

EA-SOUTHWEST Box 7



ENVIRONMENT  
AGENCY

## **NORTH WESSEX AREA**

### **Tide Table 2004**

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Ilfracombe

Porlock Bay

Minehead

Hinkley Point

Bridgwater

Burnham-on-Sea

Weston-Super-Mare

Clevedon

Avonmouth

Bristol (Cumberland Basin Ent)

ENVIRONMENT AGENCY



109098

Tide heights are given in metres relative to Ordnance Datum (Newlyn). Tide times are to GMT (add 1 hour if BST : 28 March 2004 to 31 October 2004 inclusive).

Phases of the moon :    ● = new moon    ☾ = first quarter  
                                 ○ = full moon    ☾ = last quarter

#### LOCAL DATUM

For tide heights to local chart datum at :

|                                |                |
|--------------------------------|----------------|
| Ilfracombe                     | add 4.80m      |
| Porlock Bay                    | add 5.20m      |
| Minehead                       | add 5.40m      |
| Hinkley Point                  | add 5.90m      |
| Bridgwater                     | subtract 1.50m |
| Bumham-on-Sea                  | add 5.13m      |
| Weston-Super-Mare              | add 6.00m      |
| Clevedon                       | add 6.50m      |
| Avonmouth                      | add 6.50m      |
| Bristol (Cumberland Basin Ent) | add 3.35m      |

#### HINKLEY POINT DATA

|                           |          |
|---------------------------|----------|
| Highest Astronomical Tide | 7.13mAOD |
| Mean High Water Springs   | 5.59mAOD |
| Mean High Water Neaps     | 2.78mAOD |

#### PARRETT BORE

When low freshwater flows coincide with spring tides, a bore runs up the R.Parrett on the incoming tide. It passes Bridgwater Dock 1hr 37min before predicted high water at Bridgwater.

#### NOTABLE EVENTS AT BRIDGWATER

| <u>Year</u> | <u>Predicted</u> | <u>Actual</u> |
|-------------|------------------|---------------|
| 1936        | 5.7              | 7.8           |
| 1974        | 6.9              | 7.9           |
| 1981        | 6.5              | 7.9           |
| 1995 (Feb)  | 6.4              | 7.7           |

All predictions and Hinkley Point data above are derived from 'POLTIPS for Windows', Proudman Oceanographic Laboratory Tidal Prediction Software. Copyright reserved on all predictions.

# ILFRACOMBE

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| January |      |       | February |      |       |
|---------|------|-------|----------|------|-------|
|         | Time | m     |          | Time | m     |
| 1       | 0033 | 2.18  | 1        | 0142 | 1.77  |
| Th      | 0642 | -1.87 | Su       | 0800 | -1.38 |
|         | 1308 | 2.43  |          | 1425 | 1.80  |
|         | 1916 | -1.82 |          | 2033 | -1.68 |
| 2       | 0140 | 2.18  | 2        | 0301 | 2.05  |
| F       | 0751 | -1.70 | M        | 0914 | -1.70 |
|         | 1413 | 2.43  |          | 1536 | 2.24  |
|         | 2020 | -1.91 |          | 2139 | -1.97 |
| 3       | 0245 | 2.35  | 3        | 0402 | 2.53  |
| Sa      | 0853 | -1.89 | Tu       | 1010 | -2.16 |
|         | 1512 | 2.81  |          | 1830 | 2.71  |
|         | 2118 | -2.14 |          | 2229 | -2.43 |
| 4       | 0339 | 2.87  | 4        | 0449 | 3.03  |
| Su      | 0945 | -2.18 |          | 1050 | -2.63 |
|         | 1604 | 2.87  |          | 1714 | 3.15  |
|         | 2204 | -2.43 |          | 2310 | -2.87 |
| 5       | 0428 | 3.02  | 5        | 0529 | 3.46  |
| M       | 1030 | -2.49 | Th       | 1134 | -3.02 |
|         | 1849 | 3.15  |          | 1752 | 3.51  |
|         | 2247 | -2.72 |          | 2347 | -3.23 |
| 6       | 0507 | 3.34  | 6        | 0606 | 3.80  |
| Tu      | 1110 | -2.78 |          | 1209 | -3.35 |
|         | 1730 | 3.39  |          | 1829 | 3.79  |
|         | 2325 | -2.93 |          |      |       |
| 7       | 0545 | 3.59  | 7        | 0622 | -3.53 |
| W       | 1148 | -2.97 |          | 0842 | 4.05  |
|         | 1807 | 3.55  |          | 1245 | -3.80 |
|         |      |       |          | 1903 | 4.00  |
| 8       | 0602 | -3.13 | 8        | 0657 | -3.74 |
| Th      | 0821 | 3.78  |          | 0717 | 4.23  |
|         | 1223 | -3.12 |          | 1319 | -3.77 |
|         | 1843 | 3.85  |          | 1939 | 4.12  |
| 9       | 0638 | -3.24 | 9        | 0133 | -3.88 |
| F       | 0855 | 3.85  |          | 0782 | 4.32  |
|         | 1258 | -3.21 |          | 1354 | -3.83 |
|         | 1918 | 3.70  |          | 2014 | 4.12  |
| 10      | 0111 | -3.30 | 10       | 0209 | -3.83 |
| Sa      | 0730 | 3.88  |          | 0829 | 4.27  |
|         | 1333 | -3.24 |          | 1430 | -3.73 |
|         | 1954 | 3.85  |          | 2051 | 3.98  |
| 11      | 0147 | -3.28 | 11       | 0244 | -3.85 |
| Su      | 0806 | 3.83  |          | 0906 | 4.07  |
|         | 1409 | -3.20 |          | 1505 | -3.48 |
|         | 2030 | 3.59  |          | 2128 | 3.88  |
| 12      | 0223 | -3.19 | 12       | 0321 | -3.32 |
| M       | 0645 | 3.74  |          | 0948 | 3.72  |
|         | 1447 | -3.09 |          | 1542 | -3.10 |
|         | 2109 | 3.42  |          | 2209 | 3.27  |
| 13      | 0302 | -3.01 | 13       | 0402 | -2.88 |
| Tu      | 0928 | 3.86  |          | 1031 | 3.28  |
|         | 1527 | -2.90 |          | 1627 | -2.83 |
|         | 2151 | 3.18  |          | 2300 | 2.80  |
| 14      | 0344 | -2.78 | 14       | 0458 | -2.40 |
| W       | 1011 | 3.32  |          | 1128 | 2.78  |
|         | 1612 | -2.66 |          | 1730 | -2.12 |
|         | 2239 | 2.91  |          |      |       |
| 15      | 0433 | -2.80 | 15       | 0007 | 2.30  |
| Th      | 1103 | 3.08  |          | 0615 | -1.99 |
|         | 1708 | -2.42 |          | 1248 | 2.38  |
|         | 2338 | 2.67  |          | 1901 | -1.82 |
| 16      | 0535 | -2.28 | 16       | 0136 | 2.28  |
| F       | 1206 | 2.85  |          | 0753 | -1.98 |
|         | 1814 | -2.23 |          | 1421 | 2.37  |
|         |      |       |          | 2044 | -2.01 |
| 17      | 0645 | 2.66  | 17       | 0307 | 2.68  |
| Sa      | 0890 | -2.16 |          | 0924 | -2.40 |
|         | 1318 | 2.78  |          | 1547 | 2.84  |
|         | 1933 | -2.21 |          | 2202 | -2.68 |
| 18      | 0702 | 2.89  | 18       | 0418 | 3.32  |
| Su      | 0810 | -2.31 |          | 1030 | -3.03 |
|         | 1436 | 2.93  |          | 1651 | 3.48  |
|         | 2052 | -2.45 |          | 2258 | -3.20 |
| 19      | 0317 | 3.07  | 19       | 0515 | 3.98  |
| M       | 0926 | -2.58 |          | 1124 | -3.60 |
|         | 1548 | 3.29  |          | 1742 | 3.68  |
|         | 2203 | -2.85 |          | 2345 | -3.89 |
| 20      | 0422 | 3.58  | 20       | 0622 | 4.43  |
| Tu      | 1031 | -3.18 |          | 1209 | -3.99 |
|         | 1652 | 3.71  |          | 1828 | 4.31  |
|         | 2302 | -3.29 |          |      |       |
| 21      | 0516 | 4.07  | 21       | 0727 | -4.01 |
| W       | 1127 | -3.59 |          | 0845 | 4.59  |
|         | 1747 | 4.08  |          | 1249 | -4.19 |
|         | 2353 | -3.84 |          | 1908 | 4.45  |
| 22      | 0610 | 4.44  | 22       | 0105 | -4.13 |
| Th      | 1218 | -3.90 |          | 0724 | 4.74  |
|         | 1838 | 4.31  |          | 1325 | -4.19 |
|         |      |       |          | 1942 | 4.40  |
| 23      | 0640 | -3.88 | 23       | 0139 | -4.08 |
| F       | 0858 | 4.84  |          | 0800 | 4.59  |
|         | 1305 | -4.03 |          | 1357 | -4.03 |
|         | 1922 | 4.37  |          | 2015 | 4.20  |
| 24      | 0124 | -3.90 | 24       | 0209 | -3.83 |
| Sa      | 0742 | 4.65  |          | 0833 | 4.29  |
|         | 1346 | -3.98 |          | 1477 | -3.72 |
|         | 2003 | 4.25  |          | 2045 | 3.86  |
| 25      | 0203 | -3.77 | 25       | 0236 | -3.48 |
| Su      | 0824 | 4.47  |          | 0803 | 3.85  |
|         | 1427 | -3.78 |          | 1454 | -3.30 |
|         | 2044 | 3.98  |          | 2113 | 3.44  |
| 26      | 0230 | -3.49 | 26       | 0302 | -3.03 |
| M       | 0903 | 4.14  |          | 0933 | 3.33  |
|         | 1502 | -3.41 |          | 1521 | -2.81 |
|         | 2120 | 3.59  |          | 2143 | 2.94  |
| 27      | 0312 | -3.11 | 27       | 0330 | -2.50 |
| Tu      | 0941 | 3.89  |          | 1006 | 2.74  |
|         | 1535 | -2.90 |          | 1553 | -2.28 |
|         | 2155 | 3.14  |          | 2217 | 2.40  |
| 28      | 0345 | -2.88 | 28       | 0408 | -1.91 |
| W       | 1018 | 3.17  |          | 1047 | 2.13  |
|         | 1610 | -2.83 |          | 1636 | -1.88 |
|         | 2233 | 2.87  |          | 2308 | 1.83  |
| 29      | 0423 | -2.20 | 29       | 0510 | -1.32 |
| Th      | 1100 | 2.65  |          | 1151 | 1.80  |
|         | 1654 | -2.05 |          | 1800 | -1.17 |
|         | 2318 | 2.21  |          |      |       |
| 30      | 0518 | -1.72 | 30       | 0615 | -1.99 |
| F       | 1154 | 2.17  |          | 1248 | 2.38  |
|         | 1754 | -1.84 |          | 1901 | -1.82 |
| 31      | 0621 | 1.85  |          |      |       |
| Sa      | 0833 | -1.38 |          |      |       |
|         | 1304 | 1.87  |          |      |       |
|         | 1914 | -1.44 |          |      |       |

## ILFRACOMBE

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| March |      |       | April |      |       |
|-------|------|-------|-------|------|-------|
| Time  | m    |       | Time  | m    |       |
| 1     | 0030 | 1.47  | 1     | 0251 | 2.02  |
| M     | 0704 | -1.06 | Th    | 0909 | -1.83 |
|       | 1330 | 1.41  |       | 1529 | 2.27  |
|       | 1949 | -1.10 |       | 2130 | -3.16 |
| 2     | 0218 | 1.80  | 2     | 0348 | 2.78  |
| Tu    | 0842 | -1.38 | F     | 0959 | -2.64 |
|       | 1503 | 1.78  |       | 1618 | 3.01  |
|       | 2110 | -1.83 |       | 2215 | -3.89 |
| 3     | 0333 | 2.18  | 3     | 0433 | 3.44  |
| W     | 0947 | -1.99 | Sa    | 1040 | -3.28 |
|       | 1606 | 2.42  |       | 1658 | 3.68  |
|       | 2206 | -2.27 |       | 2255 | -3.50 |
| 4     | 0425 | 2.68  | 4     | 0512 | 4.02  |
| Th    | 1033 | -2.82 | Sa    | 1118 | -3.80 |
|       | 1651 | 3.05  |       | 1738 | 4.17  |
|       | 2248 | -2.68 |       | 2333 | -3.98 |
| 5     | 0508 | 3.44  | 5     | 0551 | 4.48  |
| F     | 1112 | -3.16 | M     | 1155 | -4.17 |
|       | 1730 | 3.59  | O     | 1814 | 4.85  |
|       | 2326 | -3.41 |       |      |       |
| 6     | 0544 | 3.92  |       | 0011 | -4.31 |
| Sa    | 1148 | -3.83 | Tu    | 0629 | 4.78  |
| O     | 1808 | 4.02  |       | 1233 | -4.39 |
|       |      |       |       | 1851 | 4.75  |
| 7     | 0601 | -3.83 | 7     | 0648 | -4.46 |
| Su    | 0820 | 4.30  | W     | 0708 | 4.87  |
|       | 1223 | -3.88 |       | 1309 | -4.39 |
|       | 1842 | 4.34  |       | 1928 | 4.76  |
| 8     | 0636 | -4.13 | 8     | 0127 | -4.39 |
| M     | 0835 | 4.57  | Th    | 0748 | 4.74  |
|       | 1258 | -4.21 |       | 1346 | -4.17 |
|       | 1917 | 4.53  |       | 2008 | 4.84  |
| 9     | 0112 | -4.29 | 9     | 0204 | -4.09 |
| Tu    | 0731 | 4.70  | F     | 0826 | 4.38  |
|       | 1333 | -4.28 |       | 1423 | -3.73 |
|       | 1952 | 4.85  |       | 2043 | 4.10  |
| 10    | 0148 | -4.26 | 10    | 0244 | -3.86 |
| W     | 0808 | 4.84  | Sa    | 0907 | 3.79  |
|       | 1408 | -4.11 |       | 1502 | -3.12 |
|       | 2028 | 4.37  |       | 2129 | 3.49  |
| 11    | 0223 | -4.02 | 11    | 0329 | -2.94 |
| Th    | 0845 | 4.36  | Su    | 0956 | 3.07  |
|       | 1442 | -3.75 |       | 1550 | -2.42 |
|       | 2105 | 3.90  |       | 2224 | 2.82  |
| 12    | 0289 | -3.59 | 12    | 0431 | -2.27 |
| F     | 0924 | 3.87  | M     | 1100 | 2.38  |
|       | 1518 | -3.22 | C     | 1704 | -1.78 |
|       | 2148 | 3.45  |       | 2342 | 2.29  |
| 13    | 0339 | -3.01 | 13    | 0607 | -1.85 |
| Sa    | 1008 | 3.23  | Tu    | 1233 | 1.87  |
| C     | 1801 | -2.68 |       | 1857 | -1.58 |
|       | 2233 | 2.82  |       |      |       |
| 14    | 0433 | -2.33 |       | 0124 | 2.28  |
| Su    | 1108 | 2.52  | 14    | 0751 | -2.02 |
|       | 1708 | -1.90 | W     | 1414 | 2.22  |
|       | 2345 | 2.25  |       | 2034 | -2.01 |
| 15    | 0802 | -1.82 | 15    | 0249 | 2.80  |
| M     | 1233 | 2.01  | Th    | 0907 | -2.57 |
|       | 1854 | -1.54 |       | 1527 | 2.84  |
|       |      |       |       | 2138 | -2.87 |
| 16    | 0128 | 2.10  |       |      |       |
| Tu    | 0794 | -1.84 |       |      |       |
|       | 1422 | 2.12  |       |      |       |
|       | 2046 | -1.88 |       |      |       |
| 17    | 0305 | 2.01  |       |      |       |
| W     | 0923 | -2.43 |       |      |       |
|       | 1545 | 2.78  |       |      |       |
|       | 2157 | -2.99 |       |      |       |
| 18    | 0412 | 3.38  |       |      |       |
| Th    | 1024 | -3.12 |       |      |       |
|       | 1642 | 3.48  |       |      |       |
|       | 2248 | -3.28 |       |      |       |
| 19    | 0502 | 4.00  |       |      |       |
| F     | 1109 | -3.67 |       |      |       |
|       | 1727 | 3.98  |       |      |       |
|       | 2329 | -3.74 |       |      |       |
| 20    | 0545 | 4.41  |       |      |       |
| Sa    | 1148 | -4.01 |       |      |       |
|       | 1806 | 4.28  |       |      |       |
| 21    | 0608 | -4.03 |       |      |       |
| Su    | 0623 | 4.60  |       |      |       |
|       | 1224 | -4.17 |       |      |       |
|       | 1841 | 4.40  |       |      |       |
| 22    | 0639 | -4.13 |       |      |       |
| M     | 0857 | 4.82  |       |      |       |
|       | 1255 | -4.17 |       |      |       |
|       | 1912 | 4.38  |       |      |       |
| 23    | 0109 | -4.08 |       |      |       |
| Tu    | 0730 | 4.48  |       |      |       |
|       | 1324 | -4.04 |       |      |       |
|       | 1942 | 4.24  |       |      |       |
| 24    | 0137 | -3.88 |       |      |       |
| W     | 0800 | 4.23  |       |      |       |
|       | 1352 | -3.77 |       |      |       |
|       | 2010 | 3.97  |       |      |       |
| 25    | 0203 | -3.58 |       |      |       |
| Th    | 0827 | 3.85  |       |      |       |
|       | 1417 | -3.38 |       |      |       |
|       | 2036 | 3.59  |       |      |       |
| 26    | 0227 | -3.13 |       |      |       |
| F     | 0836 | 3.38  |       |      |       |
|       | 1442 | -2.81 |       |      |       |
|       | 2103 | 3.12  |       |      |       |
| 27    | 0252 | -2.82 |       |      |       |
| Sa    | 0924 | 2.79  |       |      |       |
|       | 1509 | -2.38 |       |      |       |
|       | 2133 | 2.50  |       |      |       |
| 28    | 0324 | -2.04 |       |      |       |
| Su    | 1000 | 2.18  |       |      |       |
|       | 1546 | -1.78 |       |      |       |
|       | 2215 | 2.01  |       |      |       |
| 29    | 0414 | -1.43 |       |      |       |
| M     | 1058 | 1.88  |       |      |       |
|       | 1634 | -1.17 |       |      |       |
|       | 2329 | 1.62  |       |      |       |
| 30    | 0508 | -1.03 |       |      |       |
| Tu    | 1234 | -1.57 |       |      |       |
|       | 1859 | -1.01 |       |      |       |
| 31    | 0121 | 1.48  |       |      |       |
| W     | 0759 | -1.28 |       |      |       |
|       | 1420 | 1.88  |       |      |       |
|       | 2030 | -1.48 |       |      |       |



## ILFRACOMBE

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| July        |                                                    |               | August                                             |              |                                                    |
|-------------|----------------------------------------------------|---------------|----------------------------------------------------|--------------|----------------------------------------------------|
| Time        | m                                                  |               | Time                                               | m            |                                                    |
| 1<br>Th     | 0427 3.77<br>1035 -3.40<br>1857 4.01<br>2302 -3.83 | 16<br>F       | 0515 3.09<br>1109 -2.83<br>1731 3.35<br>2333 -2.89 | 1<br>Su      | 0612 4.21<br>1218 -3.87<br>1834 4.63               |
| 2<br>F<br>O | 0624 4.08<br>1130 -3.87<br>1780 4.33<br>2357 -3.89 | 17<br>Sa<br>● | 0654 3.30<br>1147 -3.04<br>1808 3.55               | 2<br>M       | 0042 4.14<br>0700 4.40<br>1302 -4.03<br>1921 4.77  |
| 3<br>Sa     | 0618 4.29<br>1223 -3.83<br>1842 4.52               | 18<br>Su      | 0009 -3.07<br>0631 3.44<br>1222 -3.19<br>1843 3.67 | 3<br>Tu      | 0128 -4.21<br>0745 4.40<br>1345 -4.01<br>2005 4.69 |
| 4<br>Su     | 0051 -4.02<br>0710 4.29<br>1313 -3.85<br>1933 4.56 | 19<br>M       | 0048 -3.20<br>0708 3.52<br>1257 -3.29<br>1915 3.74 | 4<br>W       | 0210 -4.07<br>0825 4.22<br>1424 -3.80<br>2048 4.43 |
| 5<br>M      | 0142 -4.00<br>0800 4.19<br>1401 -3.73<br>2021 4.42 | 20<br>Tu      | 0119 -3.27<br>0740 3.55<br>1332 -3.32<br>1952 3.78 | 5<br>Th      | 0248 -3.78<br>0904 3.56<br>1459 -3.43<br>2124 4.00 |
| 6<br>Tu     | 0220 -3.82<br>0847 3.95<br>1447 -3.48<br>2109 4.15 | 21<br>W       | 0154 -3.28<br>0815 3.53<br>1406 -3.28<br>2026 3.71 | 6<br>F       | 0331 -3.32<br>0940 3.43<br>1531 -2.97<br>2202 3.46 |
| 7<br>W      | 0317 -3.81<br>0833 3.59<br>1531 -3.13<br>2157 3.78 | 22<br>Th      | 0230 -3.21<br>0851 3.42<br>1442 -3.15<br>2108 3.58 | 7<br>Sa<br>● | 0354 -2.82<br>1018 2.94<br>1608 -2.46<br>2242 2.86 |
| 8<br>Th     | 0401 -3.12<br>1018 3.10<br>1615 -2.74<br>2245 3.34 | 23<br>F       | 0305 -3.06<br>0928 3.24<br>1519 -2.84<br>2145 3.36 | 8<br>Su      | 0433 -2.29<br>1058 2.43<br>1652 -1.83<br>2330 2.33 |
| 9<br>F      | 0448 -2.71<br>1108 2.78<br>1704 -2.35<br>2335 2.92 | 24<br>Sa      | 0344 -2.65<br>1010 3.00<br>1601 -2.66<br>2230 3.13 | 9<br>M       | 0526 -1.80<br>1184 2.00<br>1802 -1.48              |
| 10<br>Sa    | 0537 -2.34<br>1159 2.44<br>1803 -2.00              | 25<br>Su      | 0428 -2.69<br>1059 2.78<br>1853 -2.40<br>2324 2.88 | 10<br>Tu     | 0035 1.91<br>0642 -1.47<br>1312 1.78<br>1932 -1.34 |
| 11<br>Su    | 0032 2.57<br>0636 -2.07<br>1300 2.23<br>1911 -1.86 | 26<br>M       | 0526 -2.33<br>1200 2.84<br>1801 -2.19              | 11<br>W      | 0158 1.81<br>0806 -1.49<br>1437 1.96<br>2053 -1.59 |
| 12<br>M     | 0138 2.38<br>0741 -1.97<br>1408 2.23<br>2018 -1.89 | 27<br>Tu      | 0030 2.87<br>0840 -2.18<br>1314 2.51<br>1921 -2.18 | 12<br>Th     | 0318 2.06<br>0918 -1.83<br>1545 2.42<br>2153 -2.05 |
| 13<br>Tu    | 0241 2.39<br>0844 -2.07<br>1511 2.43<br>2118 -2.08 | 28<br>W       | 0148 2.87<br>0803 -2.26<br>1433 2.78<br>2043 -2.46 | 13<br>F      | 0414 2.54<br>1011 -2.30<br>1634 2.93<br>2236 -2.62 |
| 14<br>W     | 0340 2.58<br>0939 -2.29<br>1605 2.75<br>2209 -2.38 | 29<br>Th      | 0309 2.94<br>0923 -2.81<br>1546 3.25<br>2157 -2.94 | 14<br>Sa     | 0500 3.00<br>1053 -2.74<br>1715 3.36<br>2318 -2.82 |
| 15<br>Th    | 0431 2.84<br>1027 -2.57<br>1651 3.08<br>2254 -2.05 | 30<br>F       | 0419 3.39<br>1030 -3.09<br>1649 3.61<br>2258 -3.45 | 15<br>Su     | 0536 3.37<br>1130 -3.11<br>1751 3.69<br>2354 -3.24 |
|             |                                                    | 31<br>Sa<br>O | 0519 3.88<br>1128 -3.54<br>1744 4.30<br>2353 -3.88 |              |                                                    |
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## ILFRACOMBE

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| September |      |       | October |      |       |
|-----------|------|-------|---------|------|-------|
|           | Time | m     |         | Time | m     |
| 1         | 0105 | -4.28 | 1       | 0108 | -3.98 |
| W         | 0721 | 4.67  |         | 0724 | 4.39  |
|           | 1319 | -4.15 |         | 1318 | -3.80 |
|           | 1939 | 4.81  |         | 1942 | 4.39  |
| 2         | 0140 | -4.14 | 2       | 0135 | -3.88 |
| Th        | 0757 | 4.39  |         | 0783 | 4.08  |
|           | 1352 | -3.82 | Se      | 1346 | -3.43 |
|           | 2015 | 4.50  |         | 2012 | 3.97  |
| 3         | 0211 | -3.81 | 3       | 0201 | -3.28 |
| F         | 0829 | 4.08  |         | 0821 | 3.69  |
|           | 1421 | -3.53 | Su      | 1411 | -2.88 |
|           | 2048 | 4.04  |         | 2040 | 3.44  |
| 4         | 0230 | -3.38 | 4       | 0228 | -2.78 |
| Se        | 0850 | 3.80  |         | 0849 | 3.19  |
|           | 1448 | -3.04 | M       | 1437 | -2.42 |
|           | 2118 | 3.48  |         | 2110 | 2.84  |
| 5         | 0308 | -2.82 | 5       | 0254 | -2.19 |
| Su        | 0929 | 3.07  |         | 0920 | 2.64  |
|           | 1515 | -2.47 | Tu      | 1509 | -1.82 |
|           | 2131 | 2.85  |         | 2143 | 2.21  |
| 6         | 0336 | -2.24 | 6       | 0329 | -1.57 |
| M         | 1003 | 2.81  |         | 1002 | 2.05  |
| T         | 1551 | -1.88 | W       | 1558 | -1.18 |
|           | 2230 | 2.21  |         | 2242 | 1.89  |
| 7         | 0418 | -1.82 | 7       | 0438 | -0.87 |
| Tu        | 1049 | 1.94  |         | 1117 | 1.55  |
|           | 1650 | -1.24 | Th      | 1801 | -0.79 |
|           | 2333 | 1.83  |         |      |       |
| 8         | 0538 | -1.08 | 8       | 0524 | 1.28  |
| W         | 1212 | 1.82  |         | 0848 | -0.81 |
|           | 1849 | -0.83 | F       | 1314 | 1.84  |
|           |      |       |         | 1933 | -1.09 |
| 9         | 0114 | 1.40  | 9       | 0210 | 1.80  |
| Th        | 0733 | -1.03 |         | 0820 | -1.28 |
|           | 1403 | 1.63  | Se      | 1441 | 2.10  |
|           | 2030 | -1.25 |         | 2100 | -1.73 |
| 10        | 0251 | 1.78  | 10      | 0317 | 2.28  |
| F         | 0858 | -1.49 |         | 0917 | -1.98 |
|           | 1521 | 2.22  | Su      | 1535 | 2.81  |
|           | 2134 | -1.87 |         | 2148 | -2.42 |
| 11        | 0353 | 2.40  | 11      | 0402 | 2.98  |
| Se        | 0950 | -2.13 |         | 1000 | -2.65 |
|           | 1612 | 2.68  | M       | 1817 | 3.48  |
|           | 2219 | -2.50 |         | 2224 | -3.02 |
| 12        | 0437 | 3.02  | 12      | 0441 | 3.61  |
| Su        | 1031 | -2.73 |         | 1038 | -3.22 |
|           | 1651 | 3.45  | Tu      | 1654 | 3.98  |
|           | 2258 | -3.03 |         | 2259 | -3.50 |
| 13        | 0514 | 3.83  | 13      | 0517 | 4.09  |
| M         | 1107 | -3.23 |         | 1112 | -3.86 |
|           | 1727 | 3.90  | W       | 1730 | 4.39  |
|           | 2330 | -3.44 |         | 2333 | -3.83 |
| 14        | 0648 | 3.93  | 14      | 0652 | 4.43  |
| Tu        | 1141 | -3.81 |         | 1147 | -3.95 |
| Th        | 1801 | 4.23  | Th      | 1808 | 4.85  |
|           |      |       |         |      |       |
| 15        | 0003 | -3.74 | 15      | 0008 | -4.02 |
| W         | 0621 | 4.21  |         | 0827 | 4.83  |
|           | 1215 | -3.87 |         | 1223 | -4.08 |
|           | 1834 | 4.45  |         | 1843 | 4.78  |
| 16        | 0038 | -3.93 | 16      | 0043 | -4.04 |
| Th        | 0655 | 4.38  |         | 0703 | 4.88  |
|           | 1248 | -4.00 |         | 1259 | -4.03 |
|           | 1909 | 4.57  |         | 1820 | 4.87  |
| 17        | 0109 | -3.88 | 17      | 0119 | -3.87 |
| F         | 0729 | 4.42  |         | 0740 | 4.49  |
|           | 1322 | -3.98 | Su      | 1338 | -3.78 |
|           | 1943 | 4.63  |         | 1958 | 4.37  |
| 18        | 0142 | -3.86 | 18      | 0156 | -3.48 |
| Se        | 0803 | 4.29  |         | 0819 | 4.12  |
|           | 1356 | -3.77 | M       | 1415 | -3.33 |
|           | 2018 | 4.29  |         | 2040 | 3.85  |
| 19        | 0215 | -3.55 | 19      | 0233 | -2.95 |
| Su        | 0838 | 3.97  |         | 0901 | 3.68  |
|           | 1430 | -3.38 | Tu      | 1500 | -2.74 |
|           | 2055 | 3.87  |         | 2127 | 3.19  |
| 20        | 0248 | -3.08 | 20      | 0320 | -2.30 |
| M         | 0918 | 3.48  |         | 0954 | 2.88  |
|           | 1508 | -2.84 | W       | 1600 | -2.11 |
|           | 2137 | 3.29  |         | 2228 | 2.81  |
| 21        | 0328 | -2.48 | 21      | 0430 | -1.88 |
| Tu        | 1002 | 2.91  |         | 1109 | 2.44  |
|           | 1558 | -2.21 | Th      | 1738 | -1.68 |
|           | 2230 | 2.82  |         | 2357 | 2.88  |
| 22        | 0428 | -1.82 | 22      | 0623 | -1.41 |
| W         | 1108 | 2.34  |         | 1249 | 2.37  |
|           | 1722 | -1.65 | F       | 1921 | -1.81 |
|           | 2352 | 2.07  |         |      |       |
| 23        | 0612 | -1.38 | 23      | 0139 | 2.28  |
| Th        | 1248 | 2.12  |         | 0804 | -1.81 |
|           | 1920 | -1.82 | Se      | 1418 | 2.68  |
|           |      |       |         | 2040 | -2.38 |
| 24        | 0142 | 2.07  | 24      | 0257 | 2.88  |
| F         | 0812 | -1.88 |         | 0911 | -2.48 |
|           | 1430 | 2.58  | Su      | 1522 | 3.84  |
|           | 2053 | -2.21 |         | 2138 | -3.00 |
| 25        | 0313 | 2.71  | 25      | 0342 | 3.82  |
| Se        | 0928 | -2.39 |         | 1000 | -3.08 |
|           | 1542 | 3.38  | M       | 1612 | 4.09  |
|           | 2158 | -2.97 |         | 2221 | -3.48 |
| 26        | 0414 | 3.47  | 26      | 0437 | 3.99  |
| Su        | 1021 | -3.13 |         | 1041 | -3.49 |
|           | 1635 | 4.10  | Tu      | 1654 | 4.41  |
|           | 2244 | -3.59 |         | 2259 | -3.72 |
| 27        | 0501 | 4.07  | 27      | 0515 | 4.24  |
| M         | 1104 | -3.87 |         | 1118 | -3.70 |
|           | 1719 | 4.58  | W       | 1733 | 4.52  |
|           | 2325 | -3.99 |         | 2333 | -3.81 |
| 28        | 0642 | 4.43  | 28      | 0550 | 4.34  |
| Tu        | 1142 | -3.99 |         | 1148 | -3.78 |
| O         | 1759 | 4.82  | Th      | 1807 | 4.80  |
|           |      |       |         |      |       |
| 29        | 0001 | -4.18 | 29      | 0004 | -3.79 |
| W         | 0818 | 4.57  |         | 0622 | 4.33  |
|           | 1217 | -4.10 | F       | 1220 | -3.89 |
|           | 1838 | 4.84  |         | 1840 | 4.38  |
| 30        | 0035 | -4.15 | 30      | 0035 | -3.87 |
| Th        | 0652 | 4.55  |         | 0653 | 4.23  |
|           | 1249 | -4.03 | Se      | 1248 | -3.51 |
|           | 1910 | 4.88  |         | 1912 | 4.13  |
|           |      |       | 31      | 0104 | -3.43 |
|           |      |       |         | 0723 | 4.01  |
|           |      |       |         | 1318 | -3.22 |
|           |      |       |         | 1942 | 3.80  |

# ILFRACOMBE

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| November |      |       |    | December |       |    |      |       |    |      |       |
|----------|------|-------|----|----------|-------|----|------|-------|----|------|-------|
|          | Time | m     |    |          | Time  | m  |      |       |    |      |       |
| 1        | 0132 | -3.10 | 16 | 0148     | -3.43 | 1  | 0145 | -2.72 | 16 | 0234 | -3.28 |
| M        | 0762 | 3.69  | Tu | 0806     | 4.22  | W  | 0806 | 3.37  | Th | 0857 | 4.14  |
|          | 1345 | -2.83 |    | 1412     | -3.35 |    | 1404 | -2.51 |    | 1507 | -3.30 |
|          | 2012 | 3.36  |    | 2035     | 3.84  |    | 2030 | 2.99  |    | 2125 | 3.62  |
| 2        | 0159 | -2.67 | 17 | 0233     | -2.94 | 2  | 0217 | -2.40 | 17 | 0325 | -2.90 |
| Tu       | 0822 | 3.27  | W  | 0858     | 3.75  | Th | 0842 | 3.04  | F  | 0951 | 3.77  |
|          | 1414 | -2.38 |    | 1905     | -2.85 |    | 1440 | -2.19 |    | 1802 | -2.93 |
|          | 2044 | 2.86  |    | 2127     | 3.26  |    | 2108 | 2.62  |    | 2218 | 3.20  |
| 3        | 0225 | -2.20 | 18 | 0327     | -2.40 | 3  | 0254 | -2.06 | 18 | 0421 | -2.62 |
| W        | 0854 | 2.70  | Th | 0957     | 3.24  | F  | 0922 | 2.70  | Sa | 1048 | 3.40  |
|          | 1448 | -1.69 |    | 1809     | -2.37 |    | 1524 | -1.86 |    | 1701 | -2.57 |
|          | 2121 | 2.33  |    | 2231     | 2.73  |    | 2162 | 2.26  |    | 2316 | 2.84  |
| 4        | 0304 | -1.69 | 19 | 0435     | -1.94 | 4  | 0341 | -1.73 | 19 | 0525 | -2.22 |
| Th       | 0935 | 2.30  | F  | 1109     | 2.87  | Sa | 1012 | -2.39 |    | 1151 | 3.10  |
|          | 1536 | -1.39 |    | 1730     | -2.07 |    | 1821 | -1.60 | Su | 1806 | -2.32 |
|          | 2212 | 1.83  |    | 2348     | 2.43  |    | 2249 | 2.01  |    |      |       |
| 5        | 0401 | -1.19 | 20 | 0806     | -1.77 | 5  | 0445 | -1.49 | 20 | 0023 | 2.61  |
| F        | 1039 | 1.87  | Sa | 1229     | 2.79  | Su | 1117 | 2.21  | M  | 0536 | -2.08 |
|          | 1706 | -1.03 |    | 1854     | -2.10 |    | 1738 | -1.51 |    | 1257 | 2.93  |
|          | 2333 | 1.82  |    |          |       |    | 2359 | 1.95  |    | 1912 | -2.21 |
| 6        | 0546 | -0.86 | 21 | 0110     | 2.80  | 6  | 0505 | -1.47 | 21 | 0130 | 2.57  |
| Sa       | 1212 | 1.74  | Su | 0731     | -1.98 |    | 1229 | 2.25  | Tu | 0745 | -2.07 |
|          | 1851 | -1.14 |    | 1345     | 3.02  | M  | 1851 | -1.68 |    | 1402 | 2.91  |
|          |      |       |    | 2008     | -2.39 |    |      |       |    | 2014 | -2.25 |
| 7        | 0108 | 1.65  | 22 | 0221     | 2.84  | 7  | 0112 | 2.18  | 22 | 0234 | 2.68  |
| Su       | 0721 | -1.23 | M  | 0837     | -2.38 | Tu | 0719 | -1.74 | W  | 0846 | -2.20 |
|          | 1339 | 2.08  |    | 1448     | 3.38  |    | 1336 | 2.58  |    | 1502 | 3.00  |
|          | 2005 | -1.83 |    | 2103     | -2.74 |    | 1956 | -2.05 |    | 2109 | -2.39 |
| 8        | 0221 | 2.17  | 23 | 0318     | 3.24  | 8  | 0217 | 2.60  | 23 | 0330 | 2.92  |
| M        | 0827 | -1.81 | Tu | 0928     | -2.75 | W  | 0821 | -2.18 | Th | 0838 | -2.40 |
|          | 1442 | 2.87  |    | 1540     | 3.89  |    | 1439 | 3.02  |    | 1654 | 3.15  |
|          | 2058 | -2.25 |    | 2148     | -3.02 |    | 2053 | -2.52 |    | 2157 | -2.57 |
| 9        | 0315 | 2.83  | 24 | 0406     | 3.57  | 9  | 0314 | 3.14  | 24 | 0416 | 3.18  |
| Tu       | 0918 | -2.45 | W  | 1011     | -3.03 | Th | 0818 | -2.68 | F  | 1023 | -2.60 |
|          | 1532 | 3.30  |    | 1825     | 3.88  |    | 1836 | 3.51  |    | 1841 | 3.31  |
|          | 2142 | -2.84 |    | 2228     | -3.20 |    | 2144 | -2.98 |    | 2239 | -2.77 |
| 10       | 0400 | 3.47  | 25 | 0448     | 3.78  | 10 | 0406 | 3.68  | 25 | 0500 | 3.41  |
| W        | 0959 | -3.03 | Th | 1048     | -3.18 | F  | 1008 | -3.15 | Sa | 1103 | -2.78 |
|          | 1815 | 3.87  |    | 1705     | 3.97  |    | 1827 | 3.98  |    | 1723 | 3.45  |
|          | 2223 | -3.33 |    | 2300     | -3.30 |    | 2233 | -3.37 |    | 2318 | -2.94 |
| 11       | 0441 | 4.01  | 26 | 0522     | 3.91  | 11 | 0454 | 4.13  | 26 | 0538 | 3.59  |
| Th       | 1039 | -3.49 | F  | 1122     | -3.25 | Sa | 1055 | -3.53 | Su | 1140 | -2.82 |
|          | 1857 | 4.31  |    | 1742     | 3.98  |    | 1718 | 4.29  |    | 1800 | 3.84  |
|          | 2307 | -3.69 |    | 2337     | -3.34 |    | 2321 | -3.84 |    | 2354 | -3.05 |
| 12       | 0521 | 4.41  | 27 | 0557     | 3.97  | 12 | 0541 | 4.45  | 27 | 0615 | 3.70  |
| F        | 1119 | -3.51 | Sa | 1168     | -3.26 | Su | 1144 | -3.78 | M  | 1215 | -3.01 |
|          | 1739 | 4.59  |    | 1818     | 3.83  |    | 1806 | 4.47  |    | 1836 | 3.58  |
|          | 2342 | -3.80 |    |          |       |    |      |       |    |      |       |
| 13       | 0601 | 4.84  | 28 | 0010     | -3.31 | 13 | 0006 | -3.77 | 28 | 0029 | -3.10 |
| Sa       | 1200 | -3.97 | Su | 0630     | 3.98  | M  | 0628 | 4.61  | Tu | 0548 | 3.74  |
|          | 1820 | 4.70  |    | 1228     | -3.18 |    | 1283 | -3.89 |    | 1250 | -3.03 |
|          |      |       |    | 1850     | 3.81  |    | 1854 | 4.48  |    | 1911 | 3.54  |
| 14       | 0022 | -3.93 | 29 | 0042     | -3.19 | 14 | 0057 | -3.75 | 29 | 0102 | -3.09 |
| Su       | 0842 | 4.70  |    | 0702     | 3.85  | Tu | 0718 | 4.61  | W  | 0723 | 3.89  |
|          | 1242 | -3.95 |    | 1300     | -3.03 |    | 1324 | -3.83 |    | 1323 | -2.98 |
|          | 1903 | 4.91  |    | 1924     | 3.81  |    | 1943 | 4.32  |    | 1945 | 3.44  |
| 15       | 0103 | -3.77 | 30 | 0114     | -2.89 | 15 | 0145 | -3.58 | 30 | 0135 | -3.01 |
| M        | 0724 | -4.58 |    | 0734     | 3.85  | W  | 0806 | 4.44  | Th | 0756 | 3.56  |
|          | 1328 | -3.73 |    | 1332     | -2.80 |    | 1416 | -3.62 |    | 1357 | -2.68 |
|          | 1948 | 4.31  |    | 1957     | 3.33  |    | 2033 | 4.02  |    | 2018 | 3.29  |
|          |      |       |    |          |       |    |      |       | 31 | 0208 | -2.87 |
|          |      |       |    |          |       |    |      |       | F  | 0830 | 3.45  |
|          |      |       |    |          |       |    |      |       |    | 1430 | -2.73 |
|          |      |       |    |          |       |    |      |       |    | 2053 | 3.08  |

# PORLOCK BAY

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| January |      |       | February |      |       |
|---------|------|-------|----------|------|-------|
|         | Time | m     |          | Time | m     |
| 1       | 0048 | 2.60  | 1        | 0148 | 2.12  |
| Th      | 0852 | -1.42 | Bu       | 0807 | -0.88 |
|         | 1323 | 2.76  |          | 1435 | 2.22  |
|         | 1936 | -1.63 |          | 2051 | -1.29 |
| 2       | 0152 | 2.53  | 2        | 0306 | 2.43  |
| F       | 0808 | -1.35 | M        | 0920 | -1.50 |
|         | 1430 | 2.78  |          | 1847 | 2.85  |
|         | 2039 | -1.75 |          | 2141 | -2.06 |
| 3       | 0258 | 2.73  | 3        | 0411 | 3.03  |
| Sa      | 0905 | -1.87 | Tu       | 1003 | -2.33 |
|         | 1530 | 3.01  |          | 1843 | 3.22  |
|         | 2126 | -2.18 |          | 2221 | -2.81 |
| 4       | 0354 | 3.11  | 4        | 0502 | 3.63  |
| Su      | 0948 | -2.20 | W        | 1041 | -2.87 |
|         | 1622 | 3.34  |          | 1729 | 3.73  |
|         | 2206 | -2.86 |          | 2256 | -3.32 |
| 5       | 0442 | 3.54  | 5        | 0544 | 4.10  |
| M       | 1025 | -2.72 | Th       | 1120 | -3.38 |
|         | 1707 | 3.86  |          | 1810 | 4.10  |
|         | 2241 | -3.11 |          | 2337 | -3.81 |
| 6       | 0523 | 3.91  | 6        | 0623 | 4.43  |
| Tu      | 1059 | -3.11 | F        | 1159 | -3.59 |
|         | 1747 | 3.91  | O        | 1846 | 4.39  |
|         | 2318 | -3.41 |          |      |       |
| 7       | 0601 | 4.17  | 7        | 0617 | -3.80 |
| W       | 1134 | -3.33 | Sa       | 0700 | 4.69  |
| O       | 1825 | 4.07  |          | 1239 | -3.78 |
|         | 2351 | -3.64 |          | 1924 | 4.65  |
| 8       | 0638 | 4.33  | 8        | 0657 | -3.87 |
| Th      | 1210 | -3.41 | Su       | 0737 | 4.82  |
|         | 1902 | 4.18  |          | 1321 | -3.86 |
|         |      |       |          | 2001 | 4.84  |
| 9       | 0627 | -3.58 | 9        | 0138 | -4.10 |
| F       | 0714 | 4.44  | M        | 0814 | 5.06  |
|         | 1247 | -3.43 |          | 1403 | -4.04 |
|         | 1938 | 4.27  |          | 2037 | 4.87  |
| 10      | 0104 | -3.53 | 10       | 0219 | -4.07 |
| Sa      | 0750 | 4.51  | Tu       | 0822 | 5.01  |
|         | 1327 | -3.42 |          | 1444 | -3.92 |
|         | 2015 | 4.32  |          | 2114 | 4.87  |
| 11      | 0144 | -3.48 | 11       | 0257 | -3.85 |
| Su      | 0828 | 4.52  | W        | 0929 | 4.73  |
|         | 1408 | -3.38 |          | 1521 | -3.61 |
|         | 2053 | 4.28  |          | 2150 | 4.28  |
| 12      | 0226 | -3.36 | 12       | 0338 | -3.48 |
| M       | 0907 | 4.41  | Th       | 1008 | 4.27  |
|         | 1452 | -3.25 |          | 1559 | -3.19 |
|         | 2132 | 4.06  |          | 2229 | 3.75  |
| 13      | 0310 | -3.17 | 13       | 0420 | -3.03 |
| Tu      | 0948 | 4.17  | F        | 1051 | 3.73  |
|         | 1538 | -3.04 | C        | 1648 | -2.70 |
|         | 2213 | 3.75  |          | 2314 | 3.22  |
| 14      | 0357 | -2.97 | 14       | 0514 | -2.49 |
| W       | 1033 | 3.88  | Sa       | 1145 | 3.18  |
|         | 1830 | -2.77 |          | 1749 | -2.10 |
|         | 2256 | 3.40  |          |      |       |
| 15      | 0453 | -2.81 | 15       | 0621 | 2.75  |
| Th      | 1123 | 3.54  | Su       | 0829 | -1.87 |
| C       | 1729 | -2.49 |          | 1305 | 2.77  |
|         | 2354 | 3.08  |          | 1915 | -1.58 |
| 16      | 0559 | -2.28 | 16       | 0155 | 2.84  |
| F       | 1225 | 3.27  | M        | 0814 | -1.83 |
|         | 1839 | -2.14 |          | 1438 | 2.80  |
|         |      |       |          | 2056 | -1.71 |
| 17      | 0106 | 2.82  | 17       | 0319 | 3.08  |
| Sa      | 0714 | -2.00 | Tu       | 0933 | -2.25 |
|         | 1342 | 3.20  |          | 1600 | 3.29  |
|         | 1957 | -1.86 |          | 2204 | -2.49 |
| 18      | 0225 | 3.08  | 18       | 0434 | 3.78  |
| Su      | 0836 | -2.07 | W        | 1032 | -3.12 |
|         | 1458 | 3.41  |          | 1709 | 3.89  |
|         | 2112 | -2.24 |          | 2258 | -3.35 |
| 19      | 0338 | 3.53  | 19       | 0534 | 4.50  |
| M       | 0944 | -2.58 | Th       | 1122 | -3.89 |
|         | 1607 | 3.80  |          | 1802 | 4.68  |
|         | 2212 | -2.79 |          | 2344 | -4.04 |
| 20      | 0440 | 4.00  | 20       | 0622 | 5.01  |
| Tu      | 1038 | -3.20 | F        | 1205 | -4.40 |
|         | 1711 | 4.25  |          | 1848 | 4.97  |
|         | 2304 | -3.37 |          |      |       |
| 21      | 0538 | 4.60  | 21       | 0627 | -4.42 |
| W       | 1128 | -3.77 | Sa       | 0706 | 5.26  |
|         | 1803 | 4.85  |          | 1249 | -4.81 |
|         | 2352 | -3.84 |          | 1927 | 8.15  |
| 22      | 0631 | 5.00  | 22       | 0107 | -4.81 |
| Th      | 1217 | -4.16 | Bu       | 0744 | 8.37  |
|         | 1858 | 4.93  |          | 1328 | -4.58 |
|         |      |       |          | 2004 | 5.18  |
| 23      | 0638 | -4.12 | 23       | 0144 | -4.38 |
| F       | 0718 | 5.22  | M        | 0620 | 8.27  |
|         | 1303 | -4.35 |          | 1403 | -4.34 |
|         | 1944 | 5.04  |          | 2037 | 4.98  |
| 24      | 0124 | -4.18 | 24       | 0216 | -4.08 |
| Sa      | 0804 | 5.28  | Tu       | 0854 | 4.98  |
|         | 1350 | -4.30 |          | 1435 | -3.97 |
|         | 2028 | 4.98  |          | 2109 | 4.81  |
| 25      | 0208 | -4.02 | 25       | 0243 | -3.88 |
| Su      | 0845 | 5.09  | W        | 0926 | 4.48  |
|         | 1434 | -4.04 |          | 1501 | -3.49 |
|         | 2108 | 4.71  |          | 2136 | 4.08  |
| 26      | 0249 | -3.87 | 26       | 0306 | -3.19 |
| M       | 0929 | 4.73  | Th       | 0954 | 3.82  |
|         | 1514 | -3.82 |          | 1527 | -2.88 |
|         | 2143 | 4.27  |          | 2202 | 3.80  |
| 27      | 0325 | -3.20 | 27       | 0338 | -2.89 |
| Tu      | 1003 | 4.21  | F        | 1022 | 3.18  |
|         | 1550 | -3.11 |          | 1569 | -2.42 |
|         | 2217 | 3.74  |          | 2230 | 2.80  |
| 28      | 0359 | -2.71 | 28       | 0412 | -2.11 |
| W       | 1039 | 3.82  | Sa       | 1056 | 2.80  |
|         | 1628 | -2.58 |          | 1641 | -1.76 |
|         | 2252 | 3.20  |          | 2310 | 2.30  |
| 29      | 0434 | -2.21 | 29       | 0503 | -1.38 |
| Th      | 1117 | 3.65  | Su       | 1152 | 1.89  |
|         | 1708 | -2.06 |          | 1741 | -1.01 |
|         | 2331 | 2.69  |          |      |       |
| 30      | 0819 | -1.87 |          |      |       |
| F       | 1208 | 2.53  |          |      |       |
|         | 1758 | -1.49 |          |      |       |
| 31      | 0627 | 2.27  |          |      |       |
| Sa      | 0622 | -1.09 |          |      |       |
|         | 1314 | 2.18  |          |      |       |
|         | 1918 | -1.03 |          |      |       |

