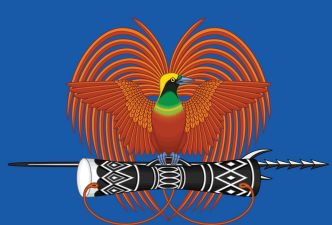
PAPUA NEW GUINEA

NATIONAL TIDE TABLES

2024



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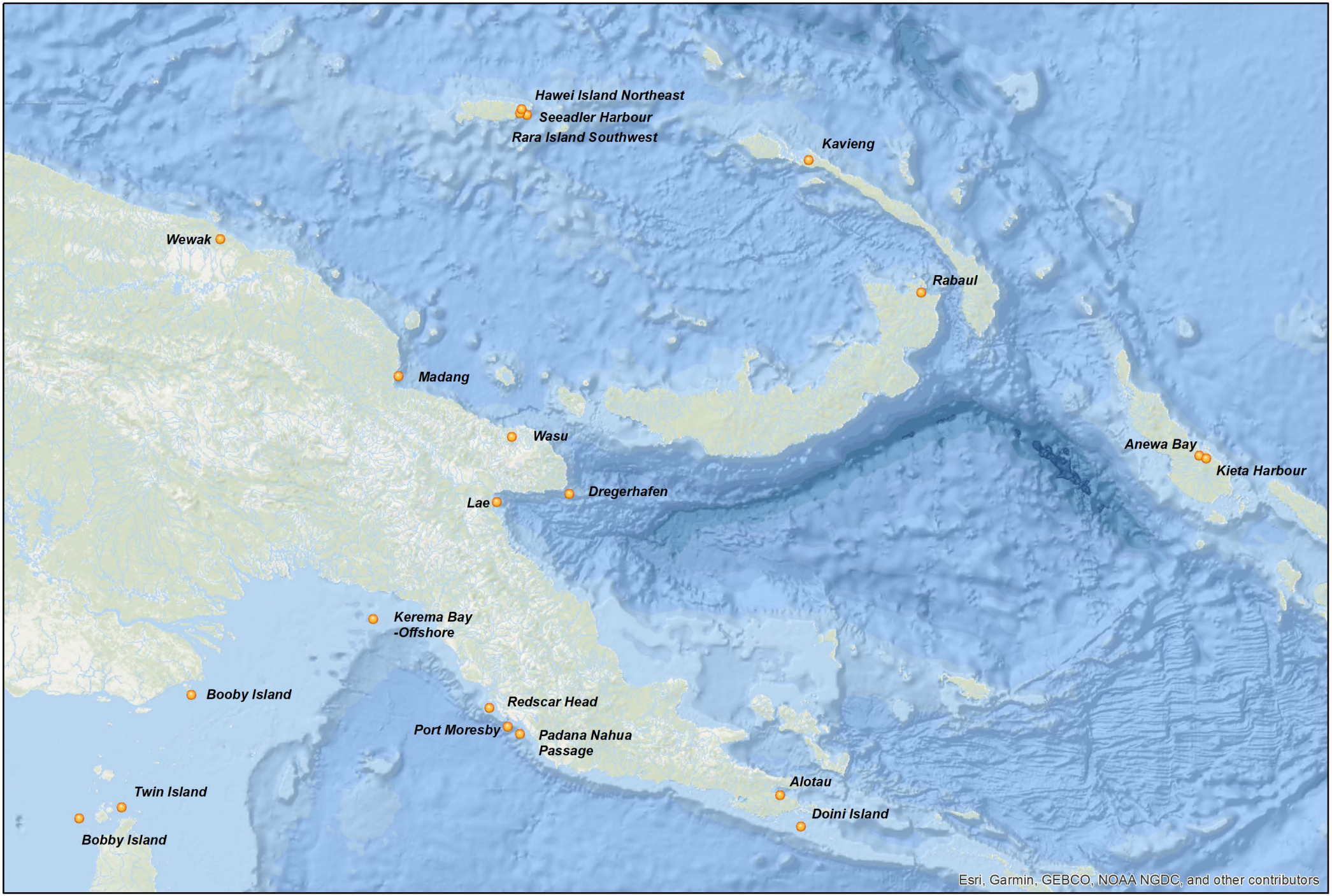
Hawei Island Northeast
Seeadler Harbour
Rara Island Southwest
Kavieng
Wewak
Rabaul
Madang
Wasu
Anewa Bay
Kieta Harbour
Dregerhafen
Lae
Kerema Bay
-Offshore
Booby Island
Redscar Head
Port Moresby
Padana Nahua
Passage
Alotau
Twin Island
Doini Island
Bobby Island
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Papua New Guinea
National Maritime Safety Authority

Papua New Guinea
National Tide Tables

2024

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Important Notice

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Notices to Mariners Corrections

Corrections to this publication will be made through Notice to Mariners (NtM). Users can register for eNotices via the AHO website in order to receive notification of NtM updates.

The table below is to record NtM corrections affecting this publication.

2023		2024	
NtM	**Comments**	**NtM**	**Comments**

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Website:	www.hydro.gov.au
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General

The Papua New Guinea National Tide Tables (PNGNTT) are produced by the AHO on behalf of the Papua New Guinea National Maritime Safety Authority. The AHO is the Primary Charting Authority (PCA) for Papua New Guinea under an agreement dating from 1978. This arrangement includes all nautical charts covering PNG waters and PNGNTT.

Tidal Predictions

The PNGNTT contain predictions extracted from the Australian National Tide Tables (ANTT).

A number of ports treated as standard ports in PNGNTT (daily times and heights of high water and low water) are treated as secondary ports (tidal level, range and time differences only) in ANTT. Use of either PNGNTT or ANTT will give the same results for each listed port.

Users of these tide tables should be aware that the published heights are predictions only and that actual water level height may vary due to meteorological conditions and seasonal variations. These effects are detailed in Chapter 1.

Time Zones Used

Time Zones of predictions are those of the official Standard Time (ST) kept at the location.

Heights of Predictions

All predicted heights are given in metres above Lowest Astronomical Tide (LAT).

Moon Phases

The symbols for the New and Full Moon (●,○), First and Last Quarter (◑,◐) are shown in the daily predictions on the days on which they occur.

Provision of Information

The information provided by marine and port authorities, commercial companies and individuals has made the publication of these tide tables possible. Organisations and individuals should contact the AHO in the event of the following:

- Any inaccuracies noted
- Notable discrepancies between predictions and observations
- Details concerning the establishment of new automatic tide gauges
- Any suggestions for improvement of the publication.

Acknowledgement

We gratefully acknowledge the National Tidal Unit of the Australian Bureau of Meteorology for allowing the use of the Moon Phases

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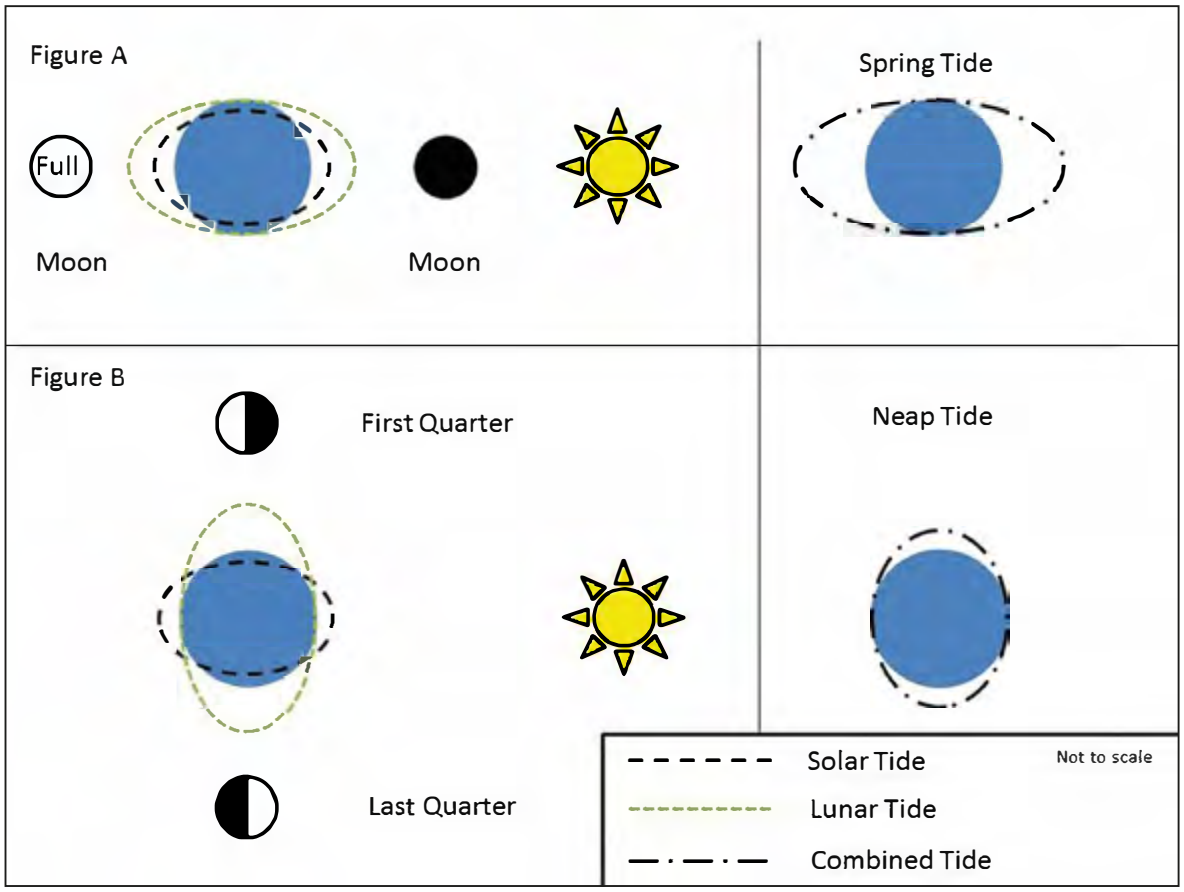
CHAPTER 1 GENERAL INFORMATION

1.1 WHAT CAUSES TIDES?

1. The term 'tides' is a common term used to define the rise and fall of the sea level with respect to land. Tides are caused by the gravitational pull of the Sun and Moon on the Earth and its waters. As defined by Newton's Universal Law of Gravity, the Moon generates about double (54%) the tide-generating force of the Sun, simply because it is closer.
2. The ocean responds to the gravitational pull of the Sun and Moon by 'bulging' on the side of the Earth that faces the Moon, and the side directly opposite. The sums of the solar and lunar bulges create daily high tides as the Earth rotates.
3. A diurnal tide is when there is one high and one low tide every lunar day. A lunar day is the time it takes for a specific point on Earth to complete a full rotation in relation to the Moon (24 hours and 50 minutes). A semi-diurnal tide is when there are two high tides and two low tides every lunar day. Most locations experience a mix of diurnal and semi-diurnal tides. This is why high and low tides occur at different times every day.

1.2 WHAT ARE SPRING AND NEAP TIDES?

1. The Earth, Moon and Sun all have elliptical orbits, which means that the distance between them is constantly changing. From the perspective of tide-generating forces, the Sun and Moon also appear to rotate around the Earth at different frequencies, with their gravitational effect sometimes acting in the same general direction, and at other times each reducing the influence of the other.
2. Spring tides occur during the New and Full Moon, when the Moon and Sun are nearly in alignment. The tide-generating forces of the Sun and Moon are therefore acting in approximately the same direction (see Figure A), and cause the oceans to 'bulge' more than usual, resulting in the average tidal ranges to be a little larger. Neap tides occur near the First and Last Quarter Moon, when the Moon and Sun are at right angles to each other. The lunar and solar tide-generating forces are thus acting against each other (see Figure B), which causes moderate tides.
3. Spring and Neap tides each occur twice in a lunar month.



1.3 WHAT IS A KING TIDE? (SPRING TIDE)

1. While the term 'King tide' is not a scientific term, it is used to describe an especially high Spring tide event that occurs twice every year, when the earth is closest to the Sun (perihelion) or Moon (perigee).
2. A King tide is not more than the very highest tide that occurs at each place.
3. King tides occur naturally and regularly, are predictable and expected, though not an everyday occurrence.
4. When King tides occur during cyclones, floods or storms, water levels can rise to higher levels and have the potential to cause great damage to property and the coastline.

1.4 METHODS OF PREDICTION

1. Predictions for standard ports are based on continuous observations of the tide over a period of at least one year, for average meteorological conditions.
2. When conditions are not average, the actual tides may differ from those predicted. Under extreme meteorological conditions, these differences can be very large.
3. Predictions for secondary ports are extremely variable in quality. Predictions may be based upon as little as a few observations over two days up to a period of at least one month. Mariners are advised to use caution using predictions for secondary ports without local knowledge.

1.5 METEOROLOGICAL EFFECTS ON TIDES

1. Meteorological conditions, which differ from the average, will cause corresponding differences between the predicted and the actual tides.
2. Variations from predicted heights are caused mainly by strong or prolonged winds, and by unusually high or low barometric pressure. Differences between predicted and actual times of high and low water are mainly caused by the wind.

1.5.1 THE EFFECT OF WIND

1. The effect of wind on sea level and tidal heights and times is variable and depends largely on the topography of the area.
2. In general, wind will raise sea level in the direction towards which it is blowing; this effect is called wind setup.
3. A strong wind blowing onshore will pile up the water and cause 'high waters' to be higher than predicted, while winds blowing off the land will have the reverse effect. Winds blowing along a coast tend to set up long waves which travel along the coast, raising the sea level at the crest and lowering it in the trough. These are called Coastally-Trapped Waves (CTW). Departures from predicted tides caused by CTW are particularly marked in the coastal waters adjacent to the Great Australian Bight, and in the winter half-year. In one instance, the negative anomaly at Thevenard exceeded 0.4 metres, and the positive anomaly exceeded 0.8 metres.

1.5.2 BAROMETRIC PRESSURE

1. Tidal predictions are computed for average barometric pressure. A difference of 10 hectopascals (hPa) from the average can cause a difference in sea level of about 0.1m.
2. This depression of the water surface under high atmospheric pressure, and its elevation under low atmospheric pressure, is often described as the inverted barometer effect. The water level does not adjust itself immediately to a change of pressure, and responds to the average change in pressure over a considerable area.
3. The average barometric pressure and information concerning changes in sea level under different conditions is given in Admiralty Sailing Directions.
4. Changes in sea level due to barometric pressure rarely exceed 0.3m, but their effect can be important as they are usually associated with those caused by wind setup, since winds are driven by the pressure gradient.

1.5.3 STORM SURGES

1. The combination of wind setup and the inverted barometer effect associated with storms can create a pronounced increase in sea level. This is called a storm surge.

2. Additionally, a long surface wave travelling with the storm depression can further exaggerate this sea level increase.

3. A negative surge is the opposite effect. Negative surges are generally associated with high-pressure systems and offshore winds and can create unusually shallow water. This effect is of great importance to very large vessels navigating with small under keel clearances.

1.5.4 SEASONAL EFFECTS

1. Monthly seasonal variations in Mean Sea Level (MSL) of 0.1m may typically be experienced, occasionally reaching as much as 0.3m. In addition, oceanographic effects such as Southern Oscillation Index (El Niño/ La Niña) can produce large scale variations in MSL of up to 0.5m with corresponding changes in rate and direction of tidal streams.

