

# YEAR BOOK OF THE FUNDAMENTAL HARMONIC TIDES FOR THE YEAR 1943

by

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The monthly tables, given below, furnishing the times of the potential High Water at Greenwich for certain harmonic constituents of the tide, for each day of the year 1943, are published as supplements to the various articles which have appeared in the Hydrographic Review in the following volumes :—

Vol. XIV, N° 2, November 1937, pages 53-59.

Vol. XVI, N° 1, May 1939, pages 59-63.

Vol. XVII, N° 1, May 1940, pages 139-159.

Vol. XVIII, N° 1, May 1941, pages 76-83.

The data is calculated by the method explained in the above-mentioned articles, and in particular with the aid of the Permanent Tables published in Vol. XVI, N° 1, pages 60-62.

Vol. XVII, N° 1, contains the calendar of the same Fundamental Harmonic Tides for the year 1942, accompanied by the Permanent Tables for the Conversion of the Establishments and for the Phase Lag Correction for Longitude (pages 153 to 159).

The Calendar given below for the year 1943 has been calculated on the assumption that the value of the part  $u$  of the Equilibrium argument, a value taken for the 2nd July, is constant throughout the entire year. However, for the components  $K_2$ ,  $K_1$ ,  $O_1$  and  $Q_1$ , there is a slight monthly correction to be applied in order to compensate for the slight variation in the course of the year of that variable portion of their argument, calculated as a function of the longitude of the ascending node of the moon, for which a mean value has been taken for each month.

These corrections are given in minutes of time in the following table :

|                 | $K_2$ and $K_1$<br>Tides | $O_1$ Tides      | $Q_1$ Tides      |
|-----------------|--------------------------|------------------|------------------|
| January .....   | — 5 min.                 | + 6 and + 5 min. | + 7 and + 6 min. |
| February .....  | — 4 >                    | + 5 and + 4 >    | + 6 and + 5 >    |
| March .....     | — 3 >                    | + 4 and + 3 >    | + 5 and + 4 >    |
| April .....     | — 2 >                    | + 3 and + 2 >    | + 4 and + 3 >    |
| May .....       | — 1 >                    | + 2 and + 1 >    | + 2 >            |
| June .....      | 0 >                      | + 1 and 0 >      | + 1 and 0 >      |
| July .....      | 0 >                      | 0 and — 1 >      | 0 and — 1 >      |
| August .....    | + 1 >                    | — 2 >            | — 1 and — 2 >    |
| September ..... | + 2 >                    | — 2 >            | — 2 and — 3 >    |
| October .....   | + 3 >                    | — 3 >            | — 3 and — 4 >    |
| November .....  | + 4 >                    | — 3 and 4 >      | — 4 and — 5 >    |
| December .....  | + 4 >                    | — 4 and 5 >      | — 5 and — 6 >    |

The following table shows amplitude for the year 1943 also the period of each constituent :

| TIDE                           | M <sub>2</sub> | S <sub>2</sub> | N <sub>2</sub> | K <sub>2</sub> | K <sub>1</sub> | O <sub>1</sub> | P <sub>1</sub> | Q <sub>1</sub> | M <sub>4</sub> | MS <sub>4</sub> |
|--------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| Amplitude factors<br>for 1943. | 1.03           | 1.00           | 1.03           | 0.81           | 0.92           | 0.87           | 1.00           | 0.87           | 1.06           | 1.03            |
|                                | h m            | h m            | h m            | h m            | h m            | h m            | h m            | h m            | h m            | h m             |
| Period.                        | 12.25          | 12.00          | 12.39          | 11.58          | 23.56          | 25.49          | 24.04          | 26.52          | 06.13          | 06.06           |

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HEURES DES PLEINES MERS POTENTIELLES A GREENWICH  
TIMES OF POTENTIAL HIGH WATERS AT GREENWICH  
FEVRIER 1943

TABLE Tm

|    | M.    | S.    | N.    | K.    | K.    | O.    | P.    | Q.    | M.    | MS.   |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1  | 09.05 | 12.00 | 08.17 | 03.38 | 21.38 | 21.05 | 02.41 | 19.56 | 02.50 | 04.27 |
| 2  | 09.54 | 12.00 | 09.36 | 03.34 | 21.34 | 22.54 | 02.45 | 22.48 | 03.40 | 04.52 |
| 3  | 10.44 | 12.00 | 10.55 | 03.31 | 21.30 | 24.43 | 02.49 | 25.40 | 04.31 | 05.17 |
| 4  | 11.34 | 12.00 | 12.14 | 03.26 | 21.26 | 26.33 | 02.53 | 01.40 | 05.21 | 05.41 |
| 5  | 11.59 | 12.00 | 00.34 | 03.22 | 21.22 | 02.52 | 02.57 | 04.32 | 06.11 | 00.45 |
| 6  | 09.50 | 12.00 | 02.13 | 03.18 | 21.18 | 04.22 | 03.01 | 07.24 | 00.48 | 00.25 |
| 7  | 01.40 | 12.00 | 03.32 | 03.14 | 21.14 | 06.11 | 03.05 | 10.16 | 01.39 | 00.50 |
| 8  | 02.51 | 12.00 | 04.51 | 03.11 | 01.10 | 08.00 | 03.09 | 13.08 | 02.29 | 01.14 |
| 9  | 03.21 | 12.00 | 06.10 | 03.08 | 21.06 | 09.48 | 03.13 | 16.00 | 03.20 | 01.39 |
| 10 | 04.12 | 12.00 | 07.29 | 03.04 | 21.04 | 11.37 | 03.17 | 18.52 | 04.10 | 02.04 |
| 11 | 05.02 | 12.00 | 08.48 | 03.00 | 20.57 | 13.27 | 03.21 | 21.44 | 05.01 | 02.29 |
| 12 | 05.53 | 12.00 | 10.07 | 02.56 | 20.53 | 15.16 | 03.25 | 24.37 | 05.51 | 02.54 |
| 13 | 06.43 | 12.00 | 11.26 | 02.52 | 20.49 | 17.05 | 03.29 | 00.37 | 00.29 | 03.18 |
| 14 | 07.33 | 12.00 | 00.05 | 02.48 | 20.45 | 18.54 | 03.33 | 03.30 | 01.20 | 03.43 |
| 15 | 08.24 | 12.00 | 01.24 | 02.44 | 20.41 | 20.43 | 03.37 | 06.22 | 02.10 | 04.08 |
| 16 | 09.15 | 12.00 | 02.43 | 02.40 | 20.37 | 22.32 | 03.41 | 09.13 | 03.01 | 04.33 |
| 17 | 10.05 | 12.00 | 04.02 | 02.36 | 20.33 | 24.21 | 03.45 | 12.05 | 03.51 | 04.58 |
| 18 | 10.55 | 12.00 | 05.21 | 02.32 | 20.29 | 00.23 | 03.49 | 14.57 | 04.42 | 05.22 |
| 19 | 11.46 | 12.00 | 06.40 | 02.28 | 20.25 | 02.11 | 03.53 | 17.49 | 05.32 | 05.47 |
| 20 | 00.11 | 12.00 | 07.59 | 02.24 | 20.21 | 04.00 | 03.56 | 20.41 | 00.10 | 00.06 |
| 21 | 01.02 | 12.00 | 09.18 | 02.20 | 20.18 | 05.49 | 04.00 | 23.34 | 01.00 | 00.30 |
| 22 | 01.52 | 12.00 | 10.37 | 02.16 | 20.14 | 07.38 | 04.04 | 26.26 | 01.51 | 00.54 |
| 23 | 02.43 | 12.00 | 11.56 | 02.12 | 20.10 | 09.27 | 04.08 | 02.26 | 02.41 | 01.19 |
| 24 | 03.33 | 12.00 | 00.36 | 02.09 | 20.06 | 11.16 | 04.12 | 05.19 | 03.32 | 01.44 |
| 25 | 04.24 | 12.00 | 01.55 | 02.05 | 20.03 | 13.05 | 04.16 | 08.11 | 04.22 | 02.10 |
| 26 | 05.14 | 12.00 | 03.14 | 02.01 | 19.99 | 14.54 | 04.20 | 11.03 | 05.13 | 02.35 |
| 27 | 06.05 | 12.00 | 04.33 | 01.57 | 19.96 | 16.43 | 04.24 | 13.55 | 06.03 | 03.01 |
| 28 | 06.55 | 12.00 | 05.52 | 01.53 | 19.92 | 18.32 | 04.28 | 16.47 | 00.42 | 03.26 |