**PORLOCK BAY****GMT****Datum : Ordnance Datum (Newlyn)****Year : 2004**

| March |            |      |            | April |            |      |            |
|-------|------------|------|------------|-------|------------|------|------------|
| Time  | m          | Time | m          | Time  | m          | Time | m          |
| 1     | 0028 1.61  | 16   | 0139 2.42  | 1     | 0304 2.42  | 16   | 0407 3.93  |
| M     | 0820 -0.67 |      | 0805 -1.52 |       | 0915 -1.83 |      | 1004 -3.55 |
|       | 1335 1.63  | Tu   | 1427 2.49  | Th    | 1542 2.78  | F    | 1637 4.07  |
|       | 1851 -0.58 |      | 2048 -1.67 |       | 2137 -2.28 |      | 2227 -3.68 |
| 2     | 0220 1.90  | 17   | 0314 2.94  | 2     | 0402 3.38  | 17   | 0458 4.53  |
| Tu    | 0851 -0.93 |      | 0928 -2.38 |       | 0958 -2.87 |      | 1047 -4.08 |
|       | 1514 2.11  | W    | 1556 3.20  | F     | 1832 3.86  | Sa   | 1722 4.94  |
|       | 2118 -1.48 |      | 2157 -2.61 |       | 2219 -3.22 |      | 2308 -4.11 |
| 3     | 0342 2.83  | 18   | 0426 3.82  | 3     | 0446 4.17  | 18   | 0540 4.82  |
| W     | 0942 -2.03 |      | 1023 -3.38 |       | 1041 -3.58 |      | 1124 -4.25 |
|       | 1518 2.83  | Th   | 1659 4.05  | Sa    | 1716 4.37  | Su   | 1800 4.74  |
|       | 2201 -2.54 |      | 2247 -3.83 |       | 2259 -3.88 |      | 2340 -4.20 |
| 4     | 0437 3.47  | 19   | 0521 4.58  | 4     | 0532 4.78  | 19   | 0618 4.90  |
| Th    | 1023 -2.93 |      | 1109 -4.18 |       | 1122 -4.08 |      | 1155 -4.21 |
|       | 1708 3.69  | F    | 1747 4.88  | Su    | 1758 4.68  | M    | 1833 4.84  |
|       | 2241 -3.30 |      | 2329 -4.27 |       | 2340 -4.32 |      |            |
| 5     | 0521 4.14  | 20   | 0606 5.03  | 5     | 0612 5.17  | 20   | 0610 -4.16 |
| F     | 1103 -3.52 |      | 1149 -4.54 |       | 1202 -4.44 |      | 0648 4.92  |
|       | 1746 4.27  | Ba   | 1827 4.97  | M     | 1835 5.22  | Tu   | 1224 -4.16 |
|       | 2321 -3.79 |      |            | O     |            |      | 1803 4.88  |
| 6     | 0601 4.83  | 21   | 0608 -4.53 | 6     | 0620 4.88  | 21   | 0638 4.13  |
| Sa    | 1144 -3.91 |      | 0654 5.22  |       | 0651 5.43  |      | 0720 4.88  |
| O     | 1825 4.70  | Su   | 1226 -4.60 | Tu    | 1241 -4.67 | W    | 1250 -4.14 |
|       |            |      | 1903 5.11  |       | 1913 5.41  |      | 1931 4.88  |
| 7     | 0001 -4.15 | 22   | 0641 -4.52 | 7     | 0658 -4.84 | 22   | 0101 -4.08 |
| Su    | 0639 4.99  |      | 0718 5.27  |       | 0729 5.54  |      | 0749 4.70  |
|       | 1224 -4.22 | M    | 1258 -4.51 | W     | 1319 -4.69 | Th   | 1315 -4.05 |
|       | 1903 5.02  |      | 1934 5.14  |       | 1950 5.40  |      | 2000 4.88  |
| 8     | 0041 -4.44 | 23   | 0111 -4.40 | 8     | 0135 -4.78 | 23   | 0124 -3.93 |
| M     | 0718 5.27  |      | 0750 5.20  |       | 0808 5.39  |      | 0818 4.32  |
|       | 1305 -4.46 | Tu   | 1327 -4.36 | Th    | 1355 -4.44 | F    | 1336 -3.79 |
|       | 1839 5.23  |      | 2004 5.04  |       | 2028 5.13  |      | 2025 4.24  |
| 9     | 0121 -4.82 | 24   | 0136 -4.21 | 9     | 0211 -4.45 | 24   | 0149 -3.80 |
| Tu    | 0793 5.42  |      | 0821 4.98  |       | 0847 4.97  |      | 0845 3.78  |
|       | 1345 -4.53 | W    | 1352 -4.10 | F     | 1428 -3.88 | Sa   | 1403 -3.36 |
|       | 2015 5.28  |      | 2032 4.74  |       | 2105 4.60  |      | 2053 3.70  |
| 10    | 0159 -4.58 | 25   | 0201 -3.91 | 10    | 0245 -3.93 | 25   | 0218 -3.18 |
| W     | 0830 5.34  |      | 0850 4.49  |       | 0927 4.30  |      | 0912 3.18  |
|       | 1422 -4.33 | Th   | 1410 -3.74 | Sa    | 1501 -3.41 | Su   | 1434 -2.84 |
|       | 2050 5.01  |      | 2068 4.25  |       | 2148 3.90  |      | 2121 3.18  |
| 11    | 0235 -4.28 | 26   | 0223 -3.52 | 11    | 0327 -3.29 | 26   | 0253 -2.82 |
| Th    | 0906 4.98  |      | 0915 3.88  |       | 1014 3.51  |      | 0943 2.81  |
|       | 1453 -3.91 | F    | 1440 -3.28 | Su    | 1548 -2.72 | M    | 1514 -2.28 |
|       | 2128 4.52  |      | 2122 3.68  |       | 2240 3.16  |      | 2158 2.82  |
| 12    | 0308 -3.82 | 27   | 0251 -3.02 | 12    | 0427 -2.53 | 27   | 0336 -2.05 |
| F     | 0844 4.39  |      | 0940 3.18  |       | 1117 2.77  |      | 1027 2.10  |
|       | 1527 -3.38 | Sa   | 1510 -2.89 | M     | 1857 -1.93 | Tu   | 1808 -1.67 |
|       | 2204 3.89  |      | 2147 3.04  | C     | 2357 2.60  |      | 2252 2.15  |
| 13    | 0348 -3.26 | 28   | 0326 -2.42 | 13    | 0558 -1.80 | 28   | 0448 -1.48 |
| Sa    | 1028 3.68  |      | 1008 2.62  |       | 1243 2.37  |      | 1142 1.75  |
| C     | 1612 -2.77 | Su   | 1547 -2.03 | Tu    | 1848 -1.34 | W    | 1728 -1.13 |
|       | 2248 3.21  |      | 2220 2.42  |       |            |      |            |
| 14    | 0441 -2.55 | 29   | 0412 -1.73 | 14    | 0131 2.56  | 29   | 0027 1.98  |
|       | 1120 2.85  |      | 1052 1.68  |       | 0758 -1.83 |      | 0635 -1.16 |
| Su    | 1712 -2.01 | M    | 1641 -1.28 | W     | 1418 2.59  |      | 1334 1.95  |
|       | 2357 2.59  |      | 2320 1.85  |       | 2036 -1.83 |      | 1838 -1.17 |
| 15    | 0800 -1.77 | 30   | 0519 -0.99 | 15    | 0259 3.13  | 30   | 0208 2.47  |
| M     | 1247 2.41  |      | 1225 1.45  |       | 0911 -2.89 |      | 0829 -1.81 |
|       | 1848 -1.29 | Tu   | 1808 -0.80 |       | 1538 3.32  | F    | 1453 2.71  |
|       |            |      |            |       | 2140 -2.84 |      | 2057 -2.12 |
|       |            | 31   | 0122 1.89  |       |            |      |            |
|       |            |      | 0755 -0.89 |       |            |      |            |
|       |            | W    | 1434 1.84  |       |            |      |            |
|       |            |      | 2047 -1.10 |       |            |      |            |



# PORLOCK BAY

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| July     |      |       | August   |      |       |
|----------|------|-------|----------|------|-------|
|          | Time | m     |          | Time | m     |
| 1<br>Th  | 0451 | 4.36  | 1<br>Su  | 0636 | 4.80  |
|          | 1049 | -3.48 |          | 1220 | -4.14 |
|          | 1720 | 4.89  |          | 1858 | 5.19  |
|          | 2312 | -3.80 |          |      |       |
| 2<br>F   | 0646 | 4.64  | 2<br>M   | 0046 | -4.51 |
|          | 1137 | -3.82 |          | 0724 | 5.03  |
|          | 1814 | 4.89  |          | 1307 | -4.39 |
|          |      |       |          | 1944 | 5.35  |
| 3<br>Sa  | 0002 | -4.13 | 3<br>Tu  | 0133 | -4.85 |
|          | 0642 | 4.82  |          | 0809 | 5.09  |
|          | 1228 | -4.04 |          | 1353 | -4.39 |
|          | 1906 | 5.07  |          | 2027 | 5.31  |
| 4<br>Su  | 0031 | -4.31 | 4<br>W   | 0219 | -4.52 |
|          | 0733 | 4.89  |          | 0850 | 4.96  |
|          | 1315 | -4.10 |          | 1438 | -4.14 |
|          | 1954 | 5.10  |          | 2109 | 5.05  |
| 5<br>M   | 0143 | -4.33 | 5<br>Th  | 0301 | -4.15 |
|          | 0822 | 4.83  |          | 0927 | 4.60  |
|          | 1404 | -3.99 |          | 1515 | -3.68 |
|          | 2044 | 4.98  |          | 2147 | 4.58  |
| 6<br>Tu  | 0235 | -4.18 | 6<br>F   | 0338 | -3.61 |
|          | 0909 | 4.81  |          | 1004 | 4.08  |
|          | 1458 | -3.73 |          | 1550 | -3.12 |
|          | 2130 | 4.89  |          | 2225 | 3.97  |
| 7<br>W   | 0326 | -3.84 | 7<br>Sa  | 0413 | -3.00 |
|          | 0955 | 4.25  |          | 1038 | 3.49  |
|          | 1544 | -3.35 |          | 1823 | -2.84 |
|          | 2217 | 4.28  |          | 2301 | 3.31  |
| 8<br>Th  | 0418 | -3.42 | 8<br>Su  | 0449 | -2.40 |
|          | 1040 | 3.79  |          | 1114 | 2.92  |
|          | 1833 | -2.92 |          | 1701 | -1.96 |
|          | 2304 | 3.80  |          | 2344 | 2.70  |
| 9<br>F   | 0507 | -2.96 | 9<br>M   | 0533 | -1.79 |
|          | 1129 | 3.33  |          | 1200 | 2.43  |
|          | 1724 | -2.47 |          | 1754 | -1.34 |
|          | 2354 | 3.34  |          |      |       |
| 10<br>Sa | 0600 | -2.50 | 10<br>Tu | 0044 | 2.22  |
|          | 1215 | 2.93  |          | 0639 | -1.19 |
|          | 1820 | -2.02 |          | 1314 | 2.12  |
|          |      |       |          | 1923 | -0.83 |
| 11<br>Su | 0049 | 2.96  | 11<br>W  | 0207 | 2.08  |
|          | 0839 | -2.08 |          | 0824 | -1.09 |
|          | 1314 | 2.57  |          | 1445 | 2.28  |
|          | 1924 | -1.88 |          | 2102 | -1.25 |
| 12<br>M  | 0182 | 2.75  | 12<br>Th | 0330 | 2.42  |
|          | 0802 | -1.85 |          | 0928 | -1.78 |
|          | 1421 | 2.83  |          | 1537 | 2.85  |
|          | 2034 | -1.83 |          | 2151 | -2.10 |
| 13<br>Tu | 0257 | 2.78  | 13<br>F  | 0431 | 3.02  |
|          | 0902 | -2.00 |          | 1009 | -2.57 |
|          | 1525 | 2.87  |          | 1850 | 3.49  |
|          | 2128 | -1.99 |          | 2330 | -2.80 |
| 14<br>W  | 0354 | 3.02  | 14<br>Sa | 0519 | 3.57  |
|          | 0948 | -2.40 |          | 1048 | -3.13 |
|          | 1621 | 3.28  |          | 1734 | 3.68  |
|          | 2209 | -2.48 |          | 2308 | -3.23 |
| 15<br>Th | 0449 | 3.33  | 15<br>Su | 0800 | 3.98  |
|          | 1028 | -2.85 |          | 1124 | -3.44 |
|          | 1709 | 3.63  |          | 1813 | 4.30  |
|          | 2248 | -2.90 |          | 2347 | -3.47 |
|          |      |       |          |      |       |
| 16<br>F  | 0616 | 3.82  | 16<br>M  | 0636 | 4.22  |
|          | 1139 | -3.38 |          | 1202 | -3.82 |
|          | 1828 | 4.11  |          | 1847 | 4.53  |
|          | 2350 | -3.20 |          |      |       |
| 17<br>Sa | 0854 | 3.88  | 17<br>Tu | 0025 | -3.83 |
|          | 1216 | -3.43 |          | 0710 | 4.44  |
|          | 1904 | 4.23  |          | 1241 | -3.78 |
|          |      |       |          | 1921 | 4.73  |
| 18<br>Su | 0038 | -3.38 | 18<br>W  | 0104 | -3.80 |
|          | 0728 | 4.07  |          | 0744 | 4.64  |
|          | 1253 | -3.48 |          | 1320 | -3.80 |
|          | 1930 | 4.34  |          | 1956 | 4.86  |
| 19<br>M  | 0115 | -3.43 | 19<br>Th | 0144 | -3.80 |
|          | 0804 | 4.18  |          | 0819 | 4.72  |
|          | 1331 | -3.49 |          | 1359 | -3.91 |
|          | 2015 | 4.42  |          | 2031 | 4.86  |
| 20<br>Tu | 0156 | -3.48 | 20<br>F  | 0222 | -3.83 |
|          | 0838 | 4.21  |          | 0853 | 4.89  |
|          | 1411 | -3.47 |          | 1435 | -3.72 |
|          | 2052 | 4.39  |          | 2106 | 4.65  |
| 21<br>W  | 0238 | -3.44 | 21<br>Sa | 0257 | -3.64 |
|          | 0915 | 4.10  |          | 0927 | 4.23  |
|          | 1452 | -3.34 |          | 1510 | -3.38 |
|          | 2129 | 4.21  |          | 2143 | 4.23  |
| 22<br>Th | 0318 | -3.28 | 22<br>Su | 0330 | -3.14 |
|          | 0952 | 3.83  |          | 1002 | 3.74  |
|          | 1534 | -3.10 |          | 1947 | -2.83 |
|          | 2208 | 3.82  |          | 2220 | 3.72  |
| 23<br>F  | 0401 | -2.99 | 23<br>M  | 0410 | -2.69 |
|          | 1032 | 3.48  |          | 1041 | 3.24  |
|          | 1820 | -2.80 |          | 1834 | -2.45 |
|          | 2251 | 3.58  |          | 2305 | 3.18  |
| 24<br>Sa | 0451 | -2.68 | 24<br>Tu | 0504 | -2.17 |
|          | 1117 | 3.14  |          | 1135 | 2.75  |
|          | 1715 | -2.47 |          | 1740 | -1.87 |
|          | 2341 | 3.26  |          |      |       |
| 25<br>Su | 0650 | -2.34 | 25<br>W  | 0015 | 2.69  |
|          | 1216 | 2.89  |          | 0621 | -1.57 |
|          | 1823 | -2.11 |          | 1308 | 2.49  |
|          |      |       |          | 1921 | -1.41 |
| 26<br>M  | 0052 | 3.04  | 26<br>Th | 0156 | 2.88  |
|          | 0706 | -2.00 |          | 0817 | -1.42 |
|          | 1339 | 2.85  |          | 1443 | 2.83  |
|          | 1949 | -1.91 |          | 2104 | -1.92 |
| 27<br>Tu | 0215 | 3.09  | 27<br>F  | 0323 | 3.03  |
|          | 0833 | -2.01 |          | 0935 | -2.19 |
|          | 1457 | 3.19  |          | 1602 | 3.59  |
|          | 2111 | -2.29 |          | 2208 | -2.87 |
| 28<br>W  | 0331 | 3.43  | 28<br>Sa | 0440 | 3.79  |
|          | 0940 | -2.51 |          | 1034 | -3.12 |
|          | 1607 | 3.75  |          | 1706 | 4.42  |
|          | 2210 | -2.94 |          | 2301 | -3.77 |
| 29<br>Th | 0440 | 3.91  | 29<br>Su | 0537 | 4.51  |
|          | 1038 | -3.11 |          | 1124 | -3.84 |
|          | 1711 | 4.35  |          | 1800 | 5.04  |
|          | 2305 | -3.57 |          | 2348 | -4.43 |
| 30<br>F  | 0543 | 4.40  | 30<br>M  | 0628 | 4.99  |
|          | 1130 | -3.68 |          | 1209 | -4.48 |
|          | 1808 | 4.84  |          | 1845 | 5.39  |
|          | 2357 | -4.12 |          |      |       |
| 31<br>Sa |      |       | 31<br>Tu | 0032 | -4.77 |
|          |      |       |          | 0708 | 5.22  |
|          |      |       |          | 1250 | -4.68 |
|          |      |       |          | 1925 | 5.33  |

# PORLOCK BAY

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| September |      |       | October |      |       |
|-----------|------|-------|---------|------|-------|
|           | Time | m     |         | Time | m     |
| 1         | 0111 | -4.80 | 16      | 0044 | -4.12 |
|           | 0745 | 5.28  |         | 0718 | 5.00  |
|           | 1328 | -4.58 |         | 1259 | -4.22 |
|           | 2003 | 5.48  |         | 1932 | 5.22  |
| 2         | 0149 | -4.58 | 17      | 0121 | -4.18 |
|           | 0821 | 5.18  |         | 0752 | 5.05  |
|           | 1403 | -4.28 |         | 1338 | -4.19 |
|           | 2037 | 5.21  |         | 2007 | 5.18  |
| 3         | 0222 | -4.18 | 18      | 0156 | -4.03 |
|           | 0853 | 4.81  |         | 0827 | 4.88  |
|           | 1434 | -3.77 |         | 1411 | -3.83 |
|           | 2112 | 4.70  |         | 2042 | 4.88  |
| 4         | 0251 | -3.60 | 19      | 0228 | -3.65 |
|           | 0924 | 4.28  |         | 0901 | 4.48  |
|           | 1457 | -3.20 |         | 1441 | -3.49 |
|           | 2143 | 4.00  |         | 2118 | 4.35  |
| 5         | 0318 | -2.99 | 20      | 0257 | -3.18 |
|           | 0950 | 3.81  |         | 0937 | 3.88  |
|           | 1525 | -2.61 |         | 1518 | -2.97 |
|           | 2211 | 3.25  |         | 2156 | 3.69  |
| 6         | 0344 | -2.38 | 21      | 0338 | -2.82 |
|           | 1017 | 2.85  |         | 1017 | 3.23  |
|           | 1653 | -1.89 |         | 1504 | -2.38 |
|           | 2242 | 2.53  |         | 2245 | 2.99  |
| 7         | 0420 | -1.71 | 22      | 0431 | -1.95 |
|           | 1055 | 2.32  |         | 1118 | 2.81  |
|           | 1641 | -1.28 |         | 1718 | -1.63 |
|           | 2032 | 1.88  |         |      |       |
| 8         | 0516 | -0.94 | 23      | 0005 | 2.35  |
|           | 1203 | 1.78  |         | 0559 | -1.22 |
|           | 1753 | -0.51 |         | 1300 | 2.34  |
|           |      |       |         | 1920 | -1.20 |
| 9         | 0117 | 1.49  | 24      | 0149 | 2.36  |
|           | 0705 | -0.30 |         | 0813 | -1.24 |
|           | 1408 | 1.77  |         | 1438 | 2.82  |
|           | 2042 | -0.58 |         | 2100 | -2.03 |
| 10        | 0307 | 1.88  | 25      | 0322 | 3.04  |
|           | 0908 | -1.17 |         | 0931 | -2.31 |
|           | 1534 | 2.54  |         | 1558 | 3.77  |
|           | 2134 | -1.77 |         | 2201 | -3.17 |
| 11        | 0409 | 2.82  | 26      | 0432 | 3.98  |
|           | 0951 | -2.28 |         | 1025 | -3.44 |
|           | 1627 | 3.41  |         | 1657 | 4.68  |
|           | 2212 | -2.74 |         | 2249 | -4.08 |
| 12        | 0454 | 3.60  | 27      | 0524 | 4.71  |
|           | 1030 | -3.10 |         | 1110 | -4.23 |
|           | 1708 | 4.08  |         | 1743 | 5.21  |
|           | 2250 | -3.38 |         | 2331 | -4.59 |
| 13        | 0535 | 4.17  | 28      | 0607 | 5.10  |
|           | 1107 | -3.59 |         | 1149 | -4.57 |
|           | 1748 | 4.55  |         | 1824 | 5.44  |
|           | 2328 | -3.71 |         |      |       |
| 14        | 0610 | 4.54  | 29      | 0009 | -4.70 |
|           | 1144 | -3.88 |         | 0643 | 5.24  |
|           | 1822 | 4.85  |         | 1225 | -4.57 |
|           |      |       |         | 1900 | 3.47  |
| 15        | 0008 | -3.94 | 30      | 0043 | -4.58 |
|           | 0645 | 4.81  |         | 0717 | 5.28  |
|           | 1222 | -4.08 |         | 1257 | -4.38 |
|           | 1857 | 5.08  |         | 1933 | 5.39  |
| 1         | 0114 | -4.32 | 16      | 0055 | -4.27 |
|           | 0748 | 5.18  |         | 0727 | 5.23  |
|           | 1324 | -4.10 |         | 1310 | -4.31 |
|           | 2006 | 5.13  |         | 1943 | 5.28  |
| 2         | 0138 | -4.00 | 17      | 0129 | -4.08 |
|           | 0816 | 4.85  |         | 0804 | 5.04  |
|           | 1349 | -3.72 |         | 1345 | -4.03 |
|           | 2036 | 4.64  |         | 2022 | 4.94  |
| 3         | 0203 | -3.58 | 18      | 0202 | -3.68 |
|           | 0846 | 4.33  |         | 0841 | 4.60  |
|           | 1412 | -3.24 |         | 1418 | -3.67 |
|           | 2104 | 3.05  |         | 2102 | 4.38  |
| 4         | 0228 | -3.01 | 19      | 0235 | -3.16 |
|           | 0911 | 3.67  |         | 0822 | 3.98  |
|           | 1438 | -2.67 |         | 1459 | -2.99 |
|           | 2129 | 3.19  |         | 2147 | 3.63  |
| 5         | 0253 | -2.39 | 20      | 0318 | -2.84 |
|           | 0934 | 3.00  |         | 1012 | 3.28  |
|           | 1507 | -2.05 |         | 1554 | -2.31 |
|           | 2156 | 2.48  |         | 2245 | 2.90  |
| 6         | 0327 | -1.72 | 21      | 0422 | -1.83 |
|           | 1005 | 2.34  |         | 1123 | 2.71  |
|           | 1551 | -1.34 |         | 1718 | -1.63 |
|           | 2234 | 1.78  |         |      |       |
| 7         | 0419 | -0.98 | 22      | 0008 | 2.45  |
|           | 1101 | 1.73  |         | 0603 | -1.23 |
|           | 1656 | -0.58 |         | 1258 | 2.60  |
|           |      |       |         | 1923 | -1.54 |
| 8         | 0010 | 1.28  | 23      | 0142 | 2.87  |
|           | 0541 | -0.23 |         | 0805 | -1.65 |
|           | 1318 | 1.53  |         | 1427 | 3.12  |
|           | 1949 | -0.18 |         | 2045 | -2.36 |
| 9         | 0228 | 1.67  | 24      | 0308 | 3.25  |
|           | 0840 | -0.84 |         | 0815 | -2.58 |
|           | 1456 | 2.28  |         | 1639 | 3.86  |
|           | 2108 | -1.40 |         | 2142 | -3.32 |
| 10        | 0334 | 2.69  | 25      | 0411 | 4.07  |
|           | 0827 | -1.86 |         | 1007 | -3.49 |
|           | 1551 | 3.23  |         | 1634 | 4.66  |
|           | 2148 | -2.00 |         | 2227 | -3.99 |
| 11        | 0420 | 3.48  | 26      | 0500 | 4.83  |
|           | 1008 | -2.87 |         | 1048 | -4.04 |
|           | 1634 | 4.04  |         | 1719 | 5.03  |
|           | 2228 | -3.27 |         | 2308 | -4.24 |
| 12        | 0500 | 4.48  | 27      | 0640 | 4.89  |
|           | 1043 | -3.52 |         | 1124 | -4.18 |
|           | 1714 | 4.62  |         | 1758 | 5.13  |
|           | 2304 | -3.74 |         | 2340 | -4.21 |
| 13        | 0637 | 4.86  | 28      | 0615 | 4.97  |
|           | 1120 | -3.94 |         | 1155 | -4.09 |
|           | 1752 | 5.01  |         | 1831 | 5.12  |
|           | 2342 | -4.06 |         |      |       |
| 14        | 0615 | 5.01  | 29      | 0010 | -4.07 |
|           | 1157 | -4.21 |         | 0646 | 4.99  |
|           | 1829 | 5.28  |         | 1224 | -3.85 |
|           |      |       |         | 1904 | 5.04  |
| 15        | 0019 | -4.24 | 30      | 0038 | -3.94 |
|           | 0651 | 5.20  |         | 0717 | 4.94  |
|           | 1235 | -4.36 |         | 1249 | -3.80 |
|           | 1806 | 5.37  |         | 1936 | 4.83  |
| 31        | 0102 | -3.78 | 31      | 0102 | -3.78 |
|           | 0748 | 4.71  |         | 0748 | 4.71  |
|           | 1313 | -3.57 |         | 1313 | -3.57 |
|           | 2007 | 4.43  |         | 2007 | 4.43  |

# PORLOCK BAY

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| November |      |       | December |      |       |
|----------|------|-------|----------|------|-------|
|          | Time | m     |          | Time | m     |
| 1        | 0127 | -3.48 | 1        | 0130 | -2.98 |
| M        | 0815 | 4.20  | W        | 0823 | 3.82  |
|          | 1337 | -3.19 |          | 1345 | -2.74 |
|          | 2034 | 3.84  |          | 2047 | 3.38  |
| 2        | 0151 | -2.99 | 2        | 0201 | -2.68 |
| Tu       | 0841 | 3.71  | Th       | 0858 | 3.42  |
|          | 1403 | -2.70 |          | 1422 | -2.38 |
|          | 2101 | 3.19  |          | 2121 | 2.97  |
| 3        | 0210 | -2.44 | 3        | 0238 | -2.19 |
| W        | 0909 | 3.12  | F        | 0933 | 3.04  |
|          | 1438 | -2.15 |          | 1507 | -2.00 |
|          | 2130 | 2.58  |          | 2203 | 2.80  |
| 4        | 0253 | -1.86 | 4        | 0330 | -1.79 |
| Th       | 0941 | 2.56  | Sa       | 1020 | 2.70  |
|          | 1518 | -1.57 |          | 1808 | -1.65 |
|          | 2210 | 2.02  |          | 2255 | 2.31  |
| 5        | 0344 | -1.25 | 5        | 0435 | -1.44 |
| F        | 1033 | 2.06  | Su       | 1123 | 2.49  |
|          | 1622 | -0.98 |          | 1724 | -1.39 |
|          | 2321 | 1.81  |          |      |       |
| 6        | 0500 | -0.89 | 6        | 0504 | 2.20  |
| Sa       | 1205 | 1.80  | M        | 0559 | -1.25 |
|          | 1804 | -0.60 |          | 1239 | 2.52  |
|          |      |       |          | 1851 | -1.39 |
| 7        | 0116 | 1.70  | 7        | 0125 | 2.41  |
| Su       | 0705 | -0.56 | Tu       | 0728 | -1.40 |
|          | 1352 | 2.20  |          | 1356 | 2.90  |
|          | 2013 | -1.10 |          | 2011 | -1.78 |
| 8        | 0236 | 2.38  | 8        | 0236 | 2.95  |
| M        | 0843 | -1.43 | W        | 0842 | -1.96 |
|          | 1459 | 3.08  |          | 1500 | 3.49  |
|          | 2110 | -2.08 |          | 2111 | -2.40 |
| 9        | 0331 | 3.22  | 9        | 0334 | 3.82  |
| Tu       | 0830 | -2.41 | Th       | 0936 | -2.67 |
|          | 1556 | 3.80  |          | 1557 | 4.09  |
|          | 2153 | -2.89 |          | 2201 | -3.04 |
| 10       | 0418 | 3.99  | 10       | 0428 | 4.25  |
| W        | 1012 | -3.17 | F        | 1023 | -3.32 |
|          | 1635 | 4.48  |          | 1648 | 4.99  |
|          | 2234 | -3.48 |          | 2248 | -3.56 |
| 11       | 0501 | 4.58  | 11       | 0515 | 4.74  |
| Th       | 1052 | -3.72 | Sa       | 1108 | -3.82 |
|          | 1719 | 4.93  |          | 1737 | 4.93  |
|          | 2313 | -3.90 |          | 2328 | -3.92 |
| 12       | 0543 | 4.89  | 12       | 0604 | 5.06  |
| F        | 1131 | -4.10 | Su       | 1148 | -4.12 |
|          | 1801 | 5.21  |          | 1827 | 5.09  |
|          | 2352 | -4.15 |          |      |       |
| 13       | 0624 | 5.22  | 13       | 0611 | -4.06 |
| Sa       | 1208 | -4.31 | M        | 0651 | 5.21  |
|          | 1843 | 5.31  |          | 1235 | -4.23 |
|          |      |       |          | 1916 | 5.10  |
| 14       | 0030 | -4.22 | 14       | 0058 | -4.04 |
| Su       | 0706 | 5.27  | Tu       | 0739 | 5.19  |
|          | 1248 | -4.30 |          | 1321 | -4.14 |
|          | 1928 | 5.22  |          | 2008 | 4.98  |
| 15       | 0107 | -4.06 | 15       | 0143 | -3.83 |
| M        | 0747 | 5.11  | W        | 0828 | 5.00  |
|          | 1328 | -4.06 |          | 1413 | -3.90 |
|          | 2010 | 4.91  |          | 2055 | 4.66  |
| 16       | 0145 | -3.89 | 16       | 0234 | -3.90 |
| Tu       | 0831 | 4.73  | Th       | 0918 | 4.68  |
|          | 1409 | -3.64 |          | 1510 | -3.66 |
|          | 2058 | 4.40  |          | 2146 | 4.26  |
| 17       | 0227 | -3.19 | 17       | 0330 | -3.12 |
| W        | 0920 | 4.20  | F        | 1011 | 4.28  |
|          | 1458 | -3.08 |          | 1810 | -3.18 |
|          | 2149 | 3.79  |          | 2239 | 3.82  |
| 18       | 0318 | -2.62 | 18       | 0433 | -2.74 |
| Th       | 1018 | 3.64  | Sa       | 1107 | 3.87  |
|          | 1804 | -2.53 |          | 1718 | -2.83 |
|          | 2250 | 3.23  |          | 2335 | 3.22  |
| 19       | 0430 | -2.07 | 19       | 0541 | -2.40 |
| F        | 1123 | 3.22  | Su       | 1207 | 3.66  |
|          | 1729 | -2.12 |          | 1825 | -2.64 |
| 20       | 0000 | 2.80  | 20       | 0037 | 3.14  |
| Sa       | 0605 | -1.78 | M        | 0651 | -2.19 |
|          | 1240 | 3.12  |          | 1313 | 3.36  |
|          | 1904 | -2.13 |          | 1929 | -2.36 |
| 21       | 0117 | 2.92  | 21       | 0143 | 3.03  |
| Su       | 0737 | -1.85 | Tu       | 0787 | -2.05 |
|          | 1357 | 3.37  |          | 1418 | 3.33  |
|          | 2015 | -2.64 |          | 2028 | -2.32 |
| 22       | 0233 | 3.28  | 22       | 0249 | 3.14  |
| M        | 0843 | -2.47 | W        | 0856 | -2.14 |
|          | 1505 | 3.82  |          | 1520 | 3.48  |
|          | 2111 | -3.01 |          | 2120 | -2.44 |
| 23       | 0337 | 3.78  | 23       | 0348 | 3.38  |
| Tu       | 0837 | -2.98 | Th       | 0946 | -2.36 |
|          | 1401 | 4.23  |          | 1814 | 3.63  |
|          | 2158 | -3.34 |          | 2204 | -2.66 |
| 24       | 0428 | 4.13  | 24       | 0437 | 3.88  |
| W        | 1019 | -3.32 | F        | 1025 | -2.68 |
|          | 1648 | 4.45  |          | 1701 | 3.81  |
|          | 2236 | -3.50 |          | 2241 | -2.95 |
| 25       | 0509 | 4.35  | 25       | 0520 | 3.82  |
| Th       | 1054 | -3.44 | Sa       | 1059 | -2.83 |
|          | 1729 | 4.53  |          | 1743 | 3.87  |
|          | 2309 | -3.54 |          | 2314 | -3.17 |
| 26       | 0545 | 4.47  | 26       | 0559 | 4.14  |
| F        | 1125 | -3.48 | Su       | 1122 | -3.11 |
|          | 1805 | 4.85  |          | 1823 | 4.08  |
|          | 2339 | -3.85 |          | 2347 | -3.31 |
| 27       | 0618 | 4.58  | 27       | 0636 | 4.25  |
| Sa       | 1154 | -3.47 | M        | 1203 | -3.20 |
|          | 1839 | 4.53  |          | 1900 | 4.10  |
| 28       | 0008 | -3.67 | 28       | 0019 | -3.34 |
| Su       | 0651 | 4.97  | Tu       | 0709 | 4.28  |
|          | 1221 | -3.45 |          | 1238 | -3.18 |
|          | 1913 | 4.41  |          | 1933 | 4.04  |
| 29       | 0035 | -3.52 | 29       | 0051 | -3.25 |
| M        | 0723 | 4.45  | W        | 0742 | 4.21  |
|          | 1249 | -3.33 |          | 1308 | -3.08 |
|          | 1945 | 4.18  |          | 2006 | 3.96  |
| 30       | 0102 | -3.31 | 30       | 0123 | -3.11 |
| Tu       | 0753 | 4.18  | Th       | 0814 | 4.11  |
|          | 1316 | -3.08 |          | 1343 | -2.98 |
|          | 2018 | 3.79  |          | 2037 | 3.83  |
|          |      |       | 31       | 0158 | -2.98 |
|          |      |       | F        | 0849 | 3.98  |
|          |      |       |          | 1421 | -2.85 |
|          |      |       |          | 2113 | 3.04  |

# MINEHEAD

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| January |      |       |  | February |      |       |  |
|---------|------|-------|--|----------|------|-------|--|
|         | Time | m     |  |          | Time | m     |  |
| 1       | 0115 | 2.52  |  | 1        | 0224 | 2.57  |  |
| Th      | 0718 | -1.95 |  | Bu       | 0827 | -1.94 |  |
|         | 1354 | 2.91  |  |          | 1505 | 2.58  |  |
|         | 1958 | -2.07 |  |          | 2103 | -2.13 |  |
| 2       | 0224 | 2.69  |  | 2        | 0335 | 2.58  |  |
| F       | 0828 | -2.09 |  | M        | 0941 | -2.21 |  |
|         | 1457 | 3.10  |  |          | 1610 | 3.02  |  |
|         | 2100 | -2.35 |  |          | 2208 | -2.48 |  |
| 3       | 0328 | 3.07  |  | 3        | 0433 | 3.31  |  |
| Sa      | 0929 | -2.40 |  |          | 1044 | -2.82 |  |
|         | 1554 | 3.41  |  | Tu       | 1706 | 3.45  |  |
|         | 2158 | -2.71 |  |          | 2307 | -2.65 |  |
| 4       | 0419 | 3.50  |  | 4        | 0525 | 3.76  |  |
| Bu      | 1024 | -2.75 |  |          | 1136 | -3.05 |  |
|         | 1845 | 3.71  |  | W        | 1752 | 3.86  |  |
|         | 2248 | -3.04 |  |          | 2387 | -3.25 |  |
| 5       | 0507 | 3.87  |  | 5        | 0609 | 4.18  |  |
| M       | 1114 | -3.07 |  | Th       | 1222 | -3.44 |  |
|         | 1731 | 3.98  |  |          | 1834 | 4.27  |  |
|         | 2330 | -3.28 |  | 6        | 0040 | -3.82 |  |
| 6       | 0651 | 4.15  |  |          | 0649 | 4.65  |  |
| Tu      | 1200 | -3.31 |  | F        | 1302 | -3.77 |  |
|         | 1814 | 4.14  |  |          | 1911 | 4.68  |  |
| 7       | 0817 | -3.48 |  | 7        | 0118 | -3.83 |  |
| W       | 0831 | 4.34  |  |          | 0724 | 4.90  |  |
| O       | 1242 | -3.48 |  | Ba       | 1336 | -4.03 |  |
|         | 1854 | 4.27  |  |          | 1945 | 4.85  |  |
| 8       | 0057 | -3.58 |  | 8        | 0150 | -4.18 |  |
| Th      | 0700 | 4.80  |  | Bu       | 0757 | 5.19  |  |
|         | 1319 | -3.48 |  |          | 1407 | -4.22 |  |
|         | 1929 | 4.38  |  |          | 2015 | 5.03  |  |
| 9       | 0133 | -3.87 |  | 9        | 0219 | -4.36 |  |
| F       | 0742 | 4.59  |  |          | 0829 | 5.40  |  |
|         | 1352 | -3.89 |  | M        | 1436 | -4.33 |  |
|         | 2001 | 4.44  |  |          | 2046 | 5.11  |  |
| 10      | 0205 | -3.74 |  | 10       | 0246 | -4.44 |  |
| Sa      | 0813 | 4.69  |  | Tu       | 0900 | 5.47  |  |
|         | 1421 | -3.75 |  |          | 1503 | -4.34 |  |
|         | 2031 | 4.50  |  |          | 2118 | 5.06  |  |
| 11      | 0234 | -3.81 |  | 11       | 0316 | -4.39 |  |
| Bu      | 0844 | 4.79  |  |          | 0933 | 5.35  |  |
|         | 1450 | -3.78 |  | W        | 1534 | -4.19 |  |
|         | 2101 | 4.51  |  |          | 2152 | 4.81  |  |
| 12      | 0303 | -3.84 |  | 12       | 0350 | -4.15 |  |
| M       | 0918 | 4.83  |  | Th       | 1012 | 5.00  |  |
|         | 1528 | -3.77 |  |          | 1611 | -3.83 |  |
|         | 2135 | 4.44  |  |          | 2233 | 4.37  |  |
| 13      | 0335 | -3.81 |  | 13       | 0431 | -3.70 |  |
| Tu      | 0952 | 4.78  |  | F        | 1057 | 4.41  |  |
|         | 1555 | -3.65 |  |          | 1657 | -3.28 |  |
|         | 2214 | 4.29  |  | C        | 2328 | 3.78  |  |
| 14      | 0414 | -3.84 |  | 14       | 0525 | -3.05 |  |
| W       | 1038 | 4.95  |  |          | 1157 | 3.71  |  |
|         | 1840 | -3.41 |  | Sa       | 1758 | -2.84 |  |
|         | 2302 | 3.95  |  |          |      |       |  |
| 15      | 0503 | -3.35 |  | 15       | 0035 | 3.22  |  |
| Th      | 1129 | 4.23  |  | Bu       | 0639 | -2.48 |  |
| C       | 1737 | -3.10 |  |          | 1315 | 3.15  |  |
|         |      |       |  |          | 1924 | -2.18 |  |
| 16      | 0002 | 3.64  |  | 16       | 0223 | 2.98  |  |
| F       | 0607 | -3.04 |  |          | 0817 | -2.28 |  |
|         | 1234 | 3.91  |  |          | 1448 | 3.04  |  |
|         | 1847 | -2.85 |  |          | 2108 | -2.17 |  |
| 17      | 0116 | 3.48  |  | 17       | 0334 | 3.27  |  |
| Ba      | 0722 | -2.88 |  |          | 0957 | -2.86 |  |
|         | 1350 | 3.75  |  | Tu       | 1614 | 3.44  |  |
|         | 2008 | -2.79 |  |          | 2238 | -2.86 |  |
| 18      | 0223 | 3.55  |  | 18       | 0449 | 3.89  |  |
| Sa      | 0843 | -2.82 |  |          | 1112 | -3.17 |  |
|         | 1508 | 3.84  |  | W        | 1721 | 4.05  |  |
|         | 2128 | -2.95 |  |          | 2343 | -3.31 |  |
| 19      | 0348 | 3.89  |  | 19       | 0550 | 4.59  |  |
| M       | 1002 | -3.20 |  |          | 1212 | -3.78 |  |
|         | 1621 | 4.13  |  | Th       | 1817 | 4.64  |  |
|         | 2240 | -3.27 |  |          |      |       |  |
| 20      | 0457 | 4.35  |  | 20       | 0038 | -3.80 |  |
|         | 1113 | -3.60 |  |          | 0642 | 5.18  |  |
| Tu      | 1727 | 4.50  |  | F        | 1301 | -4.25 |  |
|         | 2345 | -3.84 |  |          | 1905 | 5.08  |  |
| 21      | 0557 | 4.82  |  | 21       | 0121 | -4.33 |  |
| W       | 1215 | -3.97 |  | Ba       | 0728 | 5.58  |  |
|         | 1825 | 4.84  |  |          | 1344 | -4.52 |  |
| 22      | 0042 | -3.87 |  |          | 1948 | 5.30  |  |
| Th      | 0652 | 5.20  |  | 22       | 0201 | -4.54 |  |
|         | 1309 | -4.28 |  |          | 0809 | 5.72  |  |
|         | 1917 | 5.08  |  | Sa       | 1421 | -4.57 |  |
| 23      | 0133 | -4.21 |  |          | 2028 | 5.30  |  |
| F       | 0741 | 5.43  |  | 23       | 0234 | -4.53 |  |
|         | 1357 | -4.38 |  | M        | 0845 | 5.61  |  |
|         | 2003 | 5.15  |  |          | 1453 | -4.42 |  |
| 24      | 0216 | -4.29 |  |          | 2100 | 5.09  |  |
|         | 0828 | 5.47  |  | 24       | 0303 | -4.33 |  |
| Ba      | 1439 | -4.32 |  |          | 0918 | 5.26  |  |
|         | 2045 | 5.03  |  | Tu       | 1521 | -4.13 |  |
| 25      | 0254 | -4.19 |  |          | 2130 | 4.72  |  |
|         | 0907 | 5.29  |  | 25       | 0330 | -3.88 |  |
| Sa      | 1515 | -4.07 |  |          | 0948 | 4.75  |  |
|         | 2124 | 4.71  |  | W        | 1547 | -3.74 |  |
| 26      | 0327 | -3.93 |  |          | 2158 | 4.25  |  |
|         | 0945 | 4.90  |  | 26       | 0357 | -3.54 |  |
| M       | 1548 | -3.89 |  |          | 1016 | 4.15  |  |
|         | 2159 | 4.25  |  | Th       | 1615 | -3.20 |  |
| 27      | 0359 | -3.54 |  |          | 2227 | 3.74  |  |
| Tu      | 1021 | 4.38  |  | 27       | 0429 | -3.02 |  |
|         | 1621 | -3.24 |  | F        | 1048 | 3.50  |  |
|         | 2234 | 3.73  |  |          | 1651 | -2.77 |  |
| 28      | 0432 | -3.09 |  |          | 2304 | 3.20  |  |
| W       | 1058 | 3.80  |  | 28       | 0511 | -2.48 |  |
|         | 1658 | -2.79 |  | Ba       | 1131 | 2.88  |  |
|         | 2314 | 3.21  |  |          | 1740 | -2.24 |  |
| 29      | 0512 | -2.81 |  |          | 2356 | 2.89  |  |
|         | 1142 | 3.23  |  | 29       | 0610 | -1.98 |  |
| Th      | 1744 | -2.37 |  |          | 1235 | 2.35  |  |
|         |      |       |  | Sa       | 1847 | -1.82 |  |
| 30      | 0603 | 2.78  |  |          |      |       |  |
| F       | 0805 | -2.18 |  | 30       | 0035 | 3.22  |  |
|         | 1239 | 2.78  |  | Bu       | 0639 | -2.48 |  |
|         | 1842 | -2.07 |  |          | 1315 | 3.15  |  |
| 31      | 0109 | 2.53  |  |          | 1924 | -2.18 |  |
| Ba      | 0712 | -1.82 |  |          |      |       |  |
|         | 1351 | 2.57  |  |          |      |       |  |
|         | 1951 | -1.88 |  |          |      |       |  |

## MINEHEAD

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| March         |   |               |   | April         |   |               |   |
|---------------|---|---------------|---|---------------|---|---------------|---|
| Time          | m | Time          | m | Time          | m | Time          | m |
| 1 0111 2.37   |   | 16 0151 2.54  |   | 1 0311 2.88   |   | 16 0424 3.85  |   |
| M 0728 -1.71  |   | Tu 0813 -1.74 |   | Th 0930 -2.30 |   | F 1050 -3.08  |   |
| 1404 2.20     |   | 1443 2.48     |   | 1553 3.08     |   | 1851 3.88     |   |
| 2009 -1.75    |   | 2113 -1.70    |   | 2158 -2.84    |   | 2311 -3.28    |   |
| 2 0241 2.48   |   | 17 0330 2.98  |   | 2 0414 3.80   |   | 17 0515 4.81  |   |
| Tu 0858 -1.87 |   | 1001 -2.28    |   | F 1030 -3.08  |   | Sa 1135 -3.74 |   |
| 1531 2.55     |   | 1610 3.11     |   | 1846 3.88     |   | 1737 4.63     |   |
| 2131 -2.07    |   | 2238 -2.48    |   | 2252 -3.30    |   | 2353 -3.88    |   |
| 3 0357 2.94   |   | 18 0442 3.78  |   | 3 0504 4.38   |   | 18 0658 5.18  |   |
| W 1011 -2.38  |   | Th 1108 -3.08 |   | 1119 -3.77    |   | Su 1215 -4.18 |   |
| 1833 3.17     |   | 1712 3.91     |   | 1732 4.58     |   | 1819 4.88     |   |
| 2237 -2.84    |   | 2334 -3.28    |   | 2338 -4.01    |   |               |   |
| 4 0454 3.58   |   | 19 0537 4.80  |   | 4 0548 5.07   |   | 19 0631 5.43  |   |
| Th 1108 -2.98 |   | 1200 -3.79    |   | 1203 -4.33    |   | M 0636 5.44   |   |
| 1724 3.82     |   | F 1802 4.81   |   | 1813 5.14     |   | 1201 -4.41    |   |
| 2330 -3.25    |   |               |   |               |   | 1857 5.20     |   |
| 5 0542 4.22   |   | 20 0620 -3.95 |   | 5 0620 -4.51  |   | 20 0106 -4.38 |   |
| F 1153 -3.57  |   | 0824 5.24     |   | 0630 5.61     |   | 0716 5.47     |   |
| 1807 4.41     |   | 1243 -4.29    |   | 1242 -4.74    |   | 1324 -4.46    |   |
|               |   | 1845 5.09     |   | 1852 5.53     |   | 1832 5.23     |   |
| 6 0813 -3.61  |   | 21 0100 -4.39 |   | 6 0858 -4.85  |   | 21 0139 -4.34 |   |
| 0823 4.81     |   | Sa 0708 5.84  |   | F 0708 5.29   |   | 0750 5.08     |   |
| 1238 -4.07    |   | 1321 -4.87    |   | 1318 -4.98    |   | 1353 -4.35    |   |
| 1845 4.91     |   | 1925 5.35     |   | 1930 5.77     |   | 2003 5.10     |   |
| 7 0852 -4.27  |   | 22 0138 -4.80 |   | 7 0134 -4.89  |   | 22 0207 -4.17 |   |
| Sa 0700 5.31  |   | 0745 5.75     |   | 0745 6.04     |   | 0820 4.88     |   |
| 1312 -4.45    |   | 1354 -4.85    |   | 1352 -4.86    |   | 1419 -4.13    |   |
| 1921 5.28     |   | 2000 5.39     |   | 2006 5.77     |   | 2031 4.85     |   |
| 8 0127 -4.61  |   | 23 0208 -4.88 |   | 8 0207 -4.92  |   | 23 0233 -3.80 |   |
| M 0735 6.88   |   | 0818 5.82     |   | 0821 5.88     |   | 0846 4.63     |   |
| 1343 -4.70    |   | 1424 -4.53    |   | 1424 -4.74    |   | 1445 -3.83    |   |
| 1954 5.52     |   | 2032 5.23     |   | 2041 5.53     |   | 2057 4.62     |   |
| 9 0158 -4.81  |   | 24 0235 -4.39 |   | 9 0240 -4.82  |   | 24 0258 -3.86 |   |
| Tu 0808 5.89  |   | 0848 5.27     |   | 0857 5.40     |   | 0911 4.08     |   |
| 1415 -4.80    |   | 1449 -4.29    |   | 1455 -4.28    |   | 1511 -3.45    |   |
| 2027 5.58     |   | 2100 4.82     |   | 2118 5.03     |   | 2122 4.14     |   |
| 10 0227 -4.84 |   | 25 0300 -4.08 |   | 10 0314 -4.10 |   | 25 0327 -3.20 |   |
| W 0841 5.87   |   | 0915 4.78     |   | 0936 4.87     |   | 0838 3.82     |   |
| 1444 -4.72    |   | 1513 -3.94    |   | 1528 -3.81    |   | 1842 -3.01    |   |
| 2038 5.45     |   | 2124 4.52     |   | 2157 4.30     |   | 2153 3.71     |   |
| 11 0257 -4.88 |   | 26 0328 -3.88 |   | 11 0352 -3.35 |   | 26 0401 -2.78 |   |
| Th 0914 5.58  |   | 0838 4.22     |   | 1020 3.75     |   | 1014 3.14     |   |
| 1513 -4.43    |   | 1538 -3.81    |   | 1808 -2.77    |   | 1822 -2.81    |   |
| 2133 6.08     |   | 2151 -4.08    |   | 2247 3.43     |   | 2234 3.23     |   |
| 12 0328 -4.30 |   | 27 0354 -3.20 |   | 12 0442 -2.47 |   | 27 0449 -2.29 |   |
| F 0850 6.01   |   | 1007 3.82     |   | 1120 2.79     |   | 1105 2.68     |   |
| 1543 -3.90    |   | 1811 -2.98    |   | 1707 -1.88    |   | 1720 -2.04    |   |
| 2211 4.47     |   | 2221 3.84     |   |               |   | 2334 2.80     |   |
| 13 0408 -3.87 |   | 28 0430 -2.86 |   | 13 0503 2.64  |   | 28 0600 -1.98 |   |
| Sa 1033 4.19  |   | Su 1043 3.00  |   | 0808 -1.68    |   | 1219 2.40     |   |
| 1628 -3.14    |   | 1854 -2.38    |   | 1254 2.17     |   | 1840 -1.87    |   |
| 2300 3.68     |   | 2308 2.97     |   | 1904 -1.28    |   |               |   |
| 14 0458 -2.85 |   | 29 0523 -2.08 |   | 14 0148 2.43  |   | 29 0655 2.60  |   |
| Su 1130 3.25  |   | 1138 2.41     |   | 0823 -1.82    |   | 0725 -2.02    |   |
| 1722 -2.28    |   | 1757 -1.84    |   | 1439 2.34     |   | 1347 2.58     |   |
|               |   |               |   | 2112 -1.68    |   | 2003 -2.17    |   |
| 15 0008 2.89  |   | 30 0612 2.48  |   | 15 0320 3.00  |   | 30 0218 3.08  |   |
| M 0811 -2.03  |   | Th 0839 -1.71 |   | 0854 -2.30    |   | 0842 -2.52    |   |
| 1236 2.51     |   | 1308 2.12     |   | 1557 3.08     |   | 1901 3.10     |   |
| 1858 -1.57    |   | 1823 -1.84    |   | 2222 -2.51    |   | 2112 -2.78    |   |
|               |   |               |   |               |   |               |   |
|               |   | 31 0144 2.39  |   |               |   |               |   |
|               |   | W 0811 -1.81  |   |               |   |               |   |
|               |   | 1442 2.40     |   |               |   |               |   |
|               |   | 2050 -1.98    |   |               |   |               |   |