1.6 PHASES OF THE MOON

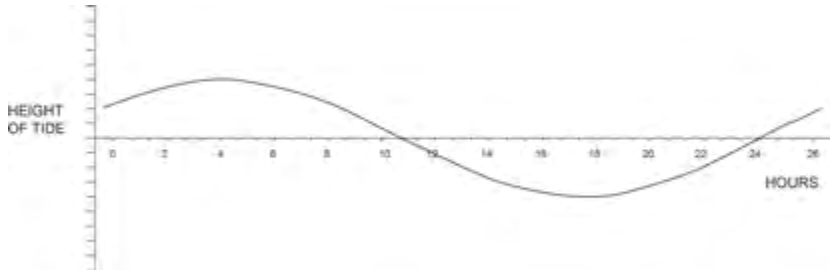
1. The following symbols are used in Chapter 3 and Chapter 4 to indicate moon phases:
   - ● New Moon
   - ○ Full Moon
   - ◑ First Quarter
   - ◐ Last Quarter

2. Moon phases are shown in Standard Time (ST) for all standard ports.

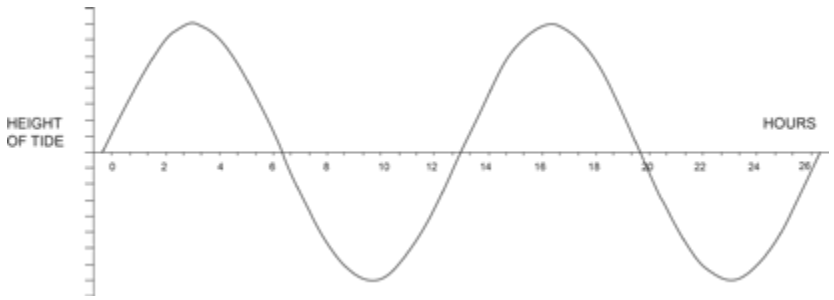
1.7 CRITERIA FOR DIURNAL AND SEMI-DIURNAL TIDES

1. All tides are composed of both diurnal and semi-diurnal components, which can be represented as cosine waves as illustrated in the following diagram:

Diurnal



Semi-Diurnal



2. These components introduce inequality in successive heights and time intervals of high or low water. When this diurnal inequality reaches a certain limit, it is more informative to list the average heights for each of the higher and lower high waters, and each of the higher and lower low waters, rather than the average spring and neap values.

3. In these tables, the following criteria are used:
   - when (K1 + O1)/(M2 + S2) is less than or equal to 0.5, the tide is considered to be semi-diurnal
   - when (K1 + O1)/(M2 + S2) is greater than 0.5, the tide is considered to be diurnal.

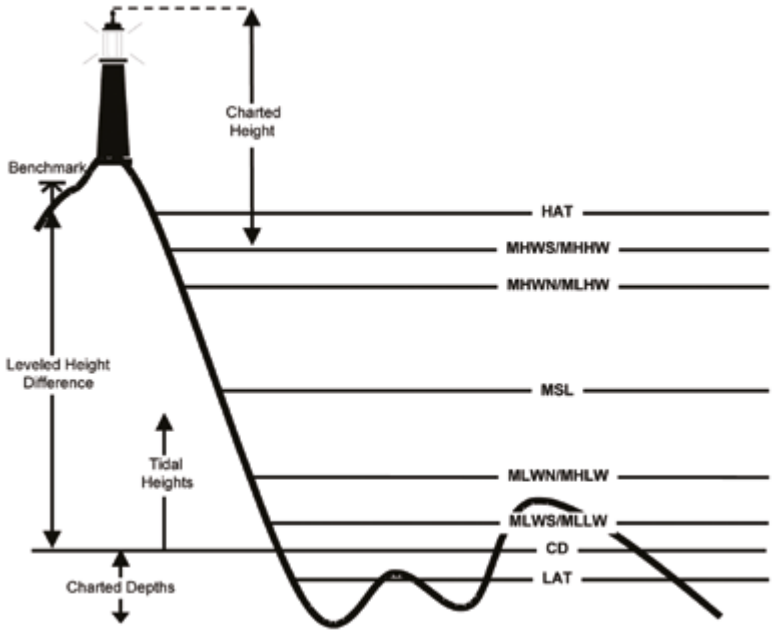
4. In some areas, these formulae are unsatisfactory and a more detailed study of the harmonic constituents is necessary to determine tidal characteristics.

1.8 TIDAL LEVELS

1. The terms used for tidal levels are as follows:

Acronym	Title	Description
HAT	Highest Astronomical Tide	The highest level that can be predicted to occur under average meteorological conditions and under any combination of astronomical conditions.
LAT	Lowest Astronomical Tide	The lowest level which can be predicted to occur under average meteorological conditions and under any combination of astronomical conditions.
MHWS	Mean High Water Springs	The average of all high water observations at the time of spring tide over a period of time (preferably 19 years).
MLWS	Mean Low Water Springs	The average of all low water observations at the time of spring tide over a period of time (preferably 19 years).
MHWN	Mean High Water Neaps	The average of all high water observations at the time of neap tide over a period of time (preferably 19 years).
MLWN	Mean Low Water Neaps	The average of all low water observations at the time of neap tide over a period of time (preferably 19 years).
MSL	Mean Sea Level	The average level of the sea surface over a long period of time (preferably 19 years), or the average level which would exist in the absence of tides.
MHHW	Mean Higher High Water	The average of the higher of the two daily high waters over a period of time (preferably 19 years).
MLHW	Mean Lower High Water	The average of the lower of the two daily high waters over a period of time (preferably 19 years).
MHLW	Mean Higher Low Water	The average of the higher of the two daily low waters over a period of time (preferably 19 years).
MLLW	Mean Lower Low Water	The average of the lower of the two daily low waters over a period of time (preferably 19 years).
ISLW	Indian Springs Low Water	The elevation depressed below mean sea level by the amount equal to the sum of amplitudes of the four main harmonic constituents: M2, S2, K1 and O1.
CD	Chart Datum	The level to which all charted depths and drying heights are referred. Details are provided on all Australian produced Paper Nautical Charts (PNC) and within the metadata of all Australian produced Electronic Navigational Charts (ENC).

2. The diagram below shows a typical relationship between tidal levels and Chart Datum (CD):



3. Tidal levels used throughout this publication are derived using the following simplified formulae when not based on observations:

For diurnal ports (defined at Section 1.7):	For semi-diurnal ports (defined at Section 1.7):
MHHW = Z0 + (M2 + K1 + O1)	MHWS = Z0 + (M2 + S2)
MLHW = Z0 + abs(M2 − (K1 + O1))	MHWN = Z0 + abs(M2 − S2)
MHLW = Z0 − abs(M2 − (K1 + O1))	MLWN = Z0 − abs(M2 − S2)
MLLW = Z0 − (M2 + K1 + O1)	MLWS = Z0 − (M2 + S2)
ISLW = Z0 − (M2 + S2 + K1 + O1)	ISLW = Z0 − (M2 + S2 + K1 + O1)

4. Chapter 4 lists the tidal levels for all standard and secondary ports. Tidal levels in Chapter 1 are referred to LAT, which is the datum for the majority of Australian charts.

5. Tidal levels for standard ports are subject to re-examination from time to time; due to changes in MSL, they do not necessarily remain constant.

6. Harmonic Constants for tidal ports and table of angles and factors are no longer published within all tide tables published by the AHO. They will be made available on request to the AHO through email:

Email:	hydro.licensing@defence.gov.au

1.9 DATUMS FOR PREDICTIONS

1. Predictions for all ports are referenced to LAT, which is the CD for almost all charts published by the AHO.

2. For locations where the largest-scale ENC is not referenced to LAT, a correction will be required to be mathematically added to predicted tidal heights.

3. Corrections for standard ports are listed in Chapter 3, and for secondary ports in Chapter 4. As PNC are derived from ENC, corrections for PNC are assumed to be the same as the ENC.

4. Predictions for secondary ports are extremely variable in quality. Predictions may be based upon as little as a few observations over two days up to a period of at least one month. Mariners are advised to use caution using predictions for secondary ports without local knowledge.

1.10 TIMES FOR PREDICTIONS

1. The times of predictions for standard ports in Chapter 3 are given in the Standard Time (ST) kept by the port.

2. Tabulated time differences for secondary ports account for any difference in ST kept between the secondary port and the designated standard port.

1.11 TIDAL STREAMS AND CURRENTS

1. A distinction is drawn between tidal streams that are astronomical in origin, and currents that are not dependent on astronomical factors. In practice, the navigator usually experiences a combination of current and tidal stream. Like tidal heights, tidal streams can be predicted, but currents must be assessed from information published on charts and in Admiralty Sailing Directions.

2. When the tidal streams are semi-diurnal in character they can be predicted by reference to a suitable standard port using tables embedded in the ENC or printed on PNC. This procedure is not possible in the areas where the diurnal inequality of the tidal streams is large.

1.11.1 TIDAL STREAM PREDICTIONS IN TIDE TABLES

1. There are insufficient observations in Papua New Guinea (PNG) waters to confidently predict tidal streams. Mariners should refer to information included in the relevant chart. Vessels using Torres Strait should note that predictions are available for the following locations:

- Torres Strait, Queensland (QLD) - Varzin Passage, Harrison Rock, Hammond Rock, Mecca Reef North, Nardana Patches and Alert Patches.

1.11.2 TIDAL STREAM PREDICTIONS ON CHARTS

1. ENC and PNC contain tables for tidal streams at selected locations which are referenced to a standard port. These tables list the rate and direction in hourly increments before and after high water for the nominated standard port.

1.12 UNDER KEEL CLEARANCE MANAGEMENT SYSTEM IN TORRES STRAIT

1. An Under Keel Clearance Management (UKCM) System is operated in Torres Strait by the Australian Maritime Safety Authority (AMSA).
2. It is a web-based system that allows vessel operators and coastal pilots to plan and monitor the safe and efficient transit of deep draught vessels through Gannet Passage, Varzin Passage and Prince of Wales Channel in Torres Strait.
3. For more information, refer to AHP20, Mariner's Handbook for Australian Waters, or visit the AMSA website.

Website page:	http://www.amsa.gov.au/safety-navigation/navigation-systems/under-keel-clearance-management

1.13 TORRES STRAIT TRANSMITTING TIDE AND CURRENT GAUGES

1. A network of transmitting tide and current gauges are available to assist vessels transiting through Torres Strait, to be used in conjunction with the UKCM System. Actual tidal heights and current speed may differ significantly from predicted rates due to meteorological effects and changes in MSL.

1.13.1 TRANSMISSION FORMAT

1. The transmission of tidal and current data is broadcast on VHF Marine Channel 68 (156.425 MHz) by an automated voice message.
2. All broadcasts are made from the Hammond Island radio transmitter and radar tower on Hammond Hill (152m, located 0.5 miles SSE of Turtle Head Lighthouse). The nominal range is 24 miles. Where line of sight to Hammond Hill is obscured reception may be lost.
3. The five transmitting tide gauges and one transmitting current meter are at the following locations:

Name	Station Identifier	Position (World Geodetics System (WGS84))	Hours of Operation
Booby Island (tidal height)	Booby Island tide	10° 36' 09'' S 141° 54' 36'' E	H 24
Goods Island (tidal height)	Goods Island tide	10° 33' 53'' S 142° 08' 44'' E	H 24
Turtle Head (tidal height) (Hammond Island)	Turtle Head tide	10° 31' 14'' S 142° 12' 47'' E	H 24
Nardana Patches (tidal height) Nardana Patches (tidal stream)	Nardana tide Nardana stream	10° 30' 17'' S 142° 14' 38'' E	H 24
Ince Point (Wednesday Island)	Ince Point tide	10° 30' 51'' S 142° 18' 17'' E	H 24

4. The tidal data is broadcast in the sequence listed in the table above.
5. For each tide station, the broadcast includes:
   - the station identifier
   - the height of tide to two decimal places.
6. For the Nardana tidal stream station, the broadcast includes:
   - the station identifier
   - the direction and velocity of the tidal stream to one decimal place.

7. Following the Ince Point tidal data transmission, there is a three-second interval of no radio transmission.

8. The broadcast is repeated on a loop, recommencing with Booby Island, then all others in the same sequence. Tidal data is updated every two minutes.

9. If no data is available from a tidal station, the message 'no data available' will be broadcast after the respective station identifier.

10. Examples of broadcast tidal height signals for each transmitting gauge are outlined below:

Tidal reading	Radio transmission
Booby Island tide 1.82m	Booby Island tide is one point eight two metres
Goods Island tide 1.34m	Goods Island tide is one point three four metres
Turtle Head tide 1.02m	Turtle Head tide is one point zero two metres
Nardana Patches tide 1.24m	Nardana tide is one point two four metres
Nardana Patches stream 1.9 knots (west-going)	Nardana stream is west-going at one point nine knots
Ince Point tide 1.20m	Ince point tide is one point two zero metres

11. Tidal streams directions at Nardana Patches are generally linear:

- East-going – approximately 080°
- West-going – approximately 260°

1.14 TIDAL BORES - GULF OF PAPUA

1. In the Gulf of Papua, a tidal bore occurs at springs in the lower reaches of most rivers along the coastline.

1.15 PAPUA NEW GUINEA PAPER NAUTICAL CHARTS

1. PNC covering PNG waters have been renamed as 'PNG' charts. This replaces the previous 'AUS' chart identifiers. The chart 'number' remains unchanged.

2. Small scale INT charts covering PNG waters remain labelled as 'AUS', in addition to their 'INT' chart number.

3. It should be noted that PNC use the United Nations three letter national identifier system, hence 'PNG'.

1.16 PAPUA NEW GUINEA ELECTRONIC NAVIGATION CHARTS

1. ENC covering PNG waters have been renamed as 'PG' ENC. This replaces the previous 'AU' identifiers. The ENC 'number' remains unchanged.

2. PG ENC are available through:

- AUS ENC service - Coastal Pack 17

Website:	http://www.hydro.gov.au/prodserv/digital/ausENC/enc.htm

- International Centre for ENC (IC-ENC) via any of the commercial distributors listed on the IC-ENC website.

Website:	http://www.ic-enc.org/distribution

3. Please note that ENC use the United Nations two letter national identifier system, hence 'PG'.

Notes:

CHAPTER 2 INSTRUCTIONS FOR USE

2.1 CALCULATING TIMES AND HEIGHTS OF HIGH AND LOW WATERS

2.1.1 STANDARD PORTS

1. The times and heights of High Water (HW) and Low Water (LW) are tabulated for every day of the year.
2. The time zone used for the predicted times is the Standard Time (ST) for the location and is given at the top of each page.
3. The heights are shown in metres referred to Lowest Astronomical Tide (LAT). If the Chart Datum (CD) is not LAT, a correction is required.
4. Corrections to align predictions to CD of the largest scale Australian produced Electronic Navigational Charts (ENC) and Paper Nautical Charts (PNC) are contained in Chapter 5.

2.1.2 SECONDARY PORTS

1. The times of HW and LW are obtained by applying the time differences tabulated in Chapter 4 to the daily predictions for the designated standard port. The standard port to be used is shown in bold type at the head of the relevant subsection in Chapter 4.
2. A negative time difference will give an earlier time than predicted for the standard port, and a positive one a later time.
3. The times obtained by applying these corrections will be for the ST observed in the secondary port, irrespective of the ST zone used for the standard port predictions.
4. The heights of HW and LW are obtained by correcting the predictions for the designated standard port using the range ratio obtained from the tidal levels data for standard and secondary ports. Depending upon the tidal characteristics for a location, these calculations are based upon the following:
   - predominantly diurnal tides - Mean Higher High Water (MHHW) and Mean Lower Low Waters (MLLW) are used
   - predominantly semi-diurnal tides - Mean Spring Levels (MSL) are used.
5. The resulting tidal height prediction will be referenced to LAT. Mariners should then refer to Chapter 5 to determine if a correction is required for ports where the largest scale ENC or PNC is not referenced to LAT.
6. As predictions for the reference standard port include seasonal variations, they are allowed for in the final result for the secondary port. Seasonal variations do not need to be applied separately when using the method described below.
7. The method used to obtain the times and heights of HW and LW at secondary ports is explained in detail in the examples on the following pages.

2.1.3 EXAMPLE 1 – SECONDARY PORT – SEMI-DIURNAL TIDES

1. Find the times and heights of HW and LW at 'secondary port' (predominantly semi-diurnal area) on 1 February (Note that the data used for this example does not refer to the year of these tables nor to any particular port).

