

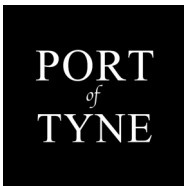


RIVER TYNE OFFICIAL

TIDE TABLES

2022





RIVER TYNE

TIDE TABLES

FOR THE YEAR 2022

Issued by the

PORT OF TYNE

Maritime House, Tyne Dock,

South Shields NE34 9PT

Tel: +44 (0)191 455 2671 Fax: +44 (0)191 455 4687

www.portoftyne.co.uk

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The Port of Tyne is responsible for the conservancy and navigation of the River Tyne. The river is navigable over a distance of 15 miles (24 km) and channel depths are advertised as far as Newcastle Swing Bridge, a distance of 10 miles (16 km).

The Port is accessible at all states of the tide. There are no length or beam restrictions for vessels in the entrance to the Port. With a controlled depth of 10.0 metres below Chart Datum in the lower reaches of the Port and 13.0 metres below Chart Datum at Tyne Bulk Terminal and 12.1 metres at Riverside Quay, ships of a considerable size can be accommodated within the Port.

No height restrictions exist in the lower harbour, but wires crossing the river at Jarrow restrict air draft above this point to 85.7 metres at Mean High Water Springs (MHWS).

PRINCIPAL CONTACTS

Alan Feast
Harbour Master
Harbour Master's Office,
Neville House, Bell Street,
North Shields NE30 1LJ
Tel: +44 (0)191 257 0407 Fax: +44 (0)191 258 3238

Tyne VTS (Vessel Traffic Services) - 24 hours
Email: tynevts@portoptyne.co.uk
Tel: +44 (0)191 257 2080 Fax: +44 (0)191 258 3238

Head Office,
Maritime House,
Tyne Dock,
South Shields NE34 9PT
Tel: +44 (0)191 455 2671 Fax: +44 (0)191 455 4687
Email: commercial@portoptyne.co.uk
Website: www.portoptyne.co.uk

Riverside Quay Office,
Tyne Dock,
South Shields NE33 5SP
Tel: +44 (0)191 455 2671 Fax: +44 (0)191 454 5502

International Passenger Terminal,
Coble Dene,
North Shields NE29 6EA
Tel: +44 (0)191 257 1373 Fax: +44 (0)191 296 0839

PARTICULARS OF RIVER AND DOCK BERTHS

The dredged depths in the channel and at the docks and quays are subject to silting and to amendment from time to time in line with variations in shipping requirements. Confirmation of all depths should be obtained from the Harbour Master, Bell Street, North Shields.

Tel: +44 (0)191 257 0407 Fax: +44 (0)191 258 3238

PORT OF TYNE OPERATED BERTHS

RIVERSIDE QUAY / TYNE CONTAINER / BULK TERMINAL

Length – 875m

Beam – 40m

Depth – 12.1m @ Chart Datum (13.0m @ Bulk Terminal)

5 Harbour Mobile Cranes (up to 144t SWL)

2 Portal Harbour Cranes (up to 100t SWL)

1 Container Gantry Crane (up to 40t at 35m reach)

PARTICULARS OF BERTHS

(continued)

INTERNATIONAL PASSENGER TERMINAL

RO/RO NO.3

Depth – 7.1m @ Chart Datum.

Dual Linkspan Bridge for stern loading and discharging.

Elevated passenger walkway with automated baggage conveyor.

RO/RO NO.4

Depth – 7.5m @ Chart Datum.

Linkspan Bridge for stern loading and discharging.

Elevated passenger walkway with automated baggage conveyor.

NORTHUMBRIAN QUAY

Cruise & Lay-by Berth 335m long Depth – 9.0m @ Chart Datum

WHITEHILL POINT

105m between dolphins, vessels up to 215m long.

Depth of Water – 8.6m @ Chart Datum.

TYNE CAR TERMINAL

3 Berths with pontoons, including 1 Heavy Duty pontoon.

No. 1 Berth 230m x 50m 10.0m @ Chart Datum

No. 2 Berth 160m x 40m 7.0m @ Chart Datum

No. 3 Berth 110m x 34m 7.0m @ Chart Datum

Fixed Platform Quay 95m x 30m, plus pontoons allow vessels stern; quarter; and side; ramps to be worked.

PARTICULARS OF BERTHS

(continued)

PRIVATELY OPERATED BERTHS

BULK LIQUID INSTALLATIONS

Tyne Tanker Berth, North Shields (Exolum Tyneside Ltd)

Berth – 200m long

Ocean Tanker Berth, North Shields (Exolum Tyneside Ltd)

Berth – 200m long

NORTH SHIELDS FISH QUAY (North Shields Fish Quay Company)

995m long

OFFSHORE TECHNOLOGY PARK, WALKER (Shepherd Offshore)

Berth – 710m long

NEPTUNE QUAY - WALLSEND (Shepherd Offshore)

Berth – 450m long

AGGREGATE BERTH

Jarrow – (CEMEX UK)

Berth – 198m long.

SWAN HUNTERS - WALLSEND (Shepherd Offshore)

WD CLOSE - WALLSEND

A&P TYNE

The individual berth operators should be contacted for depths alongside private berths.

NAVIGATION

Tyne Vessel Traffic Service (Information Service)

A VHF Radio Service (24 hour coverage) is provided for use by vessels approaching and within the Port.

The call sign is “Tyne VTS” on VHF Channel 12.

Tel: +44 (0)191 257 2080.

Fax: +44 (0)191 258 3238.

Pilotage

In accordance with the Pilotage Act 1987 the Port of Tyne is the Pilotage Authority for the Tyne Pilotage District.