## MINEHEAD

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| May |      |       | June |      |       |
|-----|------|-------|------|------|-------|
|     | Time | m     |      | Time | m     |
| 1   | 0326 | 3.79  | 1    | 0433 | 5.01  |
| 1   | 0645 | -3.21 | 1    | 1048 | -4.18 |
| 3a  | 1800 | 3.93  | Tu   | 1704 | 4.99  |
|     | 2208 | -3.48 |      | 2312 | -4.32 |
| 2   | 0421 | 4.53  | 2    | 0527 | 5.30  |
| 2   | 1037 | -3.86 | 2    | 1139 | -4.41 |
| 3a  | 1851 | 4.03  | W    | 1756 | 5.31  |
|     | 2238 | -4.09 |      |      |       |
| 3   | 0511 | 5.18  | 3    | 0604 | -4.51 |
| 3   | 1125 | -4.41 | Th   | 0819 | 5.43  |
| M   | 1738 | 5.18  |      | 1230 | -4.48 |
|     | 2345 | -4.84 | O    | 1848 | 5.43  |
| 4   | 0557 | 5.52  | 4    | 0654 | -4.65 |
| 4   | 1209 | -4.74 | F    | 0709 | 5.39  |
| Tu  | 1823 | 5.58  |      | 1318 | -4.35 |
| O   |      |       |      | 1934 | 5.42  |
| 5   | 0629 | -4.80 | 5    | 0142 | -4.43 |
| 5   | 0842 | 5.54  | 5a   | 0757 | 5.18  |
| W   | 1252 | -4.86 |      | 1403 | -4.08 |
|     | 1908 | 5.73  |      | 2021 | 5.19  |
| 6   | 0111 | -4.87 | 6    | 0228 | -4.14 |
| 6   | 0724 | 5.51  |      | 0843 | 4.79  |
| Th  | 1332 | -4.75 | 6a   | 1448 | -3.70 |
|     | 1947 | 5.57  |      | 2107 | 4.79  |
| 7   | 0151 | -4.72 | 7    | 0314 | -3.87 |
| 7   | 0806 | 5.54  |      | 0830 | 4.25  |
| F   | 1408 | -4.43 | M    | 1531 | -3.21 |
|     | 2028 | 5.37  |      | 2155 | 4.25  |
| 8   | 0230 | -4.35 | 8    | 0401 | -3.10 |
| 8a  | 0848 | 5.02  | Tu   | 1019 | 3.62  |
|     | 1448 | -3.91 |      | 1819 | -2.67 |
|     | 2109 | 4.84  |      | 2248 | 3.68  |
| 9   | 0309 | -3.78 | 9    | 0456 | -2.32 |
| 9a  | 0830 | 4.30  | 9    | 1118 | 3.03  |
| 9a  | 1524 | -3.24 | W    | 1719 | -2.19 |
|     | 2154 | 4.12  |      | 2352 | 3.20  |
| 10  | 0353 | -3.05 | 10   | 0506 | -2.09 |
| 10  | 1019 | 3.47  | 10   | 1228 | 2.85  |
| M   | 1809 | -2.48 | Th   | 1835 | -1.94 |
|     | 2249 | 3.34  |      |      |       |
| 11  | 0450 | -2.27 | 11   | 0105 | 3.02  |
| 11  | 1123 | 2.69  | 11   | 0723 | -2.01 |
| Tu  | 1717 | -1.77 | F    | 1339 | 2.68  |
| C   |      |       |      | 1952 | -2.03 |
| 12  | 0505 | 2.74  | 12   | 0215 | 3.19  |
| 12  | 0820 | -1.72 | 12a  | 0833 | -2.26 |
| W   | 1249 | 3.28  | 12a  | 1445 | 2.87  |
|     | 1906 | -1.49 |      | 2058 | -2.38 |
| 13  | 0136 | 2.68  | 13   | 0318 | 3.68  |
| 13  | 0807 | -1.79 | 13a  | 0930 | -2.86 |
| Th  | 1418 | 2.48  | 13a  | 1542 | 3.44  |
|     | 2044 | -1.87 |      | 2152 | -2.77 |
| 14  | 0258 | 3.15  | 14   | 0408 | 3.83  |
| 14  | 0923 | -2.34 | 14   | 1018 | -3.08 |
| F   | 1527 | 3.08  | M    | 1631 | 3.89  |
|     | 2148 | -2.52 |      | 2240 | -3.13 |
| 15  | 0358 | 3.62  | 15   | 0455 | 4.21  |
| 15a | 1017 | -2.97 | 15   | 1101 | -3.38 |
|     | 1821 | 3.75  | Tu   | 1718 | 4.23  |
|     | 2236 | -3.13 |      | 2324 | -3.38 |
| 16  | 0444 | 4.41  | 16   | 0539 | 4.35  |
| 16  | 1100 | -3.50 | 16a  | 1143 | -3.53 |
| 16a | 1708 | 4.30  | W    | 1759 | 4.42  |
|     | 2319 | -3.59 |      |      |       |
| 17  | 0528 | 4.80  | 17   | 0607 | -3.51 |
| 17  | 1139 | -3.85 | 17   | 1221 | 4.36  |
| M   | 1745 | 4.68  | Th   | 1224 | -3.59 |
|     | 2353 | -3.68 |      | 1839 | 4.50  |
| 18  | 0609 | 4.97  | 18   | 0647 | -3.55 |
| 18  | 1217 | -4.04 | 18   | 0700 | 4.33  |
| Tu  | 1827 | 4.87  | F    | 1302 | -3.87 |
|     |      |       |      | 1918 | 4.47  |
| 19  | 0036 | -3.97 | 19   | 0124 | -3.53 |
| 19  | 0647 | 4.94  | 19a  | 0738 | 4.23  |
| 19a | 1251 | -4.08 |      | 1337 | -3.51 |
| 19a | 1904 | 4.89  |      | 1948 | 4.40  |
| 20  | 0111 | -3.94 | 20   | 0157 | -3.47 |
| 20  | 0723 | 4.78  | 20a  | 0809 | 4.13  |
| Th  | 1324 | -3.98 |      | 1408 | -3.43 |
|     | 1937 | 4.79  |      | 2019 | 4.31  |
| 21  | 0142 | -3.81 | 21   | 0227 | -3.39 |
| 21  | 0755 | 4.82  | 21   | 0838 | 4.03  |
| F   | 1354 | -3.78 | 21a  | 1439 | -3.35 |
|     | 2007 | 4.80  |      | 2048 | 4.24  |
| 22  | 0212 | -3.63 | 22   | 0255 | -3.32 |
| 22  | 0824 | 4.23  | 22   | 0908 | 3.85  |
| 22a | 1424 | -3.58 | Tu   | 1508 | -3.28 |
|     | 2035 | 4.36  |      | 2119 | 4.18  |
| 23  | 0239 | -3.41 | 23   | 0328 | -3.24 |
| 23  | 0852 | 3.95  | 23a  | 0939 | 3.88  |
| 23a | 1451 | -3.30 |      | 1543 | -3.20 |
|     | 2103 | 4.11  |      | 2158 | 4.10  |
| 24  | 0308 | -3.18 | 24   | 0403 | -3.13 |
| 24  | 0921 | 3.68  | 24   | 1018 | 3.73  |
| M   | 1523 | -3.03 | Th   | 1624 | -3.08 |
|     | 2134 | 3.85  |      | 2240 | 3.99  |
| 25  | 0342 | -2.91 | 25   | 0450 | -2.99 |
| 25  | 0955 | 3.40  | 25a  | 1108 | 3.58  |
| Tu  | 1601 | -2.74 |      | 1717 | -2.97 |
|     | 2214 | 3.57  |      | 2335 | 3.89  |
| 26  | 0425 | -2.83 | 26   | 0550 | -2.90 |
| 26  | 1041 | 3.13  | 26a  | 1208 | 3.49  |
| 26a | 1652 | -2.47 |      | 1821 | -3.93 |
|     | 2306 | 3.32  |      |      |       |
| 27  | 0524 | -2.41 | 27   | 0039 | 3.87  |
| 27  | 1142 | 2.84  | 27a  | 0657 | -2.95 |
| 27a | 1759 | -2.38 |      | 1317 | 3.67  |
|     |      |       |      | 1929 | -3.05 |
| 28  | 0013 | 3.25  | 28   | 0148 | 4.00  |
| 28  | 0636 | -2.42 | 28a  | 0806 | -3.18 |
| 28a | 1256 | 3.01  |      | 1426 | 3.64  |
|     | 1912 | -2.53 |      | 2037 | -3.30 |
| 29  | 0127 | 3.48  | 29   | 0258 | 4.25  |
| 29  | 0751 | -2.78 | 29   | 0912 | -3.43 |
| 29a | 1407 | 3.39  | Tu   | 1533 | 4.21  |
|     | 2021 | -2.97 |      | 2143 | -3.80 |
| 30  | 0236 | 3.98  | 30   | 0402 | 4.52  |
| 30  | 0858 | -3.28 | 30a  | 1017 | -3.86 |
| 30a | 1512 | 3.85  |      | 1636 | 4.69  |
|     | 2121 | -3.51 |      | 2247 | -3.88 |
| 31  | 0337 | 4.54  |      |      |       |
| 31  | 0954 | -3.80 |      |      |       |
|     | 1610 | 4.54  |      |      |       |
|     | 2218 | -3.89 |      |      |       |

## MINEHEAD

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| July        |                              |                                | August        |                              |                                |
|-------------|------------------------------|--------------------------------|---------------|------------------------------|--------------------------------|
| Time        | m                            |                                | Time          | m                            |                                |
| 1<br>Th     | 0505<br>1118<br>1730<br>2349 | 4.77<br>-3.86<br>4.90<br>-4.09 | 16<br>F       | 0559<br>1201<br>1817         | 3.97<br>-3.25<br>4.20          |
| 2<br>F<br>O | 0804<br>1218<br>1833         | 4.84<br>-4.00<br>5.14          | 17<br>Sa<br>● | 0027<br>0841<br>1244<br>1857 | -3.34<br>4.12<br>-3.41<br>4.38 |
| 3<br>Sa     | 0046<br>0700<br>1312<br>1928 | -4.25<br>5.05<br>-4.08<br>5.28 | 18<br>Su      | 0107<br>0718<br>1322<br>1932 | -3.49<br>4.24<br>-3.64<br>4.45 |
| 4<br>Su     | 0139<br>0751<br>1403<br>2015 | -4.30<br>5.05<br>-4.08<br>5.28 | 19<br>M       | 0142<br>0751<br>1355<br>2003 | -3.56<br>4.32<br>-3.83<br>4.55 |
| 5<br>M      | 0228<br>0839<br>1448<br>2102 | -4.19<br>4.69<br>-3.92<br>5.08 | 20<br>Tu      | 0212<br>0821<br>1425<br>2033 | -3.85<br>4.39<br>-3.71<br>4.68 |
| 6<br>Tu     | 0013<br>0624<br>1230<br>2148 | -3.92<br>4.56<br>-3.83<br>4.72 | 21<br>W       | 0240<br>0850<br>1452<br>2102 | -3.70<br>4.43<br>-3.78<br>4.74 |
| 7<br>W      | 0357<br>1008<br>1612<br>2230 | -3.51<br>4.09<br>-3.24<br>4.24 | 22<br>Th      | 0308<br>0919<br>1521<br>2134 | -3.74<br>4.43<br>-3.80<br>4.78 |
| 8<br>Th     | 0440<br>1054<br>1655<br>2323 | -3.03<br>3.56<br>-2.80<br>3.73 | 23<br>F       | 0339<br>0954<br>1654<br>2212 | -3.71<br>4.35<br>-3.72<br>4.85 |
| 9<br>F<br>C | 0828<br>1145<br>1748         | -2.57<br>3.08<br>-2.40         | 24<br>Sa      | 0418<br>1035<br>1636<br>2258 | -3.57<br>4.15<br>-3.52<br>4.38 |
| 10<br>Sa    | 0019<br>0624<br>1248<br>1848 | 3.30<br>-2.26<br>2.79<br>-2.15 | 25<br>Su<br>J | 0504<br>1127<br>1731<br>2355 | -3.31<br>3.86<br>-3.21<br>4.03 |
| 11<br>Su    | 0122<br>0727<br>1352<br>1955 | 3.07<br>-2.18<br>2.77<br>-2.12 | 26<br>M       | 0605<br>1231<br>1839         | -3.01<br>3.59<br>-2.94         |
| 12<br>M     | 0227<br>0830<br>1458<br>2100 | 3.08<br>-2.27<br>3.00<br>-2.30 | 27<br>Tu      | 0105<br>0718<br>1346<br>1957 | 3.74<br>-2.80<br>3.50<br>-2.85 |
| 13<br>Tu    | 0328<br>0930<br>1554<br>2200 | 3.28<br>-2.52<br>3.35<br>-2.58 | 28<br>W       | 0223<br>0838<br>1505<br>2118 | 3.68<br>-2.79<br>3.68<br>-3.01 |
| 14<br>W     | 0423<br>1024<br>1645<br>2254 | 3.52<br>-2.81<br>3.71<br>-2.89 | 29<br>Th      | 0342<br>0956<br>1620<br>2238 | 3.84<br>-3.01<br>4.07<br>-3.36 |
| 15<br>Th    | 0513<br>1114<br>1733<br>2343 | 3.78<br>-3.05<br>3.99<br>-3.15 | 30<br>F       | 0484<br>1111<br>1728<br>2344 | 4.21<br>-3.37<br>4.58<br>-3.78 |
|             |                              |                                | 31<br>Sa<br>O | 0558<br>1213<br>1824         | 4.83<br>-3.79<br>5.04          |
|             |                              |                                | 1<br>Su       | 0042<br>0651<br>1308<br>1917 | -4.17<br>4.99<br>-4.14<br>5.41 |
|             |                              |                                | 2<br>M        | 0134<br>0741<br>1358<br>2005 | -4.42<br>5.20<br>-4.36<br>5.59 |
|             |                              |                                | 3<br>Tu       | 0220<br>0828<br>1437<br>2048 | -4.48<br>5.21<br>-4.38<br>5.54 |
|             |                              |                                | 4<br>W        | 0300<br>0908<br>1513<br>2128 | -4.33<br>5.00<br>-4.18<br>5.25 |
|             |                              |                                | 5<br>Th       | 0338<br>0944<br>1548<br>2208 | -3.99<br>4.59<br>-3.81<br>4.75 |
|             |                              |                                | 6<br>F        | 0409<br>1021<br>1619<br>2244 | -3.54<br>4.07<br>-3.34<br>4.13 |
|             |                              |                                | 7<br>Sa<br>C  | 0443<br>1100<br>1657<br>2328 | -3.03<br>3.50<br>-2.81<br>3.48 |
|             |                              |                                | 8<br>Su       | 0525<br>1148<br>1745         | -2.54<br>-2.14<br>-2.31        |
|             |                              |                                | 9<br>M        | 0619<br>0818<br>1248<br>1848 | 2.91<br>-2.14<br>2.83<br>-1.94 |
|             |                              |                                | 10<br>Tu      | 0127<br>0725<br>1400<br>2004 | 2.57<br>-1.93<br>2.55<br>-1.88 |
|             |                              |                                | 11<br>W       | 0244<br>0839<br>1514<br>2121 | 2.66<br>-2.00<br>2.79<br>-2.09 |
|             |                              |                                | 12<br>Th      | 0352<br>0949<br>1617<br>2227 | 2.80<br>-2.30<br>3.22<br>-2.51 |
|             |                              |                                | 13<br>F       | 0449<br>1049<br>1708<br>2320 | 3.34<br>-2.73<br>3.66<br>-2.86 |
|             |                              |                                | 14<br>Sa      | 0537<br>1139<br>1754         | 3.79<br>-3.15<br>4.11          |
|             |                              |                                | 15<br>Su      | 0608<br>0819<br>1223<br>1834 | -3.36<br>4.18<br>-3.83<br>4.47 |
|             |                              |                                | 16<br>M<br>●  | 0046<br>0656<br>1301<br>1910 | -3.88<br>4.48<br>-4.49<br>4.77 |
|             |                              |                                | 17<br>Tu      | 0121<br>0729<br>1334<br>1942 | -3.92<br>4.73<br>-4.07<br>5.03 |
|             |                              |                                | 18<br>W       | 0181<br>0800<br>1403<br>2012 | -4.10<br>4.68<br>-4.23<br>5.22 |
|             |                              |                                | 19<br>Th      | 0218<br>0828<br>1430<br>2040 | -4.22<br>4.98<br>-4.32<br>5.33 |
|             |                              |                                | 20<br>F       | 0245<br>0857<br>1456<br>2111 | -4.27<br>4.98<br>-4.32<br>5.39 |
|             |                              |                                | 21<br>Sa      | 0312<br>0928<br>1528<br>2145 | -4.20<br>4.95<br>-4.18<br>5.04 |
|             |                              |                                | 22<br>Su      | 0344<br>1005<br>1602<br>2228 | -3.85<br>4.52<br>-3.83<br>4.65 |
|             |                              |                                | 23<br>M       | 0424<br>1051<br>1650<br>2318 | -3.48<br>4.00<br>-3.27<br>3.87 |
|             |                              |                                | 24<br>Tu      | 0518<br>1152<br>1755         | -2.84<br>-3.40<br>-2.04        |
|             |                              |                                | 25<br>W       | 0030<br>0633<br>1315<br>1928 | 3.21<br>-2.24<br>2.98<br>-2.24 |
|             |                              |                                | 26<br>Th      | 0202<br>0819<br>1451<br>2113 | 2.93<br>-2.08<br>3.10<br>-2.42 |
|             |                              |                                | 27<br>F       | 0335<br>0958<br>1614<br>2238 | 3.23<br>-2.48<br>3.70<br>-3.03 |
|             |                              |                                | 28<br>Sa      | 0449<br>1111<br>1720<br>2342 | 3.89<br>-3.18<br>4.47<br>-3.72 |
|             |                              |                                | 29<br>Su      | 0548<br>1208<br>1815         | 4.57<br>-3.87<br>5.17          |
|             |                              |                                | 30<br>M<br>O  | 0034<br>0639<br>1256<br>1903 | -4.28<br>5.11<br>-4.60<br>5.37 |
|             |                              |                                | 31<br>Tu      | 0120<br>0724<br>1336<br>1946 | -4.64<br>5.43<br>-4.68<br>5.66 |

## MINEHEAD

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| September |      |       | October |      |       |
|-----------|------|-------|---------|------|-------|
| Time      | m    |       | Time    | m    |       |
| 1         | 0200 | -4.75 | 1       | 0127 | -4.81 |
| W         | 0805 | 5.30  | F       | 0813 | 5.44  |
|           | 1415 | -4.73 |         | 1418 | -4.57 |
|           | 2025 | 5.87  |         | 2031 | 5.48  |
| 2         | 0235 | -4.85 | 2       | 0233 | -4.42 |
| Th        | 0841 | 5.33  | Sa      | 0844 | 5.10  |
|           | 1447 | -4.54 |         | 1445 | -4.21 |
|           | 2100 | 5.54  |         | 2100 | 4.93  |
| 3         | 0305 | -4.34 | 3       | 0258 | -4.01 |
| F         | 0914 | 4.98  | Su      | 0911 | -4.84 |
|           | 1515 | -4.18 |         | 1510 | -3.75 |
|           | 2133 | 5.00  |         | 2127 | 4.28  |
| 4         | 0333 | -3.90 | 4       | 0324 | -3.52 |
| Sa        | 0945 | 4.45  | M       | 0938 | 4.10  |
|           | 1542 | -3.86 |         | 1538 | -3.22 |
|           | 2203 | 4.31  |         | 2155 | 3.81  |
| 5         | 0400 | -3.38 | 5       | 0354 | -2.95 |
| Su        | 1015 | 3.88  | Tu      | 1008 | 3.51  |
|           | 1613 | -3.09 |         | 1613 | -2.63 |
|           | 2235 | 3.58  |         | 2230 | 2.93  |
| 6         | 0434 | -2.80 | 6       | 0435 | -2.32 |
| M         | 1050 | 3.26  | W       | 1048 | 2.88  |
| C         | 1653 | -2.48 | C       | 1703 | -2.02 |
|           | 2318 | 2.86  |         | 2322 | 2.31  |
| 7         | 0519 | -2.21 | 7       | 0538 | -1.73 |
| Tu        | 1139 | 2.88  | Th      | 1154 | 2.34  |
|           | 1748 | -1.91 |         | 1818 | -1.58 |
| 8         | 0519 | 2.28  | 8       | 0550 | 1.97  |
| W         | 0825 | -1.73 | F       | 0704 | -1.50 |
|           | 1254 | 2.29  |         | 1330 | 2.22  |
|           | 1909 | -1.59 |         | 1954 | -1.65 |
| 9         | 0151 | 2.09  | 9       | 0230 | 2.28  |
| Th        | 0751 | -1.61 | Sa      | 0833 | -1.84 |
|           | 1427 | 2.35  |         | 1458 | 2.89  |
|           | 2041 | -1.75 |         | 2115 | -2.21 |
| 10        | 0318 | 2.46  | 10      | 0339 | 2.98  |
| F         | 0915 | -1.98 | Su      | 0942 | -2.53 |
|           | 1545 | 2.86  |         | 1600 | 3.46  |
|           | 2158 | -2.29 |         | 2212 | -2.94 |
| 11        | 0421 | 3.11  | 11      | 0430 | 3.74  |
| Sa        | 1021 | -2.58 | M       | 1033 | -3.27 |
|           | 1641 | 3.52  |         | 1647 | 4.23  |
|           | 2251 | -2.92 |         | 2300 | -3.63 |
| 12        | 0509 | 3.77  | 12      | 0513 | 4.43  |
| Su        | 1112 | -3.21 | Tu      | 1118 | -3.90 |
|           | 1728 | 4.18  |         | 1729 | 4.89  |
|           | 2337 | -3.50 |         | 2341 | -4.18 |
| 13        | 0550 | 4.34  | 13      | 0552 | 4.97  |
| M         | 1154 | -3.78 | W       | 1157 | -4.38 |
|           | 1803 | 4.72  |         | 1808 | 5.39  |
| 14        | 0617 | -3.97 | 14      | 0619 | -4.87 |
| Tu        | 0827 | 4.79  | Th      | 0830 | 5.36  |
| ●         | 1232 | -4.19 |         | 1235 | -4.88 |
|           | 1841 | 5.16  |         | 1845 | 5.70  |
| 15        | 0652 | -4.32 | 15      | 0654 | -4.78 |
| W         | 0701 | 5.12  | F       | 0706 | 5.59  |
|           | 1308 | -4.48 |         | 1310 | -4.83 |
|           | 1915 | 5.49  |         | 1921 | 5.82  |
| 16        | 0124 | -4.55 | 16      | 0127 | -4.81 |
| Th        | 0733 | 5.34  |         | 0741 | 5.63  |
|           | 1338 | -4.66 |         | 1343 | -4.81 |
|           | 1948 | 5.66  |         | 1958 | 5.71  |
| 17        | 0153 | -4.85 | 17      | 0158 | -4.85 |
| F         | 0804 | 5.43  | Su      | 0815 | 5.48  |
|           | 1405 | -4.70 |         | 1418 | -4.60 |
|           | 2017 | 5.70  |         | 2031 | 5.36  |
| 18        | 0220 | -4.81 | 18      | 0229 | -4.28 |
| Sa        | 0834 | 5.36  | M       | 0850 | 6.10  |
|           | 1433 | -4.81 |         | 1447 | -4.19 |
|           | 2048 | 5.50  |         | 2108 | 4.77  |
| 19        | 0247 | -4.41 | 19      | 0300 | -3.73 |
| Su        | 0908 | 5.10  | Tu      | 0928 | 4.48  |
|           | 1502 | -4.33 |         | 1623 | -3.56 |
|           | 2122 | 5.08  |         | 2149 | 3.98  |
| 20        | 0317 | -4.00 | 20      | 0337 | -2.88 |
| M         | 0941 | 4.81  | W       | 1013 | 3.67  |
|           | 1536 | -3.82 |         | 1609 | -2.73 |
|           | 2201 | 4.35  |         | 2243 | 3.04  |
| 21        | 0353 | -3.34 | 21      | 0429 | -2.10 |
| Tu        | 1024 | 3.89  | Th      | 1119 | 2.82  |
|           | 1620 | -3.07 |         | 1720 | -1.87 |
|           | 2282 | 3.45  |         |      |       |
| 22        | 0443 | -2.48 | 22      | 0508 | 2.28  |
| W         | 1125 | 3.07  | F       | 0608 | -1.36 |
|           | 1729 | -2.21 |         | 1301 | 2.40  |
|           |      |       |         | 1933 | -1.58 |
| 23        | 0509 | 2.82  | 23      | 0157 | 2.25  |
| Th        | 0808 | -1.86 | Sa      | 0830 | -1.55 |
|           | 1302 | 2.52  |         | 1442 | 2.84  |
|           | 1921 | -1.71 |         | 2119 | -2.16 |
| 24        | 0158 | 2.38  | 24      | 0323 | 2.83  |
| F         | 0825 | -1.87 | Su      | 0951 | -2.40 |
|           | 1450 | 2.79  |         | 1554 | 3.72  |
|           | 2123 | -2.13 |         | 2221 | -3.01 |
| 25        | 0334 | 2.96  | 25      | 0423 | 3.80  |
| Sa        | 1003 | -2.34 | M       | 1044 | -3.27 |
|           | 1608 | 3.64  |         | 1648 | 4.59  |
|           | 2237 | -2.99 |         | 2309 | -3.75 |
| 26        | 0442 | 3.84  | 26      | 0512 | 4.56  |
| Su        | 1104 | -3.28 | Tu      | 1128 | -3.94 |
|           | 1709 | 4.57  |         | 1733 | 5.23  |
|           | 2331 | -3.80 |         | 2351 | -4.27 |
| 27        | 0533 | 4.83  | 27      | 0554 | 5.08  |
| M         | 1152 | -4.02 | W       | 1208 | -4.36 |
|           | 1757 | 5.32  |         | 1815 | 5.58  |
| 28        | 0616 | -4.39 | 28      | 0629 | -4.54 |
| Tu        | 0819 | 5.20  | Th      | 0835 | 5.36  |
| O         | 1235 | -4.53 |         | 1245 | -4.84 |
|           | 1842 | 5.80  |         | 1858 | 5.84  |
| 29        | 0657 | -4.73 | 29      | 0103 | 4.80  |
| W         | 0701 | 5.52  | F       | 0712 | 5.41  |
|           | 1313 | -4.78 |         | 1320 | -4.50 |
|           | 1921 | 5.98  |         | 1931 | 5.48  |
| 30        | 0133 | -4.82 | 30      | 0135 | -4.47 |
| Th        | 0736 | 5.58  | Sa      | 0746 | 5.28  |
|           | 1348 | -4.77 |         | 1351 | -4.31 |
|           | 1958 | 5.84  |         | 2004 | 5.11  |
|           |      |       | 31      | 0204 | -4.21 |
|           |      |       | Su      | 0817 | 4.98  |
|           |      |       |         | 1419 | -4.02 |
|           |      |       |         | 2033 | 4.84  |

# MINEHEAD

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| November |            |      |            | December |            |      |            |
|----------|------------|------|------------|----------|------------|------|------------|
| Time     | m          | Time | m          | Time     | m          | Time | m          |
| 1        | 0230 -3.87 | 16   | 0221 -4.01 | 1        | 0242 -3.42 | 16   | 0309 -3.39 |
| M        | 0844 4.62  | Tu   | 0844 4.99  | W        | 0853 4.22  | Th   | 0830 4.68  |
|          | 1445 -3.86 |      | 1445 -3.86 |          | 1458 -3.27 |      | 1536 -3.51 |
|          | 2100 4.14  |      | 2105 4.51  |          | 2111 3.77  |      | 2152 4.07  |
| 2        | 0257 -3.47 | 17   | 0259 -3.46 | 2        | 0312 -3.16 | 17   | 0353 -3.12 |
| Tu       | 0910 4.18  | W    | 0927 4.39  | Th       | 0923 3.93  | F    | 1019 4.14  |
|          | 1513 -3.24 |      | 1525 -3.34 |          | 1529 -3.00 |      | 1625 -2.94 |
|          | 2127 3.62  |      | 2151 3.78  |          | 2142 3.48  |      | 2243 3.48  |
| 3        | 0327 -3.01 | 18   | 0342 -2.78 | 3        | 0346 -2.86 | 18   | 0444 -2.61 |
| W        | 0939 3.69  | Th   | 1017 3.67  | F        | 0957 3.64  | Sa   | 1115 3.60  |
|          | 1546 -2.77 |      | 1517 -2.59 |          | 1606 -2.70 |      | 1725 -2.40 |
|          | 2200 3.11  |      | 2247 3.01  |          | 2221 3.18  |      | 2344 2.93  |
| 4        | 0408 -2.50 | 19   | 0439 -2.08 | 4        | 0430 -2.57 | 19   | 0548 -2.16 |
| Th       | 1018 3.18  | F    | 1124 3.00  | Sa       | 1043 3.38  | Su   | 1222 3.22  |
|          | 1630 -2.27 |      | 1733 -1.93 |          | 1656 -2.43 |      | 1839 -2.09 |
|          | 2246 2.62  |      |            |          | 2313 2.82  |      |            |
| 5        | 0500 -2.01 | 20   | 0504 2.44  | 5        | 0529 -2.35 | 20   | 0556 2.86  |
| F        | 1112 2.71  | Sa   | 0612 -1.80 |          | 1142 3.17  | M    | 0706 -2.00 |
|          | 1736 -1.87 |      | 1251 2.72  |          | 1806 -2.30 |      | 1336 3.14  |
|          | 2355 2.29  |      | 1921 -1.75 |          |            |      | 1955 -2.12 |
| 6        | 0616 -1.75 | 21   | 0136 2.40  | 6        | 0621 2.83  | 21   | 0209 2.77  |
| Sa       | 1231 2.51  | Su   | 0802 -1.75 |          | 0839 -2.35 |      | 0823 -2.15 |
|          | 1900 -1.83 |      | 1410 3.02  | M        | 1252 3.23  | Tu   | 1444 3.35  |
|          |            |      | 2049 -2.18 |          | 1918 -2.47 |      | 2102 -2.42 |
| 7        | 0124 2.37  | 22   | 0254 2.89  | 7        | 0134 3.04  | 22   | 0314 3.16  |
| Su       | 0739 -1.95 | M    | 0917 -2.35 | Tu       | 0748 -2.82 | W    | 0827 -2.50 |
|          | 1356 2.80  |      | 1525 3.86  |          | 1403 3.56  |      | 1543 3.69  |
|          | 2020 -2.28 |      | 2151 -2.63 |          | 2025 -2.88 |      | 2157 -2.82 |
| 8        | 0240 2.90  | 23   | 0354 3.56  | 8        | 0242 3.51  | 23   | 0409 3.63  |
| M        | 0849 -2.53 | Tu   | 1012 -3.00 | W        | 0853 -3.07 | Th   | 1022 -2.89 |
|          | 1506 3.46  |      | 1519 4.30  |          | 1508 4.04  |      | 1636 4.01  |
|          | 2123 -2.93 |      | 2238 -3.41 |          | 2126 -3.36 |      | 2248 -3.17 |
| 9        | 0340 3.63  | 24   | 0443 4.21  | 9        | 0343 4.07  | 24   | 0459 4.05  |
| Tu       | 0946 -3.72 | W    | 1057 -3.53 | Th       | 0951 -3.56 | F    | 1110 -3.21 |
|          | 1600 4.20  |      | 1706 4.76  |          | 1606 4.52  |      | 1723 4.24  |
|          | 2216 -3.60 |      | 2320 -3.84 |          | 2221 -3.81 |      | 2330 -3.42 |
| 10       | 0430 4.33  | 25   | 0527 4.67  | 10       | 0439 4.59  | 25   | 0544 4.35  |
| W        | 1036 -3.83 | Th   | 1139 -3.87 | F        | 1047 -3.85 | Sa   | 1155 -3.44 |
|          | 1648 4.84  |      | 1748 5.00  |          | 1702 4.90  |      | 1807 4.37  |
|          | 2301 -4.15 |      | 2358 -4.07 |          | 2316 -4.11 |      |            |
| 11       | 0516 4.81  | 26   | 0608 4.93  | 11       | 0531 4.99  | 26   | 0612 -3.57 |
| Th       | 1121 -4.30 | F    | 1218 -4.03 | Sa       | 1140 -4.24 | Su   | 0626 4.53  |
|          | 1733 5.30  |      | 1829 5.03  |          | 1754 5.14  | O    | 1237 -3.57 |
|          | 2345 -4.51 |      |            |          |            |      | 1649 4.41  |
| 12       | 0559 5.32  | 27   | 0636 -4.13 | 12       | 0606 -4.27 | 27   | 0652 -3.94 |
| F        | 1205 -4.59 | Sa   | 0847 5.01  |          | 0822 5.26  | M    | 0708 4.59  |
|          | 1817 5.56  |      | 1258 -4.04 |          | 1231 -4.41 |      | 1315 -3.63 |
|          |            |      | 1907 4.90  |          | 1845 5.25  |      | 1827 4.38  |
| 13       | 0627 -4.87 | 28   | 0110 -4.05 | 13       | 0656 -4.29 | 28   | 0129 -3.68 |
| Sa       | 0841 5.84  | Su   | 0723 4.94  |          | 0711 5.37  | Tu   | 0741 4.67  |
|          | 1247 -4.72 |      | 1330 -3.93 |          | 1320 -4.44 |      | 1349 -3.61 |
|          | 1900 5.62  |      | 1942 4.67  |          | 1933 5.21  |      | 2000 4.31  |
| 14       | 0106 -4.63 | 29   | 0142 -3.89 | 14       | 0142 -4.19 | 29   | 0201 -3.63 |
| Su       | 0722 5.57  | M    | 0756 4.76  | Tu       | 0757 5.32  | W    | 0812 4.51  |
|          | 1327 -4.68 |      | 1401 -3.75 |          | 1406 -4.30 |      | 1419 -3.58 |
|          | 1942 5.48  |      | 2015 4.37  |          | 2020 5.00  |      | 2030 4.22  |
| 15       | 0143 -4.41 | 30   | 0212 -3.67 | 15       | 0231 -3.98 | 30   | 0231 -3.58 |
| M        | 0803 5.39  | Tu   | 0826 4.90  | W        | 0843 5.06  | Th   | 0841 4.43  |
|          | 1406 -4.41 |      | 1430 -3.53 |          | 1451 -3.98 |      | 1447 -3.48 |
|          | 2023 5.06  |      | 2043 4.08  |          | 2109 4.81  |      | 2057 4.12  |
|          |            |      |            |          |            | 31   | 0300 -3.52 |
|          |            |      |            |          |            | F    | 0809 4.38  |
|          |            |      |            |          |            |      | 1515 -3.40 |
|          |            |      |            |          |            |      | 2125 4.02  |

# HINKLEY POINT

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| January |            |      |            | February |            |      |            |
|---------|------------|------|------------|----------|------------|------|------------|
| Time    | m          | Time | m          | Time     | m          | Time | m          |
| 1       | 0108 3.06  | 16   | 0014 3.66  | 1        | 0208 2.84  | 16   | 0209 3.11  |
| Th      | 0708 -2.36 | F    | 0812 -3.01 | Su       | 0819 -1.98 | M    | 0828 -2.66 |
|         | 1345 3.34  |      | 1243 3.88  |          | 1454 2.87  |      | 1453 3.22  |
|         | 1945 -2.64 |      | 1847 -2.92 |          | 2088 -2.23 |      | 2112 -2.57 |
| 2       | 0213 3.04  | 17   | 0122 3.48  | 2        | 0329 2.83  | 17   | 0342 3.64  |
| F       | 0817 -2.36 | Sa   | 0728 -2.82 | M        | 0838 -2.34 | Tu   | 1003 -3.04 |
|         | 1449 3.36  |      | 1355 3.75  |          | 1608 3.08  |      | 1624 3.78  |
|         | 2031 -2.64 |      | 2007 -2.86 |          | 2210 -2.70 |      | 2245 -3.25 |
| 3       | 0318 3.25  | 18   | 0239 3.61  | 3        | 0435 3.44  | 18   | 0500 4.37  |
| Sa      | 0924 -2.64 | Su   | 0851 -2.98 |          | 1045 -2.92 |      | 1120 -3.85 |
|         | 1550 3.59  |      | 1513 3.81  |          | 1708 3.68  |      | 1733 4.60  |
|         | 2162 -2.93 |      | 2131 -3.08 |          | 2309 -3.26 |      | 2351 -4.06 |
| 4       | 0415 3.63  | 19   | 0358 4.07  | 4        | 0526 4.09  | 19   | 0600 5.21  |
| Su      | 1022 -2.96 | M    | 1012 -3.39 |          | 1137 -3.49 |      | 1218 -4.69 |
|         | 1642 3.92  |      | 1829 4.34  |          | 1784 4.26  |      | 1828 5.30  |
|         | 2248 -3.31 |      | 2251 -3.57 |          | 2357 -3.79 |      |            |
| 5       | 0504 4.10  | 20   | 0506 4.70  | 5        | 0610 4.83  | 20   | 0644 -4.70 |
| M       | 1132 -3.39 | Tu   | 1129 -3.97 | Th       | 1222 -3.94 | F    | 0849 5.61  |
|         | 1738 4.28  |      | 1738 4.68  |          | 1836 4.72  |      | 1308 -5.08 |
|         | 2333 -3.68 |      | 2357 -4.13 |          |            |      | 1914 5.78  |
| 6       | 0548 4.51  | 21   | 0605 5.33  | 6        | 0641 -4.19 | 21   | 0128 -6.08 |
| Tu      | 1186 -3.71 | W    | 1225 -4.52 | F        | 0848 5.05  | Sa   | 0733 6.14  |
|         | 1812 4.57  |      | 1833 5.38  |          | 1304 -4.28 |      | 1351 -6.32 |
|         |            |      |            |          | 1914 5.08  |      | 1954 6.06  |
| 7       | 0615 -3.96 | 22   | 0652 -4.58 | 7        | 0121 -4.49 | 22   | 0208 -6.21 |
| W       | 0827 4.82  | Th   | 0857 5.81  | Sa       | 0727 5.37  | Su   | 0812 6.23  |
| O       | 1237 -3.95 |      | 1318 -4.82 |          | 1344 -4.55 |      | 1428 -6.32 |
|         | 1851 4.78  |      | 1924 5.71  |          | 1950 5.37  |      | 2030 5.92  |
| 8       | 0684 -4.14 | 23   | 0141 -4.86 | 8        | 0200 -4.73 | 23   | 0242 -6.12 |
| Th      | 0704 5.02  | F    | 0745 6.07  | Su       | 0803 5.63  |      | 0848 6.06  |
|         | 1318 -4.09 |      | 1408 -5.10 |          | 1421 -4.75 |      | 1500 -6.13 |
|         | 1927 4.91  |      | 2010 5.83  |          | 2028 5.56  |      | 2103 5.66  |
| 9       | 0133 -4.24 | 24   | 0224 -4.92 | 9        | 0238 -4.87 | 24   | 0310 -4.86 |
| F       | 0739 5.14  | Sa   | 0830 6.09  | M        | 0838 5.78  | Tu   | 0920 5.72  |
|         | 1354 -4.18 |      | 1448 -5.05 |          | 1457 -4.83 |      | 1527 -4.78 |
|         | 2003 4.99  |      | 2052 5.71  |          | 2102 5.58  |      | 2133 5.28  |
| 10      | 0209 -4.28 | 25   | 0303 -4.77 | 10       | 0312 -4.86 | 25   | 0335 -4.48 |
| Sa      | 0815 5.21  | Su   | 0911 6.88  | Tu       | 0918 5.74  |      | 0949 5.18  |
|         | 1430 -4.19 |      | 1528 -4.80 |          | 1531 -4.72 |      | 1651 -4.33 |
|         | 2039 5.01  |      | 2130 5.35  |          | 2137 5.38  |      | 2159 4.71  |
| 11      | 0243 -4.28 | 26   | 0338 -4.48 | 11       | 0348 -4.84 | 26   | 0357 -4.03 |
| Su      | 0851 5.21  | M    | 0948 5.47  | W        | 0953 5.46  | Th   | 1017 4.62  |
|         | 1506 -4.18 |      | 1557 -4.40 |          | 1603 -4.42 |      | 1614 -3.83 |
|         | 2115 4.93  |      | 2208 4.89  |          | 2213 4.95  |      | 2225 4.09  |
| 12      | 0321 -4.18 | 27   | 0408 -4.03 | 12       | 0417 -4.26 | 27   | 0421 -3.50 |
| M       | 0830 5.09  | Tu   | 1024 4.91  | Th       | 1030 4.98  | F    | 1043 3.60  |
|         | 1342 -4.02 |      | 1627 -3.83 |          | 1638 -3.88 |      | 1641 -3.25 |
|         | 2154 4.71  |      | 2239 4.33  |          | 2251 4.40  |      | 2254 3.43  |
| 13      | 0357 -3.94 | 28   | 0434 -3.88 | 13       | 0451 -3.77 | 28   | 0451 -2.88 |
| Tu      | 1009 4.84  | W    | 1100 4.28  | F        | 1112 4.38  | Sa   | 1121 3.05  |
|         | 1819 -3.79 |      | 1857 -3.45 |          | 1712 -3.47 |      | 1717 -2.58 |
|         | 2233 4.38  |      | 2312 3.74  |          | 2338 3.80  |      | 2337 2.76  |
| 14      | 0434 -3.83 | 29   | 0506 -3.10 | 14       | 0536 -3.21 | 29   | 0537 -2.18 |
| W       | 1052 4.51  | Th   | 1136 3.86  | Sa       | 1208 3.75  | Su   | 1218 2.36  |
|         | 1658 -3.50 |      | 1733 -2.98 |          | 1805 -2.90 |      | 1815 -1.90 |
|         | 2318 3.98  |      | 2353 3.18  |          |            |      |            |
| 15      | 0518 -3.32 | 30   | 0547 -2.57 | 15       | 0642 3.28  |      |            |
| Th      | 1142 4.15  | F    | 1227 3.08  | Su       | 0648 -2.68 |      |            |
| C       | 1745 -3.18 |      | 1822 -2.44 |          | 1321 3.28  |      |            |
|         |            |      |            |          | 1930 -2.45 |      |            |
|         |            | 31   | 0648 2.71  |          |            |      |            |
|         |            | Sa   | 0650 -2.09 |          |            |      |            |
|         |            |      | 1333 2.88  |          |            |      |            |
|         |            |      | 1838 -2.12 |          |            |      |            |

**HINKLEY POINT**

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| March |            |  | April |            |  |
|-------|------------|--|-------|------------|--|
| Time  | m          |  | Time  | m          |  |
| 1     | 0030 2.21  |  | 1     | 0316 2.77  |  |
| M     | 0703 -1.61 |  | Th    | 0639 -2.46 |  |
|       | 1350 2.04  |  |       | 1601 3.13  |  |
|       | 2003 -1.66 |  |       | 2209 -2.82 |  |
| 2     | 0236 2.25  |  | 2     | 0423 3.73  |  |
| Tu    | 0900 -1.85 |  | F     | 1042 -3.36 |  |
|       | 1531 2.46  |  |       | 1656 4.12  |  |
|       | 2136 -2.19 |  |       | 2306 -3.70 |  |
| 3     | 0403 2.96  |  | 3     | 0514 4.64  |  |
| W     | 1018 -2.61 |  | Sa    | 1133 -4.13 |  |
|       | 1639 3.30  |  |       | 1742 4.95  |  |
|       | 2244 -2.99 |  |       | 2354 -4.41 |  |
| 4     | 0500 3.84  |  | 4     | 0556 5.35  |  |
| Th    | 1115 -3.41 |  | Su    | 1219 -4.70 |  |
|       | 1730 4.15  |  |       | 1824 5.56  |  |
|       | 2336 -3.74 |  |       |            |  |
| 5     | 0547 4.81  |  | 5     | 0638 -4.93 |  |
| F     | 1203 -4.07 |  | M     | 0640 5.87  |  |
|       | 1814 4.85  |  | O     | 1301 -5.15 |  |
|       |            |  |       | 1904 5.98  |  |
| 6     | 0621 -4.34 |  | 6     | 0118 -5.29 |  |
| Sa    | 0826 5.22  |  | Tu    | 0720 6.21  |  |
| O     | 1246 -4.56 |  |       | 1341 -5.34 |  |
|       | 1853 5.37  |  |       | 1942 6.21  |  |
| 7     | 0103 -4.79 |  | 7     | 0157 -5.48 |  |
| Su    | 0707 5.68  |  | W     | 0758 -6.35 |  |
|       | 1327 -4.93 |  |       | 1418 -5.37 |  |
|       | 1930 5.78  |  |       | 2019 -6.21 |  |
| 8     | 0142 -5.13 |  | 8     | 0233 -5.41 |  |
| M     | 0745 6.03  |  | Th    | 0836 6.21  |  |
|       | 1404 -5.19 |  |       | 1451 -5.16 |  |
|       | 2006 6.01  |  |       | 2056 5.94  |  |
| 9     | 0220 -5.33 |  | 9     | 0308 -5.09 |  |
| Tu    | 0821 6.21  |  | F     | 0915 5.75  |  |
|       | 1440 -5.27 |  |       | 1524 -4.70 |  |
|       | 2042 6.03  |  |       | 2133 5.38  |  |
| 10    | 0254 -5.31 |  | 10    | 0341 -4.65 |  |
| W     | 0857 6.13  |  | Sa    | 0954 6.04  |  |
|       | 1513 -5.11 |  |       | 1556 -4.06 |  |
|       | 2117 5.79  |  |       | 2213 4.84  |  |
| 11    | 0327 -5.03 |  | 11    | 0418 -3.85 |  |
| Th    | 0933 5.76  |  | Su    | 1036 4.17  |  |
|       | 1543 -4.71 |  |       | 1634 -3.31 |  |
|       | 2151 5.27  |  |       | 2203 3.83  |  |
| 12    | 0357 -4.54 |  | 12    | 0506 -3.09 |  |
| F     | 1009 5.13  |  | M     | 1136 3.32  |  |
|       | 1613 -4.15 |  |       | 1731 -2.64 |  |
|       | 2228 4.59  |  |       |            |  |
| 13    | 0430 -3.91 |  | 13    | 0615 3.18  |  |
| Sa    | 1050 4.34  |  | Tu    | 0827 -2.49 |  |
|       | 1645 -3.48 |  |       | 1303 2.81  |  |
|       | 2313 3.82  |  |       | 1913 -2.12 |  |
| 14    | 0514 -3.19 |  | 14    | 0156 3.07  |  |
| Su    | 1143 3.50  |  | W     | 0816 -2.60 |  |
|       | 1739 -2.72 |  |       | 1445 3.07  |  |
|       |            |  |       | 2103 -2.67 |  |
| 15    | 0619 3.12  |  | 15    | 0306 3.73  |  |
| M     | 0827 -2.60 |  | Th    | 0945 -3.31 |  |
|       | 1303 2.86  |  |       | 1605 3.91  |  |
|       | 1912 -2.13 |  |       | 2221 -3.48 |  |
| 16    | 0158 2.88  |  | 16    | 0432 4.61  |  |
| Tu    | 0820 -2.30 |  |       | 1048 -4.11 |  |
|       | 1451 2.81  |  |       | 1703 4.73  |  |
|       | 2112 -2.39 |  |       | 2316 -4.22 |  |
| 17    | 0339 3.48  |  | 17    | 0524 5.27  |  |
| W     | 1001 -3.08 |  | Sa    | 1136 -4.64 |  |
|       | 1622 3.72  |  |       | 1748 5.25  |  |
|       | 2241 -3.31 |  |       |            |  |
| 18    | 0453 4.46  |  | 18    | 0600 -4.68 |  |
| Th    | 1112 -4.02 |  | Su    | 0806 5.61  |  |
|       | 1725 4.68  |  |       | 1219 -4.89 |  |
|       | 2340 -4.21 |  |       | 1826 5.50  |  |
| 19    | 0548 5.31  |  | 19    | 0638 -4.84 |  |
| F     | 1204 -4.74 |  | M     | 0842 5.72  |  |
|       | 1814 5.38  |  |       | 1255 -4.98 |  |
|       |            |  |       | 1639 5.60  |  |
| 20    | 0627 -4.82 |  | 20    | 0110 -4.89 |  |
| Sa    | 0833 5.84  |  | Tu    | 0715 5.72  |  |
|       | 1248 -5.15 |  |       | 1327 -4.96 |  |
|       | 1854 5.78  |  |       | 1930 5.62  |  |
| 21    | 0107 -5.13 |  | 21    | 0140 -4.67 |  |
| Su    | 0711 6.07  |  | W     | 0748 5.65  |  |
|       | 1327 -5.34 |  |       | 1355 -4.69 |  |
|       | 1930 5.90  |  |       | 1958 5.06  |  |
| 22    | 0142 -5.21 |  | 22    | 0207 -4.78 |  |
| M     | 0746 6.11  |  | Th    | 0816 5.43  |  |
|       | 1400 -5.28 |  |       | 1421 -4.71 |  |
|       | 2002 5.89  |  |       | 2028 5.32  |  |
| 23    | 0213 -5.15 |  | 23    | 0232 -4.51 |  |
| Tu    | 0816 5.99  |  | F     | 0844 5.02  |  |
|       | 1429 -5.14 |  |       | 1445 -4.38 |  |
|       | 2031 5.73  |  |       | 2052 4.61  |  |
| 24    | 0239 -4.95 |  | 24    | 0256 -4.11 |  |
| W     | 0848 5.70  |  | Sa    | 0911 4.46  |  |
|       | 1454 -4.87 |  |       | 1508 -5.82 |  |
|       | 2056 5.40  |  |       | 2118 4.36  |  |
| 25    | 0303 -4.83 |  | 25    | 0320 -3.63 |  |
| Th    | 0915 5.21  |  | Su    | 0936 3.82  |  |
|       | 1516 -4.47 |  |       | 1533 -3.40 |  |
|       | 2123 4.91  |  |       | 2145 3.77  |  |
| 26    | 0324 -4.19 |  | 26    | 0347 -3.08 |  |
| F     | 0940 4.67  |  | M     | 1009 3.18  |  |
|       | 1536 -3.97 |  |       | 1603 -2.83 |  |
|       | 2147 4.30  |  |       | 2222 3.18  |  |
| 27    | 0345 -3.63 |  | 27    | 0424 -2.82 |  |
| Sa    | 1005 3.84  |  | Tu    | 1056 2.59  |  |
|       | 1601 -3.38 |  |       | 1648 -2.23 |  |
|       | 2213 3.83  |  |       | 2319 2.63  |  |
| 28    | 0412 -3.03 |  | 28    | 0525 -2.00 |  |
| Su    | 1036 3.08  |  | W     | 1211 2.21  |  |
|       | 1631 -2.72 |  |       | 1804 -1.76 |  |
|       | 2248 2.92  |  |       |            |  |
| 29    | 0480 -2.32 |  | 29    | 0650 2.44  |  |
| M     | 1123 2.38  |  | Th    | 0710 -1.90 |  |
|       | 1718 -1.96 |  |       | 1349 2.41  |  |
|       | 2331 2.27  |  |       | 1958 -2.00 |  |
| 30    | 0567 -1.65 |  | 30    | 0723 2.81  |  |
| Tu    | 1252 1.69  |  | F     | 0845 -2.51 |  |
|       | 1854 -1.47 |  |       | 1509 3.16  |  |
|       |            |  |       | 2118 -2.77 |  |
| 31    | 0140 2.10  |  |       |            |  |
| W     | 0812 -1.87 |  |       |            |  |
|       | 1445 2.22  |  |       |            |  |
|       | 2058 -1.92 |  |       |            |  |

**HINKLEY POINT**

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| May |      |       | June |      |       |
|-----|------|-------|------|------|-------|
|     | Time | m     |      | Time | m     |
| 1   | 0334 | 3.75  | 1    | 0442 | 5.04  |
| Sa  | 0853 | -3.30 |      | 1103 | -4.25 |
|     | 1811 | 4.07  |      | 1715 | -4.88 |
|     | 2221 | -3.68 |      | 2331 | -4.49 |
| 2   | 0431 | 4.80  | 2    | 0537 | 5.48  |
| Su  | 1052 | -4.02 |      | 1159 | -4.83 |
|     | 1703 | 4.89  |      | 1806 | 5.68  |
|     | 2316 | -4.28 |      |      |       |
| 3   | 0522 | 5.30  | 3    | 0624 | -4.85 |
| M   | 1144 | -4.58 |      | 0828 | 5.78  |
|     | 1751 | 5.51  |      | 1249 | -4.88 |
|     |      |       |      | 1854 | 5.93  |
| 4   | 0606 | -4.81 | 4    | 0113 | -5.06 |
| Tu  | 0809 | 5.80  |      | 0716 | 5.87  |
| O   | 1231 | -4.97 |      | 1336 | -4.82 |
| U   | 1834 | 5.93  |      | 1941 | 6.01  |
| 5   | 0651 | -5.18 | 5    | 0200 | -5.08 |
| W   | 0653 | 5.11  |      | 0808 | 5.78  |
|     | 1314 | -5.19 |      | 1421 | -4.79 |
|     | 1916 | 6.18  |      | 2027 | 6.87  |
| 6   | 0133 | -5.33 | 6    | 0245 | -4.89 |
| Th  | 0738 | 6.20  |      | 0854 | 5.48  |
|     | 1354 | -5.20 |      | 1504 | -4.47 |
|     | 1957 | 6.17  |      | 2115 | 5.51  |
| 7   | 0214 | -5.28 | 7    | 0330 | -4.82 |
| F   | 0818 | 6.03  |      | 0942 | 5.00  |
|     | 1433 | -4.98 |      | 1548 | -4.02 |
|     | 2039 | 5.91  |      | 2204 | 5.02  |
| 8   | 0253 | -4.97 | 8    | 0417 | -4.08 |
| Sa  | 0901 | 5.58  |      | 1032 | 4.44  |
|     | 1510 | -4.93 |      | 1633 | -3.54 |
|     | 2121 | 5.40  |      | 2257 | 4.50  |
| 9   | 0332 | -4.48 | 9    | 0508 | -3.82 |
| Su  | 0945 | 4.91  |      | 1128 | 3.94  |
|     | 1548 | -3.92 |      | 1728 | -3.13 |
|     | 2207 | 4.72  |      | 2356 | 4.08  |
| 10  | 0415 | -3.82 | 10   | 0606 | -3.29 |
| M   | 1038 | 4.15  |      | 1227 | 3.59  |
|     | 1633 | -3.25 |      | 1829 | -2.88 |
|     | 2302 | 4.03  |      |      |       |
| 11  | 0510 | -3.20 | 11   | 0101 | 3.85  |
| Tu  | 1138 | 3.48  |      | 0709 | 3.15  |
| C   | 1734 | -2.67 |      | 1333 | 3.48  |
|     |      |       |      | 1838 | -2.85 |
| 12  | 0613 | 3.54  | 12   | 0208 | 3.84  |
| W   | 0827 | -2.83 |      | 0813 | -3.19 |
|     | 1254 | 3.16  |      | 1439 | 3.58  |
|     | 1903 | -2.47 |      | 2046 | -3.01 |
| 13  | 0138 | 3.51  | 13   | 0310 | 3.88  |
| Th  | 0751 | -2.94 |      | 0915 | -3.34 |
|     | 1418 | 3.38  |      | 1539 | 3.83  |
|     | 2030 | -2.79 |      | 2147 | -3.28 |
| 14  | 0254 | 3.93  | 14   | 0408 | 4.18  |
| F   | 0907 | -3.37 |      | 1011 | -3.55 |
|     | 1529 | 3.89  |      | 1630 | 4.12  |
|     | 2142 | -3.37 |      | 2239 | -3.51 |
| 15  | 0357 | 4.48  | 15   | 0454 | 4.34  |
| Sa  | 1009 | -3.85 |      | 1100 | -3.75 |
|     | 1628 | 4.43  |      | 1715 | 4.38  |
|     | 2238 | -3.87 |      | 2323 | -3.74 |
| 16  | 0448 | 4.88  |      |      |       |
| Su  | 1100 | -4.19 |      |      |       |
|     | 1712 | 4.79  |      |      |       |
|     | 2323 | -4.17 |      |      |       |
| 17  | 0532 | 5.07  |      |      |       |
| M   | 1142 | -4.38 |      |      |       |
|     | 1751 | 4.90  |      |      |       |
| 18  | 0601 | -4.32 |      |      |       |
| Tu  | 0809 | 5.14  |      |      |       |
|     | 1218 | -4.45 |      |      |       |
|     | 1825 | 5.12  |      |      |       |
| 19  | 0638 | -4.40 |      |      |       |
| W   | 0844 | 5.17  |      |      |       |
| •   | 1251 | -4.51 |      |      |       |
|     | 1857 | 5.21  |      |      |       |
| 20  | 0108 | -4.45 |      |      |       |
| Th  | 0717 | 5.15  |      |      |       |
|     | 1323 | -4.52 |      |      |       |
|     | 1929 | 5.22  |      |      |       |
| 21  | 0138 | -4.41 |      |      |       |
| F   | 0749 | 5.02  |      |      |       |
|     | 1353 | -4.42 |      |      |       |
|     | 2000 | 5.09  |      |      |       |
| 22  | 0208 | -4.25 |      |      |       |
| Sa  | 0821 | 4.75  |      |      |       |
|     | 1421 | -4.18 |      |      |       |
|     | 2030 | 4.81  |      |      |       |
| 23  | 0238 | -3.86 |      |      |       |
| Su  | 0851 | 4.37  |      |      |       |
|     | 1449 | -3.84 |      |      |       |
|     | 2100 | 4.42  |      |      |       |
| 24  | 0305 | -3.81 |      |      |       |
| M   | 0923 | 3.82  |      |      |       |
|     | 1518 | -3.46 |      |      |       |
|     | 2132 | 3.89  |      |      |       |
| 25  | 0338 | -3.23 |      |      |       |
| Tu  | 0958 | 3.48  |      |      |       |
|     | 1551 | -3.05 |      |      |       |
|     | 2212 | 3.57  |      |      |       |
| 26  | 0415 | -2.88 |      |      |       |
| W   | 1044 | 3.10  |      |      |       |
|     | 1638 | -2.86 |      |      |       |
|     | 2304 | 3.23  |      |      |       |
| 27  | 0809 | -2.58 |      |      |       |
| Th  | 1144 | 2.85  |      |      |       |
| •   | 1737 | -2.38 |      |      |       |
| 28  | 0012 | 3.09  |      |      |       |
| F   | 0821 | -2.47 |      |      |       |
|     | 1258 | 2.90  |      |      |       |
|     | 1859 | -2.41 |      |      |       |
| 29  | 0130 | 3.30  |      |      |       |
| Sa  | 0744 | -2.74 |      |      |       |
|     | 1413 | 3.32  |      |      |       |
|     | 2020 | -2.83 |      |      |       |
| 30  | 0241 | 3.83  |      |      |       |
| Su  | 0856 | -3.25 |      |      |       |
|     | 1521 | 3.98  |      |      |       |
|     | 2130 | -3.43 |      |      |       |
| 31  | 0345 | 4.48  |      |      |       |
| M   | 1002 | -3.79 |      |      |       |
|     | 1621 | 4.84  |      |      |       |
|     | 2233 | -4.01 |      |      |       |