Extract from Chapter 4 secondary ports table:

PORT No.	PORT NAME	GEOGRAPHICAL POSITION		MEAN TIME DIFFERENCE	TIDAL LEVELS (metres, ref. to LAT)						To CHART DATUM (m)	SOURCE	Remarks See page
					HAT	MHWS	MHWN	MSL	MLWN	MLWS			
91000	**STANDARD PORT**	**10° 28´S**	**142° 26´E**	**TZ -1000 (EST)**	**8.1**	**6.8**	**5.1**	**4.09**	**3.1**	**1.5**	**NA**	**STANDARD PORT**	*o*
91111	SECONDARY PORT	10° 10´S	142° 31´E	+0015	7.2	6.1	4.6	3.88	3.2	1.7	0.0	HYDRO 1941 MSQ	

Extract from Chapter 3 standard ports table for required day:

	FEBRUARY	
	Time	m
1	0338	5.8
	0958	3.7
SA	1441	5.2
	2121	0.9

Complete the calculation form for semi-diurnal tides:

	(1) Time HW	(1) Time LW	(2) Height HW	(2) Height LW	(3) MSL	(4) Levels MHWS	(4) Levels MLWS	(5) Levels Range MHWS - MLWS
Standard Port Data	**0338** **1441**	**0958** **2121**	**5.8** **5.2**	**3.7** **0.9**	**4.1**	**6.8**	**1.5**	**5.3**
(6) Predicted Height - MSL (2) - (3)			**1.7** **1.1**	**-0.4** **-3.2**				
Secondary Port Data	(7) Mean Time Difference				(8) MSL	(9) MHWS	(9) MLWS	(10) Levels Range MHWS - MLWS
	+0015				**3.9**	**6.1**	**1.7**	**4.4**
(12) Calculation (6)*(11)			**1.4** **0.9**	**-0.3** **-2.7**				(11) Range Ratio (10) / (5) **0.83**
(13) To chart datum			**-0.2**					
Secondary Port Results	(14) **Time** (1) + (7)		(15) **Height** (8)+(12)+(13)					
	0353 **1456**	**1013** **2136**	**5.1** **4.6**	**3.4** **1.0**				

Step	Instruction – semi-diurnal tides
1	Obtain predicted times and heights of HW and LW at the standard port from Chapter 3, enter them in Box 1 (times) and 2 (heights).
2	Obtain MSL and spring levels for the standard port from Chapter 4, enter them in Box 3 (MSL) and Box 4 (MHWS and MLWS).
3	Subtract the MLWS value from that of MHWS for the standard port, enter the result in Box 5 (levels range).
4	Subtract the MSL value for the standard port in Box 3 from the height predictions in Box 2, enter results in Box 6. The HW column should have positive values, the LW column should have negative values.
5	Obtain data for the secondary port from Chapter 4, enter the mean time difference in Box 7, MSL in Box 8, MHWS and MLWS in Box 9.

6	Subtract the MLWS value from that of MHWS for the secondary port, enter the result in Box 10 (levels range).
7	Obtain the range ratio by dividing the secondary port levels range in Box 10 by the standard port in Box 5, enter the result in Box 11.
8	Multiply the figures in Box 6 by the range ratio in Box 11, enter the corresponding products in Box 12.
9	Obtain the correction to CD from Chapter 5, enter in Box 13.
10	Add the mean time difference for the secondary port in Box 7 to all predicted times for the standard port in Box 1, enter the results in Box 14. THESE ARE THE TIMES OF HIGH AND LOW WATER FOR THE SECONDARY PORT.
11	Add the values in Box 12 and Box 13 to the MSL value for the secondary port in Box 8, enter the results in Box 15. THESE ARE THE HEIGHTS OF HIGH AND LOW WATER FOR THE SECONDARY PORT.

2.1.4 EXAMPLE 2 – SECONDARY PORT – DIURNAL TIDES

1. Find the times and heights of HW and LW at 'secondary port' (predominantly semi-diurnal area) on 1 April. (Note that the data used for this example does not refer to the year of these tables nor to any particular port).

Extract from Chapter 4 secondary ports table:

PORT No.	PORT NAME	GEOGRAPHICAL POSITION		MEAN TIME DIFFERENCE	TIDAL LEVELS (metres, ref. to LAT)						To CHART DATUM (m)	SOURCE	Remarks See page
					HAT	MHHW	MLHW	MSL	MHLW	MLLW			
92000	**STANDARD PORT**	**20° 30′S**	**140° 50′E**	**TZ -1000 (EST)**	**1.9**	**1.5**	**1.0**	**0.90**	**0.7**	**0.2**	**NA**	**STANDARD PORT**	*o*
92222	SECONDARY PORT	19° 4′S	139° 10′E	-0120	2.0	1.7	1.1	1.01	0.9	0.2	0.4	HYDRO 1941 MSQ	

Extract from Chapter 3 standard port predictions:

	APRIL	
	Time	m
1	0246	1.8
	0918	0.4
SA	1512	1.4
	2050	0.5

Complete the calculation form for diurnal tides:

	(1) Time		(2) Height		(3) MSL	(4) Levels		(5) Levels Range
Standard Port Data	HW	LW	HW	LW		MHHW	MLLW	MHHW - MLLW
	0246	**0918**	**1.8**	**0.4**	**0.9**	**1.5**	**0.2**	**1.3**
	1512	**2050**	**1.4**	**0.5**				
(6) Predicted Height - MSL (2) - (3)			**0.9**	**-0.5**				
			0.5	**-0.4**				

Secondary Port Data	(7) Mean Time Difference	(8) MSL	(9) MHHW	(9) MLLW	(10) Levels Range MHHW - MLLW
	-0120	**1.0**	**1.7**	**0.2**	**1.5**

(12) Calculation (6)*(11)			(11) Range Ratio (10) / (5)
1.0	**-0.6**		
0.6	**-0.5**		**1.15**

(13) To Chart Datum	+0.4	

Secondary Port Results	(14) **Time** (1) + (7)		(15) **Height** (8)+(12)+(13)	
	0126	**0758**	**2.4**	**0.8**
	1352	**1930**	**2.0**	**0.9**

Step	Instruction – diurnal tides
1	Obtain predicted times and heights of HW and LW at the standard port from Chapter 3, enter them in Box 1 (times) and 2 (heights).
2	Obtain MSL and spring levels for the Standard Port from Chapter 4, enter them in Box 3 (MSL) and Box 4 (MHWS and MLWS).
3	Subtract the MLLW value from that of MHHW for the standard port, enter the result in Box 5 (levels range).
4	Subtract the MSL value for the standard port in Box 3 from the height predictions in Box 2, enter results in Box 6. The HW column should have positive values, the LW column should have negative values.
5	Obtain data for the secondary port from Chapter 4, enter the mean time difference in Box 7, MSL in Box 8, MHHW and MLLW in Box 9.

6	Subtract the MLLW value from that of MHHW for the secondary port, enter the result in Box 10 (levels range).
7	Obtain the range ratio by dividing the secondary port levels range in Box 10 by the standard port in Box 5, enter the result in Box 11.
8	Multiply the figures in Box 6 by the range ratio in Box 11, enter the corresponding products in Box 12.
9	Obtain the correction to CD from Chapter 5, enter in Box 13.
10	Add the mean time difference for the secondary port in Box 7 to all predicted times for the standard port in Box 1, enter the results in Box 14. THESE ARE THE TIMES OF HIGH AND LOW WATER FOR THE SECONDARY PORT.
11	Add the values in Box 12 and Box 13 to the MSL value for the secondary port in Box 8, enter the results in Box 15. THESE ARE THE HEIGHTS OF HIGH AND LOW WATER FOR THE SECONDARY PORT.

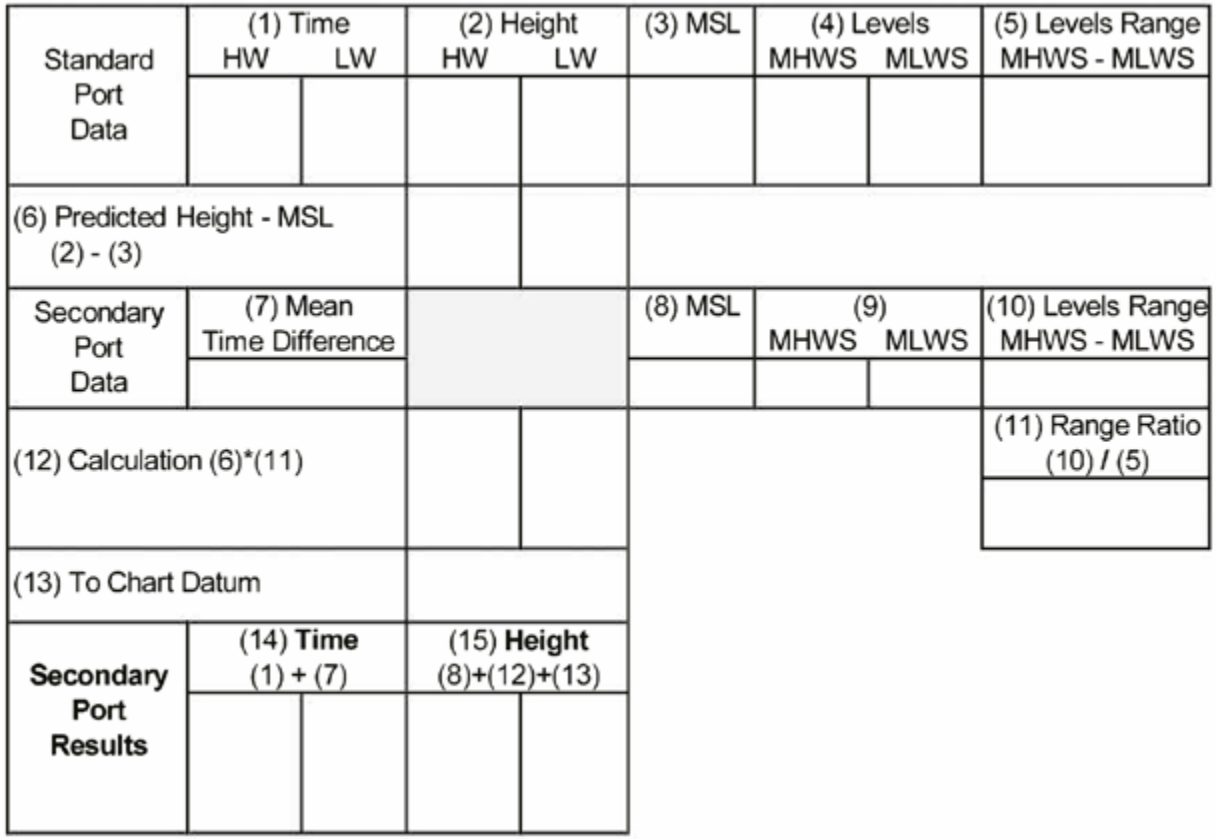
2.1.5 FORMS FOR CALCULATING HIGH WATER AND LOW WATER TIMES AND HEIGHTS AT SECONDARY PORTS

1. Blank forms for calculating the times and heights of HW and LW at both diurnal and semi-diurnal secondary ports are provided on the following pages.
2. Separate copies of these forms may be downloaded from the Fact Sheets (FS) section of the AHO website at www.hydro.gov.au.

AHO Fact Sheets: FS Navigation – Tides – Calculating HW and LW at secondary ports FS Navigation – Tides – Diagram for interpolating tide times and heights	http://hydro.gov.au/factsheets/factsheets.htm

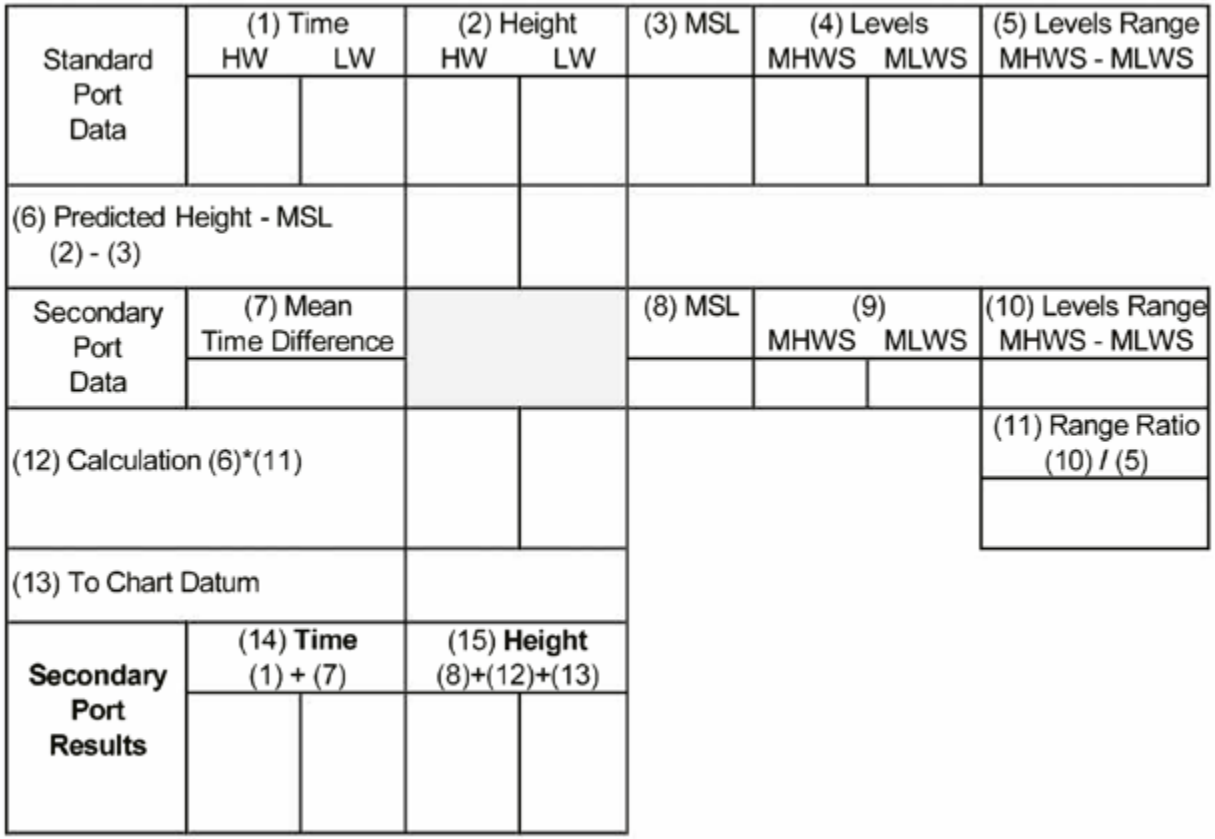
Form for semi-diurnal tides

Step	Instruction – semi-diurnal tides
1	Obtain predicted times and heights of HW and LW at the standard port from Chapter 3, enter them in Box 1 (times) and 2 (heights).
2	Obtain MSL and spring levels for the standard port from Chapter 4, enter them in Box 3 (MSL) and Box 4 (MHWS and MLWS).
3	Subtract the MLWS value from that of MHWS for the standard port, enter the result in Box 5 (levels range).
4	Subtract the MSL value for the standard port in Box 3 from the height predictions in Box 2, enter results in Box 6. The HW column should have positive values, the LW column should have negative values.
5	Obtain data for the secondary port from Chapter 4, enter the mean time difference in Box 7, MSL in Box 8, MHWS and MLWS in Box 9.
6	Subtract the MLWS value from that of MHWS for the secondary port, enter the result in Box 10 (levels range).
7	Obtain the range ratio by dividing the secondary port levels range in Box 10 by the standard port in Box 5, enter the result in Box 11.
8	Multiply the figures in Box 6 by the range ratio in Box 11, enter the corresponding products in Box 12.
9	Obtain the correction to CD from Chapter 5, enter in Box 13.
10	Add the mean time difference for the secondary port in Box 7 to all predicted times for the standard port in Box 1, enter the results in Box 14. THESE ARE THE TIMES OF HIGH AND LOW WATER FOR THE SECONDARY PORT.
11	Add the values in Box 12 and Box 13 to the MSL value for the secondary port in Box 8, enter the results in Box 15. THESE ARE THE HEIGHTS OF HIGH AND LOW WATER FOR THE SECONDARY PORT.