HEURES DES PLEINES MERS POTENTIELLES A GREENWICH  
TIMES OF POTENTIAL HIGH WATERS AT GREENWICH  
JANVIER 1943

TABLE Tm

|    | M.    | S.    | N.    | K.    | K.    | O.    | P.    | Q.    | M.    | MS.   |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1  | 07.49 | 12.00 | 05.27 | 03.40 | 21.29 | 16.20 | 00.39 | 11.39 | 01.56 | 03.21 |
| 2  | 08.40 | 12.00 | 06.46 | 03.36 | 21.33 | 18.10 | 00.43 | 14.31 | 02.26 | 04.16 |
| 3  | 09.30 | 12.00 | 08.05 | 03.32 | 21.31 | 19.59 | 00.47 | 17.24 | 03.17 | 04.40 |
| 4  | 10.21 | 12.00 | 09.24 | 03.29 | 21.27 | 21.48 | 00.51 | 20.36 | 04.07 | 05.05 |
| 5  | 11.11 | 12.00 | 10.43 | 03.25 | 21.24 | 23.37 | 00.55 | 23.08 | 04.58 | 05.30 |
| 6  | 12.02 | 12.00 | 12.02 | 03.21 | 21.21 | 25.26 | 00.59 | 26.00 | 00.26 | 00.13 |
| 7  | 00.27 | 12.00 | 00.42 | 03.17 | 21.16 | 01.46 | 01.03 | 02.00 | 05.48 | 05.59 |
| 8  | 01.18 | 12.00 | 01.59 | 03.13 | 21.12 | 03.13 | 01.07 | 04.52 | 01.17 | 00.38 |
| 9  | 02.08 | 12.00 | 03.20 | 03.09 | 21.08 | 05.03 | 01.11 | 07.44 | 02.07 | 03.25 |
| 10 | 02.59 | 12.00 | 04.39 | 03.05 | 21.04 | 06.54 | 01.15 | 10.36 | 03.58 | 04.23 |
| 11 | 03.49 | 12.00 | 05.59 | 03.01 | 21.00 | 08.43 | 01.19 | 13.28 | 04.48 | 05.33 |
| 12 | 04.40 | 12.00 | 07.18 | 04.57 | 22.56 | 10.32 | 01.23 | 16.20 | 04.39 | 06.17 |
| 13 | 05.30 | 12.00 | 08.37 | 04.53 | 22.52 | 12.21 | 01.27 | 19.12 | 05.29 | 06.42 |
| 14 | 06.20 | 12.00 | 09.56 | 04.49 | 22.48 | 14.10 | 01.30 | 22.04 | 00.07 | 03.07 |
| 15 | 07.11 | 12.00 | 11.15 | 04.46 | 22.45 | 16.00 | 01.34 | 24.56 | 00.57 | 03.32 |
| 16 | 08.01 | 12.00 | 12.34 | 04.42 | 22.42 | 17.49 | 01.38 | 00.55 | 01.46 | 03.57 |
| 17 | 08.52 | 12.00 | 01.14 | 04.38 | 22.38 | 19.38 | 01.42 | 03.47 | 02.38 | 04.21 |
| 18 | 09.42 | 12.00 | 02.33 | 04.34 | 22.34 | 21.27 | 01.45 | 06.39 | 05.29 | 04.46 |
| 19 | 10.33 | 12.00 | 03.52 | 04.30 | 22.30 | 23.16 | 01.50 | 09.31 | 04.19 | 05.11 |
| 20 | 11.23 | 12.00 | 05.11 | 04.26 | 22.26 | 25.05 | 01.54 | 12.23 | 05.10 | 05.36 |
| 21 | 12.14 | 12.00 | 06.30 | 04.22 | 22.22 | 01.04 | 01.58 | 15.15 | 06.00 | 06.01 |
| 22 | 00.39 | 12.00 | 07.49 | 04.18 | 22.18 | 02.53 | 02.01 | 18.07 | 00.38 | 00.19 |
| 23 | 01.30 | 12.00 | 09.08 | 04.14 | 22.14 | 04.43 | 02.05 | 20.59 | 01.29 | 00.44 |
| 24 | 02.20 | 12.00 | 10.27 | 04.10 | 22.10 | 06.32 | 02.09 | 23.51 | 02.19 | 01.09 |
| 25 | 03.10 | 12.00 | 11.46 | 04.06 | 22.06 | 08.21 | 02.13 | 26.43 | 03.10 | 01.34 |
| 26 | 04.01 | 12.00 | 00.25 | 04.02 | 22.02 | 10.10 | 02.17 | 02.43 | 04.00 | 01.58 |
| 27 | 04.51 | 12.00 | 01.44 | 03.58 | 21.58 | 11.59 | 02.21 | 05.35 | 04.50 | 02.23 |
| 28 | 05.42 | 12.00 | 03.03 | 03.54 | 21.54 | 13.48 | 02.25 | 08.27 | 05.41 | 02.48 |
| 29 | 06.32 | 12.00 | 04.22 | 03.50 | 21.51 | 15.37 | 02.29 | 11.21 | 00.19 | 03.13 |
| 30 | 07.23 | 12.00 | 05.41 | 03.46 | 21.47 | 17.27 | 02.33 | 14.12 | 01.09 | 03.27 |
| 31 | 08.13 | 12.00 | 07.01 | 03.42 | 21.43 | 19.16 | 02.37 | 17.04 | 02.00 | 04.02 |

HEURES DES PLEINES MERS POTENTIELLES A GREENWICH  
TIMES OF POTENTIAL HIGH WATERS AT GREENWICH  
TABLE T<sub>m</sub>

AVRIL 1943

|    | M <sub>2</sub> | S <sub>2</sub> | N <sub>2</sub> | K <sub>2</sub> | K <sub>1</sub> | O <sub>1</sub> | P <sub>1</sub> | Q <sub>1</sub> | M.    | M.S.  |
|----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|-------|
| 1  | 09.00          | 12.00          | 10.01          | 11.46          | 17.48          | 25.06          | 06.35          | 01.04          | 02.48 | 04.25 |
| 2  | 09.50          | 12.00          | 11.20          | 11.42          | 17.44          | 01.06          | 06.39          | 03.57          | 03.39 | 04.50 |
| 3  | 10.41          | 12.00          | 11.59          | 11.38          | 17.40          | 02.55          | 06.43          | 06.49          | 04.29 | 05.15 |
| 4  | 11.31          | 12.00          | 01.38          | 11.34          | 17.36          | 04.44          | 06.47          | 09.39          | 05.20 | 05.39 |
| 5  | 12.22          | 12.00          | 02.37          | 11.31          | 17.33          | 06.33          | 06.51          | 12.33          | 06.10 | 06.04 |
| 6  | 00.47          | 12.00          | 03.56          | 11.27          | 17.29          | 08.22          | 06.55          | 15.25          | 00.87 | 00.23 |
| 7  | 01.37          | 12.00          | 05.15          | 11.23          | 17.25          | 10.12          | 06.59          | 18.17          | 01.38 | 00.48 |
| 8  | 02.28          | 12.00          | 06.34          | 11.19          | 17.21          | 12.01          | 07.03          | 21.09          | 02.28 | 01.12 |
| 9  | 03.18          | 12.00          | 07.53          | 11.15          | 17.17          | 13.50          | 07.07          | 24.01          | 03.19 | 01.37 |
| 10 | 04.09          | 12.00          | 09.12          | 11.11          | 17.13          | 15.39          | 07.10          | 00.01          | 04.09 | 02.02 |
| 11 | 04.59          | 12.00          | 10.31          | 11.07          | 17.09          | 17.28          | 07.14          | 02.53          | 05.00 | 02.27 |
| 12 | 05.50          | 12.00          | 11.50          | 11.03          | 17.05          | 19.17          | 07.18          | 05.45          | 05.50 | 02.52 |
| 13 | 06.40          | 12.00          | 00.30          | 10.59          | 17.01          | 21.06          | 07.21          | 08.37          | 00.28 | 03.16 |
| 14 | 07.31          | 12.00          | 01.49          | 10.55          | 16.57          | 22.56          | 07.24          | 11.29          | 01.19 | 03.41 |
| 15 | 08.21          | 12.00          | 03.08          | 10.51          | 16.53          | 24.43          | 07.28          | 14.21          | 02.09 | 04.06 |
| 16 | 09.12          | 12.00          | 04.27          | 10.48          | 16.49          | 00.44          | 07.32          | 17.13          | 03.00 | 04.31 |
| 17 | 10.02          | 12.00          | 05.46          | 10.44          | 16.45          | 02.33          | 07.36          | 20.05          | 03.50 | 04.56 |
| 18 | 10.53          | 12.00          | 07.05          | 10.40          | 16.41          | 04.22          | 07.41          | 22.57          | 04.41 | 05.20 |
| 19 | 11.43          | 12.00          | 08.24          | 10.36          | 16.37          | 06.11          | 07.45          | 25.50          | 05.31 | 05.45 |
| 20 | 00.09          | 12.00          | 09.43          | 10.32          | 16.33          | 08.00          | 07.49          | 01.50          | 00.09 | 00.04 |
| 21 | 00.59          | 12.00          | 11.02          | 10.28          | 16.29          | 09.49          | 07.53          | 04.42          | 00.59 | 00.28 |
| 22 | 01.50          | 12.00          | 12.21          | 10.24          | 16.25          | 11.39          | 07.57          | 07.33          | 01.50 | 00.52 |
| 23 | 02.40          | 12.00          | 01.00          | 10.20          | 16.21          | 13.28          | 08.01          | 10.25          | 02.40 | 01.17 |
| 24 | 03.30          | 12.00          | 02.19          | 10.16          | 16.17          | 15.17          | 08.05          | 13.17          | 03.31 | 01.42 |
| 25 | 04.21          | 12.00          | 03.38          | 10.12          | 16.13          | 17.06          | 08.09          | 16.09          | 04.21 | 02.07 |
| 26 | 05.11          | 12.00          | 04.57          | 10.08          | 16.09          | 18.55          | 08.13          | 19.01          | 05.12 | 02.32 |
| 27 | 06.02          | 12.00          | 06.16          | 10.04          | 16.05          | 20.44          | 08.17          | 21.53          | 06.02 | 02.54 |
| 28 | 06.52          | 12.00          | 07.35          | 10.00          | 16.01          | 22.34          | 08.21          | 24.45          | 00.40 | 03.21 |
| 29 | 07.43          | 12.00          | 08.54          | 09.56          | 15.97          | 24.23          | 08.25          | 00.45          | 01.31 | 03.46 |
| 30 | 08.33          | 12.00          | 10.14          | 09.53          | 15.94          | 00.23          | 08.29          | 03.38          | 02.21 | 04.12 |