Pilotage is compulsory, with certain exceptions, details of which and requests for Pilotage services can be obtained from Tyne VTS.

Towage and Port Services

Towage services in the Port area are provided by Svitzer Marine Limited and SMS Towage Ltd.

Full information regarding services and rates may be obtained from:-

Svitzer Marine Limited

Tel: +44 (0)1642 258 300

SMS Towage Limited

Tel: +44 (0)1482 350 999

Mooring Services

Mooring services for vessels using the Port are supplied by Foyboat or Mooring men licensed by the Port of Tyne.

Tyne Foyboats

Tel: +44 (0)191 456 2070

Fax: +44 (0)191 455 6230

Bunkering

Bunkering services are available by pipeline through Inter Terminals/Certas Energy and road tanker.

A piped fuel service is available at the Fish Quay for fishing vessels and St Peters Basin and Royal Quays Marina for small craft and yachts.

Swinging Area

Jarrow Slake – 360m diameter.

Depth of Water – 10.0m @ Chart Datum.

Shiprepairing

A drydock 259m long and 44m wide and several slipways are available in the Port.

TIDAL CONSTANTS 2022

The approximate constants relative to the times of the tides for the River Tyne are:

Port		Hrs.	Mins.
Aberdeen	-	02	07
Belfast	-	04	29
Bristol	+	03	43
Cardiff	+	03	28
Dover	-	04	36
Felixstowe	-	04	10
Grangemouth	-	00	30
Grimsby	+	02	08
Holy Island	-	00	41
Liverpool	-	04	25
London Bridge	-	01	55
Newlyn	+	01	43
*Southampton	-	04	44
Greenock	-	03	17
Tilbury	-	01	07
Teesport	+	00	21
Bergen	-	04	27
Esbjerg	-	00	56
Hamburg	+	00	54
La Havre	-	04	53
Rotterdam	+	01	04

*Double high water occurs at Southampton.
Constant calculated on first high water.

NOTES

1. Tidal predictions for the River Tyne have been computed by the National Oceanography Centre: Copyright reserved.
2. **The time throughout is Greenwich Mean Time. To arrive at British Summer Time add one hour. British Summer Time begins 27th March 2022 and ends 30th October 2022.**
3. Zero mark on the Port's Tide Gauges corresponds with the datum used in the Institute of Oceanographic Sciences Tide Tables and Admiralty Charts for the River Tyne, and is the level of 2.6m. below Ordnance Datum (Newlyn), i.e. Lowest Astronomical Tide. The heights shown should be added to the depths on the soundings plans and the charts unless they are preceded by a minus sign when they should be subtracted.
4. **Particulars of Dredged Depths**
The river channel is dredged to the following depths below Chart Datum: from the sea to Jarrow Quay Corner (East end) 10.0m. Thence to Jarrow Staith (West end) 6.0m. Thence to Bill Point 5.2m. West of Newcastle Bridges depths are not maintained.

The dredged depths in the channel and in berths are subject to silting and to amendment from time to time in line with variations in shipping requirements. Confirmation of all depths should be obtained from the Harbour Master, Bell Street, North Shields.

Tel: +44 (0)191 257 0407. Fax +44 (0)191 258 3238.

5.

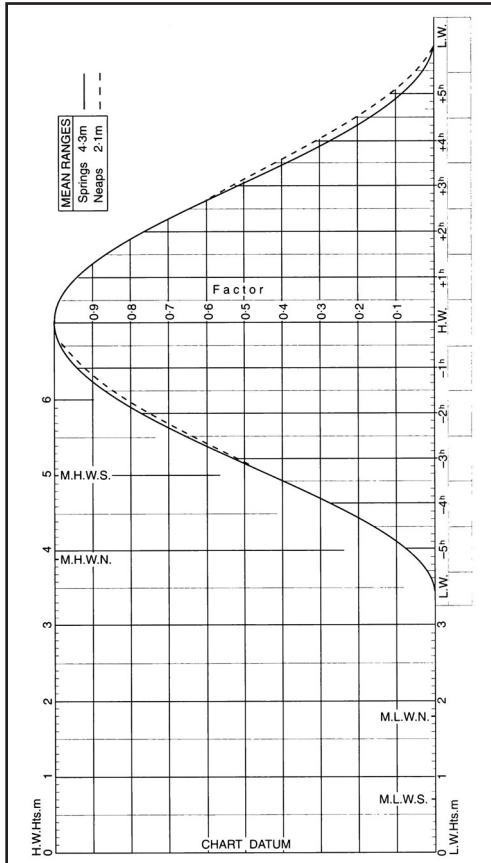
MHWS	5.0m.	Mean Spring Range	4.3m.
MHWN	3.9m.	Mean Neap Range	2.1m.
MLWN	1.8m.		
MLWS	0.7m.		

Every care has been exercised to ensure accuracy but the Port does not accept responsibility for any inaccuracy on the part of themselves or others.

RIVER TYNE (NORTH SHIELDS)

MEAN SPRING AND NEAP CURVES

Springs occur 2 days after New and Full Moon.



ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

JANUARY 2022

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

Time	m	Time	m	Time	m	Time	m
1 0130	4.93	9 0218	1.21	17 0309	4.57	25 0210	1.25
0801	1.05	0830	4.33	0916	1.50	0820	4.36
SA 1401	4.93	SU 1423	1.89	M 1522	4.76	TU 1415	1.74
2026	1.11	☾ 2031	4.57	○ 2143	1.22	☾ 2027	4.59
2 0227	5.11	10 0312	1.49	18 0345	4.66	26 0306	1.40
0854	0.96	0927	4.13	0951	1.41	0919	4.25
SU 1450	5.11	M 1521	2.07	TU 1554	4.85	W 1518	1.87
● 2120	0.84	2133	4.35	2218	1.09	2133	4.46
3 0320	5.23	11 0412	1.72	19 0420	4.72	27 0413	1.53
0944	0.93	1029	4.02	1024	1.34	1027	4.20
M 1536	5.24	TU 1630	2.17	W 1627	4.91	TH 1637	1.90
2212	0.65	2240	4.19	2253	1.00	2251	4.39
4 0412	5.27	12 0518	1.86	20 0454	4.75	28 0530	1.58
1031	0.97	1134	4.02	1057	1.31	1141	4.27
TU 1623	5.29	W 1744	2.14	TH 1659	4.94	F 1802	1.76
2302	0.56	2350	4.15	2329	0.95		
5 0504	5.20	13 0621	1.88	21 0529	4.74	29 0012	4.47
1118	1.07	1234	4.13	1131	1.32	0646	1.50
W 1709	5.27	TH 1850	1.99	F 1732	4.94	SA 1251	4.45
2351	0.58			0006	0.95	1918	1.47
6 0554	5.04	14 0053	4.21	22 0606	4.68	30 0125	4.67
1203	1.24	0716	1.82	1206	1.38	0751	1.34
TH 1757	5.18	F 1326	4.30	SA 1808	4.90	SU 1350	4.71
		1943	1.79			2022	1.12
7 0039	0.72	15 0145	4.32	23 0044	1.01	31 0226	4.90
0645	4.82	0801	1.72	0645	4.59	0848	1.17
F 1247	1.44	SA 1409	4.48	SU 1242	1.47	M 1442	4.96
1845	5.01	2027	1.58	1848	4.82	2117	0.78
8 0127	0.94	16 0230	4.45	24 0124	1.11		
0736	4.57	0840	1.61	0729	4.48		
SA 1333	1.67	SU 1448	4.63	M 1324	1.60		
1936	4.80	2107	1.39	1933	4.72		

ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

FEBRUARY 2022

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

Time	m	Time	m	Time	m	Time	m
1 0318	5.08	9 0300	1.80	17 0401	4.79	25 0341	1.71
0936	1.03	0921	3.94	1008	1.16	0954	4.07
TU 1528	5.17	W 1519	2.11	TH 1606	4.99	F 1613	1.86
● 2206	0.53	2139	4.03	2235	0.73	2238	4.19
2 0407	5.17	10 0404	2.07	18 0433	4.87	26 0512	1.84
1021	0.95	1029	3.82	1040	1.05	1121	4.07
W 1612	5.30	TH 1643	2.23	F 1637	5.08	SA 1756	1.74
2253	0.40	2300	3.87	2309	0.64		
3 0452	5.15	11 0527	2.18	19 0506	4.90	27 0013	4.26
1103	0.94	1148	3.85	1112	1.01	0642	1.74
TH 1654	5.34	F 1813	2.14	SA 1710	5.13	SU 1241	4.28
2336	0.41			2344	0.63	1918	1.40
4 0536	5.04	12 0024	3.90	20 0541	4.87	28 0128	4.52
1142	1.02	0646	2.10	1145	1.04	0748	1.50
F 1736	5.28	SA 1256	4.03	SU 1745	5.11	M 1343	4.59
		1921	1.90			2019	1.00
5 0016	0.56	13 0127	4.08	21 0019	0.70		
0618	4.85	0742	1.92	0618	4.78		
SA 1219	1.17	SU 1348	4.25	M 1220	1.14		
1817	5.13	2010	1.62	1823	5.03		
6 0054	0.82	14 0215	4.29	22 0057	0.87		
0659	4.62	0825	1.71	0658	4.64		
SU 1255	1.37	M 1428	4.48	TU 1257	1.29		
1900	4.90	2051	1.35	1907	4.87		
7 0132	1.13	15 0254	4.49	23 0139	1.11		
0742	4.37	0902	1.51	0745	4.45		
M 1333	1.61	TU 1503	4.68	W 1344	1.49		
1945	4.62	2127	1.11	● 2000	4.63		
8 0212	1.47	16 0328	4.66	24 0230	1.41		
0827	4.14	0936	1.32	0842	4.24		
TU 1419	1.87	W 1536	4.85	TH 1446	1.72		
○ 2036	4.31	○ 2201	0.90	2109	4.36		

ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

MARCH 2022

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

Time	m	Time	m	Time	m	Time	m
1 0225	4.79	9 0121	1.47	17 0302	4.68	25 0209	1.55
0840	1.24	0735	4.21	0912	1.21	0818	4.23
TU 1433	4.89	W 1333	1.67	TH 1508	4.86	F 1436	1.60
2110	0.66	1951	4.26	2135	0.71	☉ 2104	4.21
2 0312	4.99	10 0201	1.82	18 0334	4.87	26 0326	1.90
0925	1.02	0822	3.97	0944	0.99	0936	4.02
W 1515	5.13	TH 1424	1.96	F 1539	5.05	SA 1612	1.73
● 2154	0.43	☾ 2050	3.93	○ 2209	0.52	2242	4.07
3 0354	5.09	11 0257	2.15	19 0406	4.99	27 0509	2.01
1005	0.87	0924	3.77	1017	0.84	1109	4.02
TH 1554	5.29	F 1542	2.18	SA 1611	5.19	SU 1757	1.56
2235	0.33	2209	3.71	2244	0.41		
4 0432	5.09	12 0427	2.36	20 0439	5.05	28 0016	4.21
1042	0.81	1048	3.69	1050	0.77	0636	1.83
F 1633	5.33	SA 1730	2.17	SU 1645	5.26	M 1231	4.26
2312	0.38	2348	3.71	2319	0.43	1912	1.21
5 0509	5.01	13 0612	2.29	21 0514	5.03	29 0124	4.49
1116	0.85	1218	3.83	1124	0.79	0737	1.54
SA 1710	5.27	SU 1851	1.92	M 1721	5.23	TU 1330	4.58
2345	0.55			2354	0.56	2008	0.87
6 0544	4.86	14 0103	3.93	22 0551	4.92	30 0214	4.73
1148	0.97	0718	2.03	1200	0.89	0824	1.26
SU 1747	5.11	M 1318	4.09	TU 1803	5.10	W 1417	4.86
		1944	1.59			2054	0.61
7 0018	0.81	15 0151	4.20	23 0032	0.81	31 0255	4.90
0619	4.66	0802	1.74	0632	4.75	0905	1.03
M 1221	1.16	TU 1400	4.36	W 1239	1.08	TH 1456	5.07
1824	4.88	2024	1.27	1850	4.86	2133	0.47
8 0048	1.12	16 0228	4.46	24 0115	1.15		
0655	4.45	0839	1.46	0720	4.50		
TU 1254	1.40	W 1436	4.62	TH 1329	1.33		
1905	4.59	2100	0.97	1948	4.54		