## HINKLEY POINT

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| July     |                                                    |    | August   |                                                    |  |
|----------|----------------------------------------------------|----|----------|----------------------------------------------------|--|
| Time     | m                                                  |    | Time     | m                                                  |  |
| 1<br>Th  | 0513 4.97<br>1134 -4.20<br>1745 5.29               |    | 16<br>F  | 0557 4.21<br>1158 -3.78<br>1813 4.53               |  |
| 2<br>F   | 0004 -4.51<br>0612 5.33<br>1233 -4.54<br>1839 5.89 |    | 17<br>Sa | 0023 -3.81<br>0639 4.43<br>1240 -3.99<br>1832 4.78 |  |
| 3<br>Sa  | 0101 -4.65<br>0707 5.69<br>1326 -4.75<br>1931 5.93 |    | 18<br>Su | 0103 -3.99<br>0718 4.62<br>1318 -4.12<br>1928 4.91 |  |
| 4<br>Su  | 0153 -5.03<br>0759 5.70<br>1415 -4.61<br>2021 5.86 |    | 19<br>M  | 0141 -4.10<br>0751 4.75<br>1356 -4.20<br>2003 5.02 |  |
| 5<br>M   | 0242 -5.03<br>0847 5.61<br>1500 -4.89<br>2106 5.82 |    | 20<br>Tu | 0218 -4.18<br>0826 4.83<br>1431 -4.25<br>2037 5.08 |  |
| 6<br>Tu  | 0327 -4.84<br>0933 5.33<br>1542 -4.41<br>2154 5.48 |    | 21<br>W  | 0253 -4.20<br>0900 4.84<br>1508 -4.21<br>2113 5.04 |  |
| 7<br>W   | 0409 -4.49<br>1018 4.90<br>1621 -4.01<br>2239 5.00 |    | 22<br>Th | 0327 -4.13<br>0936 4.71<br>1540 -4.08<br>2149 4.88 |  |
| 8<br>Th  | 0448 -4.08<br>1100 4.39<br>1700 -3.59<br>2325 4.47 |    | 23<br>F  | 0400 -3.95<br>1012 4.44<br>1613 -3.80<br>2227 4.67 |  |
| 9<br>F   | 0528 -3.82<br>1145 3.88<br>1742 -3.17              |    | 24<br>Sa | 0434 -3.89<br>1051 4.08<br>1646 -3.49<br>2309 4.21 |  |
| 10<br>Sa | 0514 3.98<br>0813 -3.21<br>1236 3.45<br>1833 -2.61 |    | 25<br>Su | 0512 -3.39<br>1136 3.71<br>1733 -3.15              |  |
| 11<br>Su | 0109 3.55<br>0709 -2.80<br>1336 3.17<br>1937 -2.58 |    | 26<br>M  | 0501 3.85<br>0802 -3.08<br>1236 3.43<br>1835 -2.85 |  |
| 12<br>M  | 0212 3.33<br>0812 -2.78<br>1442 3.15<br>2047 -2.59 |    | 27<br>Tu | 0108 3.60<br>0713 -2.83<br>1332 3.39<br>2001 -2.78 |  |
| 13<br>Tu | 0318 3.34<br>0918 -2.68<br>1547 3.39<br>2154 -2.64 |    | 28<br>W  | 0228 3.60<br>0841 -2.89<br>1512 3.71<br>2137 -3.11 |  |
| 14<br>W  | 0418 3.58<br>1019 -3.14<br>1643 3.78<br>2251 -3.20 |    | 29<br>Th | 0348 3.83<br>1009 -3.28<br>1629 4.33<br>2248 -3.89 |  |
| 15<br>Th | 0511 3.89<br>1112 -3.48<br>1731 4.20<br>2339 -3.55 |    | 30<br>F  | 0503 4.50<br>1124 -3.88<br>1735 5.05<br>2357 -4.34 |  |
|          |                                                    |    | 31<br>Sa | 0606 5.11<br>1228 -4.43<br>1832 5.86               |  |
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**HINKLEY POINT**

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| September |      |       |          | October |       |          |      |       |          |      |       |
|-----------|------|-------|----------|---------|-------|----------|------|-------|----------|------|-------|
|           | Time | m     |          | Time    | m     |          | Time | m     |          |      |       |
| 1<br>W    | 0210 | -5.44 | 16<br>Th | 0142    | -4.86 | 1<br>F   | 0212 | -5.08 | 16<br>Sa | 0153 | -4.86 |
|           | 0612 | 6.12  |          | 0745    | 5.79  |          | 0613 | 5.90  |          | 0754 | 6.06  |
|           | 1425 | -5.22 |          | 1357    | -4.95 |          | 1424 | -4.83 |          | 1409 | -4.97 |
|           | 2029 | 6.35  |          | 1958    | 6.01  |          | 2030 | 5.89  |          | 2011 | 6.08  |
| 2<br>Th   | 0245 | -5.27 | 17<br>F  | 0218    | -4.91 | 2<br>Sa  | 0239 | -4.75 | 17<br>Su | 0227 | -4.78 |
|           | 0648 | 5.91  |          | 0819    | 5.83  |          | 0642 | 5.54  |          | 0631 | 5.64  |
|           | 1457 | -4.85 |          | 1431    | -4.92 |          | 1448 | -4.44 |          | 1443 | -4.69 |
|           | 2103 | 6.00  |          | 2033    | 5.96  |          | 2059 | 5.36  |          | 2048 | 5.71  |
| 3<br>F    | 0314 | -4.89 | 18<br>Sa | 0250    | -4.78 | 3<br>Su  | 0302 | -4.30 | 18<br>M  | 0300 | -4.38 |
|           | 0618 | 5.45  |          | 0853    | 5.64  |          | 0609 | 5.00  |          | 0608 | 5.37  |
|           | 1523 | -4.51 |          | 1503    | -4.87 |          | 1510 | -3.85 |          | 1517 | -4.21 |
|           | 2134 | 5.43  |          | 2107    | 5.65  |          | 2128 | 4.85  |          | 2127 | 5.07  |
| 4<br>Sa   | 0330 | -4.36 | 19<br>Su | 0319    | -4.42 | 4<br>M   | 0324 | -3.76 | 19<br>Tu | 0332 | -3.61 |
|           | 0645 | 4.89  |          | 0628    | 5.20  |          | 0633 | 4.35  |          | 0647 | 4.71  |
|           | 1545 | -3.98 |          | 1533    | -4.22 |          | 1531 | -3.38 |          | 1553 | -3.57 |
|           | 2203 | 4.70  |          | 2142    | 5.08  |          | 2151 | 3.87  |          | 2210 | 4.27  |
| 5<br>Su   | 0401 | -3.81 | 20<br>M  | 0348    | -3.91 | 5<br>Tu  | 0348 | -3.16 | 20<br>W  | 0408 | -3.12 |
|           | 1012 | 4.22  |          | 1000    | 4.57  |          | 0656 | 3.64  |          | 1036 | 3.85  |
|           | 1808 | -3.41 |          | 1603    | -3.64 |          | 1557 | -2.74 |          | 1639 | -2.85 |
|           | 2231 | 3.91  |          | 2220    | 4.36  |          | 2221 | 3.07  |          | 2306 | 3.45  |
| 6<br>M    | 0428 | -3.21 | 21<br>Tu | 0419    | -3.30 | 6<br>W   | 0415 | -2.48 | 21<br>Th | 0501 | -2.38 |
|           | 1040 | 3.52  |          | 1042    | 3.86  |          | 1033 | 2.91  |          | 1143 | 3.29  |
|           | 1636 | -2.77 |          | 1642    | -2.87 |          | 1633 | -2.01 |          | 1754 | -2.25 |
|           | 2305 | 3.10  |          | 2309    | 3.54  |          | 2308 | 2.29  |          |      |       |
| 7<br>Tu   | 0459 | -2.33 | 22<br>W  | 0504    | -2.59 | 7<br>Th  | 0500 | -1.72 | 22<br>F  | 0028 | 2.90  |
|           | 1120 | 2.81  |          | 1143    | 3.16  |          | 1134 | 2.22  |          | 0836 | -1.90 |
|           | 1718 | -2.04 |          | 1748    | -2.27 |          | 1739 | -1.30 |          | 1321 | 3.14  |
|           | 2358 | 2.35  |          |         |       |          |      |       |          | 1645 | -2.31 |
| 8<br>W    | 0551 | -1.81 | 23<br>Th | 0024    | 2.86  | 8<br>F   | 0039 | 1.78  | 23<br>Sa | 0211 | 3.08  |
|           | 1230 | 2.21  |          | 0626    | -1.93 |          | 0633 | -1.15 |          | 0830 | -2.29 |
|           | 1839 | -1.40 |          | 1319    | 2.85  |          | 1330 | 2.04  |          | 1454 | 3.77  |
|           |      |       |          | 1943    | -2.07 |          | 2008 | -1.32 |          | 2115 | -3.03 |
| 9<br>Th   | 0134 | 1.95  | 24<br>F  | 0212    | 2.81  | 9<br>Sa  | 0237 | 2.13  | 24<br>Su | 0334 | 3.90  |
|           | 0742 | -1.45 |          | 0834    | -2.08 |          | 0848 | -1.61 |          | 0652 | -3.20 |
|           | 1424 | 2.21  |          | 1505    | 3.39  |          | 1510 | 2.75  |          | 1603 | 4.68  |
|           | 2049 | -1.62 |          | 2128    | -2.78 |          | 2130 | -2.17 |          | 2222 | -3.90 |
| 10<br>F   | 0321 | 2.37  | 25<br>Sa | 0349    | 3.62  | 10<br>Su | 0350 | 3.07  | 25<br>M  | 0435 | 4.78  |
|           | 0624 | -1.98 |          | 1009    | -3.03 |          | 0655 | -2.54 |          | 1050 | -4.04 |
|           | 1552 | 2.95  |          | 1823    | 4.48  |          | 1811 | 3.73  |          | 1657 | 5.45  |
|           | 2207 | -2.43 |          | 2243    | -3.81 |          | 2227 | -3.09 |          | 2314 | -4.63 |
| 11<br>Sa  | 0428 | 3.24  | 26<br>Su | 0457    | 4.68  | 11<br>M  | 0441 | 4.05  | 26<br>Tu | 0524 | 5.41  |
|           | 1030 | -2.82 |          | 1113    | -4.04 |          | 1047 | -3.43 |          | 1138 | -4.56 |
|           | 1648 | 3.86  |          | 1721    | 5.44  |          | 1657 | 4.62  |          | 1742 | 5.87  |
|           | 2301 | -3.26 |          | 2339    | -4.85 |          | 2314 | -3.65 |          | 2357 | -4.63 |
| 12<br>Su  | 0517 | 4.10  | 27<br>M  | 0548    | 5.50  | 12<br>Tu | 0524 | 4.86  | 27<br>W  | 0604 | 5.71  |
|           | 1119 | -3.58 |          | 1203    | -4.76 |          | 1133 | -4.11 |          | 1217 | -4.77 |
|           | 1733 | 4.82  |          | 1808    | 6.07  |          | 1739 | 5.31  |          | 1821 | 5.99  |
|           | 2346 | -3.90 |          |         |       |          | 2357 | -4.39 |          |      |       |
| 13<br>M   | 0557 | 4.77  | 28<br>Tu | 0026    | -5.14 | 13<br>W  | 0604 | 5.45  | 28<br>Th | 0036 | -4.90 |
|           | 1203 | -4.15 |          | 0631    | 5.95  |          | 1215 | -4.59 |          | 0639 | 5.80  |
|           | 1812 | 5.18  |          | 1245    | -6.11 |          | 1816 | 6.78  |          | 1252 | -4.78 |
|           |      |       |          | 1849    | 6.34  |          |      |       |          | 1656 | 5.96  |
| 14<br>Tu  | 0027 | -4.35 | 29<br>W  | 0106    | -5.31 | 14<br>Th | 0038 | -4.73 | 29<br>F  | 0109 | -4.65 |
|           | 0635 | 5.25  |          | 0709    | 6.11  |          | 0642 | 5.83  |          | 0711 | 5.79  |
|           | 1243 | -4.54 |          | 1323    | -5.18 |          | 1254 | -4.88 |          | 1323 | -4.71 |
|           | 1848 | 5.58  |          | 1928    | 6.37  |          | 1857 | 6.07  |          | 1929 | 5.84  |
| 15<br>W   | 0108 | -4.65 | 30<br>Th | 0142    | -6.27 | 15<br>F  | 0117 | -4.83 | 30<br>Sa | 0139 | -4.73 |
|           | 0710 | 5.58  |          | 0742    | 6.08  |          | 0718 | 6.04  |          | 0742 | 5.88  |
|           | 1321 | -4.80 |          | 1356    | -5.08 |          | 1333 | -5.02 |          | 1351 | -4.54 |
|           | 1924 | 6.88  |          | 1959    | 6.22  |          | 1833 | 6.19  |          | 2000 | 5.88  |
|           |      |       |          |         |       |          |      |       |          |      |       |
|           |      |       |          |         |       |          |      |       | 31<br>Su | 0208 | -4.51 |
|           |      |       |          |         |       |          |      |       |          | 0611 | 5.44  |
|           |      |       |          |         |       |          |      |       |          | 1418 | -4.25 |
|           |      |       |          |         |       |          |      |       |          | 2030 | 5.15  |

# HINKLEY POINT

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| November |            |      |            | December |            |      |            |
|----------|------------|------|------------|----------|------------|------|------------|
| Time     | m          | Time | m          | Time     | m          | Time | m          |
| 1        | 0231 -4.16 | 16   | 0248 -4.35 | 1        | 0238 -3.70 | 16   | 0220 -4.20 |
| M        | 0838 5.00  |      | 0857 5.64  |          | 0849 4.65  |      | 0942 5.46  |
|          | 1442 -3.84 | Tu   | 1810 -4.20 | W        | 1454 -3.42 | Th   | 1558 -4.24 |
|          | 2057 4.65  |      | 2121 5.11  |          | 2112 4.08  |      | 2209 4.82  |
| 2        | 0254 -3.89 | 17   | 0327 -3.82 | 2        | 0309 -3.32 | 17   | 0415 -3.78 |
| Tu       | 0905 4.44  |      | 0944 4.98  |          | 0921 4.12  |      | 1033 4.99  |
|          | 1508 -3.33 | W    | 1554 -3.70 | Th       | 1524 -3.04 | F    | 1848 -3.81 |
|          | 2125 3.68  |      | 2211 4.42  |          | 2145 3.60  |      | 2300 4.41  |
| 3        | 0319 -3.15 | 18   | 0412 -3.21 | 3        | 0339 -2.82 | 18   | 0503 -3.36 |
| W        | 0833 3.61  |      | 1037 4.32  |          | 0957 3.89  |      | 1126 4.53  |
|          | 1533 -2.78 | Th   | 1848 -3.13 | F        | 1601 -2.86 | Sa   | 1739 -3.42 |
|          | 2156 3.20  |      | 2308 3.78  |          | 2228 3.18  |      | 2357 3.96  |
| 4        | 0348 -2.67 | 19   | 0509 -2.68 | 4        | 0418 -2.52 | 19   | 0659 -3.01 |
| Th       | 1008 3.18  |      | 1144 3.83  |          | 1044 3.30  |      | 1229 4.17  |
|          | 1809 -2.19 | F    | 1758 -2.74 | Sa       | 1846 -2.32 | Su   | 1837 -3.14 |
|          | 2240 2.57  |      |            |          | 2319 2.85  |      |            |
| 5        | 0430 -1.98 | 20   | 0622 3.39  | 5        | 0511 -2.18 | 20   | 0659 3.68  |
|          | 1103 2.61  |      | 0830 -2.38 |          | 1145 3.05  |      | 0703 -2.61 |
| F        | 1708 -1.64 | Sa   | 1304 3.71  | Su       | 1751 -2.11 | M    | 1334 3.98  |
|          | 2352 2.14  |      | 1921 -2.76 |          |            |      | 1940 -3.01 |
| 6        | 0541 -1.48 | 21   | 0144 3.45  | 6        | 0627 2.74  | 21   | 0206 3.59  |
| Sa       | 1231 2.38  |      | 0757 -2.59 |          | 0822 -2.03 |      | 0812 -2.79 |
|          | 1850 -1.48 | Su   | 1422 4.02  | M        | 1258 3.08  | Tu   | 1439 3.97  |
|          |            |      | 2038 -3.12 |          | 1909 -2.19 |      | 2045 -3.04 |
| 7        | 0130 2.25  | 22   | 0258 3.90  | 7        | 0142 2.97  | 22   | 0310 3.72  |
| Su       | 0739 -1.58 |      | 0912 -3.10 |          | 0747 -2.29 |      | 0919 -2.94 |
|          | 1408 2.78  | M    | 1328 4.53  | Tu       | 1412 3.48  | W    | 1540 4.09  |
|          | 2030 -2.02 |      | 2142 -3.59 |          | 2027 -2.60 |      | 2148 -3.21 |
| 8        | 0251 2.93  | 23   | 0359 4.43  | 8        | 0252 3.51  | 23   | 0408 3.98  |
| M        | 0900 -2.29 |      | 1012 -3.82 |          | 0900 -2.79 |      | 1018 -3.20 |
|          | 1518 3.56  | Tu   | 1624 4.95  | W        | 1517 4.05  | Th   | 1835 4.28  |
|          | 2135 -2.82 |      | 2237 -3.98 |          | 2134 -3.18 |      | 2242 -3.45 |
| 9        | 0352 3.82  | 24   | 0448 4.84  | 9        | 0354 4.20  | 24   | 0458 4.29  |
| Tu       | 1000 -3.12 |      | 1102 -3.97 |          | 1004 -3.41 |      | 1108 -3.47 |
|          | 1811 4.41  | W    | 1710 6.21  | Th       | 1817 4.87  | F    | 1723 4.47  |
|          | 2230 -3.67 |      | 2322 -4.20 |          | 2238 -3.72 |      | 2329 -3.70 |
| 10       | 0442 4.68  | 25   | 0531 5.09  | 10       | 0450 4.87  | 25   | 0542 4.58  |
| W        | 1052 -3.84 |      | 1143 -4.15 |          | 1103 -3.98 |      | 1152 -3.70 |
|          | 1700 5.13  | Th   | 1751 5.31  | F        | 1712 5.22  | Sa   | 1808 4.85  |
|          | 2319 -4.15 |      |            |          | 2333 -4.18 |      |            |
| 11       | 0527 5.31  | 26   | 0601 -4.30 | 11       | 0542 5.43  | 26   | 0609 -3.80 |
| Th       | 1140 -4.37 |      | 0909 5.23  |          | 1157 -4.44 |      | 0821 4.81  |
|          | 1745 5.85  | F    | 1220 -4.23 | Sa       | 1804 5.81  | Su   | 1231 -3.67 |
|          |            | O    | 1827 5.33  |          |            |      | 1845 4.77  |
| 12       | 0608 -4.58 | 27   | 0636 -4.35 | 12       | 0624 -4.53 | 27   | 0648 -4.04 |
| F        | 0811 5.77  |      | 0842 5.32  |          | 0830 5.81  |      | 0858 4.86  |
|          | 1225 -4.73 | Sa   | 1253 -4.28 | Su       | 1248 -4.74 | M    | 1308 -3.96 |
|          | 1828 5.98  |      | 1903 5.29  |          | 1854 5.84  |      | 1821 4.81  |
| 13       | 0646 -4.79 | 28   | 0108 -4.35 | 13       | 0113 -4.71 | 28   | 0123 -4.08 |
| Sa       | 0852 6.03  |      | 0715 5.33  |          | 0718 6.02  |      | 0733 4.99  |
|          | 1308 -4.81 | Su   | 1325 -4.20 | M        | 1337 -4.68 | Tu   | 1343 -3.98 |
|          | 1811 6.10  |      | 1938 5.18  |          | 1943 5.68  |      | 1856 4.78  |
| 14       | 0130 -4.85 | 29   | 0140 -4.25 | 14       | 0159 -4.71 | 29   | 0187 -4.04 |
| Su       | 0733 6.09  |      | 0748 5.20  |          | 0806 6.02  |      | 0806 4.94  |
|          | 1349 -4.81 | M    | 1355 -4.04 | Tu       | 1424 -4.83 | W    | 1418 -3.89 |
|          | 1953 6.01  |      | 2009 4.89  |          | 2031 5.73  |      | 2029 4.66  |
| 15       | 0209 -4.70 | 30   | 0209 -4.02 | 15       | 0245 -4.53 | 30   | 0230 -3.94 |
| M        | 0815 5.93  |      | 0818 4.93  |          | 0853 5.83  |      | 0839 4.82  |
|          | 1430 -4.69 | Tu   | 1425 -3.77 | W        | 1511 -4.80 | Th   | 1449 -3.77 |
|          | 2038 5.67  |      | 2040 4.51  |          | 2119 5.59  |      | 2101 4.48  |
|          |            |      |            |          |            | 31   | 0301 -3.79 |
|          |            |      |            |          |            | F    | 0912 4.84  |
|          |            |      |            |          |            |      | 1521 -3.81 |
|          |            |      |            |          |            |      | 2136 4.27  |

# BRIDGWATER (High Waters)

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| January  |              |              |          |              |              | February |              |              |          |              |              |
|----------|--------------|--------------|----------|--------------|--------------|----------|--------------|--------------|----------|--------------|--------------|
|          | Time         | m            |          | Time         | m            |          | Time         | m            |          | Time         | m            |
| 1<br>Th  | 0116<br>1353 | 3.42<br>3.59 | 16<br>F  | 0023<br>1254 | 3.96<br>4.16 | 1<br>Su  | 0216<br>1504 | 2.89<br>3.00 | 16<br>M  | 0225<br>1505 | 3.47<br>3.65 |
| 2<br>F   | 0222<br>1459 | 3.35<br>3.62 | 17<br>Sa | 0138<br>1412 | 3.78<br>4.09 | 2<br>M   | 0337<br>1815 | 3.23<br>3.48 | 17<br>Tu | 0348<br>1827 | 3.93<br>4.19 |
| 3<br>Sa  | 0327<br>1558 | 3.57<br>3.88 | 18<br>Su | 0255<br>1527 | 3.96<br>4.33 | 3<br>Tu  | 0439<br>1709 | 3.90<br>4.12 | 18<br>W  | 0501<br>1735 | 4.74<br>4.97 |
| 4<br>Su  | 0422<br>1649 | 4.00<br>4.25 | 19<br>M  | 0404<br>1635 | 4.48<br>4.77 | 4<br>W   | 0528<br>1755 | 4.57<br>4.68 | 19<br>Th | 0559<br>1827 | 5.54<br>5.84 |
| 5<br>M   | 0508<br>1733 | 4.47<br>4.61 | 20<br>Tu | 0507<br>1738 | 5.08<br>5.27 | 5<br>Th  | 0610<br>1835 | 5.09<br>5.10 | 20<br>F  | 0648<br>1913 | 6.11<br>6.08 |
| 6<br>Tu  | 0549<br>1813 | 4.88<br>4.88 | 21<br>W  | 0604<br>1833 | 5.68<br>5.71 | 6<br>F   | 0649<br>1913 | 5.48<br>5.42 | 21<br>Sa | 0730<br>1952 | 6.41<br>6.27 |
| 7<br>W   | 0628<br>1850 | 5.17<br>5.06 | 22<br>Th | 0656<br>1923 | 6.09<br>6.02 | 7<br>Sa  | 0725<br>1949 | 5.76<br>5.70 | 22<br>Su | 0809<br>2029 | 6.51<br>6.28 |
| 8<br>Th  | 0703<br>1927 | 5.35<br>5.19 | 23<br>F  | 0743<br>2009 | 6.34<br>6.15 | 8<br>Su  | 0802<br>2028 | 6.01<br>5.92 | 23<br>M  | 0845<br>2103 | 6.40<br>6.08 |
| 9<br>F   | 0739<br>2003 | 5.47<br>5.29 | 24<br>Sa | 0829<br>2052 | 6.39<br>6.07 | 9<br>M   | 0839<br>2103 | 6.17<br>5.95 | 24<br>Tu | 0920<br>2135 | 6.08<br>5.66 |
| 10<br>Sa | 0818<br>2040 | 5.55<br>5.34 | 25<br>Su | 0911<br>2132 | 6.20<br>5.78 | 10<br>Tu | 0918<br>2140 | 6.11<br>5.73 | 25<br>W  | 0953<br>2202 | 5.49<br>5.08 |
| 11<br>Su | 0854<br>2119 | 5.66<br>5.28 | 26<br>M  | 0952<br>2210 | 5.80<br>5.29 | 11<br>W  | 0958<br>2217 | 5.79<br>5.28 | 26<br>Th | 1021<br>2229 | 4.79<br>4.42 |
| 12<br>M  | 0934<br>2159 | 5.44<br>5.08 | 27<br>Tu | 1030<br>2245 | 5.22<br>4.70 | 12<br>Th | 1038<br>2257 | 5.29<br>4.70 | 27<br>F  | 1050<br>2258 | 4.05<br>3.76 |
| 13<br>Tu | 1015<br>2241 | 5.18<br>4.71 | 28<br>W  | 1107<br>2320 | 4.57<br>4.09 | 13<br>F  | 1119<br>2342 | 4.69<br>4.11 | 28<br>Sa | 1124<br>2339 | 3.31<br>3.08 |
| 14<br>W  | 1101<br>2328 | 4.83<br>4.32 | 29<br>Th | 1145<br>2320 | 3.92         | 14<br>Sa | 1214<br>2342 | 4.07         | 29<br>Su | 1221<br>2342 | 2.63         |
| 15<br>Th | 1152<br>2342 | 4.47         | 30<br>F  | 0000<br>1236 | 3.53<br>3.34 | 15<br>Su | 0051<br>1335 | 3.59<br>3.61 |          |              |              |
|          |              |              | 31<br>Sa | 0058<br>1344 | 3.05<br>2.85 |          |              |              |          |              |              |

**BRIDGWATER (High Waters)**

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| March    |              |              |          | April        |              |          |              |              |
|----------|--------------|--------------|----------|--------------|--------------|----------|--------------|--------------|
|          | Time         | m            |          | Time         | m            |          | Time         | m            |
| 1<br>M   | 0056<br>1405 | 2.54<br>2.34 | 16<br>Tu | 0209<br>1457 | 3.22<br>3.31 | 1<br>Th  | 0333<br>1810 | 3.22<br>3.80 |
| 2<br>Tu  | 0250<br>1643 | 2.84<br>2.88 | 17<br>W  | 0342<br>1624 | 3.80<br>4.08 | 2<br>F   | 0430<br>1859 | 4.27<br>4.81 |
| 3<br>W   | 0410<br>1845 | 3.48<br>3.79 | 18<br>Th | 0453<br>1729 | 4.79<br>5.04 | 3<br>Sa  | 0515<br>1742 | 5.17<br>5.40 |
| 4<br>Th  | 0504<br>1732 | 4.39<br>4.84 | 19<br>F  | 0547<br>1813 | 5.84<br>5.72 | 4<br>Su  | 0557<br>1821 | 5.83<br>5.98 |
| 5<br>F   | 0547<br>1812 | 5.15<br>5.29 | 20<br>Sa | 0631<br>1852 | 6.13<br>6.07 | 5<br>M   | 0637<br>1900 | 6.29<br>6.34 |
| 6<br>Sa  | 0628<br>1850 | 5.69<br>5.78 | 21<br>Su | 0709<br>1928 | 6.34<br>6.22 | 6<br>Tu  | 0716<br>1938 | 6.58<br>6.55 |
| 7<br>Su  | 0704<br>1928 | 6.06<br>6.12 | 22<br>M  | 0743<br>1959 | 6.40<br>6.28 | 7<br>W   | 0754<br>2018 | 6.70<br>6.54 |
| 8<br>M   | 0741<br>2004 | 6.41<br>6.38 | 23<br>Tu | 0818<br>2029 | 6.32<br>6.14 | 8<br>Th  | 0833<br>2054 | 6.54<br>6.24 |
| 9<br>Tu  | 0819<br>2040 | 6.57<br>6.38 | 24<br>W  | 0847<br>2058 | 6.05<br>5.81 | 9<br>F   | 0913<br>2132 | 6.08<br>5.85 |
| 10<br>W  | 0856<br>2118 | 6.48<br>6.12 | 25<br>Th | 0918<br>2124 | 5.53<br>5.27 | 10<br>Sa | 0954<br>2215 | 5.32<br>4.87 |
| 11<br>Th | 0933<br>2153 | 6.07<br>5.57 | 26<br>F  | 0941<br>2149 | 4.83<br>4.60 | 11<br>Su | 1042<br>2308 | 4.44<br>4.05 |
| 12<br>F  | 1011<br>2231 | 5.42<br>4.86 | 27<br>Sa | 1007<br>2214 | 4.07<br>3.91 | 12<br>M  | 1145         | 3.81         |
| 13<br>Sa | 1053<br>2316 | 4.82<br>4.10 | 28<br>Su | 1035<br>2248 | 3.53<br>3.23 | 13<br>Tu | 0028<br>1313 | 3.42<br>3.17 |
| 14<br>Su | 1149         | 3.81         | 29<br>M  | 1120<br>2349 | 2.83<br>2.59 | 14<br>W  | 0201<br>1448 | 3.37<br>3.41 |
| 15<br>M  | 0028<br>1317 | 3.41<br>3.21 | 30<br>Tu | 1254         | 2.14         | 15<br>Th | 0328<br>1607 | 4.01<br>4.22 |
|          |              |              | 31<br>W  | 0152<br>1503 | 2.41<br>2.58 |          |              |              |
|          |              |              |          |              |              | 16<br>F  | 0435<br>1704 | 4.91<br>5.08 |
|          |              |              |          |              |              | 17<br>Sa | 0524<br>1748 | 5.58<br>5.59 |
|          |              |              |          |              |              | 18<br>Su | 0608<br>1825 | 5.90<br>5.81 |
|          |              |              |          |              |              | 19<br>M  | 0641<br>1858 | 5.98<br>5.92 |
|          |              |              |          |              |              | 20<br>Tu | 0713<br>1928 | 6.01<br>5.98 |
|          |              |              |          |              |              | 21<br>W  | 0745<br>1958 | 5.97<br>5.94 |
|          |              |              |          |              |              | 22<br>Th | 0815<br>2025 | 5.77<br>5.71 |
|          |              |              |          |              |              | 23<br>F  | 0843<br>2051 | 5.34<br>5.25 |
|          |              |              |          |              |              | 24<br>Sa | 0911<br>2119 | 4.74<br>4.65 |
|          |              |              |          |              |              | 25<br>Su | 0938<br>2147 | 4.07<br>4.03 |
|          |              |              |          |              |              | 26<br>M  | 1010<br>2224 | 3.43<br>3.44 |
|          |              |              |          |              |              | 27<br>Tu | 1054<br>2320 | 2.88<br>2.83 |
|          |              |              |          |              |              | 28<br>W  | 1212         | 2.48         |
|          |              |              |          |              |              | 29<br>Th | 0056<br>1404 | 2.73<br>2.70 |
|          |              |              |          |              |              | 30<br>F  | 0239<br>1522 | 3.28<br>3.55 |

**Add 1 Hour for BST from 01:00 on 28/03/2004 to 01:00 on 31/10/2004**

### BRIDGWATER (High Waters)

**GMT**

**Datum : Ordnance Datum (Newlyn)**

Year : 2004

| May      |              |              | June     |              |              |
|----------|--------------|--------------|----------|--------------|--------------|
|          | Time         | m            |          | Time         | m            |
| 1<br>Sa  | 0345<br>1616 | 4.22<br>4.51 | 16<br>Su | 0453<br>1716 | 5.16<br>5.11 |
| 2<br>Su  | 0437<br>1706 | 5.16<br>5.32 | 17<br>M  | 0535<br>1753 | 5.35<br>5.30 |
| 3<br>M   | 0523<br>1749 | 5.78<br>5.92 | 18<br>Tu | 0611<br>1826 | 5.42<br>5.43 |
| 4<br>Tu  | 0607<br>1831 | 6.24<br>6.31 | 19<br>W  | 0644<br>1857 | 6.46<br>5.54 |
| 5<br>W   | 0649<br>1913 | 6.50<br>6.50 | 20<br>Th | 0716<br>1928 | 5.45<br>5.56 |
| 6<br>Th  | 0731<br>1953 | 6.56<br>6.46 | 21<br>F  | 0746<br>1958 | 5.33<br>5.43 |
| 7<br>F   | 0815<br>2036 | 6.36<br>6.19 | 22<br>Sa | 0819<br>2028 | 5.06<br>5.13 |
| 8<br>Sa  | 0859<br>2121 | 6.59<br>5.84 | 23<br>Su | 0930<br>2100 | 4.86<br>4.72 |
| 9<br>Su  | 0947<br>2211 | 5.19<br>4.93 | 24<br>M  | 0923<br>2135 | 4.21<br>4.28 |
| 10<br>M  | 1042<br>2310 | 4.43<br>4.25 | 25<br>Tu | 1000<br>2216 | 3.78<br>3.68 |
| 11<br>Tu | 1148         | 3.60         | 26<br>W  | 1048<br>2310 | 3.38<br>3.52 |
| 12<br>W  | 0022<br>1301 | 3.61<br>3.51 | 27<br>Th | 1151         | 3.14         |
| 13<br>Th | 0142<br>1422 | 3.79<br>3.67 | 28<br>F  | 0022<br>1310 | 3.40<br>3.20 |
| 14<br>F  | 0256<br>1534 | 4.19<br>4.19 | 29<br>Sa | 0144<br>1428 | 3.65<br>3.66 |
| 15<br>Sa | 0402<br>1630 | 4.74<br>4.74 | 30<br>Su | 0257<br>1533 | 4.24<br>4.36 |
|          |              |              | 31<br>M  | 0356<br>1627 | 4.92<br>5.07 |
|          |              |              | 1<br>Tu  | 0450<br>1718 | 5.62<br>5.63 |
|          |              |              | 2<br>W   | 0539<br>1806 | 5.92<br>6.04 |
|          |              |              | 3<br>Th  | 0627<br>1852 | 6.16<br>6.28 |
|          |              |              | 4<br>F   | 0715<br>1939 | 6.22<br>6.29 |
|          |              |              | 5<br>Sa  | 0804<br>2028 | 6.09<br>6.12 |
|          |              |              | 6<br>Su  | 0854<br>2116 | 5.76<br>5.75 |
|          |              |              | 7<br>M   | 0944<br>2210 | 5.31<br>5.28 |
|          |              |              | 8<br>Tu  | 1039<br>2304 | 4.77<br>4.76 |
|          |              |              | 9<br>W   | 1135         | 4.26         |
|          |              |              | 10<br>Th | 0004<br>1234 | 4.36<br>3.94 |
|          |              |              | 11<br>F  | 0109<br>1340 | 4.13<br>3.80 |
|          |              |              | 12<br>Sa | 0216<br>1447 | 4.11<br>3.69 |
|          |              |              | 13<br>Su | 0319<br>1547 | 4.25<br>4.13 |
|          |              |              | 14<br>M  | 0413<br>1637 | 4.45<br>4.42 |
|          |              |              | 15<br>Tu | 0459<br>1719 | 4.63<br>4.69 |
|          |              |              | 16<br>W  | 0540<br>1757 | 4.76<br>4.93 |
|          |              |              | 17<br>Th | 0616<br>1832 | 4.80<br>5.11 |
|          |              |              | 18<br>F  | 0655<br>1907 | 4.97<br>5.20 |
|          |              |              | 19<br>Sa | 0731<br>1940 | 4.97<br>5.20 |
|          |              |              | 20<br>Su | 0804<br>2013 | 4.90<br>5.12 |
|          |              |              | 21<br>M  | 0839<br>2051 | 4.78<br>4.96 |
|          |              |              | 22<br>Tu | 0916<br>2128 | 4.61<br>4.77 |
|          |              |              | 23<br>W  | 0956<br>2211 | 4.36<br>4.62 |
|          |              |              | 24<br>Th | 1039<br>2258 | 4.12<br>4.27 |
|          |              |              | 25<br>F  | 1128<br>2352 | 3.67<br>4.06 |
|          |              |              | 26<br>Sa | 1226         | 3.72         |
|          |              |              | 27<br>Su | 0056<br>1337 | 4.02<br>3.76 |
|          |              |              | 28<br>M  | 0209<br>1449 | 4.17<br>4.06 |
|          |              |              | 29<br>Tu | 0316<br>1554 | 4.54<br>4.62 |
|          |              |              | 30<br>W  | 0420<br>1652 | 4.96<br>5.16 |

**BRIDGWATER (High Waters)**

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| July          |              |              | August       |              |              |
|---------------|--------------|--------------|--------------|--------------|--------------|
| Time          | m            |              | Time         | m            |              |
| 1<br>Th       | 0518<br>1746 | 5.39<br>6.04 | 1<br>Su      | 0701<br>1923 | 5.67<br>6.31 |
| 2<br>F<br>O   | 0614<br>1839 | 5.70<br>5.98 | 2<br>M       | 0749<br>2009 | 6.14<br>6.49 |
| 3<br>Sa       | 0707<br>1931 | 5.90<br>6.18 | 3<br>Tu      | 0834<br>2053 | 6.21<br>6.45 |
| 4<br>Su       | 0758<br>2020 | 5.98<br>6.22 | 4<br>W       | 0918<br>2135 | 6.05<br>6.16 |
| 5<br>M        | 0845<br>2109 | 5.91<br>6.08 | 5<br>Th      | 0954<br>2214 | 6.68<br>6.83 |
| 6<br>Tu       | 0933<br>2157 | 5.87<br>5.78 | 6<br>F       | 1031<br>2252 | 6.08<br>4.95 |
| 7<br>W        | 1023<br>2245 | 5.28<br>5.29 | 7<br>Sa<br>C | 1108<br>2330 | 4.42<br>4.22 |
| 8<br>Th       | 1108<br>2333 | 4.78<br>4.76 | 8<br>Su      | 1142         | 3.78         |
| 9<br>F<br>C   | 1153         | 4.24         | 9<br>M       | 0013<br>1229 | 3.64<br>3.23 |
| 10<br>Sa      | 0023<br>1245 | 4.25<br>3.79 | 10<br>Tu     | 0114<br>1344 | 3.00<br>2.89 |
| 11<br>Su      | 0119<br>1344 | 3.83<br>3.50 | 11<br>W      | 0237<br>1514 | 2.84<br>3.08 |
| 12<br>M       | 0222<br>1451 | 3.80<br>3.48 | 12<br>Th     | 0368<br>1624 | 3.23<br>3.70 |
| 13<br>Tu      | 0328<br>1554 | 3.83<br>3.72 | 13<br>F      | 0456<br>1717 | 3.89<br>4.42 |
| 14<br>W       | 0425<br>1648 | 3.89<br>4.14 | 14<br>Sa     | 0543<br>1759 | 4.60<br>4.97 |
| 15<br>Th      | 0518<br>1735 | 4.24<br>4.57 | 15<br>Su     | 0625<br>1838 | 4.94<br>5.32 |
| 16<br>F       | 0601<br>1816 | 4.86<br>4.90 | 16<br>M<br>O | 0701<br>1912 | 5.24<br>5.57 |
| 17<br>Sa<br>O | 0642<br>1853 | 4.79<br>5.11 | 17<br>Tu     | 0735<br>1946 | 5.48<br>5.80 |
| 18<br>Su      | 0719<br>1929 | 4.94<br>5.25 | 18<br>W      | 0809<br>2022 | 5.69<br>5.97 |
| 19<br>M       | 0753<br>2004 | 5.07<br>5.37 | 19<br>Th     | 0844<br>2057 | 5.78<br>5.97 |
| 20<br>Tu      | 0829<br>2040 | 5.19<br>5.45 | 20<br>F      | 0919<br>2133 | 5.84<br>5.71 |
| 21<br>W       | 0904<br>2118 | 5.22<br>5.42 | 21<br>Sa     | 0954<br>2210 | 5.24<br>5.25 |
| 22<br>Th      | 0941<br>2158 | 5.10<br>5.22 | 22<br>Su     | 1029<br>2248 | 4.70<br>4.87 |
| 23<br>F       | 1019<br>2235 | 4.80<br>4.89 | 23<br>M<br>J | 1109<br>2334 | 4.13<br>4.07 |
| 24<br>Sa      | 1100<br>2319 | 4.41<br>4.52 | 24<br>Tu     | 1204         | 3.80         |
| 25<br>Su      | 1145         | 4.03         | 25<br>W      | 0045<br>1336 | 3.52<br>3.30 |
| 26<br>M       | 0011<br>1246 | 4.16<br>3.73 | 26<br>Th     | 0225<br>1812 | 3.40<br>3.68 |
| 27<br>Tu      | 0122<br>1409 | 3.91<br>3.70 | 27<br>F      | 0362<br>1630 | 3.90<br>4.62 |
| 28<br>W       | 0245<br>1526 | 3.97<br>4.08 | 28<br>Sa     | 0507<br>1734 | 4.79<br>5.45 |
| 29<br>Th      | 0359<br>1635 | 4.35<br>4.71 | 29<br>Su     | 0603<br>1825 | 5.66<br>6.15 |
| 30<br>F       | 0507<br>1738 | 4.89<br>5.37 | 30<br>M<br>O | 0651<br>1910 | 6.08<br>6.54 |
| 31<br>Sa<br>O | 0609<br>1833 | 5.44<br>5.83 | 31<br>Tu     | 0733<br>1950 | 6.36<br>6.89 |



# BRIDGWATER (High Waters)

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| November |              |              |          | December     |              |          |              |              |              |
|----------|--------------|--------------|----------|--------------|--------------|----------|--------------|--------------|--------------|
|          | Time         | m            |          | Time         | m            |          | Time         | m            |              |
| 1<br>M   | 0840<br>2100 | 5.29<br>4.81 | 16<br>Tu | 0857<br>2122 | 5.80<br>5.43 | 1<br>W   | 0849<br>2113 | 4.78<br>4.29 |              |
| 2<br>Tu  | 0906<br>2127 | 4.86<br>4.08 | 17<br>W  | 0948<br>2216 | 5.21<br>4.76 | 2<br>Th  | 0922<br>2147 | 4.34<br>3.84 |              |
| 3<br>W   | 0935<br>2157 | 4.00<br>3.40 | 18<br>Th | 1044<br>2318 | 4.58<br>4.13 | 3<br>F   | 1000<br>2230 | 3.91<br>3.43 |              |
| 4<br>Th  | 1006<br>2237 | 3.38<br>2.78 | 19<br>F  | 1152<br>2357 | 4.12<br>3.67 | 4<br>Sa  | 1048<br>2323 | 3.54<br>3.10 |              |
| 5<br>F   | 1101<br>2350 | 2.82<br>2.32 | 20<br>Sa | 0029<br>1310 | 3.78<br>4.00 | 5<br>Su  | 1152<br>1330 | 3.30<br>2.86 |              |
| 6<br>Sa  | 1236<br>1422 | 2.53<br>2.08 | 21<br>Su | 0147<br>1427 | 3.78<br>4.28 | 6<br>M   | 0034<br>1308 | 2.98<br>3.34 |              |
| 7<br>Su  | 0148<br>1422 | 2.42<br>2.08 | 22<br>M  | 0302<br>1534 | 4.18<br>4.78 | 7<br>Tu  | 0155<br>1428 | 3.22<br>3.75 |              |
| 8<br>M   | 0305<br>1528 | 3.18<br>3.68 | 23<br>Tu | 0405<br>1629 | 4.71<br>5.24 | 8<br>W   | 0308<br>1529 | 3.81<br>4.41 |              |
| 9<br>Tu  | 0359<br>1618 | 4.12<br>4.78 | 24<br>W  | 0453<br>1715 | 5.13<br>5.49 | 9<br>Th  | 0402<br>1624 | 4.58<br>5.09 |              |
| 10<br>W  | 0443<br>1702 | 4.97<br>5.50 | 25<br>Th | 0535<br>1755 | 5.37<br>5.58 | 10<br>F  | 0453<br>1715 | 5.28<br>5.64 |              |
| 11<br>Th | 0527<br>1743 | 5.83<br>6.02 | 26<br>F  | 0611<br>1830 | 5.51<br>5.60 | 11<br>Sa | 0541<br>1803 | 5.81<br>5.02 |              |
| 12<br>F  | 0609<br>1826 | 6.09<br>6.33 | 27<br>Sa | 0644<br>1904 | 5.81<br>5.57 | 12<br>Su | 0629<br>1852 | 6.17<br>6.20 |              |
| 13<br>Sa | 0649<br>1908 | 6.34<br>6.45 | 28<br>Su | 0716<br>1938 | 5.82<br>5.44 | 13<br>M  | 0716<br>1941 | 6.33<br>6.21 |              |
| 14<br>Su | 0731<br>1951 | 6.40<br>6.35 | 29<br>M  | 0748<br>2010 | 5.49<br>5.18 | 14<br>Tu | 0804<br>2030 | 6.31<br>6.05 |              |
| 15<br>M  | 0812<br>2035 | 6.22<br>6.00 | 30<br>Tu | 0819<br>2041 | 5.19<br>4.75 | 15<br>W  | 0854<br>2121 | 6.10<br>5.72 |              |
|          |              |              |          |              |              |          |              |              |              |
|          |              |              |          |              |              |          | 31<br>F      | 0816<br>2139 | 4.94<br>4.58 |

# BURNHAM

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| January |            |      |            | February |            |      |            |
|---------|------------|------|------------|----------|------------|------|------------|
| Time    | m          | Time | m          | Time     | m          | Time | m          |
| 1       | 0111 3.00  | 16   | 0019 3.58  | 1        | 0211 2.44  | 16   | 0220 3.05  |
| Th      | 0742 -2.88 | F    | 0654 -3.43 | Su       | 0900 -2.15 | M    | 0907 -2.85 |
|         | 1348 3.17  |      | 1250 3.78  |          | 1500 2.58  |      | 1501 3.24  |
|         | 2026 -2.85 |      | 1930 -3.30 |          | 2148 -2.54 |      | 2154 -2.92 |
| 2       | 0217 2.82  | 17   | 0131 3.37  | 2        | 0334 2.80  | 17   | 0346 3.53  |
| F       | 0859 -2.80 | Sa   | 0803 -3.18 | M        | 1023 -2.73 | Tu   | 1039 -3.40 |
|         | 1455 3.21  |      | 1407 3.70  |          | 1614 3.08  |      | 1627 3.80  |
|         | 2134 -2.85 |      | 2048 -3.18 |          | 2248 -3.23 |      | 2316 -3.61 |
| 3       | 0324 3.15  | 18   | 0251 3.58  | 3        | 0439 3.50  | 18   | 0502 4.30  |
| Sa      | 1005 -2.88 |      | 0933 -3.24 | Tu       | 1115 -3.47 | W    | 1151 -4.17 |
|         | 1558 3.47  | Su   | 1524 3.94  |          | 1711 3.72  |      | 1737 4.60  |
|         | 2231 -3.32 |      | 2214 -3.38 |          | 2337 -3.90 |      |            |
| 4       | 0421 3.59  | 19   | 0402 4.07  | 4        | 0530 4.19  | 19   | 0622 -4.39 |
|         | 1057 -3.33 |      | 1052 -3.88 |          | 1201 -4.04 | Th   | 0803 6.19  |
| Su      | 1849 3.88  | M    | 1635 4.38  | W        | 1758 4.30  |      | 1250 -4.87 |
|         | 2318 -3.77 |      | 2327 -3.88 |          |            |      | 1631 6.29  |
| 5       | 0510 4.09  | 20   | 0508 4.71  | 5        | 0623 -4.35 | 20   | 0115 -6.00 |
| M       | 1143 -3.82 |      | 1159 -4.25 | Th       | 0814 4.73  | F    | 0652 6.78  |
|         | 1735 4.22  | Tu   | 1740 4.81  |          | 1248 -4.39 |      | 1341 -6.32 |
|         |            |      |            |          | 1839 4.74  |      | 1918 6.73  |
| 6       | 0602 4.17  | 21   | 0629 -4.40 | 6        | 0107 -4.82 | 21   | 0201 -6.34 |
| Tu      | 0552 4.51  |      | 0608 5.31  |          | 0853 5.11  |      | 0735 6.09  |
|         | 1224 -4.17 | W    | 1258 -4.75 | F        | 1332 -4.80 | Sa   | 1424 -6.81 |
|         | 1817 4.51  |      | 1837 5.37  | O        | 1918 5.07  |      | 1957 5.94  |
| 7       | 0643 -4.44 | 22   | 0124 -4.82 | 7        | 0151 -4.79 | 22   | 0242 -6.42 |
|         | 0830 4.81  |      | 0701 5.78  |          | 0730 5.42  |      | 0814 6.20  |
| W       | 1304 -4.38 | Th   | 1351 -5.11 | Sa       | 1414 -4.77 | Su   | 1502 -5.48 |
| O       | 1855 4.70  |      | 1828 5.69  |          | 1954 5.36  |      | 2033 5.95  |
| 8       | 0123 -4.55 | 23   | 0214 -5.07 | 8        | 0232 -4.94 | 23   | 0317 -5.30 |
|         | 0708 4.99  |      | 0748 6.02  |          | 0807 5.88  |      | 0849 6.08  |
| Th      | 1344 -4.44 | F    | 1438 -5.27 | Su       | 1455 -4.93 | M    | 1534 -5.27 |
|         | 1832 4.83  |      | 2014 5.82  |          | 2030 5.58  |      | 2197 5.75  |
| 9       | 0201 -4.57 | 24   | 0259 -5.12 | 9        | 0311 -5.05 | 24   | 0345 -6.03 |
|         | 0744 5.12  |      | 0833 6.07  |          | 0843 5.84  |      | 0923 5.73  |
| F       | 1422 -4.45 | Sa   | 1522 -5.23 | M        | 1534 -6.00 | Tu   | 1602 -6.93 |
|         | 2008 4.93  |      | 2055 5.74  |          | 2107 5.82  |      | 2137 5.32  |
| 10      | 0239 -4.54 | 25   | 0335 -4.98 | 10       | 0345 -6.02 | 25   | 0408 -6.88 |
|         | 0820 5.21  |      | 0814 5.88  |          | 0821 5.78  |      | 0855 5.14  |
| Sa      | 1501 -4.45 | Su   | 1500 -5.00 | Tu       | 1809 -4.89 | W    | 1824 -4.81 |
|         | 2044 4.98  |      | 2134 5.44  |          | 2142 5.39  |      | 2204 4.71  |
| 11      | 0317 -4.49 | 26   | 0414 -4.88 | 11       | 0421 -4.83 | 26   | 0430 -4.24 |
|         | 0858 5.21  |      | 0854 5.48  |          | 0956 5.45  |      | 1022 4.41  |
| Su      | 1538 -4.41 | M    | 1534 -4.82 | W        | 1640 -4.82 | Th   | 1648 -4.05 |
|         | 2122 4.82  |      | 2211 4.93  |          | 2218 4.92  |      | 2229 4.04  |
| 12      | 0354 -4.39 | 27   | 0444 -4.28 | 12       | 0453 -4.50 | 27   | 0453 -3.80 |
|         | 0938 5.09  |      | 1030 4.88  |          | 1035 4.93  |      | 1050 3.85  |
| M       | 1618 -4.28 | Tu   | 1704 -4.17 | Th       | 1713 -4.24 | F    | 1713 -3.88 |
|         | 2201 4.89  |      | 2245 4.32  |          | 2256 4.32  |      | 2257 3.35  |
| 13      | 0431 -4.22 | 28   | 0513 -3.81 | 13       | 0530 -4.10 | 28   | 0533 -3.27 |
|         | 1018 4.82  |      | 1108 4.18  |          | 1117 4.31  |      | 1122 2.88  |
| Tu      | 1658 -4.11 | W    | 1735 -3.71 | F        | 1753 -3.80 | Sa   | 1747 -2.98 |
|         | 2241 4.33  |      | 2318 3.69  | C        | 2340 3.71  |      | 2337 2.85  |
| 14      | 0510 -3.99 | 29   | 0541 -3.38 | 14       | 0815 -3.81 | 29   | 0808 -2.64 |
|         | 1100 4.46  |      | 1143 3.82  |          | 1210 3.87  |      | 1217 2.16  |
| W       | 1738 -3.87 | Th   | 1808 -3.23 | Sa       | 1845 -3.27 | Su   | 1838 -2.29 |
|         | 2324 3.92  |      | 2357 3.11  |          |            |      |            |
| 15      | 0558 -3.72 | 30   | 0619 -2.88 | 15       | 0047 3.17  |      |            |
|         | 1149 4.08  |      | 1232 2.92  |          | 0721 -3.08 |      |            |
| Th      | 1828 -3.58 | F    | 1853 -2.72 | Su       | 1330 3.20  |      |            |
|         |            |      |            |          | 2004 -2.78 |      |            |
|         |            | 31   | 0652 2.82  |          |            |      |            |
|         |            |      | 0714 -2.37 |          |            |      |            |
|         |            | Sa   | 1330 2.52  |          |            |      |            |
|         |            |      | 2007 -2.31 |          |            |      |            |

