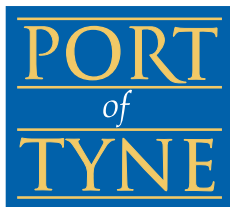




RIVER TYNE OFFICIAL  
**TIDE TABLES**  
2007



50p

PORT OF TYNE AUTHORITY

RIVER TYNE

# TIDE TABLES

FOR THE YEAR 2007

*Issued by the*

**PORT OF TYNE AUTHORITY**

**Maritime House, Tyne Dock,**

**South Shields NE34 9PT**

**Tel: (0191) 455 2671 Fax: (0191) 455 4687**

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## PORT OF TYNE

The Port of Tyne Authority 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 maintained 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 9.1 metres below Chart Datum in the lower reaches of the Port and 12.1 metres below Chart Datum at Riverside Quay, ships of a considerable size can be accommodated within the Port.

## PRINCIPAL OFFICERS

*Head Office,  
Maritime House,  
Tyne Dock,  
South Shields NE34 9PT*  
Tel: +44 (0)191 455 2671 Fax: +44 (0)191 455 4687  
Email: [enquiries@portoftyne.co.uk](mailto:enquiries@portoftyne.co.uk)  
Website: [www.portoftyne.co.uk](http://www.portoftyne.co.uk)

*Managing Director.....K WILSON  
Director of Finance .....M DAVISON  
Director Corporate Services ..... M DENTON-HAWKES  
Marine and Technical Director ..... B REEVE  
Estates Manager.....B DARLING  
Commercial Manager .....M HUNT*

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

*Operations Manager .....M JORDAN*

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

*Harbour Master .....M NICHOLSON*

**Port Operations and Information Service:  
(24 hours) Tel: +44 (0)191 257 2080**

## 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.

Telephone: Tyneside (0191) 257 0407. Fax (0191) 258 3238.

### TYNE DOCK

Maximum Beam	20.5	Metres
Maximum Length	140	Metres
Maximum Draft Predicted High Water	+2.5	Metres

Larger Vessels may be accommodated, contact the Harbour Master for further details.

21,000 m<sup>2</sup> Customs Approved transit shed storage

20,000m<sup>2</sup> Customs Approved open storage area

6.9 ha Container Terminal

4 Liebherr harbour mobile cranes capacity 100 tonnes at 17 metre radius. 3 mobile crawler cranes.

Pallet storage: 58,000 pallet slots available

Intermodal rail terminal and in-house distribution fleet

### RIVERSIDE QUAY:

574m. long. Depth of Water 12.1m. below Chart Datum.

3 electric Cranes, 15 tonnes, 1 container gantry crane

(capacity 35 tonnes under spreader, 40 tonnes under the hook).

## **PARTICULARS OF RIVER AND DOCK BERTHS** *(continued)*

### **TYNE BULK TERMINAL:**

1 Berth 170m. long

Depth of Water 12.1m. below Chart Datum.

### **NORTH WEST QUAY**

243m long

Depth of Water 7.7m - 8.9m Dependent on Tide

### **FACTORY QUAY**

196m Long

Depth of Water 6.7m - 7.9m Dependent on Tide

### **TYNE CAR TERMINAL**

3 Berths with pontoons, including 1 Heavy Duty pontoon

No. 1 Berth 230m. x 50m. 9.5m. below Chart Datum

No. 2 Berth 180m. x 40m. 7.0m. below Chart Datum

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

**No. 1 Berth has a fixed Platform Quay 95m. x 30m.**

# **PARTICULARS OF RIVER AND DOCK BERTHS**

*(continued)*

## **INTERNATIONAL PASSENGER TERMINAL**

### **(RO/RO NO. 3)**

Quay to serve side hatches - 125m. long.

Dual linkspan bridge for stern loading and discharging.  
4.72m. wide.

Depth of Water - 7.1m. below Chart Datum.

Elevated passenger walkway with automated baggage conveyor.

### **(RO/RO NO. 4)**

Quay 115m. long.

Dredged berth length 140m.

Linkspan bridge for stern loading and discharging.  
9.4m. wide, no headway limit.

Depth of Water - 7.5m. below Chart Datum.

Elevated passenger walkway with automated baggage conveyor.

### **TYNE COMMISSION QUAY - Lay-by Berth**

335m. long Depth of Water - 9.0m. below Chart Datum.

### **WHITEHILL POINT**

105m. long. Accepts vessels up to 220m LOA.

Depth of Water - 8.6m. below Chart Datum.

### **FISH QUAY**

995m. Long

Depth of Water - 3.2m. and 5.0m below Chart Datum.

# **PARTICULARS OF RIVER AND DOCK BERTHS**

*(continued)*

## **AGGREGATE BERTHS**

Howdon Jetty (Tarmac)

Berth - 150m. long

Depth of Water - 7.1m. below Chart Datum.

Gateshead (Lafarge Aggregates)

Berth - 80m. long

Depth of Water - 2.2m. below Chart Datum.

Jarrow (CEMEX UK Materials Ltd)

Berth - 198m long

Depth of Water - 5.5m. below Chart Datum.

## **OIL INSTALLATIONS**

**Tyne Tanker Berth, North Shields (Simon Storage Ltd.)**

Berth - 248m. long

Depth of Water 7.1m. below Chart Datum.

**Ocean Tanker Berth, North Shields (Simon Storage Ltd.)**

Berth - 274m. long

Depth of Water 8.5m - 10.5m. below Chart Datum.

## **OFFSHORE TECHNOLOGY PARK, WALKER**

Berth - 525m. long

Depth of Water - normally up to 7.7m. below Chart Datum.

## NAVIGATION

### **Port Operations and Information Service**

A VHF Radio Port Operations and Information Service on a 24 hour coverage is provided for use by vessels approaching the Port, for movement of vessels in the Port and for giving information to Shipowners and Agents.