BST begins 27/3/22 - To arrive at British Summertime add 1 Hour

ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

APRIL 2022

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

Time	m	Time	m	Time	m	Time	m
1 0332	4.98	9 0209	2.15	17 0335	5.07	25 0459	2.01
0942	0.86	0835	3.84	0950	0.75	1055	4.14
F 1533	5.19	SA 1457	2.02	SU 1542	5.24	M 1746	1.33
● 2209	0.43	☉ 2127	3.69	2215	0.36		
2 0406	5.00	10 0330	2.38	18 0411	5.14	26 0003	4.25
1015	0.79	0952	3.70	1026	0.66	0616	1.82
SA 1608	5.21	SU 1636	2.07	M 1621	5.31	TU 1210	4.34
2242	0.51	2257	3.66	2254	0.42	1854	1.08
3 0439	4.95	11 0521	2.35	19 0448	5.11	27 0104	4.46
1048	0.80	1123	3.76	1104	0.66	0713	1.56
SU 1643	5.14	M 1805	1.86	TU 1703	5.25	W 1307	4.58
2312	0.68			2332	0.60	1945	0.87
4 0511	4.84	12 0019	3.86	20 0528	5.00	28 0151	4.64
1120	0.90	0636	2.09	1145	0.76	0800	1.32
M 1719	4.98	TU 1233	4.00	W 1751	5.07	TH 1353	4.78
2341	0.92	1903	1.54			2028	0.74
5 0543	4.70	13 0112	4.15	21 0014	0.91	29 0230	4.77
1151	1.07	0724	1.77	0613	4.81	0839	1.12
TU 1755	4.76	W 1320	4.29	TH 1232	0.94	F 1432	4.92
		1946	1.21	1845	4.79	2106	0.68
6 0010	1.20	14 0151	4.44	22 0101	1.29	30 0305	4.85
0616	4.52	0803	1.46	0704	4.56	0915	0.97
W 1224	1.28	TH 1357	4.59	F 1328	1.19	SA 1509	5.00
1835	4.50	2025	0.89	1949	4.46	● 2139	0.69
7 0041	1.51	15 0227	4.70	23 0201	1.69		
0653	4.31	0839	1.17	0807	4.29		
TH 1302	1.53	F 1432	4.86	SA 1442	1.42		
1920	4.20	2102	0.63	☉ 2109	4.18		
8 0118	1.83	16 0301	4.92	24 0323	1.98		
0737	4.07	0914	0.93	0927	4.12		
F 1350	1.80	SA 1506	5.09	SU 1616	1.49		
2015	3.91	☉ 2139	0.44	2241	4.11		

To arrive at British Summertime add 1 Hour

ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

MAY 2022

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

Time	m	Time	m	Time	m	Time	m
1 0338	4.88	9 0246	2.26	17 0345	5.15	25 0540	1.83
SU 0949	0.89	M 0906	3.86	TU 1006	0.64	W 1138	4.40
1544	5.00	M 1545	1.86	TU 1604	5.27	W 1821	1.14
2210	0.77	☉ 2205	3.76	2233	0.56		
2 0409	4.87	10 0416	2.28	18 0427	5.14	26 0031	4.36
1023	0.89	10 1022	3.87	18 1051	0.60	26 0639	1.66
M 1620	4.93	TU 1705	1.74	W 1653	5.20	TH 1236	4.51
2240	0.91	2319	3.89	2317	0.76	1914	1.07
3 0441	4.81	11 0536	2.09	19 0512	5.05	27 0120	4.48
1056	0.96	11 1132	4.03	19 1139	0.66	27 0728	1.47
TU 1656	4.80	W 1809	1.49	TH 1746	5.02	F 1324	4.62
2309	1.10					1957	1.03
4 0513	4.71	12 0019	4.14	20 0004	1.05	28 0201	4.59
1128	1.08	12 0633	1.81	20 0600	4.89	28 0811	1.30
W 1733	4.62	TH 1227	4.29	F 1232	0.80	SA 1407	4.70
2339	1.32	1900	1.19	1845	4.77	2035	1.02
5 0546	4.57	13 0106	4.42	21 0056	1.38	29 0237	4.69
1203	1.24	13 0719	1.51	21 0655	4.69	29 0850	1.16
TH 1813	4.42	F 1313	4.57	SA 1332	0.99	SU 1446	4.75
		1944	0.91	1951	4.50	2109	1.04
6 0012	1.56	14 0148	4.68	22 0157	1.68	30 0312	4.76
0623	4.40	14 0801	1.22	22 0758	4.48	30 0927	1.07
F 1241	1.43	SA 1354	4.85	SU 1442	1.16	M 1524	4.76
1857	4.19	2026	0.68	☉ 2103	4.29	● 2142	1.08
7 0050	1.82	15 0227	4.90	23 0311	1.89	31 0345	4.78
0706	4.20	15 0842	0.97	23 0912	4.34	31 1003	1.03
SA 1328	1.63	SU 1436	5.07	M 1601	1.24	TU 1602	4.72
1949	3.97	2108	0.52	2221	4.21	2214	1.17
8 01:39	2.07	16 03:05	5.06	24 04:30	1.93		
07:59	4.00	16 09:24	0.76	24 10:28	4.32		
SU 14:27	1.80	M 15:18	5.22	TU 17:17	1.21		
20:51	3.80	☉ 21:50	0.48	23:32	4.25		

