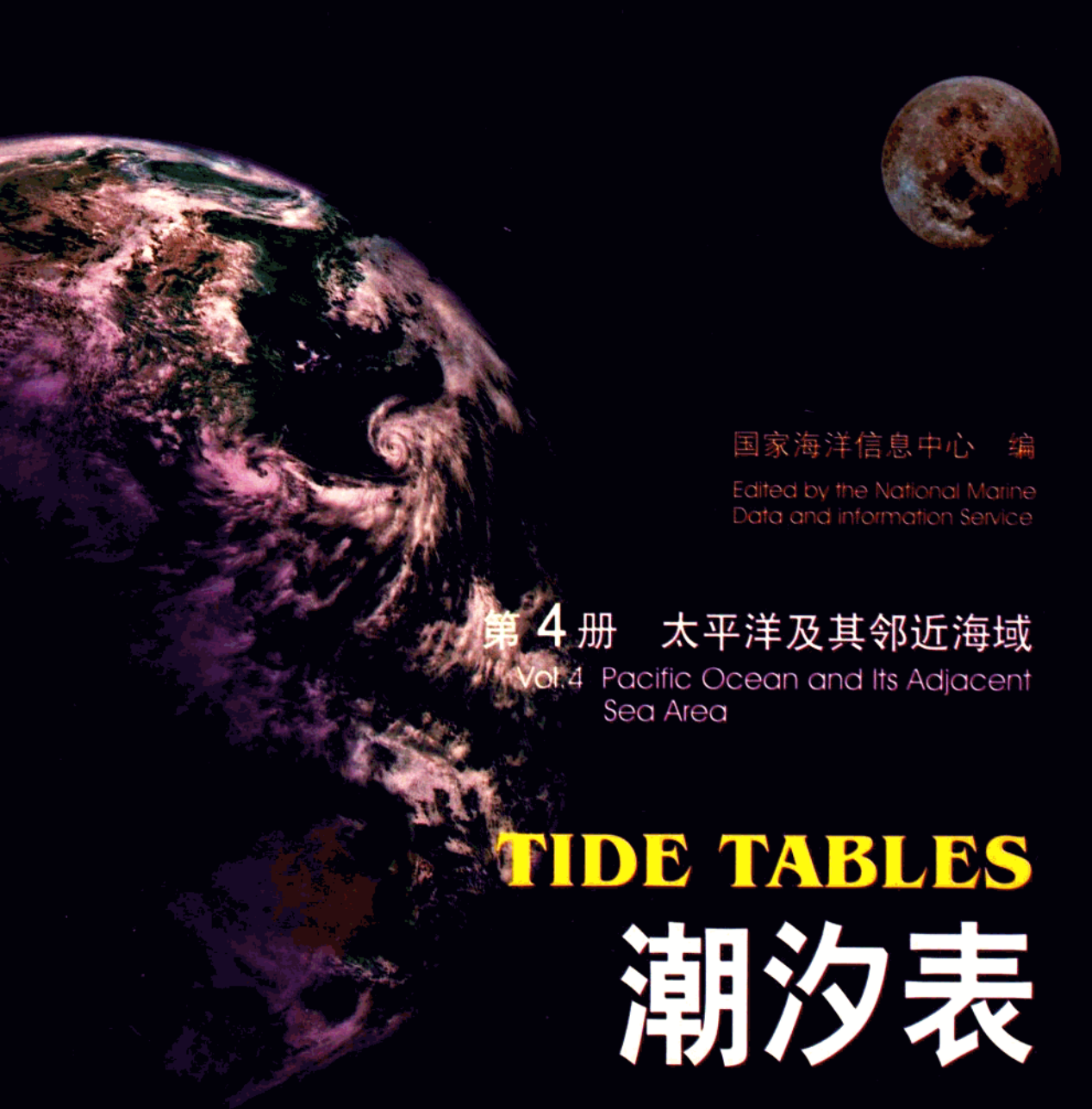




国家海洋信息中心 编

Edited by the National Marine  
Data and Information Service

## 第4册 太平洋及其邻近海域

Vol.4 Pacific Ocean and Its Adjacent  
Sea Area

# TIDE TABLES

# 潮汐表

# 2003



山东省地图出版社

Shandong Cartographic  
Publishing House

# 说 明

国家海洋信息中心编制、山东省地图出版社出版的《潮汐表》，共六册，分为中国沿岸三册和世界大洋区域三册。

## 中国沿岸

第1册：鸭绿江口至长江口

第2册：长江口至台湾海峡

第3册：台湾海峡至北部湾

## 世界大洋区域

第4册：太平洋及其邻近海域

第5册：印度洋沿岸(含地中海)及欧洲水域

第6册：大西洋沿岸及非洲东海岸

## 内 容

包括三部分：第一部分是主港的每日逐时潮高和高(低)潮潮时、潮高预报，或只刊载每日高(低)潮潮时、潮高预报；第二部分是潮流预报站点的每日潮流预报(第2、6两册不含此项内容)；第三部分是附属港有关资料，主要内容是附属港同某一个主港之间的潮时差、潮差比和改正数。为了帮助用户了解港口的潮汐状况，还同时列出了每个港口的潮汐特征数据。

除此之外，还有一些与潮汐表结合使用的专用图表。

## 主 港

潮汐表中刊载每日潮汐发生时间和高度的港口称为主港。所选的主港通常是重要港口或者能够代表某类潮汐特征。根据用户的需要也可适当增添新建港口作为主港。

第1、2、3册潮汐表包括了我国沿岸的主要港口、航道、渔场、海峡的潮汐、潮流预报。

第4、5、6册潮汐表除包括了英国潮汐表第I、II、III卷的主港外，还适当增添了一部分主港。

主港预报的精度，我国沿岸预报误差在20~30min之内，潮高在20~30cm以内，但是对于一些位于感潮河段中的主港预报潮高与实际水位相差较大。国外主港的预报精度大致和英、美等国潮汐表相当。

主港预报表日期下面注有星期(英文缩写)：

星期日：SU 星期一：M 星期二：TU 星期三：W 星期四：TH 星期五：F 星期六：SA

星期下面的●、☾、○、☾、N、S、E、P、A符号分别表示月亮的朔、上弦、望、下弦、赤纬最北、赤纬最南、赤纬最小、近地点、远地点。发生时间使用格林尼治时间。

## 附属港

如果两个港口的潮汐特征类似，则它们之间有着接近于固定不变的潮时差和潮差比(称作差比关系)。在此情况下即可利用其中一个港口的每日高、低潮预报，通过两港之间的差比关系推算另一港口的潮汐。根据这种关系推算潮汐的港口称为附属港。

潮汐表中列出的潮时差和潮差比等数据目前大部分是利用调和常数间接计算的，其质量决定

于调和常数的精度以及所选的主港。一般说来,利用差比关系推算的附属港潮汐精度较低。

## 潮 流

实际流是由天文因素引起的潮流和由其他因素(主要是气象因素)产生的海流之矢量和。应用潮汐表只能得到潮流,但有些地点也包含了平均的海流及其季节变化。在近海潮流远大于海流的区域,潮流可近似地视为实际海流或参照海洋图集等有关出版物作出估计。

中国沿岸三册潮汐表中刊载的潮流预报分为两种情况:一是往复流性质的站点,给出了每日的转流时间(流速为零或很小),最大流发生时刻,流速;二是旋转流性质的站点,给出了潮流回转一周(大约一个潮汐周期)过程中的两个极大值和两个极小值及其对应的时刻。

第4册潮汐表中刊载的潮流预报站点大都属往复流性质,表中只列出每日最大流的时刻和流速以及转流时刻。

使用中应当注意,一个港口的高、低潮发生时刻并不一定是潮流的转流时刻。在开阔岸边,高、低潮时刻与落潮流或涨潮流的开始时刻相近;在狭窄水道及河口内,转流时刻与高、低潮时刻相差可达数小时。

在半月潮流为主的海区,可利用海图上刊载的资料或专用的半月潮流图表,根据某一主港的潮汐预报推算临近水域的潮流。在全日潮流较大的海区则不能采用这种方法。

## 潮高和水深

潮高基准面是潮汐表中潮高的起算面,与海图深度基准面一致。因此某一时刻的水深等于海图水深加上该时刻的潮高。

## 附属港潮高的季节改正

中国沿岸三册潮汐表中主、附港的潮高季节改正数,可根据其编号查附录的“平均海面季节改正值表”得出。

第4、5、6册潮汐表第三部分中的各附属港潮高的季节改正数,从“附属港潮高季节改正数表”中查得。它们对应着每月中间日期的数值,可看做是月平均值。这些数值是将主港和附属港海面的季节变化结合考虑后计算出来的,只供由主港潮高推算附属港潮高时使用,而不是各港口海面的季节变化。各港口海面的季节变化另外列在“海面季节变化表”中。