**BURNHAM****GMT****Datum : Ordnance Datum (Newlyn)****Year : 2004**

| March |            |  | April |            |  |
|-------|------------|--|-------|------------|--|
| Time  | m          |  | Time  | m          |  |
| 1     | 0051 2.09  |  | 16    | 0204 2.79  |  |
| M     | 0712 -1.99 |  | Tu    | 0857 -2.74 |  |
|       | 1400 1.88  |  |       | 1453 2.88  |  |
|       | 2042 -1.88 |  |       | 2145 -2.79 |  |
| 2     | 0248 2.19  |  | 17    | 0340 3.39  |  |
| Tu    | 0948 -2.22 |  | W     | 1031 -3.50 |  |
|       | 1541 2.44  |  |       | 1623 3.69  |  |
|       | 2221 -2.72 |  |       | 2308 -3.72 |  |
| 3     | 0409 3.04  |  | 18    | 0454 4.41  |  |
| W     | 1049 -3.20 |  | Th    | 1140 -4.41 |  |
|       | 1845 3.38  |  |       | 1727 4.67  |  |
|       | 2313 -3.69 |  |       |            |  |
| 4     | 0505 4.00  |  | 19    | 0009 -4.63 |  |
| Th    | 1140 -4.01 |  | F     | 0550 5.29  |  |
|       | 1734 4.26  |  |       | 1235 -5.11 |  |
|       |            |  |       | 1817 5.38  |  |
| 5     | 0002 -4.34 |  | 20    | 0059 -5.21 |  |
| F     | 0550 4.78  |  | Sa    | 0635 5.60  |  |
|       | 1228 -4.54 |  |       | 1321 -5.44 |  |
|       | 1818 4.93  |  |       | 1857 5.74  |  |
| 6     | 0049 -4.78 |  | 21    | 0141 -5.43 |  |
| Sa    | 0630 5.34  |  | Su    | 0714 5.02  |  |
| O     | 1315 -4.88 |  |       | 1400 -5.49 |  |
|       | 1855 5.42  |  |       | 1933 5.69  |  |
| 7     | 0134 -5.10 |  | 22    | 0218 -5.43 |  |
| Su    | 0709 5.78  |  | M     | 0748 6.08  |  |
|       | 1358 -5.18 |  |       | 1433 -5.41 |  |
|       | 1933 5.79  |  |       | 2004 5.93  |  |
| 8     | 0218 -5.38 |  | 23    | 0248 -5.32 |  |
| M     | 0748 6.09  |  | Tu    | 0820 6.00  |  |
|       | 1440 -5.37 |  |       | 1501 -5.27 |  |
|       | 2009 6.04  |  |       | 2033 5.82  |  |
| 9     | 0285 -5.52 |  | 24    | 0311 -5.15 |  |
| Tu    | 0823 6.28  |  | W     | 0851 5.72  |  |
|       | 1518 -5.44 |  |       | 1524 -5.05 |  |
|       | 2044 6.08  |  |       | 2102 5.47  |  |
| 10    | 0331 -5.48 |  | 25    | 0332 -4.89 |  |
| W     | 0900 6.16  |  | Th    | 0919 5.18  |  |
|       | 1560 -5.28 |  |       | 1548 -4.73 |  |
|       | 2119 5.79  |  |       | 2127 4.91  |  |
| 11    | 0402 -5.22 |  | 26    | 0352 -4.83 |  |
| Th    | 0935 5.74  |  | F     | 0943 4.48  |  |
|       | 1817 -4.68 |  |       | 1806 -4.30 |  |
|       | 2155 5.22  |  |       | 2151 4.22  |  |
| 12    | 0430 -4.80 |  | 27    | 0415 -4.09 |  |
| F     | 1012 5.08  |  | Sa    | 1008 3.87  |  |
|       | 1648 -4.42 |  |       | 1831 -3.79 |  |
|       | 2231 4.49  |  |       | 2215 3.51  |  |
| 13    | 0503 -4.29 |  | 28    | 0445 -3.56 |  |
| Sa    | 1053 4.34  |  | Su    | 1035 2.91  |  |
|       | 1723 -3.68 |  |       | 1702 -3.20 |  |
|       | 2314 3.70  |  |       | 2248 2.80  |  |
| 14    | 0547 -3.67 |  | 29    | 0523 -2.93 |  |
| Su    | 1148 3.40  |  | M     | 1118 2.18  |  |
|       | 1814 -3.19 |  |       | 1747 -2.54 |  |
|       |            |  |       | 2346 2.14  |  |
| 15    | 0022 2.88  |  | 30    | 0819 -2.27 |  |
| M     | 0655 -2.97 |  | Tu    | 1250 1.68  |  |
|       | 1312 2.79  |  |       | 1901 -1.93 |  |
|       | 1939 -2.54 |  |       |            |  |
|       |            |  | 31    | 0147 1.95  |  |
|       |            |  | W     | 0848 -2.00 |  |
|       |            |  |       | 1459 2.12  |  |
|       |            |  |       | 2143 -2.38 |  |
|       |            |  |       |            |  |
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**BURNHAM**

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Datum : Ordnance Datum (Newlyn)

Year : 2004

| May |      |       | June |      |       |
|-----|------|-------|------|------|-------|
|     | Time | m     |      | Time | m     |
| 1   | 0343 | 3.83  | 1    | 0450 | 5.17  |
| Ba  | 1027 | -3.63 |      | 1141 | -4.99 |
|     | 1817 | 4.12  | Tu   | 1720 | 5.29  |
|     | 2255 | -4.08 |      |      |       |
| 2   | 0437 | 4.74  | 2    | 0008 | -4.81 |
| Su  | 1124 | -4.45 |      | 0542 | 5.59  |
|     | 1707 | 4.97  | W    | 1236 | -4.83 |
|     | 2350 | -4.98 |      | 1809 | 5.70  |
| 3   | 0525 | 5.44  | 3    | 0100 | -5.18 |
| M   | 1218 | -4.91 |      | 0631 | 5.83  |
|     | 1752 | 5.58  | Th   | 1328 | -5.18 |
|     |      |       | O    | 1857 | 5.93  |
| 4   | 0640 | -5.13 |      | 0147 | -5.35 |
| Tu  | 0811 | 5.92  | 4    | 0720 | 3.89  |
| O   | 1308 | -6.28 |      | 1410 | -5.21 |
|     | 1835 | 5.98  | F    | 1944 | 6.06  |
| 5   | 0127 | -5.47 | 5    | 0232 | -5.38 |
| W   | 0854 | 6.18  |      | 0809 | 5.78  |
|     | 1330 | -5.46 | Ba   | 1452 | -5.08 |
|     | 1918 | 6.18  |      | 2030 | 5.79  |
| 6   | 0208 | -5.83 | 6    | 0315 | -5.18 |
| Th  | 0738 | 6.24  |      | 0858 | 5.44  |
|     | 1429 | -5.47 | Su   | 1534 | -4.78 |
|     | 1958 | 6.18  |      | 2119 | 5.41  |
| 7   | 0245 | -5.58 | 7    | 0400 | -4.84 |
| F   | 0819 | 6.04  |      | 0948 | 4.95  |
|     | 1305 | -5.26 | M    | 1617 | -4.38 |
|     | 2040 | 5.88  |      | 2211 | 4.90  |
| 8   | 0323 | -5.30 | 8    | 0448 | -4.44 |
| Ba  | 0903 | 5.55  |      | 1039 | 4.28  |
|     | 1538 | -4.88 | Tu   | 1708 | -3.88 |
|     | 2124 | 5.30  |      | 2303 | 4.39  |
| 9   | 0359 | -4.85 | 9    | 0541 | -4.07 |
| Su  | 0949 | 4.83  |      | 1133 | 3.89  |
|     | 1814 | -4.35 | W    | 1801 | -3.82 |
|     | 2212 | 4.98  | C    |      |       |
| 10  | 0441 | -4.29 | 10   | 0001 | 3.97  |
| M   | 1042 | 4.04  |      | 0642 | -3.79 |
|     | 1700 | -3.78 | Th   | 1231 | 3.84  |
|     | 2309 | 3.86  |      | 1808 | -3.39 |
| 11  | 0537 | -3.73 |      | 0104 | 3.74  |
| Tu  | 1144 | 3.39  |      | 0747 | -3.68 |
| C   | 1802 | -3.23 | 11   | 1335 | 3.40  |
|     |      |       |      | 2014 | -3.33 |
| 12  | 0018 | 3.40  | 12   | 0211 | 3.71  |
| W   | 0656 | -3.34 |      | 0851 | -3.67 |
|     | 1257 | 3.09  | Ba   | 1443 | 3.48  |
|     | 1932 | -2.98 |      | 2122 | -3.43 |
| 13  | 0137 | 3.35  | 13   | 0315 | 3.85  |
| Th  | 0828 | -3.44 |      | 0951 | -3.78 |
|     | 1417 | 3.28  | Su   | 1545 | 3.74  |
|     | 2101 | -3.29 |      | 2222 | -3.61 |
| 14  | 0254 | 3.79  | 14   | 0412 | 4.08  |
| F   | 0938 | -3.80 |      | 1046 | -3.60 |
|     | 1531 | 3.79  | M    | 1637 | 3.03  |
|     | 2211 | -3.84 |      | 2313 | -3.83 |
| 15  | 0400 | 4.37  | 15   | 0600 | 4.25  |
| Ba  | 1039 | -4.32 |      | 1133 | 4.25  |
|     | 1630 | 4.37  | Tu   | 1721 | 4.31  |
|     | 2309 | -4.29 |      | 2356 | -4.03 |
| 16  | 0453 | 4.80  |      |      |       |
| Su  | 1132 | -4.57 |      |      |       |
|     | 1717 | 4.74  |      |      |       |
|     | 2358 | -4.62 |      |      |       |
| 17  | 0537 | 5.00  |      |      |       |
| M   | 1215 | -4.64 |      |      |       |
|     | 1756 | 4.94  |      |      |       |
| 18  | 0635 | -4.59 |      |      |       |
| Tu  | 0815 | 5.87  |      |      |       |
|     | 1250 | -4.87 |      |      |       |
|     | 1830 | 5.08  |      |      |       |
| 19  | 0108 | -4.63 |      |      |       |
| W   | 0648 | 6.10  |      |      |       |
| ●   | 1323 | -4.73 |      |      |       |
|     | 1902 | 5.19  |      |      |       |
| 20  | 0136 | -4.71 |      |      |       |
| Th  | 0721 | 5.10  |      |      |       |
|     | 1353 | -4.81 |      |      |       |
|     | 1933 | 5.21  |      |      |       |
| 21  | 0208 | -4.78 |      |      |       |
| F   | 0763 | 4.97  |      |      |       |
|     | 1420 | -4.80 |      |      |       |
|     | 2003 | 5.07  |      |      |       |
| 22  | 0234 | -4.84 |      |      |       |
| Ba  | 0823 | 4.89  |      |      |       |
|     | 1448 | -4.63 |      |      |       |
|     | 2032 | 4.77  |      |      |       |
| 23  | 0301 | -4.49 |      |      |       |
| Su  | 0854 | 4.28  |      |      |       |
|     | 1514 | -4.35 |      |      |       |
|     | 2104 | 4.35  |      |      |       |
| 24  | 0330 | -4.20 |      |      |       |
| M   | 0928 | 3.81  |      |      |       |
|     | 1644 | -4.00 |      |      |       |
|     | 2137 | 3.96  |      |      |       |
| 25  | 0403 | -3.68 |      |      |       |
| Tu  | 1002 | 3.35  |      |      |       |
|     | 1620 | -3.64 |      |      |       |
|     | 2217 | 3.45  |      |      |       |
| 26  | 0445 | -3.52 |      |      |       |
| W   | 1048 | 2.85  |      |      |       |
|     | 1708 | -3.29 |      |      |       |
|     | 2309 | 3.11  |      |      |       |
| 27  | 0540 | -3.22 |      |      |       |
| Th  | 1148 | 2.71  |      |      |       |
| J   | 1809 | -3.01 |      |      |       |
| 28  | 0018 | 2.98  |      |      |       |
| F   | 0856 | -3.07 |      |      |       |
|     | 1505 | 2.77  |      |      |       |
|     | 1831 | -2.87 |      |      |       |
| 29  | 0139 | 3.24  |      |      |       |
| Ba  | 0819 | -3.25 |      |      |       |
|     | 1424 | 3.25  |      |      |       |
|     | 2057 | -3.32 |      |      |       |
| 30  | 0253 | 3.84  |      |      |       |
| Su  | 0834 | -3.72 |      |      |       |
|     | 1530 | 3.97  |      |      |       |
|     | 2208 | -3.87 |      |      |       |
| 31  | 0354 | 4.55  |      |      |       |
| M   | 1039 | -4.19 |      |      |       |
|     | 1827 | 4.70  |      |      |       |
|     | 2310 | -4.38 |      |      |       |

**BURNHAM**

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Datum : Ordnance Datum (Newlyn)

Year : 2004

| July |      |       | August |      |       |
|------|------|-------|--------|------|-------|
|      | Time | m     |        | Time | m     |
| 1    | 0520 | 5.03  | 1      | 0130 | -5.07 |
| Th   | 1211 | -4.50 | Su     | 0708 | 5.54  |
|      | 1749 | 5.30  |        | 1335 | -5.08 |
|      |      |       |        | 1929 | 5.59  |
| 2    | 0039 | -4.78 | 2      | 0221 | -5.43 |
| F    | 0818 | 5.36  | 2      | 0754 | 5.81  |
| O    | 1307 | -4.80 | M      | 1442 | -5.31 |
|      | 1843 | 5.65  |        | 2014 | 8.17  |
| 3    | 0135 | -5.07 | 3      | 0307 | -5.59 |
|      | 0712 | 5.57  | Tu     | 0839 | 5.88  |
| 3    | 1359 | -4.99 |        | 1325 | -5.31 |
|      | 1936 | 6.85  |        | 2057 | 6.13  |
| 4    | 0226 | -5.24 | 4      | 0348 | -5.43 |
|      | 0803 | 5.65  | 4      | 0919 | 5.72  |
| 4    | 1449 | -5.05 | W      | 1604 | -5.08 |
|      | 2024 | 5.89  |        | 2137 | 5.83  |
| 5    | 0315 | -5.25 | 5      | 0424 | -5.09 |
|      | 0852 | 5.58  |        | 0956 | 5.31  |
| 5    | 1535 | -4.95 | Th     | 1636 | -4.88 |
|      | 2113 | 5.75  |        | 2215 | 5.20  |
| 6    | 0402 | -5.11 | 6      | 0455 | -4.81 |
|      | 0937 | 5.32  |        | 1031 | 4.71  |
| 6    | 1519 | -4.72 | F      | 1704 | -4.49 |
|      | 2159 | 6.42  |        | 2252 | 4.58  |
| 7    | 0445 | -4.82 | 7      | 0524 | -4.07 |
|      | 1023 | 4.90  |        | 1105 | 4.03  |
| 7    | 1700 | -4.39 | 8      | 1732 | -3.96 |
|      | 2245 | 4.94  | 8      | 2328 | 3.82  |
| 8    | 0526 | -4.45 |        | 0854 | -3.53 |
|      | 1107 | 4.38  | 8      | 1140 | 3.38  |
| 8    | 1740 | -4.00 | Su     | 1804 | -3.14 |
|      | 2331 | 4.38  |        |      |       |
| 9    | 0609 | -4.04 | 9      | 0009 | 3.12  |
|      | 1152 | 3.84  |        | 0632 | -2.99 |
| 9    | 1824 | -3.59 | M      | 1225 | 2.80  |
|      |      |       |        | 1849 | -2.58 |
| 10   | 0019 | 3.85  | 10     | 0109 | 2.56  |
|      | 0653 | -3.62 |        | 0730 | -2.45 |
| 10   | 1241 | 3.38  | Tu     | 1339 | 2.45  |
|      | 1912 | -3.19 |        | 2012 | -2.13 |
| 11   | 0114 | 3.42  | 11     | 0233 | 2.40  |
|      | 0748 | -3.24 |        | 0917 | -2.36 |
| 11   | 1339 | 3.08  | W      | 1610 | 2.63  |
|      | 2013 | -2.87 |        | 2202 | -2.51 |
| 12   | 0217 | 3.18  | 12     | 0356 | 2.60  |
|      | 0854 | -3.04 |        | 1031 | -2.68 |
| 12   | 1447 | 3.04  | Th     | 1624 | 3.29  |
|      | 2129 | -2.84 |        | 2300 | -3.28 |
| 13   | 0329 | 3.21  | 13     | 0459 | 3.48  |
|      | 1001 | -3.17 |        | 1122 | -3.58 |
| 13   | 1552 | 3.31  | F      | 1719 | 4.03  |
|      | 2232 | -3.16 |        | 2348 | -3.89 |
| 14   | 0425 | 3.48  | 14     | 0548 | 4.12  |
|      | 1056 | -3.64 |        | 1206 | -4.18 |
| 14   | 1846 | 3.78  | 8a     | 1803 | 4.80  |
|      | 2323 | -3.80 |        |      |       |
| 15   | 0518 | 3.83  | 15     | 0034 | -4.28 |
|      | 1144 | -3.93 |        | 0629 | 4.57  |
| 15   | 1737 | 4.19  | Su     | 1253 | -4.48 |
|      |      |       |        | 1842 | 4.87  |
| 16   | 0008 | -3.98 | 16     | 0118 | -4.48 |
|      | 0605 | 4.18  |        | 0708 | 4.88  |
| 16   | 1228 | -4.23 | M      | 1335 | -4.82 |
|      | 1820 | 4.53  |        | 1917 | 5.23  |
| 17   | 0080 | -4.21 | 17     | 0159 | -4.83 |
|      | 0646 | 4.41  |        | 0740 | 5.13  |
| 17   | 1310 | -4.39 | Tu     | 1418 | -4.78 |
|      | 1858 | 4.74  |        | 1951 | 5.48  |
| 18   | 0132 | -4.33 | 18     | 0239 | -4.76 |
|      | 0724 | 4.57  |        | 0814 | 5.35  |
| 18   | 1350 | -4.46 | W      | 1454 | -4.87 |
|      | 1934 | 4.89  |        | 2028 | 5.63  |
| 19   | 0211 | -4.39 | 19     | 0317 | -4.88 |
|      | 0768 | 4.70  |        | 0848 | 5.44  |
| 19   | 1428 | -4.48 | Th     | 1531 | -4.88 |
|      | 2009 | 5.01  |        | 2101 | 5.83  |
| 20   | 0249 | -4.48 | 20     | 0350 | -4.81 |
|      | 0833 | 4.82  |        | 0922 | 5.29  |
| 20   | 1505 | -4.51 | F      | 1602 | -4.71 |
|      | 2044 | 5.10  |        | 2138 | 5.37  |
| 21   | 0327 | -4.50 | 21     | 0421 | -4.55 |
|      | 0908 | 4.88  |        | 0956 | 4.88  |
| 21   | 1540 | -4.49 | 8a     | 1631 | -4.38 |
|      | 2121 | 5.07  |        | 2211 | 4.89  |
| 22   | 0403 | -4.48 | 22     | 0448 | -4.19 |
|      | 0943 | 4.73  |        | 1029 | 4.32  |
| 22   | 1618 | -4.37 | Su     | 1702 | -4.01 |
|      | 2168 | 4.88  |        | 2248 | 4.29  |
| 23   | 0458 | -4.30 | 23     | 0522 | -3.79 |
|      | 1020 | 4.42  |        | 1108 | 3.74  |
| 23   | 1652 | -4.15 | M      | 1741 | -3.58 |
|      | 2235 | 4.52  |        | 2332 | 3.87  |
| 24   | 0514 | -4.08 | 24     | 0607 | -3.33 |
|      | 1058 | 4.02  |        | 1201 | 3.18  |
| 24   | 1730 | -3.89 | Tu     | 1837 | -3.08 |
|      | 2317 | 4.13  |        |      |       |
| 25   | 0555 | -3.79 | 25     | 0041 | 3.11  |
|      | 1143 | 3.83  |        | 0713 | -2.79 |
| 25   | 1816 | -3.59 | W      | 1333 | 2.87  |
|      |      |       |        | 2010 | -2.65 |
| 26   | 0607 | 3.77  | 26     | 0220 | 2.98  |
|      | 0648 | -3.48 |        | 0910 | -2.68 |
| 26   | 1242 | 3.32  | Th     | 1508 | 3.28  |
|      | 1915 | -3.27 |        | 2204 | -3.11 |
| 27   | 0117 | 3.51  | 27     | 0350 | 3.49  |
|      | 0754 | -3.18 |        | 1040 | -3.34 |
| 27   | 1404 | 3.28  | F      | 1630 | 4.14  |
|      | 2040 | -3.10 |        | 2320 | -3.85 |
| 28   | 0241 | 3.57  | 28     | 0508 | 4.37  |
|      | 0928 | -3.19 |        | 1153 | -4.18 |
| 28   | 1523 | 3.88  | 8a     | 1738 | 8.10  |
|      | 2213 | -3.43 |        |      |       |
| 29   | 0357 | 3.88  | 29     | 0026 | -4.78 |
|      | 1048 | -3.83 |        | 0607 | 5.20  |
| 29   | 1835 | 4.33  | Su     | 1252 | -4.91 |
|      | 2324 | -4.01 |        | 1829 | 5.82  |
| 30   | 0508 | 4.51  | 30     | 0119 | -5.35 |
|      | 1158 | -4.16 |        | 0656 | 5.78  |
| 30   | 1740 | 5.02  | M      | 1342 | -5.37 |
|      |      |       | O      | 1915 | 8.22  |
| 31   | 0030 | -4.58 | 31     | 0208 | -5.85 |
|      | 0613 | 5.08  |        | 0738 | 8.03  |
| 31   | 1300 | -4.87 | Tu     | 1425 | -5.55 |
|      | 1837 | 5.58  |        | 1955 | 6.35  |

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Datum : Ordnance Datum (Newlyn)

Year : 2004

| September |            |    | October    |    |            |    |            |
|-----------|------------|----|------------|----|------------|----|------------|
|           | Time<br>m  |    | Time<br>m  |    | Time<br>m  |    |            |
| 1         | 0246 -5.67 | 16 | 0218 -5.07 | 1  | 0248 -5.25 | 16 | 0230 -5.21 |
| W         | 0815 8.10  | Th | 0748 8.77  | F  | 0816 8.85  | Sa | 0787 8.04  |
|           | 1602 -5.45 |    | 1434 -5.18 |    | 1459 -5.05 |    | 1445 -4.24 |
|           | 2032 8.32  |    | 2002 8.02  |    | 2036 8.92  |    | 2013 8.09  |
| 2         | 0321 -6.48 | 17 | 0255 -5.13 | 2  | 0312 -4.98 | 17 | 0303 -6.04 |
| Th        | 0851 5.95  | F  | 0822 5.83  | Sa | 0847 5.80  | Su | 0835 5.81  |
|           | 1534 -5.19 |    | 1509 -5.14 |    | 1821 -4.72 |    | 1816 -4.90 |
|           | 2107 8.01  |    | 2038 8.97  |    | 2108 5.35  |    | 2052 8.70  |
| 3         | 0350 -5.18 | 18 | 0327 -4.99 | 3  | 0334 -4.57 | 18 | 0333 -4.88 |
| F         | 0922 5.53  | Sa | 0857 5.83  | Su | 0915 4.99  | M  | 0910 6.31  |
|           | 1600 -4.78 |    | 1540 -4.90 |    | 1542 -4.28 |    | 1547 -4.57 |
|           | 2140 5.42  |    | 2111 5.83  |    | 2133 4.58  |    | 2131 6.03  |
| 4         | 0415 -4.01 | 19 | 0358 -4.85 | 4  | 0354 -4.08 | 19 | 0402 -4.21 |
| Sa        | 0953 4.91  | Su | 0930 5.15  | M  | 0939 4.24  | Tu | 0951 4.59  |
|           | 1621 -4.25 |    | 1607 -4.51 |    | 1604 -3.78 |    | 1622 -4.08 |
|           | 2211 4.82  |    | 2146 5.02  |    | 2158 3.68  |    | 2215 4.19  |
| 5         | 0437 -4.08 | 20 | 0421 -4.21 | 5  | 0417 -3.53 | 20 | 0438 -3.86 |
| Su        | 1018 4.18  | M  | 1005 4.48  | Tu | 1003 3.46  | W  | 1040 3.79  |
|           | 1844 -3.72 |    | 1837 -4.04 |    | 1829 -3.22 |    | 1708 -3.45 |
|           | 2239 3.75  |    | 2224 4.28  |    | 2223 2.84  |    | 2312 3.35  |
| 6         | 0500 -3.51 | 21 | 0433 -3.73 | 6  | 0448 -2.82 | 21 | 0631 -3.03 |
| M         | 1045 3.41  | Tu | 1045 3.73  | W  | 1032 2.71  | Th | 1149 3.12  |
| C         | 1709 -3.17 |    | 1718 -3.50 | C  | 1708 -2.59 |    | 1818 -2.84 |
|           | 2309 2.82  |    | 2312 3.44  |    | 2301 2.08  |    |            |
| 7         | 0530 -2.91 | 22 | 0539 -3.13 | 7  | 0529 -2.25 | 22 | 0034 2.82  |
| Tu        | 1121 2.88  | W  | 1144 3.01  | Th | 1128 1.99  | F  | 0857 -2.49 |
|           | 1747 -2.53 |    | 1817 -2.85 |    | 1800 -1.90 |    | 1321 3.00  |
|           | 2358 2.14  |    |            |    |            |    | 2012 -2.78 |
| 8         | 0817 -2.23 | 23 | 0631 2.78  | 8  | 0638 1.47  | 23 | 0207 2.87  |
| W         | 1229 2.03  | Th | 0854 -2.48 | F  | 0858 -1.50 | Sa | 0857 -2.77 |
|           | 1848 -1.84 |    | 1323 2.70  |    | 1341 1.78  |    | 1453 3.80  |
|           |            |    | 2009 -2.48 |    | 2040 -1.55 |    | 2142 -3.52 |
| 9         | 0142 1.72  | 24 | 0214 2.73  | 9  | 0234 1.93  | 24 | 0334 3.78  |
| Th        | 0754 -1.86 | F  | 0908 -2.60 | Sa | 0938 -1.88 | Su | 1017 -3.87 |
|           | 1434 2.04  |    | 1804 3.28  |    | 1522 2.63  |    | 1608 4.57  |
|           | 2138 -1.92 |    | 2159 -3.20 |    | 2206 -2.64 |    | 2248 -4.36 |
| 10        | 0333 2.28  | 25 | 0349 3.51  | 10 | 0400 2.99  | 25 | 0439 4.99  |
| F         | 1009 -2.44 | Sa | 1036 -3.46 | Su | 1031 -3.07 | M  | 1120 -4.51 |
|           | 1800 2.93  |    | 1825 4.35  |    | 1818 3.73  |    | 1702 8.38  |
|           | 2240 -2.87 |    | 2312 -4.22 |    | 2257 -3.82 |    | 2345 -4.85 |
| 11        | 0437 3.25  | 26 | 0500 4.80  | 11 | 0447 4.03  | 26 | 0628 6.34  |
| Sa        | 1101 -3.43 | Su | 1143 -4.48 | M  | 1119 -3.85 | Tu | 1210 -6.00 |
|           | 1855 3.94  |    | 1725 5.38  |    | 1702 4.68  |    | 1748 5.81  |
|           | 2327 -3.84 |    |            |    | 2344 -4.31 |    |            |
| 12        | 0523 4.15  | 27 | 0611 -5.04 | 12 | 0628 4.84  | 27 | 0032 -6.18 |
| Su        | 1148 -4.16 | M  | 0833 5.44  | Tu | 1204 -4.53 | W  | 0610 5.94  |
|           | 1737 4.72  |    | 1237 -6.18 |    | 1743 5.34  |    | 1252 -6.13 |
|           |            |    | 1813 8.01  |    |            |    | 1827 6.92  |
| 13        | 0613 -4.39 | 28 | 0101 -5.49 | 13 | 0029 -4.73 | 28 | 0111 -6.15 |
| M         | 0804 4.81  | Tu | 0838 8.88  | W  | 0807 5.41  | Th | 0845 5.73  |
|           | 1233 -4.59 | O  | 1321 -5.47 |    | 1249 -4.91 |    | 1328 -6.04 |
|           | 1818 5.25  |    | 1854 8.27  |    | 1822 5.78  |    | 1901 8.80  |
| 14        | 0658 -4.71 | 29 | 0142 -5.58 | 14 | 0113 -5.01 | 29 | 0144 -5.02 |
| Tu        | 0839 5.24  | W  | 0713 6.05  | Th | 0644 5.78  | F  | 0716 8.78  |
| ●         | 1315 -4.85 |    | 1359 -6.47 |    | 1330 -5.15 |    | 1358 -4.82 |
|           | 1852 5.80  |    | 1830 8.31  | ●  | 1858 8.07  |    | 1934 5.81  |
| 15        | 0139 -4.91 | 30 | 0218 -6.47 | 15 | 0153 -6.18 | 30 | 0213 -4.91 |
| W         | 0715 5.85  | Th | 0747 8.07  | F  | 0721 8.01  | Sa | 0747 6.70  |
|           | 1357 -5.04 |    | 1432 -6.31 |    | 1409 -5.28 |    | 1424 -4.79 |
|           | 1927 5.88  |    | 2003 8.22  |    | 1936 8.20  |    | 2008 5.58  |
|           |            |    |            |    |            | 31 | 0237 -4.78 |
|           |            |    |            |    |            | Su | 0818 6.44  |
|           |            |    |            |    |            |    | 1447 -4.59 |
|           |            |    |            |    |            |    | 2038 5.11  |

# BURNHAM

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| November |      |       | December |      |       |
|----------|------|-------|----------|------|-------|
| Time     | m    |       | Time     | m    |       |
| 1        | 0301 | -4.48 | 1        | 0304 | -4.05 |
| M        | 0844 | 4.63  | W        | 0853 | 4.40  |
|          | 1510 | -4.24 |          | 1518 | -3.84 |
|          | 2104 | 4.43  |          | 2118 | 3.90  |
| 2        | 0323 | -4.06 | 2        | 0332 | -3.70 |
| Tu       | 0910 | 4.28  | Th       | 0925 | 3.93  |
|          | 1534 | -3.80 |          | 1550 | -3.52 |
|          | 2130 | 3.68  |          | 2149 | 3.43  |
| 3        | 0347 | -3.57 | 3        | 0405 | -3.34 |
| W        | 0937 | 3.60  | F        | 1002 | 3.51  |
|          | 1503 | -3.31 |          | 1629 | -3.18 |
|          | 2159 | 2.97  |          | 2230 | 3.00  |
| 4        | 0417 | -3.05 | 4        | 0448 | -2.99 |
| Th       | 1009 | 2.95  | Sa       | 1048 | 3.12  |
|          | 1639 | -2.79 |          | 1719 | -2.86 |
|          | 2237 | 2.34  |          | 2321 | 2.67  |
| 5        | 0500 | -2.50 | 5        | 0543 | -2.68 |
| F        | 1100 | 2.37  | Su       | 1149 | 2.87  |
| C        | 1732 | -2.27 |          | 1824 | -2.63 |
|          | 2347 | 1.88  |          |      |       |
| 6        | 0503 | -2.00 | 6        | 0630 | 2.54  |
| Sa       | 1231 | 2.08  | M        | 0654 | -2.51 |
|          | 1858 | -1.93 |          | 1304 | 2.91  |
|          |      |       |          | 1941 | -2.63 |
| 7        | 0141 | 1.98  | 7        | 0150 | 2.79  |
| Su       | 0754 | -1.89 | Tu       | 0817 | -2.65 |
|          | 1417 | 2.64  |          | 1421 | 3.34  |
|          | 2108 | -2.37 |          | 2103 | -2.98 |
| 8        | 0301 | 2.75  | 8        | 0301 | 3.40  |
| M        | 0839 | -2.67 | W        | 0838 | -3.15 |
|          | 1525 | 3.46  |          | 1526 | 4.02  |
|          | 2211 | -3.24 |          | 2213 | -3.54 |
| 9        | 0357 | 3.72  | 9        | 0400 | 4.18  |
| Tu       | 1035 | -3.54 | Th       | 1042 | -3.78 |
|          | 1817 | 4.39  |          | 1824 | 4.72  |
|          | 2303 | -3.97 |          | 2313 | -4.10 |
| 10       | 0445 | 4.80  | 10       | 0454 | 4.91  |
| W        | 1127 | -4.22 | F        | 1140 | -4.35 |
|          | 1703 | 5.15  |          | 1717 | 5.30  |
|          | 2353 | -4.50 |          |      |       |
| 11       | 0529 | 5.29  | 11       | 0508 | -4.57 |
| Th       | 1215 | -4.71 | Sa       | 0544 | 5.47  |
|          | 1748 | 5.89  |          | 1232 | -4.80 |
|          |      |       |          | 1807 | 5.88  |
| 12       | 0640 | -4.87 | 12       | 0556 | -4.89 |
| F        | 0813 | 5.79  | Su       | 0633 | 5.84  |
| ©        | 1301 | -5.05 |          | 1321 | -5.07 |
|          | 1830 | 6.01  |          | 1857 | 5.88  |
| 13       | 0124 | -5.10 | 13       | 0145 | -5.03 |
| Sa       | 0854 | 6.02  | M        | 0721 | 6.01  |
|          | 1343 | -5.23 |          | 1408 | -5.17 |
|          | 1913 | 6.13  |          | 1946 | 6.89  |
| 14       | 0204 | -5.10 | 14       | 0231 | -5.00 |
| Su       | 0736 | 6.08  | Tu       | 0809 | 6.98  |
|          | 1423 | -5.23 |          | 1455 | -5.09 |
|          | 1958 | 6.02  |          | 2034 | 5.72  |
| 15       | 0242 | -5.02 | 15       | 0315 | -4.81 |
| M        | 0817 | 5.89  | W        | 0858 | 5.77  |
|          | 1502 | -5.02 |          | 1543 | -4.87 |
|          | 2038 | 5.67  |          | 2124 | 5.38  |
| 16       | 0318 | -4.68 | 16       | 0400 | -4.51 |
| Tu       | 0901 | 5.46  | Th       | 0948 | 5.40  |
|          | 1539 | -4.84 |          | 1631 | -4.57 |
|          | 2125 | 5.08  |          | 2214 | 4.92  |
| 17       | 0355 | -4.24 | 17       | 0448 | -4.17 |
| W        | 0948 | 4.85  | F        | 1039 | 4.93  |
|          | 1622 | -4.15 |          | 1722 | -4.23 |
|          | 2217 | 4.37  |          | 2308 | 4.41  |
| 18       | 0439 | -3.73 | 18       | 0540 | -3.83 |
| Th       | 1044 | 4.20  | Sa       | 1134 | 4.47  |
|          | 1716 | -3.65 |          | 1818 | -3.92 |
|          | 2316 | 3.73  |          |      |       |
| 19       | 0538 | -3.24 | 19       | 0601 | 3.95  |
| F        | 1149 | 3.72  | Su       | 0636 | -3.54 |
| ©        | 1828 | -3.28 |          | 1233 | 4.09  |
|          |      |       |          | 1918 | -3.68 |
| 20       | 0625 | 3.35  | 20       | 0102 | 3.82  |
| Sa       | 0859 | -2.86 | M        | 0741 | -3.31 |
|          | 1305 | 3.80  |          | 1338 | 3.87  |
|          | 1953 | -3.29 |          | 2018 | -3.50 |
| 21       | 0142 | 3.37  | 21       | 0208 | 3.50  |
| Su       | 0827 | -3.13 | Tu       | 0848 | -3.22 |
|          | 1422 | 3.88  |          | 1444 | 3.85  |
|          | 2108 | -3.68 |          | 2122 | -3.46 |
| 22       | 0258 | 3.78  | 22       | 0318 | 3.82  |
| M        | 0940 | -3.60 | W        | 0894 | -3.30 |
|          | 1531 | 4.41  |          | 1547 | 3.98  |
|          | 2212 | -4.07 |          | 2223 | -3.57 |
| 23       | 0403 | 4.33  | 23       | 0415 | 3.90  |
| Tu       | 1043 | -4.06 | Th       | 1054 | -3.52 |
|          | 1629 | 4.88  |          | 1641 | 4.19  |
|          | 2309 | -4.38 |          | 2318 | -3.78 |
| 24       | 0444 | 4.77  | 24       | 0505 | 4.23  |
| W        | 1138 | -4.38 | F        | 1143 | -3.78 |
|          | 1717 | 5.14  |          | 1729 | 4.40  |
|          | 2356 | -4.52 |          |      |       |
| 25       | 0537 | 5.02  | 25       | 0601 | -4.02 |
| Th       | 1218 | -4.46 | Sa       | 0548 | 4.53  |
|          | 1758 | 6.23  |          | 1223 | -4.01 |
|          |      |       |          | 1813 | 4.56  |
| 26       | 0638 | -4.55 | 26       | 0641 | -4.22 |
| F        | 0815 | 5.16  | Su       | 0828 | 4.77  |
| ©        | 1254 | -4.48 |          | 1301 | -4.17 |
|          | 1834 | 6.25  |          | 1853 | 4.70  |
| 27       | 0110 | -4.56 | 27       | 0118 | -4.35 |
| Su       | 0648 | 5.28  | M        | 0705 | 4.90  |
|          | 1327 | -4.49 |          | 1336 | -4.24 |
|          | 1909 | 5.72  |          | 1930 | 4.73  |
| 28       | 0141 | -4.58 | 28       | 0153 | -4.37 |
| Su       | 0721 | 6.29  | Tu       | 0739 | 4.82  |
|          | 1358 | -4.47 |          | 1411 | -4.23 |
|          | 1943 | 5.09  |          | 2003 | 4.67  |
| 29       | 0210 | -4.53 | 29       | 0226 | -4.28 |
| M        | 0753 | 6.14  | W        | 0812 | 4.85  |
|          | 1424 | -4.37 |          | 1443 | -4.15 |
|          | 2015 | 4.80  |          | 2036 | 4.56  |
| 30       | 0237 | -4.35 | 30       | 0258 | -4.17 |
| Tu       | 0823 | 4.83  | Th       | 0843 | 4.74  |
|          | 1450 | -4.14 |          | 1515 | -4.05 |
|          | 2045 | 4.38  |          | 2107 | 4.42  |
|          |      |       | 31       | 0330 | -4.03 |
|          |      |       | F        | 0918 | 4.57  |
|          |      |       |          | 1549 | -3.93 |
|          |      |       |          | 2141 | 4.20  |

# WESTON-SUPER-MARE

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| January |      |       | February |      |       |
|---------|------|-------|----------|------|-------|
|         | Time | m     |          | Time | m     |
| 1       | 0111 | 3.05  | 1        | 0211 | 2.45  |
| Th      | 0712 | -2.83 | Sa       | 0828 | -2.49 |
|         | 1348 | 3.23  |          | 1500 | 2.58  |
|         | 1958 | -3.10 |          | 2113 | -2.83 |
| 2       | 0217 | 2.90  | 2        | 0333 | 2.84  |
| F       | 0827 | -2.88 | M        | 0944 | -3.00 |
|         | 1456 | 3.26  |          | 1612 | 3.11  |
|         | 2100 | -3.20 |          | 2207 | -3.44 |
| 3       | 0323 | 3.21  | 3        | 0438 | 3.57  |
| Sa      | 0929 | -3.14 | Tu       | 1030 | -3.65 |
|         | 1555 | 3.65  |          | 1708 | 3.81  |
|         | 2151 | -3.62 |          | 2250 | -4.03 |
| 4       | 0419 | 3.68  | 4        | 0527 | 4.32  |
| Su      | 1018 | -3.55 |          | 1111 | -4.15 |
|         | 1647 | 3.96  | W        | 1754 | 4.43  |
|         | 2233 | -3.91 |          | 2330 | -4.43 |
| 5       | 0507 | 4.20  | 5        | 0609 | 4.89  |
| M       | 1054 | -3.96 |          | 1152 | -4.48 |
|         | 1732 | 4.35  | Th       | 1835 | 4.98  |
|         | 2312 | -4.27 |          |      |       |
| 6       | 0548 | 4.68  | 6        | 0010 | -4.86 |
| Tu      | 1131 | -4.28 | F        | 0648 | 5.30  |
|         | 1812 | 4.68  |          | 1233 | -4.84 |
|         | 2348 | -4.50 |          | 1913 | 5.25  |
| 7       | 0628 | 4.97  | 7        | 0051 | -4.81 |
| W       | 1208 | -4.44 |          | 0725 | 5.62  |
| O       | 1850 | 4.98  | Sa       | 1314 | -4.79 |
|         |      |       |          | 1949 | 5.50  |
| 8       | 0625 | -4.60 | 8        | 0132 | -4.94 |
| Th      | 0703 | 5.17  |          | 0802 | 5.91  |
|         | 1245 | -4.50 | Su       | 1358 | -4.94 |
|         | 1927 | 4.99  |          | 2028 | 5.80  |
| 9       | 0102 | -4.82 | 9        | 0212 | -5.04 |
| F       | 0739 | 5.31  |          | 0839 | 6.07  |
|         | 1322 | -4.51 | M        | 1437 | -5.00 |
|         | 2003 | 5.10  |          | 2102 | 5.84  |
| 10      | 0139 | -4.80 | 10       | 0252 | -5.02 |
| Sa      | 0815 | 5.40  |          | 0917 | 6.01  |
|         | 1401 | -4.51 | Tu       | 1516 | -4.90 |
|         | 2040 | 5.18  |          | 2139 | 5.99  |
| 11      | 0218 | -4.55 | 11       | 0329 | -4.84 |
| Su      | 0853 | 6.41  |          | 0954 | 5.88  |
|         | 1441 | -4.47 | W        | 1650 | -4.88 |
|         | 2118 | 5.09  |          | 2215 | 5.89  |
| 12      | 0258 | -4.48 | 12       | 0405 | -4.66 |
| M       | 0932 | 5.27  |          | 1033 | 6.10  |
|         | 1523 | -4.38 | Th       | 1627 | -4.33 |
|         | 2157 | 4.85  |          | 2254 | 4.46  |
| 13      | 0340 | -4.31 | 13       | 0447 | -4.20 |
| Tu      | 1013 | 4.98  |          | 1116 | 4.44  |
|         | 1607 | -4.21 | F        | 1713 | -3.94 |
|         | 2238 | 4.47  |          | 2339 | 3.80  |
| 14      | 0424 | -4.11 | 14       | 0537 | -3.77 |
| W       | 1058 | 4.80  |          | 1210 | 3.78  |
|         | 1658 | -4.00 | Sa       | 1811 | -3.48 |
|         | 2323 | 4.03  |          |      |       |
| 15      | 0518 | -3.87 | 15       | 0046 | 3.23  |
| Th      | 1148 | 4.20  |          | 0650 | -3.29 |
| C       | 1752 | -3.75 |          | 1330 | 3.28  |
|         |      |       |          | 1935 | -3.04 |
| 16      | 0619 | 3.84  | 16       | 0220 | 3.09  |
| F       | 0821 | -3.61 |          | 0835 | -3.10 |
|         | 1250 | 3.88  | M        | 1501 | 3.30  |
|         | 1900 | -3.50 |          | 2119 | -3.17 |
| 17      | 0131 | 3.44  | 17       | 0344 | 3.61  |
| Sa      | 0734 | -3.39 |          | 0958 | -3.98 |
|         | 1407 | 3.79  | Tu       | 1629 | 3.60  |
|         | 2017 | -3.38 |          | 2231 | -3.77 |
| 18      | 0250 | 3.84  | 18       | 0459 | 4.80  |
| Su      | 0800 | -3.45 |          | 1101 | -4.27 |
|         | 1523 | 4.05  | W        | 1734 | 4.75  |
|         | 2136 | -3.66 |          | 2329 | -4.46 |
| 19      | 0401 | 4.18  | 19       | 0559 | 5.38  |
| M       | 1010 | -3.85 |          | 1156 | -4.88 |
|         | 1632 | 4.53  | Th       | 1827 | 5.49  |
|         | 2240 | -4.01 |          |      |       |
| 20      | 0505 | 4.87  | 20       | 0018 | -4.99 |
| Tu      | 1108 | -4.34 |          | 0647 | 6.01  |
|         | 1736 | 6.08  | F        | 1242 | -5.28 |
|         | 2336 | -4.47 |          | 1913 | 5.98  |
| 21      | 0603 | 5.51  | 21       | 0102 | -5.29 |
| W       | 1202 | -4.78 |          | 0730 | 6.36  |
|         | 1833 | 5.57  | Sa       | 1324 | -5.45 |
|         |      |       |          | 1952 | 6.18  |
| 22      | 0628 | -4.84 | 22       | 0142 | -5.37 |
| Th      | 0856 | 5.99  |          | 0808 | 6.45  |
|         | 1261 | -5.09 | Su       | 1402 | -5.42 |
|         | 1923 | 5.91  |          | 2029 | 6.20  |
| 23      | 0114 | -5.08 | 23       | 0218 | -5.27 |
| F       | 0743 | 6.27  |          | 0845 | 6.34  |
|         | 1338 | -6.24 | M        | 1437 | -5.24 |
|         | 2009 | 6.05  |          | 2102 | 5.88  |
| 24      | 0159 | -5.11 | 24       | 0249 | -5.03 |
| Sa      | 0829 | 6.32  |          | 0919 | 5.98  |
|         | 1424 | -5.20 | Tu       | 1507 | -4.84 |
|         | 2051 | 5.97  |          | 2134 | 6.52  |
| 25      | 0241 | -4.98 | 25       | 0315 | -4.70 |
| Su      | 0910 | 6.11  |          | 0951 | 5.33  |
|         | 1508 | -6.00 | W        | 1532 | -4.67 |
|         | 2130 | 5.64  |          | 2201 | 4.87  |
| 26      | 0321 | -4.70 | 26       | 0339 | -4.33 |
| M       | 0950 | 6.86  |          | 1019 | 4.55  |
|         | 1544 | -4.87 | Th       | 1557 | -4.17 |
|         | 2208 | 5.11  |          | 2227 | 4.15  |
| 27      | 0354 | -4.34 | 27       | 0405 | -3.84 |
| Tu      | 1028 | 6.03  |          | 1047 | 3.73  |
|         | 1616 | -4.27 | F        | 1627 | -3.73 |
|         | 2242 | 4.45  |          | 2256 | 3.42  |
| 28      | 0427 | -3.95 | 28       | 0439 | -3.48 |
| W       | 1104 | 4.31  |          | 1121 | 2.82  |
|         | 1652 | -3.86 | Sa       | 1706 | -3.20 |
|         | 2317 | 3.78  |          | 2335 | 2.68  |
| 29      | 0500 | -3.58 | 29       | 0527 | -2.92 |
| Th      | 1142 | 3.80  |          | 1217 | 2.18  |
|         | 1730 | -3.44 | Su       | 1804 | -2.81 |
|         | 2356 | 3.16  |          |      |       |
| 30      | 0642 | -3.13 |          |      |       |
| F       | 1231 | 2.98  |          |      |       |
|         | 1819 | -2.99 |          |      |       |
| 31      | 0062 | 2.84  |          |      |       |
| Sa      | 0643 | -2.68 |          |      |       |
|         | 1339 | 2.53  |          |      |       |
|         | 1938 | -2.83 |          |      |       |