To arrive at British Summertime add 1 Hour

ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

JUNE 2022

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

Time	m	Time	m	Time	m	Time	m
1 0418	4.77	9 0427	2.02	17 0500	5.13	25 0044	4.28
1037	1.05	1032	4.17	1137	0.52	0655	1.69
W 1639	4.64	TH 1710	1.43	F 1743	5.05	SA 1256	4.39
2245	1.28	2322	4.16	2357	1.08	1924	1.43
2 0451	4.72	10 0533	1.84	18 0551	5.05	26 0131	4.40
1112	1.10	1133	4.34	1230	0.59	0745	1.53
TH 1717	4.54	F 1809	1.24	SA 1840	4.85	SU 1345	4.45
2318	1.41					2007	1.41
3 0524	4.63	11 0018	4.38	19 0048	1.30	27 0213	4.53
1148	1.19	0631	1.61	0644	4.91	0830	1.38
F 1756	4.42	SA 1229	4.56	SU 1327	0.74	M 1430	4.51
2351	1.56	1903	1.04	1939	4.63	2045	1.38
4 0601	4.52	12 0109	4.61	20 0142	1.53	28 0251	4.64
1227	1.30	0724	1.34	0742	4.75	0909	1.25
SA 1838	4.28	SU 1321	4.79	M 1426	0.93	TU 1511	4.57
		1954	0.86	2041	4.42	2121	1.36
5 0030	1.72	13 0155	4.82	21 0241	1.72	29 0326	4.71
0642	4.38	0815	1.07	0844	4.58	0947	1.15
SU 1311	1.42	M 1412	4.99	TU 1529	1.12	W 1549	4.60
1924	4.13	2042	0.75	2145	4.26	2154	1.36
6 0115	1.89	14 0241	4.99	22 0346	1.84	30 0400	4.76
0729	4.25	0904	0.83	0951	4.45	1023	1.09
M 1401	1.53	TU 1503	5.14	W 1634	1.28	TH 1626	4.60
2018	4.01	2130	0.71	2248	4.18	2228	1.37
7 0210	2.02	15 0326	5.11	23 0453	1.88		
0824	4.14	0954	0.64	1057	4.37		
TU 1500	1.59	W 1555	5.20	TH 1738	1.38		
2117	3.96	2219	0.76	2349	4.20		
8 0316	2.08	16 0412	5.16	24 0557	1.82		
0927	4.10	1045	0.53	1200	4.36		
W 1606	1.56	TH 1648	5.17	F 1835	1.42		
2221	4.01	2307	0.89				

To arrive at British Summertime add 1 Hour

ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

JULY 2022

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

Time	m	Time	m	Time	m	Time	m
1 0433	4.77	9 0438	1.86	17 0536	5.26	25 0103	4.22
F 1058	1.06	SA 1045	4.38	SU 1219	0.40	M 0725	1.74
2301	1.40	2335	4.31	1824	4.96	1329	4.22
						1945	1.76
2 0506	4.75	10 0549	1.71	18 0029	1.14	26 0151	4.39
1133	1.06	1154	4.49	0624	5.15	0814	1.54
SA 1739	4.52	SU 1829	1.28	M 1306	0.58	TU 1418	4.36
2336	1.45			1914	4.74	2027	1.65
3 0542	4.70	11 0036	4.48	19 0114	1.34	27 0233	4.56
1211	1.10	0656	1.47	0714	4.97	0855	1.34
SU 1817	4.45	M 1300	4.66	TU 1354	0.85	W 1459	4.49
		1930	1.15	2006	4.50	2105	1.53
4 0012	1.53	12 0133	4.70	20 0201	1.56	28 0309	4.70
0619	4.63	0757	1.17	0807	4.74	0933	1.17
M 1251	1.17	TU 1400	4.87	W 1445	1.16	TH 1536	4.59
1857	4.36	2027	1.03	2059	4.27	2139	1.42
5 0051	1.63	13 0224	4.91	21 0254	1.77	29 0342	4.80
0700	4.54	0855	0.87	0905	4.49	1008	1.03
TU 1333	1.25	W 1457	5.06	TH 1540	1.47	F 1610	4.67
1942	4.26	2120	0.93	2157	4.11	2212	1.33
6 0136	1.74	14 0313	5.09	22 0357	1.94	30 0415	4.88
0745	4.45	0948	0.60	1009	4.26	1042	0.93
W 1421	1.34	TH 1551	5.18	F 1643	1.71	SA 1643	4.71
2033	4.19	2209	0.89	2300	4.04	2245	1.28
7 0227	1.84	15 0401	5.23	23 0511	2.00	31 0447	4.92
0838	4.38	1040	0.41	1120	4.13	1116	0.87
TH 1515	1.40	F 1642	5.20	SA 1751	1.83	SU 1717	4.71
2130	4.16	2257	0.90			2318	1.26
8 0329	1.89	16 0448	5.29	24 0005	4.08		
0939	4.34	1130	0.34	0624	1.92		
F 1617	1.42	SA 1733	5.12	SU 1230	4.13		
2231	4.20	2344	0.99	1854	1.83		