## 潮 时

中国沿岸各港所采用的时间为北京标准时(东8时)。

第4、5、6册潮汐表中的高、低潮发生时间为当地使用的标准时。表中给出的标准时若为0000,表示该地用格林尼治时间(G. M. T);若为负值,表示该地在格林尼治以东(例如-0800表示东8时);若为正值,表示该地在格林尼治以西。

在附属港差比数中,当主、附港标准时不同时,已在它们的潮时差中作了改正,使用者无需考虑时区的不同。

本表不采用某些地区使用的夏季时间。所有港口,在一年当中都采用一个标准时。

## 潮 信

第1、2、3册潮汐表中的附属港潮信资料分两种情况给出:半日潮港口给出平均高(低)潮间隙、平均大(小)潮升;混合潮港和日潮港分别给出回归潮期间的平均高高(低低)潮间隙和高度及分点潮期间的平均高(低)潮间隙和高度。潮汐类型用主要半日潮振幅和主要日潮振幅的比值给出。

第4、5、6册潮汐表第三部分列出了每个港口的平均潮差、大潮差及潮汐类型。一个港口的潮汐主要由半日潮族和日潮族构成。日潮族可使两个相继的高潮或低潮的潮高产生不等,对潮时也

有影响。这种现象称做日潮不等。潮汐类型的划分决定于日潮不等的大小。第 4、5、6 册潮汐表中,将潮汐类型简单划分为两种: S 表示半日潮占优势,日潮不等较小;D 表示日潮不等较大或日潮占优势。

在 S 型港口,表中列出平均潮差和朔、望期间的平均大潮差。

在 D 型港口,表中列出平均大的潮差和回归潮期间平均大的潮差。“大的潮差”是指一个太阴日内较高的高潮(高高潮)与较低的低潮(低低潮)之间的高度差,如果一天只有一个高潮和一个低潮,则将它们作为高高潮和低低潮。

## 地 名

国内港口的地名用汉字和汉语拼音;朝鲜、韩国、日本和越南的地名用该国的拼音和中文译名;其他国家和地区大部分采用英国潮汐表中的英文地名和中文译文,少部分采用该国潮汐表中的外文地名和中文译名。

地名前所注的国家或地区,一般只表示其所在的地理位置,而不是指其政区归属。为了便于查找,在潮汐表的最后刊有地名索引。

使用本表时,遇有错误和不当之处,请通知我中心,以便改正。

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国家海洋信息中心

# 附属港潮汐计算方法

本书第三部分列出了主、附港之间的潮时差、潮差比和改正数,用以计算附属港潮汐的近似值。  
附属港潮时用下式计算:

附属港高(低)潮时 = 主港高(低)潮时 + 高(低)潮时差

附属港潮高的计算式为

附属港潮高 = 主港潮高 × 潮差比 + 改正数 + 潮高季节改正数

其中潮高的季节改正数列在第三部分每页的下方。

例: 求附属港乙港 5 月 15 日的潮汐。

附属港乙港的主港是甲港,它们之间的差比关系如下:

高潮时差 = + 0644

低潮时差 = + 0656      5 月份乙港潮高的季节改正数为 + 0.2m

潮差比 = 1.22

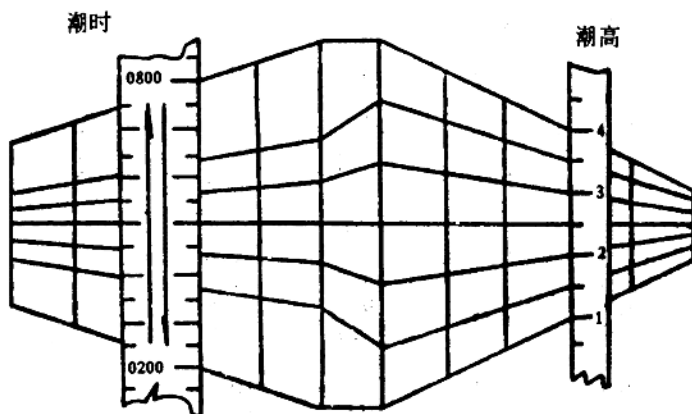
改正数 = 0.0 m

|                    | 高 潮    |        |        |        | 低 潮    |        |        |        |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|
|                    | 潮 时    | 潮 高    | 潮 时    | 潮 高    | 潮 时    | 潮 高    | 潮 时    | 潮 高    |
| 主港甲港 5 月 14~15 日潮汐 | 2312   | 2.6    | 1140   | 3.4    | 1723   | 0.5    | 0512   | 0.3    |
|                    | (14 日) |        | (15 日) |        | (14 日) |        | (15 日) |        |
| 加潮时差和乘潮差比          | + 0644 | × 1.22 | + 0644 | × 1.22 | + 0656 | × 1.22 | + 0656 | × 1.22 |
|                    | 2956   | 3.2    | 1824   | 4.1    | 2419   | 0.6    | 1208   | 0.4    |
|                    | (14 日) |        |        |        | (14 日) |        |        |        |
| 加改正数               |        | 0.0    |        | 0.0    |        | 0.0    |        | 0.0    |
|                    | 0556   | 3.2    | 1824   | 4.1    | 0019   | 0.6    | 1208   | 0.4    |
| 加潮高季节改正数           | (15 日) | + 0.2  |        | + 0.2  | (15 日) | + 0.2  |        | + 0.2  |
| 5 月 15 日乙港潮汐       | 0556   | 3.4    | 1824   | 4.3    | 0019   | 0.8 *  | 1208   | 0.6    |

## 任意时潮高计算方法

在两相邻高低潮的潮时和潮高为已知时,可利用本表所附的图卡近似计算它们之间任意时刻的潮高。

例 1 已知某港某日低潮时为 0200,低潮高为 1.0m,高潮时为 0800,高潮高为 4.0m,求在 0200 到 0800 之间任意时刻的潮高。



如图所示。使潮时尺上涨潮一边的读数 0200 和 0800 处分别与图卡左侧的上下两斜边相接;使潮高尺上 1.0m 和 4.0m 处分别与图卡右侧上下两斜边相接(潮时尺和潮高尺应与图卡上的垂直线平行)。然后通过图卡中的放射状斜线查得