## WESTON-SUPER-MARE

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| March    |      |       |          | April |       |          |      |       |
|----------|------|-------|----------|-------|-------|----------|------|-------|
|          | Time | m     |          | Time  | m     |          | Time | m     |
| 1<br>M   | 0051 | 2.07  | 16<br>Tu | 0204  | 2.82  | 1<br>Th  | 0329 | 2.82  |
|          | 0840 | -2.35 |          | 0829  | -3.01 |          | 0839 | -3.28 |
|          | 1400 | 1.85  |          | 1482  | 2.92  |          | 1807 | 3.24  |
|          | 2012 | -2.25 |          | 2111  | -3.08 |          | 2202 | -3.62 |
| 2<br>Tu  | 0245 | 2.18  | 17<br>W  | 0339  | 3.46  | 2<br>F   | 0427 | 3.88  |
|          | 0913 | -2.55 |          | 0951  | -3.08 |          | 1028 | -4.07 |
|          | 1539 | 2.45  |          | 1821  | 3.78  |          | 1857 | 4.36  |
|          | 2142 | -2.99 |          | 2224  | -3.87 |          | 2247 | -4.35 |
| 3<br>W   | 0407 | 3.09  | 18<br>Th | 0451  | 4.55  | 3<br>Sa  | 0813 | 4.97  |
|          | 1008 | -3.42 |          | 1052  | -4.48 |          | 1111 | -4.84 |
|          | 1643 | 3.48  |          | 1724  | 4.83  |          | 1741 | 5.23  |
|          | 2229 | -3.81 |          | 2318  | -4.87 |          | 2331 | -4.85 |
| 4<br>Th  | 0502 | 4.11  | 19<br>F  | 0548  | 5.49  | 4<br>Su  | 0857 | 5.70  |
|          | 1052 | -4.13 |          | 1141  | -5.09 |          | 1155 | -5.02 |
|          | 1731 | 4.39  |          | 1812  | 5.58  |          | 1821 | 5.65  |
|          | 2312 | -4.41 |          |       |       |          |      |       |
| 5<br>F   | 0540 | 4.95  | 20<br>Sa | 0602  | -5.18 | 5<br>M   | 0914 | -5.22 |
|          | 1135 | -4.59 |          | 0631  | 6.03  |          | 0937 | 6.21  |
|          | 1811 | 5.11  |          | 1223  | -5.38 |          | 1237 | -5.31 |
|          | 2354 | -4.80 |          | 1852  | 5.97  |          | 1900 | 6.27  |
| 6<br>Sa  | 0626 | 5.55  | 21<br>Su | 0042  | -5.38 | 6<br>Tu  | 0054 | -5.49 |
|          | 1216 | -4.89 |          | 0709  | 6.27  |          | 0718 | 6.53  |
|          | 1850 | 5.63  |          | 1301  | -5.43 |          | 1316 | -5.49 |
|          |      |       |          | 1928  | 6.13  |          | 1938 | 6.50  |
| 7<br>Su  | 0038 | -5.08 | 22<br>M  | 0116  | -5.37 | 7<br>W   | 0133 | -5.53 |
|          | 0704 | 5.99  |          | 0743  | 6.33  |          | 0754 | 6.66  |
|          | 1259 | -5.14 |          | 1333  | -5.38 |          | 1394 | -5.51 |
|          | 1828 | 6.02  |          | 1959  | 6.17  |          | 2015 | 6.49  |
| 8<br>M   | 0116 | -5.31 | 23<br>Tu | 0148  | -5.28 | 8<br>Th  | 0209 | -5.57 |
|          | 0741 | 6.34  |          | 0815  | 6.25  |          | 0833 | 6.49  |
|          | 1340 | -5.33 |          | 1401  | -5.24 |          | 1429 | -5.31 |
|          | 2004 | 6.29  |          | 2029  | 6.05  |          | 2053 | 6.15  |
| 9<br>Tu  | 0156 | -5.45 | 24<br>W  | 0212  | -5.13 | 9<br>F   | 0244 | -5.32 |
|          | 0818 | 6.32  |          | 0548  | 6.94  |          | 0912 | 5.98  |
|          | 1419 | -5.38 |          | 1428  | -5.04 |          | 1458 | -4.95 |
|          | 2040 | 6.31  |          | 2057  | 5.88  |          | 2130 | 5.50  |
| 10<br>W  | 0233 | -5.42 | 25<br>Th | 0234  | -4.90 | 10<br>Sa | 0317 | -4.81 |
|          | 0855 | 5.42  |          | 0918  | 6.37  |          | 0952 | 5.13  |
|          | 1453 | -5.22 |          | 1449  | -4.76 |          | 1532 | -4.90 |
|          | 2115 | 6.02  |          | 2123  | 5.08  |          | 2213 | 4.84  |
| 11<br>Th | 0307 | -5.19 | 26<br>F  | 0258  | -4.56 | 11<br>Su | 0357 | -4.41 |
|          | 0931 | 6.97  |          | 0940  | 4.60  |          | 1039 | 4.17  |
|          | 1525 | -4.90 |          | 1512  | -4.38 |          | 1617 | -3.95 |
|          | 2151 | 5.41  |          | 2147  | 4.35  |          | 2305 | 3.74  |
| 12<br>F  | 0339 | -4.82 | 27<br>Sa | 0322  | -4.19 | 12<br>M  | 0453 | -3.81 |
|          | 1009 | 5.25  |          | 1005  | 3.78  |          | 1142 | 3.26  |
|          | 1557 | -4.48 |          | 1540  | -3.93 |          | 1722 | -3.34 |
|          | 2229 | 4.83  |          | 2212  | 3.88  |          |      |       |
| 13<br>Sa | 0417 | -4.36 | 28<br>Su | 0358  | -3.73 | 13<br>Tu | 0022 | 3.04  |
|          | 1051 | 4.37  |          | 1033  | 2.94  |          | 0818 | -3.24 |
|          | 1639 | -4.00 |          | 1816  | -3.41 |          | 1308 | 2.78  |
|          | 2313 | 3.79  |          | 2245  | 2.83  |          | 1906 | -2.88 |
| 14<br>Su | 0506 | -3.83 | 29<br>M  | 0436  | -3.18 | 14<br>W  | 0158 | 2.99  |
|          | 1145 | 3.47  |          | 1117  | 2.18  |          | 0818 | -3.26 |
|          | 1736 | -3.40 |          | 1708  | -2.83 |          | 1443 | 3.03  |
|          |      |       |          | 2345  | 2.12  |          | 2056 | -3.26 |
| 15<br>M  | 0022 | 3.03  | 30<br>Tu | 0542  | -2.80 | 15<br>Th | 0324 | 3.89  |
|          | 0822 | -3.21 |          | 1250  | 1.83  |          | 0834 | -3.93 |
|          | 1312 | 2.82  |          | 1829  | -2.30 |          | 1803 | 3.93  |
|          | 1909 | -2.84 |          |       |       |          | 2208 | -4.05 |
|          |      |       | 31<br>W  | 0147  | 1.93  |          |      |       |
|          |      |       |          | 0815  | -2.38 |          |      |       |
|          |      |       |          | 1459  | 2.11  |          |      |       |
|          |      |       |          | 2109  | -2.69 |          |      |       |
| 16<br>F  | 0432 | 4.68  | 17<br>Sa | 0629  | 6.43  | 16<br>Su | 0829 | 5.43  |
|          | 1032 | -4.61 |          | 1118  | -5.04 |          | 1118 | -5.04 |
|          | 1702 | 4.85  |          | 1747  | 5.43  |          | 1747 | 5.43  |
|          | 2257 | -4.72 |          | 2338  | -5.05 |          | 2338 | -5.05 |
| 17<br>M  | 0629 | 5.43  | 18<br>Tu | 0805  | 5.78  | 17<br>W  | 0805 | 5.78  |
|          | 1118 | -5.04 |          | 1156  | -5.18 |          | 1156 | -5.18 |
|          | 1747 | 5.43  |          | 1825  | 5.69  |          | 1825 | 5.69  |
|          |      |       |          |       |       |          |      |       |
| 18<br>Tu | 0014 | -5.12 | 19<br>W  | 0045  | -5.08 | 18<br>Th | 0014 | -5.12 |
|          | 0640 | 5.68  |          | 0713  | 5.90  |          | 0640 | 5.68  |
|          | 1229 | -5.13 |          | 1296  | -5.09 |          | 1229 | -5.13 |
|          | 1858 | 5.60  |          | 1928  | 5.87  |          | 1858 | 5.60  |
| 19<br>W  | 0111 | -5.08 | 20<br>Th | 0111  | -5.08 | 19<br>F  | 0111 | -5.08 |
|          | 0745 | 5.88  |          | 0745  | 5.88  |          | 0745 | 5.88  |
|          | 1325 | -5.08 |          | 1325  | -5.08 |          | 1325 | -5.08 |
|          | 1958 | 5.83  |          | 1958  | 5.83  |          | 1958 | 5.83  |
| 20<br>Th | 0136 | -5.03 | 21<br>M  | 0136  | -5.03 | 20<br>Tu | 0136 | -5.03 |
|          | 0814 | 5.83  |          | 0814  | 5.83  |          | 0814 | 5.83  |
|          | 1350 | -5.00 |          | 1350  | -5.00 |          | 1350 | -5.00 |
|          | 2025 | 5.66  |          | 2025  | 5.66  |          | 2025 | 5.66  |
| 21<br>F  | 0159 | -4.81 | 22<br>Sa | 0159  | -4.81 | 21<br>W  | 0159 | -4.81 |
|          | 0843 | 5.18  |          | 0843  | 5.18  |          | 0843 | 5.18  |
|          | 1412 | -4.80 |          | 1412  | -4.80 |          | 1412 | -4.80 |
|          | 2050 | 5.08  |          | 2050  | 5.08  |          | 2050 | 5.08  |
| 22<br>M  | 0223 | -4.85 | 23<br>Tu | 0223  | -4.85 | 22<br>Th | 0223 | -4.85 |
|          | 0910 | 4.50  |          | 0910  | 4.50  |          | 0910 | 4.50  |
|          | 1437 | -4.46 |          | 1437  | -4.46 |          | 1437 | -4.46 |
|          | 2118 | 4.41  |          | 2118  | 4.41  |          | 2118 | 4.41  |
| 23<br>W  | 0251 | -4.30 | 24<br>Th | 0251  | -4.30 | 23<br>F  | 0251 | -4.30 |
|          | 0937 | 3.76  |          | 0937  | 3.76  |          | 0937 | 3.76  |
|          | 1508 | -4.05 |          | 1508  | -4.05 |          | 1508 | -4.05 |
|          | 2148 | 3.72  |          | 2148  | 3.72  |          | 2148 | 3.72  |
| 24<br>Th | 0325 | -3.88 | 25<br>M  | 0325  | -3.88 | 24<br>Sa | 0325 | -3.88 |
|          | 1008 | 3.08  |          | 1008  | 3.08  |          | 1008 | 3.08  |
|          | 1544 | -3.80 |          | 1544  | -3.80 |          | 1544 | -3.80 |
|          | 2221 | 3.07  |          | 2221  | 3.07  |          | 2221 | 3.07  |
| 25<br>F  | 0407 | -3.43 | 26<br>Sa | 0407  | -3.43 | 25<br>Su | 0407 | -3.43 |
|          | 1052 | 2.43  |          | 1052  | 2.43  |          | 1052 | 2.43  |
|          | 1634 | -3.13 |          | 1634  | -3.13 |          | 1634 | -3.13 |
|          | 2317 | 2.60  |          | 2317  | 2.60  |          | 2317 | 2.60  |
| 26<br>M  | 0512 | -2.98 | 27<br>Tu | 0512  | -2.98 | 26<br>Th | 0512 | -2.98 |
|          | 1207 | 2.00  |          | 1207  | 2.00  |          | 1207 | 2.00  |
|          | 1751 | -3.71 |          | 1751  | -3.71 |          | 1751 | -3.71 |
|          |      |       |          |       |       |          |      |       |
| 27<br>W  | 0052 | 2.28  | 28<br>Th | 0052  | 2.28  | 27<br>F  | 0052 | 2.28  |
|          | 0655 | -2.74 |          | 0655  | -2.74 |          | 0655 | -2.74 |
|          | 1358 | 2.24  |          | 1358  | 2.24  |          | 1358 | 2.24  |
|          | 1958 | -2.74 |          | 1958  | -2.74 |          | 1958 | -2.74 |
| 28<br>Th | 0234 | 2.88  | 29<br>M  | 0234  | 2.88  | 28<br>Sa | 0234 | 2.88  |
|          | 0850 | -3.24 |          | 0850  | -3.24 |          | 0850 | -3.24 |
|          | 1518 | 3.19  |          | 1518  | 3.19  |          | 1518 | 3.19  |
|          | 2120 | -3.49 |          | 2120  | -3.49 |          | 2120 | -3.49 |

**WESTON-SUPER-MARE**

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| May |      |       | June |      |       |
|-----|------|-------|------|------|-------|
|     | Time | m     |      | Time | m     |
| 1   | 0341 | 3.93  | 1    | 0447 | 5.38  |
| Sa  | 0848 | -3.98 | Tu   | 1053 | -4.83 |
|     | 1815 | 4.24  |      | 1718 | 8.49  |
|     | 2212 | -4.19 |      | 2318 | -4.83 |
| 2   | 0434 | 4.90  | 2    | 0538 | 6.80  |
| Su  | 1038 | -4.52 |      | 1141 | -4.94 |
|     | 1704 | 5.14  |      | 1804 | 5.83  |
|     | 2301 | -4.71 |      |      |       |
| 3   | 0522 | 5.88  | 3    | 0603 | -5.14 |
| M   | 1125 | -4.82 | Th   | 0827 | 6.08  |
|     | 1745 | 5.80  | O    | 1227 | -5.14 |
|     | 2348 | -5.12 |      | 1852 | 6.17  |
| 4   | 0606 | 6.18  | 4    | 0048 | -5.31 |
| Tu  | 1209 | -5.22 | F    | 0715 | 8.13  |
| O   | 1831 | 6.23  |      | 1310 | -5.18 |
|     |      |       |      | 1939 | 6.21  |
| 5   | 0029 | -5.41 | 5    | 0132 | -5.32 |
| W   | 0648 | 6.44  | Sa   | 0804 | 5.89  |
|     | 1250 | -5.40 |      | 1353 | -5.08 |
|     | 1913 | 6.44  |      | 2020 | 6.02  |
| 6   | 0108 | -5.35 | 6    | 0217 | -5.15 |
| Th  | 0731 | 6.50  | Su   | 0853 | 6.84  |
|     | 1328 | -5.41 |      | 1437 | -4.80 |
|     | 1953 | 6.41  |      | 2118 | 5.62  |
| 7   | 0148 | -5.51 | 7    | 0308 | -4.88 |
| F   | 0814 | 6.29  | M    | 0843 | 5.12  |
|     | 1408 | -5.23 |      | 1525 | -4.48 |
|     | 2038 | 6.10  |      | 2208 | 5.08  |
| 8   | 0225 | -5.29 | 8    | 0400 | -4.51 |
| Sa  | 0855 | 6.77  | Tu   | 1038 | 4.53  |
|     | 1441 | -4.88 |      | 1819 | -4.15 |
|     | 2120 | 5.49  |      | 2301 | 4.52  |
| 9   | 0305 | -4.87 | 9    | 0500 | -4.18 |
| Su  | 0948 | 5.00  | W    | 1131 | 4.00  |
|     | 1521 | -4.43 | C    | 1722 | -3.79 |
|     | 2209 | 4.71  |      |      |       |
| 10  | 0352 | -4.38 | 10   | 0000 | 4.08  |
| M   | 1039 | 4.16  | Th   | 0607 | -3.93 |
|     | 1813 | -3.82 |      | 1230 | 3.62  |
|     | 2307 | 3.98  |      | 1833 | -3.68 |
| 11  | 0455 | -3.88 | 11   | 0104 | 3.83  |
| Tu  | 1143 | 3.48  | F    | 0716 | -3.82 |
| C   | 1723 | -3.44 |      | 1335 | 3.47  |
|     |      |       |      | 1945 | -3.83 |
| 12  | 0018 | 3.46  | 12   | 0211 | 3.80  |
| W   | 0623 | -3.33 | Sa   | 0820 | -3.82 |
|     | 1257 | 3.14  |      | 1442 | 3.58  |
|     | 1902 | -3.22 |      | 2049 | -3.81 |
| 13  | 0137 | 3.43  | 13   | 0314 | 3.98  |
| Th  | 0758 | -3.83 | Su   | 0918 | -3.91 |
|     | 1417 | 3.32  |      | 1543 | 3.83  |
|     | 2030 | -3.60 |      | 2143 | -3.78 |
| 14  | 0234 | 3.89  | 14   | 0410 | 4.17  |
| F   | 0904 | -4.02 | M    | 1005 | -4.03 |
|     | 1530 | 3.89  |      | 1834 | 4.15  |
|     | 2134 | -3.98 |      | 2229 | -3.97 |
| 15  | 0359 | 4.80  | 15   | 0457 | 4.38  |
| Sa  | 0958 | -4.40 | Tu   | 1045 | -4.18 |
|     | 1627 | 4.80  |      | 1717 | 4.48  |
|     | 2225 | -4.37 |      | 2308 | -4.15 |
| 16  | 0450 | 4.98  | 16   | 0539 | 4.68  |
| Su  | 1045 | -4.82 |      | 1122 | -4.34 |
|     | 1713 | 4.90  |      | 1787 | 4.71  |
|     | 2308 | -4.87 |      | 2340 | -4.31 |
| 17  | 0534 | 6.18  | 17   | 0619 | 4.68  |
| M   | 1123 | -4.88 | Th   | 1158 | -4.49 |
|     | 1752 | 5.12  |      | 1832 | 4.91  |
|     | 2341 | -4.83 |      |      |       |
| 18  | 0610 | 5.25  | 18   | 0013 | -4.48 |
| Tu  | 1155 | -4.71 | F    | 0655 | 4.78  |
|     | 1828 | 5.28  |      | 1229 | -4.66 |
|     |      |       |      | 1907 | 5.01  |
| 19  | 0011 | -4.87 | 19   | 0048 | -4.51 |
| W   | 0643 | 5.29  | Sa   | 0731 | 4.75  |
|     | 1225 | -4.78 |      | 1302 | -4.59 |
| W   | 1857 | 5.38  |      | 1940 | 5.00  |
| 20  | 0038 | -4.74 | 20   | 0118 | -4.50 |
| Th  | 0718 | 5.28  | Su   | 0804 | 4.67  |
|     | 1283 | -4.83 |      | 1334 | -4.82 |
|     | 1828 | 5.41  |      | 2013 | 4.91  |
| 21  | 0107 | -4.78 | 21   | 0153 | -4.43 |
| F   | 0748 | 6.15  | M    | 0839 | 4.85  |
|     | 1320 | -4.82 |      | 1407 | -4.40 |
|     | 1958 | 5.28  |      | 2050 | 4.76  |
| 22  | 0134 | -4.72 | 22   | 0229 | -4.32 |
| Sa  | 0818 | 4.85  | Tu   | 0915 | 4.38  |
|     | 1348 | -4.88 |      | 1444 | -4.25 |
|     | 2028 | 4.93  |      | 2127 | 4.63  |
| 23  | 0201 | -4.65 | 23   | 0308 | -4.19 |
| Su  | 0849 | 4.41  | W    | 0954 | 4.11  |
|     | 1418 | -4.42 |      | 1528 | -4.08 |
|     | 2059 | 4.48  |      | 2209 | 4.28  |
| 24  | 0232 | -4.28 | 24   | 0384 | -4.03 |
| M   | 0922 | 3.91  | Th   | 1038 | 3.81  |
|     | 1447 | -4.12 |      | 1815 | -3.90 |
|     | 2134 | 3.99  |      | 2258 | 3.98  |
| 25  | 0308 | -4.00 | 25   | 0448 | -3.87 |
| Tu  | 0958 | 3.42  | F    | 1125 | 3.84  |
|     | 1527 | -3.80 |      | 1713 | -3.73 |
|     | 2214 | 3.82  |      | 2348 | 3.77  |
| 26  | 0356 | -3.70 | 26   | 0561 | -3.74 |
| W   | 1045 | 3.00  | Sa   | 1222 | 3.38  |
|     | 1819 | -3.49 |      | 1819 | -3.80 |
|     | 2307 | 3.18  |      |      |       |
| 27  | 0459 | -3.43 | 27   | 0081 | 3.71  |
| Th  | 1147 | 2.74  | Su   | 0701 | -3.68 |
|     | 1731 | -3.24 |      | 1332 | 3.42  |
|     |      |       |      | 1933 | -3.67 |
| 28  | 0018 | 3.03  | 28   | 0204 | 3.87  |
| F   | 0622 | -3.30 | M    | 0813 | -3.70 |
|     | 1305 | 2.80  |      | 1444 | 3.78  |
|     | 1901 | -3.21 |      | 2048 | -3.72 |
| 29  | 0139 | 3.30  | 29   | 0313 | 4.28  |
| Sa  | 0750 | -3.48 | Tu   | 0923 | -3.91 |
|     | 1424 | 3.31  |      | 1560 | 4.37  |
|     | 2025 | -3.82 |      | 2155 | -4.08 |
| 30  | 0252 | 3.94  | 30   | 0417 | 4.78  |
| Su  | 0900 | -3.87 | W    | 1024 | -4.24 |
|     | 1529 | 4.08  |      | 1849 | 4.98  |
|     | 2130 | -4.00 |      | 2252 | -4.48 |
| 31  | 0353 | 4.70  |      |      |       |
| M   | 0958 | -4.28 |      |      |       |
|     | 1625 | 4.88  |      |      |       |
|     | 2228 | -4.45 |      |      |       |

## WESTON-SUPER-MARE

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| July     |                                                    |          | August                                             |          |                                                    |
|----------|----------------------------------------------------|----------|----------------------------------------------------|----------|----------------------------------------------------|
| Time     | m                                                  |          | Time                                               | m        |                                                    |
| 1<br>Th  | 0518 5.21<br>1120 -4.58<br>1745 5.49<br>2345 -4.80 | 16<br>F  | 0807 4.30<br>1134 -4.32<br>1815 4.68<br>2355 -4.31 | 1<br>Su  | 0031 -5.08<br>0701 5.78<br>1255 -5.07<br>1923 5.23 |
| 2<br>F   | 0613 5.56<br>1210 -4.83<br>1839 5.87               | 17<br>Sa | 0841 4.55<br>1213 -4.48<br>1853 4.91               | 2<br>M   | 0121 -5.37<br>0749 6.04<br>1342 -5.27<br>2009 6.43 |
| 3<br>Sa  | 0037 -5.08<br>0707 5.78<br>1300 -4.99<br>1931 6.09 | 18<br>Su | 0033 -4.41<br>0719 4.72<br>1250 -4.51<br>1929 5.08 | 3<br>Tu  | 0208 -5.48<br>0834 6.12<br>1427 -5.27<br>2052 6.38 |
| 4<br>Su  | 0126 -5.21<br>0758 5.87<br>1350 -5.04<br>2019 6.13 | 19<br>M  | 0111 -4.48<br>0753 4.88<br>1328 -4.54<br>2004 5.19 | 4<br>W   | 0252 -5.38<br>0915 6.06<br>1510 -5.07<br>2134 6.07 |
| 5<br>M   | 0217 -5.22<br>0847 5.79<br>1438 -4.98<br>2109 5.98 | 20<br>Tu | 0150 -4.52<br>0829 4.90<br>1406 -4.57<br>2040 5.29 | 5<br>Th  | 0332 -5.08<br>0952 6.51<br>1545 -4.71<br>2212 5.48 |
| 6<br>Tu  | 0307 -5.09<br>0934 5.52<br>1528 -4.75<br>2155 5.82 | 21<br>W  | 0230 -4.58<br>0903 5.03<br>1444 -4.55<br>2117 5.25 | 6<br>F   | 0407 -4.85<br>1029 4.87<br>1618 -4.27<br>2250 4.73 |
| 7<br>W   | 0358 -4.84<br>1020 5.07<br>1613 -4.48<br>2242 5.11 | 22<br>Th | 0308 -4.52<br>0940 4.89<br>1523 -4.44<br>2154 5.03 | 7<br>Sa  | 0440 -4.18<br>1103 4.14<br>1649 -3.82<br>2328 3.92 |
| 8<br>Th  | 0443 -4.51<br>1105 4.52<br>1699 -4.12<br>2329 4.52 | 23<br>F  | 0348 -4.39<br>1017 4.58<br>1603 -4.25<br>2233 4.87 | 8<br>Su  | 0514 -3.71<br>1139 3.45<br>1728 -3.38              |
| 9<br>F   | 0531 -4.15<br>1151 3.95<br>1747 -3.78              | 24<br>Sa | 0428 -4.17<br>1057 4.13<br>1647 -4.02<br>2318 4.25 | 9<br>M   | 0609 3.17<br>0558 -3.23<br>1225 2.83<br>1816 -2.87 |
| 10<br>Sa | 0019 3.98<br>0622 -3.78<br>1240 3.45<br>1840 -3.41 | 25<br>Su | 0515 -3.93<br>1142 3.71<br>1739 -3.76              | 10<br>Tu | 0109 2.56<br>0700 -2.78<br>1339 2.45<br>1943 -2.48 |
| 11<br>Su | 0114 3.49<br>0719 -3.45<br>1339 3.13<br>1944 -3.12 | 26<br>M  | 0008 3.88<br>0812 -3.85<br>1241 3.39<br>1844 -3.46 | 11<br>W  | 0232 2.40<br>0845 -2.68<br>1510 2.65<br>2125 -2.60 |
| 12<br>M  | 0217 3.24<br>0823 -3.28<br>1448 3.09<br>2055 -3.10 | 27<br>Tu | 0117 3.59<br>0725 -3.39<br>1404 3.35<br>2010 -3.32 | 12<br>Th | 0355 2.83<br>0951 -3.22<br>1622 3.35<br>2217 -3.47 |
| 13<br>Tu | 0322 3.27<br>0925 -3.39<br>1530 3.37<br>2183 -3.38 | 28<br>W  | 0240 3.65<br>0834 -3.40<br>1522 3.77<br>2135 -3.62 | 13<br>F  | 0456 3.56<br>1038 -3.84<br>1715 4.14<br>2259 -4.02 |
| 14<br>W  | 0423 3.58<br>1014 -3.71<br>1646 3.84<br>2237 -3.77 | 29<br>Th | 0356 4.07<br>1008 -3.79<br>1632 4.46<br>2238 -4.13 | 14<br>Sa | 0544 4.24<br>1117 -4.28<br>1789 4.75<br>2340 -4.36 |
| 15<br>Th | 0514 3.95<br>1035 -4.08<br>1734 4.32<br>2316 -4.10 | 30<br>F  | 0505 4.66<br>1108 -4.28<br>1736 5.19<br>2337 -4.63 | 15<br>Su | 0625 4.72<br>1157 -4.53<br>1838 5.14               |
|          |                                                    | 31<br>Sa | 0608 5.27<br>1203 -4.71<br>1833 5.81               |          |                                                    |
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**WESTON-SUPER-MARE****GMT****Datum : Ordnance Datum (Newlyn)****Year : 2004**

| September |            |      |            | October |            |      |            |
|-----------|------------|------|------------|---------|------------|------|------------|
| Time      | m          | Time | m          | Time    | m          | Time | m          |
| 1         | 0146 -5.59 | 16   | 0118 -5.08 | 1       | 0146 -5.22 | 16   | 0130 -5.18 |
| W         | 0810 6.35  | Th   | 0743 6.00  | F       | 0813 6.19  | Sa   | 0752 6.26  |
|           | 1402 -5.42 |      | 1334 -5.14 |         | 1359 -5.05 |      | 1345 -5.21 |
|           | 2026 6.59  |      | 1957 6.27  |         | 2031 6.16  |      | 2008 6.35  |
| 2         | 0223 -5.42 | 17   | 0158 -5.11 | 2       | 0214 -4.98 | 17   | 0204 -5.03 |
| Th        | 0849 6.19  | F    | 0817 6.07  | Sa      | 0843 5.82  | Su   | 0829 6.06  |
|           | 1437 -5.17 |      | 1410 -5.12 |         | 1423 -4.75 |      | 1419 -4.90 |
|           | 2102 6.26  |      | 2032 6.22  |         | 2101 6.68  |      | 2047 5.83  |
| 3         | 0255 -5.09 | 18   | 0230 -4.99 | 3       | 0237 -4.81 | 18   | 0238 -4.71 |
| F         | 0916 6.77  | Sa   | 0852 5.85  | Su      | 0911 5.17  | M    | 0906 6.51  |
|           | 1506 -4.78 |      | 1444 -4.91 |         | 1445 -4.36 |      | 1451 -4.82 |
|           | 2137 5.63  |      | 2107 5.85  |         | 2129 4.71  |      | 2127 5.21  |
| 4         | 0322 -4.65 | 19   | 0301 -4.69 | 4       | 0258 -4.18 | 19   | 0307 -4.30 |
| Sa        | 0949 5.09  | Su   | 0929 5.34  | M       | 0938 4.38  | Tu   | 0947 4.74  |
|           | 1529 -4.33 |      | 1513 -4.66 |         | 1510 -3.82 |      | 1530 -4.17 |
|           | 2208 4.77  |      | 2143 5.20  |         | 2154 3.77  |      | 2212 4.31  |
| 5         | 0347 -4.17 | 20   | 0329 -4.31 | 5       | 0325 -3.70 | 20   | 0348 -3.82 |
| Su        | 1015 4.29  | M    | 1002 4.62  | Tu      | 0959 3.54  | W    | 1037 3.89  |
|           | 1554 -3.87 |      | 1547 -4.15 |         | 1538 -3.43 |      | 1622 -3.83 |
|           | 2236 3.85  |      | 2221 4.39  |         | 2220 2.87  |      | 2310 3.42  |
| 6         | 0413 -3.69 | 21   | 0405 -3.86 | 6       | 0357 -3.17 | 21   | 0448 -3.26 |
| M         | 1042 3.48  | Tu   | 1042 3.63  | W       | 1030 2.73  | Th   | 1146 3.18  |
|           | 1623 -3.39 |      | 1631 -3.67 |         | 1619 -2.87 |      | 1741 -3.10 |
|           | 2307 2.88  |      | 2310 3.52  |         | 2259 2.04  |      |            |
| 7         | 0447 -3.16 | 22   | 0457 -3.38 | 7       | 0445 -2.57 | 22   | 0533 2.86  |
| Tu        | 1120 2.70  | W    | 1143 3.08  | Th      | 1125 1.97  | F    | 0624 -2.79 |
|           | 1708 -2.82 |      | 1740 -3.10 |         | 1721 -2.27 |      | 1321 3.05  |
|           | 2357 2.13  |      |            |         |            |      | 1943 -3.03 |
| 8         | 0540 -2.86 | 23   | 0530 2.78  | 8       | 0535 1.42  | 23   | 0207 3.01  |
| W         | 1228 2.01  | Th   | 0821 -2.78 | F       | 0604 -2.01 | Sa   | 0825 -3.04 |
|           | 1815 -2.22 |      | 1328 2.73  |         | 1341 1.72  |      | 1452 3.89  |
|           |            |      | 1940 -2.77 |         | 2010 -1.98 |      | 2107 -3.89 |
| 9         | 0142 1.88  | 24   | 0214 2.78  | 9       | 0253 3.04  | 24   | 0333 3.65  |
| Th        | 0725 -2.06 | F    | 0834 -2.80 | Sa      | 0902 -2.32 | Su   | 0939 -3.83 |
|           | 1433 2.03  |      | 1504 3.32  |         | 1521 2.65  |      | 1604 4.72  |
|           | 2104 -2.29 |      | 2123 -3.41 |         | 2132 -2.82 |      | 2206 -4.43 |
| 10        | 0332 2.28  | 25   | 0347 3.89  | 10      | 0359 3.04  | 25   | 0436 4.85  |
| F         | 0932 -2.74 | Sa   | 0958 -3.64 | Su      | 0952 -3.30 | M    | 1035 -4.56 |
|           | 1559 2.97  |      | 1623 4.48  |         | 1618 3.82  |      | 1899 5.59  |
|           | 2159 -3.21 |      | 2228 -4.31 |         | 2215 -3.79 |      | 2257 -4.95 |
| 11        | 0434 3.31  | 26   | 0457 4.75  | 11      | 0445 4.14  | 26   | 0526 5.55  |
| Sa        | 1018 -3.61 | Su   | 1054 -4.52 | M       | 1033 -4.07 | Tu   | 1119 -5.00 |
|           | 1652 4.04  |      | 1722 5.58  |         | 1659 4.82  |      | 1744 6.04  |
|           | 2240 -3.98 |      | 2320 -5.03 |         | 2255 -4.39 |      | 2338 -5.16 |
| 12        | 0519 4.27  | 27   | 0549 5.65  | 12      | 0525 5.65  | 27   | 0605 5.88  |
| Su        | 1059 -4.28 | M    | 1142 -5.14 | Tu      | 1113 -4.69 | W    | 1158 -5.11 |
|           | 1734 4.88  |      | 1806 6.26  |         | 1739 5.54  |      | 1823 6.16  |
|           | 2321 -4.46 |      |            |         | 2336 -4.76 |      |            |
| 13        | 0600 4.97  | 28   | 0604 -5.43 | 13      | 0602 5.81  | 28   | 0614 -5.13 |
| M         | 1139 -4.64 | Tu   | 0832 6.12  | W       | 1153 -4.91 | Th   | 0640 5.98  |
|           | 1811 5.44  |      | 1223 -5.41 |         | 1617 6.02  |      | 1229 -6.04 |
|           |            |      | 1849 6.84  |         |            |      | 1856 6.14  |
| 14        | 0602 -4.74 | 29   | 0643 -5.51 | 14      | 0615 -5.00 | 29   | 0645 -5.02 |
| Tu        | 0835 5.44  | W    | 0708 6.30  | Th      | 0640 6.02  | F    | 0711 5.99  |
|           | 1218 -4.87 |      | 1300 -5.41 |         | 1231 -5.13 |      | 1259 -4.82 |
|           | 1847 5.62  |      | 1825 6.58  |         | 1854 6.82  |      | 1929 6.05  |
| 15        | 0640 -4.82 | 30   | 0118 -6.41 | 15      | 0653 -6.18 | 30   | 0113 -4.82 |
| W         | 0710 5.77  | Th   | 0742 6.32  | F       | 0718 6.25  | Sa   | 0742 6.82  |
|           | 1257 -6.03 |      | 1332 -6.27 |         | 1309 -5.24 |      | 1324 -4.81 |
|           | 1922 6.10  |      | 1858 6.47  |         | 1931 6.45  |      | 2001 5.80  |
|           |            |      |            |         |            |      | 0137 -4.79 |
|           |            |      |            |         |            |      | 0811 5.65  |
|           |            |      |            |         |            |      | 1347 -4.83 |
|           |            |      |            |         |            |      | 2032 6.29  |

# WESTON-SUPER-MARE

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| November |            |      |            | December |            |      |            |
|----------|------------|------|------------|----------|------------|------|------------|
| Time     | m          | Time | m          | Time     | m          | Time | m          |
| 1        | 0201 -4.64 | 16   | 0219 -4.72 | 1        | 0205 -4.18 | 16   | 0308 -4.57 |
|          | 0940 5.11  |      | 0856 5.67  |          | 0943 4.84  |      | 0943 5.80  |
|          | 1411 -4.33 |      | 1443 -4.68 |          | 1419 -3.98 |      | 1540 -4.62 |
| M        | 2059 4.67  | Tu   | 2121 5.28  | W        | 2112 4.00  | Th   | 2211 5.09  |
| 2        | 0225 -4.17 | 17   | 0300 -4.33 | 2        | 0234 -3.85 | 17   | 0400 -4.27 |
|          | 0908 4.41  |      | 0845 5.02  |          | 0921 4.08  |      | 1038 5.11  |
| Tu       | 1437 -3.94 | W    | 1530 -4.28 | Th       | 1455 -3.88 | F    | 1638 -4.32 |
|          | 2126 3.77  |      | 2214 4.51  |          | 2146 3.50  |      | 2304 4.55  |
| 3        | 0251 -3.74 | 18   | 0349 -3.88 | 3        | 0311 -3.54 | 18   | 0458 -3.97 |
|          | 0934 3.88  |      | 1041 4.32  |          | 0956 3.89  |      | 1132 4.81  |
| W        | 1608 -3.81 | Th   | 1831 -3.81 | F        | 1538 -3.40 | Sa   | 1741 -4.05 |
|          | 2155 3.02  |      | 2315 3.82  |          | 2228 3.05  |      |            |
| 4        | 0325 -3.28 | 19   | 0456 -3.45 | 4        | 0400 -3.23 | 19   | 0500 4.08  |
|          | 1008 2.89  |      | 1148 3.81  |          | 1048 3.17  |      | 0604 -3.71 |
| Th       | 1649 -3.05 | F    | 1752 -3.49 | Sa       | 1635 -3.11 | Su   | 1232 4.21  |
|          | 2238 2.34  |      |            |          | 2320 2.89  |      | 1646 -3.82 |
| 5        | 0413 -2.80 | 20   | 0525 3.42  | 5        | 0601 -2.95 | 20   | 0702 3.71  |
|          | 1058 2.38  |      | 0628 -3.20 |          | 1148 2.91  |      | 0711 -3.51 |
| F        | 1849 -2.58 | Sa   | 1305 3.88  | Su       | 1747 -2.91 | M    | 1338 3.97  |
|          | 2346 1.83  |      | 1924 -3.49 |          |            |      | 1949 -3.58 |
| 6        | 0524 -2.38 | 21   | 0142 3.44  | 6        | 0029 2.58  | 21   | 0208 3.58  |
|          | 1230 2.08  |      | 0757 -3.35 |          | 0621 -2.80 |      | 0817 -3.43 |
| Sa       | 1825 -2.28 | Su   | 1422 -3.98 | M        | 1304 2.95  | Tu   | 1443 3.95  |
|          |            |      | 2036 -3.82 |          | 1911 -2.91 |      | 2049 -3.64 |
| 7        | 0141 1.84  | 22   | 0258 3.88  | 7        | 0150 2.82  | 22   | 0314 3.71  |
|          | 0725 -2.28 |      | 0908 -3.77 |          | 0748 -2.93 |      | 0919 -3.50 |
| Su       | 1417 2.58  | M    | 1530 4.55  | Tu       | 1421 3.41  | W    | 1545 4.09  |
|          | 2034 -2.68 |      | 2134 -4.18 |          | 2032 -3.22 |      | 2144 -3.74 |
| 8        | 0301 2.78  | 23   | 0402 4.47  | 8        | 0301 3.48  | 23   | 0413 4.00  |
|          | 0905 -2.95 |      | 1002 -4.17 |          | 0904 -3.37 |      | 1012 -3.70 |
| M        | 1524 3.63  | Tu   | 1628 5.05  | W        | 1525 4.14  | Th   | 1639 4.31  |
|          | 2134 -3.45 |      | 2225 -4.45 |          | 2135 -3.71 |      | 2231 -3.63 |
| 9        | 0358 3.81  | 24   | 0451 4.83  | 9        | 0359 4.30  | 24   | 0502 4.35  |
|          | 0955 -3.71 |      | 1048 -4.43 |          | 1001 -3.82 |      | 1054 -3.83 |
| Tu       | 1616 4.83  | W    | 1713 5.32  | Th       | 1822 4.88  | F    | 1726 4.54  |
|          | 2219 -4.09 |      | 2308 -4.57 |          | 2229 -4.21 |      | 2311 -4.14 |
| 10       | 0443 4.75  | 25   | 0534 5.20  | 10       | 0451 5.08  | 25   | 0545 4.88  |
|          | 1040 -4.31 |      | 1125 -4.53 |          | 1052 -4.43 |      | 1130 -4.13 |
| W        | 1700 5.34  | Th   | 1754 5.42  | F        | 1713 5.60  | Sa   | 1808 4.74  |
|          | 2304 -4.53 |      | 2341 -4.80 |          | 2316 -4.62 |      | 2346 -4.31 |
| 11       | 0528 5.48  | 26   | 0610 5.35  | 11       | 0540 5.68  | 26   | 0624 4.94  |
|          | 1123 -4.74 |      | 1158 -4.54 |          | 1138 -4.82 |      | 1205 -4.27 |
| Th       | 1744 5.91  | F    | 1830 5.44  | Sa       | 1802 5.91  | Su   | 1648 4.88  |
|          | 2346 -4.88 | O    |            |          |            |      |            |
| 12       | 0608 5.99  | 27   | 0613 -4.81 | 12       | 0602 -4.90 | 27   | 0621 -4.42 |
|          | 1204 -5.04 |      | 0843 5.48  |          | 0828 5.08  |      | 0700 5.08  |
| F        | 1828 6.28  | Sa   | 1229 -4.54 | Su       | 1223 -5.08 | M    | 1238 -4.33 |
|          |            |      | 1904 5.42  |          | 1852 6.11  |      | 1925 4.89  |
| 13       | 0626 -5.08 | 28   | 0642 -4.83 | 13       | 0646 -5.02 | 28   | 0653 -4.44 |
|          | 0649 6.27  |      | 0718 5.48  |          | 0718 5.28  |      | 0734 5.09  |
| Sa       | 1244 -5.20 | Su   | 1258 -4.53 | M        | 1309 -5.14 | Tu   | 1311 -4.32 |
|          | 1908 6.39  |      | 1838 5.27  |          | 1941 6.12  |      | 1956 4.82  |
| 14       | 0108 -5.14 | 29   | 0110 -4.58 | 14       | 0131 -4.99 | 29   | 0128 -4.38 |
|          | 0731 6.33  |      | 0748 5.33  |          | 0804 6.23  |      | 0807 5.02  |
| Su       | 1323 -5.20 | M    | 1324 -4.44 | Tu       | 1356 -5.08 | W    | 1343 -4.25 |
|          | 1951 6.27  |      | 2010 4.98  |          | 2030 5.93  |      | 2031 4.71  |
| 15       | 0142 -5.01 | 30   | 0137 -4.42 | 15       | 0217 -4.83 | 30   | 0158 -4.27 |
|          | 0812 8.13  |      | 0818 4.99  |          | 0853 6.00  |      | 0839 4.90  |
| M        | 1402 -5.01 | Tu   | 1351 -4.24 | W        | 1446 -4.89 | Th   | 1417 -4.18 |
|          | 2035 5.89  |      | 2041 4.51  |          | 2120 5.59  |      | 2102 4.55  |
|          |            |      |            |          |            | 31   | 0232 -4.18 |
|          |            |      |            |          |            |      | 0914 4.72  |
|          |            |      |            |          |            |      | 1454 -4.05 |
|          |            |      |            |          |            |      | 2138 4.32  |

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Datum : Ordnance Datum (Newlyn)

Year : 2004

| January |      |       |  | February |      |       |  |
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|         | Time | m     |  |          | Time | m     |  |
| 1       | 0121 | 3.35  |  | 1        | 0221 | 2.75  |  |
| Th      | 0728 | -2.41 |  | Bu       | 0848 | -1.61 |  |
|         | 1358 | 3.53  |  |          | 1510 | 2.88  |  |
|         | 2012 | -2.64 |  |          | 2138 | -2.27 |  |
| 2       | 0227 | 3.28  |  | 2        | 0343 | 3.14  |  |
| F       | 0845 | -2.34 |  | M        | 1015 | -2.50 |  |
|         | 1505 | 3.66  |  |          | 1622 | 3.41  |  |
|         | 2122 | -2.77 |  |          | 2241 | -3.10 |  |
| 3       | 0333 | 3.51  |  | 3        | 0448 | 3.67  |  |
| Sa      | 0955 | -2.69 |  |          | 1110 | -3.38 |  |
|         | 1605 | 3.85  |  | Tu       | 1718 | 4.11  |  |
|         | 2222 | -3.20 |  |          | 2334 | -3.80 |  |
| 4       | 0429 | 3.98  |  | 4        | 0537 | 4.82  |  |
| Su      | 1051 | -3.23 |  |          | 1200 | -4.07 |  |
|         | 1857 | 4.26  |  | W        | 1804 | 4.73  |  |
|         | 2314 | -3.75 |  |          |      |       |  |
| 5       | 0517 | 4.50  |  | 5        | 0623 | -4.45 |  |
| M       | 1140 | -3.80 |  | Th       | 0819 | 5.19  |  |
|         | 1742 | 4.85  |  |          | 1250 | -4.49 |  |
|         |      |       |  |          | 1845 | 5.20  |  |
| 6       | 0601 | -4.23 |  | 6        | 0110 | -4.76 |  |
| Tu      | 0858 | 4.98  |  | F        | 0658 | 5.80  |  |
|         | 1224 | -4.22 |  | O        | 1338 | -4.74 |  |
|         | 1822 | 4.98  |  |          | 1923 | 5.85  |  |
| 7       | 0045 | -4.65 |  | 7        | 0155 | -4.87 |  |
| W       | 0838 | 5.27  |  | Sa       | 0735 | 5.92  |  |
| O       | 1307 | -4.48 |  |          | 1419 | -4.85 |  |
|         | 1900 | 5.18  |  |          | 1959 | 5.98  |  |
| 8       | 0127 | -4.89 |  | 8        | 0237 | -5.15 |  |
| Th      | 0713 | 5.47  |  |          | 0812 | 6.21  |  |
|         | 1348 | -4.95 |  | Su       | 1500 | -5.14 |  |
|         | 1937 | 6.29  |  |          | 2036 | 6.10  |  |
| 9       | 0208 | -4.71 |  | 9        | 0315 | -6.28 |  |
| F       | 0749 | 5.61  |  | M        | 0849 | 6.37  |  |
|         | 1427 | -4.98 |  |          | 1537 | -5.22 |  |
|         | 2013 | 5.40  |  |          | 2112 | 6.14  |  |
| 10      | 0244 | -4.88 |  | 10       | 0359 | -5.28 |  |
| Sa      | 0825 | 5.70  |  |          | 0827 | 5.31  |  |
|         | 1505 | -4.56 |  | Tu       | 1810 | -5.10 |  |
|         | 2050 | 5.46  |  |          | 2149 | 6.89  |  |
| 11      | 0321 | -4.82 |  | 11       | 0421 | -5.02 |  |
| Su      | 0903 | 5.71  |  |          | 1004 | 5.95  |  |
|         | 1541 | -4.51 |  | W        | 1638 | -4.78 |  |
|         | 2128 | 5.39  |  |          | 2225 | 5.39  |  |
| 12      | 0358 | -4.49 |  | 12       | 0480 | -4.83 |  |
| M       | 0942 | 5.57  |  | Th       | 1043 | 5.40  |  |
|         | 1818 | -4.38 |  |          | 1708 | -4.32 |  |
|         | 2207 | 5.15  |  |          | 2304 | 4.78  |  |
| 13      | 0430 | -4.29 |  | 13       | 0524 | -4.14 |  |
| Tu      | 1023 | 5.28  |  |          | 1128 | 4.74  |  |
|         | 1852 | -4.15 |  | F        | 1745 | -3.78 |  |
|         | 2248 | 4.77  |  | C        | 2349 | 4.10  |  |
| 14      | 0506 | -4.02 |  | 14       | 0805 | -3.68 |  |
| W       | 1108 | 4.90  |  |          | 1220 | 4.06  |  |
|         | 1731 | -3.87 |  | Sa       | 1833 | -3.15 |  |
|         | 2333 | 4.33  |  |          |      |       |  |
| 15      | 0549 | -3.89 |  | 15       | 0056 | 3.53  |  |
| Th      | 1158 | 4.50  |  |          | 0707 | -2.80 |  |
| C       | 1817 | -3.53 |  | Su       | 1340 | 3.58  |  |
|         |      |       |  |          | 1930 | -2.58 |  |
| 16      | 0029 | 3.94  |  |          |      |       |  |
| F       | 0841 | -3.33 |  |          |      |       |  |
|         | 1300 | 4.18  |  |          |      |       |  |
|         | 1916 | -3.19 |  |          |      |       |  |
| 17      | 0141 | 3.74  |  |          |      |       |  |
| Sa      | 0749 | -3.04 |  |          |      |       |  |
|         | 1417 | 4.09  |  |          |      |       |  |
|         | 2034 | -3.01 |  |          |      |       |  |
| 18      | 0300 | 3.84  |  |          |      |       |  |
| Su      | 0921 | -3.11 |  |          |      |       |  |
|         | 1533 | 4.35  |  |          |      |       |  |
|         | 2204 | -3.29 |  |          |      |       |  |
| 19      | 0411 | 4.49  |  |          |      |       |  |
| M       | 1045 | -3.65 |  |          |      |       |  |
|         | 1842 | 4.83  |  |          |      |       |  |
|         | 2323 | -3.88 |  |          |      |       |  |
| 20      | 0515 | 5.17  |  |          |      |       |  |
| Tu      | 1187 | -4.33 |  |          |      |       |  |
|         | 1748 | 5.38  |  |          |      |       |  |
| 21      | 0630 | -4.50 |  |          |      |       |  |
| W       | 0813 | 5.81  |  |          |      |       |  |
|         | 1300 | -4.83 |  |          |      |       |  |
|         | 1843 | 5.87  |  |          |      |       |  |
| 22      | 0128 | -5.01 |  |          |      |       |  |
| Th      | 0708 | 6.29  |  |          |      |       |  |
|         | 1358 | -5.35 |  |          |      |       |  |
|         | 1933 | 6.21  |  |          |      |       |  |
| 23      | 0219 | -5.31 |  |          |      |       |  |
| F       | 0753 | 6.57  |  |          |      |       |  |
|         | 1443 | -5.55 |  |          |      |       |  |
|         | 2019 | 6.35  |  |          |      |       |  |
| 24      | 0303 | -5.37 |  |          |      |       |  |
| Sa      | 0839 | 6.82  |  |          |      |       |  |
|         | 1528 | -5.50 |  |          |      |       |  |
|         | 2101 | 6.27  |  |          |      |       |  |
| 25      | 0341 | -5.20 |  |          |      |       |  |
| Su      | 0920 | 6.41  |  |          |      |       |  |
|         | 1602 | -5.23 |  |          |      |       |  |
|         | 2140 | 5.94  |  |          |      |       |  |
| 26      | 0414 | -4.82 |  |          |      |       |  |
| M       | 1000 | 6.08  |  |          |      |       |  |
|         | 1633 | -4.77 |  |          |      |       |  |
|         | 2218 | 6.41  |  |          |      |       |  |
| 27      | 0442 | -4.33 |  |          |      |       |  |
| Tu      | 1038 | 5.33  |  |          |      |       |  |
|         | 1700 | -4.23 |  |          |      |       |  |
|         | 2252 | 4.75  |  |          |      |       |  |
| 28      | 0508 | -3.79 |  |          |      |       |  |
| W       | 1114 | 4.81  |  |          |      |       |  |
|         | 1728 | -3.87 |  |          |      |       |  |
|         | 2327 | 4.08  |  |          |      |       |  |
| 29      | 0534 | -3.28 |  |          |      |       |  |
| Th      | 1152 | 3.80  |  |          |      |       |  |
|         | 1758 | -3.10 |  |          |      |       |  |
| 30      | 0608 | 3.46  |  |          |      |       |  |
| F       | 0808 | -2.65 |  |          |      |       |  |
|         | 1241 | 3.28  |  |          |      |       |  |
|         | 1840 | -2.49 |  |          |      |       |  |
| 31      | 0102 | 2.84  |  |          |      |       |  |
| Sa      | 0700 | -2.06 |  |          |      |       |  |
|         | 1349 | 2.83  |  |          |      |       |  |
|         | 1953 | -1.88 |  |          |      |       |  |

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Datum : Ordnance Datum (Newlyn)

Year : 2004

| March |            |  | April |            |  |
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| Time  | m          |  | Time  | m          |  |
| 1     | 0101 2.37  |  | 16    | 0214 3.12  |  |
| M     | 0658 -1.61 |  | Tu    | 0843 -2.52 |  |
|       | 1410 2.15  |  |       | 1502 3.22  |  |
|       | 2028 -1.48 |  |       | 2133 -2.86 |  |
| 2     | 0256 2.48  |  | 17    | 0349 3.76  |  |
| Tu    | 0936 -1.69 |  | W     | 1022 -3.42 |  |
|       | 1549 2.75  |  |       | 1831 4.08  |  |
|       | 2211 -2.49 |  |       | 2302 -3.69 |  |
| 3     | 0417 3.39  |  | 18    | 0501 4.85  |  |
| W     | 1042 -3.07 |  | Th    | 1137 -4.62 |  |
|       | 1653 3.78  |  |       | 1734 5.13  |  |
|       | 2308 -3.61 |  |       |            |  |
| 4     | 0512 4.41  |  | 19    | 0609 -4.78 |  |
| Th    | 1137 -4.04 |  | F     | 0658 5.79  |  |
|       | 1741 4.69  |  |       | 1238 -5.35 |  |
|       |            |  |       | 1822 5.86  |  |
| 5     | 0601 -4.43 |  | 20    | 0101 -5.47 |  |
| F     | 0656 5.25  |  | Sa    | 0641 6.33  |  |
|       | 1229 -4.87 |  | ●     | 1325 -5.75 |  |
|       | 1821 5.41  |  |       | 1902 6.27  |  |
| 6     | 0851 -4.98 |  | 21    | 0145 -5.74 |  |
| Sa    | 0836 5.85  |  | Su    | 0719 6.57  |  |
| O     | 1319 -5.08 |  |       | 1405 -5.82 |  |
|       | 1900 5.93  |  |       | 1938 6.43  |  |
| 7     | 0138 -5.34 |  | 22    | 0221 -5.74 |  |
| Su    | 0714 6.29  |  | M     | 0753 6.83  |  |
|       | 1403 -5.41 |  |       | 1438 -5.72 |  |
|       | 1938 6.32  |  |       | 2009 6.47  |  |
| 8     | 0221 -5.85 |  | 23    | 0251 -5.81 |  |
| M     | 0751 6.84  |  | Tu    | 0825 6.55  |  |
|       | 1445 -5.67 |  |       | 1505 -5.55 |  |
|       | 2014 6.59  |  |       | 2038 6.35  |  |
| 9     | 0300 -5.85 |  | 24    | 0315 -5.40 |  |
| Tu    | 0828 6.82  |  | W     | 0858 6.24  |  |
|       | 1522 -5.75 |  |       | 1528 -5.29 |  |
|       | 2050 6.91  |  |       | 2107 5.98  |  |
| 10    | 0334 -5.80 |  | 25    | 0336 -5.09 |  |
| W     | 0905 6.72  |  | Th    | 0925 5.67  |  |
|       | 1552 -5.53 |  |       | 1547 -4.90 |  |
|       | 2125 6.32  |  |       | 2133 5.38  |  |
| 11    | 0403 -5.48 |  | 26    | 0354 -4.86 |  |
| Th    | 0841 6.27  |  | F     | 0950 4.90  |  |
|       | 1817 -5.08 |  |       | 1807 -4.39 |  |
|       | 2201 5.71  |  |       | 2157 4.85  |  |
| 12    | 0429 -4.98 |  | 27    | 0415 -4.13 |  |
| F     | 1019 6.55  |  | Sa    | 1015 4.08  |  |
|       | 1844 -4.32 |  |       | 1830 -3.77 |  |
|       | 2239 -4.93 |  |       | 2222 3.68  |  |
| 13    | 0450 -4.38 |  | 28    | 0443 -3.49 |  |
| Sa    | 1101 4.67  |  | Su    | 1043 3.24  |  |
| C     | 1717 -3.86 |  |       | 1658 -3.08 |  |
|       | 2323 4.08  |  |       | 2255 3.13  |  |
| 14    | 0530 -3.63 |  | 29    | 0517 -2.75 |  |
| Su    | 1155 3.77  |  | M     | 1127 2.48  |  |
|       | 1804 -3.05 |  |       | 1738 -2.27 |  |
|       |            |  |       | 2355 2.42  |  |
| 15    | 0632 3.33  |  | 30    | 0609 -1.85 |  |
| M     | 0842 -2.78 |  | Tu    | 1300 1.93  |  |
|       | 1522 3.12  |  |       | 1848 -1.84 |  |
|       | 1925 -2.28 |  |       |            |  |
|       |            |  | 31    | 0157 2.23  |  |
|       |            |  | W     | 0632 -1.63 |  |
|       |            |  |       | 1509 2.41  |  |
|       |            |  |       | 2131 -2.07 |  |
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## CLEVEDON

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Datum : Ordnance Datum (Newlyn)