Form for semi-diurnal tides

Step	Instruction – semi-diurnal tides
1	Obtain predicted times and heights of HW and LW at the standard port from Chapter 3, enter them in Box 1 (times) and 2 (heights).
2	Obtain MSL and spring levels for the standard port from Chapter 4, enter them in Box 3 (MSL) and Box 4 (MHWS and MLWS).
3	Subtract the MLWS value from that of MHWS for the standard port, enter the result in Box 5 (levels range).
4	Subtract the MSL value for the standard port in Box 3 from the height predictions in Box 2, enter results in Box 6. The HW column should have positive values, the LW column should have negative values.
5	Obtain data for the secondary port from Chapter 4, enter the mean time difference in Box 7, MSL in Box 8, MHWS and MLWS in Box 9.
6	Subtract the MLWS value from that of MHWS for the secondary port, enter the result in Box 10 (levels range).
7	Obtain the range ratio by dividing the secondary port levels range in Box 10 by the standard port in Box 5, enter the result in Box 11.
8	Multiply the figures in Box 6 by the range ratio in Box 11, enter the corresponding products in Box 12.
9	Obtain the correction to CD from Chapter 5, enter in Box 13.
10	Add the mean time difference for the secondary port in Box 7 to all predicted times for the standard port in Box 1, enter the results in Box 14. THESE ARE THE TIMES OF HIGH AND LOW WATER FOR THE SECONDARY PORT.
11	Add the values in Box 12 and Box 13 to the MSL value for the secondary port in Box 8, enter the results in Box 15. THESE ARE THE HEIGHTS OF HIGH AND LOW WATER FOR THE SECONDARY PORT.



Form for diurnal tides

Step	Instruction – diurnal tides
1	Obtain predicted times and heights of HW and LW at the standard port from Chapter 3, enter them in Box 1 (times) and 2 (heights).
2	Obtain MSL and spring levels for the Standard Port from Chapter 4, enter them in Box 3 (MSL) and Box 4 (MHWS and MLWS).
3	Subtract the MLLW value from that of MHHW for the standard port, enter the result in Box 5 (levels range).
4	Subtract the MSL value for the standard port in Box 3 from the height predictions in Box 2, enter results in Box 6. The HW column should have positive values, the LW column should have negative values.
5	Obtain data for the secondary port from Chapter 4, enter the mean time difference in Box 7, MSL in Box 8, MHHW and MLLW in Box 9.
6	Subtract the MLLW value from that of MHHW for the secondary port, enter the result in Box 10 (levels range).
7	Obtain the range ratio by dividing the secondary port levels range in Box 10 by the standard port in Box 5, enter the result in Box 11.
8	Multiply the figures in Box 6 by the range ratio in Box 11, enter the corresponding products in Box 12.
9	Obtain the correction to CD from Chapter 5, enter in Box 13.
10	Add the mean time difference for the secondary port in Box 7 to all predicted times for the standard port in Box 1, enter the results in Box 14. THESE ARE THE TIMES OF HIGH AND LOW WATER FOR THE SECONDARY PORT.
11	Add the values in Box 12 and Box 13 to the MSL value for the secondary port in Box 8, enter the results in Box 15. THESE ARE THE HEIGHTS OF HIGH AND LOW WATER FOR THE SECONDARY PORT.

Standard Port Data	(1) Time HW	(1) Time LW	(2) Height HW	(2) Height LW	(3) MSL	(4) Levels MHHW	(4) Levels MLLW	(5) Levels Range MHHW - MLLW
(6) Predicted Height - MSL (2) - (3)								
Secondary Port Data	(7) Mean Time Difference				(8) MSL	(9) MHHW	(9) MLLW	(10) Levels Range MHHW - MLLW
(12) Calculation (6)*(11)								(11) Range Ratio (10) / (5)
(13) To Chart Datum								
Secondary Port Results	(14) **Time** (1) + (7)		(15) **Height** (8)+(12)+(13)					

Form for diurnal tides

Step	Instruction – diurnal tides
1	Obtain predicted times and heights of HW and LW at the standard port from Chapter 3, enter them in Box 1 (times) and 2 (heights).
2	Obtain MSL and spring levels for the Standard Port from Chapter 4, enter them in Box 3 (MSL) and Box 4 (MHWS and MLWS).
3	Subtract the MLLW value from that of MHHW for the standard port, enter the result in Box 5 (levels range).
4	Subtract the MSL value for the standard port in Box 3 from the height predictions in Box 2, enter results in Box 6. The HW column should have positive values, the LW column should have negative values.
5	Obtain data for the secondary port from Chapter 4, enter the mean time difference in Box 7, MSL in Box 8, MHHW and MLLW in Box 9.
6	Subtract the MLLW value from that of MHHW for the secondary port, enter the result in Box 10 (levels range).
7	Obtain the range ratio by dividing the secondary port levels range in Box 10 by the standard port in Box 5, enter the result in Box 11.
8	Multiply the figures in Box 6 by the range ratio in Box 11, enter the corresponding products in Box 12.
9	Obtain the correction to CD from Chapter 5, enter in Box 13.
10	Add the mean time difference for the secondary port in Box 7 to all predicted times for the standard port in Box 1, enter the results in Box 14. THESE ARE THE TIMES OF HIGH AND LOW WATER FOR THE SECONDARY PORT.
11	Add the values in Box 12 and Box 13 to the MSL value for the secondary port in Box 8, enter the results in Box 15. THESE ARE THE HEIGHTS OF HIGH AND LOW WATER FOR THE SECONDARY PORT.

Standard Port Data	(1) Time HW	(1) Time LW	(2) Height HW	(2) Height LW	(3) MSL	(4) Levels MHHW	(4) Levels MLLW	(5) Levels Range MHHW - MLLW
(6) Predicted Height - MSL (2) - (3)								
Secondary Port Data	(7) Mean Time Difference				(8) MSL	(9) MHHW	(9) MLLW	(10) Levels Range MHHW - MLLW
(12) Calculation (6)*(11)								(11) Range Ratio (10) / (5)
(13) To Chart Datum								
Secondary Port Results	(14) **Time** (1) + (7)		(15) **Height** (8)+(12)+(13)					

2.2 CALCULATING TIMES OR HEIGHTS BETWEEN HIGH AND LOW WATERS USING A COMPUTER

1. Times and heights between HW and LW of standard ports and secondary ports can be interpolated by using a calculator or computer provided that the duration of rise or fall is between 5 to 7 hours. If the period of rise or fall is outside this range, the tidal curve is likely to be distorted.

2.2.1 CALCULATING HEIGHT OF TIDE FOR A GIVEN TIME

1. If t_1 and h_1 denote the time and height of tide (high or low) immediately preceding time t and t_2 and h_2 denote the height of the tide (high or low) immediately following, then the height at time t is given by the following formula:

$h = h_1 + (h_2 - h_1)(\cos A + 1)/2$ where $A = \pi[(t - t_1)/(t_2 - t_1) + 1]$ radians
Note 1: On falling tides $(h_2 - h_1)$ will be negative. Note 2: t, t_1 and t_2 are in decimal hours.

2.2.2 CALCULATING TIME FOR A GIVEN HEIGHT OF TIDE

1. With t_1, h_1, t_2, h_2 defined as above, the intermediate time t when the tide is at a given height h, can be calculated from the following formula:

$t = t_1 + (t_2 - t_1)(A/\pi - 1)$ where $A = 2\pi$ - acos $[2(h - h_1)/(h_2 - h_1) - 1]$ radians
Note 1: On falling tides $(h - h_1)$ and $(h_2 - h_1)$ will be negative. Note 2: t, t_1 and t_2 are in decimal hours. Note 3: It is presumed that the range of the acos function is $[0, \pi]$.

2.2.3 AUSTIDES

1. Mariners should note that AusTIDES may be used to derive a range of tidal information without any need for calculation, including:
   - Times and heights of HW and LW at standard ports
   - Times and heights of HW and LW at secondary ports
   - Height of tide for a given time for all standard and secondary ports
   - Time windows for a required height of tide for all standard and secondary ports
   - Incremental times and heights at a range of Standard Time intervals for all standard and secondary ports
   - Graphical display of the tidal curve for all standard and secondary ports.
   - See AusTIDES website for more information www.hydro.gov.au/publications/ausTides/tides.htm

2.3 CALCULATING TIMES OR HEIGHTS BETWEEN HIGH AND LOW WATERS USING GRAPHICAL INTERPOLATION

1. Times and heights between HW and LW at standard ports and secondary ports can be interpolated by using a graph provided that the duration of rise or fall is between 5 to 7 hours. If the period of rise or fall is outside this range, the tidal curve is likely to be distorted.
2. Separate copies of the tides interpolation graph may be downloaded from the Fact Sheets section of the

AHO website at www.hydro.gov.au.

2.3.1 EXAMPLE 3 - STANDARD PORT - INTERMEDIATE TIDES

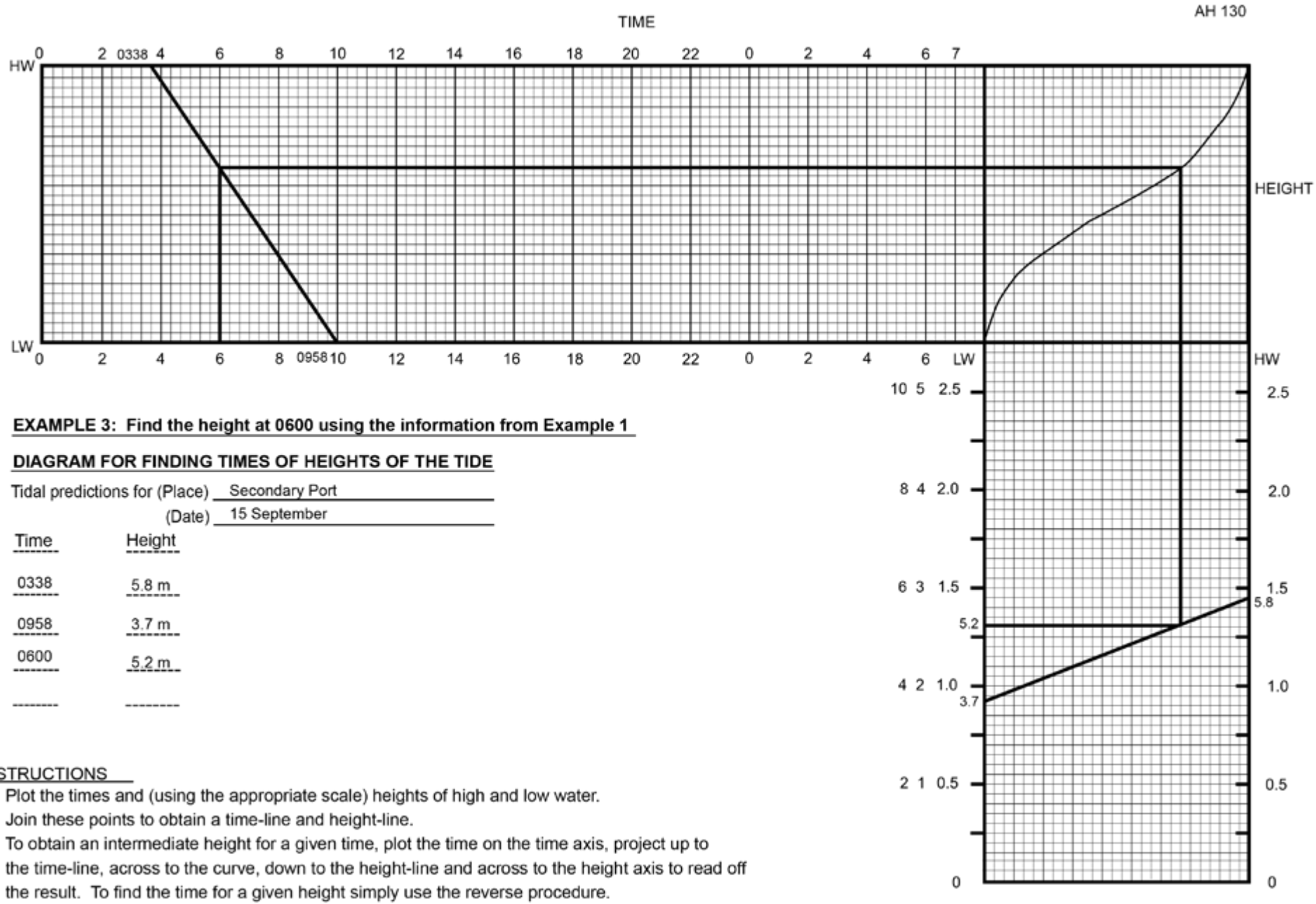
1. Find the height of tide at 0600 at 'standard port' on 1 February. (Note that the data used for this example does not refer to the year of these tables nor to any particular port).

Extract from Chapter 3 standard ports table for required day:

	FEBRUARY	
	Time	m
1	0338	5.8
	0958	3.7
SA	1441	5.2
	2121	0.9

Complete the graphical interpolation form:

Step	Instruction
1	i) Plot the time of HW on the time axis marked HW ii) Plot the time of LW on the time axis marked LW iii) Connect these two points by a straight line called the 'time-line'. Note: Hours from 0000-0700 are repeated on the right-hand side of the scale for use when midnight (0000) falls between HW and LW.
2	i) Choose an appropriate height scale (0-2.5m, 0-5m or 0-10m) ii) Plot the height of HW on the height axis marked HW iii) Plot the height of LW on the axis marked LW iv) Connect these two points by a straight line called the 'height-line'.
3	To find the height of tide for a given intermediate time: i) Plot the time on the LW time axis ii) Project it up to the time-line iii) Across to the cosine curve iv) Down to the height-line v) Across to the LW height axis vi) Read height.



EXAMPLE 3: Find the height at 0600 using the information from Example 1

DIAGRAM FOR FINDING TIMES OF HEIGHTS OF THE TIDE

Tidal predictions for (Place) Secondary Port

(Date) 15 September

Time	Height
0338	5.8 m
0958	3.7 m
0600	5.2 m

INSTRUCTIONS

1. Plot the times and (using the appropriate scale) heights of high and low water.
2. Join these points to obtain a time-line and height-line.
3. To obtain an intermediate height for a given time, plot the time on the time axis, project up to the time-line, across to the curve, down to the height-line and across to the height axis to read off the result. To find the time for a given height simply use the reverse procedure.

4	To find the time at which a given intermediate height occurs: i) Plot the height on the LW height axis ii) Project it across to the height-line iii) Up to the cosine curve iv) Across to the time-line v) Down to the LW time axis vi) Read time.

2.3.1 FORM FOR CALCULATING INTERMEDIATE TIDAL TIMES AND HEIGHTS

1. Blank forms for calculating the times and heights of HW and LW at both diurnal and semi-diurnal secondary ports are provided on the following pages.