HEURES DES PLEINES MERS POTENTIELLES A GREENWICH  
TIMES OF POTENTIAL HIGH WATERS AT GREENWICH  
TABLE T<sub>m</sub>

MARS 1943

|    | M <sub>2</sub> | S <sub>2</sub> | N <sub>2</sub> | K <sub>2</sub> | K <sub>1</sub> | O <sub>1</sub> | P <sub>1</sub> | Q <sub>1</sub> | M.    | M.S.  |
|----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|-------|
| 1  | 07.46          | 12.00          | 07.11          | 01.49          | 19.49          | 20.22          | 04.32          | 19.39          | 01.33 | 03.50 |
| 2  | 08.36          | 12.00          | 08.30          | 01.45          | 19.45          | 22.11          | 04.36          | 22.32          | 02.23 | 04.15 |
| 3  | 09.27          | 12.00          | 09.49          | 01.41          | 19.41          | 24.00          | 04.40          | 25.24          | 03.13 | 04.39 |
| 4  | 10.17          | 12.00          | 11.08          | 01.37          | 19.37          | 25.49          | 04.44          | 01.24          | 04.04 | 05.04 |
| 5  | 11.07          | 12.00          | 12.27          | 01.33          | 19.33          | 01.49          | 04.48          | 04.16          | 04.54 | 05.29 |
| 6  | 11.58          | 12.00          | 01.06          | 01.29          | 19.29          | 03.38          | 04.51          | 07.08          | 05.45 | 05.54 |
| 7  | 00.23          | 12.00          | 02.25          | 01.25          | 19.25          | 05.27          | 04.55          | 10.00          | 00.23 | 00.12 |
| 8  | 01.14          | 12.00          | 03.44          | 01.22          | 19.21          | 07.16          | 04.59          | 12.51          | 01.13 | 00.37 |
| 9  | 02.05          | 12.00          | 05.03          | 01.18          | 19.17          | 09.05          | 05.03          | 15.43          | 02.04 | 01.02 |
| 10 | 02.55          | 12.00          | 06.22          | 01.15          | 19.13          | 10.54          | 05.07          | 18.36          | 02.54 | 01.27 |
| 11 | 03.45          | 12.00          | 07.41          | 01.11          | 19.10          | 12.43          | 05.11          | 21.28          | 03.45 | 01.52 |
| 12 | 04.36          | 12.00          | 09.00          | 01.07          | 19.06          | 14.32          | 05.15          | 24.20          | 04.35 | 02.16 |
| 13 | 05.26          | 12.00          | 10.19          | 01.03          | 19.02          | 16.21          | 05.19          | 00.20          | 05.26 | 02.41 |
| 14 | 06.17          | 12.00          | 11.38          | 00.99          | 18.58          | 18.11          | 05.23          | 03.12          | 00.04 | 03.06 |
| 15 | 07.07          | 12.00          | 00.18          | 00.95          | 18.54          | 20.00          | 05.27          | 06.03          | 00.54 | 03.31 |
| 16 | 07.98          | 12.00          | 01.37          | 00.91          | 18.50          | 21.49          | 05.31          | 08.55          | 01.44 | 03.56 |
| 17 | 08.88          | 12.00          | 02.56          | 00.87          | 18.46          | 23.38          | 05.35          | 11.47          | 02.35 | 04.20 |
| 18 | 09.78          | 12.00          | 04.15          | 00.83          | 18.42          | 25.28          | 05.39          | 14.39          | 03.25 | 04.45 |
| 19 | 10.29          | 12.00          | 05.34          | 00.79          | 18.38          | 01.28          | 05.43          | 17.31          | 04.16 | 05.10 |
| 20 | 11.19          | 12.00          | 06.53          | 00.75          | 18.34          | 03.17          | 05.47          | 20.23          | 05.06 | 05.35 |
| 21 | 12.10          | 12.00          | 08.12          | 00.71          | 18.31          | 05.06          | 05.51          | 23.15          | 05.57 | 06.00 |
| 22 | 00.35          | 12.00          | 09.31          | 00.68          | 18.27          | 06.55          | 05.55          | 26.07          | 00.35 | 00.18 |
| 23 | 01.26          | 12.00          | 10.50          | 00.64          | 18.23          | 08.44          | 05.59          | 02.07          | 01.25 | 00.43 |
| 24 | 02.16          | 12.00          | 12.09          | 00.60          | 18.19          | 10.33          | 06.03          | 04.59          | 02.16 | 01.08 |
| 25 | 03.07          | 12.00          | 00.49          | 00.56          | 18.15          | 12.22          | 06.07          | 07.52          | 03.06 | 01.35 |
| 26 | 03.57          | 12.00          | 02.08          | 00.52          | 18.11          | 14.12          | 06.10          | 10.44          | 03.57 | 01.57 |
| 27 | 04.48          | 12.00          | 03.27          | 00.48          | 18.07          | 16.01          | 06.14          | 13.36          | 04.47 | 02.22 |
| 28 | 05.38          | 12.00          | 04.46          | 00.44          | 18.03          | 17.50          | 06.18          | 16.28          | 05.38 | 02.47 |
| 29 | 06.29          | 12.00          | 06.05          | 00.40          | 17.99          | 19.39          | 06.22          | 19.20          | 00.16 | 03.12 |
| 30 | 07.19          | 12.00          | 07.24          | 11.54          | 17.55          | 21.28          | 06.26          | 22.12          | 01.07 | 03.36 |
| 31 | 08.09          | 12.00          | 08.43          | 11.50          | 17.51          | 23.18          | 06.30          | 25.04          | 01.57 | 04.01 |