0300 的潮高为 1.4m,  
0400 的潮高为 1.8m,  
0700 的潮高为 3.8m。

例 2 已知某港某日低潮时为 1100,低潮高为 1.0m,高潮时为 2130,高潮高为 3.5m。求在 1100 和 2130 之间任意时刻的潮高。

本例涨潮时间大于 8h,此时应使用潮时尺中缩小了一倍的小比例尺数字,用同样的方法得

1300 的潮高为 1.2m,  
1600 的潮高为 2.2m,  
1930 的潮高为 3.3m。

m - ft 换算表

| m   | ft   | m   | ft   | m    | ft   | m    | ft   |
|-----|------|-----|------|------|------|------|------|
| 0.0 | 0.0  | 4.0 | 13.1 | 8.0  | 26.2 | 12.0 | 39.4 |
| 0.1 | 0.3  | 4.1 | 13.5 | 8.1  | 26.6 | 12.1 | 39.7 |
| 0.2 | 0.7  | 4.2 | 13.8 | 8.2  | 26.9 | 12.2 | 40.0 |
| 0.3 | 1.0  | 4.3 | 14.1 | 8.3  | 27.2 | 12.3 | 40.4 |
| 0.4 | 1.3  | 4.4 | 14.4 | 8.4  | 27.6 | 12.4 | 40.7 |
| 0.5 | 1.6  | 4.5 | 14.8 | 8.5  | 27.9 | 12.5 | 41.0 |
| 0.6 | 2.0  | 4.6 | 15.1 | 8.6  | 28.2 | 12.6 | 41.3 |
| 0.7 | 2.3  | 4.7 | 15.4 | 8.7  | 28.5 | 12.7 | 41.7 |
| 0.8 | 2.6  | 4.8 | 15.7 | 8.8  | 28.9 | 12.8 | 42.0 |
| 0.9 | 3.0  | 4.9 | 16.1 | 8.9  | 29.2 | 12.9 | 42.3 |
| 1.0 | 3.3  | 5.0 | 16.4 | 9.0  | 29.5 | 13.0 | 42.7 |
| 1.1 | 3.6  | 5.1 | 16.7 | 9.1  | 29.9 | 13.1 | 43.0 |
| 1.2 | 3.9  | 5.2 | 17.1 | 9.2  | 30.2 | 13.2 | 43.3 |
| 1.3 | 4.3  | 5.3 | 17.4 | 9.3  | 30.5 | 13.3 | 43.6 |
| 1.4 | 4.6  | 5.4 | 17.7 | 9.4  | 30.8 | 13.4 | 44.0 |
| 1.5 | 4.9  | 5.5 | 18.0 | 9.5  | 31.2 | 13.5 | 44.3 |
| 1.6 | 5.2  | 5.6 | 18.4 | 9.6  | 31.5 | 13.6 | 44.6 |
| 1.7 | 5.6  | 5.7 | 18.7 | 9.7  | 31.8 | 13.7 | 44.9 |
| 1.8 | 5.9  | 5.8 | 19.0 | 9.8  | 32.2 | 13.8 | 45.3 |
| 1.9 | 6.2  | 5.9 | 19.4 | 9.9  | 32.5 | 13.9 | 45.6 |
| 2.0 | 6.6  | 6.0 | 19.7 | 10.0 | 32.8 | 14.0 | 46.0 |
| 2.1 | 6.9  | 6.1 | 20.0 | 10.1 | 33.1 | 14.1 | 46.3 |
| 2.2 | 7.2  | 6.2 | 20.3 | 10.2 | 33.5 | 14.2 | 46.6 |
| 2.3 | 7.6  | 6.3 | 20.7 | 10.3 | 33.8 | 14.3 | 46.9 |
| 2.4 | 7.9  | 6.4 | 21.0 | 10.4 | 34.1 | 14.4 | 47.2 |
| 2.5 | 8.2  | 6.5 | 21.3 | 10.5 | 34.4 | 14.5 | 47.6 |
| 2.6 | 8.5  | 6.6 | 21.7 | 10.6 | 34.8 | 14.6 | 47.9 |
| 2.7 | 8.9  | 6.7 | 22.0 | 10.7 | 35.1 | 14.7 | 48.2 |
| 2.8 | 9.2  | 6.8 | 22.3 | 10.8 | 35.4 | 14.8 | 48.6 |
| 2.9 | 9.5  | 6.9 | 22.6 | 10.9 | 35.8 | 14.9 | 48.9 |
| 3.0 | 9.8  | 7.0 | 23.0 | 11.0 | 36.1 | 15.0 | 49.2 |
| 3.1 | 10.2 | 7.1 | 23.3 | 11.1 | 36.4 | 15.1 | 49.5 |
| 3.2 | 10.5 | 7.2 | 23.6 | 11.2 | 36.7 | 15.2 | 49.9 |
| 3.3 | 10.8 | 7.3 | 24.0 | 11.3 | 37.1 | 15.3 | 50.2 |
| 3.4 | 11.2 | 7.4 | 24.3 | 11.4 | 37.4 | 15.4 | 50.5 |
| 3.5 | 11.5 | 7.5 | 24.6 | 11.5 | 37.7 | 15.5 | 50.9 |
| 3.6 | 11.8 | 7.6 | 24.9 | 11.6 | 38.1 | 15.6 | 51.2 |
| 3.7 | 12.1 | 7.7 | 25.3 | 11.7 | 38.4 | 15.7 | 51.5 |
| 3.8 | 12.5 | 7.8 | 25.6 | 11.8 | 38.7 | 15.8 | 51.8 |
| 3.9 | 12.8 | 7.9 | 25.9 | 11.9 | 39.0 | 15.9 | 52.2 |

2003 年

## 月 历 表

| 日    | 一    | 二    | 三    | 四    | 五    | 六    | 日    | 一    | 二    | 三    | 四    | 五    | 六    |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 月  |      |      |      |      |      |      | 2 月  |      |      |      |      |      |      |
|      |      |      | 1 戌  | 2 子  | 3 丑  | 4 寅  |      |      |      |      |      |      | 1 酉  |
| 5 卯  | 6 辰  | 7 巳  | 8 午  | 9 未  | 10 申 | 11 酉 | 2 戌  | 3 亥  | 4 子  | 5 丑  | 6 寅  | 7 卯  | 8 辰  |
| 12 卯 | 13 辰 | 14 巳 | 15 午 | 16 未 | 17 申 | 18 酉 | 9 亥  | 10 子 | 11 丑 | 12 寅 | 13 辰 | 14 巳 | 15 午 |
| 19 未 | 20 申 | 21 酉 | 22 戌 | 23 亥 | 24 子 | 25 丑 | 16 寅 | 17 辰 | 18 巳 | 19 午 | 20 未 | 21 申 | 22 酉 |
| 26 戌 | 27 亥 | 28 子 | 29 丑 | 30 寅 | 31 卯 |      | 23 辰 | 24 巳 | 25 午 | 26 未 | 27 申 | 28 酉 |      |
| 3 月  |      |      |      |      |      |      | 4 月  |      |      |      |      |      |      |
|      |      |      |      |      |      | 1 戌  |      |      | 1 子  | 2 丑  | 3 寅  | 4 卯  | 5 辰  |
| 2 子  | 3 丑  | 4 寅  | 5 卯  | 6 辰  | 7 巳  | 8 午  | 6 卯  | 7 辰  | 8 巳  | 9 午  | 10 未 | 11 申 | 12 酉 |
| 9 未  | 10 申 | 11 酉 | 12 戌 | 13 亥 | 14 子 | 15 丑 | 13 辰 | 14 巳 | 15 午 | 16 未 | 17 申 | 18 酉 | 19 戌 |
| 16 酉 | 17 戌 | 18 亥 | 19 子 | 20 丑 | 21 寅 | 22 卯 | 20 午 | 21 未 | 22 申 | 23 酉 | 24 戌 | 25 亥 | 26 子 |
| 23 辰 | 24 巳 | 25 午 | 26 未 | 27 申 | 28 酉 | 29 戌 | 27 亥 | 28 子 | 29 丑 | 30 寅 |      |      |      |
| 30 卯 | 31 辰 |      |      |      |      |      |      |      |      |      |      |      |      |
| 5 月  |      |      |      |      |      |      | 6 月  |      |      |      |      |      |      |
|      |      |      |      |      | 1 酉  | 2 戌  | 1 卯  | 2 辰  | 3 巳  | 4 午  | 5 未  | 6 申  | 7 酉  |
| 4 卯  | 5 辰  | 6 巳  | 7 午  | 8 未  | 9 申  | 10 酉 | 8 戌  | 9 亥  | 10 子 | 11 丑 | 12 寅 | 13 辰 | 14 巳 |
| 11 未 | 12 申 | 13 酉 | 14 戌 | 15 亥 | 16 子 | 17 丑 | 15 寅 | 16 辰 | 17 巳 | 18 午 | 19 未 | 20 申 | 21 酉 |
| 18 戌 | 19 亥 | 20 子 | 21 丑 | 22 寅 | 23 卯 | 24 辰 | 22 巳 | 23 午 | 24 未 | 25 申 | 26 酉 | 27 戌 | 28 亥 |
| 25 巳 | 26 午 | 27 未 | 28 申 | 29 酉 | 30 戌 | 31 亥 | 29 子 | 30 丑 |      |      |      |      |      |
| 7 月  |      |      |      |      |      |      | 8 月  |      |      |      |      |      |      |
|      |      | 1 卯  | 2 辰  | 3 巳  | 4 午  | 5 未  |      |      |      |      |      | 1 酉  | 2 戌  |
| 6 卯  | 7 辰  | 8 巳  | 9 午  | 10 未 | 11 申 | 12 酉 | 3 亥  | 4 子  | 5 丑  | 6 寅  | 7 卯  | 8 辰  | 9 巳  |
| 13 未 | 14 申 | 15 酉 | 16 戌 | 17 亥 | 18 子 | 19 丑 | 10 辰 | 11 巳 | 12 午 | 13 未 | 14 申 | 15 酉 | 16 戌 |
| 20 寅 | 21 卯 | 22 辰 | 23 巳 | 24 午 | 25 未 | 26 申 | 17 酉 | 18 戌 | 19 亥 | 20 子 | 21 丑 | 22 寅 | 23 卯 |
| 27 巳 | 28 午 | 29 未 | 30 申 | 31 酉 |      |      | 24 辰 | 25 巳 | 26 午 | 27 未 | 28 申 | 29 酉 | 30 戌 |
| 9 月  |      |      |      |      |      |      | 10 月 |      |      |      |      |      |      |
|      |      | 1 卯  | 2 辰  | 3 巳  | 4 午  | 5 未  |      |      | 1 亥  | 2 子  | 3 丑  | 4 寅  |      |
| 7 子  | 8 丑  | 9 寅  | 10 卯 | 11 辰 | 12 巳 | 13 午 | 5 卯  | 6 辰  | 7 巳  | 8 午  | 9 未  | 10 申 | 11 酉 |
| 14 未 | 15 申 | 16 酉 | 17 戌 | 18 亥 | 19 子 | 20 丑 | 12 寅 | 13 卯 | 14 辰 | 15 巳 | 16 午 | 17 未 | 18 申 |
| 21 辰 | 22 巳 | 23 午 | 24 未 | 25 申 | 26 酉 | 27 戌 | 19 酉 | 20 戌 | 21 亥 | 22 子 | 23 丑 | 24 寅 | 25 卯 |
| 28 卯 | 29 辰 | 30 巳 |      |      |      |      | 26 卯 | 27 辰 | 28 巳 | 29 午 | 30 未 | 31 申 |      |
| 11 月 |      |      |      |      |      |      | 12 月 |      |      |      |      |      |      |
|      |      |      |      |      |      | 1 亥  |      | 1 卯  | 2 辰  | 3 巳  | 4 午  | 5 未  | 6 申  |
| 2 亥  | 3 子  | 4 丑  | 5 寅  | 6 卯  | 7 辰  | 8 巳  | 7 午  | 8 未  | 9 申  | 10 酉 | 11 戌 | 12 亥 | 13 子 |
| 9 未  | 10 申 | 11 酉 | 12 戌 | 13 亥 | 14 子 | 15 丑 | 14 寅 | 15 卯 | 16 辰 | 17 巳 | 18 午 | 19 未 | 20 申 |
| 16 辰 | 17 巳 | 18 午 | 19 未 | 20 申 | 21 酉 | 22 戌 | 21 亥 | 22 子 | 23 丑 | 24 寅 | 25 卯 | 26 辰 | 27 巳 |
| 23 子 | 24 丑 | 25 寅 | 26 卯 | 27 辰 | 28 巳 | 29 午 | 28 未 | 29 申 | 30 酉 | 31 戌 |      |      |      |
| 30 卯 |      |      |      |      |      |      |      |      |      |      |      |      |      |