2. Separate copies of these forms may be downloaded from the Fact Sheets section of the AHO website at www.hydro.gov.au.

AHO Fact Sheets: FS Navigation – Tides – Calculating HW and LW at secondary ports FS Navigation – Tides – Diagram for interpolating tide times and heights	http://hydro.gov.au/factsheets/factsheets.htm

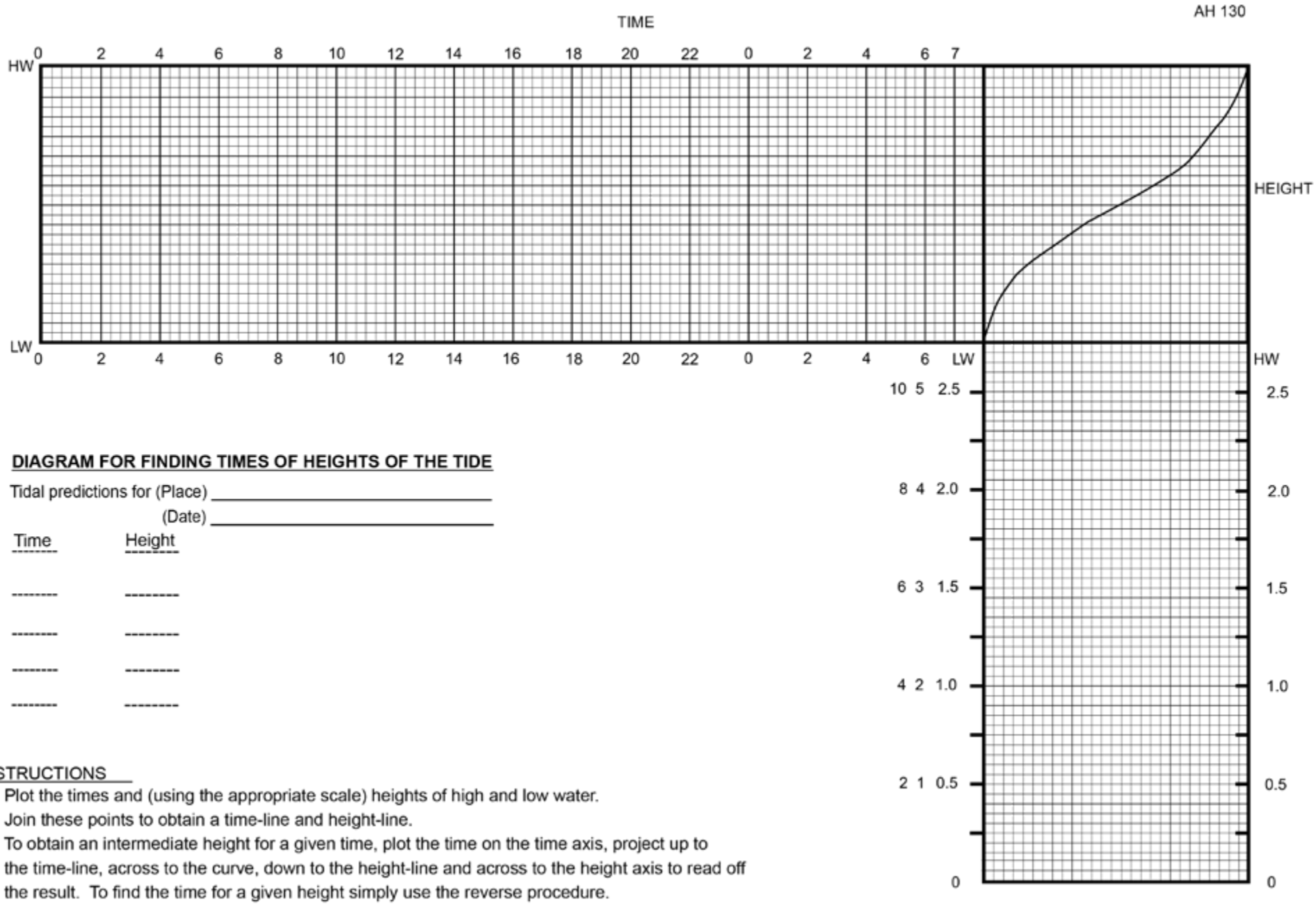


DIAGRAM FOR FINDING TIMES OF HEIGHTS OF THE TIDE

Tidal predictions for (Place) _____

(Date) _____

Time	Height
--------	--------
--------	--------
--------	--------
--------	--------
--------	--------

INSTRUCTIONS

1. Plot the times and (using the appropriate scale) heights of high and low water.
2. Join these points to obtain a time-line and height-line.
3. To obtain an intermediate height for a given time, plot the time on the time axis, project up to the time-line, across to the curve, down to the height-line and across to the height axis to read off the result. To find the time for a given height simply use the reverse procedure.

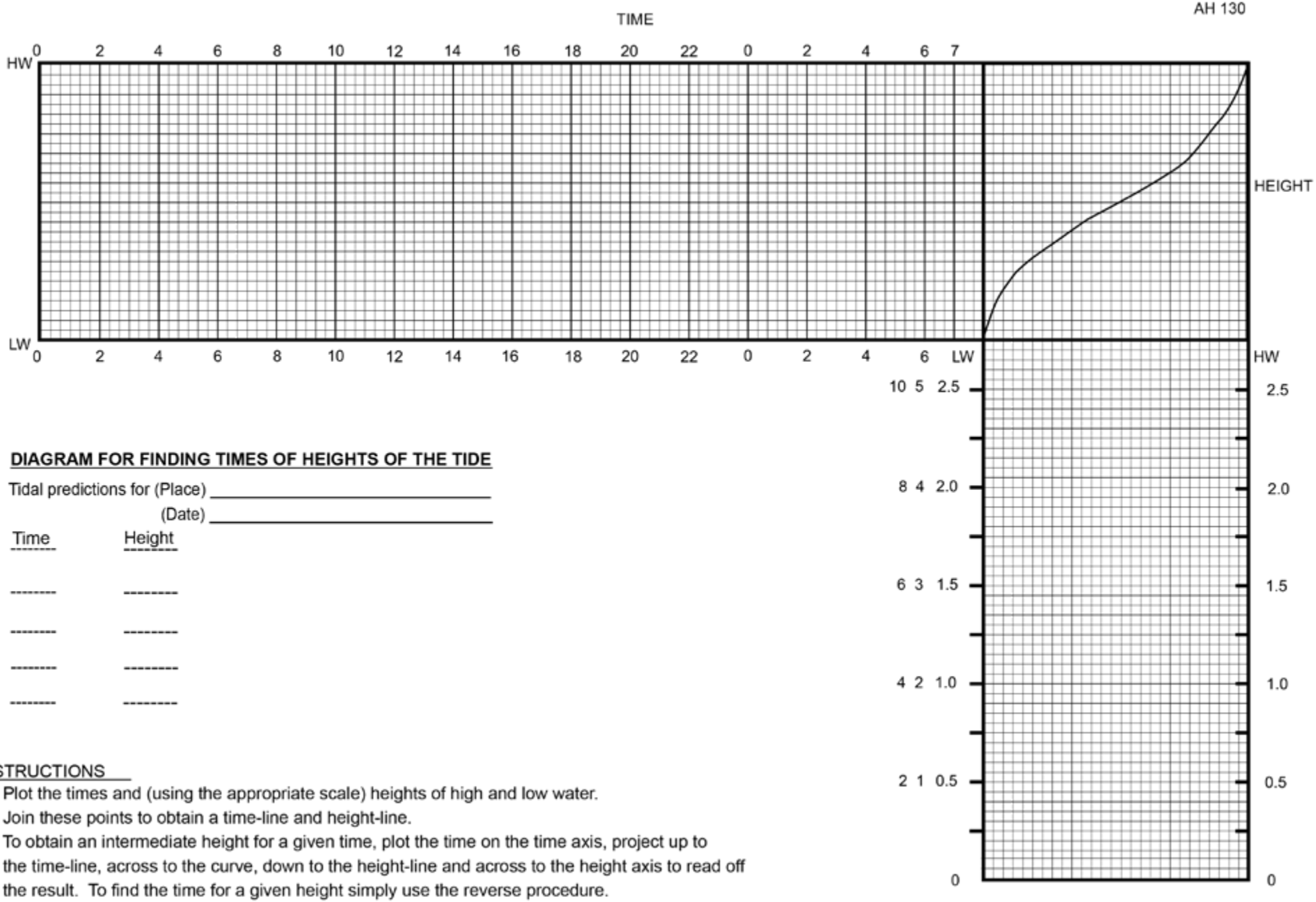


DIAGRAM FOR FINDING TIMES OF HEIGHTS OF THE TIDE

Tidal predictions for (Place) _____

(Date) _____

Time	Height
--------	--------
--------	--------
--------	--------
--------	--------
--------	--------

INSTRUCTIONS

1. Plot the times and (using the appropriate scale) heights of high and low water.
2. Join these points to obtain a time-line and height-line.
3. To obtain an intermediate height for a given time, plot the time on the time axis, project up to the time-line, across to the curve, down to the height-line and across to the height axis to read off the result. To find the time for a given height simply use the reverse procedure.

Notes:

CHAPTER 3 TIDAL PREDICTIONS FOR PAPUA NEW GUINEA PORTS

3.1 PORT INDEX

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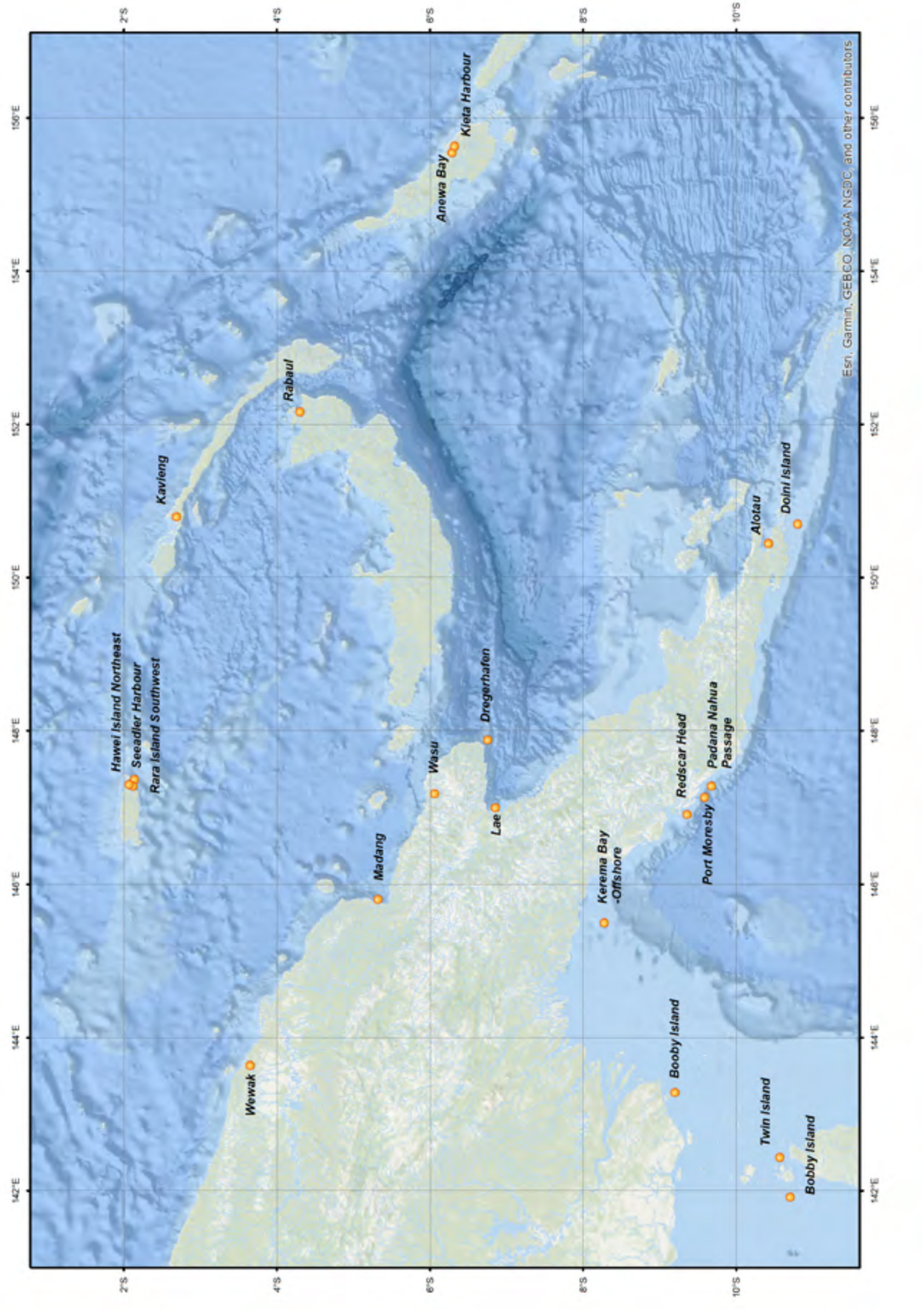
3.2 PAPUA NEW GUINEA TIDAL PORTS MAP



PAPUA NEW GUINEA - PORT MORESBY

LAT 9° 29′ S LONG 147° 08′ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

JANUARY

	Time	m		Time	m
1 MO	0508	1.1	**16** TU	0026	1.7
	1323	2.0		0614	0.9
				1324	2.3
				2029	1.1
2 TU	0530	1.2	**17** WE	0214	1.6
	1426	2.0		0735	1.2
	2317	1.2		1434	2.1
				2147	1.0
3 WE	1529	1.9	**18** TH	0416	1.8
	2322	1.1		0939	1.4
				1554	2.0
				2255	0.9
4 TH	0614	1.6	**19** FR	0546	2.0
	1011	1.5		1140	1.3
	1620	1.9		1708	1.9
	2336	1.0		2347	0.7
5 FR	0632	1.8	**20** SA	0643	2.2
	1136	1.5		1257	1.2
	1700	1.9		1808	1.8
	2353	0.9			
6 SA	0651	1.9	**21** SU	0029	0.6
	1227	1.4		0726	2.4
	1734	1.8		1347	1.1
				1855	1.8
7 SU	0013	0.8	**22** MO	0106	0.5
	0712	2.1		0802	2.5
	1307	1.3		1426	1.1
	1807	1.8		1932	1.8
8 MO	0038	0.6	**23** TU	0139	0.5
	0737	2.3		0834	2.6
	1344	1.2		1458	1.1
	1841	1.9		2004	1.8
9 TU	0106	0.5	**24** WE	0210	0.5
	0807	2.5		0904	2.6
	1421	1.2		1527	1.1
	1918	1.9		2030	1.8
10 WE	0140	0.4	**25** TH	0239	0.5
	0841	2.6		0932	2.6
	1500	1.1		1554	1.1
	1958	1.9		2053	1.8
11 TH	0218	0.3	**26** FR	0306	0.5
	0919	2.7		0959	2.5
	1543	1.1		1620	1.1
	2041	1.9		2114	1.8
12 FR	0300	0.3	**27** SA	0331	0.6
	1001	2.8		1025	2.4
	1629	1.0		1646	1.2
	2127	1.9		2135	1.8
13 SA	0343	0.3	**28** SU	0354	0.7
	1046	2.7		1051	2.3
	1718	1.1		1713	1.3
	2216	1.9		2156	1.7
14 SU	0429	0.4	**29** MO	0415	0.8
	1134	2.7		1117	2.2
	1813	1.1		1745	1.3
	2313	1.8		2217	1.7
15 MO	0518	0.6	**30** TU	0432	1.0
	1225	2.5		1141	2.1
	1916	1.1		1824	1.4
				2242	1.6
			31 WE	0441	1.2
				1205	1.9
				1920	1.4
				2339	1.5

FEBRUARY

	Time	m		Time	m
1 TH	0417	1.4	**16** FR	0411	1.9
	1228	1.8		1039	1.5
	2105	1.3		1537	1.7
				2226	1.0
2 FR	1315	1.7	**17** SA	0551	2.1
	2230	1.2		1238	1.3
				1729	1.6
				2336	0.9
3 SA	0640	1.8	**18** SU	0642	2.4
	1232	1.6		1321	1.1
	1606	1.6		1829	1.7
	2311	1.1			
4 SU	0641	2.0	**19** MO	0024	0.7
	1254	1.4		0719	2.5
	1717	1.6		1351	1.0
	2345	0.9		1909	1.8
5 MO	0658	2.2	**20** TU	0102	0.6
	1316	1.3		0750	2.6
	1803	1.7		1417	1.0
				1938	1.9
6 TU	0019	0.7	**21** WE	0133	0.6
	0723	2.4		0817	2.6
	1342	1.2		1439	1.0
	1843	1.8		2001	1.9
7 WE	0054	0.5	**22** TH	0201	0.5
	0752	2.6		0841	2.6
	1413	1.0		1500	1.0
	1921	1.9		2022	2.0
8 TH	0132	0.4	**23** FR	0225	0.5
	0824	2.8		0903	2.5
	1446	0.9		1519	1.0
	1959	2.1		2040	2.0
9 FR	0210	0.2	**24** SA	0247	0.6
	0900	2.9		0924	2.5
	1521	0.9		1537	1.0
	2039	2.2		2059	2.0
10 SA	0251	0.2	**25** SU	0308	0.6
	0938	2.9		0943	2.4
	1559	0.8		1555	1.1
	2121	2.2		2119	2.0
11 SU	0331	0.2	**26** MO	0329	0.8
	1016	2.9		1002	2.3
	1639	0.8		1615	1.1
	2205	2.2		2141	1.9
12 MO	0414	0.4	**27** TU	0349	0.9
	1055	2.7		1018	2.2
	1723	0.9		1635	1.1
	2256	2.1		2206	1.9
13 TU	0458	0.7	**28** WE	0407	1.1
	1136	2.5		1030	2.1
	1812	1.0		1656	1.1
	2358	1.9		2235	1.8
14 WE	0551	1.0	**29** TH	0421	1.3
	1221	2.2		1033	1.9
	1913	1.0		1717	1.2
				2316	1.7
15 TH	0138	1.8			
	0713	1.4			
	1324	1.9			
	2043	1.1			