HEURES DES PLEINES MERS POTENTIELLES A GREENWICH  
TIMES OF POTENTIAL HIGH WATERS AT GREENWICH  
JUN 1943

|    | M <sub>2</sub> | S <sub>2</sub> | N <sub>2</sub> | K <sub>2</sub> | K <sub>1</sub> | O <sub>1</sub> | P <sub>1</sub> | Q <sub>1</sub> | M.    | M.S.  |
|----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|-------|
| 1  | 10.38          | 12.00          | 01.44          | 07.49          | 13.50          | 06.59          | 10.36          | 14.46          | 04.25 | 05.14 |
| 2  | 11.29          | 12.00          | 03.03          | 07.45          | 13.46          | 08.48          | 10.40          | 17.37          | 05.15 | 05.39 |
| 3  | 12.19          | 12.00          | 04.22          | 07.41          | 13.42          | 10.38          | 10.44          | 20.30          | 06.06 | 06.04 |
| 4  | 00.44          | 12.00          | 05.41          | 07.37          | 13.38          | 12.27          | 10.48          | 23.22          | 00.43 | 00.22 |
| 5  | 01.35          | 12.00          | 07.00          | 07.33          | 13.34          | 14.16          | 10.52          | 26.14          | 01.34 | 00.47 |
| 6  | 02.25          | 12.00          | 08.19          | 07.29          | 13.30          | 16.05          | 10.56          | 02.14          | 02.24 | 01.12 |
| 7  | 03.16          | 12.00          | 09.38          | 07.25          | 13.26          | 17.54          | 10.59          | 05.06          | 03.15 | 01.37 |
| 8  | 04.06          | 12.00          | 10.57          | 07.21          | 13.22          | 19.43          | 11.03          | 07.58          | 04.05 | 02.01 |
| 9  | 04.56          | 12.00          | 12.16          | 07.17          | 13.20          | 21.32          | 11.07          | 10.50          | 04.56 | 02.26 |
| 10 | 05.47          | 12.00          | 00.55          | 07.14          | 13.16          | 23.22          | 11.11          | 13.42          | 05.46 | 02.51 |
| 11 | 06.38          | 12.00          | 02.14          | 07.10          | 13.11          | 25.11          | 11.15          | 16.34          | 00.24 | 03.16 |
| 12 | 07.28          | 12.00          | 03.33          | 07.06          | 13.07          | 01.11          | 11.19          | 19.26          | 01.15 | 03.41 |
| 13 | 08.19          | 12.00          | 04.52          | 07.02          | 13.03          | 02.59          | 11.24          | 22.18          | 02.05 | 04.05 |
| 14 | 09.09          | 12.00          | 06.11          | 06.58          | 12.59          | 04.48          | 11.28          | 25.10          | 02.56 | 04.30 |
| 15 | 10.00          | 12.00          | 07.30          | 06.54          | 12.55          | 06.38          | 11.32          | 01.10          | 03.46 | 04.55 |
| 16 | 10.50          | 12.00          | 08.49          | 06.51          | 12.51          | 08.27          | 11.36          | 04.02          | 04.37 | 05.20 |
| 17 | 11.41          | 12.00          | 10.09          | 06.47          | 12.47          | 10.17          | 11.40          | 06.54          | 05.27 | 05.45 |
| 18 | 00.06          | 12.00          | 11.28          | 06.43          | 12.43          | 12.06          | 11.44          | 09.46          | 00.05 | 00.03 |
| 19 | 00.56          | 12.00          | 00.07          | 06.39          | 12.39          | 13.55          | 11.48          | 12.38          | 00.55 | 00.28 |
| 20 | 01.47          | 12.00          | 01.26          | 06.35          | 12.35          | 15.44          | 11.52          | 15.31          | 01.46 | 00.53 |
| 21 | 02.37          | 12.00          | 02.46          | 06.32          | 12.32          | 17.33          | 11.56          | 18.23          | 02.36 | 01.18 |
| 22 | 03.28          | 12.00          | 04.04          | 06.28          | 12.28          | 19.22          | 12.00          | 21.15          | 03.27 | 01.42 |
| 23 | 04.18          | 12.00          | 05.23          | 06.24          | 12.24          | 21.11          | 12.04          | 24.06          | 04.17 | 02.07 |
| 24 | 05.09          | 12.00          | 06.42          | 06.20          | 12.20          | 23.01          | 12.08          | 00.06          | 05.08 | 02.32 |
| 25 | 05.59          | 12.00          | 08.01          | 06.16          | 12.16          | 24.50          | 12.12          | 02.58          | 05.58 | 02.57 |
| 26 | 06.50          | 12.00          | 09.20          | 06.12          | 12.12          | 00.50          | 12.16          | 05.50          | 00.36 | 03.22 |
| 27 | 07.40          | 12.00          | 10.39          | 06.08          | 12.08          | 02.39          | 12.20          | 08.42          | 01.27 | 03.46 |
| 28 | 08.31          | 12.00          | 11.58          | 06.04          | 12.04          | 04.28          | 12.24          | 11.34          | 02.18 | 04.10 |
| 29 | 09.21          | 12.00          | 00.38          | 06.00          | 12.00          | 06.17          | 12.28          | 14.26          | 03.08 | 04.35 |
| 30 | 10.11          | 12.00          | 01.57          | 05.55          | 11.56          | 08.05          | 12.32          | 17.19          | 03.98 | 05.00 |

TABLE Tm

HEURES DES PLEINES MERS POTENTIELLES A GREENWICH  
TIMES OF POTENTIAL HIGH WATERS AT GREENWICH  
MAI 1943

|    | M <sub>2</sub> | S <sub>2</sub> | N <sub>2</sub> | K <sub>2</sub> | K <sub>1</sub> | O <sub>1</sub> | P <sub>1</sub> | Q <sub>1</sub> | M.    | M.S.  |
|----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|-------|
| 1  | 09.24          | 12.00          | 11.34          | 09.49          | 15.50          | 02.13          | 08.33          | 06.29          | 03.12 | 04.38 |
| 2  | 10.14          | 12.00          | 00.14          | 09.45          | 15.46          | 04.02          | 08.37          | 09.21          | 04.02 | 05.28 |
| 3  | 11.05          | 12.00          | 01.33          | 09.41          | 15.42          | 05.51          | 08.41          | 12.13          | 04.52 | 05.28 |
| 4  | 11.55          | 12.00          | 02.52          | 09.37          | 15.38          | 07.40          | 08.45          | 15.06          | 05.42 | 05.52 |
| 5  | 00.21          | 12.00          | 04.11          | 09.33          | 15.34          | 09.29          | 08.49          | 17.58          | 00.20 | 00.11 |
| 6  | 01.11          | 12.00          | 05.30          | 09.29          | 15.30          | 11.19          | 08.53          | 20.50          | 01.10 | 00.36 |
| 7  | 02.02          | 12.00          | 06.49          | 09.25          | 15.27          | 13.08          | 08.57          | 23.42          | 02.01 | 01.01 |
| 8  | 02.52          | 12.00          | 08.08          | 09.21          | 15.22          | 14.57          | 09.01          | 26.34          | 02.51 | 01.25 |
| 9  | 03.42          | 12.00          | 09.27          | 09.17          | 15.19          | 16.46          | 09.05          | 29.26          | 03.41 | 01.50 |
| 10 | 04.33          | 12.00          | 10.46          | 09.13          | 15.15          | 18.35          | 09.09          | 05.23          | 04.32 | 02.15 |
| 11 | 05.23          | 12.00          | 12.05          | 09.09          | 15.12          | 20.24          | 09.13          | 08.17          | 05.22 | 02.40 |
| 12 | 06.14          | 12.00          | 00.44          | 09.05          | 15.08          | 22.14          | 09.17          | 11.09          | 00.00 | 03.05 |
| 13 | 07.04          | 12.00          | 02.03          | 09.01          | 15.04          | 24.03          | 09.21          | 14.01          | 00.51 | 03.29 |
| 14 | 07.55          | 12.00          | 03.22          | 08.57          | 15.00          | 00.03          | 09.25          | 16.53          | 01.41 | 03.54 |
| 15 | 08.45          | 12.00          | 04.41          | 08.53          | 14.58          | 01.52          | 09.29          | 19.45          | 02.32 | 04.19 |
| 16 | 09.36          | 12.00          | 06.00          | 08.50          | 14.52          | 03.41          | 09.33          | 22.37          | 03.22 | 04.44 |
| 17 | 10.26          | 12.00          | 07.19          | 08.46          | 14.48          | 05.30          | 09.37          | 25.29          | 04.13 | 05.09 |
| 18 | 11.17          | 12.00          | 08.38          | 08.42          | 14.44          | 07.19          | 09.41          | 01.29          | 05.03 | 05.33 |
| 19 | 12.27          | 12.00          | 09.57          | 08.38          | 14.40          | 09.08          | 09.45          | 04.21          | 05.54 | 05.58 |
| 20 | 00.35          | 12.00          | 11.16          | 08.34          | 14.36          | 10.57          | 09.48          | 07.14          | 00.32 | 00.17 |
| 21 | 01.23          | 12.00          | 12.35          | 08.30          | 14.32          | 12.47          | 09.52          | 10.06          | 01.22 | 00.42 |
| 22 | 02.13          | 12.00          | 01.14          | 08.26          | 14.28          | 14.36          | 09.56          | 12.58          | 02.13 | 01.06 |
| 23 | 03.04          | 12.00          | 02.33          | 08.22          | 14.24          | 16.25          | 10.00          | 15.50          | 03.03 | 01.31 |
| 24 | 03.54          | 12.00          | 03.52          | 08.18          | 14.20          | 18.14          | 10.04          | 18.42          | 03.53 | 01.56 |
| 25 | 04.45          | 12.00          | 05.11          | 08.15          | 14.16          | 20.03          | 10.08          | 21.34          | 04.44 | 02.21 |
| 26 | 05.35          | 12.00          | 06.30          | 08.11          | 14.13          | 21.52          | 10.12          | 24.26          | 05.33 | 02.46 |
| 27 | 06.26          | 12.00          | 07.49          | 08.07          | 14.09          | 23.42          | 10.16          | 00.26          | 00.12 | 03.10 |
| 28 | 07.16          | 12.00          | 09.08          | 08.04          | 14.05          | 25.31          | 10.20          | 03.18          | 01.03 | 03.35 |
| 29 | 08.07          | 12.00          | 10.27          | 08.00          | 14.01          | 01.31          | 10.24          | 06.10          | 01.53 | 03.59 |
| 30 | 08.56          | 12.00          | 11.46          | 07.57          | 13.59          | 03.20          | 10.28          | 09.03          | 02.44 | 04.24 |
| 31 | 09.47          | 12.00          | 00.25          | 07.53          | 13.53          | 05.09          | 10.32          | 11.55          | 03.34 | 04.49 |