To arrive at British Summertime add 1 Hour

ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

AUGUST 2022

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

Time	m	Time	m	Time	m	Time	m
1 0519	4.92	9 0015	4.35	17 0039	1.20	25 0212	4.52
1151	0.87	0644	1.56	0640	5.08	0837	1.34
M 1751	4.67	TU 1254	4.53	W 1315	0.92	TH 1442	4.50
2351	1.30	1920	1.45	1922	4.56	2048	1.59
2 0552	4.89	10 0120	4.61	18 0119	1.44	26 0248	4.73
1226	0.92	0753	1.19	0727	4.78	0912	1.11
TU 1827	4.60	W 1400	4.80	TH 1354	1.30	F 1515	4.67
		2020	1.25	2008	4.31	2121	1.40
3 0025	1.38	11 0215	4.89	19 0203	1.72	27 0321	4.89
0629	4.82	0851	0.80	0818	4.45	0946	0.92
W 1303	1.03	TH 1454	5.04	F 1440	1.69	SA 1547	4.80
1906	4.51	2112	1.05	2101	4.09	2152	1.24
4 0103	1.50	12 0303	5.16	20 0301	1.98	28 0351	5.02
0709	4.72	0942	0.48	0921	4.13	1018	0.77
TH 1344	1.17	F 1543	5.20	SA 1540	2.02	SU 1618	4.89
1951	4.40	2158	0.91	2205	3.94	2224	1.12
5 0147	1.64	13 0348	5.35	21 0421	2.15	29 0421	5.10
0758	4.59	1030	0.28	1039	3.92	1051	0.68
F 1433	1.34	SA 1630	5.25	SU 1702	2.20	M 1649	4.92
2045	4.29	2242	0.85	2322	3.93	2254	1.08
6 0243	1.78	14 0430	5.45	22 05:54	2.10	30 0451	5.14
0858	4.44	1114	0.23	12:05	3.92	1124	0.68
SA 1533	1.52	SU 1714	5.19	M 18:27	2.17	TU 1721	4.91
2148	4.20	2322	0.88			2326	1.10
7 0356	1.87	15 0514	5.43	23 0035	4.07	31 0524	5.12
1012	4.33	1156	0.33	0706	1.88	1157	0.76
SU 1648	1.63	M 1757	5.03	TU 1313	4.09	W 1756	4.84
2301	4.21			1927	2.01	2359	1.18
8 0521	1.81	16 0002	1.00	24 0130	4.30		
1135	4.35	0557	5.30	0757	1.61		
M 1808	1.60	TU 1236	0.58	W 1403	4.30		
		1839	4.81	2011	1.80		

To arrive at British Summertime add 1 Hour

ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

SEPTEMBER 2022

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

Time	m	Time	m	Time	m	Time	m
1 0600	5.04	9 0204	4.96	17 0121	1.69	25 0251	4.96
1232	0.92	0842	0.69	0737	4.37	0917	0.84
TH 1833	4.72	F 1446	5.08	SA 1345	1.87	SU 1518	4.93
		2058	1.09	☉ 2006	4.14	● 2125	1.17
2 0034	1.32	10 0248	5.25	18 0212	1.98	26 0321	5.12
0640	4.89	0928	0.41	0837	4.03	0949	0.67
F 1310	1.15	SA 1529	5.23	SU 1439	2.24	M 1548	5.05
1916	4.56	☉ 2140	0.91	2109	3.93	2157	1.02
3 0117	1.51	11 0329	5.44	19 0331	2.21	27 0351	5.24
0730	4.67	1010	0.27	0957	3.80	1022	0.59
SA 1357	1.44	SU 1609	5.27	M 1608	2.47	TU 1618	5.11
☉ 2009	4.36	2218	0.81	2231	3.85	2228	0.96
4 0213	1.73	12 0408	5.52	20 0518	2.20	28 0423	5.29
0833	4.41	1049	0.29	1135	3.80	1055	0.60
SU 1501	1.75	M 1646	5.20	TU 1756	2.41	W 1651	5.10
2116	4.18	2256	0.83			2300	0.97
5 0333	1.90	13 0447	5.47	21 0000	3.97	29 0457	5.27
0957	4.21	1126	0.46	0639	1.95	1129	0.73
M 1629	1.94	TU 1724	5.06	W 1250	4.02	TH 1726	5.03
2240	4.13	2331	0.94	1903	2.17	2335	1.06
6 0515	1.83	14 0526	5.31	22 0101	4.23	30 0536	5.15
1136	4.24	1200	0.74	0730	1.63	1204	0.95
TU 1803	1.88	W 1800	4.86	TH 1338	4.29	F 1804	4.88
				1946	1.88		
7 0005	4.30	15 0006	1.14	23 0144	4.50		
0644	1.50	0606	5.05	0809	1.33		
W 1257	4.51	TH 1233	1.09	F 1415	4.54		
1916	1.64	1838	4.63	2022	1.61		
8 0112	4.62	16 0041	1.39	24 0219	4.75		
0749	1.08	0648	4.73	0844	1.06		
TH 1357	4.83	F 1306	1.48	SA 1447	4.76		
2012	1.35	1918	4.39	2054	1.66		