MARCH

	Time	m		Time	m
1 FR	0428	1.5	**16** SA	0357	2.1
	1023	1.8		1224	1.3
	1747	1.2		1604	1.4
				2148	1.1
2 SA	0900	1.7	**17** SU	0529	2.2
	1853	1.3		1247	1.1
				1750	1.5
				2317	1.0
3 SU	0607	1.8	**18** MO	0618	2.4
	2210	1.2		1309	1.0
				1833	1.7
4 MO	0612	2.0	**19** TU	0007	0.9
	1309	1.3		0654	2.5
	1722	1.5		1330	0.9
	2317	1.0		1902	1.8
5 TU	0632	2.3	**20** WE	0045	0.8
	1308	1.2		0723	2.5
	1804	1.7		1351	0.9
				1925	1.9
6 WE	0000	0.8	**21** TH	0115	0.7
	0658	2.5		0747	2.5
	1326	1.0		1409	0.9
	1839	1.9		1947	2.0
7 TH	0038	0.6	**22** FR	0140	0.7
	0728	2.7		0808	2.5
	1351	0.9		1426	0.9
	1913	2.1		2006	2.0
8 FR	0116	0.4	**23** SA	0203	0.7
	0759	2.9		0827	2.5
	1420	0.8		1441	0.9
	1950	2.2		2024	2.1
9 SA	0154	0.2	**24** SU	0224	0.7
	0832	3.0		0844	2.4
	1452	0.7		1457	0.9
	2028	2.4		2043	2.1
10 SU	0234	0.2	**25** MO	0245	0.8
	0906	3.0		0900	2.3
	1526	0.6		1512	0.9
	2109	2.4		2106	2.1
11 MO	0314	0.3	**26** TU	0307	0.9
	0940	2.8		0915	2.3
	1602	0.6		1528	0.9
	2153	2.4		2131	2.1
12 TU	0358	0.5	**27** WE	0331	1.1
	1015	2.6		0927	2.1
	1639	0.7		1546	0.9
	2243	2.3		2200	2.1
13 WE	0444	0.9	**28** TH	0356	1.2
	1049	2.3		0936	2.0
	1719	0.8		1604	0.9
	2343	2.2		2233	2.0
14 TH	0543	1.2	**29** FR	0424	1.4
	1122	2.0		0937	1.9
	1805	0.9		1623	1.0
				2319	1.9
15 FR	0119	2.0	**30** SA	0503	1.5
	0743	1.5		0926	1.7
	1151	1.6		1647	1.0
	1925	1.1			
			31 SU	0050	1.8
				1729	1.1

APRIL

	Time	m		Time	m
1 MO	0437	1.9	**16** TU	0537	2.3
	1355	1.3		1239	1.0
	1540	1.3		1812	1.6
	2046	1.2		2332	1.0
2 TU	0522	2.1	**17** WE	0614	2.4
	1238	1.2		1259	0.9
	1713	1.5		1840	1.8
	2239	1.1			
3 WE	0554	2.3	**18** TH	0013	0.9
	1240	1.1		0644	2.4
	1751	1.7		1317	0.9
	2333	0.8		1904	1.9
4 TH	0625	2.5	**19** FR	0045	0.9
	1258	0.9		0708	2.4
	1825	1.9		1334	0.9
				1928	2.0
5 FR	0016	0.6	**20** SA	0113	0.9
	0656	2.7		0729	2.4
	1323	0.8		1350	0.8
	1900	2.1		1949	2.1
6 SA	0056	0.5	**21** SU	0139	0.9
	0728	2.8		0747	2.3
	1351	0.6		1405	0.8
	1937	2.3		2010	2.1
7 SU	0136	0.4	**22** MO	0203	1.0
	0800	2.8		0802	2.3
	1421	0.5		1419	0.8
	2017	2.5		2033	2.2
8 MO	0217	0.5	**23** TU	0228	1.0
	0832	2.8		0817	2.2
	1453	0.4		1434	0.7
	2100	2.6		2058	2.2
9 TU	0302	0.6	**24** WE	0255	1.1
	0906	2.6		0832	2.1
	1527	0.4		1452	0.7
	2145	2.5		2126	2.2
10 WE	0350	0.8	**25** TH	0327	1.2
	0939	2.3		0847	2.0
	1603	0.5		1512	0.7
	2237	2.5		2159	2.2
11 TH	0445	1.1	**26** FR	0404	1.3
	1011	2.0		0901	1.9
	1639	0.7		1536	0.7
	2338	2.3		2239	2.2
12 FR	0601	1.3	**27** SA	0454	1.4
	1038	1.7		0913	1.7
	1720	0.9		1605	0.8
				2334	2.1
13 SA	0108	2.2	**28** SU	0620	1.5
	1821	1.1		0912	1.6
				1642	0.9
14 SU	0314	2.2	**29** MO	0102	2.0
	1206	1.2		1746	1.1
	1604	1.3			
	2047	1.2			
15 MO	0444	2.2	**30** TU	0310	2.1
	1220	1.1		1151	1.3
	1735	1.5		1505	1.3
	2234	1.1		2006	1.1

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55580

PAPUA NEW GUINEA - PORT MORESBY

LAT 9° 29´ S LONG 147° 08´ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

MAY

	Time	m		Time	m
1 WE	0423	2.2	**16** TH	0523	2.2
	1143	1.1		1220	1.0
	1637	1.5		1812	1.7
	2155	1.1		2329	1.2
2 TH	0508	2.4	**17** FR	0556	2.2
	1201	1.0		1239	0.9
	1727	1.7		1843	1.8
	2300	0.9			
3 FR	0546	2.5	**18** SA	0012	1.1
	1225	0.8		0623	2.2
	1808	2.0		1257	0.9
	2351	0.8		1911	1.9
4 SA	0621	2.6	**19** SU	0047	1.1
	1252	0.7		0645	2.2
	1848	2.2		1313	0.8
				1936	2.0
5 SU	0038	0.7	**20** MO	0120	1.2
	0654	2.6		0704	2.1
	1322	0.5		1328	0.8
	1930	2.4		2001	2.1
6 MO	0123	0.7	**21** TU	0151	1.2
	0728	2.6		0723	2.0
	1353	0.4		1344	0.7
	2012	2.5		2025	2.2
7 TU	0210	0.8	**22** WE	0222	1.2
	0803	2.4		0741	2.0
	1426	0.4		1403	0.6
	2057	2.6		2053	2.3
8 WE	0301	0.9	**23** TH	0258	1.2
	0838	2.2		0803	1.9
	1501	0.4		1427	0.6
	2144	2.6		2125	2.3
9 TH	0356	1.0	**24** FR	0338	1.3
	0914	2.0		0828	1.8
	1538	0.5		1455	0.6
	2235	2.5		2202	2.4
10 FR	0500	1.2	**25** SA	0425	1.3
	0951	1.8		0858	1.7
	1616	0.6		1530	0.6
	2334	2.4		2247	2.3
11 SA	0623	1.3	**26** SU	0525	1.4
	1030	1.5		0936	1.6
	1658	0.8		1611	0.7
				2343	2.3
12 SU	0047	2.3	**27** MO	0647	1.4
	0833	1.3		1028	1.5
	1126	1.4		1703	0.8
	1753	1.0			
13 MO	0217	2.2	**28** TU	0054	2.3
	1058	1.2		0831	1.3
	1439	1.3		1205	1.4
	1926	1.1		1811	0.9
14 TU	0340	2.2	**29** WE	0214	2.3
	1134	1.1		0952	1.2
	1637	1.4		1420	1.4
	2119	1.2		1940	1.0
15 WE	0440	2.2	**30** TH	0324	2.3
	1158	1.1		1039	1.1
	1734	1.6		1555	1.6
	2235	1.2		2113	1.1
			31 FR	0419	2.3
				1117	0.9
				1703	1.8
				2230	1.1

JUNE

	Time	m		Time	m
1 SA	0506	2.4	**16** SU	0532	2.0
	1151	0.8		1216	0.9
	1757	2.0		1900	1.9
	2335	1.0			
2 SU	0547	2.3	**17** MO	0033	1.3
	1224	0.6		0600	1.9
	1845	2.2		1235	0.8
				1926	2.0
3 MO	0033	1.0	**18** TU	0114	1.3
	0627	2.3		0626	1.9
	1257	0.5		1254	0.7
	1930	2.4		1951	2.2
4 TU	0128	1.0	**19** WE	0151	1.3
	0706	2.2		0652	1.8
	1332	0.4		1316	0.7
	2015	2.5		2017	2.3
5 WE	0222	1.0	**20** TH	0227	1.2
	0746	2.1		0720	1.8
	1408	0.4		1342	0.6
	2100	2.6		2046	2.4
6 TH	0316	1.1	**21** FR	0304	1.2
	0827	1.9		0753	1.8
	1446	0.4		1414	0.5
	2145	2.6		2121	2.4
7 FR	0411	1.1	**22** SA	0345	1.2
	0908	1.8		0831	1.8
	1525	0.5		1451	0.5
	2232	2.6		2159	2.5
8 SA	0508	1.2	**23** SU	0430	1.2
	0950	1.7		0914	1.7
	1605	0.6		1533	0.5
	2321	2.5		2244	2.5
9 SU	0609	1.2	**24** MO	0521	1.2
	1032	1.5		1002	1.7
	1646	0.7		1618	0.5
				2332	2.5
10 MO	0014	2.3	**25** TU	0619	1.2
	0718	1.3		1058	1.6
	1120	1.4		1708	0.6
	1728	0.9			
11 TU	0114	2.2	**26** WE	0026	2.4
	0841	1.3		0723	1.2
	1240	1.4		1209	1.6
	1817	1.0		1805	0.8
12 WE	0219	2.1	**27** TH	0125	2.4
	1012	1.2		0832	1.1
	1451	1.4		1342	1.6
	1925	1.2		1912	1.0
13 TH	0323	2.1	**28** FR	0229	2.3
	1103	1.2		0938	1.0
	1642	1.5		1523	1.6
	2106	1.3		2041	1.1
14 FR	0416	2.0	**29** SA	0332	2.2
	1134	1.1		1035	0.9
	1748	1.6		1651	1.8
	2237	1.4		2220	1.2
15 SA	0458	2.0	**30** SU	0432	2.1
	1156	1.0		1122	0.8
	1829	1.7		1759	2.0
	2343	1.4		2348	1.2

JULY

	Time	m		Time	m
1 MO	0528	2.0	**16** TU	0048	1.4
	1205	0.6		0524	1.7
	1853	2.2		1159	0.9
				1914	2.0
2 TU	0058	1.2	**17** WE	0125	1.3
	0619	1.9		0603	1.6
	1245	0.5		1226	0.8
	1939	2.4		1937	2.2
3 WE	0155	1.1	**18** TH	0154	1.2
	0706	1.9		0639	1.7
	1323	0.4		1255	0.6
	2021	2.5		2003	2.3
4 TH	0243	1.0	**19** FR	0224	1.2
	0749	1.8		0714	1.7
	1401	0.4		1329	0.5
	2100	2.6		2033	2.5
5 FR	0327	1.0	**20** SA	0255	1.1
	0830	1.8		0751	1.8
	1439	0.4		1405	0.4
	2138	2.6		2106	2.6
6 SA	0408	1.0	**21** SU	0331	1.0
	0907	1.7		0831	1.8
	1516	0.4		1444	0.3
	2216	2.6		2143	2.7
7 SU	0447	1.1	**22** MO	0409	1.0
	0941	1.7		0913	1.9
	1551	0.5		1526	0.3
	2254	2.5		2222	2.7
8 MO	0527	1.1	**23** TU	0451	1.0
	1012	1.6		0959	1.9
	1623	0.6		1609	0.4
	2330	2.3		2303	2.6
9 TU	0610	1.2	**24** WE	0537	1.0
	1042	1.6		1049	1.8
	1654	0.8		1654	0.5
				2348	2.5
10 WE	0007	2.2	**25** TH	0628	1.0
	0658	1.3		1151	1.8
	1116	1.5		1745	0.8
	1722	1.0			
11 TH	0047	2.1	**26** FR	0036	2.3
	0800	1.3		0728	1.0
	1214	1.4		1314	1.7
	1751	1.2		1848	1.1
12 FR	0132	1.9	**27** SA	0133	2.1
	0920	1.3		0841	1.0
	1514	1.4		1508	1.7
	1830	1.4		2034	1.3
13 SA	0230	1.8	**28** SU	0251	1.9
	1028	1.2		0957	0.9
	1756	1.6		1658	1.9
	2137	1.5		2301	1.3
14 SU	0338	1.7	**29** MO	0422	1.8
	1106	1.1		1104	0.8
	1831	1.7		1811	2.2
	2348	1.5			
15 MO	0438	1.7	**30** TU	0037	1.2
	1134	1.0		0539	1.7
	1853	1.9		1158	0.7
				1901	2.4
			31 WE	0132	1.1
				0637	1.7
				1243	0.5
				1942	2.5

AUGUST

	Time	m		Time	m
1 TH	0211	1.0	**16** FR	0142	1.1
	0721	1.7		0634	1.6
	1322	0.5		1238	0.6
	2017	2.6		1939	2.4
2 FR	0244	0.9	**17** SA	0203	1.0
	0756	1.8		0707	1.8
	1357	0.4		1313	0.4
	2049	2.6		2008	2.6
3 SA	0314	0.9	**18** SU	0231	0.9
	0827	1.8		0742	1.9
	1429	0.4		1350	0.3
	2119	2.6		2040	2.7
4 SU	0342	0.9	**19** MO	0301	0.8
	0853	1.8		0820	2.0
	1500	0.4		1428	0.2
	2147	2.5		2114	2.8
5 MO	0409	1.0	**20** TU	0336	0.8
	0917	1.8		0900	2.1
	1526	0.5		1508	0.2
	2213	2.4		2149	2.8
6 TU	0435	1.0	**21** WE	0412	0.7
	0941	1.8		0943	2.1
	1552	0.6		1550	0.3
	2238	2.3		2225	2.6
7 WE	0501	1.1	**22** TH	0452	0.7
	1004	1.7		1033	2.1
	1614	0.8		1635	0.6
	2301	2.2		2303	2.4
8 TH	0529	1.2	**23** FR	0536	0.8
	1031	1.6		1132	2.0
	1634	1.0		1727	0.9
	2321	2.0		2345	2.1
9 FR	0600	1.2	**24** SA	0629	0.9
	1106	1.5		1257	1.9
	1648	1.2		1842	1.2
	2336	1.9			
10 SA	0639	1.2	**25** SU	0036	1.8
	1216	1.5		0744	0.9
	1635	1.4		1509	1.9
	2336	1.7		2137	1.4
11 SU	0744	1.2	**26** MO	0232	1.6
	2053	1.6		0928	0.9
				1706	2.1
12 MO	0942	1.2	**27** TU	0012	1.2
	1834	1.8		0452	1.5
				1056	0.8
				1808	2.3
13 TU	0147	1.4	**28** WE	0059	1.0
	0350	1.4		0604	1.6
	1049	1.1		1154	0.7
	1838	1.9		1852	2.4
14 WE	0123	1.3	**29** TH	0130	0.9
	0517	1.5		0648	1.7
	1129	0.9		1238	0.6
	1853	2.1		1927	2.5
15 TH	0127	1.2	**30** FR	0158	0.8
	0600	1.5		0721	1.8
	1204	0.8		1313	0.5
	1914	2.2		1956	2.5
			31 SA	0222	0.8
				0747	1.8
				1344	0.5
				2023	2.5