TABLE Tm

HEURES DES PLEINES MERS POTENTIELLES A GREENWICH  
TIMES OF POTENTIAL HIGH WATERS AT GREENWICH  
AOUT 1943  
TABLE T<sub>m</sub>

|    | M <sub>2</sub> | S <sub>2</sub> | N <sub>2</sub> | K <sub>2</sub> | K <sub>1</sub> | O <sub>1</sub> | P <sub>1</sub> | Q <sub>1</sub> | M <sub>1</sub> | M <sub>S</sub> |
|----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 1  | 12.16          | 12.00          | 06.07          | 03.50          | 09.51          | 14.38          | 14.37          | 01.39          | 06.03          | 06.02          |
| 2  | 00.41          | 12.00          | 07.26          | 03.46          | 09.47          | 16.27          | 14.41          | 04.36          | 00.41          | 00.20          |
| 3  | 01.31          | 12.00          | 08.45          | 03.42          | 09.43          | 18.16          | 14.45          | 07.23          | 01.32          | 00.45          |
| 4  | 02.22          | 12.00          | 10.04          | 03.38          | 09.39          | 20.05          | 14.49          | 10.16          | 02.22          | 01.10          |
| 5  | 03.12          | 12.00          | 11.23          | 03.34          | 09.35          | 21.54          | 14.53          | 13.08          | 03.12          | 01.35          |
| 6  | 04.03          | 12.00          | 00.03          | 03.30          | 09.31          | 23.43          | 14.57          | 16.00          | 04.03          | 02.00          |
| 7  | 04.53          | 12.00          | 01.22          | 03.26          | 09.27          | 25.33          | 15.01          | 18.52          | 04.53          | 02.24          |
| 8  | 05.44          | 12.00          | 02.41          | 03.22          | 09.23          | 27.23          | 15.05          | 21.44          | 05.44          | 02.49          |
| 9  | 06.34          | 12.00          | 04.00          | 03.18          | 09.19          | 29.12          | 15.09          | 24.36          | 06.34          | 03.14          |
| 10 | 07.25          | 12.00          | 05.19          | 03.14          | 09.15          | 31.01          | 15.13          | 27.28          | 07.25          | 03.39          |
| 11 | 08.15          | 12.00          | 06.38          | 03.11          | 09.11          | 32.90          | 15.17          | 30.20          | 08.15          | 04.04          |
| 12 | 09.06          | 12.00          | 07.57          | 03.07          | 09.09          | 34.79          | 15.21          | 33.12          | 09.06          | 04.28          |
| 13 | 09.56          | 12.00          | 09.16          | 03.05          | 09.05          | 36.68          | 15.25          | 36.04          | 09.56          | 04.53          |
| 14 | 10.47          | 12.00          | 10.35          | 03.03          | 09.01          | 38.57          | 15.29          | 38.96          | 10.47          | 05.18          |
| 15 | 11.37          | 12.00          | 11.54          | 02.55          | 08.57          | 40.46          | 15.33          | 41.88          | 11.37          | 05.43          |
| 16 | 00.02          | 12.00          | 00.33          | 02.51          | 08.53          | 42.35          | 15.37          | 44.80          | 00.02          | 06.08          |
| 17 | 00.53          | 12.00          | 01.52          | 02.47          | 08.49          | 44.24          | 15.41          | 47.72          | 00.53          | 06.33          |
| 18 | 01.43          | 12.00          | 03.11          | 02.43          | 08.45          | 46.13          | 15.45          | 50.64          | 01.43          | 06.58          |
| 19 | 02.34          | 12.00          | 04.30          | 02.39          | 08.41          | 48.02          | 15.49          | 53.56          | 02.34          | 07.13          |
| 20 | 03.24          | 12.00          | 05.49          | 02.35          | 08.37          | 49.91          | 15.52          | 56.48          | 03.24          | 07.38          |
| 21 | 04.15          | 12.00          | 07.08          | 02.31          | 08.33          | 51.80          | 15.56          | 59.40          | 04.15          | 07.63          |
| 22 | 05.05          | 12.00          | 08.27          | 02.27          | 08.29          | 53.69          | 16.00          | 62.32          | 05.05          | 07.88          |
| 23 | 05.56          | 12.00          | 09.46          | 02.23          | 08.26          | 55.58          | 16.04          | 65.24          | 05.56          | 08.13          |
| 24 | 06.46          | 12.00          | 11.05          | 02.19          | 08.22          | 57.47          | 16.08          | 68.16          | 06.46          | 08.38          |
| 25 | 07.37          | 12.00          | 12.24          | 02.15          | 08.18          | 59.36          | 16.12          | 71.08          | 07.37          | 08.63          |
| 26 | 08.27          | 12.00          | 01.03          | 02.12          | 08.15          | 61.25          | 16.16          | 74.00          | 08.27          | 08.88          |
| 27 | 09.17          | 12.00          | 02.22          | 02.08          | 08.11          | 63.14          | 16.20          | 76.92          | 09.17          | 09.13          |
| 28 | 10.08          | 12.00          | 03.41          | 02.04          | 08.07          | 65.03          | 16.24          | 79.84          | 10.08          | 09.38          |
| 29 | 10.98          | 12.00          | 05.00          | 02.00          | 08.03          | 66.92          | 16.28          | 82.76          | 10.98          | 09.63          |
| 30 | 11.48          | 12.00          | 06.19          | 01.56          | 07.59          | 68.81          | 16.32          | 85.68          | 11.48          | 09.88          |
| 31 | 00.13          | 12.00          | 07.38          | 01.52          | 07.55          | 70.70          | 16.36          | 88.60          | 00.13          | 00.13          |

HEURES DES PLEINES MERS POTENTIELLES A GREENWICH  
TIMES OF POTENTIAL HIGH WATERS AT GREENWICH  
JULLET 1943  
TABLE T<sub>m</sub>

