111	0.8	1643	7.2
		1435	4.4	1444	4.9	1502	5.4	1519	5.9	1552	6.6	1623	7.2	1643	7.2	2335	0.7
		2047	0.5	2113	0.7	2128	0.7	2149	0.7	2227	0.7	2301	0.8	2335	0.7		
13	SA	0305	4.2	0323	4.6	0337	5.1	0354	5.6	0426	6.3	0456	6.9	0516	6.8	1726	6.9
		0856	0.8	0923	0.9	0940	1.0	0957	0.9	1034	1.0	1110	1.0	1142	0.9		
		1519	4.3	1531	4.7	1548	5.2	1603	5.7	1635	6.4	1705	7.0	1726	6.9		
		2130	0.8	2154	0.9	2208	1.0	2224	0.9	2258	1.0	2329	1.1				
14	SU	0351	3.9	0406	4.4	0423	4.9	0439	5.3	0509	6.0	0539	6.5	0602	1.0	1218	1.1
		0947	0.9	1011	1.1	1027	1.2	1040	1.1	1113	1.2	1146	1.2	1146	1.2	1816	6.5
		1611	4.0	1628	4.5	1643	5.0	1656	5.4	1725	6.0	1755	6.6	1816	6.5		
		2226	1.0	2247	1.2	2259	1.3	2310	1.3	2340	1.4						
15	M	0448	3.7	0503	4.1	0519	4.6	0534	5.0	0602	5.6	0609	1.4	0641	1.3	1306	1.4
		1053	1.1	1117	1.3	1129	1.4	1139	1.4	1208	1.4	1236	1.5	1306	1.4	1921	6.2
		1719	3.8	1742	4.2	1754	4.7	1807	5.0	1835	5.7	1900	6.2				
		2343	1.3														

SEPTEMBER 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
16 TU	0603 3.5 1222 1.1 1851 3.6	0008 1.5 0626 4.0 1256 1.4 1914 4.1	0013 1.6 0636 4.4 1300 1.5 1924 4.5	0021 1.6 0650 4.7 1306 1.5 1937 4.9	0048 1.7 0716 5.3 1331 1.6 2003 5.5	0113 1.8 0739 5.8 1356 1.7 2028 6.0	0142 1.7 0801 5.8 1422 1.6 2050 5.9
17 W	0118 1.4 0733 3.5 1402 1.0 2022 3.7	0147 1.6 0756 4.0 1433 1.3 2051 4.2	0151 1.8 0808 4.4 1440 1.3 2057 4.6	0157 1.8 0823 4.7 1449 1.4 2108 5.0	0217 1.9 0848 5.3 1511 1.5 2135 5.6	0245 2.0 0913 5.8 1535 1.6 2200 6.1	0306 1.9 0933 5.7 1556 1.5 2218 6.1
18 TH	0242 1.3 0854 3.7 1526 0.8 2134 4.0	0313 1.5 0916 4.2 1553 1.0 2206 4.4	0320 1.6 0928 4.6 1602 1.0 2211 4.9	0333 1.6 0945 5.0 1618 1.0 2224 5.3	0401 1.7 1015 5.6 1651 1.1 2253 6.0	0419 1.8 1042 6.1 1714 1.2 2319 6.5	0442 1.7 1059 6.0 1741 1.1 2337 6.5
19 F	0344 1.1 0954 3.9 1622 0.5 2226 4.1	0415 1.3 1019 4.4 1650 0.7 2301 4.6	0424 1.4 1029 4.9 1702 0.8 2305 5.1	0439 1.4 1047 5.3 1720 0.7 2319 5.6	0514 1.4 1118 6.0 1754 0.7 2349 6.3	0541 1.4 1147 6.6 1825 0.8	0608 1.3 1204 6.5 1850 0.6
20 SA	0429 1.0 1041 4.1 1706 0.4 2307 4.2	0459 1.1 1106 4.6 1733 0.6 2343 4.7	0511 1.2 1117 5.1 1747 0.6 2347 5.2	0529 1.1 1134 5.6 1807 0.6	0605 1.1 1206 6.2 1843 0.5	0017 6.9 0637 1.1 1235 6.8 1916 0.5	0035 6.8 0703 1.0 1254 6.8 1941 0.4
21 SU	0506 0.9 1121 4.2 1742 0.4 2343 4.3	0534 1.0 1142 4.7 1808 0.6	0549 1.1 1155 5.2 1824 0.6	0002 5.8 0609 1.0 1212 5.7 1846 0.5	0033 6.5 0648 1.0 1245 6.3 1923 0.5	0102 7.1 0722 1.0 1315 7.0 1958 0.5	0121 7.0 0750 0.8 1334 7.0 2024 0.4
22 M	0539 0.8 1156 4.3 1814 0.4	0017 4.7 0605 0.9 1211 4.8 1839 0.6	0023 5.3 0623 1.0 1227 5.3 1856 0.6	0038 5.8 0644 0.9 1245 5.8 1919 0.5	0110 6.5 0725 0.9 1318 6.4 1957 0.6	0140 7.2 0801 1.0 1349 7.0 2033 0.6	0200 7.1 0830 0.8 1409 7.0 2101 0.5

23 TU	0017 4.3 0611 0.8 1228 4.3 1844 0.5	0044 4.7 0638 0.9 1239 4.8 1908 0.6	0053 5.3 0656 1.0 1257 5.4 1924 0.6	0109 5.8 0716 0.9 1315 5.8 1947 0.6	0142 6.5 0757 0.9 1348 6.5 2025 0.6	0213 7.2 0834 1.0 1419 7.1 2101 0.7	0234 7.1 0905 0.8 1440 7.1 2132 0.6
24 W	0049 4.3 0643 0.8 1258 4.3 1911 0.5	0108 4.7 0710 0.9 1310 4.8 1936 0.7	0123 5.3 0727 0.9 1329 5.4 1951 0.7	0139 5.8 0745 0.9 1346 5.9 2010 0.7	0213 6.5 0826 0.9 1419 6.5 2049 0.7	0243 7.2 0901 1.0 1450 7.2 2123 0.7	0305 7.1 0934 0.9 1510 7.1 2156 0.7
25 TH	0119 4.3 0713 0.8 1328 4.3 1937 0.7	0135 4.7 0740 0.9 1344 4.8 2002 0.8	0152 5.3 0756 1.0 1401 5.3 2016 0.8	0209 5.8 0811 1.0 1417 5.8 2033 0.8	0242 6.5 0850 1.0 1450 6.5 2111 0.8	0312 7.1 0925 1.0 1521 7.1 2144 0.8	0333 7.0 0957 0.9 1540 7.0 2215 0.8
26 F	0147 4.2 0739 0.9 1359 4.2 2000 0.8	0204 4.6 0808 1.0 1415 4.6 2028 0.9	0221 5.1 0823 1.1 1432 5.2 2041 1.0	0238 5.7 0836 1.1 1448 5.6 2056 1.0	0311 6.3 0914 1.1 1521 6.3 2133 1.0	0341 7.0 0950 1.1 1552 6.9 2206 1.0	0400 6.9 1020 1.0 1610 6.8 2235 0.9
27 SA	0215 4.0 0806 0.9 1430 4.0 2025 0.9	0233 4.5 0835 1.1 1445 4.5 2055 1.1	0248 5.0 0849 1.2 1502 5.0 2106 1.2	0305 5.5 0900 1.1 1517 5.4 2118 1.1	0338 6.1 0935 1.2 1550 6.0 2151 1.2	0408 6.7 1013 1.2 1621 6.6 2226 1.2	0427 6.7 1043 1.1 1640 6.6 2256 1.1
28 SU	0243 3.9 0836 1.0 1502 3.9 2055 1.1	0259 4.3 0904 1.2 1516 4.3 2127 1.3	0316 4.8 0917 1.3 1534 4.8 2135 1.4	0331 5.3 0923 1.3 1548 5.2 2141 1.4	0404 5.9 0953 1.3 1619 5.8 2208 1.4	0434 6.5 1032 1.3 1650 6.3 2244 1.4	0454 6.4 1105 1.2 1710 6.3 2317 1.3
29 M	0315 3.7 0914 1.1 1540 3.6 2136 1.3	0331 4.2 0942 1.4 1559 4.1 2210 1.5	0348 4.6 0950 1.4 1614 4.5 2213 1.6	0402 5.0 0952 1.4 1627 4.9 2215 1.6	0433 5.7 1016 1.4 1655 5.5 2236 1.6	0503 6.2 1054 1.4 1727 6.0 2312 1.6	0524 6.2 1127 1.3 1747 6.0 2342 1.5
30 TU	0356 3.5 1005 1.3 1632 3.4 2238 1.5	0416 4.0 1035 1.6 1659 3.8 2314 1.8	0430 4.4 1038 1.6 1709 4.2 2312 1.9	0443 4.8 1038 1.6 1720 4.6 2312 1.9	0512 5.4 1057 1.6 1747 5.2 2326 1.9	0541 5.9 1130 1.6 1816 5.7 2356 1.9	0603 5.9 1159 1.5 1836 5.7