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55580

PAPUA NEW GUINEA - PORT MORESBY

LAT 9° 29´ S LONG 147° 08´ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

SEPTEMBER

	Time	m		Time	m
1 SU	0244	0.8	**16** MO	0158	0.7
	0810	1.9		0727	2.1
	1410	0.5		1328	0.3
	2047	2.5		2006	2.8
2 MO	0305	0.9	**17** TU	0227	0.6
	0831	1.9		0803	2.2
	1434	0.5		1407	0.2
	2107	2.4		2038	2.8
3 TU	0323	0.9	**18** WE	0259	0.5
	0851	1.9		0844	2.3
	1457	0.6		1448	0.3
	2126	2.3		2111	2.7
4 WE	0341	0.9	**19** TH	0333	0.5
	0912	1.9		0929	2.3
	1518	0.7		1532	0.5
	2144	2.2		2145	2.5
5 TH	0359	1.0	**20** FR	0409	0.5
	0936	1.9		1019	2.3
	1538	0.9		1621	0.8
	2158	2.1		2220	2.2
6 FR	0417	1.0	**21** SA	0449	0.6
	1003	1.8		1121	2.1
	1557	1.1		1724	1.1
	2206	1.9		2255	1.9
7 SA	0435	1.0	**22** SU	0536	0.8
	1034	1.7		1250	2.0
	1610	1.3		1917	1.4
	2159	1.8		2336	1.5
8 SU	0452	1.1	**23** MO	0650	0.9
	1122	1.6		1509	2.0
	1605	1.5		2338	1.2
	2130	1.7			
9 MO	0512	1.1	**24** TU	0312	1.3
	1913	1.7		0901	1.0
				1649	2.2
10 TU	0554	1.2	**25** WE	0015	1.0
	1756	1.8		0515	1.4
				1039	0.9
				1746	2.4
11 WE	0228	1.3	**26** TH	0043	0.9
	0432	1.3		0605	1.6
	0952	1.1		1138	0.8
	1803	2.0		1826	2.4
12 TH	0114	1.2	**27** FR	0106	0.8
	0527	1.4		0638	1.7
	1100	1.0		1219	0.7
	1820	2.1		1858	2.5
13 FR	0104	1.1	**28** SA	0129	0.8
	0555	1.5		0706	1.8
	1141	0.8		1253	0.6
	1843	2.3		1925	2.5
14 SA	0114	1.0	**29** SU	0149	0.8
	0623	1.7		0729	1.9
	1217	0.6		1321	0.6
	1908	2.5		1948	2.4
15 SU	0133	0.8	**30** MO	0208	0.8
	0653	1.9		0751	2.0
	1252	0.4		1346	0.6
	1936	2.7		2008	2.4

OCTOBER

	Time	m		Time	m
1 TU	0224	0.8	**16** WE	0154	0.4
	0811	2.0		0751	2.4
	1408	0.7		1349	0.5
	2024	2.3		2001	2.6
2 WE	0239	0.8	**17** TH	0224	0.3
	0832	2.0		0834	2.5
	1430	0.8		1434	0.6
	2039	2.2		2034	2.5
3 TH	0253	0.8	**18** FR	0258	0.3
	0855	2.0		0921	2.5
	1452	0.9		1524	0.8
	2051	2.1		2108	2.2
4 FR	0307	0.8	**19** SA	0334	0.4
	0920	2.0		1013	2.4
	1516	1.1		1622	1.0
	2100	2.0		2143	1.9
5 SA	0323	0.8	**20** SU	0413	0.5
	0949	2.0		1116	2.3
	1540	1.2		1742	1.2
	2101	1.8		2217	1.6
6 SU	0337	0.8	**21** MO	0458	0.7
	1023	1.9		1244	2.2
	1609	1.4		2016	1.3
	2053	1.7		2254	1.3
7 MO	0351	0.9	**22** TU	0607	0.9
	1111	1.8		1441	2.2
	1652	1.5		2318	1.1
	2021	1.6			
8 TU	0406	1.0	**23** WE	0317	1.3
	1315	1.7		0817	1.0
				1611	2.3
				2346	1.0
9 WE	0418	1.1	**24** TH	0459	1.4
	1644	1.9		1002	1.0
				1708	2.3
10 TH	0134	1.2	**25** FR	0012	0.9
	0502	1.2		0545	1.6
	0823	1.2		1105	0.9
	1713	2.0		1748	2.4
11 FR	0035	1.1	**26** SA	0035	0.8
	0513	1.4		0618	1.7
	1019	1.0		1150	0.9
	1737	2.2		1821	2.4
12 SA	0028	1.0	**27** SU	0056	0.8
	0537	1.6		0647	1.8
	1109	0.8		1226	0.8
	1803	2.4		1847	2.3
13 SU	0040	0.9	**28** MO	0115	0.7
	0605	1.8		0712	1.9
	1149	0.7		1256	0.9
	1831	2.5		1908	2.3
14 MO	0100	0.7	**29** TU	0132	0.7
	0637	2.0		0737	2.0
	1228	0.5		1323	0.9
	1859	2.7		1926	2.2
15 TU	0125	0.6	**30** WE	0147	0.7
	0713	2.2		0759	2.1
	1307	0.5		1349	1.0
	1930	2.7		1941	2.1
			31 TH	0201	0.7
				0822	2.1
				1415	1.1
				1955	2.0

NOVEMBER

	Time	m		Time	m
1 FR	0215	0.7	**16** SA	0232	0.2
	0847	2.1		0919	2.6
	1443	1.1		1531	1.0
	2007	1.9		2045	2.0
2 SA	0230	0.6	**17** SU	0311	0.3
	0914	2.1		1011	2.6
	1514	1.2		1636	1.1
	2017	1.8		2125	1.7
3 SU	0248	0.7	**18** MO	0352	0.4
	0946	2.1		1111	2.5
	1552	1.3		1757	1.2
	2024	1.7		2209	1.5
4 MO	0308	0.7	**19** TU	0439	0.6
	1025	2.1		1224	2.4
	1643	1.4		1946	1.3
	2026	1.6		2317	1.3
5 TU	0331	0.8	**20** WE	0538	0.8
	1118	2.0		1349	2.3
				2212	1.2
6 WE	0401	0.9	**21** TH	0203	1.3
	1250	1.9		0708	1.0
				1512	2.2
				2305	1.0
7 TH	0451	1.0	**22** FR	0407	1.4
	1503	2.0		0853	1.1
				1616	2.2
				2336	1.0
8 FR	0720	1.1	**23** SA	0515	1.5
	1606	2.1		1013	1.1
	2341	1.1		1702	2.2
9 SA	0430	1.4	**24** SU	0002	0.9
	0925	1.1		0559	1.7
	1646	2.3		1113	1.1
	2346	0.9		1737	2.2
10 SU	0510	1.6	**25** MO	0024	0.8
	1030	1.0		0633	1.8
	1720	2.4		1158	1.1
				1805	2.2
11 MO	0005	0.8	**26** TU	0042	0.8
	0548	1.8		0703	1.9
	1122	0.8		1238	1.1
	1751	2.5		1828	2.1
12 TU	0028	0.6	**27** WE	0059	0.7
	0625	2.1		0730	2.0
	1208	0.8		1312	1.2
	1824	2.5		1848	2.0
13 WE	0055	0.5	**28** TH	0116	0.7
	0705	2.3		0755	2.1
	1254	0.8		1345	1.2
	1857	2.5		1906	2.0
14 TH	0125	0.3	**29** FR	0131	0.6
	0747	2.5		0819	2.2
	1343	0.8		1417	1.2
	1931	2.4		1923	1.9
15 FR	0157	0.2	**30** SA	0149	0.6
	0832	2.6		0844	2.3
	1434	0.9		1450	1.3
	2007	2.2		1942	1.8

DECEMBER

	Time	m		Time	m
1 SU	0210	0.6	**16** MO	0302	0.3
	0914	2.3		1007	2.7
	1527	1.3		1638	1.1
	2003	1.7		2125	1.7
2 MO	0234	0.6	**17** TU	0343	0.4
	0947	2.3		1056	2.6
	1611	1.3		1736	1.2
	2027	1.7		2207	1.6
3 TU	0305	0.6	**18** WE	0425	0.6
	1028	2.3		1148	2.5
	1706	1.4		1840	1.2
	2053	1.6		2251	1.5
4 WE	0340	0.7	**19** TH	0508	0.8
	1119	2.2		1245	2.3
	1821	1.4		1956	1.3
	2124	1.5		2353	1.4
5 TH	0424	0.8	**20** FR	0553	1.0
	1222	2.2		1349	2.2
	2015	1.4		2138	1.2
	2214	1.4			
6 FR	0522	0.9	**21** SA	0213	1.3
	1339	2.2		0654	1.2
	2150	1.3		1456	2.1
				2252	1.1
7 SA	0118	1.3	**22** SU	0439	1.4
	0644	1.0		0843	1.3
	1451	2.2		1557	2.0
	2228	1.1		2328	1.0
8 SU	0329	1.4	**23** MO	0555	1.6
	0825	1.1		1030	1.4
	1547	2.3		1646	2.0
	2258	0.9		2352	1.0
9 MO	0443	1.6	**24** TU	0635	1.8
	0953	1.1		1145	1.4
	1634	2.3		1724	1.9
	2329	0.8			
10 TU	0536	1.9	**25** WE	0012	0.9
	1104	1.1		0704	1.9
	1716	2.3		1238	1.4
				1755	1.9
11 WE	0000	0.6	**26** TH	0031	0.8
	0624	2.1		0728	2.1
	1205	1.1		1320	1.3
	1757	2.2		1823	1.8
12 TH	0033	0.5	**27** FR	0051	0.7
	0707	2.4		0751	2.2
	1302	1.0		1354	1.3
	1837	2.2		1848	1.8
13 FR	0106	0.3	**28** SA	0111	0.6
	0751	2.5		0815	2.3
	1356	1.0		1425	1.3
	1918	2.1		1913	1.8
14 SA	0143	0.3	**29** SU	0135	0.6
	0835	2.7		0840	2.4
	1450	1.0		1456	1.2
	1959	2.0		1940	1.8
15 SU	0221	0.2	**30** MO	0202	0.5
	0921	2.7		0909	2.4
	1543	1.0		1529	1.2
	2042	1.8		2011	1.8
			31 TU	0233	0.5
				0942	2.5
				1607	1.2
				2046	1.8

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55580

PAPUA NEW GUINEA - ALOTAU (MILNE BAY)

LAT 10° 19´ S LONG 150° 27´ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

JANUARY

	Time	m		Time	m
1 MO	0031	0.4	16 TU	0045	0.5
	1602	1.2		1502	1.2
2 TU	0034	0.5	17 WE	0009	0.5
	1619	1.2		1524	1.1
				2340	0.5
3 WE	0034	0.5	18 TH	0742	1.0
	1627	1.1		1056	0.9
				1532	1.0
				2331	0.5
4 TH	0027	0.5	19 FR	0721	1.1
	1617	1.0		1258	0.9
				1524	1.0
				2321	0.4
5 FR	0012	0.5	20 SA	0744	1.2
	1135	1.0		2318	0.3
	2351	0.5			
6 SA	1113	1.0	21 SU	0816	1.2
	2326	0.4		2327	0.3
7 SU	1120	1.1	22 MO	0854	1.3
	2313	0.4		2344	0.3
8 MO	1124	1.1	23 TU	0943	1.3
	2322	0.3			
9 TU	1004	1.2	24 WE	0005	0.3
	2347	0.2		1048	1.2
10 WE	1042	1.2	25 TH	0026	0.3
				1208	1.2
11 TH	0021	0.2	26 FR	0038	0.3
	1130	1.3		1324	1.2
12 FR	0059	0.2	27 SA	0035	0.4
	1221	1.3		1432	1.2
13 SA	0138	0.2	28 SU	0021	0.4
	1310	1.3		1518	1.2
14 SU	0213	0.3	29 MO	0005	0.5
	1354	1.3		1547	1.2
15 MO	0204	0.4	30 TU	0001	0.5
	1432	1.3		1606	1.1
			31 WE	0000	0.5
				1619	1.1
				2352	0.5

FEBRUARY

	Time	m		Time	m
1 TH	0744	1.0	16 FR	0605	1.2
	1221	0.9		1249	0.8
	1624	1.0		1519	0.8
	2334	0.5		2234	0.4
2 FR	0741	1.0	17 SA	0624	1.2
	1331	0.9		1352	0.8
	1615	0.9		1520	0.8
	2318	0.5		2236	0.4
3 SA	0731	1.1	18 SU	0649	1.3
	2301	0.5		2244	0.3
4 SU	0727	1.1	19 MO	0718	1.3
	2247	0.4		2301	0.3
5 MO	0736	1.2	20 TU	0750	1.2
	2247	0.3		2320	0.3
6 TU	0754	1.2	21 WE	0830	1.2
	2305	0.3		2341	0.3
7 WE	0818	1.2	22 TH	0928	1.1
	2334	0.2		2355	0.4
8 TH	0852	1.2	23 FR	1133	1.1
				2358	0.4
9 FR	0008	0.2	24 SA	1504	1.1
	0940	1.2		2349	0.5
10 SA	0044	0.2	25 SU	1538	1.1
	1048	1.2		2330	0.5
	1417	1.2			
	1533	1.2			
11 SU	0118	0.3	26 MO	0713	0.9
	1156	1.2		0959	0.9
				1606	1.1
				2318	0.6
12 MO	0139	0.4	27 TU	0638	0.9
	1256	1.1		1047	0.8
				1630	1.0
				2315	0.6
13 TU	0014	0.6	28 WE	0620	1.0
	1347	1.1		1129	0.8
	2328	0.6		1644	0.9
				2308	0.6
14 WE	0720	0.9	29 TH	0617	1.0
	0921	0.9		1208	0.7
	1430	1.0		1650	0.9
	2239	0.6		2246	0.6
15 TH	0615	1.0			
	1142	0.9			
	1502	0.9			
	2232	0.5			

MARCH

	Time	m		Time	m
1 FR	0614	1.1	16 SA	0506	1.3
	1249	0.7		1311	0.6
	1647	0.8		1524	0.6
	2225	0.6		2124	0.4
2 SA	0608	1.1	17 SU	0531	1.3
	1337	0.7		1341	0.6
	1632	0.7		1542	0.7
	2211	0.5		2139	0.4
3 SU	0607	1.2	18 MO	0558	1.3
	2202	0.5		1419	0.7
				1548	0.7
				2159	0.4
4 MO	0614	1.2	19 TU	0624	1.3
	2201	0.4		2221	0.4
5 TU	0626	1.2	20 WE	0650	1.2
	2212	0.3		2242	0.4
6 WE	0643	1.2	21 TH	0713	1.1
	2236	0.3		2258	0.5
7 TH	0702	1.2	22 FR	0728	1.0
	2307	0.3		2304	0.5
8 FR	0724	1.2	23 SA	0725	1.0
	2341	0.3		2258	0.6
9 SA	0748	1.2	24 SU	0646	0.9
	1309	1.0		1028	0.9
	1522	1.0		1534	0.9
				2238	0.6
10 SU	0014	0.4	25 MO	0532	0.9
	0813	1.1		1023	0.8
	1334	1.0		1610	0.9
	1606	1.0		2222	0.6
11 MO	0042	0.5	26 TU	0510	1.0
	0833	1.0		1049	0.7
	2344	0.6		1643	0.9
				2218	0.7
12 TU	0836	1.0	27 WE	0504	1.0
	1454	0.8		1119	0.7
	1714	0.9		1714	0.8
	2238	0.7		2208	0.7
13 WE	0546	1.0	28 TH	0506	1.1
	2100	0.7		1148	0.6
				1741	0.8
				2123	0.7
14 TH	0508	1.1	29 FR	0505	1.1
	2100	0.6		1217	0.5
15 FR	0448	1.2	30 SA	0458	1.2
	2111	0.5		1250	0.5
			31 SU	0458	1.2
				1329	0.5
				1710	0.6
				2039	0.5