The call sign is "Tyne Harbour Radio" on VHF Channel 12.

Telephone: Tyneside (0191) 257 2080. Facsimile (0191) 258 3238.

### **Pilotage**

In accordance with the Pilotage Act 1987 the Port of Tyne Authority 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 the Port Operations and Information Service.

### **Towage and Port Services**

Towage services in the Port area are provided by Svitzer Marine Limited, who operates a fleet of three modern tugs. Full information regarding services and rates may be obtained from:- Svitzer Marine Limited Tel: (01642) 258300

Fax: (01642) 246370

### **Mooring Services**

The necessary mooring services for vessels using the Port are supplied by Foyboat or Mooring men licensed by the Port of Tyne Authority. Tyne Foyboatmen Tel: (0191) 456 2070

Fax: (0191) 455 6230

## **Bunkering**

Bunkering services are available by pipeline and road tanker. A 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 - 9.1m. below Chart Datum.

## **Shiprepairing**

A drydock 259m long and 44m wide, and several slipways are available on the Tyne.

## **Tyne Tunnel**

The tunnel situated at Howdon and Jarrow has a carriageway 7.3m. wide and carries the A19 trunk road, bypassing the Tyneside conurbation.

## TIDAL CONSTANTS 2007

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 Proudman Oceanographic Laboratory: Copyright reserved.
2. **The time throughout is Greenwich Mean Time. To arrive at British Summer Time add one hour. British Summer Time begins March 25th 2007 and ends October 28th 2007.**
3. Zero mark on the Authority's River 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) 9.1m. Thence to Jarrow Staith (West end) 6.0m. Thence to Newcastle Bridges 5.2m. (except in the main channels of the Swing Bridge and High Level Bridge, Newcastle). West of Newcastle Bridges there is no authorised depth.

The dredged depths in the channel 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: Tyneside (0191) 257 0407. Fax (0191) 258 3238.

5.

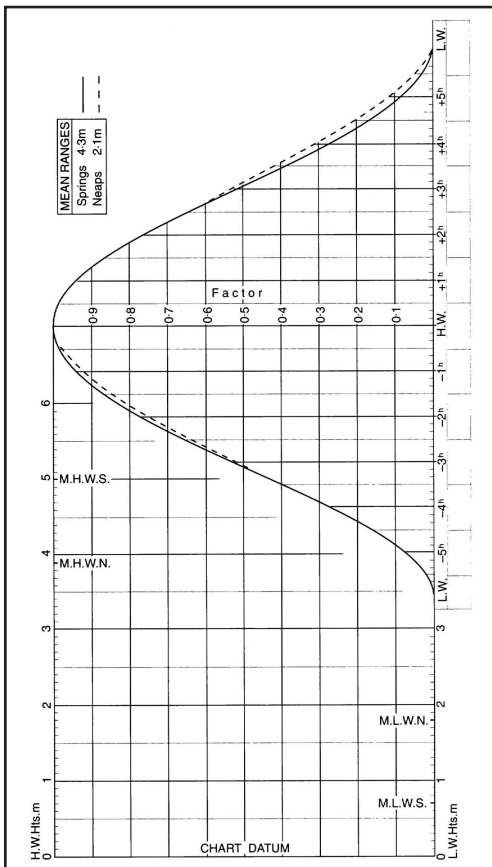
MHWS	5.0m.	Mean Spring Range	4.3m.
MHWN	3.9m.	Mean Neap Range	2.1m.
MLWN	1.8m.		
MLWS	0.7m.		

Every care has been exercised to ensure accuracy but the Authority do 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 2007

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0057	4-62	<b>9</b> 0057	1-17	<b>17</b> 0159	4-32	<b>25</b> 0142	0-83
0731	1-39	0703	4-35	0813	1-61	0752	4-53
M 1335	4-60	Tu 1251	1-71	W 1414	4-49	Th 1348	1-41
1956	1-36	1904	4-60	2040	1-42	☾ 1955	4-87
<b>2</b> 0157	4-72	<b>10</b> 0135	1-36	<b>18</b> 0245	4-55	<b>26</b> 0233	1-13
0824	1-35	0743	4-18	0856	1-42	0847	4-32
Tu 1424	4-76	W 1329	1-87	Th 1455	4-72	F 1442	1-63
2051	1-13	1948	4-41	2123	1-11	2056	4-59
<b>3</b> 0252	4-81	<b>11</b> 0217	1-56	<b>19</b> 0327	4-76	<b>27</b> 0333	1-46
0911	1-32	0830	4-03	0937	1-24	0951	4-14
W 1509	4-89	Th 1414	2-05	F 1533	4-93	Sa 1554	1-82
○ 2140	0-95	☾ 2037	4-22	● 2205	0-83	2211	4-34
<b>4</b> 0340	4-85	<b>12</b> 0306	1-76	<b>20</b> 0410	4-92	<b>28</b> 0449	1-72
0954	1-32	0922	3-90	1018	1-09	1106	4-07
Th 1551	4-98	F 1512	2-21	Sa 1611	5-10	Su 1724	1-86
2225	0-85	2134	4-04	2249	0-61	2337	4-22
<b>5</b> 0425	4-84	<b>13</b> 0407	1-92	<b>21</b> 0450	5-01	<b>29</b> 0613	1-81
1034	1-35	1024	3-85	1059	1-01	1222	4-16
F 1631	5-00	Sa 1628	2-29	Su 1652	5-22	M 1850	1-69
2307	0-83	2243	3-94	2331	0-49		
<b>6</b> 0506	4-76	<b>14</b> 0517	1-98	<b>22</b> 0534	5-00	<b>30</b> 0058	4-29
1110	1-40	1131	3-89	1138	1-00	0725	1-75
Sa 1709	4-96	Su 1751	2-22	M 1733	5-26	Tu 1328	4-36
2345	0-89	2358	3-97			1957	1-41
<b>7</b> 0545	4-65	<b>15</b> 0626	1-93	<b>23</b> 0013	0-49	<b>31</b> 0203	4-45
1144	1-48	1236	4-04	0618	4-91	0821	1-61
Su 1745	4-88	M 1900	2-01	Tu 1219	1-07	W 1420	4-59
				1816	5-21	2051	1-13
<b>8</b> 0022	1-01	<b>16</b> 0104	4-11	<b>24</b> 0057	0-60		
0623	4-51	0724	1-79	0703	4-74		
M 1218	1-58	Tu 1329	4-26	W 1301	1-21		
1823	4-76	1955	1-73	1903	5-08		

# ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

FEBRUARY 2007

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

Time	m	Time	m	Time	m	Time	m
<b>1</b>	0254 4-60	<b>9</b>	0126 1-40	<b>17</b>	0311 4-83	<b>25</b>	0259 1-69
	0906 1-47		0735 4-17		0922 1-07		0918 4-03
Th	1504 4-78	F	1324 1-75	Sa	1513 5-02	Su	1533 1-77
	2136 0-91		1943 4-29	●	2150 0-51		2157 4-08
<b>2</b>	0336 4-71	<b>10</b>	0206 1-67	<b>18</b>	0351 5-05	<b>26</b>	0426 2-03
	0946 1-34		0819 3-98		1001 0-84		1042 3-89
F	1541 4-91	Sa	1409 1-99	Su	1553 5-28	M	1719 1-84
○	2215 0-78	☾	2034 4-03		2231 0-26		2337 3-96
<b>3</b>	0414 4-76	<b>11</b>	0256 1-95	<b>19</b>	0431 5-16	<b>27</b>	0609 2-08
	1019 1-25		0915 3-81		1041 0-70		1211 3-99
Sa	1617 4-99	Su	1513 2-20	M	1631 5-44	Tu	1850 1-63
	2249 0-73		2141 3-81		2311 0-14		
<b>4</b>	0448 4-76	<b>12</b>	0410 2-15	<b>20</b>	0511 5-16	<b>28</b>	0103 4-11
	1050 1-21		1026 3-73		1119 0-66		0724 1-91
Su	1649 5-01	M	1649 2-27	Tu	1711 5-49	W	1319 4-24
	2321 0-75		2311 3-75		2352 0-20		1955 1-32
<b>5</b>	0520 4-70	<b>13</b>	0544 2-16	<b>21</b>	0552 5-04		
	1120 1-21		1151 3-82		1156 0-73		
M	1720 4-97	Tu	1829 2-07	W	1754 5-40		
	2352 0-83						
<b>6</b>	0551 4-61	<b>14</b>	0039 3-91	<b>22</b>	0032 0-43		
	1148 1-27		0701 1-96		0634 4-84		
Tu	1752 4-88	W	1301 4-06	Th	1237 0-91		
			1934 1-70		1840 5-18		
<b>7</b>	0022 0-97	<b>15</b>	0142 4-22	<b>23</b>	0114 0-78		
	0623 4-49		0756 1-67		0719 4-58		
W	1216 1-38	Th	1352 4-38	F	1321 1-17		
	1826 4-73		2024 1-28		1932 4-84		
<b>8</b>	0053 1-16	<b>16</b>	0230 4-54	<b>24</b>	0200 1-23		
	0657 4-34		0841 1-36		0811 4-29		
Th	1247 1-54	F	1435 4-71	Sa	1416 1-49		
	1903 4-53		2108 0-87	☾	2035 4-43		

# ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

MARCH 2007

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

	Time	m		Time	m		Time	m		Time	m
<b>1</b> Th	0202	4-33	<b>9</b> F	0015	1-08	<b>17</b> Sa	0204	4-60	<b>25</b> Su ☾	0135	1-44
	0816	1-67		0618	4-46		0817	1-25		0745	4-28
	1411	4-50		1216	1-32		1407	4-76		1403	1-39
	2042	1-05		1827	4-53		2042	0-63		2026	4-23
<b>2</b> F	0245	4-52	<b>10</b> Sa	0044	1-33	<b>18</b> Su	0247	4-90	<b>26</b> M	0237	1-92
	0855	1-45		0651	4-28		0858	0-92		0852	4-00
	1451	4-71		1249	1-53		1447	5-11		1526	1-67
	2120	0-86		1905	4-28		2125	0-28		2151	3-91
<b>3</b> Sa ○	0320	4-65	<b>11</b> Su	0119	1-63	<b>19</b> M ●	0326	5-12	<b>27</b> Tu	0412	2-21
	0927	1-27		0731	4-08		0937	0-66		1021	3-85
	1525	4-86		1329	1-78		M 1526	5-39		1711	1-71
	2154	0-73		1955	4-01		● 2207	0-07		2330	3-87
<b>4</b> Su	0353	4-72	<b>12</b> M ☾	0206	1-94	<b>20</b> Tu	0405	5-23	<b>28</b> W	0558	2-17
	0957	1-12		0823	3-86		1017	0-50		1152	3-95
	1556	4-95		M 1430	2-02		1607	5-55		1837	1-50
	2224	0-67		☾ 2102	3-76		2248	0-03			
<b>5</b> M	0421	4-75	<b>13</b> Tu	0319	2-20	<b>21</b> W	0445	5-21	<b>29</b> Th	0049	4-04
	1025	1-04		0936	3-70		1055	0-46		0707	1-94
	1624	4-98		Tu 1604	2-14		1649	5-55		1300	4-19
	2252	0-68		2236	3-67		2327	0-18		1935	1-24
<b>6</b> Tu	0449	4-74	<b>14</b> W	0507	2-24	<b>22</b> Th	0524	5-09	<b>30</b> F	0142	4-26
	1052	1-02		1109	3-73		1135	0-54		0753	1-67
	1653	4-96		W 1755	1-94		1734	5-38		1348	4-43
	2319	0-75								2019	1-04
<b>7</b> W	0517	4-68	<b>15</b> Th	0012	3-87	<b>23</b> F	0006	0-50	<b>31</b> Sa	0221	4-44
	1119	1-06		0636	1-98		0606	4-87		0830	1-43
	1723	4-87		Th 1227	3-99		F 1218	0-74		1426	4-62
	2347	0-88		1907	1-53		1823	5-08		2052	0-89
<b>8</b> Th	0547	4-59	<b>16</b> F	0117	4-23	<b>24</b> Sa	0049	0-94			
	1147	1-16		0732	1-62		0653	4-59			
	1754	4-73		F 1324	4-37		Sa 1304	1-04			
				1959	1-07		1918	4-66			

# ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

APRIL 2007

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0254	4.57	<b>9</b>	0049	1.64	<b>17</b>	0256	5.09	<b>25</b>	0347	2.21
	0901	1.24		0658	4.17		0909	0.63		0953	3.94
Su	1458	4.76	M	1311	1.60	Tu	1501	5.38	W	1645	1.55
	2123	0.78		1935	4.00	●	2139	0.14		2300	3.85
<b>2</b>	0323	4.67	<b>10</b>	0136	1.92	<b>18</b>	0337	5.18	<b>26</b>	0519	2.17
	0929	1.08		0752	3.96		0951	0.47		1116	3.98
M	1527	4.85	Tu	1413	1.80	W	1544	5.48	Th	1801	1.45
○	2151	0.73	☾	2044	3.80		2221	0.19			
<b>3</b>	0351	4.72	<b>11</b>	0251	2.15	<b>19</b>	0418	5.17	<b>27</b>	0012	3.97
	0957	0.99		0904	3.80		1035	0.42		0626	1.97
Tu	1557	4.88	W	1540	1.87	Th	1631	5.41	F	1220	4.14
	2219	0.73		2211	3.76		2303	0.41		1857	1.30
<b>4</b>	0418	4.74	<b>12</b>	0432	2.16	<b>20</b>	0500	5.06	<b>28</b>	0104	4.14
	1025	0.96		1029	3.83		1119	0.50		0714	1.74
W	1626	4.85	Th	1719	1.68	F	1720	5.20	Sa	1311	4.31
	2246	0.80		2338	3.96		2345	0.76		1939	1.16
<b>5</b>	0446	4.71	<b>13</b>	0558	1.92	<b>21</b>	0544	4.86	<b>29</b>	0145	4.31
	1053	0.99		1148	4.07		1205	0.69		0753	1.52
Th	1656	4.77	F	1830	1.30	Sa	1812	4.88	Su	1350	4.47
	2314	0.94								2014	1.04
<b>6</b>	0514	4.63	<b>14</b>	0043	4.29	<b>22</b>	0029	1.18	<b>30</b>	0219	4.45
	1121	1.08		0657	1.56		0630	4.61		0827	1.33
F	1728	4.63	Sa	1247	4.43	Su	1257	0.96	M	1426	4.59
	2342	1.13		1925	0.89		1911	4.50		2047	0.95
<b>7</b>	0544	4.52	<b>15</b>	0134	4.62	<b>23</b>	0118	1.62			
	1152	1.22		0745	1.20		0725	4.33			
Sa	1804	4.45	Su	1334	4.81	M	1357	1.26			
				2011	0.52		2017	4.14			
<b>8</b>	0012	1.37	<b>16</b>	0216	4.90	<b>24</b>	0221	2.00			
	0618	4.37		0827	0.88		0831	4.08			
Su	1227	1.40	M	1417	5.15	Tu	1515	1.49			
	1844	4.23		2056	0.26	☾	2136	3.90			

# ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

MAY 2007

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0249	4-57	<b>9</b> 0125	1-83	<b>17</b> 0312	5-05	<b>25</b> 0415	2-11
0858	1-18	0735	4-14	0933	0-57	1022	4-05
Tu 1458	4-68	W 1407	1-51	Th 1529	5-25	F 1703	1-49
2116	0-90	2031	3-97	2200	0-54	2316	3-89
<b>2</b> 0319	4-65	<b>10</b> 0234	1-97	<b>18</b> 0356	5-06	<b>26</b> 0524	2-03
0930	1-07	0841	4-04	1021	0-50	1127	4-08
W 1530	4-71	Th 1522	1-52	F 1619	5-16	Sa 1802	1-46
○ 2147	0-90	☾ 2146	3-96	2243	0-75		
<b>3</b> 0349	4-69	<b>11</b> 0356	1-97	<b>19</b> 0441	4-99	<b>27</b> 0012	3-99
1001	1-02	0954	4-07	1109	0-54	0622	1-88
Th 1603	4-69	F 1641	1-38	Sa 1711	4-98	Su 1222	4-16
2217	0-96	2300	4-09	2328	1-03	1850	1-38
<b>4</b> 0418	4-69	<b>12</b> 0511	1-80	<b>20</b> 0526	4-86	<b>28</b> 0058	4-13
1032	1-02	1106	4-26	1159	0-67	0708	1-70
F 1636	4-63	Sa 1749	1-12	Su 1805	4-72	M 1310	4-28
2248	1-08					1931	1-29
<b>5</b> 0448	4-65	<b>13</b> 0005	4-33	<b>21</b> 0013	1-34	<b>29</b> 0139	4-29
1104	1-07	0615	1-54	0615	4-68	0750	1-52
Sa 1711	4-53	Su 1208	4-53	M 1250	0-87	Tu 1352	4-38
2319	1-23	1847	0-85	1900	4-44	2009	1-21
<b>6</b> 0520	4-57	<b>14</b> 0058	4-58	<b>22</b> 0103	1-64	<b>30</b> 0216	4-43
1140	1-15	0708	1-25	0707	4-47	0828	1-36
Su 1749	4-40	M 1301	4-82	Tu 1346	1-10	W 1430	4-47
2354	1-42	1939	0-62	1959	4-18	2045	1-16
<b>7</b> 0556	4-45	<b>15</b> 0145	4-80	<b>23</b> 0157	1-90	<b>31</b> 0249	4-54
1219	1-27	0757	0-97	0806	4-26	0905	1-23
M 1834	4-24	Tu 1350	5-06	W 1448	1-31	Th 1508	4-53
		2027	0-48	☾ 2102	3-97	2119	1-14
<b>8</b> 0033	1-62	<b>16</b> 0230	4-96	<b>24</b> 0302	2-07		
0640	4-30	0845	0-73	0912	4-11		
Tu 1307	1-40	W 1438	5-21	Th 1556	1-45		
1928	4-08	● 2113	0-45	2210	3-87		

# ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

JUNE 2007

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0322	4-63	<b>9</b> 0318	1-73	<b>17</b> 0426	4-96	<b>25</b> 0516	2-04
0940	1-13	0920	4-38	1103	0-56	1124	4-01
F 1544	4-56	Sa 1603	1-16	Su 1704	4-84	M 1752	1-66
○ 2154	1-15	2221	4-20	2316	1-17		
<b>2</b> 0354	4-67	<b>10</b> 0425	1-69	<b>18</b> 0511	4-91	<b>26</b> 0005	3-96
1017	1-05	1026	4-44	1151	0-62	0620	1-93
Sa 1621	4-56	Su 1709	1-09	M 1754	4-68	Tu 1225	4-06
2228	1-19	2326	4-31	2358	1-34	1846	1-61
<b>3</b> 0428	4-68	<b>11</b> 0533	1-56	<b>19</b> 0556	4-80	<b>27</b> 0057	4-11
1053	1-02	1131	4-55	1236	0-76	0715	1-76
Su 1700	4-53	M 1812	1-00	Tu 1841	4-49	W 1319	4-16
2304	1-26					1935	1-53
<b>4</b> 0504	4-66	<b>12</b> 0025	4-46	<b>20</b> 0040	1-51	<b>28</b> 0142	4-27
1133	1-01	0636	1-37	0643	4-65	0802	1-56
M 1742	4-47	Tu 1233	4-70	W 1321	0-96	Th 1407	4-28
2344	1-36	1911	0-92	1929	4-29	2019	1-44
<b>5</b> 0544	4-60	<b>13</b> 0118	4-62	<b>21</b> 0122	1-68	<b>29</b> 0223	4-43
1216	1-05	0734	1-14	0731	4-48	0845	1-36
Tu 1827	4-39	W 1332	4-84	Th 1407	1-17	F 1449	4-41
		2006	0-87	2019	4-10	2058	1-35
<b>6</b> 0027	1-48	<b>14</b> 0209	4-77	<b>22</b> 0209	1-84	<b>30</b> 0301	4-58
0629	4-53	0830	0-91	0823	4-30	0925	1-17
W 1304	1-10	Th 1428	4-94	F 1458	1-38	Sa 1530	4-53
1918	4-30	2056	0-87	☾ 2111	3-95	○ 2137	1-27
<b>7</b> 0117	1-60	<b>15</b> 0255	4-89	<b>23</b> 0304	1-98		
0719	4-45	0923	0-72	0919	4-15		
Th 1357	1-15	F 1522	4-98	Sa 1553	1-55		
2014	4-22	● 2146	0-93	2207	3-87		
<b>8</b> 0213	1-69	<b>16</b> 0341	4-96	<b>24</b> 0407	2-06		
0817	4-39	1014	0-59	1021	4-04		
F 1456	1-17	Sa 1614	4-95	Su 1652	1-64		
☾ 2116	4-18	2232	1-03	2307	3-87		

# ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

JULY 2007

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0337	4.70	<b>9</b>	0344	1.63	<b>17</b>	0455	5.01	<b>25</b>	0528	2.13
Su	1004	0.99	M	0953	4.50	Tu	1134	0.57	W	1140	3.85
	1610	4.62		1632	1.26		1733	4.72		1804	1.94
	2215	1.20		2250	4.22		2335	1.22			
<b>2</b>	0412	4.80	<b>10</b>	0457	1.64	<b>18</b>	0534	4.95	<b>26</b>	0015	3.94
M	1045	0.85	Tu	1106	4.44	W	1211	0.69	Th	0643	1.96
	1650	4.68		1744	1.35		1812	4.59		1251	3.97
	2255	1.16		2358	4.28					1907	1.83
<b>3</b>	0450	4.86	<b>11</b>	0615	1.53	<b>19</b>	0009	1.32	<b>27</b>	0112	4.14
Tu	1126	0.75	W	1220	4.46	Th	0613	4.83	F	0741	1.69
	1731	4.69		1854	1.35		1247	0.86		1348	4.17
	2334	1.16					1850	4.43		1957	1.65
<b>4</b>	0531	4.88	<b>12</b>	0101	4.43	<b>20</b>	0043	1.45	<b>28</b>	0200	4.37
W	1208	0.72	Th	0725	1.30	F	0651	4.67	Sa	0827	1.40
	1815	4.65		1329	4.57		1322	1.08		1434	4.40
				1956	1.30		1929	4.26		2041	1.45
<b>5</b>	0015	1.21	<b>13</b>	0157	4.61	<b>21</b>	0119	1.62	<b>29</b>	0241	4.60
Th	0613	4.87	F	0826	1.03	Sa	0734	4.47	Su	0909	1.10
	1251	0.74		1428	4.71		1402	1.33		1515	4.61
	1900	4.57		2049	1.23		2013	4.09		2122	1.25
<b>6</b>	0058	1.30	<b>14</b>	0247	4.79	<b>22</b>	0202	1.81	<b>30</b>	0318	4.82
F	0658	4.82	Sa	0920	0.79	Su	0821	4.25	M	0950	0.82
	1338	0.83	●	1522	4.81	☾	1445	1.58	○	1554	4.80
	1949	4.46		2137	1.17		2101	3.94		2200	1.07
<b>7</b>	0146	1.41	<b>15</b>	0333	4.93	<b>23</b>	0254	2.00	<b>31</b>	0354	5.01
Sa	0749	4.73	Su	1008	0.62	M	0916	4.03	Tu	1029	0.58
☾	1428	0.96		1608	4.85		1540	1.80		1632	4.92
	2044	4.34		2221	1.15		2158	3.84		2239	0.95
<b>8</b>	0241	1.53	<b>16</b>	0415	5.00	<b>24</b>	0403	2.14			
Su	0847	4.62	M	1053	0.54	Tu	1022	3.88			
	1526	1.11		1652	4.82		1649	1.94			
	2144	4.25		2259	1.17		2306	3.83			

# ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

AUGUST 2007

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0432	5-15	<b>9</b>	0612	1-63	<b>17</b>	0538	4-95	<b>25</b>	0043	4-07
	1110	0-44		1223	4-25		1208	0-85		0718	1-71
W	1711	4-96	Th	1851	1-74	F	1809	4-58	Sa	1328	4-17
	2317	0-89								1938	1-75
<b>2</b>	0510	5-22	<b>10</b>	0054	4-32	<b>18</b>	0006	1-29	<b>26</b>	0135	4-37
	1149	0-40		0728	1-35		0613	4-79		0806	1-32
Th	1752	4-92	F	1335	4-43	Sa	1239	1-06	Su	1413	4-49
	2355	0-92		1955	1-59		1843	4-43		2021	1-45
<b>3</b>	0551	5-22	<b>11</b>	0153	4-57	<b>19</b>	0037	1-46	<b>27</b>	0216	4-69
	1230	0-47		0826	1-03		0650	4-57		0848	0-94
F	1834	4-81	Sa	1431	4-63	Su	1311	1-33	M	1452	4-77
				2045	1-41		1921	4-26		2101	1-16
<b>4</b>	0034	1-03	<b>12</b>	0241	4-80	<b>20</b>	0112	1-68	<b>28</b>	0254	4-99
	0634	5-12		0915	0-78		0732	4-31		0927	0-60
Sa	1312	0-66	Su	1516	4-77	M	1349	1-63	Tu	1530	5-00
	1919	4-64	●	2126	1-26	☾	2004	4-07	○	2139	0-92
<b>5</b>	0118	1-20	<b>13</b>	0322	4-97	<b>21</b>	0157	1-93	<b>29</b>	0329	5-25
	0724	4-94		0957	0-61		0823	4-04		1007	0-34
Su	1357	0-95	M	1556	4-84	Tu	1438	1-93	W	1608	5-15
☾	2010	4-43		2203	1-15		2058	3-89		2215	0-75
<b>6</b>	0209	1-42	<b>14</b>	0358	5-07	<b>22</b>	0301	2-16	<b>30</b>	0407	5-43
	0820	4-68		1034	0-55		0929	3-80		1046	0-20
M	1452	1-29	Tu	1631	4-84	W	1549	2-17	Th	1646	5-19
	2109	4-23		2236	1-09		2208	3-79		2253	0-69
<b>7</b>	0315	1-64	<b>15</b>	0432	5-09	<b>23</b>	0435	2-24	<b>31</b>	0445	5-51
	0929	4-40		1107	0-57		1057	3-72		1124	0-22
Tu	1603	1-60	W	1704	4-79	Th	1723	2-22	F	1724	5-13
	2222	4-11		2307	1-10		2331	3-84		2331	0-73
<b>8</b>	0439	1-75	<b>16</b>	0506	5-05	<b>24</b>	0613	2-06			
	1055	4-22		1138	0-68		1226	3-88			
W	1730	1-77	Th	1737	4-70	F	1843	2-04			
	2342	4-14		2337	1-17						

# ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

SEPTEMBER 2007

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0527	5.46	<b>9</b> 0143	4.62	<b>17</b> 0002	1.40	<b>25</b> 0145	4.81
1204	0.40	0817	0.99	0613	4.58	0819	0.81
Sa 1805	4.97	Su 1423	4.63	M 1227	1.41	Tu 1424	4.91
		2031	1.47	1836	4.41	2033	1.11
<b>2</b> 0011	0.87	<b>10</b> 0227	4.85	<b>18</b> 0036	1.61	<b>26</b> 0223	5.15
0612	5.27	0859	0.79	0654	4.32	0859	0.47
Su 1244	0.72	M 1459	4.77	Tu 1303	1.71	W 1501	5.14
1850	4.75	2108	1.28	1917	4.20	○ 2111	0.85
<b>3</b> 0054	1.10	<b>11</b> 0304	5.01	<b>19</b> 0118	1.86	<b>27</b> 0301	5.43
0703	4.96	0934	0.67	0743	4.04	0939	0.25
M 1329	1.14	Tu 1533	4.85	W 1348	2.04	Th 1539	5.29
1941	4.48	● 2139	1.14	☾ 2009	3.98	2149	0.67
<b>4</b> 0148	1.40	<b>12</b> 0334	5.10	<b>20</b> 0219	2.10	<b>28</b> 0340	5.61
0803	4.57	1005	0.63	0851	3.80	1018	0.18
Tu 1426	1.61	W 1603	4.88	Th 1459	2.31	F 1617	5.32
☾ 2042	4.21	2208	1.06	2119	3.82	2228	0.60
<b>5</b> 0259	1.68	<b>13</b> 0405	5.12	<b>21</b> 0351	2.21	<b>29</b> 0421	5.64
0920	4.21	1035	0.66	1019	3.72	1059	0.28
W 1547	1.99	Th 1632	4.86	F 1643	2.37	Sa 1656	5.24
2203	4.04	2236	1.05	2248	3.85	2309	0.64
<b>6</b> 0439	1.79	<b>14</b> 0435	5.08	<b>22</b> 0538	2.03	<b>30</b> 0506	5.51
1059	4.06	1102	0.76	1154	3.90	1138	0.56
Th 1730	2.10	F 1700	4.81	Sa 1813	2.14	Su 1738	5.06
2334	4.10	2304	1.11			2351	0.81
<b>7</b> 0616	1.60	<b>15</b> 0506	4.97	<b>23</b> 0006	4.09		
1230	4.19	1130	0.92	0647	1.64		
F 1851	1.94	Sa 1730	4.71	Su 1258	4.24		
		2333	1.23	1910	1.79		
<b>8</b> 0049	4.34	<b>16</b> 0538	4.80	<b>24</b> 0101	4.44		
0725	1.28	1158	1.14	0736	1.22		
Sa 1335	4.43	Su 1802	4.58	M 1343	4.59		
1948	1.70			1953	1.44		

# ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

OCTOBER 2007

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0554	5-24	<b>9</b> 0203	4-82	<b>17</b> 0013	1-56	<b>25</b> 0150	5-21
1220	0-96	0831	0-93	0630	4-32	0827	0-53
M 1823	4-81	Tu 1433	4-73	W 1230	1-79	Th 1430	5-16
		2040	1-35	1841	4-33	2041	0-89
<b>2</b> 0040	1-07	<b>10</b> 0237	4-95	<b>18</b> 0057	1-77	<b>26</b> 0233	5-46
0650	4-85	0904	0-85	0721	4-08	0911	0-38
Tu 1308	1-44	W 1504	4-83	Th 1315	2-08	F 1509	5-29
1917	4-52	2109	1-21	1934	4-13	○ 2123	0-71
<b>3</b> 0138	1-39	<b>11</b> 0308	5-03	<b>19</b> 0156	1-96	<b>27</b> 0316	5-59
0756	4-44	0932	0-82	0826	3-89	0953	0-38
W 1409	1-91	Th 1532	4-88	F 1426	2-31	Sa 1550	5-33
☾ 2023	4-24	● 2139	1-12	☽ 2041	3-97	2207	0-62
<b>4</b> 0258	1-66	<b>12</b> 0337	5-05	<b>20</b> 0319	2-04	<b>28</b> 0403	5-57
0919	4-11	1000	0-84	0947	3-84	1035	0-55
Th 1539	2-24	F 1600	4-90	Sa 1601	2-36	Su 1632	5-26
2149	4-08	2208	1-10	2204	3-97	2252	0-65
<b>5</b> 0439	1-71	<b>13</b> 0408	5-00	<b>21</b> 0453	1-89	<b>29</b> 0452	5-40
1056	4-04	1028	0-93	1113	4-00	1119	0-85
F 1721	2-25	Sa 1628	4-87	Su 1730	2-15	M 1716	5-10
2319	4-16	2238	1-14	2321	4-18	2341	0-79
<b>6</b> 0606	1-52	<b>14</b> 0439	4-90	<b>22</b> 0606	1-55	<b>30</b> 0545	5-11
1219	4-20	1056	1-08	1218	4-31	1204	1-24
Sa 1836	2-03	Su 1657	4-80	M 1830	1-82	Tu 1804	4-87
		2307	1-24				
<b>7</b> 0030	4-39	<b>15</b> 0513	4-75	<b>23</b> 0020	4-52	<b>31</b> 0033	1-03
0708	1-26	1124	1-28	0658	1-15	0643	4-75
Su 1317	4-42	M 1727	4-69	Tu 1308	4-64	W 1254	1-66
1926	1-77	2338	1-38	1917	1-48	1858	4-61
<b>8</b> 0122	4-63	<b>16</b> 0548	4-55	<b>24</b> 0108	4-88		
0755	1-06	1155	1-52	0745	0-80		
M 1359	4-60	Tu 1801	4-53	W 1350	4-94		
2006	1-54			1959	1-16		

# ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

NOVEMBER 2007

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0135	1-30	<b>9</b> 0241	4-85	<b>17</b> 0142	1-70	<b>25</b> 0302	5-38
0750	4-39	0859	1-09	0804	4-08	0933	0-73
Th 1356	2-04	F 1502	4-82	Sa 1400	2-13	Su 1530	5-23
( 2004	4-37	● 2113	1-27	) 2010	4-23	2156	0-70
<b>2</b> 0249	1-52	<b>10</b> 0313	4-87	<b>18</b> 0249	1-74	<b>26</b> 0353	5-36
0906	4-14	0929	1-10	0912	4-04	1019	0-88
F 1516	2-28	Sa 1532	4-87	Su 1516	2-19	M 1615	5-21
2123	4-22	2146	1-22	2119	4-22	2245	0-66
<b>3</b> 0415	1-60	<b>11</b> 0347	4-85	<b>19</b> 0404	1-66	<b>27</b> 0446	5-22
1029	4-06	1000	1-16	1025	4-12	1104	1-10
Sa 1645	2-28	Su 1601	4-87	M 1634	2-09	Tu 1700	5-12
2246	4-23	2217	1-22	2231	4-34	2335	0-74
<b>4</b> 0533	1-52	<b>12</b> 0421	4-78	<b>20</b> 0516	1-45	<b>28</b> 0540	5-00
1144	4-14	1029	1-27	1131	4-33	1152	1-38
Su 1756	2-12	M 1632	4-84	Tu 1740	1-86	W 1749	4-97
2354	4-37	2249	1-26	2334	4-57		
<b>5</b> 0633	1-40	<b>13</b> 0456	4-67	<b>21</b> 0616	1-19	<b>29</b> 0029	0-89
1240	4-30	1102	1-41	1227	4-58	0636	4-72
M 1850	1-91	Tu 1704	4-76	W 1837	1-58	Th 1240	1-67
		2324	1-34			1841	4-77
<b>6</b> 0047	4-53	<b>14</b> 0534	4-53	<b>22</b> 0030	4-85	<b>30</b> 0124	1-11
0719	1-28	1134	1-59	0710	0-95	0734	4-45
Tu 1324	4-46	W 1740	4-64	Th 1317	4-83	F 1334	1-93
1932	1-70			1928	1-30	1939	4-57
<b>7</b> 0131	4-67	<b>15</b> 0002	1-45	<b>23</b> 0122	5-10		
0756	1-19	0616	4-38	0759	0-77		
W 1400	4-60	Th 1212	1-78	F 1403	5-03		
2007	1-52	1820	4-49	2017	1-03		
<b>8</b> 0207	4-78	<b>16</b> 0047	1-58	<b>24</b> 0211	5-29		
0828	1-13	0705	4-21	0845	0-70		
Th 1431	4-73	F 1300	1-97	Sa 1447	5-17		
2041	1-37	1910	4-34	○ 2106	0-83		

# ENGLAND, EAST COAST - RIVER TYNE (NORTH SHIELDS)

Lat 55°00'N Long 1°26'W

DECEMBER 2007

TIME ZONE GMT

TIMES AND HEIGHTS OF HIGH AND LOW WATER

Time	m	Time	m	Time	m	Time	m
<b>1</b> 0224 1-33 0835 4-22 Sa 1434 2-12 ( 2044 4-39		<b>9</b> 0256 4-64 0905 1-37 Su 1509 4-76 ● 2129 1-33		<b>17</b> 0220 1-39 0835 4-25 M 1433 1-91 ) 2038 4-50		<b>25</b> 0351 5-13 1011 1-10 Tu 1604 5-16 2242 0-61	
<b>2</b> 0329 1-51 0941 4-07 Su 1543 2-22 2154 4-29		<b>10</b> 0333 4-68 0940 1-37 M 1541 4-82 2204 1-25		<b>18</b> 0319 1-42 0939 4-22 Tu 1539 1-94 2143 4-50		<b>26</b> 0442 5-08 1056 1-18 W 1649 5-16 2330 0-61	
<b>3</b> 0436 1-61 1048 4-03 M 1656 2-21 2302 4-26		<b>11</b> 0410 4-68 1012 1-38 Tu 1614 4-84 2239 1-20		<b>19</b> 0425 1-41 1045 4-28 W 1649 1-87 2250 4-55		<b>27</b> 0531 4-95 1138 1-31 Th 1735 5-09	
<b>4</b> 0540 1-63 1148 4-10 Tu 1758 2-10		<b>12</b> 0446 4-66 1048 1-43 W 1649 4-83 2317 1-18		<b>20</b> 0533 1-35 1149 4-41 Th 1759 1-71 2358 4-67		<b>28</b> 0016 0-71 0618 4-76 F 1220 1-48 1820 4-95	
<b>5</b> 0001 4-31 0632 1-60 W 1240 4-23 1851 1-94		<b>13</b> 0524 4-61 1124 1-49 Th 1724 4-79 2356 1-21		<b>21</b> 0639 1-25 1249 4-59 F 1904 1-47		<b>29</b> 0101 0-91 0705 4-53 Sa 1301 1-65 1907 4-77	
<b>6</b> 0053 4-40 0715 1-54 Th 1322 4-39 1935 1-76		<b>14</b> 0605 4-52 1202 1-59 F 1805 4-72		<b>22</b> 0103 4-83 0738 1-16 Sa 1342 4-78 2003 1-20		<b>30</b> 0146 1-15 0753 4-31 Su 1345 1-84 1957 4-56	
<b>7</b> 0138 4-49 0753 1-47 F 1402 4-54 2016 1-59		<b>15</b> 0039 1-26 0650 4-42 Sa 1246 1-70 1849 4-64		<b>23</b> 0202 4-98 0831 1-09 Su 1431 4-96 2058 0-93		<b>31</b> 0233 1-42 0844 4-11 M 1433 2-02 ( 2052 4-34	
<b>8</b> 0219 4-58 0830 1-41 Sa 1437 4-67 2054 1-45		<b>16</b> 0126 1-33 0739 4-32 Su 1335 1-82 1941 4-56		<b>24</b> 0258 5-09 0923 1-07 M 1519 5-09 ○ 2151 0-72			

## SUNRISE AND SUNSET TIMES

TIMES IN GMT

NORTH SHIELDS

YEAR 2007

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

Times computed for an observer at mean sea level

# SUNRISE AND SUNSET TIMES

TIMES IN GMT

NORTH SHIELDS

YEAR 2007

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

Times computed for an observer at mean sea level

# SUNRISE AND SUNSET TIMES

TIMES IN GMT

NORTH SHIELDS

YEAR 2007

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

Times computed for an observer at mean sea level

# SUNRISE AND SUNSET TIMES

TIMES IN GMT

NORTH SHIELDS

YEAR 2007

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

Times computed for an observer at mean sea level