OCTOBER 2025

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE	MARGATE	SHIVERING SAND	SOUTHEND -ON-SEA	TILBURY	NORTH WOOLWICH (TOWER PIER)	LONDON BRIDGE
	Time m	Time m	Time m	Time m	Time m	Time m	Time m
1 W	0458 3.3 1132 1.4 1758 3.2	0521 3.8 1157 1.7 1821 3.7	0533 4.1 1157 1.8 1831 4.1	0544 4.5 1152 1.8 1843 4.4	0611 5.1 1202 1.9 1910 5.0	0636 5.6 1226 1.9 1930 5.5	0022 1.8 0656 5.6 1249 1.7 1946 5.4
2 TH	0034 1.6 0641 3.2 1322 1.3 1945 3.4	0046 1.9 0657 3.7 1350 1.6 2007 3.8	0049 2.0 0706 4.1 1356 1.7 2012 4.2	0052 2.1 0716 4.4 1402 1.8 2022 4.5	0057 2.2 0740 5.0 1409 1.9 2046 5.1	0108 2.3 0800 5.4 1400 2.1 2112 5.6	0125 2.1 0814 5.4 1409 2.0 2132 5.5
3 F	0202 1.5 0806 3.4 1436 1.0 2053 3.7	0227 1.7 0833 3.9 1507 1.3 2121 4.2	0234 1.9 0841 4.3 1516 1.4 2127 4.6	0246 1.9 0852 4.6 1529 1.4 2138 5.0	0303 2.0 0916 5.2 1554 1.5 2204 5.6	0328 2.2 0942 5.7 1620 1.6 2231 6.1	0352 2.1 1003 5.6 1642 1.6 2248 6.1
4 SA	0301 1.2 0907 3.7 1533 0.8 2144 4.0	0332 1.4 0932 4.2 1604 0.9 2214 4.5	0341 1.5 0943 4.7 1614 1.0 2221 5.0	0354 1.5 0958 5.1 1630 1.0 2234 5.4	0423 1.6 1028 5.7 1702 1.1 2304 6.1	0447 1.7 1056 6.2 1726 1.1 2332 6.7	0510 1.6 1114 6.2 1749 1.1 2349 6.6
5 SU	0348 1.0 0957 4.0 1621 0.6 2228 4.3	0421 1.2 1018 4.5 1651 0.7 2258 4.7	0430 1.3 1031 5.0 1703 0.8 2305 5.2	0447 1.2 1048 5.4 1724 0.7 2320 5.8	0520 1.2 1120 6.1 1759 0.8 2353 6.5	0547 1.3 1151 6.7 1827 0.8	0614 1.2 1209 6.6 1855 0.7
6 M	0429 0.9 1041 4.2 1704 0.4 2310 4.4	0502 1.0 1057 4.7 1738 0.5 2338 4.8	0514 1.1 1113 5.2 1747 0.6 2347 5.4	0534 1.0 1131 5.7 1812 0.6	0611 1.0 1205 6.4 1850 0.6	0022 7.1 0642 1.0 1237 7.0 1924 0.6	0041 7.0 0713 1.0 1257 7.0 1954 0.5
7 TU O	0509 0.7 1123 4.4 1746 0.3 2351 4.5	0541 0.8 1134 4.9 1812 0.4	0556 0.9 1153 5.4 1830 0.5	0002 6.0 0618 0.9 1212 6.0 1856 0.5	0036 6.7 0659 0.9 1246 6.6 1937 0.5	0107 7.3 0734 0.9 1320 7.3 2015 0.5	0127 7.3 0807 0.8 1340 7.2 2044 0.4

8	0550	0.7	0017	4.9	0027	5.5	0043	6.1	0118	6.8	0150	7.5	0210	7.4
W	1205	4.5	0620	0.7	0637	0.8	0702	0.8	0744	0.8	0823	0.8	0856	0.8
	1826	0.3	1212	5.0	1234	5.6	1253	6.1	1327	6.8	1401	7.4	1422	7.4
			1852	0.4	1910	0.4	1938	0.4	2019	0.4	2059	0.5	2129	0.4
9	0033	4.6	0057	4.9	0108	5.6	0125	6.2	0159	6.9	0231	7.5	0252	7.5
TH	0631	0.6	0701	0.7	0719	0.7	0745	0.7	0827	0.8	0907	0.8	0940	0.7
	1248	4.6	1255	5.1	1316	5.7	1334	6.2	1409	6.9	1442	7.5	1503	7.5
	1905	0.3	1931	0.4	1949	0.5	2017	0.5	2058	0.5	2138	0.5	2209	0.4
10	0116	4.5	0137	4.9	0149	5.5	0206	6.1	0241	6.8	0312	7.5	0333	7.4
F	0713	0.6	0742	0.7	0801	0.7	0825	0.7	0907	0.8	0946	0.8	1019	0.7
	1331	4.6	1342	5.0	1400	5.6	1417	6.1	1452	6.9	1524	7.5	1544	7.5
	1944	0.5	2010	0.6	2027	0.6	2052	0.6	2132	0.7	2210	0.7	2243	0.6
11	0159	4.4	0218	4.8	0231	5.3	0248	5.9	0322	6.6	0353	7.2	0413	7.2
SA	0755	0.6	0824	0.8	0842	0.8	0904	0.8	0944	0.8	1021	0.8	1054	0.8
	1416	4.5	1431	4.9	1446	5.5	1502	6.0	1535	6.7	1607	7.3	1627	7.3
	2023	0.7	2050	0.8	2105	0.9	2126	0.9	2204	0.9	2237	0.9	2312	0.9
12	0244	4.2	0259	4.6	0314	5.1	0331	5.6	0404	6.3	0434	6.9	0454	6.8
SU	0841	0.7	0909	0.9	0926	0.9	0943	0.9	1020	1.0	1054	1.0	1127	0.9
	1504	4.3	1524	4.7	1536	5.2	1550	5.7	1622	6.4	1652	7.0	1713	6.9
	2108	0.9	2134	1.1	2147	1.2	2203	1.2	2237	1.2	2309	1.2	2343	1.1
13	0332	3.9	0346	4.4	0402	4.8	0418	5.3	0448	5.9	0518	6.5	0538	6.4
M	0935	0.8	1002	1.1	1016	1.1	1029	1.1	1101	1.1	1132	1.2	1203	1.1
☾	1600	4.0	1624	4.4	1634	4.9	1648	5.3	1717	6.0	1745	6.5	1806	6.5
	2206	1.2	2231	1.4	2241	1.5	2252	1.5	2323	1.6	2352	1.6		
14	0430	3.7	0445	4.1	0501	4.6	0516	4.9	0543	5.5	0610	6.1	0624	1.5
TU	1045	1.0	1117	1.2	1123	1.3	1130	1.3	1159	1.4	1224	1.4	0630	6.0
	1712	3.7	1739	4.2	1747	4.6	1801	5.0	1829	5.6	1853	6.2	1253	1.3
	2326	1.5	2353	1.7	2356	1.8							1914	6.1
15	0546	3.5	0609	4.0	0619	4.4	0604	1.8	0031	1.9	0056	1.9	0123	1.8
W	1218	1.0	1250	1.3	1254	1.3	0634	4.7	0659	5.3	0722	5.8	0741	5.7
	1841	3.6	1909	4.1	1914	4.5	1300	1.4	1322	1.5	1346	1.6	1409	1.5
							1926	4.9	1951	5.5	2016	6.0	2036	6.0

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TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE	MARGATE	SHIVERING SAND	SOUTHEND -ON-SEA	TILBURY	NORTH WOOLWICH (TOWER PIER)	LONDON BRIDGE
	Time m	Time m	Time m	Time m	Time m	Time m	Time m
16 TH	0058 1.5 0712 3.5 1349 0.9 2005 3.8	0131 1.7 0736 4.0 1418 1.1 2036 4.2	0133 1.9 0747 4.4 1425 1.2 2040 4.7	0138 1.9 0803 4.8 1437 1.2 2051 5.1	0158 2.0 0828 5.3 1459 1.4 2117 5.7	0224 2.1 0853 5.8 1519 1.4 2140 6.2	0244 1.9 0911 5.8 1539 1.4 2157 6.2
17 F	0216 1.4 0829 3.7 1505 0.7 2112 4.0	0251 1.6 0850 4.2 1530 0.9 2144 4.4	0256 1.7 0902 4.6 1540 1.0 2148 4.9	0306 1.7 0919 5.0 1556 1.0 2200 5.4	0333 1.8 0949 5.6 1627 1.0 2230 6.0	0353 1.9 1015 6.1 1648 1.1 2255 6.6	0414 1.8 1031 6.1 1712 1.0 2312 6.5
18 SA	0317 1.2 0928 3.9 1558 0.6 2201 4.1	0348 1.4 0950 4.4 1624 0.8 2235 4.6	0356 1.4 1001 4.9 1635 0.8 2239 5.1	0410 1.4 1018 5.3 1653 0.8 2253 5.6	0443 1.4 1050 6.0 1726 0.8 2324 6.3	0508 1.5 1118 6.5 1755 0.8 2351 6.9	0534 1.4 1135 6.5 1821 0.7
19 SU	0400 1.1 1014 4.1 1639 0.5 2241 4.2	0431 1.2 1036 4.6 1704 0.7 2314 4.6	0441 1.3 1048 5.1 1717 0.7 2319 5.2	0457 1.2 1105 5.5 1736 0.7 2334 5.7	0533 1.2 1138 6.2 1811 0.7	0603 1.2 1207 6.8 1843 0.7	0609 6.8 0630 1.1 1225 6.7 1909 0.6
20 M	0436 1.0 1053 4.2 1711 0.6 2316 4.2	0505 1.1 1111 4.7 1736 0.7 2345 4.6	0519 1.1 1125 5.2 1750 0.8 2352 5.2	0536 1.1 1142 5.6 1810 0.7	0606 6.4 0614 1.1 1216 6.3 1847 0.7	0634 7.0 0647 1.1 1246 6.9 1920 0.7	0654 7.0 0716 1.0 1305 6.9 1949 0.6
21 TU	0509 0.9 1126 4.2 1739 0.6 2347 4.2	0537 1.0 1140 4.7 1804 0.7	0553 1.1 1157 5.2 1819 0.8	0608 5.7 0611 1.0 1214 5.7 1839 0.8	0641 6.4 0650 1.0 1248 6.3 1917 0.8	0711 7.0 0725 1.0 1319 7.0 1951 0.8	0731 7.0 0755 0.9 1340 6.9 2022 0.7
22 W	0542 0.8 1157 4.3 1808 0.6	0607 4.7 0610 0.9 1209 4.8 1832 0.8	0621 5.2 0626 1.0 1228 5.3 1847 0.8	0638 5.7 0644 1.0 1245 5.8 1906 0.8	0711 6.4 0723 1.0 1318 6.4 1944 0.8	0742 7.0 0757 1.0 1350 7.0 2018 0.8	0803 7.0 0830 0.9 1411 7.0 2051 0.8