Year : 2004

| May  |      |       | June |      |       |
|------|------|-------|------|------|-------|
| Time | m    |       | Time | m    |       |
| 1    | 0351 | 4.23  | 1    | 0457 | 5.56  |
| 1    | 1018 | -3.81 | 1    | 1138 | -4.73 |
| 1    | 1625 | 4.54  | 1    | 1728 | 5.79  |
| 1    | 2248 | -4.12 |      |      |       |
| 2    | 0444 | 5.20  | 2    | 0507 | -5.00 |
| 2    | 1120 | -4.57 | 2    | 0546 | -5.00 |
| 2    | 1714 | 5.44  | 2    | 1237 | -5.14 |
| 2    | 2348 | -4.84 | 2    | 1814 | 6.23  |
| 3    | 0532 | 5.95  | 3    | 0102 | -5.41 |
| 3    | 1218 | -5.12 | 3    | 0637 | 6.36  |
| 3    | 1758 | 6.10  | 3    | 1329 | -5.41 |
|      |      |       | 3    | 1902 | 6.47  |
| 4    | 0042 | -5.39 | 4    | 0151 | -5.65 |
| 4    | 0616 | 6.48  | 4    | 0725 | 6.43  |
| 4    | 1309 | -6.33 | 4    | 1415 | -5.48 |
| 4    | 1841 | 6.53  | 4    | 1949 | 6.51  |
| 5    | 0131 | -5.78 | 5    | 0237 | -5.66 |
| 5    | 0659 | 6.74  | 5    | 0814 | 6.29  |
| 5    | 1354 | -5.78 | 5    | 1457 | -5.32 |
| 5    | 1923 | 6.74  | 5    | 2036 | 6.32  |
| 6    | 0213 | -5.98 | 6    | 0318 | -5.43 |
| 6    | 0741 | 6.80  | 6    | 0903 | 6.94  |
| 6    | 1434 | -5.79 | 6    | 1537 | -4.98 |
| 6    | 2003 | 6.71  | 6    | 2125 | 5.92  |
| 7    | 0251 | -6.92 | 7    | 0402 | -5.03 |
| 7    | 0824 | 6.89  | 7    | 0953 | 5.42  |
| 7    | 1509 | -5.54 | 7    | 1617 | -4.48 |
| 7    | 2046 | 6.40  | 7    | 2216 | 5.38  |
| 8    | 0327 | -5.59 | 8    | 0446 | -4.55 |
| 8    | 0908 | 6.07  | 8    | 1048 | 4.83  |
| 8    | 1541 | -5.06 | 8    | 1702 | -4.00 |
| 8    | 2130 | 5.79  | 8    | 2311 | 4.82  |
| 9    | 0401 | -6.04 | 9    | 0534 | -4.10 |
| 9    | 0956 | 5.30  | 9    | 1141 | 4.30  |
| 9    | 1614 | -4.45 | 9    | 1732 | -3.57 |
| 9    | 2219 | 5.01  |      |      |       |
| 10   | 0439 | -4.38 | 10   | 0010 | 4.36  |
| 10   | 1049 | 4.48  | 10   | 0630 | -3.77 |
| 10   | 1656 | -3.76 | 10   | 1240 | 3.92  |
| 10   | 2317 | 4.28  | 10   | 1852 | -3.29 |
| 11   | 0530 | -3.70 | 11   | 0114 | 4.13  |
| 11   | 1153 | 3.78  | 11   | 0733 | -3.81 |
| 11   | 1753 | -3.10 | 11   | 1345 | 3.77  |
|      |      |       | 11   | 2000 | -3.22 |
| 12   | 0028 | 3.78  | 12   | 0221 | 4.10  |
| 12   | 0643 | -3.23 | 12   | 0837 | -3.82 |
| 12   | 1307 | 3.44  | 12   | 1452 | 3.86  |
| 12   | 1918 | -2.80 | 12   | 2109 | -3.34 |
| 13   | 0147 | 3.75  | 13   | 0324 | 4.28  |
| 13   | 0811 | -3.35 | 13   | 0939 | -3.74 |
| 13   | 1427 | 3.82  | 13   | 1553 | 4.13  |
| 13   | 2047 | -3.18 | 13   | 2212 | -3.58 |
| 14   | 0304 | 4.19  | 14   | 0420 | 4.47  |
| 14   | 0928 | -3.90 | 14   | 1038 | -3.80 |
| 14   | 1540 | 4.19  | 14   | 1644 | 4.45  |
| 14   | 2201 | -3.84 | 14   | 2308 | -3.82 |
| 15   | 0408 | 4.80  | 15   | 0507 | 4.88  |
| 15   | 1031 | -4.41 | 15   | 1129 | -4.11 |
| 15   | 1637 | 4.80  | 15   | 1727 | 4.75  |
| 15   | 2303 | -4.37 | 15   | 2354 | -4.08 |
| 16   | 0500 | 5.28  | 16   | 0549 | 4.85  |
| 16   | 1128 | -4.70 | 16   | 1214 | -4.32 |
| 16   | 1723 | 5.20  | 16   | 1807 | 5.01  |
| 16   | 2354 | -4.65 |      |      |       |
| 17   | 0544 | 5.48  | 17   | 0035 | -4.29 |
| 17   | 1120 | -4.80 | 17   | 0629 | 4.88  |
| 17   | 1802 | 5.42  | 17   | 1253 | -4.53 |
|      |      |       | 17   | 1842 | 5.21  |
| 18   | 0038 | -4.73 | 18   | 0113 | -4.47 |
| 18   | 0620 | 5.55  | 18   | 0709 | 5.08  |
| 18   | 1252 | -4.83 | 18   | 1331 | -4.68 |
| 18   | 1836 | 5.58  | 18   | 1917 | 5.31  |
| 19   | 0111 | -4.78 | 19   | 0149 | -4.56 |
| 19   | 0653 | 5.59  | 19   | 0741 | 5.05  |
| 19   | 1327 | -4.90 | 19   | 1408 | -4.67 |
| 19   | 1907 | 5.68  | 19   | 1950 | 5.30  |
| 20   | 0142 | -4.87 | 20   | 0224 | -4.54 |
| 20   | 0728 | 5.58  | 20   | 0814 | 4.97  |
| 20   | 1357 | -5.00 | 20   | 1439 | -4.57 |
| 20   | 1938 | 5.71  | 20   | 2023 | 5.21  |
| 21   | 0211 | -4.93 | 21   | 0257 | -4.45 |
| 21   | 0758 | 5.45  | 21   | 0849 | 4.85  |
| 21   | 1425 | -4.98 | 21   | 1510 | -4.41 |
| 21   | 2008 | 5.58  | 21   | 2100 | 5.08  |
| 22   | 0239 | -4.85 | 22   | 0330 | -4.30 |
| 22   | 0828 | 5.15  | 22   | 0925 | 4.68  |
| 22   | 1451 | -4.78 | 22   | 1543 | -4.20 |
| 22   | 2038 | 5.23  | 22   | 2137 | 4.83  |
| 23   | 0305 | -4.81 | 23   | 0404 | -4.12 |
| 23   | 0858 | 4.71  | 23   | 1004 | 4.41  |
| 23   | 1518 | -4.44 | 23   | 1619 | -3.97 |
| 23   | 2109 | 4.78  | 23   | 2219 | 4.56  |
| 24   | 0333 | -4.28 | 24   | 0442 | -3.91 |
| 24   | 0932 | 4.21  | 24   | 1046 | 4.11  |
| 24   | 1548 | -4.03 | 24   | 1658 | -3.72 |
| 24   | 2144 | 4.29  | 24   | 2305 | 4.28  |
| 25   | 0404 | -3.88 | 25   | 0525 | -3.88 |
| 25   | 1008 | 3.72  | 25   | 1135 | 3.84  |
| 25   | 1620 | -3.59 | 25   | 1748 | -3.50 |
| 25   | 2224 | 3.82  | 25   | 2358 | 4.07  |
| 26   | 0443 | -3.45 | 26   | 0618 | -3.81 |
| 26   | 1058 | 3.30  | 26   | 1232 | 3.88  |
| 26   | 1702 | -3.17 | 26   | 1840 | -3.32 |
| 26   | 2317 | 3.48  |      |      |       |
| 27   | 0533 | -3.08 | 27   | 0101 | 4.01  |
| 27   | 1157 | 3.04  | 27   | 0717 | -3.40 |
| 27   | 1759 | -2.83 | 27   | 1342 | 3.72  |
|      |      |       | 27   | 1948 | -3.27 |
| 28   | 0028 | 3.33  | 28   | 0214 | 4.17  |
| 28   | 0642 | -2.91 | 28   | 0830 | -3.45 |
| 28   | 1315 | 3.10  | 28   | 1434 | 4.06  |
| 28   | 1917 | -2.78 | 28   | 2108 | -3.48 |
| 29   | 0149 | 3.80  | 29   | 0323 | 4.68  |
| 29   | 0805 | -3.13 | 29   | 0948 | -3.74 |
| 29   | 1434 | 3.81  | 29   | 1600 | 4.87  |
| 29   | 2043 | -3.21 | 29   | 2227 | -3.95 |
| 30   | 0302 | 4.24  | 30   | 0427 | 5.08  |
| 30   | 0922 | -3.69 | 30   | 1102 | -4.19 |
| 30   | 1536 | 4.38  | 30   | 1659 | 5.28  |
| 30   | 2158 | -3.88 | 30   | 2337 | -4.49 |
| 31   | 0403 | 5.00  |      |      |       |
| 31   | 1031 | -4.25 |      |      |       |
| 31   | 1635 | 5.18  |      |      |       |
| 31   | 2304 | -4.48 |      |      |       |

## CLEVEDON

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| July |      |       | August |      |       |
|------|------|-------|--------|------|-------|
|      | Time | m     |        | Time | m     |
| 1    | 0526 | 6.61  | 1      | 0134 | -5.31 |
| Th   | 1211 | -4.63 | Bu     | 0711 | 6.05  |
|      | 1755 | 5.79  |        | 1359 | -5.32 |
|      |      |       |        | 1933 | 6.53  |
| 2    | 0041 | -4.96 | 2      | 0220 | -5.73 |
| F    | 0623 | 5.66  |        | 0759 | 6.34  |
| O    | 1310 | -4.99 | M      | 1447 | -5.59 |
|      | 1849 | 6.17  |        | 2019 | 6.73  |
| 3    | 0139 | -5.31 | 3      | 0311 | -6.58 |
| Sa   | 0717 | 6.06  | Tu     | 0844 | 6.42  |
|      | 1404 | -5.22 |        | 1529 | -5.80 |
|      | 1941 | 6.39  |        | 2102 | 6.66  |
| 4    | 0231 | -5.51 | 4      | 0350 | -6.74 |
| Su   | 0806 | 6.17  |        | 0925 | 6.25  |
|      | 1454 | -5.28 | W      | 1605 | -5.33 |
|      | 2029 | 6.43  |        | 2144 | 6.37  |
| 5    | 0319 | -5.53 | 5      | 0424 | -6.34 |
| M    | 0857 | 6.09  |        | 1002 | 6.81  |
|      | 1536 | -5.17 | Th     | 1634 | -4.84 |
|      | 2119 | 6.26  |        | 2222 | 5.78  |
| 6    | 0403 | -5.35 | 6      | 0452 | -4.78 |
| Tu   | 0944 | 5.62  |        | 1039 | 5.17  |
|      | 1619 | -4.69 | F      | 1700 | -4.24 |
|      | 2205 | 5.92  |        | 2300 | 5.03  |
| 7    | 0443 | -5.01 | 7      | 0518 | -4.11 |
| W    | 1030 | 5.37  |        | 1113 | 4.44  |
|      | 1656 | -4.49 | Sa     | 1726 | -3.62 |
|      | 2252 | 5.41  |        | 2336 | 4.22  |
| 8    | 0520 | -4.56 | 8      | 0546 | -3.48 |
| Th   | 1115 | 4.82  |        | 1149 | 3.75  |
|      | 1733 | -4.03 | Bu     | 1755 | -2.99 |
|      | 2339 | 4.62  |        |      |       |
| 9    | 0559 | -4.07 | 9      | 0619 | 3.47  |
| F    | 1201 | 4.25  |        | 0820 | -2.81 |
|      | 1813 | -3.54 |        | 1235 | 3.13  |
|      |      |       |        | 1837 | -2.32 |
| 10   | 0629 | 4.28  | 10     | 0119 | 2.86  |
| Sa   | 0842 | -3.57 |        | 0718 | -2.17 |
|      | 1250 | 3.75  | Tu     | 1349 | 2.76  |
|      | 1858 | -3.05 |        | 1958 | -1.79 |
| 11   | 0124 | 3.79  | 11     | 0242 | 2.70  |
| Su   | 0734 | -3.12 |        | 0904 | -2.06 |
|      | 1349 | 3.43  | W      | 1520 | 2.95  |
|      | 1959 | -2.67 |        | 2151 | -2.23 |
| 12   | 0227 | 3.64  | 12     | 0405 | 3.13  |
| M    | 0840 | -2.68 |        | 1022 | -2.80 |
|      | 1456 | 3.39  | Th     | 1632 | 3.65  |
|      | 2116 | -2.64 |        | 2254 | -3.14 |
| 13   | 0332 | 3.67  | 13     | 0506 | 3.66  |
| Tu   | 0950 | -3.03 |        | 1118 | -3.64 |
|      | 1600 | 3.67  | F      | 1725 | 4.44  |
|      | 2224 | -3.02 |        | 2346 | -3.69 |
| 14   | 0433 | 3.68  | 14     | 0554 | 4.64  |
| W    | 1050 | -3.47 |        | 1208 | -4.24 |
|      | 1656 | 4.14  | Sa     | 1809 | 6.05  |
|      | 2319 | -3.55 |        |      |       |
| 15   | 0524 | 4.25  | 15     | 0635 | -4.36 |
| Th   | 1141 | -3.95 |        | 0835 | 6.02  |
|      | 1744 | 4.62  |        | 1258 | -4.68 |
|      |      |       |        | 1848 | 5.44  |
| 16   | 0607 | -4.00 | 16     | 0122 | -4.61 |
| F    | 0811 | 4.60  |        | 0711 | 5.35  |
|      | 1226 | -4.30 | M      | 1339 | -4.77 |
|      | 1825 | 4.98  |        | 1922 | 6.72  |
| 17   | 0652 | -4.26 | 17     | 0204 | -4.78 |
| Sa   | 0851 | 4.85  |        | 0745 | 6.62  |
|      | 1313 | -4.49 | Tu     | 1421 | -4.93 |
|      | 1903 | 5.21  |        | 1956 | 6.97  |
| 18   | 0136 | -4.42 | 18     | 0244 | -4.86 |
| Su   | 0728 | 5.02  |        | 0819 | 5.85  |
|      | 1354 | -4.57 | W      | 1459 | -5.07 |
|      | 1939 | 5.36  |        | 2031 | 6.16  |
| 19   | 0218 | -4.50 | 19     | 0321 | -5.08 |
| M    | 0803 | 5.16  |        | 0854 | 5.85  |
|      | 1433 | -4.80 | Th     | 1534 | -5.08 |
|      | 2014 | 5.49  |        | 2106 | 6.15  |
| 20   | 0254 | -4.57 | 20     | 0352 | -5.00 |
| Tu   | 0839 | 5.29  |        | 0928 | 5.78  |
|      | 1509 | -4.64 | F      | 1603 | -4.88 |
|      | 2050 | 5.69  |        | 2141 | 5.67  |
| 21   | 0331 | -4.63 | 21     | 0421 | -4.69 |
| W    | 0913 | 6.33  |        | 1002 | 6.35  |
|      | 1543 | -4.61 | Sa     | 1630 | -4.49 |
|      | 2127 | 5.56  |        | 2218 | 6.36  |
| 22   | 0404 | -4.58 | 22     | 0448 | -4.25 |
| Th   | 0930 | 5.19  |        | 1037 | 4.73  |
|      | 1616 | -4.47 | Su     | 1658 | -4.03 |
|      | 2204 | 5.33  |        | 2255 | 4.72  |
| 23   | 0436 | -4.39 | 23     | 0516 | -3.76 |
| F    | 1027 | 4.86  |        | 1116 | 4.13  |
|      | 1649 | -4.21 | M      | 1734 | -3.50 |
|      | 2243 | 4.97  |        | 2342 | 4.06  |
| 24   | 0509 | -4.10 | 24     | 0557 | -3.22 |
| Sa   | 1107 | 4.43  |        | 1210 | 3.54  |
|      | 1724 | -3.89 | Tu     | 1825 | -2.90 |
|      | 2328 | 4.65  |        |      |       |
| 25   | 0547 | -3.77 | 25     | 0650 | 3.46  |
| Su   | 1152 | 4.01  |        | 0859 | -2.58 |
|      | 1806 | -3.54 | W      | 1343 | 3.21  |
|      |      |       |        | 1956 | -2.41 |
| 26   | 0618 | 4.16  | 26     | 0230 | 3.32  |
| M    | 0834 | -3.40 |        | 0856 | -2.42 |
|      | 1251 | 3.89  | Th     | 1518 | 3.63  |
|      | 1901 | -3.15 |        | 2153 | -2.96 |
| 27   | 0127 | 3.89  | 27     | 0358 | 3.67  |
| Tu   | 0740 | -3.04 |        | 1032 | -3.24 |
|      | 1414 | 3.65  | F      | 1637 | 4.56  |
|      | 2026 | -2.94 |        | 2315 | -3.97 |
| 28   | 0250 | 3.85  | 28     | 0515 | 4.81  |
| W    | 0915 | -3.05 |        | 1181 | -4.24 |
|      | 1532 | 4.07  | Sa     | 1743 | 6.58  |
|      | 2203 | -3.34 |        |      |       |
| 29   | 0408 | 4.37  | 29     | 0628 | -4.93 |
| Th   | 1040 | -3.50 |        | 0812 | 6.70  |
|      | 1642 | 4.78  | Su     | 1254 | -5.11 |
|      | 2320 | -4.04 |        | 1835 | 6.35  |
| 30   | 0516 | 4.98  | 30     | 0123 | -5.64 |
| F    | 1156 | -4.22 |        | 0701 | 6.28  |
|      | 1746 | 5.49  | M      | 1346 | -5.67 |
|      |      |       | O      | 1820 | 6.79  |
| 31   | 0601 | -4.72 | 31     | 0211 | -5.00 |
| Sa   | 0816 | 5.57  |        | 0743 | 6.56  |
| O    | 1302 | -4.63 | Tu     | 1430 | -5.68 |
|      | 1843 | 6.11  |        | 2000 | 6.95  |

**Add 1 Hour for BST from 01:00 on 28/03/2004 to 01:00 on 31/10/2004**

## CLEVEDON

GMT

**Datum : Ordnance Datum (Newlyn)**

Year : 2004

| September |      |       |  | October |      |       |  |
|-----------|------|-------|--|---------|------|-------|--|
|           | Time | m     |  |         | Time | m     |  |
| 1         | 0251 | -5.03 |  | 1       | 0253 | -5.52 |  |
| W         | 0820 | 8.85  |  | F       | 0823 | 8.49  |  |
|           | 1508 | -5.80 |  |         | 1503 | -5.29 |  |
|           | 2038 | 6.89  |  |         | 2041 | 8.48  |  |
| 2         | 0326 | -5.80 |  | 2       | 0318 | -5.18 |  |
| Th        | 0856 | 8.49  |  | Sa      | 0853 | 8.12  |  |
|           | 1537 | -5.48 |  |         | 1525 | -4.88 |  |
|           | 2112 | 8.56  |  |         | 2111 | 5.86  |  |
| 3         | 0352 | -5.35 |  | 3       | 0337 | -4.70 |  |
| F         | 0928 | 6.07  |  | Su      | 0921 | 5.47  |  |
|           | 1602 | -4.93 |  |         | 1644 | -4.36 |  |
|           | 2147 | 5.93  |  |         | 2138 | 5.01  |  |
| 4         | 0415 | -4.75 |  | 4       | 0358 | -4.48 |  |
| Sa        | 0959 | 5.39  |  | M       | 0946 | 4.66  |  |
|           | 1821 | -4.32 |  |         | 1605 | -3.76 |  |
|           | 2218 | 5.07  |  |         | 2204 | 4.07  |  |
| 5         | 0435 | -4.10 |  | 5       | 0417 | -3.48 |  |
| Su        | 1025 | 4.59  |  | Tu      | 1009 | -3.64 |  |
|           | 1842 | -3.89 |  |         | 1828 | -3.08 |  |
|           | 2248 | 4.15  |  |         | 2230 | 3.17  |  |
| 6         | 0456 | -3.44 |  | 6       | 0444 | -2.73 |  |
| M         | 1052 | 3.78  |  | W       | 1040 | 3.03  |  |
|           | 1705 | -3.03 |  |         | 1702 | -2.33 |  |
|           | 2317 | 3.28  |  |         | 2309 | 2.34  |  |
| 7         | 0524 | -2.72 |  | 7       | 0523 | -1.92 |  |
| Tu        | 1130 | 3.00  |  | Th      | 1136 | 2.27  |  |
|           | 1739 | -2.28 |  |         | 1751 | -1.51 |  |
| 8         | 0607 | 2.43  |  | 8       | 0645 | 1.72  |  |
| W         | 0807 | -1.80 |  | F       | 0828 | -1.14 |  |
|           | 1238 | 2.31  |  |         | 1351 | 2.02  |  |
|           | 1836 | -1.43 |  |         | 2028 | -1.08 |  |
| 9         | 0152 | 1.98  |  | 9       | 0303 | 2.20  |  |
| Th        | 0740 | -1.22 |  | Sa      | 0924 | -1.58 |  |
|           | 1443 | 2.33  |  |         | 1531 | 2.95  |  |
|           | 2126 | -1.33 |  |         | 2159 | -2.38 |  |
| 10        | 0342 | 2.58  |  | 10      | 0408 | 3.34  |  |
| F         | 0959 | -2.15 |  | Su      | 1023 | -2.91 |  |
|           | 1809 | 3.27  |  |         | 1826 | 4.12  |  |
|           | 2232 | -2.78 |  |         | 2251 | -3.57 |  |
| 11        | 0444 | 3.81  |  | 11      | 0455 | -4.44 |  |
| Sa        | 1055 | -3.34 |  | M       | 1114 | -3.98 |  |
|           | 1702 | 4.34  |  |         | 1709 | 5.12  |  |
|           | 2323 | -3.83 |  |         | 2341 | -4.38 |  |
| 12        | 0529 | 4.57  |  | 12      | 0535 | 5.31  |  |
| Su        | 1148 | -4.21 |  | Tu      | 1203 | -4.87 |  |
|           | 1744 | 5.18  |  |         | 1749 | 5.84  |  |
| 13        | 0613 | -4.50 |  | 13      | 0630 | -4.90 |  |
| M         | 0810 | 5.27  |  | W       | 0812 | 5.91  |  |
|           | 1234 | -4.74 |  |         | 1251 | -5.11 |  |
|           | 1821 | 5.74  |  |         | 1827 | 6.32  |  |
| 14        | 0100 | -4.87 |  | 14      | 0116 | -5.23 |  |
| Tu        | 0645 | 5.74  |  | Th      | 0650 | 8.32  |  |
|           | 1319 | -5.08 |  |         | 1334 | -5.40 |  |
|           | 1857 | 8.12  |  |         | 1804 | 8.82  |  |
| 15        | 0143 | -5.12 |  | 15      | 0157 | -5.43 |  |
| W         | 0720 | 6.07  |  | F       | 0728 | 8.55  |  |
|           | 1401 | -5.27 |  |         | 1414 | -5.56 |  |
|           | 1932 | 6.40  |  |         | 1941 | 8.76  |  |
| 16        | 0224 | -5.30 |  | 16      | 0235 | -5.52 |  |
| Th        | 0753 | 8.30  |  | Sa      | 0823 | 8.49  |  |
|           | 1439 | -5.42 |  |         | 1503 | -5.29 |  |
|           | 2007 | 8.57  |  |         | 2041 | 8.48  |  |
| 17        | 0300 | -5.38 |  | 2       | 0318 | -5.18 |  |
| F         | 0827 | 6.37  |  | Sa      | 0853 | 8.12  |  |
|           | 1513 | -5.39 |  |         | 1525 | -4.88 |  |
|           | 2042 | 8.52  |  |         | 2111 | 5.86  |  |
| 18        | 0331 | -5.21 |  | 3       | 0337 | -4.70 |  |
| Sa        | 0902 | 8.15  |  | Su      | 0921 | 5.47  |  |
|           | 1643 | -4.10 |  |         | 1644 | -4.36 |  |
|           | 2117 | 8.15  |  |         | 2138 | 5.01  |  |
| 19        | 0358 | -4.80 |  | 4       | 0358 | -4.48 |  |
| Su        | 0936 | 5.84  |  | M       | 0946 | 4.66  |  |
|           | 1808 | -4.53 |  |         | 1605 | -3.76 |  |
|           | 2153 | 5.50  |  |         | 2204 | 4.07  |  |
| 20        | 0421 | -4.28 |  | 5       | 0417 | -3.48 |  |
| M         | 1012 | 4.92  |  | Tu      | 1009 | -3.64 |  |
|           | 1835 | -4.07 |  |         | 1828 | -3.08 |  |
|           | 2231 | 4.69  |  |         | 2230 | 3.17  |  |
| 21        | 0450 | -3.70 |  | 6       | 0444 | -2.73 |  |
| Tu        | 1052 | 4.13  |  | W       | 1040 | 3.03  |  |
|           | 1711 | -3.42 |  |         | 1702 | -2.33 |  |
|           | 2320 | 3.82  |  |         | 2309 | 2.34  |  |
| 22        | 0532 | -2.98 |  | 7       | 0523 | -1.92 |  |
| W         | 1153 | 3.36  |  | Th      | 1136 | 2.27  |  |
|           | 1807 | -2.84 |  |         | 1751 | -1.51 |  |
| 23        | 0640 | 3.08  |  | 8       | 0645 | 1.72  |  |
| Th        | 0841 | -2.20 |  | F       | 0828 | -1.14 |  |
|           | 1335 | 3.03  |  |         | 1351 | 2.02  |  |
|           | 1955 | -2.16 |  |         | 2028 | -1.08 |  |
| 24        | 0224 | 3.06  |  | 9       | 0303 | 2.20  |  |
| F         | 0852 | -2.23 |  | Sa      | 0924 | -1.58 |  |
|           | 1514 | 3.62  |  |         | 1531 | 2.95  |  |
|           | 2148 | -3.08 |  |         | 2159 | -2.38 |  |
| 25        | 0357 | 3.89  |  | 10      | 0408 | 3.34  |  |
| Sa        | 1028 | -3.37 |  | Su      | 1023 | -2.91 |  |
|           | 1633 | 4.78  |  |         | 1826 | 4.12  |  |
|           | 2307 | -4.28 |  |         | 2251 | -3.57 |  |
| 26        | 0507 | 5.08  |  | 11      | 0455 | -4.44 |  |
| Su        | 1140 | -4.58 |  | M       | 1114 | -3.98 |  |
|           | 1732 | 5.88  |  |         | 1709 | 5.12  |  |
| 27        | 0611 | -5.27 |  | 12      | 0535 | 5.31  |  |
| M         | 0599 | 5.85  |  | Tu      | 1203 | -4.87 |  |
|           | 1238 | -5.42 |  |         | 1749 | 5.84  |  |
|           | 1818 | 8.56  |  |         |      |       |  |
| 28        | 0103 | -5.81 |  | 13      | 0630 | -4.90 |  |
| Tu        | 0842 | 8.42  |  | W       | 0812 | 5.91  |  |
|           | 1325 | -5.79 |  |         | 1251 | -5.11 |  |
|           | 1859 | 8.84  |  |         | 1827 | 6.32  |  |
| 29        | 0146 | -5.92 |  | 14      | 0116 | -5.23 |  |
| W         | 0718 | 8.80  |  | Th      | 0650 | 8.32  |  |
|           | 1404 | -5.79 |  |         | 1334 | -5.40 |  |
|           | 1935 | 6.68  |  |         | 1804 | 8.82  |  |
| 30        | 0223 | -5.78 |  | 15      | 0157 | -5.43 |  |
| Th        | 0752 | 8.82  |  | F       | 0728 | 8.55  |  |
|           | 1437 | -5.58 |  |         | 1414 | -5.56 |  |
|           | 2008 | 6.77  |  |         | 1941 | 8.76  |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
|           |      |       |  |         |      |       |  |
| </        |      |       |  |         |      |       |  |

# CLEVEDON

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| November |      |       |    | December |       |    |      |       |    |      |       |
|----------|------|-------|----|----------|-------|----|------|-------|----|------|-------|
|          | Time | m     |    | Time     | m     |    | Time | m     |    | Time | m     |
| 1        | 0305 | -4.80 | 16 | 0322     | -4.85 | 1  | 0308 | -4.08 | 16 | 0402 | -4.64 |
|          | 0850 | 5.41  |    | 0908     | 5.97  |    | 0858 | 4.84  |    | 0953 | 5.90  |
| M        | 1514 | -4.31 | Tu | 1542     | -4.79 | W  | 1522 | -3.83 | Th | 1630 | -4.70 |
|          | 2109 | 4.87  |    | 2131     | 5.98  |    | 2122 | 4.30  |    | 2221 | 5.38  |
| 2        | 0327 | -4.10 | 17 | 0357     | -4.31 | 2  | 0335 | -3.88 | 17 | 0448 | -4.23 |
|          | 0916 | 4.71  |    | 0955     | 5.32  |    | 0931 | 4.38  |    | 1046 | 5.41  |
| Tu       | 1537 | -3.79 | W  | 1622     | -4.21 | Th | 1552 | -3.44 | F  | 1718 | -4.30 |
|          | 2138 | 4.07  |    | 2224     | 4.81  |    | 2158 | 3.80  |    | 2314 | 4.85  |
| 3        | 0349 | -3.51 | 18 | 0437     | -3.70 | 3  | 0408 | -3.24 | 18 | 0533 | -3.83 |
|          | 0944 | 3.88  |    | 1051     | 4.82  |    | 1008 | 3.89  |    | 1142 | 4.91  |
| W        | 1604 | -3.20 | Th | 1711     | -3.80 | F  | 1628 | -3.04 | Sa | 1808 | -3.83 |
|          | 2205 | 3.32  |    | 2325     | 4.12  |    | 2238 | 3.33  |    |      |       |
| 4        | 0417 | -2.88 | 19 | 0531     | -3.11 | 4  | 0448 | -2.81 | 19 | 0510 | 4.38  |
|          | 1016 | 3.29  |    | 1158     | 4.11  |    | 1055 | 3.47  |    | 0628 | -3.47 |
| Th       | 1637 | -2.57 | F  | 1817     | -3.18 | Sa | 1714 | -2.88 | Su | 1242 | 4.81  |
|          | 2245 | 2.84  |    |          |       |    | 2330 | 2.88  |    | 1904 | -3.62 |
| 5        | 0456 | -2.23 | 20 | 0535     | 3.72  | 5  | 0535 | -2.44 | 20 | 0112 | 4.01  |
|          | 1108 | 2.68  |    | 0646     | -2.77 |    | 1158 | 3.21  |    | 0727 | -3.20 |
| F        | 1726 | -1.94 | Sa | 1315     | 3.98  | Su | 1813 | -2.38 | M  | 1348 | 4.37  |
|          | 2358 | 2.13  |    | 1939     | -3.17 |    |      |       |    | 2004 | -3.42 |
| 6        | 0554 | -1.63 | 21 | 0152     | 3.74  | 6  | 0039 | 2.88  | 21 | 0218 | 3.88  |
|          | 1240 | 2.38  |    | 0813     | -2.88 |    | 0841 | -2.23 |    | 0834 | -3.08 |
| Sa       | 1848 | -1.53 | Su | 1432     | 4.28  | M  | 1314 | 3.25  | Tu | 1453 | 4.25  |
|          |      |       |    | 2054     | -3.81 |    | 1927 | -2.38 |    | 2109 | -3.38 |
| 7        | 0151 | 2.24  | 22 | 0308     | 4.18  | 7  | 0200 | 3.12  | 22 | 0324 | 4.01  |
|          | 0740 | -1.48 |    | 0928     | -3.54 |    | 0803 | -2.40 |    | 0943 | -3.18 |
| Su       | 1427 | 2.88  | M  | 1540     | 4.85  | Tu | 1431 | 3.71  | W  | 1555 | 4.38  |
|          | 2052 | -2.07 |    | 2202     | -4.11 |    | 2049 | -2.80 |    | 2213 | -3.81 |
| 8        | 0311 | 3.08  | 23 | 0412     | 4.77  | 8  | 0311 | 3.78  | 23 | 0423 | 4.30  |
|          | 0927 | -2.43 |    | 1035     | -4.10 |    | 0928 | -3.00 |    | 1047 | -3.46 |
| M        | 1534 | 3.83  | Tu | 1536     | 5.35  | W  | 1535 | 4.44  | Th | 1649 | 4.81  |
|          | 2201 | -3.12 |    | 2303     | -4.47 |    | 2203 | -3.47 |    | 2311 | -3.77 |
| 9        | 0408 | 4.11  | 24 | 0501     | 5.23  | 9  | 0408 | 4.80  | 24 | 0512 | 4.85  |
|          | 1027 | -3.47 |    | 1132     | -4.45 |    | 1034 | -3.78 |    | 1140 | -3.77 |
| Tu       | 1625 | 4.83  | W  | 1723     | 5.82  | Th | 1632 | 5.18  | F  | 1738 | 4.84  |
|          | 2257 | -3.99 |    | 2354     | -4.84 |    | 2308 | -4.14 |    |      |       |
| 10       | 0453 | 5.05  | 25 | 0544     | 5.50  | 10 | 0501 | 5.38  | 25 | 0600 | -4.05 |
|          | 1123 | -4.29 |    | 1218     | -4.58 |    | 1137 | -4.45 |    | 0655 | 4.88  |
| W        | 1710 | 5.84  | Th | 1804     | 6.72  | F  | 1723 | 5.80  | Sa | 1223 | -4.04 |
|          | 2381 | -4.82 |    |          |       |    |      |       |    | 1818 | 5.04  |
| 11       | 0538 | 5.78  | 26 | 0637     | -4.88 | 11 | 0607 | -4.71 | 26 | 0643 | -4.28 |
|          | 1216 | -4.88 |    | 0820     | 5.85  |    | 0550 | 8.88  |    | 0634 | 5.24  |
| Th       | 1754 | 6.21  | F  | 1258     | -4.80 | Sa | 1233 | -4.88 | Su | 1304 | -4.23 |
|          |      |       |    | 1840     | 5.74  |    | 1812 | 6.21  |    | 1838 | 5.18  |
| 12       | 0642 | -5.07 | 27 | 0113     | -4.70 | 12 | 0100 | -5.09 | 27 | 0122 | -4.44 |
|          | 0818 | 6.28  |    | 0853     | 5.78  |    | 0839 | 6.38  |    | 0710 | 6.38  |
| F        | 1303 | -5.29 | Sa | 1331     | -4.81 | Su | 1325 | -5.31 | M  | 1340 | -4.32 |
|          | 1838 | 6.58  |    | 1914     | 5.72  |    | 1902 | 8.41  |    | 1935 | 5.19  |
| 13       | 0128 | -6.34 | 28 | 0145     | -4.72 | 13 | 0149 | -6.28 | 28 | 0157 | -4.47 |
|          | 0659 | 6.57  |    | 0728     | 8.78  |    | 0728 | 8.88  |    | 0744 | 6.38  |
| Sa       | 1347 | -5.51 | Su | 1400     | -4.58 | M  | 1414 | -5.42 | Tu | 1418 | -4.30 |
|          | 1918 | 6.69  |    | 1948     | 6.57  |    | 1951 | 8.42  |    | 2008 | 5.12  |
| 14       | 0209 | -5.41 | 29 | 0215     | -4.88 | 14 | 0238 | -5.22 | 29 | 0231 | -4.38 |
|          | 0741 | 6.83  |    | 0758     | 8.83  |    | 0814 | 8.83  |    | 0817 | 8.32  |
| Su       | 1428 | -5.50 | M  | 1429     | -4.48 | Tu | 1500 | -5.33 | W  | 1448 | -4.21 |
|          | 2001 | 6.57  |    | 2020     | 3.28  |    | 2040 | 6.25  |    | 2041 | 6.01  |
| 15       | 0247 | -6.24 | 30 | 0242     | -4.44 | 15 | 0319 | -4.88 | 30 | 0302 | -4.23 |
|          | 0822 | 8.43  |    | 0828     | 8.29  |    | 0803 | 8.30  |    | 0849 | 8.20  |
| M        | 1508 | -5.25 | Tu | 1435     | -4.19 | W  | 1545 | -5.07 | Th | 1519 | -4.09 |
|          | 2045 | 6.19  |    | 2051     | 4.81  |    | 2130 | 5.89  |    | 2112 | 4.85  |
|          |      |       |    |          |       |    |      |       | 31 | 0333 | -4.08 |
|          |      |       |    |          |       |    |      |       |    | 0924 | 5.02  |
|          |      |       |    |          |       |    |      |       |    | 1551 | -3.94 |
|          |      |       |    |          |       |    |      |       |    | 2148 | 4.82  |

# AVONMOUTH

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| January |      |       |  | February |      |       |  |
|---------|------|-------|--|----------|------|-------|--|
|         | Time | m     |  |          | Time | m     |  |
| 1       | 0131 | 3.88  |  | 1        | 0231 | 2.89  |  |
| Th      | 0747 | -2.71 |  | Su       | 0856 | -2.24 |  |
|         | 1407 | 3.88  |  |          | 1515 | 3.08  |  |
|         | 2030 | -2.80 |  |          | 2148 | -2.57 |  |
| 2       | 0235 | 3.66  |  | 2        | 0348 | 3.28  |  |
| F       | 0903 | -2.68 |  | M        | 1027 | -2.75 |  |
|         | 1512 | 3.66  |  |          | 1632 | 3.62  |  |
|         | 2139 | -3.03 |  |          | 2257 | -3.21 |  |
| 3       | 0340 | 3.75  |  | 3        | 0500 | 3.92  |  |
| Sa      | 1010 | -2.68 |  | Tu       | 1127 | -3.47 |  |
|         | 1615 | 4.10  |  |          | 1735 | 4.20  |  |
|         | 2238 | -3.38 |  |          | 2354 | -3.88 |  |
| 4       | 0441 | 4.17  |  | 4        | 0555 | 4.67  |  |
| Su      | 1107 | -3.44 |  |          | 1224 | -4.07 |  |
|         | 1711 | 4.48  |  |          | 1824 | 4.87  |  |
|         | 2333 | -3.82 |  |          |      |       |  |
| 5       | 0533 | 4.68  |  | 5        | 0649 | -4.38 |  |
| M       | 1159 | -3.90 |  | Th       | 0840 | 5.28  |  |
|         | 1800 | 4.87  |  |          | 1317 | -4.47 |  |
|         |      |       |  |          | 1908 | 5.41  |  |
| 6       | 0624 | -4.24 |  | 6        | 0138 | -4.70 |  |
| Tu      | 0816 | 5.13  |  |          | 0719 | 5.75  |  |
|         | 1248 | -4.28 |  | F        | 1408 | -4.73 |  |
|         | 1843 | 5.20  |  | O        | 1944 | 5.83  |  |
| 7       | 0111 | -4.52 |  | 7        | 0229 | -4.82 |  |
| W       | 0857 | 5.48  |  |          | 0757 | 6.15  |  |
| O       | 1334 | -4.47 |  | Sa       | 1450 | -4.94 |  |
|         | 1922 | 5.42  |  |          | 2021 | 6.19  |  |
| 8       | 0154 | -4.66 |  | 8        | 0308 | -5.11 |  |
| Th      | 0734 | 5.57  |  |          | 0833 | 6.49  |  |
|         | 1417 | -4.58 |  | Su       | 1530 | -5.11 |  |
|         | 1959 | 5.58  |  |          | 2057 | 6.45  |  |
| 9       | 0238 | -4.68 |  | 9        | 0348 | -5.23 |  |
| F       | 0810 | 5.53  |  |          | 0910 | 6.70  |  |
|         | 1457 | -4.57 |  | M        | 1607 | -5.18 |  |
|         | 2034 | 6.71  |  |          | 2133 | 6.51  |  |
| 10      | 0315 | -4.86 |  | 10       | 0421 | -5.20 |  |
| Sa      | 0845 | 5.98  |  |          | 0947 | 6.65  |  |
|         | 1538 | -4.86 |  | Tu       | 1640 | -5.05 |  |
|         | 2110 | 5.79  |  |          | 2208 | 6.25  |  |
| 11      | 0351 | -4.60 |  | 11       | 0451 | -4.98 |  |
|         | 0923 | 6.00  |  |          | 1024 | 6.30  |  |
| Su      | 1612 | -4.50 |  |          | 1709 | -4.74 |  |
|         | 2148 | 5.74  |  |          | 2245 | 5.72  |  |
| 12      | 0425 | -4.48 |  | 12       | 0518 | -4.69 |  |
| M       | 1001 | 5.89  |  |          | 1102 | 5.72  |  |
|         | 1646 | -4.37 |  | Th       | 1736 | -4.33 |  |
|         | 2226 | 6.81  |  |          | 2323 | 6.08  |  |
| 13      | 0438 | -4.29 |  | 13       | 0560 | -4.58 |  |
| Tu      | 1042 | 5.81  |  |          | 1143 | 5.02  |  |
|         | 1718 | -4.16 |  | F        | 1809 | -3.87 |  |
|         | 2308 | 5.11  |  | C        |      |       |  |
| 14      | 0533 | -4.04 |  | 14       | 0608 | -4.38 |  |
| W       | 1123 | 5.22  |  |          | 0630 | -3.83 |  |
|         | 1756 | -3.91 |  | Sa       | 1234 | 4.30  |  |
|         | 2351 | 4.85  |  |          | 1854 | -3.31 |  |
| 15      | 0613 | -3.75 |  | 15       | 0111 | 3.75  |  |
| Th      | 1213 | 4.79  |  | Su       | 0728 | -3.05 |  |
| C       | 1839 | -3.82 |  |          | 1351 | 3.74  |  |
|         |      |       |  |          | 2009 | -2.77 |  |
| 16      | 0043 | 4.22  |  | 16       | 0242 | 3.58  |  |
| F       | 0703 | -3.42 |  |          | 0914 | -2.83 |  |
|         | 1312 | 4.43  |  | M        | 1523 | 3.73  |  |
|         | 1934 | -3.31 |  |          | 2200 | -2.89 |  |
| 17      | 0153 | 3.68  |  | 17       | 0410 | 4.08  |  |
| Sa      | 0810 | -3.15 |  |          | 1050 | -3.40 |  |
|         | 1427 | 4.28  |  | Tu       | 1631 | 4.33  |  |
|         | 2052 | -3.13 |  |          | 2335 | -3.61 |  |
| 18      | 0312 | 4.14  |  | 18       | 0527 | 4.89  |  |
| Su      | 0940 | -3.21 |  |          | 1218 | -4.26 |  |
|         | 1545 | 4.49  |  | W        | 1802 | 5.25  |  |
|         | 2221 | -3.35 |  |          |      |       |  |
| 19      | 0427 | 4.88  |  | 19       | 0631 | -4.82 |  |
| M       | 1104 | -3.88 |  |          | 0828 | 5.83  |  |
|         | 1659 | 4.97  |  | Th       | 1321 | -5.10 |  |
|         | 2345 | -3.85 |  |          | 1857 | 6.06  |  |
| 20      | 0534 | 5.39  |  | 20       | 0148 | -5.25 |  |
| Tu      | 1225 | -4.30 |  |          | 0718 | 6.81  |  |
|         | 1808 | 5.58  |  | F        | 1414 | -6.87 |  |
|         |      |       |  |          | 1942 | 6.80  |  |
| 21      | 0100 | -4.48 |  | 21       | 0235 | -5.88 |  |
| W       | 0634 | 6.08  |  |          | 0800 | 7.00  |  |
|         | 1330 | -4.93 |  | Sa       | 1458 | -6.81 |  |
|         | 1903 | 6.18  |  |          | 2023 | 6.85  |  |
| 22      | 0158 | -4.02 |  | 22       | 0315 | -6.75 |  |
| Th      | 0727 | 6.81  |  |          | 0840 | 7.12  |  |
|         | 1424 | -5.38 |  | Su       | 1538 | -6.87 |  |
|         | 1954 | 6.54  |  |          | 2100 | 6.85  |  |
| 23      | 0248 | -5.33 |  | 23       | 0350 | -6.80 |  |
| F       | 0814 | 6.82  |  |          | 0916 | 6.99  |  |
|         | 1512 | -5.60 |  | M        | 1607 | -6.81 |  |
|         | 2039 | 6.71  |  |          | 2133 | 6.80  |  |
| 24      | 0331 | -5.39 |  | 24       | 0417 | -6.28 |  |
| Sa      | 0857 | 8.97  |  |          | 0950 | 6.80  |  |
|         | 1554 | -5.55 |  | Tu       | 1632 | -6.20 |  |
|         | 2121 | 6.81  |  |          | 2204 | 6.11  |  |
| 25      | 0409 | -5.21 |  | 25       | 0439 | -6.85 |  |
| Su      | 0839 | 6.75  |  |          | 1021 | 5.97  |  |
|         | 1629 | -5.27 |  | W        | 1653 | -4.78 |  |
|         | 2200 | 6.25  |  |          | 2232 | 6.48  |  |
| 26      | 0441 | -4.84 |  | 26       | 0456 | -4.42 |  |
| M       | 1016 | 6.28  |  |          | 1050 | 5.20  |  |
|         | 1700 | -4.83 |  | Th       | 1713 | -4.28 |  |
|         | 2236 | 5.80  |  |          | 2257 | 4.74  |  |
| 27      | 0509 | -4.39 |  | 27       | 0519 | -3.99 |  |
| Tu      | 1055 | 5.88  |  |          | 1118 | 4.38  |  |
|         | 1727 | -4.35 |  | F        | 1736 | -3.79 |  |
|         | 2311 | 5.04  |  |          | 2328 | 3.98  |  |
| 28      | 0533 | -3.95 |  | 28       | 0648 | -3.46 |  |
| W       | 1131 | 4.99  |  |          | 1151 | 3.58  |  |
|         | 1753 | -3.36 |  | Sa       | 1607 | -3.16 |  |
|         | 2346 | 4.38  |  |          |      |       |  |
| 29      | 0600 | -3.52 |  | 29       | 0605 | 3.24  |  |
| Th      | 1209 | 4.28  |  |          | 0823 | -2.80 |  |
|         | 1822 | -3.41 |  | Su       | 1242 | 2.77  |  |
|         |      |       |  |          | 1851 | -2.47 |  |
| 30      | 0634 | 3.75  |  | 30       | 0111 | 3.75  |  |
| F       | 0833 | -3.08 |  |          | 0728 | -3.05 |  |
|         | 1257 | 3.80  |  | Su       | 1351 | 3.74  |  |
|         | 1802 | -2.80 |  |          | 2009 | -2.77 |  |
| 31      | 0116 | 3.22  |  |          |      |       |  |
| Sa      | 0721 | -2.53 |  |          |      |       |  |
|         | 1401 | 3.14  |  |          |      |       |  |
|         | 2006 | -2.44 |  |          |      |       |  |

## AVONMOUTH

**GMT**

Datum : Ordnance Datum (Newlyn)

Year : 2004

| March    |                                                    |          |                                                    | April    |                                                     |          |                                                    |
|----------|----------------------------------------------------|----------|----------------------------------------------------|----------|-----------------------------------------------------|----------|----------------------------------------------------|
| Time     | m                                                  | Time     | m                                                  | Time     | m                                                   | Time     | m                                                  |
| 1<br>M   | 0112 2.90<br>0720 -2.11<br>1415 2.36<br>2015 -1.93 | 16<br>Tu | 0227 3.35<br>0902 -2.72<br>1515 3.39<br>2151 -2.75 | 1<br>Th  | 0347 3.18<br>1021 -2.82<br>1630 3.63<br>2251 -3.25  | 16<br>F  | 0458 5.29<br>1138 -4.08<br>1730 5.45               |
| 2<br>Tu  | 0300 2.58<br>0945 2.12<br>1555 2.90<br>2224 -2.59  | 17<br>W  | 0403 3.97<br>1042 -3.50<br>1647 4.26<br>2327 -3.74 | 2<br>F   | 0451 4.35<br>1124 -3.81<br>1724 4.82<br>2354 -4.16  | 17<br>Sa | 0510 -4.80<br>0551 6.05<br>1238 -3.24<br>1616 6.08 |
| 3<br>W   | 0428 3.38<br>1059 -3.09<br>1708 3.80<br>2327 -3.55 | 18<br>Th | 0519 5.08<br>1205 -4.53<br>1752 5.39               | 3<br>Sa  | 0542 5.42<br>1227 -4.53<br>1810 5.79                | 18<br>Su | 0101 -5.28<br>0635 6.45<br>1323 -3.38<br>1858 6.36 |
| 4<br>Th  | 0529 4.43<br>1159 -3.94<br>1800 4.81               | 19<br>F  | 0637 -4.78<br>0815 6.08<br>1305 -5.39<br>1842 6.18 | 4<br>Su  | 0653 -4.82<br>0826 6.24<br>1323 -5.00<br>1852 6.48  | 19<br>M  | 0143 -5.37<br>0712 6.80<br>1402 -4.54<br>1930 6.51 |
| 5<br>F   | 0626 -4.30<br>0815 5.34<br>1257 -4.55<br>1842 5.62 | 20<br>Sa | 0130 -5.48<br>0700 6.97<br>1354 -5.89<br>1824 6.63 | 5<br>M   | 0145 -5.32<br>0707 6.60<br>1411 -5.46<br>1931 6.84  | 20<br>Tu | 0218 -5.33<br>0747 6.63<br>1435 -5.36<br>2001 6.55 |
| 6<br>Sa  | 0121 -4.83<br>0657 6.03<br>1348 -4.99<br>1921 6.22 | 21<br>Su | 0214 -5.74<br>0740 6.85<br>1434 -5.88<br>2030 6.83 | 6<br>Tu  | 0230 -5.68<br>0747 7.18<br>1453 -5.71<br>2059 7.18  | 21<br>W  | 0248 -5.27<br>0818 6.56<br>1502 -5.32<br>2030 6.47 |
| 7<br>Su  | 0209 -5.23<br>0738 6.56<br>1434 -5.33<br>1958 6.08 | 22<br>M  | 0251 -5.74<br>0815 7.04<br>1509 -5.79<br>2032 6.95 | 7<br>W   | 0310 -5.66<br>0826 7.32<br>1530 -5.74<br>2047 7.17  | 22<br>Th | 0313 -5.18<br>0848 6.30<br>1528 -5.18<br>2057 6.16 |
| 8<br>M   | 0253 -5.54<br>0812 6.88<br>1515 -5.58<br>2035 6.80 | 23<br>Tu | 0321 -5.56<br>0848 6.94<br>1536 -5.59<br>2103 6.68 | 8<br>Th  | 0345 -5.80<br>0904 7.15<br>1602 -5.50<br>2124 6.82  | 23<br>F  | 0335 -5.00<br>0915 5.79<br>1547 -4.91<br>2123 5.84 |
| 9<br>Tu  | 0331 -5.72<br>0849 7.18<br>1552 -5.16<br>2111 6.90 | 24<br>W  | 0348 -5.36<br>0918 6.61<br>1600 -5.31<br>2130 6.28 | 9<br>F   | 0416 -5.47<br>0943 6.82<br>1629 -5.09<br>2203 6.18  | 24<br>Sa | 0357 -4.89<br>0942 5.11<br>1609 -4.51<br>2148 5.00 |
| 10<br>W  | 0408 -5.67<br>0929 7.08<br>1624 -5.44<br>2140 6.68 | 25<br>Th | 0408 -5.05<br>0947 6.92<br>1619 -4.84<br>2155 5.68 | 10<br>Sa | 0444 -4.97<br>1024 -5.70<br>1636 -4.50<br>2245 5.27 | 25<br>Su | 0418 -4.28<br>1008 4.37<br>1632 -4.02<br>2215 4.33 |
| 11<br>Th | 0435 -5.36<br>1003 6.82<br>1649 -5.02<br>2222 6.04 | 26<br>F  | 0425 -4.66<br>1012 5.24<br>1636 -4.30<br>2210 4.63 | 11<br>Su | 0515 -4.38<br>1110 4.78<br>1730 -3.85<br>2336 4.35  | 26<br>M  | 0448 -3.78<br>1038 3.87<br>1700 -3.49<br>2249 3.69 |
| 12<br>F  | 0501 -4.89<br>1036 5.80<br>1714 -4.51<br>2250 5.22 | 27<br>Sa | 0445 -4.23<br>1037 4.39<br>1700 -3.68<br>2243 4.18 | 12<br>M  | 0558 -3.66<br>1208 3.88<br>1816 -3.11               | 27<br>Tu | 0520 -3.22<br>1120 3.05<br>1739 -2.93<br>2311 3.11 |
| 13<br>Sa | 0529 -4.34<br>1120 4.86<br>1745 -3.92<br>2342 4.38 | 28<br>Su | 0511 -3.68<br>1104 3.58<br>1727 -3.37<br>2315 3.42 | 13<br>Tu | 0648 3.88<br>0703 -2.89<br>1330 3.34<br>2242 -2.54  | 28<br>W  | 0608 -2.68<br>1229 2.60<br>1638 -2.40              |
| 14<br>Su | 0608 -3.68<br>1213 4.03<br>1829 -3.22              | 29<br>M  | 0545 -3.02<br>1145 2.78<br>1808 -2.06              | 14<br>W  | 0917 3.58<br>0854 -3.00<br>1504 3.57<br>2136 -2.98  | 29<br>Th | 0108 2.84<br>0727 -2.36<br>1415 2.77<br>2019 -2.32 |
| 15<br>M  | 0650 3.57<br>0708 -2.95<br>1335 3.33<br>1945 -2.53 | 30<br>Tu | 0610 2.70<br>0854 -2.31<br>1304 2.19<br>1909 -1.99 | 15<br>Th | 0348 4.28<br>1023 -3.81<br>1636 4.48<br>2303 -3.95  | 30<br>F  | 0252 3.38<br>0918 -2.85<br>1539 3.69<br>2157 -3.12 |
|          |                                                    | 31<br>W  | 0158 2.39<br>0818 -1.91<br>1512 2.52<br>2138 -2.18 |          |                                                     |          |                                                    |