|    | M <sub>2</sub> | S <sub>2</sub> | N <sub>2</sub> | K <sub>2</sub> | K <sub>1</sub> | O <sub>1</sub> | P <sub>1</sub> | Q <sub>1</sub> | M <sub>1</sub> | M <sub>S</sub> |
|----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 1  | 11.01          | 12.00          | 03.16          | 05.51          | 11.52          | 09.54          | 12.35          | 20.11          | 04.49          | 05.25          |
| 2  | 11.52          | 12.00          | 04.35          | 05.47          | 11.48          | 11.43          | 12.39          | 23.03          | 05.39          | 05.50          |
| 3  | 00.17          | 12.00          | 05.54          | 05.43          | 11.44          | 13.32          | 12.43          | 25.55          | 00.17          | 00.08          |
| 4  | 01.07          | 12.00          | 07.13          | 05.39          | 11.40          | 15.21          | 12.47          | 01.55          | 01.07          | 00.33          |
| 5  | 01.58          | 12.00          | 08.32          | 05.35          | 11.36          | 17.10          | 12.51          | 04.47          | 01.58          | 00.58          |
| 6  | 02.48          | 12.00          | 09.51          | 05.31          | 11.33          | 18.59          | 12.55          | 07.39          | 02.48          | 01.23          |
| 7  | 03.39          | 12.00          | 11.10          | 05.27          | 11.29          | 20.49          | 12.59          | 10.31          | 03.39          | 01.47          |
| 8  | 04.29          | 12.00          | 12.29          | 05.24          | 11.25          | 22.38          | 13.03          | 13.23          | 04.29          | 02.12          |
| 9  | 05.20          | 12.00          | 01.08          | 05.20          | 11.21          | 24.27          | 13.07          | 16.15          | 05.20          | 02.37          |
| 10 | 06.10          | 12.00          | 02.27          | 05.18          | 11.17          | 00.27          | 13.11          | 19.08          | 06.10          | 03.02          |
| 11 | 07.01          | 12.00          | 03.46          | 05.14          | 11.12          | 02.16          | 13.15          | 22.00          | 07.01          | 03.27          |
| 12 | 07.51          | 12.00          | 05.05          | 05.10          | 11.08          | 04.05          | 13.19          | 24.52          | 07.51          | 03.51          |
| 13 | 08.42          | 12.00          | 06.24          | 05.06          | 11.04          | 05.54          | 13.23          | 00.52          | 08.42          | 04.16          |
| 14 | 09.32          | 12.00          | 07.43          | 05.02          | 11.00          | 07.44          | 13.27          | 03.44          | 09.32          | 04.41          |
| 15 | 00.23          | 12.00          | 09.02          | 04.98          | 10.56          | 09.33          | 13.30          | 06.36          | 00.23          | 05.06          |
| 16 | 11.13          | 12.00          | 10.21          | 04.94          | 10.52          | 11.22          | 13.34          | 09.28          | 11.13          | 05.31          |
| 17 | 12.04          | 12.00          | 11.40          | 04.90          | 10.49          | 13.11          | 13.38          | 12.20          | 12.04          | 05.55          |
| 18 | 00.29          | 12.00          | 00.20          | 04.86          | 10.45          | 15.10          | 13.42          | 15.12          | 00.29          | 06.14          |
| 19 | 01.19          | 12.00          | 01.39          | 04.80          | 10.41          | 16.49          | 13.46          | 18.04          | 01.19          | 06.39          |
| 20 | 02.10          | 12.00          | 02.59          | 04.76          | 10.37          | 18.38          | 13.50          | 20.56          | 02.10          | 01.04          |
| 21 | 03.00          | 12.00          | 04.18          | 04.73          | 10.34          | 20.26          | 13.54          | 23.49          | 03.00          | 01.28          |
| 22 | 03.51          | 12.00          | 05.37          | 04.69          | 10.29          | 22.15          | 13.58          | 26.41          | 03.51          | 01.53          |
| 23 | 04.41          | 12.00          | 06.56          | 04.65          | 10.26          | 24.04          | 14.02          | 02.41          | 04.41          | 02.18          |
| 24 | 05.32          | 12.00          | 08.15          | 04.61          | 10.22          | 00.04          | 14.07          | 05.33          | 05.32          | 02.43          |
| 25 | 06.22          | 12.00          | 09.34          | 04.57          | 10.18          | 01.53          | 14.11          | 08.25          | 06.22          | 03.08          |
| 26 | 07.13          | 12.00          | 10.53          | 04.53          | 10.14          | 03.43          | 14.15          | 11.18          | 07.13          | 03.32          |
| 27 | 08.03          | 12.00          | 12.12          | 04.09          | 10.10          | 05.32          | 14.19          | 14.10          | 08.03          | 03.57          |
| 28 | 08.54          | 12.00          | 00.51          | 04.05          | 10.06          | 07.21          | 14.23          | 17.02          | 08.54          | 04.23          |
| 29 | 09.44          | 12.00          | 02.10          | 04.01          | 10.02          | 09.10          | 14.27          | 19.54          | 09.44          | 04.47          |
| 30 | 10.35          | 12.00          | 03.29          | 03.97          | 09.59          | 10.59          | 14.31          | 22.46          | 10.35          | 04.72          |
| 31 | 11.25          | 12.00          | 04.48          | 03.94          | 09.55          | 12.48          | 14.34          | 25.39          | 11.25          | 05.37          |

HEURES DES PLEINES MERS POTENTIELLES A GREENWICH  
TIMES OF POTENTIAL HIGH WATERS AT GREENWICH

OCTOBRE 1943  
TABLE T<sub>m</sub>

|    | M <sub>2</sub> | S <sub>2</sub> | N <sub>2</sub> | K <sub>2</sub> | K <sub>1</sub> | O <sub>1</sub> | P <sub>1</sub> | Q <sub>1</sub> | M <sub>1</sub> | M.S.  |
|----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|
| 1  | 01.28          | 12.00          | 10.28          | 11.50          | 05.54          | 22.17          | 18.38          | 15.22          | 01.29          | 00.44 |
| 2  | 02.18          | 12.00          | 11.47          | 11.46          | 05.50          | 24.06          | 18.42          | 18.15          | 02.19          | 01.09 |
| 3  | 03.09          | 12.00          | 00.27          | 11.42          | 05.46          | 01.06          | 18.46          | 21.07          | 03.10          | 01.33 |
| 4  | 03.59          | 12.00          | 01.46          | 11.38          | 05.42          | 00.55          | 18.50          | 23.59          | 04.00          | 01.58 |
| 5  | 04.50          | 12.00          | 03.05          | 11.34          | 05.38          | 03.45          | 18.54          | 26.51          | 04.51          | 02.23 |
| 6  | 05.40          | 12.00          | 04.24          | 11.30          | 05.34          | 05.34          | 18.58          | 02.51          | 05.41          | 02.48 |
| 7  | 06.31          | 12.00          | 05.43          | 11.26          | 05.31          | 07.23          | 19.02          | 03.46          | 06.19          | 03.13 |
| 8  | 07.21          | 12.00          | 07.02          | 11.22          | 05.27          | 09.12          | 19.06          | 08.55          | 07.10          | 03.38 |
| 9  | 08.12          | 12.00          | 08.21          | 11.18          | 05.23          | 11.01          | 19.10          | 11.26          | 08.00          | 04.02 |
| 10 | 09.02          | 12.00          | 09.40          | 11.14          | 05.19          | 12.50          | 19.14          | 14.12          | 08.50          | 04.27 |
| 11 | 09.53          | 12.00          | 10.59          | 11.10          | 05.15          | 14.39          | 19.18          | 17.11          | 03.41          | 04.52 |
| 12 | 10.43          | 12.00          | 12.18          | 11.06          | 05.11          | 16.29          | 19.22          | 20.03          | 04.51          | 05.17 |
| 13 | 11.34          | 12.00          | 00.57          | 11.02          | 05.07          | 18.18          | 19.26          | 22.55          | 05.22          | 05.41 |
| 14 | 12.24          | 12.00          | 02.16          | 10.98          | 05.03          | 20.07          | 19.29          | 25.47          | 06.00          | 06.00 |
| 15 | 00.49          | 12.00          | 03.35          | 10.95          | 04.99          | 21.56          | 19.33          | 01.47          | 06.50          | 06.25 |
| 16 | 01.40          | 12.00          | 04.54          | 10.92          | 04.95          | 23.47          | 19.37          | 04.39          | 01.41          | 06.50 |
| 17 | 02.30          | 12.00          | 06.14          | 10.88          | 04.92          | 25.36          | 19.41          | 07.31          | 02.31          | 01.14 |
| 18 | 03.21          | 12.00          | 07.33          | 10.84          | 04.88          | 01.36          | 19.45          | 10.23          | 03.22          | 01.39 |
| 19 | 04.11          | 12.00          | 08.52          | 10.80          | 04.84          | 03.25          | 19.49          | 13.15          | 04.12          | 02.04 |
| 20 | 05.02          | 12.00          | 10.11          | 10.76          | 04.80          | 05.14          | 19.53          | 16.07          | 05.03          | 02.29 |
| 21 | 05.52          | 12.00          | 11.30          | 10.72          | 04.76          | 07.04          | 19.57          | 18.99          | 05.53          | 02.54 |
| 22 | 06.43          | 12.00          | 00.09          | 10.68          | 04.72          | 08.53          | 20.01          | 21.51          | 06.31          | 03.18 |
| 23 | 07.33          | 12.00          | 01.28          | 10.64          | 04.68          | 10.42          | 20.05          | 24.43          | 07.21          | 03.43 |
| 24 | 08.24          | 12.00          | 02.47          | 10.60          | 04.64          | 12.31          | 20.09          | 00.45          | 08.12          | 04.08 |
| 25 | 09.15          | 12.00          | 04.06          | 10.57          | 04.60          | 14.20          | 20.13          | 03.35          | 09.02          | 04.33 |
| 26 | 10.05          | 12.00          | 05.25          | 10.52          | 04.56          | 16.09          | 20.17          | 06.28          | 03.33          | 04.58 |
| 27 | 10.55          | 12.00          | 06.44          | 10.48          | 04.52          | 17.59          | 20.21          | 09.20          | 04.43          | 05.22 |
| 28 | 11.45          | 12.00          | 08.03          | 10.44          | 04.48          | 19.48          | 20.25          | 12.12          | 05.34          | 05.47 |
| 29 | 00.11          | 12.00          | 09.22          | 10.40          | 04.44          | 21.37          | 20.29          | 15.04          | 06.12          | 06.06 |
| 30 | 01.02          | 12.00          | 10.41          | 09.97          | 04.40          | 23.26          | 20.33          | 17.56          | 01.02          | 06.30 |
| 31 | 01.53          | 12.00          | 12.00          | 09.53          | 03.56          | 25.16          | 20.37          | 20.46          | 01.52          | 06.55 |