23 TH	0017	4.3	0031	4.7	0049	5.2	0106	5.8	0139	6.4	0210	7.1	0232	7.0	23 TH	0859	0.9	0827	7.1	0859	0.9	1441	7.0	2116	0.8				
24 F	0046	4.2	0101	4.7	0118	5.2	0135	5.7	0208	6.4	0239	7.0	0259	7.0	24 F	0926	1.0	0854	1.0	0926	1.0	1452	7.0	1512	7.0	2139	0.9		
25 SA	0114	4.2	0131	4.6	0147	5.1	0204	5.6	0237	6.3	0307	6.9	0326	6.9	25 SA	0952	1.0	0921	1.1	0952	1.0	1543	6.8	2203	1.0	2306	1.0		
26 SU	0143	4.0	0201	4.5	0216	5.0	0232	5.5	0306	6.1	0336	6.7	0355	6.7	26 SU	1018	1.1	0946	1.2	1018	1.1	1614	6.5	2227	1.2	2355	1.2		
27 M	0813	0.9	0843	1.2	0854	1.2	0901	1.2	0929	1.3	1008	1.3	1041	1.2	27 M	1649	6.3	1629	6.3	1649	6.3	2220	1.4	2252	1.3	2322	1.5		
28 TU	0517	3.7	1538	4.1	1551	4.5	1605	5.0	1636	5.6	1707	6.1	1728	6.1	28 TU	2322	1.5	2252	1.6	2322	1.5	2322	1.5	2322	1.5	2322	1.5		
29 W	0329	3.6	0346	4.1	0401	4.5	0415	4.9	0445	5.5	0515	6.0	0538	6.0	29 W	1140	1.4	1111	1.5	1140	1.4	1817	5.9	1817	5.9	1817	5.9		
30 TH	1058	1.2	1129	1.5	1129	1.6	1126	1.6	1136	1.6	1203	1.7	1228	1.5	30 TH	1920	5.7	1902	5.7	1920	5.7	1920	5.7	1920	5.7	1920	5.7		
31 F	0548	3.4	0001	1.8	0005	1.9	0012	2.0	0024	2.0	0042	2.1	0103	2.0	31 F	0737	5.6	0720	5.6	0737	5.6	1321	1.8	1399	1.7	2047	5.8		
	1237	1.1	0607	3.8	0619	4.2	0630	4.6	0657	5.1	0720	5.6	0737	5.6		1399	1.7	1321	1.8	1399	1.7	2047	5.8	2047	5.8	2047	5.8		
	1855	3.5	1304	1.4	1307	1.5	1313	1.6	1318	1.7	1321	1.8	1399	1.7		2003	5.3	2003	5.3	2003	5.3	2003	5.3	2003	5.3	2003	5.3	2003	5.3
	1919	3.9	1919	3.9	1923	4.3	1935	4.7	1935	4.7	1935	4.7	1935	4.7		2003	5.3	2003	5.3	2003	5.3	2003	5.3	2003	5.3	2003	5.3	2003	5.3

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	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 SA	0110 1.5 0717 3.5 1352 0.9 2008 3.7	0134 1.7 0738 4.0 1422 1.2 2036 4.2	0137 1.8 0747 4.4 1430 1.3 2040 4.6	0149 1.9 0800 4.7 1443 1.3 2051 5.1	0211 2.0 0827 5.3 1504 1.4 2119 5.7	0231 2.1 0852 5.8 1531 1.6 2147 6.2	0252 2.0 0910 5.7 1554 1.5 2205 6.2
2 SU	0215 1.3 0823 3.7 1452 0.7 2105 4.0	0247 1.4 0846 4.2 1523 0.9 2134 4.5	0253 1.6 0856 4.7 1533 1.0 2140 5.0	0305 1.5 0912 5.1 1548 1.0 2153 5.4	0331 1.6 0940 5.7 1616 1.1 2223 6.1	0359 1.7 1009 6.2 1642 1.1 2251 6.7	0422 1.6 1028 6.2 1704 1.1 2309 6.7
3 M	0307 1.0 0918 4.0 1544 0.5 2154 4.2	0341 1.2 0937 4.5 1614 0.7 2222 4.7	0350 1.3 0951 5.0 1626 0.7 2230 5.2	0404 1.2 1008 5.4 1645 0.8 2244 5.8	0436 1.3 1039 6.1 1718 0.8 2317 6.4	0504 1.3 1110 6.7 1744 0.8 2347 7.1	0528 1.3 1129 6.6 1811 0.8 2399 6.7
4 TU	0355 0.9 1007 4.2 1632 0.4 2239 4.4	0428 1.0 1022 4.7 1700 0.6 2305 4.8	0439 1.1 1039 5.2 1714 0.6 2315 5.4	0457 1.0 1056 5.7 1737 0.6 2331 6.0	0533 1.0 1130 6.4 1815 0.6 2377 6.4	0603 1.1 1202 7.0 1846 0.7 2422 7.0	0605 7.0 0633 1.0 1222 7.0 1918 0.6
5 W	0440 0.7 1054 4.4 1717 0.4 2324 4.5	0512 0.8 1104 4.9 1743 0.5 2347 4.9	0527 0.9 1123 5.4 1800 0.5 2359 5.5	0548 0.9 1142 6.0 1826 0.6 1911 0.6	0605 6.7 0627 0.9 1217 6.6 1906 0.6	0636 7.3 0701 1.0 1250 7.3 1942 0.6	0656 7.3 0735 0.9 1310 7.3 2014 0.6
6 TH	0526 0.6 1140 4.5 1801 0.4	0556 0.7 1149 5.0 1826 0.5	0613 0.8 1209 5.6 1844 0.5	0615 6.1 0638 0.8 1227 6.1 1911 0.6	0650 6.8 0719 0.8 1302 6.8 1952 0.6	0722 7.4 0756 0.9 1336 7.4 2031 0.6	0742 7.4 0829 0.8 1357 7.4 2102 0.6
7 F	0009 4.5 0612 0.6 1226 4.6 1843 0.5	0029 4.9 0641 0.7 1239 5.0 1909 0.6	0042 5.5 0700 0.7 1256 5.6 1926 0.6	0059 6.1 0726 0.7 1313 6.2 1954 0.6	0135 6.8 0808 0.8 1348 6.9 2034 0.7	0207 7.4 0846 0.8 1421 7.5 2113 0.7	0227 7.4 0918 0.7 1442 7.5 2145 0.6

8	0054	4.5	0113	4.8	0127	5.4	0144	6.0	0219	6.7	0251	7.3	0311	7.3	8
SA	0658	0.6	0728	0.7	0746	0.7	0811	0.7	0853	0.7	0930	0.8	1002	0.8	SA
	1313	4.6	1333	5.0	1345	5.6	1401	6.1	1435	6.8	1508	7.5	1528	7.4	
	1925	0.6	1952	0.8	2008	0.8	2032	0.8	2112	0.8	2149	0.9	2222	0.8	
9	0140	4.3	0157	4.8	0212	5.3	0229	5.8	0303	6.5	0335	7.1	0355	7.1	9
SU	0746	0.6	0815	0.7	0832	0.7	0854	0.7	0934	0.8	1009	0.8	1042	0.7	SU
	1402	4.5	1428	4.8	1436	5.4	1451	6.0	1524	6.7	1555	7.3	1615	7.2	
	2008	0.8	2035	1.0	2049	1.0	2110	1.0	2147	1.1	2221	1.1	2256	1.0	
10	0227	4.1	0243	4.6	0258	5.1	0315	5.6	0348	6.2	0419	6.8	0439	6.8	10
M	0835	0.6	0905	0.8	0919	0.8	0937	0.8	1014	0.9	1046	0.9	1108	0.8	M
	1453	4.3	1522	4.7	1529	5.2	1543	5.7	1615	6.4	1644	7.0	1705	6.9	
	2054	1.1	2122	1.2	2134	1.3	2149	1.3	2224	1.3	2256	1.3	2330	1.3	
11	0317	3.9	0331	4.4	0348	4.9	0404	5.3	0436	5.9	0505	6.5	0524	6.4	11
TU	0931	0.7	1003	0.9	1012	0.9	1025	1.0	1058	1.0	1126	1.1	1157	1.0	TU
	1550	4.0	1619	4.4	1627	4.9	1642	5.4	1712	6.0	1739	6.6	1759	6.6	
	2149	1.3	2217	1.5	2226	1.6	2237	1.6	2309	1.6	2339	1.6			
12	0414	3.7	0428	4.2	0445	4.7	0501	5.0	0530	5.6	0557	6.1	0611	1.5	12
W	1039	0.8	1112	1.1	1116	1.1	1125	1.1	1153	1.2	1217	1.2	0615	6.1	W
€	1658	3.8	1728	4.2	1733	4.7	1748	5.1	1817	5.8	1843	6.3	1245	1.1	€
	2300	1.5	2328	1.7	2332	1.8	2340	1.8	1926	5.6	1953	6.2	1903	6.3	
13	0522	3.6	0544	4.1	0554	4.5	0610	4.9	0638	5.4	0703	5.9	0721	5.9	13
TH	1159	0.8	1229	1.1	1233	1.2	1243	1.2	1305	1.3	1329	1.4	1353	1.3	TH
	1813	3.7	1845	4.1	1848	4.6	1900	5.0	1926	5.6			2012	6.1	
14	0021	1.5	0053	1.7	0053	1.8	0100	1.9	0123	1.9	0149	2.0	0213	1.9	14
F	0635	3.6	0701	4.1	0710	4.5	0727	4.8	0752	5.4	0819	5.9	0837	5.8	F
	1315	0.8	1344	1.1	1350	1.1	1402	1.2	1422	1.3	1447	1.3	1507	1.3	
	1928	3.7	1959	4.2	2004	4.6	2014	5.0	2039	5.6	2104	6.2	2121	6.2	
15	0133	1.4	0208	1.6	0212	1.7	0218	1.8	0241	1.8	0308	1.9	0331	1.8	15
SA	0748	3.7	0808	4.2	0821	4.6	0837	5.0	0906	5.5	0932	6.0	0949	6.0	SA
	1426	0.8	1448	1.0	1458	1.0	1512	1.1	1537	1.2	1557	1.2	1617	1.1	
	2034	3.8	2109	4.3	2109	4.8	2120	5.2	2149	5.8	2213	6.4	2290	6.3	