2003年(格林尼治平时)

## 格林尼治月中天时刻表

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

2003 年(世界时零时)

## 月 赤 纬 表

| 月<br>份<br>日<br>期 | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      | 12      |
|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                  | (°)(′)  | (°)(′)  | (°)(′)  | (°)(′)  | (°)(′)  | (°)(′)  | (°)(′)  | (°)(′)  | (°)(′)  | (°)(′)  | (°)(′)  | (°)(′)  |
| 1                | 南 23 23 | 南 22 56 | 南 20 45 | 南 03 13 | 北 11 01 | 北 24 46 | 北 25 36 | 北 11 26 | 南 11 35 | 南 24 26 | 南 23 46 | 南 11 43 |
| 2                | 25 22   | 19 36   | 16 46   | 北 02 06 | 15 38   | 26 13   | 23 25   | 05 35   | 17 07   | 26 32   | 20 05   | 06 16   |
| 3                | 25 43   | 15 23   | 12 07   | 07 18   | 19 41   | 26 24   | 20 00   | 南 00 36 | 21 39   | 26 54   | 15 31   | 00 42   |
| 4                | 24 28   | 10 35   | 07 03   | 12 13   | 22 57   | 25 16   | 15 32   | 06 48   | 24 53   | 25 36   | 10 22   | 北 04 48 |
| 5                | 21 52   | 05 28   | 01 46   | 16 41   | 25 14   | 22 49   | 10 14   | 12 43   | 26 33   | 22 52   | 04 55   | 10 04   |
| 6                | 18 12   | 00 14   | 北 03 30 | 20 31   | 26 23   | 19 10   | 04 22   | 17 59   | 26 32   | 18 59   | 北 00 39 | 14 56   |
| 7                | 13 48   | 北 04 58 | 08 36   | 23 32   | 26 16   | 14 31   | 南 01 48 | 22 15   | 24 55   | 14 16   | 06 07   | 19 13   |
| 8                | 08 55   | 09 56   | 13 23   | 25 33   | 24 48   | 09 02   | 07 59   | 25 11   | 21 53   | 09 01   | 11 20   | 22 45   |
| 9                | 03 48   | 14 33   | 17 39   | 26 22   | 22 03   | 03 00   | 13 50   | 26 30   | 17 45   | 03 29   | 16 05   | 25 19   |
| 10               | 北 01 22 | 18 39   | 21 16   | 25 53   | 18 05   | 南 03 21 | 19 00   | 26 05   | 12 50   | 北 02 06 | 20 13   | 26 46   |
| 11               | 06 28   | 22 02   | 24 01   | 24 61   | 13 05   | 09 39   | 23 04   | 24 03   | 07 26   | 07 33   | 23 31   | 26 59   |
| 12               | 11 20   | 24 29   | 25 42   | 20 48   | 07 15   | 15 32   | 25 38   | 20 38   | 01 51   | 12 40   | 25 50   | 25 55   |
| 13               | 15 49   | 25 46   | 26 08   | 16 21   | 00 52   | 20 32   | 26 28   | 16 12   | 北 03 43 | 17 16   | 26 59   | 23 35   |
| 14               | 19 44   | 25 43   | 25 10   | 10 51   | 南 05 43 | 24 12   | 25 30   | 11 06   | 09 04   | 21 10   | 26 54   | 20 08   |
| 15               | 22 52   | 24 10   | 22 46   | 04 35   | 12 06   | 26 11   | 22 57   | 05 38   | 14 00   | 24 13   | 25 31   | 15 41   |
| 16               | 24 57   | 21 09   | 18 57   | 南 02 04 | 17 49   | 26 18   | 19 08   | 00 04   | 18 23   | 26 13   | 22 54   | 10 27   |
| 17               | 25 47   | 16 50   | 13 57   | 08 42   | 22 21   | 24 41   | 14 27   | 北 05 23 | 22 02   | 27 02   | 19 09   | 04 37   |
| 18               | 25 11   | 11 28   | 08 01   | 14 51   | 25 19   | 21 37   | 09 15   | 10 33   | 24 46   | 26 35   | 14 23   | 南 01 35 |
| 19               | 23 07   | 05 24   | 01 32   | 20 01   | 26 29   | 17 30   | 03 48   | 15 18   | 26 26   | 24 49   | 08 48   | 07 54   |
| 20               | 19 40   | 南 00 58 | 南 05 05 | 23 49   | 25 52   | 12 41   | 北 01 39 | 19 26   | 26 51   | 21 46   | 02 36   | 13 59   |
| 21               | 15 04   | 07 16   | 11 24   | 25 58   | 23 41   | 07 29   | 06 58   | 22 48   | 25 57   | 17 33   | 南 03 55 | 19 25   |
| 22               | 09 37   | 13 08   | 16 59   | 26 24   | 20 16   | 02 07   | 11 57   | 25 13   | 23 41   | 12 18   | 10 26   | 23 41   |
| 23               | 03 38   | 18 12   | 21 29   | 25 12   | 15 59   | 北 03 14 | 16 30   | 26 29   | 20 06   | 06 16   | 16 29   | 26 19   |
| 24               | 南 02 32 | 22 11   | 24 34   | 22 39   | 11 08   | 08 24   | 20 24   | 26 28   | 15 22   | 南 00 17 | 21 34   | 27 01   |
| 25               | 08 34   | 24 50   | 26 06   | 19 02   | 05 57   | 13 16   | 23 31   | 25 04   | 09 41   | 06 58   | 25 11   | 25 44   |
| 26               | 14 08   | 25 58   | 26 02   | 14 40   | 00 38   | 17 38   | 25 36   | 22 17   | 03 22   | 13 23   | 26 57   | 22 45   |
| 27               | 18 57   | 25 35   | 24 30   | 09 46   | 北 04 39 | 21 21   | 26 28   | 18 14   | 南 03 15 | 19 01   | 26 44   | 18 30   |
| 28               | 22 39   | 23 46   | 21 42   | 04 34   | 09 45   | 24 11   | 26 01   | 13 09   | 09 45   | 23 25   | 24 44   | 13 24   |
| 29               | 25 01   |         | 17 56   | 北 00 44 | 14 29   | 25 56   | 24 10   | 07 17   | 15 44   | 26 10   | 21 17   | 07 53   |
| 30               | 25 50   |         | 13 26   | 05 59   | 18 43   | 26 27   | 20 59   | 00 58   | 20 45   | 27 06   | 16 50   | 02 12   |
| 31               | 25 06   |         | 08 27   |         | 22 12   |         | 16 40   | 南 05 26 |         | 26 13   |         | 北 03 25 |