To arrive at British Summertime add 1 Hour

ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

OCTOBER 2022

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

Time	m	Time	m	Time	m	Time	m
1 0103	1.21	9 0229	5.26	17 0138	1.92	25 0248	5.15
0621	4.93	0907	0.50	0803	4.02	0917	0.70
SA 1244	1.27	SU 1507	5.18	M 1351	2.32	TU 1515	5.13
1849	4.66	○ 2116	0.97	● 2019	4.02	● 2128	1.02
2 0100	1.44	10 0306	5.41	18 0247	2.14	26 0321	5.28
0716	4.64	0945	0.45	0915	3.80	0952	0.63
SU 1335	1.65	M 1542	5.21	TU 1511	2.56	W 1548	5.22
1945	4.41	2153	0.87	2137	3.88	2203	0.92
3 0203	1.69	11 0344	5.44	19 0427	2.18	27 0357	5.35
0827	4.33	1020	0.53	1046	3.78	1027	0.67
M 1446	2.01	TU 1617	5.17	W 1705	2.54	TH 1624	5.22
● 2057	4.19	2228	0.88	2306	3.94	2239	0.90
4 0333	1.84	12 0421	5.36	20 0553	1.98	28 0437	5.31
1002	4.15	1053	0.72	1206	3.98	1105	0.82
TU 1626	2.17	W 1651	5.06	TH 1821	2.29	F 1701	5.14
2229	4.15	2302	0.98			2319	0.97
5 0519	1.71	13 0459	5.18	21 0016	4.17	29 0522	5.16
1140	4.27	1124	0.99	0648	1.68	1145	1.09
W 1800	2.01	TH 1724	4.91	F 1258	4.25	SA 1744	4.98
2355	4.37	2336	1.16	1908	1.98		
6 0639	1.34	14 0537	4.93	22 0103	4.44	30 0004	1.12
1253	4.57	1154	1.31	0730	1.37	0614	4.91
TH 1905	1.71	F 1759	4.71	SA 1337	4.53	SU 1230	1.43
				1946	1.68	1833	4.76
7 0059	4.70	15 0010	1.39	23 0142	4.71	31 0058	1.33
0738	0.97	0618	4.64	0807	1.10	0715	4.61
F 1346	4.86	SA 1224	1.64	SU 1411	4.78	M 1326	1.81
1955	1.41	1836	4.50	2021	1.41	1932	4.51
8 0148	5.02	16 0049	1.65	24 0215	4.95		
0825	0.67	0706	4.32	0842	0.86		
SA 1429	5.06	SU 1301	1.99	M 1443	4.98		
2038	1.15	1921	4.25	2054	1.18		

BST ends 30/10/22 To arrive at British Summertime add 1 Hour

ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

NOVEMBER 2022

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

Time	m	Time	m	Time	m	Time	m
1 0206	1.55	9 0322	5.21	17 0326	2.03	25 0340	5.30
0832	4.34	0951	0.89	0946	3.86	1006	0.82
TU 1442	2.11	W 1549	5.08	TH 1550	2.50	F 1603	5.24
☉ 2047	4.32	2204	1.02	2200	4.01	2227	0.85
2 0336	1.63	10 0400	5.13	18 0446	1.94	26 0427	5.27
1002	4.23	1022	1.05	1100	3.96	1050	0.96
W 1617	2.20	TH 1622	5.02	F 1714	2.35	SA 1645	5.20
2215	4.30	2239	1.09	2312	4.13	2314	0.86
3 0508	1.49	11 0438	4.98	19 0551	1.73	27 0518	5.14
1127	4.35	1052	1.25	1202	4.17	1135	1.19
TH 1739	2.03	F 1655	4.92	SA 1814	2.10	SU 1732	5.08
2334	4.48	2314	1.21				
4 0620	1.24	12 0517	4.79	20 0009	4.35	28 0005	0.95
1233	4.58	1123	1.49	0641	1.47	0614	4.93
F 1842	1.77	SA 1729	4.77	SU 1249	4.43	M 1225	1.48
		2349	1.38	1900	1.82	1823	4.91
5 0036	4.74	13 0557	4.57	21 0055	4.60	29 0102	1.09
0715	1.00	1154	1.73	0724	1.22	0716	4.68
SA 1324	4.78	SU 1806	4.60	M 1330	4.69	TU 1323	1.76
1930	1.51			1942	1.54	1922	4.71
6 0124	4.96	14 0027	1.57	22 0136	4.85	30 0207	1.25
0801	0.85	0642	4.33	0806	1.00	0827	4.46
SU 1405	4.94	M 1231	1.99	TU 1407	4.92	W 1430	1.99
2013	1.29	1848	4.40	2021	1.29	☉ 2032	4.56
7 0206	5.12	15 0114	1.77	23 0216	5.06		
0841	0.78	0733	4.10	0845	0.85		
M 1442	5.03	TU 1318	2.24	W 1445	5.09		
2052	1.12	1940	4.20	● 2102	1.08		
8 0245	5.21	16 0212	1.95	24 0257	5.22		
0917	0.80	0835	3.92	0925	0.79		
TU 1516	5.08	W 1422	2.44	TH 1522	5.21		
☉ 2129	1.03	☉ 2045	4.04	2143	0.93		

ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

DECEMBER 2022

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

Time	m	Time	m	Time	m	Time	m
1 0322	1.35	9 0347	4.86	17 0337	1.79	25 0424	5.24
0942	4.34	0959	1.33	0952	4.01	1042	1.01
TH 1548	2.08	F 1603	4.93	SA 1553	2.27	SU 1635	5.26
2148	4.50	2224	1.18	2202	4.20	2312	0.64
2 0439	1.35	10 0425	4.79	18 0442	1.73	26 0516	5.18
1056	4.35	1031	1.43	1055	4.10	1130	1.13
F 1702	2.03	SA 1636	4.89	SU 1703	2.16	M 1723	5.23
2301	4.54	2259	1.22	2306	4.29		
3 0547	1.30	11 0503	4.69	19 0544	1.59	27 0004	0.64
1200	4.44	1103	1.56	1154	4.28	0610	5.03
SA 1806	1.87	SU 1709	4.82	M 1806	1.96	TU 1219	1.31
		2335	1.30			1813	5.14
4 0004	4.64	12 0542	4.56	20 0005	4.46	28 0057	0.74
0645	1.24	1136	1.69	0640	1.41	0706	4.82
SU 1253	4.57	M 1745	4.71	TU 1247	4.51	W 1309	1.51
1901	1.69			1902	1.70	1907	4.99
5 0058	4.75	13 0012	1.40	21 0100	4.67	29 0153	0.92
0733	1.20	0621	4.42	0731	1.23	0805	4.59
M 1339	4.70	TU 1212	1.83	W 1335	4.74	TH 1404	1.72
1948	1.50	1824	4.58	1953	1.43	2006	4.81
6 0145	4.83	14 0054	1.53	22 0151	4.89	30 0252	1.14
0815	1.19	0706	4.26	0820	1.08	0907	4.39
TU 1418	4.81	W 1253	1.99	TH 1420	4.94	F 1505	1.89
2031	1.34	1908	4.43	2042	1.15	☉ 2111	4.63
7 0227	4.88	15 0141	1.65	23 0242	5.08	31 0356	1.35
0852	1.21	0755	4.12	0908	0.99	1012	4.25
W 1454	4.89	TH 1342	2.14	F 1504	5.11	SA 1612	1.99
2111	1.23	1959	4.29	● 2132	0.91	2219	4.49
8 0308	4.89	16 0235	1.75	24 0333	5.20		
0926	1.25	0851	4.02	0955	0.96		
TH 1529	4.93	F 1442	2.25	SA 1549	5.22		
○ 2148	1.18	● 2058	4.20	2222	0.73		

SUNRISE AND SUNSET TIMES

TIMES IN GMT

NORTH SHIELDS

YEAR 2022

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

Times computed for an observer at mean sea level

SUNRISE AND SUNSET TIMES

TIMES IN GMT

NORTH SHIELDS

YEAR 2022

April			May			June		
1	05:38	18:42	1	04:26	19:41	1	03:34	20:33
2	05:35	18:44	2	04:23	19:43	2	03:33	20:35
3	05:32	18:46	3	04:21	19:45	3	03:32	20:36
4	05:30	18:48	4	04:19	19:47	4	03:31	20:37
5	05:27	18:50	5	04:17	19:49	5	03:31	20:38
6	05:25	18:52	6	04:15	19:50	6	03:30	20:39
7	05:22	18:54	7	04:13	19:52	7	03:29	20:40
8	05:20	18:56	8	04:11	19:54	8	03:28	20:41
9	05:17	18:58	9	04:09	19:56	9	03:28	20:42
10	05:15	19:00	10	04:07	19:58	10	03:27	20:43
11	05:12	19:02	11	04:05	20:00	11	03:27	20:44
12	05:10	19:04	12	04:03	20:02	12	03:27	20:45
13	05:07	19:06	13	04:02	20:03	13	03:26	20:45
14	05:05	19:08	14	04:00	20:05	14	03:26	20:46
15	05:03	19:10	15	03:58	20:07	15	03:26	20:47
16	05:00	19:12	16	03:56	20:09	16	03:26	20:47
17	04:58	19:14	17	03:54	20:11	17	03:26	20:48
18	04:55	19:16	18	03:53	20:12	18	03:26	20:48
19	04:53	19:18	19	03:51	20:14	19	03:26	20:48
20	04:51	19:20	20	03:50	20:16	20	03:26	20:49
21	04:48	19:22	21	03:48	20:17	21	03:26	20:49
22	04:46	19:23	22	03:47	20:19	22	03:26	20:49
23	04:44	19:25	23	03:45	20:20	23	03:26	20:49
24	04:41	19:27	24	03:44	20:22	24	03:27	20:49
25	04:39	19:29	25	03:42	20:24	25	03:27	20:49
26	04:37	19:31	26	03:41	20:25	26	03:28	20:49
27	04:34	19:33	27	03:40	20:27	27	03:28	20:49
28	04:32	19:35	28	03:38	20:28	28	03:29	20:49
29	04:30	19:37	29	03:37	20:29	29	03:29	20:48
30	04:28	19:39	30	03:36	20:31	30	03:30	20.48
			31	03:35	20:32			

Times computed for an observer at mean sea level

SUNRISE AND SUNSET TIMES

TIMES IN GMT

NORTH SHIELDS

YEAR 2022

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

Times computed for an observer at mean sea level

SUNRISE AND SUNSET TIMES

TIMES IN GMT

NORTH SHIELDS

YEAR 2022

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

Times computed for an observer at mean sea level

SAFE NAVIGATION FOR RECREATIONAL USERS

DO

- Keep to starboard (right hand) side of the channel
- Proceed at a safe speed with due regard to the conditions and traffic
- Wear a suitable life jacket or buoyancy aid
- Respect other users' right to lawful navigation

DO NOT

- Navigate in an inconsiderate or dangerous way such as;
- Inappropriate speed
- Creating wash that upsets other river craft
- Any behaviour that could cause injury or damage
- Swim, dive or engage in underwater activities

It is recommended that all river users obtain a copy of the Port of Tyne General Byelaws which are available on our website at: [www.portoftyne.co.uk/marine information/resources](http://www.portoftyne.co.uk/marine-information/resources)