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	WALTON-ON-THE-NAZE	MARGATE	SHIVERING SAND	SOUTHEND -ON-SEA	TILBURY	NORTH WOOLWICH (TOWER PIER)	LONDON BRIDGE
	Time m	Time m	Time m	Time m	Time m	Time m	Time m
16 SU	0234 1.3 0850 3.8 1521 0.7 2126 3.9	0306 1.5 0906 4.3 1541 0.9 2155 4.4	0314 1.6 0921 4.7 1553 1.0 2202 4.9	0323 1.6 0937 5.2 1608 1.0 2214 5.3	0352 1.6 1009 5.7 1638 1.1 2245 6.0	0419 1.7 1036 6.3 1700 1.1 2312 6.6	0442 1.6 1053 6.2 1724 1.0 2330 6.5
17 M	0323 1.2 0939 3.9 1602 0.7 2208 4.0	0353 1.3 0955 4.4 1623 0.9 2235 4.4	0403 1.4 1010 4.9 1635 1.0 2244 5.0	0415 1.4 1026 5.3 1651 1.0 2258 5.4	0448 1.4 1059 5.9 1724 1.0 2330 6.1	0517 1.5 1128 6.5 1751 1.0 2359 6.7	0543 1.4 1146 6.5 1820 1.0 2418 6.7
18 TU	0403 1.1 1020 4.0 1634 0.8 2245 4.1	0438 1.2 1036 4.5 1657 0.9 2307 4.5	0445 1.3 1051 5.0 1710 1.0 2319 5.0	0458 1.3 1108 5.4 1726 1.0 2334 5.5	0533 1.3 1141 6.0 1801 1.0	0605 1.3 1212 6.6 1831 1.0	0618 6.7 0634 1.2 1231 6.6 1903 0.9
19 W	0440 0.9 1056 4.1 1705 0.8 2318 4.1	0510 1.1 1111 4.5 1730 0.9 2334 4.5	0523 1.1 1127 5.0 1743 1.0 2350 5.0	0537 1.1 1144 5.5 1759 1.0	0607 6.2 0613 1.1 1218 6.1 1835 1.0	0637 6.8 0646 1.2 1249 6.7 1907 1.0	0657 6.7 0716 1.1 1309 6.7 1939 1.0
20 TH	0516 0.9 1130 4.1 1736 0.8 2349 4.1	0546 1.0 1145 4.6 1802 1.0	0559 1.1 1202 5.1 1816 1.0	0606 5.5 0614 1.1 1219 5.6 1832 1.0	0640 6.2 0651 1.1 1252 6.2 1908 1.0	0710 6.8 0724 1.1 1323 6.8 1941 1.0	0732 6.8 0755 1.1 1345 6.8 2013 1.0
21 F	0551 0.8 1203 4.1 1807 0.8	0602 4.6 0621 1.0 1220 4.6 1834 1.0	0620 5.1 0634 1.0 1236 5.1 1847 1.0	0637 5.6 0649 1.0 1253 5.6 1903 1.0	0710 6.3 0725 1.1 1326 6.3 1939 1.1	0741 6.8 0758 1.1 1357 6.8 2012 1.1	0803 6.8 0830 1.0 1418 6.8 2044 1.0
22 SA	0019 4.1 0624 0.8 1237 4.1 1836 0.9	0634 4.6 0654 1.0 1256 4.5 1904 1.1	0651 5.1 0707 1.0 1311 5.1 1917 1.1	0721 1.1 1327 5.6 1931 1.1	0756 1.1 1400 6.2 2006 1.1	0821 6.8 0830 1.1 1430 6.8 2040 1.1	0832 6.8 0902 1.0 1450 6.7 2113 1.1

23 SU	0050 4.1 0656 0.8 1311 4.1 1903 1.0	0107 4.6 0726 1.0 1332 4.5 1934 1.1	0123 5.1 0739 1.0 1346 5.0 1945 1.2	0139 5.5 0751 1.1 1401 5.5 1958 1.2	0213 6.2 0825 1.1 1434 6.1 2032 1.2	0242 6.8 0900 1.1 1504 6.7 2108 1.2	0302 6.7 0933 1.1 1523 6.7 2141 1.2	23 SU
24 M	0122 4.0 0728 0.8 1345 4.0 1933 1.0	0140 4.5 0758 1.0 1410 4.4 2007 1.2	0155 5.0 0810 1.1 1421 4.9 2017 1.2	0211 5.4 0821 1.1 1436 5.4 2029 1.2	0245 6.1 0853 1.1 1508 6.0 2101 1.3	0315 6.6 0929 1.2 1539 6.5 2137 1.3	0334 6.6 1002 1.1 1557 6.5 2210 1.2	24 M
25 TU	0156 3.9 0803 0.9 1422 3.9 2010 1.1	0213 4.4 0834 1.1 1448 4.3 2045 1.3	0228 4.9 0844 1.1 1458 4.8 2053 1.3	0244 5.3 0854 1.1 1512 5.2 2104 1.3	0317 5.9 0922 1.2 1545 5.9 2134 1.4	0348 6.5 0957 1.2 1616 6.4 2209 1.4	0407 6.5 1029 1.2 1635 6.4 2240 1.3	25 TU
26 W	0232 3.9 0843 0.9 1503 3.8 2054 1.2	0249 4.3 0916 1.1 1531 4.2 2129 1.4	0303 4.8 0924 1.2 1539 4.7 2136 1.5	0319 5.2 0931 1.2 1553 5.1 2146 1.5	0352 5.8 0954 1.2 1625 5.7 2212 1.5	0423 6.3 1027 1.3 1657 6.3 2246 1.5	0444 6.3 1058 1.2 1716 6.3 2314 1.4	26 W
27 TH	0314 3.7 0932 0.9 1550 3.7 2147 1.3	0331 4.2 1006 1.2 1621 4.1 2222 1.5	0345 4.6 1011 1.2 1629 4.5 2228 1.6	0400 5.1 1015 1.3 1642 5.0 2237 1.6	0432 5.7 1033 1.3 1713 5.6 2259 1.6	0503 6.2 1105 1.3 1744 6.2 2330 1.6	0524 6.2 1133 1.2 1804 6.2 2356 1.6	27 TH
28 F	0405 3.6 1034 1.0 1649 3.6 2254 1.4	0424 4.1 1107 1.2 1721 4.0 2323 1.6	0436 4.5 1109 1.3 1729 4.5 2331 1.7	0451 4.9 1112 1.4 1742 4.9 2342 1.7	0521 5.5 1124 1.4 1813 5.6 2342 1.7	0551 6.1 1153 1.4 1841 6.1 2342 1.7	0611 6.1 1219 1.3 1859 6.1 2342 1.7	28 F
29 SA	0508 3.6 1150 0.9 1803 3.6	0527 4.1 1219 1.2 1831 4.0	0540 4.5 1222 1.3 1839 4.5	0554 4.9 1227 1.4 1852 5.0	0002 1.8 0623 5.5 1238 1.4 1924 5.6	0026 1.8 0649 6.0 1256 1.5 1950 6.1	0050 1.7 0708 6.0 1320 1.4 2009 6.1	29 SA
30 SU	0011 1.4 0624 3.6 1305 0.8 1919 3.8	0036 1.6 0640 4.1 1335 1.1 1946 4.2	0043 1.7 0654 4.5 1340 1.2 1951 4.7	0056 1.7 0708 4.9 1350 1.2 2005 5.1	0122 1.8 0738 5.5 1411 1.3 2035 5.8	0143 1.8 0803 6.0 1431 1.4 2105 6.3	0206 1.8 0819 6.0 1458 1.4 2124 6.3	30 SU