海面季节变化表

单位:m

| 序 号      | 1 月       | 2 月  | 3 月  | 4 月  | 5 月  | 6 月  | 7 月  | 8 月  | 9 月  | 10 月 | 11 月 | 12 月 |
|----------|-----------|------|------|------|------|------|------|------|------|------|------|------|
| 001~004  | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 005~009  | -0.1      | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | 0.0  |
| 010~045  | 0.0       | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 |
| 046~066  | -0.1      | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.2 | +0.1 | 0.0  |
| 067~076  | 0.0       | -0.1 | -0.2 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 |
| 077~093  | -0.1      | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.2 | +0.1 | 0.0  |
| 094~106  | 0.0       | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 |
| 107~134  | -0.1      | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  |
| 135~143  | 0.0       | 0.0  | 0.0  | -0.1 | -0.1 | -0.2 | -0.1 | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 |
| 144~173  | -0.1      | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 | 0.0  |
| 174~175  | -0.1      | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  |
| 176~206  | -0.1      | -0.2 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | +0.2 | +0.2 | +0.1 | -0.1 |
| 207~214  | -0.2      | -0.2 | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | +0.2 | +0.2 | +0.1 | 0.0  | -0.1 |
| 215~218a | -0.2      | -0.2 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 | +0.2 | +0.2 | +0.1 | -0.1 |
| 219~234  | -0.3      | -0.3 | -0.2 | -0.1 | 0.0  | +0.1 | +0.2 | +0.2 | +0.3 | +0.2 | 0.0  | -0.2 |
| 235~241  | -0.2      | -0.2 | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | +0.2 | +0.2 | +0.1 | 0.0  | -0.1 |
| 242~278  | -0.2      | -0.2 | -0.2 | -0.1 | 0.0  | +0.1 | +0.2 | +0.3 | +0.2 | +0.1 | -0.1 | -0.2 |
| 279~292  | -0.2      | -0.2 | -0.2 | -0.1 | 0.0  | +0.2 | +0.3 | +0.3 | +0.2 | 0.0  | -0.1 | -0.2 |
| 293~295  | -0.3      | -0.2 | -0.2 | -0.1 | +0.1 | +0.2 | +0.3 | +0.3 | +0.2 | 0.0  | -0.2 | -0.3 |
| 296~302  | -0.3      | -0.3 | -0.1 | 0.0  | +0.1 | +0.2 | +0.3 | +0.3 | +0.2 | +0.1 | -0.2 | -0.3 |
| 303~317  | -0.2      | -0.2 | -0.1 | -0.1 | +0.1 | +0.2 | +0.3 | +0.3 | +0.2 | 0.0  | -0.2 | -0.3 |
| 318~328  | -0.2      | -0.2 | -0.2 | -0.1 | +0.1 | +0.2 | +0.3 | +0.3 | +0.2 | 0.0  | -0.2 | -0.2 |
| 329~345  | -0.2      | -0.2 | -0.1 | -0.1 | 0.0  | +0.2 | +0.3 | +0.3 | +0.2 | 0.0  | -0.1 | -0.2 |
| 501~560  | -0.2      | -0.2 | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | +0.2 | +0.2 | +0.1 | 0.0  | -0.1 |
| 561~612  | -0.1      | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  |
| 613~623  | -0.1      | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | +0.2 | +0.2 | +0.1 | -0.1 | -0.1 |
| 624~644  | 0.0       | 0.0  | -0.1 | -0.2 | -0.1 | 0.0  | +0.1 | +0.2 | +0.1 | 0.0  | 0.0  | 0.0  |
| 651~668  | -0.1      | -0.2 | -0.2 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 | +0.2 | +0.1 | 0.0  | -0.1 |
| 669~672  | -0.1      | -0.1 | -0.2 | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  |
| 673~676  | -0.1      | -0.2 | -0.2 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 | +0.2 | +0.1 | 0.0  | -0.1 |
| 677~756  | -0.1      | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 | 0.0  | -0.1 |
| 757~766  | -0.1      | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | 0.0  |
| 767~771  | -0.1      | -0.2 | -0.2 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 | +0.2 | +0.1 | +0.1 | 0.0  |
| 772~775  | -0.1      | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 | 0.0  | -0.0 |
| 776~780  | 0.0       | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | 0.0  | 0.1  |
| 781~803  | -0.1      | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.2 | +0.1 | +0.1 | 0.0  |
| 804~836  | 0.0       | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  |
| 837~869  | 0.0       | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  |
| 870~875  | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 876~883  | 0.0       | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 | 0.0  | 0.0  | 0.0  |
| 884~886  | 0.0       | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  |
| 887~899  | 0.0       | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  | 0.0  |
| 900~906  | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 917~920a | 0.0       | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  |
| 921~935  | 0.0       | 0.0  | -0.1 | -0.2 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  |

续 表

| 序 号       | 1月   | 2月   | 3月   | 4月   | 5月        | 6月   | 7月   | 8月   | 9月   | 10月  | 11月  | 12月  |
|-----------|------|------|------|------|-----------|------|------|------|------|------|------|------|
| 936~945   | 0.0  | -0.1 | -0.2 | -0.2 | -0.1      | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  |
| 946~966   | -0.1 | -0.1 | -0.2 | -0.2 | -0.1      | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 | 0.0  | 0.0  |
| 967~1035  | -0.1 | -0.1 | -0.2 | -0.1 | -0.1      | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 | 0.0  | -0.1 |
| 1036~1041 | -0.1 | -0.1 | -0.2 | -0.1 | 0.0       | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  |
| 1042~1078 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0       | 0.0  | 0.0  | +0.1 | +0.2 | +0.1 | +0.1 | 0.0  |
| 1080~1084 | 0.0  | 0.0  | -0.1 | -0.1 | 0.0       | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  | 0.0  |
| 1085~1162 |      |      |      |      | 可 忽 略 不 计 |      |      |      |      |      |      |      |
| 1163~1168 | 0.0  | -0.1 | -0.1 | 0.0  | 0.0       | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 |
| 1169~1212 |      |      |      |      | 可 忽 略 不 计 |      |      |      |      |      |      |      |
| 1213~1221 | 0.0  | 0.0  | 0.0  | 0.0  | -0.1      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 | 0.0  |
| 1222~1250 | 0.0  | -0.1 | -0.1 | -0.1 | 0.0       | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 |
| 1251~1264 | 0.0  | 0.0  | 0.0  | -0.1 | -0.1      | -0.1 | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  |
| 1265~1352 | +0.1 | 0.0  | 0.0  | 0.0  | -0.1      | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 |
| 1353~1372 | +0.1 | +0.1 | 0.0  | 0.0  | 0.0       | 0.0  | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 |
| 1373~1390 | +0.1 | +0.1 | +0.1 | 0.0  | -0.1      | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 |
| 1391~1416 | +0.1 | 0.0  | 0.0  | -0.1 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 |
| 1417~1458 | +0.1 | +0.1 | 0.0  | 0.0  | -0.1      | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 |
| 1459~1471 | +0.1 | +0.1 | +0.1 | 0.0  | 0.0       | 0.0  | 0.0  | 0.0  | -0.1 | -0.1 | 0.0  | 0.0  |
| 1472~1478 | +0.1 | +0.1 | +0.1 | 0.0  | 0.0       | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 |
| 1479~1505 | +0.1 | +0.1 | 0.0  | -0.1 | -0.1      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 |
| 1506~1529 | +0.1 | +0.1 | 0.0  | -0.1 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 |
| 1530~1532 | +0.1 | +0.1 | +0.1 | 0.0  | 0.0       | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 |
| 1533~1544 | +0.1 | +0.1 | 0.0  | 0.0  | 0.0       | 0.0  | 0.0  | -0.1 | 0.0  | 0.0  | 0.0  | +0.1 |
| 1545~1552 | +0.1 | +0.1 | +0.1 | 0.0  | 0.0       | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 |
| 1553~1567 | +0.1 | +0.1 | +0.1 | 0.0  | 0.0       | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 |
| 1568~1579 | +0.1 | +0.1 | +0.1 | 0.0  | 0.0       | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 |
| 1580~1587 | +0.1 | 0.0  | 0.0  | 0.0  | 0.0       | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 |
| 1588~1616 |      |      |      |      | 可 忽 略 不 计 |      |      |      |      |      |      |      |
| 1617~1632 | 0.0  | 0.0  | 0.0  | -0.1 | -0.1      | 0.0  | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  | 0.0  |
| 1633~1638 | 0.0  | -0.1 | -0.1 | -0.1 | 0.0       | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  |
| 1639~1645 | -0.1 | -0.2 | -0.1 | 0.0  | 0.0       | +0.1 | +0.2 | +0.2 | +0.2 | +0.1 | 0.0  | -0.1 |
| 1646~1660 | -0.1 | -0.1 | -0.1 | 0.0  | 0.0       | +0.1 | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  |
| 1662~1684 | 0.0  | 0.0  | -0.1 | 0.0  | 0.0       | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  | 0.0  | 0.0  |
| 1685~1690 | 0.0  | -0.1 | -0.2 | -0.1 | +0.1      | +0.1 | +0.1 | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 |
| 1691~1697 | 0.0  | -0.1 | -0.1 | 0.0  | 0.0       | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | 0.0  |
| 1698~1745 |      |      |      |      | 可 忽 略 不 计 |      |      |      |      |      |      |      |
| 1746~1785 | +0.1 | +0.1 | 0.0  | 0.0  | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | -0.1 | 0.0  | 0.0  |
| 1786~1921 |      |      |      |      | 可 忽 略 不 计 |      |      |      |      |      |      |      |
| 1992      | +0.2 | +0.2 | +0.2 | +0.1 | 0.0       | -0.1 | -0.1 | -0.2 | -0.1 | 0.0  | 0.0  | +0.1 |
| 1926      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0       | 0.0  | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  |
| 1927~1928 | +0.1 | 0.0  | 0.0  | 0.0  | 0.0       | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 |
| 1929~1937 | +0.1 | +0.1 | +0.1 | 0.0  | 0.0       | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 |
| 1938~1941 | 0.0  | 0.0  | 0.0  | -0.1 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 |
| 1942~1949 | 0.0  | -0.1 | -0.1 | 0.0  | 0.0       | +0.1 | +0.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1950~1957 | 0.0  | -0.1 | 0.0  | 0.0  | +0.1      | +0.1 | +0.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