HEURES DES PLEINES MERS POTENTIELLES A GREENWICH  
TIMES OF POTENTIAL HIGH WATERS AT GREENWICH

SEPTEMBRE 1943  
TABLE T<sub>m</sub>

|    | M <sub>2</sub> | S <sub>2</sub> | N <sub>2</sub> | K <sub>2</sub> | K <sub>1</sub> | O <sub>1</sub> | P <sub>1</sub> | Q <sub>1</sub> | M <sub>1</sub> | M.S.  |
|----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|
| 1  | 01.05          | 12.00          | 08.56          | 01.50          | 07.51          | 19.22          | 16.40          | 09.56          | 01.04          | 00.13 |
| 2  | 01.55          | 12.00          | 10.15          | 01.46          | 07.47          | 21.11          | 16.44          | 12.48          | 01.54          | 00.58 |
| 3  | 02.46          | 12.00          | 11.34          | 01.42          | 07.43          | 23.00          | 16.48          | 15.41          | 02.45          | 01.23 |
| 4  | 03.36          | 12.00          | 01.38          | 01.38          | 07.39          | 24.49          | 16.52          | 18.33          | 03.35          | 01.48 |
| 5  | 04.27          | 12.00          | 01.33          | 01.34          | 07.35          | 00.49          | 16.56          | 21.25          | 04.26          | 02.12 |
| 6  | 05.17          | 12.00          | 02.52          | 01.30          | 07.31          | 02.38          | 17.00          | 24.17          | 05.16          | 02.37 |
| 7  | 06.08          | 12.00          | 04.11          | 01.26          | 07.27          | 04.27          | 17.03          | 00.17          | 06.07          | 03.02 |
| 8  | 06.58          | 12.00          | 05.30          | 01.22          | 07.23          | 06.16          | 17.07          | 03.09          | 06.44          | 03.27 |
| 9  | 07.49          | 12.00          | 06.49          | 01.18          | 07.20          | 08.05          | 17.11          | 06.01          | 01.35          | 03.52 |
| 10 | 08.39          | 12.00          | 08.08          | 01.14          | 07.16          | 09.55          | 17.15          | 08.54          | 02.25          | 04.16 |
| 11 | 09.29          | 12.00          | 09.27          | 01.10          | 07.12          | 11.44          | 17.19          | 11.44          | 03.16          | 04.41 |
| 12 | 10.20          | 12.00          | 10.46          | 01.06          | 07.08          | 13.33          | 17.23          | 14.36          | 04.06          | 05.06 |
| 13 | 11.11          | 12.00          | 12.05          | 01.02          | 07.04          | 15.22          | 17.27          | 17.28          | 04.57          | 05.51 |
| 14 | 12.01          | 12.00          | 00.44          | 00.98          | 07.00          | 17.11          | 17.31          | 20.20          | 05.47          | 05.56 |
| 15 | 00.26          | 12.00          | 02.03          | 00.94          | 06.96          | 19.01          | 17.35          | 23.12          | 06.25          | 06.14 |
| 16 | 01.17          | 12.00          | 03.22          | 00.90          | 06.92          | 20.52          | 17.39          | 26.04          | 01.16          | 06.39 |
| 17 | 02.07          | 12.00          | 04.41          | 00.86          | 06.88          | 22.39          | 17.43          | 02.04          | 02.06          | 06.04 |
| 18 | 02.58          | 12.00          | 06.01          | 00.82          | 06.84          | 24.28          | 17.47          | 04.56          | 02.57          | 06.29 |
| 19 | 03.48          | 12.00          | 07.20          | 00.78          | 06.80          | 00.28          | 17.51          | 07.48          | 03.47          | 06.33 |
| 20 | 04.39          | 12.00          | 08.39          | 00.74          | 06.76          | 02.17          | 17.55          | 10.40          | 04.37          | 06.18 |
| 21 | 05.29          | 12.00          | 09.58          | 00.70          | 06.72          | 04.06          | 17.59          | 13.32          | 05.28          | 06.43 |
| 22 | 06.20          | 12.00          | 11.17          | 00.66          | 06.68          | 05.56          | 18.03          | 16.25          | 06.06          | 03.08 |
| 23 | 07.10          | 12.00          | 12.36          | 00.62          | 06.64          | 07.45          | 18.07          | 19.17          | 06.56          | 03.33 |
| 24 | 08.00          | 12.00          | 01.15          | 00.58          | 06.60          | 09.34          | 18.11          | 22.09          | 01.47          | 03.57 |
| 25 | 08.51          | 12.00          | 02.34          | 00.54          | 06.56          | 11.23          | 18.15          | 25.01          | 02.37          | 04.22 |
| 26 | 09.41          | 12.00          | 03.53          | 00.50          | 06.52          | 13.12          | 18.19          | 01.01          | 03.28          | 04.47 |
| 27 | 10.32          | 12.00          | 05.12          | 00.46          | 06.48          | 15.01          | 18.22          | 03.54          | 04.18          | 05.12 |
| 28 | 11.22          | 12.00          | 06.31          | 00.42          | 06.44          | 16.51          | 18.26          | 06.46          | 05.09          | 05.36 |
| 29 | 12.13          | 12.00          | 07.50          | 11.38          | 06.40          | 18.40          | 18.30          | 09.58          | 05.59          | 06.01 |
| 30 | 00.38          | 12.00          | 09.09          | 11.54          | 05.58          | 20.29          | 18.34          | 12.50          | 06.37          | 06.19 |