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	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 M	0124 1.3 0736 3.8 1410 0.7 2023 3.9	0155 1.4 0754 4.3 1440 0.9 2050 4.4	0159 1.5 0806 4.7 1448 1.0 2057 4.8	0211 1.5 0823 5.1 1501 1.0 2111 5.3	0239 1.6 0853 5.7 1526 1.1 2141 6.0	0307 1.7 0923 6.2 1555 1.2 2211 6.6	0332 1.6 0943 6.2 1619 1.1 2230 6.6
2 TU	0227 1.1 0839 3.9 1508 0.6 2120 4.1	0300 1.2 0856 4.4 1537 0.8 2146 4.5	0307 1.3 0910 4.9 1548 0.8 2155 5.0	0320 1.3 0928 5.3 1604 0.9 2210 5.6	0350 1.4 0959 6.0 1634 0.9 2242 6.2	0420 1.4 1031 6.5 1701 1.0 2312 6.8	0446 1.4 1051 6.5 1726 0.9 2331 6.8
3 W	0323 0.9 0936 4.1 1602 0.5 2212 4.2	0355 1.1 0951 4.6 1629 0.7 2236 4.6	0406 1.1 1007 5.1 1643 0.7 2247 5.2	0421 1.1 1025 5.6 1703 0.8 2303 5.7	0455 1.2 1058 6.3 1739 0.8 2337 6.4	0527 1.2 1131 6.8 1807 0.9	0555 1.2 1151 6.8 1838 0.8
4 TH O	0416 0.8 1029 4.3 1653 0.5 2302 4.3	0447 0.9 1043 4.8 1719 0.7 2323 4.7	0502 0.9 1100 5.3 1734 0.7 2336 5.3	0521 1.0 1118 5.8 1758 0.7 2352 5.8	0559 1.0 1152 6.5 1837 0.8	0608 7.0 0632 1.0 1225 7.1 1911 0.8	0627 7.0 0704 1.0 1246 7.1 1944 0.8
5 F	0509 0.7 1120 4.5 1742 0.6 2350 4.4	0538 0.8 1137 4.8 1807 0.7	0555 0.8 1152 5.4 1823 0.7	0618 0.8 1208 6.0 1849 0.7	0627 6.5 0658 0.8 1243 6.7 1929 0.8	0659 7.2 0734 0.9 1316 7.3 2007 0.8	0719 7.1 0807 0.9 1337 7.3 2038 0.8
6 SA	0601 0.5 1210 4.5 1829 0.6	0610 4.8 0630 0.7 1234 4.9 1854 0.7	0624 5.3 0647 0.7 1244 5.5 1910 0.8	0640 5.9 0712 0.7 1259 6.1 1936 0.8	0615 6.6 0753 0.7 1334 6.8 2017 0.8	0617 7.2 0830 0.8 1407 7.4 2055 0.9	0722 7.2 0901 0.7 1427 7.3 2126 0.8
7 SU	0038 4.3 0653 0.5 1300 4.5 1914 0.8	0057 4.8 0721 0.6 1330 4.9 1940 0.9	0111 5.3 0738 0.6 1337 5.5 1956 0.9	0128 5.9 0803 0.6 1351 6.1 2020 0.9	0203 6.6 0844 0.7 1425 6.8 2059 0.9	0235 7.2 0921 0.7 1457 7.4 2137 1.0	0255 7.1 0951 0.6 1517 7.3 2209 0.9

8	0126	4.3	0144	4.7	0159	5.3	0215	5.8	0250	6.5	0322	7.1	0341	7.0
M	0744	0.5	0813	0.6	0828	0.6	0851	0.6	0930	0.6	1006	0.7	1036	0.6
	1351	4.4	1423	4.8	1429	5.4	1443	6.0	1517	6.7	1547	7.3	1607	7.2
	1958	0.9	2025	1.0	2039	1.1	2100	1.1	2138	1.1	2214	1.1	2247	1.0
9	0214	4.2	0231	4.6	0246	5.1	0303	5.6	0337	6.3	0408	6.9	0427	6.8
TU	0834	0.5	0904	0.6	0916	0.6	0937	0.7	1014	0.7	1048	0.7	1118	0.7
	1442	4.3	1514	4.6	1521	5.2	1535	5.8	1608	6.4	1637	7.0	1657	7.0
	2042	1.1	2110	1.2	2122	1.2	2138	1.2	2215	1.3	2249	1.3	2323	1.2
10	0303	4.0	0317	4.5	0334	5.0	0351	5.5	0424	6.1	0454	6.6	0512	6.6
W	0926	0.5	0956	0.7	1005	0.7	1022	0.8	1056	0.8	1126	0.9	1156	0.8
	1535	4.1	1606	4.5	1612	5.0	1628	5.5	1700	6.2	1728	6.7	1747	6.7
	2128	1.2	2157	1.4	2207	1.4	2219	1.4	2253	1.4	2326	1.5	2359	1.4
11	0353	3.9	0406	4.4	0423	4.8	0440	5.2	0513	5.8	0540	6.3	0558	6.3
TH	1021	0.6	1051	0.8	1057	0.9	1110	0.9	1140	1.0	1207	1.0	1237	0.9
€	1632	3.9	1702	4.3	1707	4.8	1722	5.3	1754	5.9	1821	6.5	1841	6.4
	2222	1.3	2248	1.5	2257	1.6	2306	1.6	2338	1.6				
12	0447	3.8	0504	4.2	0518	4.7	0535	5.1	0606	5.6	0609	1.6	0640	1.6
F	1122	0.7	1150	1.0	1155	1.0	1205	1.1	1231	1.1	0632	6.1	0649	6.1
	1731	3.7	1803	4.1	1806	4.6	1820	5.0	1849	5.7	1256	1.2	1325	1.1
	2326	1.4	2352	1.6	2355	1.7					1917	6.2	1936	6.2
13	0546	3.7	0611	4.1	0619	4.5	0636	4.9	0704	5.5	0731	6.0	0750	6.0
SA	1224	0.8	1252	1.1	1256	1.1	1306	1.2	1328	1.2	1354	1.3	1421	1.2
	1834	3.6	1906	4.0	1910	4.5	1921	4.9	1947	5.5	2015	6.1	2034	6.1
14	0034	1.4	0106	1.7	0106	1.8	0111	1.8	0135	1.8	0158	1.9	0229	1.8
SU	0649	3.6	0715	4.1	0725	4.5	0741	4.8	0807	5.4	0836	5.9	0855	5.9
	1324	0.9	1351	1.1	1358	1.2	1407	1.2	1428	1.3	1455	1.4	1521	1.3
	1939	3.6	2005	4.0	2014	4.5	2024	4.9	2049	5.5	2115	6.1	2133	6.0
15	0137	1.4	0211	1.6	0217	1.7	0220	1.7	0242	1.8	0310	1.9	0340	1.8
M	0755	3.6	0815	4.1	0829	4.5	0843	4.9	0912	5.5	0939	6.0	0958	6.0
	1421	0.9	1445	1.2	1455	1.2	1503	1.3	1527	1.3	1555	1.4	1619	1.3
	2039	3.6	2100	4.1	2112	4.5	2123	4.9	2150	5.6	2216	6.1	2233	6.1

DECEMBER 2025

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE	MARGATE	SHIVERING SAND	SOUTHEND -ON-SEA	TILBURY	NORTH WOOLWICH (TOWER PIER)	LONDON BRIDGE
	Time m	Time m	Time m	Time m	Time m	Time m	Time m
16 TU	0235 1.3 0856 3.7 1511 1.0 2130 3.7	0308 1.5 0910 4.2 1534 1.2 2149 4.2	0317 1.6 0926 4.6 1546 1.2 2201 4.6	0322 1.6 0941 5.0 1555 1.2 2215 5.0	0347 1.7 1012 5.6 1623 1.3 2245 5.7	0418 1.8 1040 6.1 1651 1.4 2312 6.2	0446 1.7 1058 6.1 1716 1.3 2331 6.2
17 W	0328 1.2 0946 3.8 1555 0.9 2213 3.8	0358 1.4 1001 4.2 1619 1.1 2230 4.3	0409 1.4 1017 4.7 1632 1.2 2245 4.7	0417 1.4 1032 5.1 1643 1.2 2259 5.2	0446 1.5 1105 5.7 1714 1.3 2331 5.8	0517 1.6 1134 6.3 1744 1.3	0544 1.5 1152 6.3 1811 1.3
18 TH	0414 1.0 1029 3.9 1636 0.9 2252 3.9	0445 1.2 1047 4.3 1702 1.1 2307 4.4	0456 1.3 1102 4.8 1714 1.2 2323 4.8	0507 1.3 1117 5.2 1728 1.2 2339 5.3	0538 1.3 1151 5.9 1801 1.2	0600 6.4 0609 1.4 1221 6.4 1832 1.2	0620 6.4 0637 1.3 1240 6.4 1901 1.2
19 F	0457 0.9 1108 3.9 1714 0.9 2327 4.0	0528 1.1 1128 4.4 1741 1.1 2342 4.4	0539 1.1 1142 4.8 1753 1.1 2359 4.9	0552 1.1 1158 5.3 1809 1.2	0625 1.2 1232 6.0 1843 1.2	0642 6.5 0656 1.2 1303 6.5 1914 1.2	0724 1.2 0724 1.2 1323 6.5 1945 1.2
20 SA ●	0537 0.8 1145 4.0 1749 1.0	0607 1.0 1206 4.4 1816 1.1	0618 1.0 1220 4.9 1829 1.1	0615 5.4 0633 1.1 1236 5.4 1844 1.2	0649 6.0 0707 1.1 1310 6.0 1919 1.2	0719 6.6 0738 1.1 1341 6.6 1952 1.2	0808 1.1 0808 1.1 1402 6.6 2024 1.2
21 SU	0001 4.0 0613 0.8 1221 4.0 1821 1.0	0016 4.5 0643 1.0 1243 4.4 1849 1.1	0033 5.0 0655 1.0 1257 4.9 1901 1.1	0050 5.4 0710 1.1 1313 5.4 1915 1.2	0125 6.1 0744 1.1 1347 6.1 1950 1.2	0155 6.6 0815 1.1 1417 6.6 2024 1.2	0215 6.6 0847 1.1 1437 6.6 2100 1.2
22 M	0035 4.0 0648 0.8 1257 4.0 1852 0.9	0050 4.5 0717 0.9 1321 4.4 1921 1.1	0107 5.0 0730 0.9 1333 5.0 1933 1.1	0125 5.5 0743 1.0 1349 5.5 1946 1.1	0159 6.1 0817 1.1 1422 6.1 2020 1.2	0229 6.6 0851 1.1 1453 6.6 2056 1.2	0249 6.6 0925 1.1 1512 6.6 2133 1.2