续 表

| 序 号       | 1 月       | 2 月  | 3 月  | 4 月  | 5 月  | 6 月  | 7 月  | 8 月  | 9 月  | 10 月 | 11 月 | 12 月 |
|-----------|-----------|------|------|------|------|------|------|------|------|------|------|------|
| 1958~1966 | -0.1      | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1967~1979 | 0.0       | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1980~1990 | 0.0       | 0.0  | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 | 0.0  |
| 1991~2006 | +0.1      | +0.1 | 0.0  | 0.0  | 0.0  | 0.0  | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 |
| 2007~2017 | +0.1      | +0.1 | 0.0  | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 |
| 2018~2021 | +0.1      | 0.0  | 0.0  | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 |
| 2022~2041 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  |
| 2042~2045 | +0.1      | +0.1 | 0.0  | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 |
| 2046~2056 | +0.2      | +0.2 | +0.1 | 0.0  | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.2 | +0.2 |
| 2059~2062 | +0.2      | +0.1 | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.2 | +0.2 |
| 2063~2078 | +0.3      | +0.1 | 0.0  | -0.1 | -0.1 | -0.2 | -0.2 | -0.2 | -0.1 | +0.1 | +0.3 | +0.3 |
| 2079~2091 | +0.2      | +0.1 | 0.0  | 0.0  | -0.1 | -0.1 | -0.2 | -0.1 | -0.1 | 0.0  | +0.2 | +0.2 |
| 2092~2110 | +0.2      | +0.1 | 0.0  | 0.0  | 0.0  | -0.2 | -0.3 | -0.2 | -0.1 | +0.1 | +0.2 | +0.2 |
| 2111~2116 | +0.2      | +0.1 | 0.0  | 0.0  | -0.1 | -0.2 | -0.2 | -0.1 | 0.0  | +0.2 | +0.3 | +0.3 |
| 2117~2127 | +0.1      | 0.0  | -0.1 | -0.1 | -0.1 | -0.2 | -0.1 | 0.0  | +0.1 | +0.2 | +0.2 | +0.2 |
| 2128~2135 | +0.1      | 0.0  | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 |
| 2136~2150 | 0.0       | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 |
| 2151~2160 | 0.0       | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  |
| 2161~2206 | -0.1      | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  |
| 2207~2223 | -0.1      | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  |
| 2224~2245 | -0.1      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  |
| 2246~2261 | -0.1      | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  |
| 2262~2294 | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 2295~2301 | +0.1      | 0.0  | 0.0  | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 |
| 2302~2309 | +0.1      | 0.0  | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 |
| 2310~2328 | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 2329~2333 | +0.1      | 0.0  | 0.0  | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 |
| 2336~2351 | +0.1      | +0.1 | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 |
| 2352      | +0.1      | +0.1 | 0.0  | 0.0  | -0.1 | -0.2 | -0.2 | -0.1 | +0.1 | +0.2 | +0.2 | +0.1 |
| 2356~2361 | +0.1      | 0.0  | 0.0  | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | +0.1 |
| 2362      | +0.2      | +0.1 | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.2 | +0.2 |
| 2364~2386 | +0.1      | 0.0  | 0.0  | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | +0.1 |
| 2387~2397 | +0.1      | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 |
| 2398      | +0.2      | +0.2 | +0.1 | +0.1 | 0.0  | 0.0  | -0.1 | -0.2 | -0.2 | -0.1 | +0.1 | +0.2 |
| 2399~2400 | +0.1      | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 |
| 2401~2405 | +0.1      | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  | -0.1 | -0.2 | -0.1 | 0.0  | 0.0  | +0.1 |
| 2406~2414 | +0.2      | +0.2 | +0.2 | +0.2 | +0.1 | -0.1 | -0.2 | -0.3 | -0.2 | 0.0  | +0.1 | +0.2 |
| 2415~2418 | +0.1      | +0.1 | 0.0  | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 |
| 2419~2433 | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 2434~2439 | +0.1      | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 |
| 2440~2463 | +0.1      | +0.1 | +0.1 | 0.0  | 0.0  | 0.0  | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  |
| 2464~2471 | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 2472~2476 | +0.1      | +0.1 | +0.1 | 0.0  | 0.0  | 0.0  | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  |
| 2477~2491 | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 2492~2495 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  |