## AVONMOUTH

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| May |      |       | June |      |       |
|-----|------|-------|------|------|-------|
|     | Time | m     |      | Time | m     |
| 1   | 0404 | 4.40  | 1    | 0514 | 5.88  |
| Sa  | 1032 | -3.87 | Tu   | 1202 | -4.45 |
|     | 1839 | 4.78  |      | 1745 | 6.08  |
|     | 2308 | -3.95 |      |      |       |
| 2   | 0500 | 5.41  | 2    | 0636 | -4.72 |
| Su  | 1140 | -4.32 | W    | 0807 | 6.35  |
|     | 1731 | 5.74  |      | 1308 | -4.88 |
|     |      |       |      | 1838 | 6.65  |
| 3   | 0613 | -4.59 | 3    | 0134 | -5.14 |
| M   | 0530 | 6.20  |      | 0658 | 6.64  |
|     | 1248 | -4.84 | Th   | 1401 | -5.18 |
|     | 1818 | 6.44  | O    | 1924 | 6.82  |
| 4   | 0113 | -5.11 | 4    | 0224 | -4.42 |
| Th  | 0838 | 6.78  | F    | 0747 | 6.78  |
| O   | 1341 | -5.28 |      | 1447 | -5.28 |
|     | 1902 | 6.88  |      | 2011 | 6.89  |
| 5   | 0203 | -5.50 | 5    | 0309 | -5.49 |
| W   | 0721 | 7.06  | Sa   | 0836 | 6.86  |
|     | 1427 | -5.52 |      | 1529 | -5.18 |
|     | 1945 | 7.11  |      | 2057 | 6.73  |
| 6   | 0248 | -5.71 | 6    | 0351 | -5.34 |
| Th  | 0803 | 7.15  |      | 0824 | 6.33  |
|     | 1608 | -5.87 | Su   | 1808 | -4.88 |
|     | 2026 | 7.10  |      | 2145 | 6.33  |
| 7   | 0324 | -5.88 | 7    | 0431 | -4.69 |
| F   | 0846 | 6.85  |      | 1012 | 6.81  |
|     | 1542 | -5.38 | M    | 1646 | -4.48 |
|     | 2108 | 6.79  |      | 2238 | 5.77  |
| 8   | 0400 | -5.41 | 8    | 0512 | -4.55 |
| Sa  | 0830 | 6.44  |      | 1103 | 5.20  |
|     | 1614 | -4.95 | Tu   | 1727 | -4.00 |
|     | 2151 | 6.15  |      | 2327 | 5.19  |
| 9   | 0433 | -4.94 | 9    | 0557 | -4.13 |
| Su  | 1017 | 5.87  |      | 1155 | 4.84  |
|     | 1847 | -4.40 | W    | 1818 | -3.61 |
|     | 2339 | 5.40  | C    |      |       |
| 10  | 0511 | -4.38 | 10   | 0623 | 4.73  |
| M   | 1108 | 4.82  |      | 0851 | -3.61 |
|     | 1726 | -3.80 | Th   | 1252 | 4.25  |
|     | 2336 | 4.83  |      | 1913 | -3.36 |
| 11  | 0557 | -3.78 | 11   | 0124 | 4.47  |
| Tu  | 1208 | 4.11  |      | 0753 | -3.67 |
| C   | 1818 | -3.22 | F    | 1356 | 4.00  |
|     |      |       |      | 2022 | -3.33 |
| 12  | 0641 | 4.13  | 12   | 0230 | 4.43  |
| W   | 0703 | -3.33 | Sa   | 0858 | -3.72 |
|     | 1318 | 3.78  |      | 1503 | 4.18  |
|     | 1938 | -2.91 |      | 2129 | -3.49 |
| 13  | 0157 | 4.08  | 13   | 0336 | 4.58  |
| Th  | 0831 | -3.42 |      | 0858 | -3.85 |
|     | 1438 | 3.97  | Su   | 1807 | 4.45  |
|     | 2108 | -3.37 |      | 2230 | -3.70 |
| 14  | 0317 | 4.49  | 14   | 0435 | 4.80  |
| F   | 0945 | -3.93 |      | 1057 | -3.98 |
|     | 1554 | 4.49  | M    | 1700 | 4.78  |
|     | 2221 | -3.88 |      | 2337 | -3.90 |
| 15  | 0424 | 5.12  | 15   | 0528 | 5.00  |
| Sa  | 1033 | -4.39 |      | 1151 | -4.14 |
|     | 1654 | 5.13  | Tu   | 1747 | 5.08  |
|     | 2327 | -4.38 |      |      |       |
| 16  | 0518 | 5.80  | 16   | 0618 | -4.11 |
| Su  | 1153 | -4.67 |      | 0810 | 5.17  |
|     | 1742 | 5.88  | W    | 1239 | -4.33 |
|     |      |       |      | 1827 | 5.31  |
| 17  | 0621 | -4.82 | 17   | 0102 | -4.30 |
| M   | 0803 | 5.85  |      | 0651 | 5.30  |
|     | 1242 | -4.78 | Th   | 1321 | -4.80 |
|     | 1823 | 5.80  | S    | 1905 | 5.49  |
| 18  | 0104 | -4.71 | 18   | 0142 | -4.45 |
| Tu  | 0842 | 5.85  |      | 0728 | 6.38  |
|     | 1322 | -4.83 | F    | 1400 | -4.61 |
|     | 1858 | 5.94  |      | 1839 | 5.67  |
| 19  | 0141 | -4.78 | 19   | 0220 | -4.62 |
| W   | 0717 | 5.99  |      | 0803 | 6.33  |
| S   | 1357 | -4.89 | Sa   | 1436 | -4.80 |
|     | 1930 | 6.04  |      | 2012 | 5.64  |
| 20  | 0213 | -4.83 | 20   | 0254 | -4.48 |
| Th  | 0750 | 5.95  |      | 0836 | 5.24  |
|     | 1428 | -4.95 | Su   | 1509 | -4.49 |
|     | 2001 | 6.02  |      | 2045 | 5.48  |
| 21  | 0242 | -4.85 | 21   | 0328 | -4.38 |
| F   | 0821 | 5.78  |      | 0910 | 5.12  |
|     | 1457 | -4.90 | M    | 1542 | -4.32 |
|     | 2030 | 6.04  |      | 2119 | 6.32  |
| 22  | 0309 | -4.75 | 22   | 0400 | -4.21 |
| Sa  | 0831 | 5.44  |      | 0845 | 4.94  |
|     | 1523 | -4.70 | Tu   | 1813 | -4.13 |
|     | 2059 | 5.60  |      | 2157 | 5.12  |
| 23  | 0336 | -4.51 | 23   | 0433 | -4.04 |
| Su  | 0821 | 4.99  |      | 1023 | 4.71  |
|     | 1548 | -4.38 | W    | 1646 | -3.93 |
|     | 2128 | 5.08  |      | 2236 | 4.87  |
| 24  | 0403 | -4.18 | 24   | 0509 | -3.88 |
| M   | 0852 | 4.80  |      | 1104 | 4.43  |
|     | 1615 | -4.02 | Th   | 1723 | -3.72 |
|     | 2201 | 4.69  |      | 2321 | 4.60  |
| 25  | 0433 | -3.83 | 25   | 0549 | -3.68 |
| Tu  | 1028 | 4.02  |      | 1151 | 4.18  |
|     | 1648 | -3.64 | F    | 1808 | -3.62 |
|     | 2241 | 4.14  | S    |      |       |
| 26  | 0509 | -3.45 | 26   | 0612 | 4.38  |
| W   | 1113 | 3.81  |      | 0837 | -3.63 |
|     | 1728 | -3.28 | Sa   | 1245 | 3.98  |
|     | 2333 | 3.77  |      | 1901 | -3.35 |
| 27  | 0557 | -3.17 | 27   | 0112 | 4.28  |
| Th  | 1211 | 3.38  |      | 0735 | -3.43 |
| S   | 1821 | -2.98 | Su   | 1363 | 3.99  |
|     |      |       |      | 2007 | -3.28 |
| 28  | 0639 | 3.82  | 28   | 0224 | 4.40  |
|     | 0701 | -3.00 |      | 0845 | -3.44 |
|     | 1324 | 3.40  | M    | 1507 | 4.32  |
|     | 1934 | -2.88 |      | 2127 | -3.44 |
| 29  | 0158 | 3.85  | 29   | 0336 | 4.77  |
| Sa  | 0819 | -3.18 |      | 1005 | -3.68 |
|     | 1445 | 3.88  | Tu   | 1618 | 4.89  |
|     | 2058 | -3.20 |      | 2246 | -3.84 |
| 30  | 0313 | 4.47  | 30   | 0442 | 6.25  |
| Su  | 0937 | -3.61 |      | 1122 | -4.01 |
|     | 1552 | 4.68  | W    | 1717 | 5.82  |
|     | 2213 | -3.78 |      |      |       |
| 31  | 0415 | 5.22  |      |      |       |
| M   | 1047 | -4.07 |      |      |       |
|     | 1651 | 5.48  |      |      |       |
|     | 2324 | -4.78 |      |      |       |

## AVONMOUTH

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| July |      |       | August |      |       |
|------|------|-------|--------|------|-------|
|      | Time | m     |        | Time | m     |
| 1    | 0003 | -4.30 | 1      | 0203 | -5.27 |
| Th   | 0545 | 5.70  | Su     | 0732 | 6.38  |
|      | 1239 | -4.42 |        | 1428 | -6.28 |
|      | 1815 | 6.06  |        | 1854 | 6.90  |
| 2    | 0112 | -4.79 | 2      | 0254 | -5.70 |
| F    | 0844 | 6.11  | M      | 0820 | 6.72  |
| O    | 1342 | -4.83 |        | 1515 | -6.53 |
|      | 1910 | 6.60  |        | 2039 | 7.12  |
| 3    | 0210 | -5.20 | 3      | 0339 | -5.65 |
| Sa   | 0738 | 6.41  | Tu     | 0903 | 6.80  |
|      | 1439 | -5.11 |        | 1557 | -5.52 |
|      | 2002 | 6.77  |        | 2121 | 7.09  |
| 4    | 0301 | -5.45 | 4      | 0418 | -5.71 |
|      | 0829 | 6.55  |        | 0943 | 6.90  |
| Su   | 1523 | -5.21 | W      | 1831 | -5.24 |
|      | 2050 | 6.83  |        | 2201 | 6.72  |
| 5    | 0348 | -5.49 | 5      | 0461 | -5.31 |
|      | 0916 | 6.44  | Th     | 1021 | 6.13  |
| M    | 1808 | -5.10 |        | 1701 | -4.78 |
|      | 2137 | 6.07  |        | 2239 | 6.13  |
| 6    | 0430 | -5.32 | 6      | 0518 | -4.77 |
| Tu   | 1002 | 6.19  | F      | 1021 | 5.48  |
|      | 1645 | -4.83 |        | 1727 | -4.26 |
|      | 2223 | 6.29  |        | 2316 | 6.38  |
| 7    | 0509 | -4.89 | 7      | 0544 | -4.21 |
|      | 1048 | 5.71  |        | 1130 | 4.75  |
| W    | 1721 | -4.45 | Sa     | 1751 | -3.75 |
|      | 2308 | 5.78  |        | 2353 | 4.58  |
| 8    | 0545 | -4.58 | 8      | 0611 | -3.68 |
|      | 1130 | 5.13  |        | 1207 | 4.06  |
| Th   | 1757 | -4.03 | Su     | 1820 | -3.24 |
|      | 2354 | 5.17  |        |      |       |
| 9    | 0622 | -4.12 | 9      | 0638 | 3.84  |
|      | 1215 | 4.57  |        | 0844 | -3.14 |
| F    | 1836 | -3.62 | M      | 1254 | 3.44  |
|      |      |       |        | 1900 | -2.69 |
| 10   | 0642 | 4.61  | 10     | 0133 | 3.23  |
| Sa   | 0703 | -3.69 | Tu     | 0734 | -2.56 |
|      | 1304 | 4.08  |        | 1403 | 3.04  |
|      | 1920 | -3.23 |        | 2012 | -2.20 |
| 11   | 0136 | 4.16  | 11     | 0249 | 2.98  |
|      | 0754 | -3.32 |        | 0916 | -2.38 |
| Su   | 1401 | 3.78  | W      | 1525 | 3.14  |
|      | 2022 | -2.93 |        | 2204 | -2.49 |
| 12   | 0236 | 3.68  | 12     | 0414 | 3.28  |
|      | 0900 | -3.13 | Th     | 1038 | -2.95 |
| M    | 1505 | 3.69  |        | 1645 | 3.78  |
|      | 2135 | -2.93 |        | 2310 | -3.22 |
| 13   | 0342 | 3.86  | 13     | 0523 | 3.99  |
|      | 1006 | -3.26 |        | 1136 | -3.64 |
| Tu   | 1612 | 3.82  | F      | 1744 | 4.54  |
|      | 2236 | -3.23 |        |      |       |
| 14   | 0447 | 4.10  | 14     | 0606 | -3.68 |
|      | 1108 | -3.59 |        | 0813 | 4.70  |
| W    | 1712 | 4.34  | Sa     | 1233 | -4.17 |
|      | 2337 | -3.84 |        | 1830 | 5.19  |
| 15   | 0543 | 4.47  | 15     | 0102 | -4.30 |
|      | 1202 | -3.96 |        | 0844 | 6.24  |
| Th   | 1803 | 4.80  | Su     | 1324 | -4.81 |
|      |      |       |        | 1908 | 5.84  |
| 16   | 0630 | -4.01 | 16     | 0151 | -4.55 |
|      | 0831 | 4.83  |        | 0732 | 5.83  |
| F    | 1254 | -4.27 | M      | 1409 | -4.71 |
|      | 1847 | 5.17  |        | 1943 | 5.98  |
| 17   | 0120 | -4.27 | 17     | 0234 | -4.74 |
|      | 0713 | 5.09  |        | 0808 | 5.95  |
| Sa   | 1341 | -4.44 | Tu     | 1451 | -4.86 |
|      | 1925 | 5.41  |        | 2018 | 6.27  |
| 18   | 0205 | -4.40 | 18     | 0314 | -4.69 |
|      | 0750 | 5.28  |        | 0840 | 6.20  |
| Su   | 1424 | -4.51 | W      | 1530 | -4.98 |
|      | 2000 | 5.56  |        | 2082 | 6.48  |
| 19   | 0247 | -4.48 | 19     | 0351 | -4.68 |
|      | 0825 | 5.44  |        | 0914 | 6.30  |
| M    | 1503 | -4.54 | Th     | 1604 | -4.97 |
|      | 2035 | 5.74  |        | 2127 | 6.50  |
| 20   | 0325 | -4.52 | 20     | 0423 | -4.69 |
|      | 0859 | 5.59  |        | 0948 | 6.12  |
| Tu   | 1540 | -4.56 | F      | 1634 | -4.78 |
|      | 2110 | 5.87  |        | 2201 | 6.21  |
| 21   | 0401 | -4.54 | 21     | 0481 | -4.58 |
|      | 0934 | 5.64  |        | 1021 | 5.66  |
| W    | 1614 | -4.53 | Sa     | 1700 | -4.39 |
|      | 2146 | 5.86  |        | 2236 | 5.87  |
| 22   | 0434 | -4.48 | 22     | 0515 | -4.18 |
|      | 1009 | 5.51  |        | 1064 | 5.02  |
| Th   | 1646 | -4.39 | Su     | 1727 | -3.98 |
|      | 2223 | 5.83  |        | 2313 | 6.00  |
| 23   | 0505 | -4.31 | 23     | 0542 | -3.78 |
|      | 1046 | 5.17  |        | 1134 | 4.38  |
| F    | 1716 | -4.15 | M      | 1800 | -3.50 |
|      | 2301 | 5.28  |        | 2357 | 4.30  |
| 24   | 0536 | -4.05 | 24     | 0621 | -3.28 |
|      | 1124 | 4.72  |        | 1227 | 3.74  |
| Sa   | 1749 | -3.86 | Tu     | 1846 | -2.98 |
|      | 2342 | 4.85  |        |      |       |
| 25   | 0611 | -3.77 | 25     | 0104 | 3.85  |
|      | 1208 | 4.28  |        | 0719 | -2.72 |
| Su   | 1829 | -3.54 | W      | 1357 | 3.39  |
|      |      |       |        | 2018 | -2.52 |
| 26   | 0632 | 4.42  | 26     | 0240 | 3.47  |
|      | 0854 | -3.45 |        | 0914 | -2.54 |
| M    | 1306 | 3.91  | Th     | 1532 | 3.80  |
|      | 1822 | -3.18 |        | 2212 | -3.01 |
| 27   | 0138 | 4.10  | 27     | 0414 | 4.01  |
|      | 0757 | -3.12 |        | 1053 | -3.24 |
| Tu   | 1429 | 3.84  | F      | 1653 | 4.78  |
|      | 2048 | -2.96 |        | 2340 | -3.93 |
| 28   | 0301 | 4.10  | 28     | 0533 | 5.01  |
|      | 0933 | -3.08 |        | 1220 | -4.19 |
| W    | 1546 | 4.25  | Sa     | 1801 | 6.84  |
|      | 2221 | -3.34 |        |      |       |
| 29   | 0420 | 4.50  | 29     | 0654 | -4.88 |
|      | 1100 | -3.52 |        | 0833 | 5.98  |
| Th   | 1700 | 4.95  | Su     | 1324 | -6.08 |
|      | 2345 | -3.98 |        | 1854 | 6.87  |
| 30   | 0534 | 5.13  | 30     | 0151 | -5.80 |
|      | 1224 | -4.12 |        | 0721 | 6.84  |
| F    | 1808 | 6.74  | M      | 1415 | -5.81 |
|      |      |       | O      | 1939 | 7.16  |
| 31   | 0102 | -4.85 | 31     | 0239 | -5.97 |
|      | 0638 | 6.82  |        | 0803 | 6.98  |
| Sa   | 1333 | -4.77 | Tu     | 1459 | -6.80 |
| O    | 1903 | 6.42  |        | 2020 | 7.35  |



# AVONMOUTH

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| November |      |       | December |      |       |
|----------|------|-------|----------|------|-------|
|          | Time | m     |          | Time | m     |
| 1        | 0335 | -4.81 | 1        | 0337 | -4.14 |
| M        | 0810 | 8.77  | W        | 0918 | 5.17  |
|          | 1544 | -4.30 |          | 1651 | -3.87 |
|          | 2130 | 5.24  |          | 2141 | 4.63  |
| 2        | 0358 | -4.18 | 2        | 0403 | -3.77 |
| Tu       | 0930 | 5.08  | Th       | 0949 | 4.70  |
|          | 1808 | -3.65 |          | 1620 | -3.82 |
|          | 2155 | 4.44  |          | 2215 | 4.14  |
| 3        | 0419 | -3.88 | 3        | 0433 | -3.40 |
| W        | 1001 | 4.37  | F        | 1025 | 4.24  |
|          | 1832 | -3.34 |          | 1654 | -3.17 |
|          | 2224 | 3.68  |          | 2254 | 3.98  |
| 4        | 0445 | -3.14 | 4        | 0509 | -3.04 |
| Th       | 1033 | 3.68  | Sa       | 1112 | 3.82  |
|          | 1705 | -2.79 |          | 1738 | -2.84 |
|          | 2303 | 3.00  |          | 2346 | 3.34  |
| 5        | 0522 | -2.58 | 5        | 0558 | -2.70 |
| F        | 1123 | 3.05  | Su       | 1210 | 3.54  |
|          | 1751 | -2.23 |          | 1834 | -2.80 |
| 6        | 0608 | 2.48  | 6        | 0650 | 3.18  |
| Sa       | 0816 | -2.02 |          | 0700 | -2.60 |
|          | 1245 | 2.68  |          | 1322 | 3.55  |
|          | 1903 | -1.86 |          | 1942 | -2.89 |
| 7        | 0154 | 2.51  | 7        | 0208 | 3.41  |
| Su       | 0748 | -1.83 | Th       | 0818 | -2.81 |
|          | 1434 | 3.08  |          | 1441 | 3.88  |
|          | 2055 | -2.20 |          | 2102 | -2.91 |
| 8        | 0319 | 3.33  | 8        | 0322 | 4.08  |
| M        | 0838 | -2.52 | W        | 0841 | -3.09 |
|          | 1544 | 4.07  |          | 1547 | 4.89  |
|          | 2213 | -3.10 |          | 2217 | -3.46 |
| 9        | 0418 | 4.40  | 9        | 0423 | 4.87  |
| Tu       | 1042 | -3.45 | Th       | 1052 | -3.72 |
|          | 1839 | 5.10  |          | 1648 | 5.42  |
|          | 2314 | -3.87 |          | 2327 | -4.01 |
| 10       | 0609 | 5.39  | 10       | 0618 | 5.65  |
| W        | 1143 | -4.17 | F        | 1200 | -4.30 |
|          | 1727 | 5.94  |          | 1741 | 6.04  |
| 11       | 0616 | -4.43 | 11       | 0633 | -4.48 |
| Th       | 0854 | 6.18  | Sa       | 0810 | 8.28  |
|          | 1242 | -4.69 |          | 1303 | -4.79 |
|          | 1812 | 6.84  |          | 1833 | 6.47  |
| 12       | 0112 | -4.85 | 12       | 0131 | -4.88 |
| F        | 0838 | 6.85  | Su       | 0700 | 6.88  |
| ●        | 1333 | -5.08 |          | 1357 | -5.13 |
|          | 1857 | 6.80  |          | 1824 | 6.72  |
| 13       | 0159 | -5.11 | 13       | 0221 | -5.08 |
| Sa       | 0721 | 8.93  |          | 0748 | 6.88  |
|          | 1418 | -5.27 |          | 1448 | -6.26 |
|          | 1939 | 7.03  |          | 2012 | 6.78  |
| 14       | 0242 | -5.19 | 14       | 0307 | -6.10 |
| Su       | 0802 | 8.99  | Tu       | 0833 | 8.90  |
|          | 1500 | -5.28 |          | 1531 | -5.26 |
|          | 2022 | 6.93  |          | 2100 | 6.83  |
| 15       | 0320 | -5.05 | 15       | 0390 | -4.82 |
| M        | 0844 | 6.80  | W        | 0823 | 6.88  |
|          | 1538 | -5.08 |          | 1614 | -5.04 |
|          | 2108 | 6.55  |          | 2149 | 6.27  |
| 16       | 0354 | -4.71 | 16       | 0430 | -4.61 |
| Tu       | 0927 | 0.34  | Th       | 1012 | 6.28  |
|          | 1614 | -4.68 |          | 1657 | -4.70 |
|          | 2152 | 5.91  |          | 2238 | 6.76  |
| 17       | 0428 | -4.23 | 17       | 0512 | -4.23 |
| W        | 1015 | 5.87  | F        | 1102 | 6.78  |
|          | 1852 | -4.17 |          | 1740 | -4.32 |
|          | 2242 | 6.15  |          | 2328 | 6.19  |
| 18       | 0507 | -3.69 | 18       | 0557 | -3.88 |
| Th       | 1109 | 4.58  | Sa       | 1155 | 5.24  |
|          | 1738 | -3.63 |          | 1828 | -3.98 |
|          | 2340 | 4.44  |          |      |       |
| 19       | 0557 | -3.17 | 19       | 0622 | 4.67  |
| F        | 1212 | 4.43  | Su       | 0848 | -3.63 |
|          | 1836 | -3.22 |          | 1253 | 4.82  |
|          |      |       |          | 1823 | -3.88 |
| 20       | 0646 | 4.01  | 20       | 0722 | 4.31  |
| Sa       | 0708 | -2.88 |          | 0746 | -3.32 |
|          | 1324 | 4.27  |          | 1357 | 4.58  |
|          | 1957 | -3.22 |          | 2025 | -3.65 |
| 21       | 0203 | 4.02  | 21       | 0228 | 4.18  |
| Su       | 0833 | -3.05 | Tu       | 0855 | -3.29 |
|          | 1442 | 4.58  |          | 1504 | 4.58  |
|          | 2114 | -3.64 |          | 2126 | -3.58 |
| 22       | 0321 | 4.48  | 22       | 0358 | 4.30  |
| M        | 0948 | -3.80 | W        | 1000 | -3.41 |
|          | 1554 | 5.13  |          | 1608 | 4.69  |
|          | 2221 | -4.12 |          | 2230 | -3.68 |
| 23       | 0427 | 5.08  | 23       | 0437 | 4.89  |
| Tu       | 1055 | -4.11 | Th       | 1103 | -3.82 |
|          | 1852 | 5.68  |          | 1705 | 4.81  |
|          | 2328 | -4.45 |          | 2330 | -3.87 |
| 24       | 0518 | 5.57  | 24       | 0529 | 4.93  |
| W        | 1155 | -4.43 | F        | 1200 | -3.87 |
|          | 1741 | 5.88  |          | 1754 | 5.14  |
| 25       | 0620 | -4.63 | 25       | 0623 | -4.12 |
| Th       | 0803 | 5.87  | Sa       | 0814 | 5.26  |
|          | 1244 | -4.58 |          | 1248 | -4.11 |
|          | 1823 | 6.11  |          | 1838 | 5.34  |
| 26       | 0104 | -4.89 | 26       | 0109 | -4.34 |
| F        | 0841 | 6.04  | Su       | 0854 | 5.51  |
| O        | 1324 | -4.59 |          | 1330 | -4.28 |
|          | 1900 | 6.15  |          | 1919 | 5.48  |
| 27       | 0142 | -4.72 | 27       | 0149 | -4.48 |
| Sa       | 0715 | 6.14  | M        | 0732 | 5.84  |
|          | 1358 | -4.80 |          | 1409 | -4.36 |
|          | 1936 | 6.11  |          | 1858 | 5.48  |
| 28       | 0215 | -4.73 | 28       | 0228 | -4.48 |
| Su       | 0748 | 6.14  | Tu       | 0806 | 5.84  |
|          | 1430 | -4.58 |          | 1445 | -4.33 |
|          | 2008 | 6.94  |          | 2030 | 6.41  |
| 29       | 0244 | -4.68 | 29       | 0300 | -4.40 |
| M        | 0819 | 5.98  | W        | 0837 | 5.58  |
|          | 1458 | -4.45 |          | 1518 | -4.23 |
|          | 2041 | 6.60  |          | 2101 | 5.30  |
| 30       | 0312 | -4.48 | 30       | 0332 | -4.27 |
| Tu       | 0848 | 5.52  | Th       | 0909 | 5.47  |
|          | 1525 | -4.20 |          | 1551 | -4.11 |
|          | 2111 | 5.14  |          | 2133 | 5.15  |
|          |      |       | 31       | 0402 | -4.11 |
|          |      |       | F        | 0942 | 5.32  |
|          |      |       |          | 1621 | -3.87 |
|          |      |       |          | 2208 | 4.84  |

# BRISTOL (CUMBERLAND BASIN ENT) (High Waters)

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| January       |              |              |               | February     |              |              |              |              |
|---------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|
|               | Time         | m            |               | Time         | m            |              | Time         | m            |
| 1<br>Th       | 0140<br>1417 | 3.72<br>3.92 | 16<br>F       | 0049<br>1319 | 4.37<br>4.83 | 1<br>Su      | 0240<br>1830 | 3.07<br>3.21 |
| 2<br>F        | 0248<br>1525 | 3.83<br>3.96 | 17<br>Sa      | 0200<br>1436 | 4.15<br>4.63 | 2<br>M       | 0404<br>1643 | 3.49<br>3.79 |
| 3<br>Sa       | 0354<br>1627 | 3.90<br>4.27 | 18<br>Su      | 0320<br>1654 | 4.37<br>4.81 | 3<br>Tu      | 0510<br>1743 | 4.30<br>4.56 |
| 4<br>Su       | 0452<br>1721 | 4.41<br>4.71 | 19<br>M       | 0433<br>1706 | 4.97<br>5.34 | 4<br>W       | 0603<br>1831 | 5.11<br>5.24 |
| 5<br>M        | 0542<br>1806 | 4.96<br>5.15 | 20<br>Tu      | 0540<br>1813 | 5.72<br>6.04 | 5<br>Th      | 0647<br>1913 | 5.73<br>5.74 |
| 6<br>Tu       | 0625<br>1850 | 5.48<br>5.48 | 21<br>W<br>●  | 0641<br>1911 | 6.41<br>6.48 | 6<br>F<br>○  | 0737<br>1952 | 6.18<br>6.13 |
| 7<br>W<br>○   | 0704<br>1929 | 5.83<br>5.79 | 22<br>Th      | 0735<br>2002 | 6.94<br>6.85 | 7<br>Sa      | 0804<br>2028 | 6.54<br>6.47 |
| 8<br>Th       | 0742<br>2006 | 6.05<br>5.83 | 23<br>F       | 0822<br>2046 | 7.24<br>7.01 | 8<br>Su      | 0841<br>2104 | 6.85<br>6.73 |
| 9<br>F        | 0818<br>2042 | 6.19<br>5.97 | 24<br>Sa      | 0907<br>2129 | 7.30<br>6.92 | 9<br>M       | 0917<br>2140 | 7.03<br>6.77 |
| 10<br>Sa      | 0854<br>2118 | 6.28<br>6.03 | 25<br>Su      | 0947<br>2207 | 7.07<br>6.56 | 10<br>Tu     | 0954<br>2215 | 6.98<br>6.61 |
| 11<br>Su      | 0931<br>2155 | 6.30<br>5.95 | 26<br>M       | 1028<br>2243 | 6.58<br>5.97 | 11<br>W      | 1030<br>2250 | 6.56<br>5.96 |
| 12<br>M       | 1009<br>2233 | 6.16<br>5.89 | 27<br>Tu      | 1102<br>2318 | 5.89<br>5.25 | 12<br>Th     | 1107<br>2327 | 5.97<br>5.28 |
| 13<br>Tu      | 1048<br>2312 | 5.84<br>5.27 | 28<br>W       | 1137<br>2349 | 5.10<br>4.52 | 13<br>F<br>( | 1148<br>2340 | 5.24         |
| 14<br>W       | 1131<br>2355 | 5.42<br>4.80 | 29<br>Th<br>) | 1213         | 4.32         | 14<br>Sa     | 0018<br>1240 | 4.55<br>4.50 |
| 15<br>Th<br>( | 1219         | 4.98         | 30<br>F       | 0027<br>1301 | 3.84<br>3.82 | 15<br>Su     | 0118<br>1359 | 3.92<br>3.95 |
|               |              |              | 31<br>Sa      | 0121<br>1408 | 3.77<br>3.15 |              |              |              |



**BRISTOL (CUMBERLAND BASIN ENT) (High Waters)**

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| May |      |      | June |      |      |
|-----|------|------|------|------|------|
|     | Time | m    |      | Time | m    |
| 1   | 0413 | 4.68 | 1    | 0522 | 5.25 |
| Sa  | 1646 | 5.03 | Tu   | 1752 | 5.39 |
| 2   | 0508 | 5.74 | 2    | 0615 | 6.74 |
| Su  | 1739 | 5.01 | W    | 1842 | 5.87 |
| 3   | 0556 | 6.57 | 3    | 0705 | 7.02 |
| M   | 1825 | 5.73 | Th   | 1931 | 7.14 |
| 4   | 0644 | 7.12 | O    |      |      |
| Tu  | 1909 | 7.20 | 4    | 0754 | 7.09 |
| 5   | 0728 | 7.43 | F    | 2016 | 7.18 |
| W   | 1952 | 7.43 | 5    | 0843 | 6.94 |
| 6   | 0810 | 7.50 | Sa   | 2104 | 6.97 |
| Th  | 2032 | 7.40 | 6    | 0931 | 6.66 |
| 7   | 0853 | 7.27 | Su   | 2152 | 6.53 |
| F   | 2114 | 7.08 | 7    | 1019 | 5.99 |
| 8   | 0936 | 6.70 | M    | 2243 | 5.94 |
| Sa  | 2157 | 6.40 | 8    | 1110 | 5.34 |
| 9   | 1022 | 5.86 | Tu   | 2334 | 5.34 |
| Su  | 2244 | 5.54 | 9    | 1203 | 4.76 |
| 10  | 1113 | 4.93 | W    |      |      |
| M   | 2340 | 4.72 | C    |      |      |
| 11  | 1214 | 4.17 | 10   | 0031 | 4.85 |
| Tu  |      |      | Th   | 1300 | 4.36 |
| 12  | 0048 | 4.19 | 11   | 0133 | 4.58 |
| W   | 1326 | 3.82 | F    | 1404 | 4.18 |
| 13  | 0208 | 4.17 | 12   | 0240 | 4.55 |
| Th  | 1446 | 4.02 | Sa   | 1512 | 4.28 |
| 14  | 0324 | 4.84 | 13   | 0345 | 4.71 |
| F   | 1601 | 4.64 | Su   | 1615 | 4.58 |
| 15  | 0431 | 5.31 | 14   | 0443 | 4.95 |
| Sa  | 1701 | 5.31 | M    | 1708 | 4.82 |
| 16  |      |      | 15   | 0532 | 5.17 |
| 17  | 0610 | 6.05 | Tu   | 1753 | 5.25 |
| M   | 1829 | 5.96 | 16   | 0616 | 6.36 |
| 18  | 0648 | 6.13 | W    | 1834 | 5.54 |
| Tu  | 1904 | 6.14 | 17   | 0657 | 5.61 |
| 19  | 0722 | 6.17 | Th   | 1910 | 5.76 |
| W   | 1936 | 6.27 | O    |      |      |
| 20  | 0756 | 6.17 | 18   | 0734 | 5.66 |
| Th  | 2007 | 6.30 | F    | 1946 | 5.86 |
| 21  | 0827 | 6.02 | 19   | 0810 | 5.55 |
| F   | 2037 | 6.14 | Sa   | 2018 | 5.68 |
| 22  | 0857 | 5.69 | 20   | 0843 | 5.50 |
| Sa  | 2108 | 5.78 | Su   | 2052 | 5.76 |
| 23  | 0927 | 5.21 | 21   | 0917 | 6.36 |
| Su  | 2137 | 5.29 | M    | 2129 | 6.59 |
| 24  | 0959 | 4.66 | 22   | 0952 | 5.16 |
| M   | 2210 | 4.76 | Tu   | 2204 | 5.35 |
| 25  | 1034 | 4.12 | 23   | 1030 | 4.69 |
| Tu  | 2249 | 4.24 | W    | 2244 | 5.04 |
| 26  | 1119 | 3.86 | 24   | 1110 | 4.56 |
| W   | 2340 | 3.84 | Th   | 2328 | 4.74 |
| 27  | 1218 | 3.38 | 25   | 1157 | 4.26 |
| Th  |      |      | F    |      |      |
| 28  | 0048 | 3.70 | 26   | 0018 | 4.81 |
| F   | 1334 | 3.49 | Sa   | 1252 | 4.08 |
| 29  | 0208 | 3.99 | 27   | 0120 | 4.44 |
| Sa  | 1453 | 4.00 | Su   | 1401 | 4.13 |
| 30  | 0322 | 4.70 | 28   | 0233 | 4.62 |
| Su  | 1600 | 4.85 | M    | 1514 | 4.62 |
| 31  | 0425 | 5.53 | 29   | 0344 | 5.07 |
| M   | 1858 | 5.70 | Tu   | 1622 | 5.17 |
|     |      |      | 30   | 0450 | 6.61 |
|     |      |      | W    | 1724 | 5.84 |

**BRISTOL (CUMBERLAND BASIN ENT) (High Waters)**

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| July        |              |              |               | August       |              |              |              |              |
|-------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|
|             | Time         | m            |               | Time         | m            |              | Time         | m            |
| 1<br>Th     | 0552<br>1822 | 6.09<br>6.40 | 16<br>F       | 0638<br>1853 | 5.09<br>5.60 | 1<br>Su      | 0740<br>2002 | 6.88<br>7.20 |
| 2<br>F<br>O | 0651<br>1917 | 6.47<br>6.81 | 17<br>Sa<br>● | 0720<br>1932 | 5.37<br>5.75 | 2<br>M       | 0828<br>2048 | 6.99<br>7.42 |
| 3<br>Sa     | 0746<br>2010 | 6.71<br>7.04 | 18<br>Su      | 0758<br>2008 | 6.55<br>6.92 | 3<br>Tu      | 0912<br>2130 | 7.08<br>7.37 |
| 4<br>Su     | 0837<br>2058 | 6.81<br>7.09 | 19<br>M       | 0832<br>2043 | 5.70<br>6.07 | 4<br>W       | 0952<br>2210 | 6.89<br>7.02 |
| 5<br>M      | 0925<br>2146 | 6.72<br>6.92 | 20<br>Tu      | 0907<br>2118 | 5.85<br>6.17 | 5<br>Th      | 1028<br>2247 | 6.42<br>6.39 |
| 6<br>Tu     | 1010<br>2231 | 6.43<br>6.54 | 21<br>W       | 0941<br>2154 | 5.89<br>6.13 | 6<br>F       | 1103<br>2323 | 6.71<br>5.96 |
| 7<br>W      | 1055<br>2316 | 5.94<br>5.96 | 22<br>Th      | 1018<br>2230 | 5.74<br>5.69 | 7<br>Sa<br>C | 1136<br>2358 | 4.92<br>4.68 |
| 8<br>Th     | 1138<br>2358 | 5.33         | 23<br>F       | 1052<br>2307 | 5.38<br>5.49 | 8<br>Su      | 1210<br>2410 | 4.16         |
| 9<br>F<br>C | 0001<br>1222 | 5.34<br>4.70 | 24<br>Sa      | 1130<br>2348 | 4.91<br>5.04 | 9<br>M       | 0039<br>1255 | 3.86<br>3.49 |
| 10<br>Sa    | 0049<br>1310 | 4.71<br>4.16 | 25<br>Su<br>J | 1213<br>2413 | 4.45         | 10<br>Tu     | 0138<br>1408 | 3.21<br>3.07 |
| 11<br>Su    | 0143<br>1408 | 4.21<br>3.81 | 26<br>M       | 0037<br>1311 | 4.51<br>4.09 | 11<br>W      | 0302<br>1540 | 3.01<br>3.28 |
| 12<br>M     | 0246<br>1518 | 3.93<br>3.77 | 27<br>Tu      | 0148<br>1433 | 4.31<br>4.05 | 12<br>Th     | 0427<br>1655 | 3.48<br>4.06 |
| 13<br>Tu    | 0353<br>1622 | 3.97<br>4.08 | 28<br>W       | 0310<br>1553 | 4.38<br>4.52 | 13<br>F      | 0531<br>1751 | 4.28<br>4.92 |
| 14<br>W     | 0456<br>1720 | 4.28<br>4.59 | 29<br>Th      | 0428<br>1708 | 4.64<br>5.27 | 14<br>Sa     | 0621<br>1838 | 6.02<br>5.58 |
| 15<br>Th    | 0550<br>1810 | 4.71<br>5.11 | 30<br>F       | 0540<br>1813 | 6.48<br>6.07 | 15<br>Su     | 0703<br>1916 | 5.55<br>6.01 |
|             |              |              | 31<br>Sa<br>O | 0648<br>1911 | 6.16<br>6.74 |              |              |              |
|             |              |              |               |              |              | 16<br>M<br>● | 0740<br>1951 | 6.91<br>6.32 |
|             |              |              |               |              |              | 17<br>Tu     | 0814<br>2025 | 6.20<br>6.69 |
|             |              |              |               |              |              | 18<br>W      | 0848<br>2100 | 6.46<br>6.79 |
|             |              |              |               |              |              | 19<br>Th     | 0922<br>2134 | 6.57<br>6.79 |
|             |              |              |               |              |              | 20<br>F      | 0955<br>2206 | 6.39<br>6.48 |
|             |              |              |               |              |              | 21<br>Sa     | 1028<br>2243 | 5.91<br>5.92 |
|             |              |              |               |              |              | 22<br>Su     | 1101<br>2319 | 6.26<br>6.23 |
|             |              |              |               |              |              | 23<br>M<br>J | 1139<br>2358 | 4.56         |
|             |              |              |               |              |              | 24<br>Tu     | 0002<br>1231 | 4.60<br>3.93 |
|             |              |              |               |              |              | 25<br>W      | 0110<br>1402 | 3.84<br>3.57 |
|             |              |              |               |              |              | 26<br>Th     | 0249<br>1536 | 3.89<br>4.03 |
|             |              |              |               |              |              | 27<br>F      | 0420<br>1701 | 4.29<br>5.06 |
|             |              |              |               |              |              | 28<br>Sa     | 0540<br>1809 | 6.32<br>6.18 |
|             |              |              |               |              |              | 29<br>Su     | 0640<br>1903 | 6.29<br>7.01 |
|             |              |              |               |              |              | 30<br>M<br>O | 0730<br>1949 | 6.93<br>7.46 |
|             |              |              |               |              |              | 31<br>Tu     | 0812<br>2029 | 7.25<br>7.96 |

**BRISTOL (CUMBERLAND BASIN ENT) (High Waters)**

**Year : 2004**

Computed and formatted by POLTP8 for Windows 3 : Proudman Oceanographic Laboratory's Tidal Software

# BRISTOL (CUMBERLAND BASIN ENT) (High Waters)

GMT

Datum : Ordnance Datum (Newlyn)

Year : 2004

| November |              |              |          | December     |              |          |              |              |
|----------|--------------|--------------|----------|--------------|--------------|----------|--------------|--------------|
|          | Time         | m            |          | Time         | m            |          | Time         | m            |
| 1<br>M   | 0918<br>2137 | 6.97<br>6.39 | 16<br>Tu | 0934<br>2156 | 6.99<br>6.14 | 1<br>W   | 0926<br>2149 | 5.38<br>4.77 |
| 2<br>Tu  | 0943<br>2203 | 5.21<br>4.52 | 17<br>W  | 1021<br>2249 | 5.86<br>5.32 | 2<br>Th  | 0958<br>2222 | 4.83<br>4.22 |
| 3<br>W   | 1010<br>2231 | 4.42<br>3.89 | 18<br>Th | 1115<br>2347 | 5.12<br>4.57 | 3<br>F   | 1034<br>2302 | 4.31<br>3.72 |
| 4<br>Th  | 1041<br>2309 | 3.66<br>2.94 | 19<br>F  | 1219         | 4.50         | 4<br>Sa  | 1119<br>2352 | 3.86<br>3.33 |
| 5<br>F   | 1131         | 2.99         | 20<br>Sa | 0055<br>1334 | 4.13<br>4.42 | 5<br>Su  | 1219         | 3.57         |
| 6<br>Sa  | 0017<br>1300 | 2.39<br>2.65 | 21<br>Su | 0211<br>1451 | 4.15<br>4.75 | 6<br>M   | 0059<br>1333 | 3.19<br>3.62 |
| 7<br>Su  | 0210<br>1448 | 2.51<br>3.16 | 22<br>M  | 0328<br>1601 | 4.63<br>5.36 | 7<br>Tu  | 0219<br>1450 | 3.47<br>4.12 |
| 8<br>M   | 0331<br>1555 | 3.43<br>4.25 | 23<br>Tu | 0434<br>1700 | 5.26<br>5.91 | 8<br>W   | 0331<br>1558 | 4.19<br>4.91 |
| 9<br>Tu  | 0428<br>1646 | 4.58<br>5.34 | 24<br>W  | 0528<br>1749 | 5.78<br>6.21 | 9<br>Th  | 0431<br>1655 | 5.09<br>5.73 |
| 10<br>W  | 0517<br>1735 | 5.39<br>6.23 | 25<br>Th | 0610<br>1831 | 6.07<br>6.32 | 10<br>F  | 0528<br>1749 | 5.94<br>6.40 |
| 11<br>Th | 0602<br>1821 | 6.39<br>6.65 | 26<br>F  | 0648<br>1908 | 6.24<br>6.34 | 11<br>Sa | 0617<br>1840 | 6.60<br>6.85 |
| 12<br>F  | 0648<br>1904 | 6.93<br>7.23 | 27<br>Sa | 0722<br>1943 | 6.36<br>6.31 | 12<br>Su | 0707<br>1931 | 7.03<br>7.07 |
| 13<br>Sa | 0728<br>1947 | 7.24<br>7.37 | 28<br>Su | 0755<br>2017 | 6.36<br>6.16 | 13<br>M  | 0755<br>2020 | 7.23<br>7.08 |
| 14<br>Su | 0810<br>2030 | 7.31<br>7.28 | 29<br>M  | 0827<br>2049 | 6.21<br>5.81 | 14<br>Tu | 0843<br>2106 | 7.20<br>6.59 |
| 15<br>M  | 0851<br>2113 | 7.09<br>6.63 | 30<br>Tu | 0857<br>2119 | 6.65<br>6.32 | 15<br>W  | 0931<br>2157 | 6.98<br>6.60 |
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## TIDAL DESCRIPTIONS & DEFINITIONS

### Cause of Tides

Tides are the alternating rise and fall of the surface of the seas and oceans. They are due mainly to the gravitational attraction (pull) of the moon and sun on the rotating earth. Two high and two low tides occur daily around Britain and, with average weather conditions, scientists can predict their movements with considerable accuracy.

Both moon and sun affect the tides, but since the moon is much closer to the earth it has more than twice the effect of the sun, even though it is much smaller.

As everyone knows, the moon orbits around the earth. However, the earth is not fixed rigidly in space, and as the moon orbits, it attracts the earth round in a monthly orbit of its own. So the earth has a small orbit caused by the moon in addition to its annual one round the sun. It is the gravitational pull of the moon on the earth which keeps the earth in its monthly orbit.

The attractive pull of gravity gets weaker as the distance between the objects increases (and it becomes stronger, of course, the closer they get). The earth is large, so the pull of gravity on the side of the earth nearer the moon is stronger than the pull on the side of the earth furthest from the moon.

The pull of the moon's gravity is just enough to keep the earth in its monthly orbit, but it is a bit stronger on the surface of the earth facing the moon (near side) and weaker on the far side. This means that on the near side, the moon tends to pull anything that's free to move towards it. In the same way, on the far side, there isn't quite enough gravitational pull, so that anything that's free to move tends to fly off, away from the moon. Although land isn't free to move, the oceans are. So on the near side they are pulled into a bulge towards the moon, and on the far side, they pile up into a bulge away from the moon.

As the earth spins, different parts of the world move under the two bulges of high water and experience high tides, giving the familiar two tides a day around Britain. In some parts of the world, local effects can mean only one tide a day, or even none.

Between the two bulges are two troughs of low water, producing two low tides a day. The sun also creates a very similar though smaller effect (the solar tide) and it is the interaction of the lunar and solar tides that causes spring and neap tides.

## Spring and Neap Tides

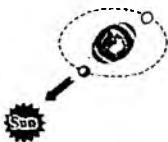
Tides change in height - low water level and high water level vary throughout the month. The tides build up to a maximum and fall to a minimum twice a month. The tides with the biggest difference between high and low water are called springs and those with the smallest are called neaps.

Spring tides happen just after every full and new moon, when the sun, moon and earth are in line. That's when lunar and solar tides line up and reinforce each other, making a bigger total tide. Neap tides occur when the moon is in the first or third quarter - when the sun, earth and moon form a right angle. The lunar high tide coincides with the solar low tide and they partly cancel out, giving a small total tide.

Because of the regular motion of the sun, moon and earth, spring tides occur roughly 36 to 48 hours after the full or new moons, and for any given location, always at roughly the same time of day.

Not all spring tides are the same size. Springs nearest the equinoxes (21 March and 21 September - when day and night are of equal length all over the world) are slightly bigger. The explanation for this is very complex and won't be given here.

### Spring Tides



### Neap Tides



### Other Effects

Tides are also affected by the weather and the shape of the coastline. In the upper reaches of estuaries the river bed and shape of the estuary can distort the tidal pattern, producing long flood times and short ebb times. Though the time from high tide to high tide is the same as usual - roughly 12 hours 25 minutes - low tide is not half way between them.

The weather also has a profound effect on the tide - strong winds and abnormal atmospheric pressure are two of the main causes of altered tides. Variations in tidal heights are mainly caused by strong or prolonged winds and by unusually high or low barometric pressure. Differences between predicted and actual times of high and low water are caused mainly by wind.

## **Tidal Levels – Definitions (as defined in Admiralty Tide Tables 1999 Vol. 1)**

1. **Chart Datum** – is defined as a level, at a particular location, so low that the tide will not frequently fall below it. This level normally approximates to the level of Lowest Astronomical Tide. It is used by the nautical community to determine the draught in a harbour on any tide. **Ordnance Datum (Newlyn)** – is defined as the mean sea level calculated from hourly tidal observations taken over a six-year period (1915-21) at Newlyn and is useful when relating tide heights to sea defence levels.
2. **HAT (Highest Astronomical Tide) and LAT (Lowest Astronomical Tide)** – The highest and lowest levels respectively which can be predicted to occur under average meteorological conditions ; these levels will not be reached every year. HAT and LAT are not the extreme levels which can be reached, as storm surges may cause considerably higher and lower levels to occur.
3. **MHWS (Mean High Water Springs) and MLWS (Mean Low Water Springs)** – The height of mean high water springs is the average (throughout a year when the average maximum declination of the moon is  $23\frac{1}{2}^{\circ}$ ) of the heights of two successive high waters during those periods of 24 hours (approximately once a fortnight) when the range of the tide is greatest. The height of mean low water springs is the average height obtained from the two successive low waters during the same periods.
4. **MHWN (Mean High Water Neaps) and MLWN (Mean Low Water Neaps)** – The height of mean high water neaps is the average (throughout a year as defined in 3 above) of the heights of two successive high waters during those periods (approximately once a fortnight) when the range of the tide is least. The height of mean low water neaps is the average height obtained from the two successive low waters during the same periods.
5. The values of **MHWS, MHWN, MLWN and MLWS** vary from year to year in a cycle of approximately 18.6 years. In general, the levels are computed from at least a year's predictions and are adjusted for the long period variations to give values which are the average over the whole cycle. The values of **HAT** and **LAT** are determined by inspection over a span of years.
6. **MSL (Mean Sea Level)** – The average level of the sea surface over a long period (preferably 18.6 years), or the average level which would exist in the absence of tides.
7. **MTL (Mean Tide Level)** – Can be calculated by meaning the heights of **MHWS, MHWN, MLWN and MLWS**.

# **FLOODING INFORMATION**

Dial and listen for information on flooding in your area.



ENVIRONMENT  
AGENCY

# **Floodline**

## **0845 988 1188**

The Environment Agency's telephone flood warning service gives you information on all flood warnings which may be in force at any time for rivers and the coast in England and Wales.

### **QUICKDIAL NUMBERS FOR THE SOUTH WEST COASTLINE ARE:**

|                                             |       |
|---------------------------------------------|-------|
| The North Cornwall Coast                    | 04121 |
| The South Cornwall Coast including Plymouth | 04122 |
| The North Devon Coast                       | 04221 |
| The South Devon Coast                       | 04222 |
| The Somerset Coast                          | 0432  |
| The West Coast of Dorset                    | 04531 |
| The East Coast of Dorset                    | 04532 |

To use the quickdial number, dial 0845 9881188, select the option to hear recorded flood warnings and when the recorded message begins, use the quickdial number for your area.

## Wind Speed Conversions

| Beaufort Scale | Speed in Knots * | Speed in MPH * | Description     | Probable Wave Height |       |
|----------------|------------------|----------------|-----------------|----------------------|-------|
|                |                  |                |                 | Mean m ++            | Max m |
| 0              | < 1              | < 1            | Calm            | 0.0                  | 0.0   |
| 1              | 1 - 3            | 1 - 4          | Light Air       | 0.1                  | 0.1   |
| 2              | 4 - 6            | 5 - 7          | Light Breeze    | 0.2                  | 0.3   |
| 3              | 7 - 10           | 8 - 11         | Gentle Breeze   | 0.6                  | 1.0   |
| 4              | 11 - 16          | 12 - 18        | Moderate Breeze | 1.0                  | 1.5   |
| 5              | 17 - 21          | 19 - 24        | Fresh Breeze    | 2.0                  | 2.5   |
| 6              | 22 - 27          | 25 - 31        | Strong Breeze   | 3.0                  | 4.0   |
| 7              | 28 - 33          | 32 - 38        | Near Gale       | 4.0                  | 5.5   |
| 8              | 34 - 40          | 39 - 45        | Gale            | 5.5                  | 7.5   |
| 9              | 41 - 47          | 46 - 53        | Strong Gale     | 7.0                  | 10.0  |
| 10             | 48 - 55          | 54 - 63        | Storm           | 9.0                  | 12.5  |
| 11             | 56 - 63          | 64 - 72        | Violent Storm   | 11.5                 | 16.0  |
| 12             | > 63             | > 72           | Hurricane       | 14.0                 |       |

\* Measured at 10m above Sea Level.

++ Wave heights in open waters. Near land, waves will be smaller and steeper.

## **SOUTH WEST REGION ADDRESSES**

### **REGIONAL OFFICE**

Environment Agency  
South West Region  
Manley House  
Kestrel Way  
Exeter EX2 7LQ  
Tel: 01392 444 000  
Fax: 01392 444 238

### **SOUTH WESSEX AREA OFFICE**

Environment Agency  
Rivers House  
Sunrise Business Park  
Higher Shaftesbury Road  
Blandford DT11 8ST  
Tel: 01258 456 080  
Fax: 01258 455 998

### **DEVON AREA OFFICE**

Environment Agency  
Exminster House  
Miller Way  
Exminster  
Devon EX6 8AS  
Tel: 01392 444 000  
Fax: 01392 316 016

### **CORNWALL AREA OFFICE**

Environment Agency  
Sir John Moore House  
Victoria Square  
Bodmin PL31 1EB  
Tel: 01208 78301  
Fax: 01208 78321

### **NORTH WESSEX AREA OFFICE**

Environment Agency  
Rivers House, East Quay  
Bridgwater TA6 4YS  
Tel: 01278 457 333  
Fax: 01278 452 985



[www.environment-agency.gov.uk](http://www.environment-agency.gov.uk)

**ENVIRONMENT AGENCY  
GENERAL ENQUIRY LINE**

**0845 933 3111**

**ENVIRONMENT AGENCY  
FLOOD LINE**

**0845 988 1188**

**ENVIRONMENT AGENCY  
EMERGENCY HOTLINE**

**0800 80 70 60**



**ENVIRONMENT  
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