23 TU	0110 0724 1333 1925	4.0 0.7 4.0 0.9	0126 0752 1400 1956	4.5 0.9 4.4 1.1	0142 0805 1410 2008	5.0 0.9 5.0 1.1	0200 0818 1426 2020	5.5 1.0 5.5 1.1	0233 0851 1458 2054	6.1 1.0 6.1 1.1	0304 0925 1529 2130	6.6 1.1 6.7 1.1	0323 1001 1548 2206	6.6 1.0 6.6 1.2
24 W	0146 0801 1411 2002	4.0 0.7 4.0 1.0	0203 0830 1440 2034	4.5 0.9 4.4 1.1	0218 0842 1448 2045	5.0 0.9 4.9 1.1	0235 0855 1503 2059	5.4 0.9 5.4 1.1	0308 0926 1536 2132	6.0 1.0 6.1 1.1	0339 0958 1606 2206	6.6 1.0 6.7 1.2	0358 1034 1625 2239	6.6 1.0 6.6 1.2
25 TH	0223 0840 1451 2043	4.0 0.7 4.0 1.0	0239 0910 1521 2116	4.5 0.9 4.3 1.2	0253 0921 1528 2126	4.9 0.9 4.8 1.2	0310 0933 1543 2140	5.4 0.9 5.3 1.2	0344 1001 1616 2211	6.0 1.0 6.0 1.2	0415 1031 1646 2244	6.5 1.0 6.6 1.2	0434 1103 1706 2314	6.5 1.0 6.6 1.2
26 F	0302 0922 1535 2128	3.9 0.7 3.9 1.1	0317 0954 1603 2200	4.4 0.9 4.3 1.2	0332 1002 1612 2211	4.9 0.9 4.8 1.3	0348 1013 1627 2223	5.3 1.0 5.3 1.3	0421 1037 1700 2252	5.9 1.0 5.9 1.3	0452 1105 1730 2324	6.5 1.1 6.5 1.3	0512 1134 1749 2352	6.5 1.1 6.5 1.3
27 SA ☽	0345 1010 1625 2221	3.9 0.7 3.8 1.2	0400 1041 1651 2249	4.3 0.9 4.2 1.3	0415 1048 1702 2301	4.8 1.0 4.7 1.4	0431 1055 1717 2311	5.2 1.0 5.2 1.4	0503 1116 1749 2338	5.8 1.1 5.8 1.4	0534 1145 1818	6.4 1.1 6.4	0553 1213 1837	6.4 1.1 6.4
28 SU	0437 1108 1725 2323	3.8 0.8 3.8 1.2	0452 1136 1747 2347	4.3 1.0 4.2 1.4	0507 1142 1800 2359	4.7 1.0 4.6 1.4	0522 1147 1815	5.2 1.1 5.1	0552 1205 1848	5.8 1.1 5.8	0609 0622 1915	1.5 6.3 6.3	0036 0641 1301 1934	1.4 6.3 1.1 6.3
29 M	0539 1216 1834	3.8 0.8 3.7	0552 1243 1955	4.3 1.0 4.1	0609 1248 1906	4.7 1.1 4.6	0609 0623 1254 1921	1.5 5.1 1.1 5.1	0035 0654 1314 1954	1.5 5.7 1.2 5.7	0104 0720 1337 2023	1.5 6.3 1.3 6.3	0131 0738 1407 2043	1.5 6.3 1.2 6.3
30 TU	0035 0652 1328 1944	1.2 3.8 0.8 3.8	0100 0704 1357 2008	1.4 4.3 1.0 4.2	0108 0721 1403 2016	1.5 4.7 1.1 4.7	0119 0737 1413 2031	1.5 5.1 1.1 5.1	0147 0809 1436 2102	1.6 5.7 1.2 5.8	0214 0835 1505 2133	1.6 6.2 1.3 6.3	0242 0855 1534 2153	1.6 6.2 1.2 6.3
31 W	0149 0805 1437 2051	1.1 3.8 0.8 3.9	0220 0821 1504 2115	1.3 4.3 0.9 4.3	0227 0835 1514 2125	1.4 4.8 1.0 4.8	0238 0852 1527 2140	1.4 5.2 1.1 5.2	0307 0923 1554 2211	1.5 5.8 1.1 5.9	0338 0956 1624 2241	1.6 6.3 1.2 6.5	0406 1016 1649 2301	1.5 6.3 1.2 6.5

JANUARY 2026

TIME ZONE UT(GMT)

	WALTON-ON-THE-NAZE	MARGATE	SHIVERING SAND	SOUTHEND -ON-SEA	TILBURY	NORTH WOOLWICH (TOWER PIER)	LONDON BRIDGE	
	Time m	Time m	Time m	Time m	Time m	Time m	Time m	
1 TH	0257 1.0 0913 4.0 1540 0.7 2152 4.0	0328 1.1 0930 4.4 1606 0.9 2215 4.4	0340 1.2 0944 4.9 1619 0.9 2227 4.9	0353 1.2 1001 5.3 1636 1.0 2242 5.4	0424 1.3 1033 6.0 1709 1.1 2315 6.1	0456 1.4 1105 6.5 1736 1.1 2345 6.6	0525 1.4 1125 6.5 1806 1.1	1 TH
2 F	0401 0.8 1014 4.1 1638 0.7 2247 4.1	0431 1.0 1034 4.5 1718 0.9 2309 4.5	0445 1.0 1048 5.1 1739 0.9 2323 5.0	0502 1.0 1103 5.6 1739 0.9 2338 5.5	0539 1.1 1136 6.2 1817 1.0	0610 1.1 1208 6.8 1850 1.1	0605 6.6 0643 1.1 1228 6.8 1923 1.0	2 F
3 SA O	0502 0.6 1110 4.3 1731 0.7 2339 4.2	0530 0.8 1136 4.7 1756 0.8	0546 0.8 1146 5.2 1812 0.9	0607 0.8 1200 5.8 1835 0.9	0612 6.2 0646 0.8 1234 6.4 1914 0.9	0643 6.8 0721 0.9 1305 7.0 1951 1.0	0103 6.8 0753 0.9 1326 7.0 2022 0.9	3 SA O
4 SU	0559 0.5 1201 4.4 1819 0.7	0600 4.6 0625 0.6 1233 4.8 1844 0.8	0614 5.2 0642 0.6 1240 5.3 1901 0.8	0629 5.7 0706 0.6 1253 5.9 1925 0.9	0104 6.3 0745 0.6 1327 6.6 2005 0.9	0135 7.0 0823 0.7 1358 7.2 2043 0.9	0155 6.9 0852 0.6 1419 7.1 2113 0.8	4 SU
5 M	0027 4.3 0652 0.3 1251 4.4 1904 0.8	0048 4.7 0718 0.5 1325 4.8 1929 0.8	0102 5.2 0734 0.4 1331 5.4 1945 0.9	0118 5.8 0759 0.5 1344 6.0 2009 0.9	0152 6.4 0638 0.5 1418 6.7 2049 0.9	0224 7.0 0917 0.5 1449 7.3 2128 0.9	0244 7.0 0944 0.5 1509 7.2 2158 0.8	5 M
6 TU	0114 4.3 0740 0.3 1339 4.4 1945 0.8	0133 4.7 0807 0.4 1414 4.8 2011 0.9	0148 5.3 0822 0.4 1419 5.3 2026 0.9	0204 5.8 0847 0.4 1433 5.9 2049 0.9	0239 6.5 0925 0.4 1507 6.7 2128 0.9	0310 7.1 1003 0.5 1537 7.3 2207 1.0	0329 7.0 1031 0.4 1557 7.2 2238 0.9	6 TU
7 W	0159 4.3 0826 0.3 1426 4.3 2023 0.9	0216 4.7 0852 0.5 1459 4.6 2050 1.0	0232 5.2 0906 0.4 1505 5.2 2104 1.0	0248 5.8 0929 0.5 1520 5.8 2123 1.0	0323 6.4 1007 0.5 1554 6.5 2202 1.0	0354 7.0 1044 0.5 1623 7.2 2239 1.1	0413 7.0 1112 0.4 1642 7.1 2312 1.0	7 W