HEURES DES PLEINES MERS POTENTIELLES A GREENWICH  
TIMES OF POTENTIAL HIGH WATERS AT GREENWICH  
DECEMBRE 1943 TABLE Tm

|    | M.    | S.    | N.    | K.    | K.    | O.    | P.    | Q.    | M.    | MS.   |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1  | 03.06 | 12.00 | 02.11 | 07.52 | 01.55 | 04.10 | 22.40 | 02.13 | 03.06 | 01.32 |
| 2  | 03.56 | 12.00 | 03.30 | 07.48 | 01.51 | 05.59 | 22.44 | 05.05 | 03.56 | 01.57 |
| 3  | 04.47 | 12.00 | 04.49 | 07.44 | 01.47 | 07.48 | 22.48 | 07.57 | 04.47 | 02.21 |
| 4  | 05.37 | 12.00 | 06.08 | 07.40 | 01.43 | 09.37 | 22.52 | 10.49 | 05.37 | 02.46 |
| 5  | 06.28 | 12.00 | 07.27 | 07.46 | 01.39 | 11.26 | 22.56 | 13.40 | 06.28 | 03.11 |
| 6  | 07.18 | 12.00 | 08.46 | 07.32 | 01.36 | 13.16 | 23.00 | 16.33 | 07.18 | 03.36 |
| 7  | 08.08 | 12.00 | 10.05 | 07.28 | 01.32 | 15.05 | 23.03 | 19.25 | 08.08 | 04.01 |
| 8  | 08.59 | 12.00 | 11.24 | 07.25 | 01.28 | 16.54 | 23.07 | 22.17 | 08.59 | 04.25 |
| 9  | 09.49 | 12.00 | 00.04 | 07.21 | 01.25 | 18.43 | 23.11 | 25.09 | 09.49 | 04.50 |
| 10 | 10.40 | 12.00 | 01.23 | 07.17 | 01.21 | 20.32 | 23.15 | 01.09 | 10.40 | 05.15 |
| 11 | 11.30 | 12.00 | 02.42 | 07.13 | 01.17 | 22.20 | 23.19 | 04.01 | 11.30 | 05.40 |
| 12 | 12.21 | 12.00 | 04.01 | 07.09 | 01.13 | 24.09 | 23.23 | 06.53 | 12.21 | 06.05 |
| 13 | 00.46 | 12.00 | 05.20 | 07.05 | 01.12 | 00.09 | 23.27 | 09.44 | 00.46 | 00.23 |
| 14 | 01.36 | 12.00 | 06.39 | 07.02 | 01.08 | 01.59 | 23.31 | 12.36 | 01.36 | 00.48 |
| 15 | 02.27 | 12.00 | 07.58 | 06.58 | 01.04 | 03.49 | 23.35 | 15.28 | 02.27 | 01.13 |
| 16 | 03.17 | 12.00 | 09.17 | 06.54 | 01.01 | 05.37 | 23.39 | 18.20 | 03.17 | 01.32 |
| 17 | 04.08 | 12.00 | 10.36 | 06.50 | 00.57 | 07.26 | 23.43 | 21.12 | 04.08 | 02.02 |
| 18 | 04.58 | 12.00 | 11.55 | 06.46 | 00.54 | 09.15 | 23.47 | 24.04 | 04.58 | 02.27 |
| 19 | 05.49 | 12.00 | 00.35 | 06.42 | 00.50 | 11.04 | 23.51 | 00.04 | 05.49 | 02.52 |
| 20 | 06.39 | 12.00 | 01.54 | 06.39 | 00.46 | 12.53 | 23.55 | 02.56 | 06.39 | 03.17 |
| 21 | 07.30 | 12.00 | 03.13 | 06.35 | 00.42 | 14.42 | 23.59 | 05.48 | 07.30 | 03.42 |
| 22 | 08.20 | 12.00 | 04.32 | 06.31 | 00.38 | 16.32 | 24.03 | 08.40 | 08.20 | 04.06 |
| 23 | 09.11 | 12.00 | 05.51 | 06.28 | 00.35 | 18.21 | 00.03 | 11.32 | 09.11 | 04.31 |
| 24 | 10.01 | 12.00 | 07.10 | 06.24 | 00.31 | 20.10 | 00.07 | 14.24 | 10.01 | 04.56 |
| 25 | 10.52 | 12.00 | 08.29 | 06.20 | 00.27 | 22.59 | 00.11 | 17.15 | 10.52 | 05.21 |
| 26 | 11.42 | 12.00 | 09.48 | 06.16 | 00.23 | 23.48 | 00.15 | 20.09 | 11.42 | 05.46 |
| 27 | 00.58 | 12.00 | 11.07 | 06.13 | 00.19 | 25.37 | 00.19 | 23.01 | 00.58 | 00.04 |
| 28 | 00.58 | 12.00 | 12.26 | 06.09 | 00.15 | 01.37 | 00.22 | 25.32 | 00.58 | 00.29 |
| 29 | 01.49 | 12.00 | 10.05 | 06.06 | 00.11 | 03.26 | 00.26 | 01.52 | 01.49 | 00.53 |
| 30 | 02.39 | 12.00 | 02.24 | 06.03 | 00.07 | 05.14 | 00.30 | 04.44 | 02.39 | 01.18 |
| 31 | 03.29 | 12.00 | 03.43 | 05.99 | 00.04 | 07.02 | 00.34 | 07.55 | 03.29 | 01.43 |
| 32 | 04.20 | 12.00 | 05.02 | 05.96 | 00.00 | 08.46 | 00.38 | 10.23 | 04.20 | 02.08 |

HEURES DES PLEINES MERS POTENTIELLES A GREENWICH  
TIMES OF POTENTIAL HIGH WATERS AT GREENWICH  
NOVEMBRE 1943 TABLE Tm

|    | M.    | S.    | N.    | K.    | K.    | O.    | P.    | Q.    | M.    | MS.   |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1  | 02.43 | 12.00 | 00.40 | 09.49 | 05.52 | 01.15 | 20.40 | 23.40 | 02.42 | 01.20 |
| 2  | 03.34 | 12.00 | 01.59 | 09.45 | 05.48 | 03.04 | 20.44 | 26.33 | 03.33 | 01.45 |
| 3  | 04.24 | 12.00 | 03.18 | 09.41 | 05.44 | 04.54 | 20.48 | 02.33 | 04.23 | 02.10 |
| 4  | 05.15 | 12.00 | 04.37 | 09.37 | 05.40 | 06.43 | 20.52 | 05.25 | 05.14 | 02.34 |
| 5  | 06.06 | 12.00 | 05.56 | 09.33 | 05.36 | 08.32 | 20.56 | 08.17 | 06.04 | 02.59 |
| 6  | 06.56 | 12.00 | 07.15 | 09.29 | 05.32 | 10.21 | 21.00 | 11.09 | 06.42 | 03.24 |
| 7  | 07.47 | 12.00 | 08.34 | 09.25 | 05.28 | 12.10 | 21.04 | 14.01 | 07.32 | 03.49 |
| 8  | 08.37 | 12.00 | 09.53 | 09.21 | 05.25 | 13.58 | 21.08 | 16.53 | 08.23 | 04.14 |
| 9  | 09.28 | 12.00 | 11.12 | 09.17 | 05.21 | 15.48 | 21.12 | 19.49 | 09.13 | 04.38 |
| 10 | 10.18 | 12.00 | 12.31 | 09.13 | 05.17 | 17.37 | 21.16 | 22.38 | 04.04 | 05.03 |
| 11 | 11.09 | 12.00 | 01.10 | 09.10 | 05.13 | 19.26 | 21.20 | 25.30 | 04.54 | 05.28 |
| 12 | 11.59 | 12.00 | 02.29 | 09.06 | 05.09 | 21.15 | 21.24 | 01.30 | 05.45 | 05.53 |
| 13 | 00.25 | 12.00 | 03.48 | 09.02 | 05.05 | 23.04 | 21.28 | 04.22 | 00.23 | 00.11 |
| 14 | 01.15 | 12.00 | 05.07 | 08.58 | 05.01 | 24.53 | 21.32 | 07.14 | 01.13 | 00.36 |
| 15 | 02.06 | 12.00 | 06.26 | 08.54 | 04.57 | 00.53 | 21.36 | 10.05 | 02.04 | 01.01 |
| 16 | 02.56 | 12.00 | 07.45 | 08.50 | 04.52 | 02.42 | 21.40 | 12.56 | 02.54 | 01.26 |
| 17 | 03.47 | 12.00 | 09.04 | 08.46 | 04.48 | 04.32 | 21.44 | 15.48 | 03.45 | 01.51 |
| 18 | 04.37 | 12.00 | 10.23 | 08.42 | 04.45 | 06.21 | 21.48 | 18.40 | 04.35 | 02.15 |
| 19 | 05.27 | 12.00 | 11.42 | 08.38 | 04.41 | 08.10 | 21.52 | 21.32 | 05.25 | 02.40 |
| 20 | 06.18 | 12.00 | 00.21 | 08.34 | 04.37 | 09.59 | 21.56 | 24.24 | 00.03 | 03.05 |
| 21 | 07.08 | 12.00 | 01.40 | 08.30 | 04.33 | 11.48 | 21.59 | 00.24 | 00.54 | 03.30 |
| 22 | 07.59 | 12.00 | 02.59 | 08.26 | 04.29 | 13.37 | 22.03 | 03.16 | 01.44 | 03.55 |
| 23 | 08.49 | 12.00 | 04.18 | 08.22 | 04.25 | 15.26 | 22.07 | 06.08 | 02.35 | 04.19 |
| 24 | 09.40 | 12.00 | 05.37 | 08.19 | 04.21 | 17.16 | 22.11 | 09.00 | 03.25 | 04.44 |
| 25 | 10.30 | 12.00 | 06.56 | 08.15 | 04.17 | 19.05 | 22.15 | 11.52 | 04.16 | 05.09 |
| 26 | 11.21 | 12.00 | 08.15 | 08.12 | 04.14 | 20.54 | 22.19 | 14.44 | 05.06 | 05.34 |
| 27 | 12.11 | 12.00 | 09.34 | 08.08 | 04.10 | 22.43 | 22.23 | 17.36 | 05.56 | 05.59 |
| 28 | 00.37 | 12.00 | 10.53 | 08.04 | 04.06 | 24.32 | 22.27 | 20.28 | 00.35 | 00.17 |
| 29 | 01.27 | 12.00 | 12.12 | 08.00 | 04.02 | 00.22 | 22.31 | 23.20 | 01.25 | 00.42 |
| 30 | 02.16 | 12.00 | 00.52 | 07.56 | 03.58 | 02.21 | 22.35 | 26.13 | 02.15 | 01.07 |