续 表

| 序 号       | 1月   | 2月   | 3月   | 4月   | 5月   | 6月        | 7月   | 8月   | 9月   | 10月  | 11月  | 12月  |
|-----------|------|------|------|------|------|-----------|------|------|------|------|------|------|
| 2496~2512 |      |      |      |      |      | 可 忽 略 不 计 |      |      |      |      |      |      |
| 2513~2560 | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  | 0.0       | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  |
| 2561~2597 |      |      |      |      |      | 可 忽 略 不 计 |      |      |      |      |      |      |
| 2598~2625 | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  | 0.0       | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  |
| 2626~2628 | +0.2 | -0.2 | +0.2 | +0.1 | 0.0  | -0.1      | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 |
| 2629~2644 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | +0.1      | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  |
| 2645~2790 |      |      |      |      |      | 可 忽 略 不 计 |      |      |      |      |      |      |
| 2791~2800 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | 0.0       | 0.0  | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  |
| 2801~2804 | +0.2 | +0.2 | +0.2 | +0.1 | 0.0  | -0.1      | -0.2 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 |
| 2805~2807 | +0.3 | +0.3 | +0.2 | +0.1 | -0.1 | -0.3      | -0.3 | -0.2 | -0.1 | 0.0  | +0.1 | +0.2 |
| 2808~2813 | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  | -0.1      | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | +0.1 |
| 2814~2819 | -0.1 | 0.0  | +0.1 | +0.1 | +0.1 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2820~2840 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2841~2871 | +0.1 | +0.1 | +0.1 | +0.1 | +0.1 | 0.0       | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  |
| 2872~2887 | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  | -0.1      | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  |
| 2888~2907 | +0.1 | +0.1 | +0.1 | +0.1 | +0.1 | 0.0       | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  |
| 2908~2910 | 0.0  | 0.0  | +0.1 | +0.1 | 0.0  | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | -0.1 | -0.1 |
| 2911~2972 |      |      |      |      |      | 可 忽 略 不 计 |      |      |      |      |      |      |
| 2973~2997 | 0.0  | 0.0  | -0.1 | 0.0  | +0.1 | +0.1      | +0.1 | 0.0  | 0.0  | 0.0  | -0.1 | 0.0  |
| 2998~3004 |      |      |      |      |      | 可 忽 略 不 计 |      |      |      |      |      |      |
| 3005~3012 | -0.1 | 0.0  | 0.0  | 0.0  | +0.1 | +0.1      | +0.1 | +0.1 | 0.0  | 0.0  | -0.1 | -0.1 |
| 3013      | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 | +0.1      | +0.1 | 0.0  | 0.0  | -0.1 | 0.0  | 0.0  |
| 3016~3020 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1      | +0.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3021~3028 | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | +0.1      | +0.1 | +0.1 | 0.0  | -0.1 | -0.1 | -0.1 |
| 3031~3037 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | +0.1      | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  |
| 3038~3053 | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | +0.1      | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  |
| 3054~3062 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | +0.1      | 0.0  | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  |
| 3063~3079 | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | 0.0       | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  |
| 3080      | +0.1 | +0.2 | +0.2 | +0.1 | 0.0  | -0.1      | -0.2 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 |
| 3081~3084 | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | 0.0       | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  |
| 3085~3095 | +0.1 | +0.2 | +0.2 | +0.1 | 0.0  | -0.1      | -0.2 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  |
| 3096~3110 | +0.2 | +0.2 | +0.2 | +0.1 | 0.0  | -0.1      | -0.2 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 |
| 3111~3117 | +0.3 | +0.3 | +0.3 | +0.1 | -0.1 | -0.2      | -0.3 | -0.3 | -0.2 | 0.0  | +0.1 | +0.2 |
| 3118~3123 |      |      |      |      |      | 可 忽 略 不 计 |      |      |      |      |      |      |
| 3124~3126 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | +0.1      | 0.0  | 0.0  | -0.1 | -0.1 | 0.0  | 0.0  |
| 3127~3135 |      |      |      |      |      | 可 忽 略 不 计 |      |      |      |      |      |      |
| 3136~3165 | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | +0.1      | 0.0  | 0.0  | -0.1 | -0.1 | 0.0  | 0.0  |
| 3166~3510 |      |      |      |      |      | 可 忽 略 不 计 |      |      |      |      |      |      |
| 3512~3528 | 0.0  | 0.0  | 0.0  | 0.0  | -0.1 | -0.1      | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 |
| 3530~3566 | 0.0  | -0.1 | 0.0  | 0.0  | 0.0  | 0.0       | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | 0.0  |
| 3568~3577 | 0.0  | -0.1 | -0.1 | 0.0  | 0.0  | +0.1      | +0.1 | +0.1 | 0.0  | 0.0  | 0.0  | 0.0  |

# 附属港潮高季节改正数表

单位:m

| 序 号       | 1月        | 2月   | 3月   | 4月   | 5月   | 6月   | 7月   | 8月   | 9月   | 10月  | 11月  | 12月  |
|-----------|-----------|------|------|------|------|------|------|------|------|------|------|------|
| 1~23      | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 24        | 0.0       | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | +0.1 | +0.2 | +0.2 | +0.1 |
| 25~94     | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 96~98     | 0.0       | -0.1 | -0.2 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 |
| 99        | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 100~106   | +0.1      | +0.1 | +0.1 | +0.1 | +0.1 | +0.1 | +0.1 | -0.2 | -0.1 | -0.1 | 0.0  | +0.1 |
| 107~108   | +0.1      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -0.1 | 0.0  | -0.2 | 0.0  | 0.0  | +0.1 |
| 109~176   | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 177       | 0.0       | -0.1 | 0.0  | 0.0  | +0.1 | 0.0  | -0.1 | -0.2 | -0.1 | +0.1 | +0.1 | 0.0  |
| 178       | 0.0       | -0.1 | 0.0  | 0.0  | +0.1 | 0.0  | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | 0.0  |
| 179~215   | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 216       | +0.1      | +0.1 | +0.2 | +0.1 | 0.0  | -0.2 | -0.2 | -0.2 | -0.1 | -0.1 | +0.1 | +0.2 |
| 218       | +0.2      | +0.2 | +0.3 | +0.1 | 0.0  | -0.2 | -0.3 | -0.3 | -0.2 | -0.1 | +0.1 | +0.3 |
| 218a      | +0.1      | +0.1 | +0.2 | +0.1 | 0.0  | -0.2 | -0.2 | -0.2 | -0.1 | -0.1 | 0.0  | +0.2 |
| 220~280   | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 281       | +0.1      | 0.0  | 0.0  | 0.0  | -0.1 | -0.2 | -0.3 | -0.3 | 0.0  | +0.2 | +0.3 | +0.2 |
| 282~285   | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 286~288   | -0.1      | -0.1 | -0.2 | -0.1 | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 | 0.0  | -0.1 | -0.1 |
| 289       | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 290~292   | -0.2      | -0.1 | -0.2 | -0.1 | +0.1 | +0.2 | +0.2 | +0.2 | +0.2 | 0.0  | -0.2 | -0.2 |
| 293~305   | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 306~307   | -0.1      | -0.1 | -0.1 | -0.1 | +0.1 | +0.1 | +0.2 | +0.2 | +0.1 | 0.0  | -0.1 | -0.2 |
| 308~309   | -0.2      | -0.3 | -0.2 | -0.1 | +0.1 | +0.2 | +0.4 | +0.4 | +0.3 | 0.0  | -0.2 | -0.3 |
| 310       | -0.2      | -0.2 | -0.1 | -0.1 | +0.1 | +0.2 | +0.3 | +0.3 | +0.2 | 0.0  | -0.2 | -0.3 |
| 311~313   | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 314~316   | -0.3      | -0.2 | -0.1 | 0.0  | +0.2 | +0.2 | +0.3 | +0.3 | +0.2 | 0.0  | -0.2 | -0.3 |
| 317~337   | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 338~339   | +0.1      | +0.1 | +0.1 | +0.1 | 0.0  | -0.1 | -0.2 | -0.2 | -0.1 | 0.0  | +0.1 | +0.1 |
| 340       | +0.2      | +0.2 | +0.1 | +0.1 | 0.0  | -0.2 | -0.3 | -0.3 | -0.2 | 0.0  | +0.1 | +0.2 |
| 341~344   | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 345       | -0.1      | -0.1 | 0.0  | 0.0  | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 | -0.1 | -0.1 | -0.1 |
| 501~523   | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 524~527   | -0.2      | -0.2 | -0.1 | 0.0  | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 | 0.0  | -0.1 | -0.2 |
| 528~748   | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 750~755   | 0.0       | 0.0  | 0.0  | -0.1 | -0.1 | +0.1 | +0.1 | +0.2 | +0.1 | 0.0  | -0.1 | -0.1 |
| 756       | 0.0       | 0.0  | 0.0  | -0.1 | -0.1 | +0.1 | +0.1 | +0.2 | +0.1 | 0.0  | -0.1 | -0.1 |
| 757~771   | -0.1      | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  | 0.0  |
| 772~775   | -0.1      | -0.1 | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  | -0.1 | -0.1 |
| 776~935   | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 936~939   | 0.0       | -0.1 | -0.2 | -0.1 | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  |
| 940~959   | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 960~961   | 0.0       | +0.2 | +0.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 |
| 977~1020  | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 1021~1024 | +0.1      | +0.1 | +0.1 | +0.1 | +0.1 | -0.1 | -0.2 | -0.2 | -0.2 | -0.1 | +0.1 | +0.1 |
| 1025~1088 | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |

续 表

| 序 号        | 1月        | 2月   | 3月   | 4月   | 5月   | 6月   | 7月   | 8月   | 9月   | 10月  | 11月  | 12月  |
|------------|-----------|------|------|------|------|------|------|------|------|------|------|------|
| 1088a~1091 | +0.1      | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | -0.1 | -0.2 | -0.2 | 0.0  | +0.1 | +0.1 |
| 1092       | +0.1      | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | -0.1 | -0.3 | -0.2 | 0.0  | +0.1 | +0.1 |
| 1093       | +0.1      | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 | -0.2 | -0.4 | -0.3 | 0.0  | +0.2 | +0.2 |
| 1093a~1101 | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 1102       | +0.1      | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | -0.1 | -0.3 | -0.2 | 0.0  | +0.1 | +0.1 |
| 1103~1104  | +0.1      | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 | -0.2 | -0.3 | -0.3 | 0.0  | +0.2 | +0.2 |
| 1105~1107  | +0.1      | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | -0.1 | -0.2 | -0.2 | 0.0  | +0.1 | +0.1 |
| 1108~1159b | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 1160       | -0.1      | -0.2 | -0.2 | -0.2 | -0.1 | 0.0  | 0.0  | +0.1 | +0.2 | +0.2 | +0.2 | +0.1 |
| 1161       | -0.1      | -0.3 | -0.3 | -0.3 | -0.1 | 0.0  | 0.0  | +0.1 | +0.3 | +0.3 | +0.3 | +0.1 |
| 1162       | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 1163       | +0.3      | +0.2 | +0.1 | 0.0  | 0.0  | -0.1 | -0.2 | -0.2 | -0.2 | -0.1 | +0.1 | +0.2 |
| 1164       | +0.1      | 0.0  | 0.0  | +0.1 | +0.1 | -0.1 | -0.2 | -0.3 | -0.1 | 0.0  | +0.2 | +0.2 |
| 1165       | -0.2      | -0.2 | -0.1 | -0.1 | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 | +0.1 | 0.0  | -0.1 |
| 1166       | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 1167       | -0.8      | -0.6 | -0.3 | +0.1 | +0.4 | +0.4 | +0.4 | +0.4 | +0.4 | +0.1 | -0.4 | -0.7 |
| 1168       | -1.0      | -0.8 | -0.3 | +0.2 | +0.5 | +0.5 | +0.5 | +0.5 | +0.5 | +0.1 | -0.6 | -0.9 |
| 1169~1184  | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 1185       | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -0.1 | -0.1 | 0.0  | 0.0  | +0.0 |
| 1186       | 0.0       | 0.0  | 0.0  | +0.1 | +0.1 | 0.0  | -0.1 | -0.2 | -0.1 | 0.0  | +0.1 | +0.1 |
| 1187       | +0.1      | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | -0.1 | -0.3 | -0.2 | 0.0  | +0.1 | +0.1 |
| 1188       | +0.1      | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 | -0.2 | -0.3 | -0.2 | 0.0  | +0.2 | +0.2 |
| 1189       | +0.1      | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | -0.1 | -0.3 | -0.2 | 0.0  | +0.1 | +0.1 |
| 1190       | +0.1      | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 | -0.2 | -0.4 | -0.3 | 0.0  | +0.2 | +0.2 |
| 1191       | +0.1      | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 | -0.2 | -0.3 | -0.3 | 0.0  | +0.2 | +0.2 |
| 1192       | +0.1      | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 | -0.2 | -0.5 | -0.4 | 0.0  | +0.2 | +0.2 |
| 1193       | +0.1      | 0.0  | +0.1 | +0.3 | +0.3 | +0.1 | -0.3 | -0.5 | -0.4 | 0.0  | +0.3 | +0.3 |
| 1194~1195  | 0.0       | 0.0  | 0.0  | +0.1 | +0.1 | 0.0  | -0.1 | -0.2 | -0.1 | 0.0  | +0.1 | +0.1 |
| 1196~1204  | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 1205       | -0.2      | 0.0  | 0.0  | +0.2 | +0.4 | +0.4 | +0.4 | +0.2 | 0.0  | -0.2 | -0.4 | -0.4 |
| 1206       | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 1207       | -0.2      | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 | +0.2 | +0.1 | 0.0  | 0.0  | -0.1 |
| 1208~1221  | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 1222       | -0.1      | -0.2 | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  |
| 1234~1238  | -0.1      | -0.2 | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | +0.1 | +0.2 | +0.1 | +0.1 |
| 1239~1242  | -0.1      | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  |
| 1243~1248  | -0.1      | -0.2 | -0.2 | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.2 | +0.2 | +0.2 | +0.1 |
| 1249~1250  | -0.1      | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  |
| 1251~1253  | -0.1      | 0.0  | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | +0.1 | 0.0  | -0.1 |
| 1254       | -0.1      | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 | 0.0  | -0.1 |
| 1255~1257  | -0.2      | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 | 0.0  | -0.2 |
| 1258~1262  | -0.1      | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 | 0.0  | -0.1 |
| 1263~1264  | -0.1      | 0.0  | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | +0.1 | 0.0  | -0.1 |
| 1265~1282  | 0.0       | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 |
| 1283~1286  | 0.0       | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 |

续 表

| 序 号       | 1 月       | 2 月  | 3 月  | 4 月  | 5 月  | 6 月  | 7 月  | 8 月  | 9 月  | 10 月 | 11 月 | 12 月 |
|-----------|-----------|------|------|------|------|------|------|------|------|------|------|------|
| 1287~1290 | 0.0       | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | +0.1 | 0.0  | 0.0  | +0.1 | +0.1 | 0.0  |
| 1291~1294 | -0.1      | -0.1 | 0.0  | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  |
| 1295~1297 | 0.0       | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | +0.1 | 0.0  | 0.0  | +0.1 | +0.1 | 0.0  |
| 1298~1303 | 0.0       | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 |
| 1304~1306 | 0.0       | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | 0.0  |
| 1307~1308 | 0.0       | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 |
| 1309~1311 | 0.0       | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | 0.0  |
| 1312~1318 | 0.0       | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 |
| 1319~1325 | 0.0       | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | 0.0  |
| 1326~1328 | 0.0       | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 |
| 1329      | 0.0       | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | 0.0  |
| 1330      | -0.1      | -0.1 | 0.0  | -0.1 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  |
| 1331~1335 | 0.0       | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | 0.0  |
| 1336      | 0.0       | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 |
| 1337~1343 | 0.0       | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | 0.0  |
| 1344~1450 | 0.0       | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.2 | +0.2 | +0.1 |
| 1351~1352 | 0.0       | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | 0.0  |
| 1353~1371 | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 1373~1376 | 0.0       | +0.1 | +0.1 | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1377~1381 | 0.0       | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 |
| 1382~1385 | 0.0       | 0.0  | +0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1386~1390 | 0.0       | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 |
| 1391~1396 | 0.0       | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | 0.0  |
| 1397      | -0.1      | -0.1 | -0.1 | -0.1 | -0.1 | +0.1 | +0.1 | +0.1 | +0.1 | +0.1 | 0.0  | 0.0  |
| 1398      | 0.0       | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | 0.0  |
| 1399~1416 | 0.0       | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  | +0.1 | +0.1 | 0.0  |
| 1417~1434 | 0.0       | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1435~1440 | 0.0       | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 |
| 1441~1451 | 0.0       | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 |
| 1452~1454 | 0.0       | 0.0  | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 |
| 1455~1456 | 0.0       | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 |
| 1457~1458 | 0.0       | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1459~1471 | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 1472~1473 | +0.1      | 0.0  | 0.0  | 0.0  | -0.1 | -0.1 | -0.1 | -0.1 | 0.0  | 0.0  | 0.0  | +0.1 |
| 1474~1478 | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 1479~1505 | 0.0       | 0.0  | 0.0  | 0.0  | -0.1 | -0.1 | 0.0  | -0.1 | -0.1 | 0.0  | +0.1 | +0.1 |
| 1506~1522 | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 1523      | 0.0       | -0.1 | -0.2 | -0.2 | 0.0  | +0.1 | +0.1 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 |
| 1524~1528 | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 1529      | 0.0       | -0.1 | -0.2 | -0.2 | 0.0  | +0.1 | +0.1 | 0.0  | 0.0  | +0.1 | +0.1 | +0.1 |
| 1530~1638 | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |
| 1639~1641 | -0.2      | -0.2 | -0.1 | 0.0  | +0.1 | +0.1 | +0.1 | +0.1 | +0.1 | +0.1 | -0.1 | -0.1 |
| 1643      | -0.2      | -0.3 | -0.3 | -0.1 | 0.0  | +0.2 | +0.3 | +0.3 | +0.2 | +0.1 | -0.1 | -0.1 |
| 1644      | -0.2      | -0.2 | -0.1 | 0.0  | 0.0  | +0.1 | +0.1 | +0.2 | +0.1 | +0.1 | -0.1 | -0.1 |
| 1645~1700 | 可 忽 略 不 计 |      |      |      |      |      |      |      |      |      |      |      |