8	0243	4.2	0257	4.7	0314	5.2	0331	5.6	0406	6.3	0435	6.9	0453	6.8	8
TH	0908	0.4	0935	0.6	0947	0.6	1006	0.6	1042	0.6	1116	0.7	1147	0.6	TH
	1512	4.1	1541	4.5	1549	5.0	1604	5.6	1639	6.3	1707	6.9	1726	6.8	
	2100	1.0	2128	1.1	2141	1.2	2154	1.1	2230	1.2	2306	1.2	2341	1.1	
9	0325	4.1	0336	4.5	0355	5.0	0411	5.5	0446	6.1	0514	6.6	0532	6.6	9
F	0948	0.5	1016	0.7	1025	0.7	1038	0.7	1112	0.8	1143	0.8	1215	0.8	F
	1557	3.9	1621	4.3	1631	4.8	1647	5.3	1721	6.0	1749	6.6	1808	6.6	
	2139	1.1	2206	1.3	2217	1.3	2226	1.3	2300	1.3	2335	1.3			
10	0407	3.9	0417	4.4	0436	4.8	0452	5.3	0525	5.9	0552	6.4	0608	1.3	10
SA	1029	0.7	1057	0.9	1103	0.9	1112	0.9	1142	1.0	1211	1.0	0611	6.4	SA
☾	1643	3.7	1703	4.1	1715	4.6	1731	5.1	1803	5.7	1831	6.3	1243	1.0	☾
	2223	1.2	2248	1.4	2258	1.5	2305	1.4	2336	1.4			1851	6.3	
11	0452	3.8	0504	4.2	0522	4.6	0537	5.0	0609	5.6	0609	1.5	0039	1.5	11
SU	1117	0.8	1145	1.1	1148	1.1	1154	1.1	1220	1.2	0634	6.2	0653	6.1	SU
	1733	3.5	1753	3.9	1803	4.4	1818	4.8	1848	5.5	1247	1.2	1316	1.2	
	2319	1.4	2340	1.6	2348	1.6	2352	1.6			1915	6.0	1936	6.0	
12	0545	3.6	0603	4.0	0617	4.4	0631	4.8	0631	1.6	0050	1.7	0117	1.7	12
M	1213	1.0	1243	1.3	1245	1.3	1250	1.3	0702	5.4	0726	5.9	0748	5.9	M
	1828	3.4	1856	3.8	1900	4.2	1912	4.7	1312	1.4	1334	1.5	1404	1.4	
									1939	5.3	2006	5.9	2028	5.9	
13	0030	1.4	0057	1.7	0055	1.8	0056	1.8	0118	1.8	0141	1.9	0207	1.9	13
TU	0648	3.4	0716	3.9	0725	4.3	0739	4.6	0807	5.2	0833	5.7	0856	5.7	TU
	1315	1.1	1347	1.4	1351	1.5	1358	1.5	1418	1.6	1441	1.7	1513	1.6	
	1932	3.4	2002	3.8	2007	4.2	2017	4.6	2039	5.2	2105	5.8	2126	5.8	
14	0143	1.4	0218	1.6	0221	1.7	0222	1.8	0237	1.9	0254	2.0	0330	2.0	14
W	0801	3.4	0825	3.9	0838	4.2	0851	4.6	0918	5.2	0944	5.7	1004	5.7	W
	1419	1.2	1448	1.4	1458	1.5	1506	1.5	1529	1.6	1558	1.7	1624	1.7	
	2042	3.4	2104	3.9	2115	4.3	2125	4.7	2149	5.3	2212	5.8	2231	5.8	
15	0251	1.3	0324	1.5	0333	1.6	0338	1.6	0359	1.7	0429	1.9	0457	1.8	15
TH	0911	3.5	0931	3.9	0944	4.3	0957	4.7	1027	5.3	1054	5.9	1112	5.9	TH
	1520	1.1	1547	1.4	1559	1.4	1609	1.4	1636	1.5	1705	1.6	1729	1.6	
	2142	3.6	2200	4.0	2212	4.4	2226	4.8	2255	5.4	2322	6.0	2339	6.0	

2025 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	h m	h m	h m	h m
1 08 06	16 03	16 07 58	1 07 38	16 50	16 07 12	1 06 45	17 41	16 06 12	1 05 36	18 34	16 05 02
2 08 06	16 04	17 07 57	2 07 37	16 52	17 07 10	2 06 43	17 43	17 06 10	2 05 33	18 36	17 05 00
3 08 06	16 05	18 07 56	3 07 35	16 54	18 07 08	3 06 41	17 45	18 06 07	3 05 31	18 37	18 04 58
4 08 06	16 06	19 07 55	4 07 34	16 56	19 07 06	4 06 39	17 46	19 06 05	4 05 29	18 39	19 04 56
5 08 05	16 07	20 07 54	5 07 32	16 58	20 07 04	5 06 37	17 48	20 06 03	5 05 27	18 41	20 04 54
6 08 05	16 08	21 07 53	6 07 30	17 00	21 07 02	6 06 34	17 50	21 06 01	6 05 24	18 43	21 04 52
7 08 04	16 10	22 07 52	7 07 29	17 01	22 07 00	7 06 32	17 52	22 05 58	7 05 22	18 44	22 04 50
8 08 04	16 11	23 07 51	8 07 27	17 03	23 06 58	8 06 30	17 53	23 05 56	8 05 20	18 46	23 04 48
9 08 03	16 12	24 07 50	9 07 25	17 05	24 06 56	9 06 28	17 55	24 05 54	9 05 18	18 48	24 04 46
10 08 03	16 14	25 07 48	10 07 23	17 07	25 06 54	10 06 26	17 57	25 05 51	10 05 15	18 49	25 04 44
11 08 02	16 15	26 07 47	11 07 22	17 09	26 06 52	11 06 23	17 59	26 05 49	11 05 13	18 51	26 04 42
12 08 02	16 17	27 07 46	12 07 20	17 11	27 06 50	12 06 21	18 00	27 05 47	12 05 11	18 53	27 04 40
13 08 01	16 18	28 07 44	13 07 18	17 12	28 06 47	13 06 19	18 02	28 05 45	13 05 09	18 54	28 04 38
14 08 00	16 20	29 07 43	14 07 16	17 14		14 06 16	18 04	29 05 42	14 05 07	18 56	29 04 36
15 07 59	16 21	30 07 41	15 07 14	17 16		15 06 14	18 05	30 05 40	15 05 05	18 58	30 04 34
		31 07 40						31 05 38			

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2025 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	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	04 32	19 24 16 04	1	03 49	20 09 16 03	1	03 48	20 21 16 04	1	04 25	19 48 16 04
2	04 30	19 26 17 04	2	03 48	20 10 17 03	2	03 49	20 20 17 04	2	04 26	19 47 17 04
3	04 28	19 27 18 04	3	03 47	20 11 18 03	3	03 49	20 20 18 04	3	04 28	19 45 18 04
4	04 27	19 29 19 04	4	03 47	20 12 19 03	4	03 50	20 20 19 04	4	04 29	19 43 19 04
5	04 25	19 31 20 04	5	03 46	20 13 20 03	5	03 51	20 19 20 04	5	04 31	19 41 20 04
6	04 23	19 32 21 04	6	03 46	20 13 21 03	6	03 52	20 18 21 04	6	04 32	19 40 21 04
7	04 21	19 34 22 03	7	03 45	20 14 22 03	7	03 53	20 18 22 04	7	04 34	19 38 22 04
8	04 20	19 35 23 03	8	03 45	20 15 23 03	8	03 54	20 17 23 04	8	04 35	19 36 23 04
9	04 18	19 37 24 03	9	03 44	20 16 24 03	9	03 55	20 16 24 04	9	04 37	19 34 24 05
10	04 16	19 39 25 03	10	03 44	20 17 25 03	10	03 56	20 16 25 04	10	04 38	19 32 25 05
11	04 15	19 40 26 03	11	03 44	20 17 26 03	11	03 57	20 15 26 04	11	04 40	19 30 26 05
12	04 13	19 42 27 03	12	03 43	20 18 27 03	12	03 58	20 14 27 04	12	04 42	19 28 27 05
13	04 12	19 43 28 03	13	03 43	20 19 28 03	13	03 59	20 13 28 04	13	04 43	19 27 28 05
14	04 10	19 45 29 03	14	03 43	20 19 29 03	14	04 00	20 12 29 04	14	04 45	19 25 29 05
15	04 08	19 46 30 03	15	03 43	20 20 30 03	15	04 01	20 11 30 04	15	04 46	19 23 30 05
		31 03 50			20 07			31 04 23			31 05 12

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2025 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	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 05 13	18 46	16 05 37 18 12	1 06 01	17 38	16 06 26 17 05	1 06 54	16 33	16 07 21 16 10	1 07 44	15 55	16 08 01 15 52
2 05 15	18 44	17 05 39 18 10	2 06 03	17 36	17 06 28 17 03	2 06 56	16 31	17 07 22 16 08	2 07 45	15 54	17 08 01 15 52
3 05 17	18 42	18 05 40 18 08	3 06 05	17 33	18 06 30 17 01	3 06 58	16 30	18 07 24 16 07	3 07 47	15 54	18 08 02 15 52
4 05 18	18 40	19 05 42 18 05	4 06 06	17 31	19 06 32 16 58	4 07 00	16 28	19 07 26 16 06	4 07 48	15 53	19 08 03 15 53
5 05 20	18 37	20 05 44 18 03	5 06 08	17 29	20 06 33 16 56	5 07 01	16 26	20 07 27 16 05	5 07 49	15 53	20 08 03 15 53
6 05 21	18 35	21 05 45 18 01	6 06 10	17 27	21 06 35 16 54	6 07 03	16 25	21 07 29 16 04	6 07 51	15 52	21 08 04 15 54
7 05 23	18 33	22 05 47 17 58	7 06 11	17 24	22 06 37 16 52	7 07 05	16 23	22 07 31 16 02	7 07 52	15 52	22 08 04 15 54
8 05 25	18 31	23 05 48 17 56	8 06 13	17 22	23 06 39 16 50	8 07 07	16 21	23 07 32 16 01	8 07 53	15 52	23 08 05 15 55
9 05 26	18 28	24 05 50 17 54	9 06 15	17 20	24 06 40 16 48	9 07 08	16 20	24 07 34 16 00	9 07 54	15 52	24 08 05 15 55
10 05 28	18 26	25 05 52 17 52	10 06 16	17 18	25 06 42 16 46	10 07 10	16 18	25 07 35 16 00	10 07 55	15 52	25 08 05 15 56
11 05 29	18 24	26 05 53 17 49	11 06 18	17 16	26 06 44 16 44	11 07 12	16 17	26 07 37 15 59	11 07 56	15 51	26 08 06 15 57
12 05 31	18 22	27 05 55 17 47	12 06 20	17 13	27 06 46 16 42	12 07 14	16 15	27 07 38 15 58	12 07 57	15 51	27 08 06 15 58
13 05 32	18 19	28 05 57 17 45	13 06 21	17 11	28 06 47 16 41	13 07 15	16 14	28 07 40 15 57	13 07 58	15 51	28 08 06 15 58
14 05 34	18 17	29 05 58 17 42	14 06 23	17 09	29 06 49 16 39	14 07 17	16 12	29 07 41 15 56	14 07 59	15 51	29 08 06 15 59
15 05 36	18 15	30 06 00 17 40	15 06 25	17 07	30 06 51 16 37	15 07 19	16 11	30 07 43 15 56	15 08 00	15 52	30 08 06 16 00
					31 06 53 16 35						31 08 06 16 01

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2025 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	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 09 47	17 30	16 19 24 09 34	1 09 02	20 56	16 21 55 08 24	1 07 21	19 58	16 20 52 06 42	1 06 30	23 37	16 23 31 05 51
2 10 11	18 56	17 20 39 09 47	2 09 15	22 22	17 23 06 08 34	2 07 34	21 28	17 22 04 06 53	2 07 00	** ** 17	** ** 06 21
3 10 29	20 22	18 21 50 09 57	3 09 27	23 49	18 ** ** 08 45	3 07 48	22 59	18 23 18 07 06	3 07 43	01 03	18 00 36 07 03
4 10 43	21 47	19 23 00 10 07	4 09 42	** ** 19	00 19 09 00	4 08 05	** ** 19	** ** 07 23	4 08 44	02 11	19 01 30 08 01
5 10 55	23 11	20 ** ** 10 16	5 10 00	01 18	20 01 33 09 19	5 08 29	00 31	20 00 32 07 47	5 09 57	03 00	20 02 11 09 12
6 11 07	** ** 21	00 11 10 27	6 10 26	02 47	21 02 47 09 47	6 09 02	02 00	21 01 42 08 21	6 11 17	03 32	21 02 40 10 32
7 11 20	00 35	22 01 23 10 40	7 11 03	04 11	22 03 57 10 27	7 09 50	03 17	22 02 45 09 09	7 12 37	03 54	22 03 01 11 56
8 11 36	02 02	23 02 36 10 56	8 11 56	05 23	23 04 56 11 23	8 10 53	04 17	23 03 35 10 13	8 13 54	04 10	23 03 17 13 22
9 11 56	03 31	24 03 52 11 19	9 13 04	06 18	24 05 41 12 35	9 12 09	04 59	24 04 12 11 30	9 15 08	04 22	24 03 31 14 49
10 12 25	05 00	25 05 05 11 52	10 14 23	06 56	25 06 13 14 00	10 13 29	05 27	25 04 38 12 55	10 16 19	04 32	25 03 44 16 17
11 13 08	06 23	26 06 12 12 40	11 15 44	07 22	26 06 37 15 29	11 14 48	05 47	26 04 58 14 24	11 17 29	04 42	26 03 57 17 49
12 14 07	07 31	27 07 06 13 45	12 17 04	07 40	27 06 54 16 59	12 16 05	06 02	27 05 13 15 53	12 18 40	04 51	27 04 11 19 24
13 15 22	08 21	28 07 46 15 05	13 18 20	07 53	28 07 08 18 28	13 17 18	06 13	28 05 26 17 23	13 19 52	05 02	28 04 30 21 01
14 16 43	08 55	29 08 14 16 32	14 19 33	08 04		14 18 30	06 23	29 05 39 18 54	14 21 05	05 14	29 04 56 22 35
15 18 05	09 18	30 08 34 18 01	15 20 44	08 14		15 19 41	06 32	30 05 52 20 28	15 22 19	05 29	30 05 34 23 54
		31 08 49 19 29						31 06 09 22 03			

*** indicates that the phenomenon does not occur.

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2025 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	06 29	** ** 16	09 25	00 20	16 23 44 08 51	1	10 53	23 15	16 22	28 10 46	1	13 24	22 08	16 21 51 14 23	
2	07 40	00 53	17 00	10 07 02		2	12 05	23 25	17 22	41 12 10	2	14 38	22 28	17 22 33 15 47	
3	09 01	01 32	18 00	42 08 19		3	13 16	23 36	18 22	57 13 37	3	15 51	22 55	18 23 31 16 57	
4	10 23	01 59	19 01	05 09 40		4	14 27	23 48	19 23	19 15 07	4	16 59	23 33	19 ** ** 17 49	
5	11 42	02 17	20 01	23 11 03		5	15 40	** ** 20	23 52 16 36		5	17 58	** ** 20	00 46 18 24	
6	12 57	02 30	21 01	37 12 26		6	16 54	00 05	21 ** ** 17 59		6	18 43	00 27	21 02 10 18 48	
7	14 09	02 41	22 01	49 13 50		7	18 06	00 27	22 00 39 19 04		7	19 16	01 35	22 03 34 19 05	
8	15 20	02 51	23 02	02 15 17		8	19 12	00 58	23 01 45 19 51		8	19 40	02 54	23 04 56 19 18	
9	16 29	03 00	24 02	15 16 48		9	20 05	01 42	24 03 06 20 22		9	19 57	04 18	24 06 14 19 29	
10	17 40	03 10	25 02	31 18 23		10	20 45	02 42	25 04 32 20 44		10	20 11	05 43	25 07 29 19 39	
11	18 53	03 22	26 02	53 19 58		11	21 14	03 54	26 05 57 20 59		11	20 24	07 07	26 08 42 19 49	
12	20 07	03 37	27 03	25 21 27		12	22 09	03 50	27 05 34 22 22		12	20 35	08 32	27 09 54 20 00	
13	21 20	03 56	28 04	12 22 37		13	22 45	04 54	28 07 00 22 40		13	20 48	09 56	28 11 07 20 13	
14	22 28	04 24	29 05	17 23 26		14	23 10	06 08	29 08 22 22 54		14	21 03	11 23	29 12 21 20 30	
15	23 26	05 02	30 06	37 23 59		15	23 29	07 29	30 09 40 23 05		15	21 23	12 53	30 13 34 20 54	
			31	08 02	** **				31	12 11 21 54				31	14 45 21 27

*** indicates that the phenomenon does not occur.

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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



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Now in its fourth year, £430,000 has been awarded by Active Thames to 56 community and sports groups, promoting activity on the tidal Thames and inland waterways in London, Kent and Essex.

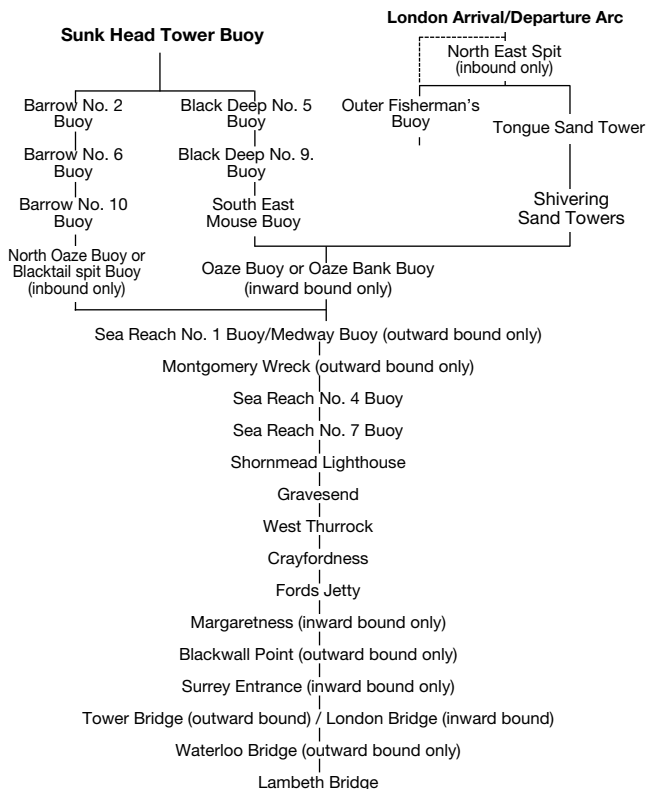
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www.activethames.co.uk



NOTES

REPORTING POINTS (WAYPOINTS)



For vessels using the inshore passages in the estuary:

North

Maplin Approach Buoy
|
Maplin Buoy

South

South East Margate Buoy
|
Spaniard Buoy

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:

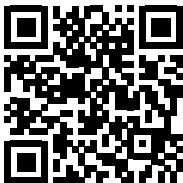
- Thames Barrier Navigation Control, for matters between Teddington to Crayfordness: +44 (0)203 260 7711.
- Port Control Centre, for matters east of Crayfordness to the Outer Limits: +44 (0)1474 562215.

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.
- Walshingham House, 35 Seething Ln, London EC3N 4AH.

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