APRIL

	Time	m		Time	m
1 MO	0505	1.2	16 TU	0513	1.3
	1439	0.6		1344	0.6
	1610	0.6		1613	0.6
	2046	0.5		2058	0.5
2 TU	0518	1.3	17 WE	0538	1.2
	2102	0.4		1406	0.6
				1625	0.7
				2125	0.5
3 WE	0535	1.3	18 TH	0557	1.1
	2126	0.4		1435	0.7
				1636	0.7
				2145	0.5
4 TH	0551	1.2	19 FR	0608	1.1
	2157	0.4		2154	0.6
5 FR	0607	1.2	20 SA	0605	1.0
	2230	0.4		2148	0.7
6 SA	0624	1.2	21 SU	0505	1.0
	1232	0.8		1244	0.7
	1504	0.9		1658	0.8
	2303	0.5		2119	0.7
7 SU	0640	1.1	22 MO	0406	1.0
	1243	0.8		1223	0.7
	1657	0.9		1800	0.8
	2333	0.6		2102	0.7
8 MO	0648	1.0	23 TU	0350	1.0
	1308	0.7		1155	0.6
	1844	0.9			
	2247	0.8			
9 TU	0555	1.0	24 WE	0352	1.1
	1341	0.6		1153	0.5
	2054	0.8			
	2116	0.8			
10 WE	0430	1.0	25 TH	0357	1.1
	1417	0.5		1156	0.5
11 TH	0356	1.1	26 FR	0357	1.1
	1456	0.5		1208	0.4
12 FR	0319	1.2	27 SA	0350	1.2
	1542	0.5		1229	0.4
13 SA	0345	1.3	28 SU	0349	1.2
	1707	0.5		1258	0.4
14 SU	0416	1.3	29 MO	0359	1.3
	1313	0.5		1340	0.4
	1534	0.5			
	1928	0.5			
15 MO	0446	1.3	30 TU	0416	1.3
	1325	0.5		1453	0.5
	1559	0.6		1600	0.5
	2022	0.5		1829	0.5

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55830

PAPUA NEW GUINEA - ALOTAU (MILNE BAY)

LAT 10° 19´ S LONG 150° 27´ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

MAY

	Time	m		Time	m
1 WE	0435	1.3	16 TH	0501	1.2
	1947	0.4		1333	0.6
				1728	0.6
				2001	0.6
2 TH	0452	1.2	17 FR	0513	1.1
	2031	0.5		1340	0.6
3 FR	0503	1.2	18 SA	0509	1.0
	2109	0.5		1332	0.6
4 SA	0512	1.2	19 SU	0402	1.0
	1231	0.7		1239	0.6
	1641	0.7			
	2144	0.6			
5 SU	0520	1.1	20 MO	0240	1.0
	1211	0.6		1221	0.5
	1805	0.8			
	2214	0.7			
6 MO	0515	1.0	21 TU	0229	1.0
	1222	0.5		1205	0.5
7 TU	0351	1.0	22 WE	0234	1.1
	1247	0.4		1202	0.4
8 WE	0312	1.1	23 TH	0241	1.1
	1318	0.4		1216	0.3
9 TH	0113	1.2	24 FR	0239	1.2
	1351	0.3		1237	0.3
10 FR	0140	1.3	25 SA	0229	1.2
	1425	0.3		1302	0.3
11 SA	0220	1.3	26 SU	0232	1.2
	1458	0.3		1329	0.3
12 SU	0300	1.3	27 MO	0248	1.2
	1526	0.4		1357	0.3
13 MO	0337	1.3	28 TU	0312	1.3
	1328	0.4		1422	0.4
14 TU	0411	1.3	29 WE	0337	1.3
	1321	0.5		1446	0.4
	1628	0.5			
	1824	0.5			
15 WE	0439	1.2	30 TH	0358	1.2
	1325	0.5		1452	0.5
	1656	0.6			
	1928	0.5			
			31 FR	0410	1.2
				1356	0.6
				1759	0.6
				1823	0.6

JUNE

	Time	m		Time	m
1 SA	0413	1.1	16 SU	0334	0.9
	1306	0.6		1233	0.5
2 SU	0413	1.1	17 MO	0100	1.0
	1202	0.5		1205	0.5
3 MO	0357	1.0	18 TU	0050	1.0
	1151	0.4		1147	0.4
4 TU	0201	1.0	19 WE	0050	1.1
	1205	0.3		1139	0.3
	2244	1.1			
5 WE	1229	0.3	20 TH	0047	1.1
	2322	1.2		1151	0.3
6 TH	1300	0.2	21 FR	0045	1.1
				1215	0.2
7 FR	0007	1.2	22 SA	0044	1.2
	1332	0.2		1248	0.2
8 SA	0056	1.3	23 SU	0059	1.2
	1404	0.2		1325	0.2
9 SU	0144	1.3	24 MO	0127	1.2
	1428	0.3		1403	0.2
10 MO	0231	1.3	25 TU	0159	1.2
	1358	0.3		1434	0.3
11 TU	0312	1.2	26 WE	0231	1.2
	1318	0.4		1415	0.4
12 WE	0347	1.2	27 TH	0259	1.2
	1303	0.4		1335	0.5
13 TH	0414	1.1	28 FR	0319	1.1
	1259	0.5		1258	0.5
14 FR	0431	1.1	29 SA	0326	1.1
	1257	0.5		1219	0.5
15 SA	0435	1.0	30 SU	0321	1.0
	1252	0.5		1151	0.5
				2013	0.9
				2334	0.9

JULY

	Time	m		Time	m
1 MO	0259	0.9	16 TU	1120	0.4
	1128	0.4		2033	1.0
	2027	1.1			
2 TU	1130	0.3	17 WE	1108	0.3
	2100	1.1		2051	1.1
3 WE	1148	0.2	18 TH	1113	0.3
	2142	1.2		2122	1.1
4 TH	1214	0.2	19 FR	1134	0.2
	2232	1.2		2204	1.1
5 FR	1245	0.2	20 SA	1206	0.2
	2329	1.2		2255	1.2
6 SA	1315	0.2	21 SU	1242	0.2
				2346	1.2
7 SU	0031	1.2	22 MO	1318	0.2
	1339	0.2			
8 MO	0128	1.2	23 TU	0031	1.2
	1344	0.3		1351	0.3
9 TU	0219	1.2	24 WE	0111	1.2
	1304	0.4		1403	0.4
10 WE	0301	1.2	25 TH	0147	1.1
	1234	0.4		1247	0.5
11 TH	0334	1.1	26 FR	0217	1.1
	1224	0.4		1204	0.5
12 FR	0358	1.1	27 SA	0239	1.0
	1218	0.5		1116	0.5
				1911	0.9
				2258	0.9
13 SA	0411	1.0	28 SU	0246	0.9
	1208	0.5		1101	0.4
	2102	0.9		1847	1.0
14 SU	0039	0.9	29 MO	1051	0.4
	0407	0.9		1905	1.1
	1155	0.5			
	2052	1.0			
15 MO	1139	0.4	30 TU	1051	0.3
	2041	1.0		1932	1.2
			31 WE	1106	0.2
				2006	1.2

AUGUST

	Time	m		Time	m
1 TH	1129	0.2	16 FR	1044	0.2
	2046	1.2		1944	1.1
2 FR	1155	0.2	17 SA	1110	0.2
	2139	1.2		2007	1.1
3 SA	1222	0.2	18 SU	1143	0.2
	2257	1.1		2034	1.1
4 SU	1245	0.3	19 MO	1218	0.2
				2105	1.1
5 MO	0023	1.1	20 TU	0156	1.0
	1252	0.3		0318	1.1
				1251	0.3
				2145	1.1
6 TU	0130	1.1	21 WE	0240	1.0
	1228	0.4		0354	1.0
				1314	0.4
				2352	1.0
7 WE	0225	1.1	22 TH	1205	0.5
	1153	0.4			
8 TH	0307	1.0	23 FR	0043	0.9
	1141	0.5		1110	0.6
	1934	0.8		1844	0.9
	2217	0.8		2137	0.8
9 FR	0336	1.0	24 SA	0126	0.9
	1135	0.5		0954	0.6
	1904	0.9		1748	1.0
	2331	0.8		2358	0.8
10 SA	0356	0.9	25 SU	0201	0.8
	1122	0.5		0947	0.5
	1857	0.9		1730	1.1
11 SU	0028	0.8	26 MO	0949	0.4
	0407	0.8		1748	1.2
	1106	0.5			
	1852	1.0			
12 MO	0135	0.7	27 TU	0957	0.3
	0404	0.8		1813	1.3
	1053	0.5			
	1848	1.1			
13 TU	1039	0.4	28 WE	1013	0.3
	1854	1.1		1840	1.3
14 WE	1029	0.4	29 TH	1035	0.3
	1906	1.1		1910	1.2
15 TH	1028	0.3	30 FR	1101	0.3
	1923	1.1		1942	1.2
31 SA	1124	0.3			
	2022	1.1			

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55830

PAPUA NEW GUINEA - ALOTAU (MILNE BAY)

LAT 10° 19´ S LONG 150° 27´ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

SEPTEMBER

	Time	m		Time	m
1 SU	1144	0.3	16 MO	1109	0.3
	2140	1.0		1911	1.1
2 MO	1151	0.4	17 TU	1141	0.4
				1932	1.1
3 TU	0026	1.0	18 WE	0106	0.9
	1134	0.5		0349	0.9
	2024	0.9		1209	0.5
	2114	0.9		1949	1.0
4 WE	0315	1.0	19 TH	0146	0.8
	1101	0.5		0435	0.9
	1821	0.9		1119	0.6
	2202	0.8		1921	0.9
5 TH	0345	0.9	20 FR	0234	0.7
	1047	0.5		0517	0.8
	1752	0.9		1010	0.7
	2242	0.7		1719	1.0
6 FR	0411	0.9	21 SA	0721	0.7
	1042	0.6		1639	1.1
	1742	1.0			
	2320	0.7			
7 SA	0429	0.8	22 SU	0729	0.6
	1030	0.6		1611	1.2
	1741	1.0			
	2356	0.6			
8 SU	0436	0.8	23 MO	0757	0.5
	1005	0.6		1631	1.3
	1739	1.1			
9 MO	0033	0.6	24 TU	0828	0.4
	0435	0.7		1659	1.3
	0951	0.5			
	1736	1.1			
10 TU	0118	0.6	25 WE	0858	0.4
	0424	0.6		1727	1.3
	0938	0.5			
	1741	1.1			
11 WE	0249	0.6	26 TH	0144	0.6
	0350	0.6		0309	0.6
	0934	0.4		0927	0.3
	1750	1.2		1754	1.3
12 TH	0935	0.4	27 FR	0954	0.3
	1802	1.2		1819	1.2
13 FR	0945	0.3	28 SA	1019	0.4
	1818	1.2		1839	1.1
14 SA	1007	0.3	29 SU	1037	0.4
	1834	1.2		1850	1.0
15 SU	1037	0.3	30 MO	1043	0.5
	1852	1.2		1848	1.0

OCTOBER

	Time	m		Time	m
1 TU	1027	0.6	16 WE	0011	0.7
	1741	0.9		0450	0.8
	2318	0.8		1053	0.6
				1803	1.0
2 WE	0318	0.8	17 TH	0036	0.6
	0952	0.6		0653	0.8
	1647	0.9		0956	0.8
	2222	0.7		1704	1.0
3 TH	0355	0.8	18 FR	0111	0.5
	0941	0.7		1606	1.0
	1631	1.0			
	2237	0.6			
4 FR	0431	0.8	19 SA	0152	0.5
	0934	0.7		1527	1.1
	1632	1.0			
	2301	0.6			
5 SA	0504	0.7	20 SU	0237	0.4
	0902	0.7		1443	1.3
	1635	1.1			
	2327	0.5			
6 SU	0534	0.7	21 MO	0332	0.4
	0822	0.7		1513	1.3
	1635	1.1			
	2353	0.5			
7 MO	0557	0.6	22 TU	0449	0.4
	0744	0.6		1547	1.4
	1633	1.2			
8 TU	0023	0.5	23 WE	0638	0.4
	1638	1.2		1620	1.4
9 WE	0058	0.5	24 TH	0052	0.5
	0530	0.5		0321	0.5
	0804	0.5		0746	0.4
	1647	1.2		1650	1.3
10 TH	0151	0.5	25 FR	0106	0.6
	0412	0.5		0348	0.6
	0815	0.5		0829	0.4
	1700	1.2		1715	1.2
11 FR	0829	0.4	26 SA	0124	0.6
	1715	1.2		0412	0.6
				0900	0.5
				1734	1.2
12 SA	0853	0.4	27 SU	0146	0.7
	1728	1.2		0439	0.7
				0920	0.6
				1742	1.1
13 SU	0922	0.4	28 MO	0201	0.7
	1739	1.2		0510	0.7
				0926	0.6
				1735	1.0
14 MO	0954	0.4	29 TU	0035	0.7
	1751	1.2		0548	0.7
				0858	0.7
				1621	1.0
15 TU	1025	0.5	30 WE	0021	0.7
	1802	1.1		1523	1.0
				2355	0.6
			31 TH	1517	1.1
				2322	0.5

NOVEMBER

	Time	m		Time	m
1 FR	1521	1.1	16 SA	0047	0.3
	2313	0.5		1240	1.2
2 SA	1528	1.2	17 SU	0124	0.3
	2316	0.4		1311	1.3
3 SU	1531	1.2	18 MO	0203	0.3
	2332	0.4		1353	1.4
4 MO	1533	1.2	19 TU	0247	0.3
	2354	0.4		1436	1.4
5 TU	1540	1.3	20 WE	0337	0.4
				1517	1.4
6 WE	0021	0.4	21 TH	0101	0.4
	1551	1.3		1552	1.3
7 TH	0057	0.4	22 FR	0047	0.5
	1605	1.3		1622	1.3
8 FR	0145	0.5	23 SA	0048	0.5
	1621	1.3		0454	0.6
				0650	0.6
				1644	1.2
9 SA	0650	0.5	24 SU	0055	0.5
	1635	1.3		0550	0.7
				0719	0.7
				1656	1.1
10 SU	0744	0.5	25 MO	0102	0.6
	1642	1.2		1651	1.1
11 MO	0823	0.6	26 TU	0051	0.6
	1644	1.2		1536	1.0
12 TU	0857	0.6	27 WE	0017	0.6
	1647	1.1		1401	1.0
	2346	0.6			
13 WE	0604	0.8	28 TH	0000	0.5
	0906	0.8		1358	1.1
	1640	1.1		2344	0.5
	2353	0.5			
14 TH	1521	1.1	29 FR	1406	1.1
				2334	0.4
15 FR	0016	0.4	30 SA	1415	1.2
	1450	1.1		2341	0.3

DECEMBER

	Time	m		Time	m
1 SU	1423	1.2	16 MO	0108	0.2
	2353	0.3		1231	1.3
2 MO	1434	1.2	17 TU	0143	0.2
				1325	1.4
3 TU	0007	0.3	18 WE	0213	0.3
	1448	1.3		1416	1.4
4 WE	0027	0.3	19 TH	0149	0.4
	1502	1.3		1500	1.3
5 TH	0050	0.3	20 FR	0053	0.4
	1517	1.3		1537	1.3
6 FR	0116	0.4	21 SA	0035	0.5
	1533	1.3		1605	1.2
7 SA	0138	0.4	22 SU	0029	0.5
	1550	1.3		1624	1.2
8 SU	0147	0.5	23 MO	0026	0.5
	1600	1.2		1630	1.1
9 MO	0123	0.6	24 TU	0023	0.5
	1559	1.2		1604	1.0
10 TU	0040	0.6	25 WE	0010	0.5
	1552	1.1		1132	1.0
	2348	0.5		2351	0.5
11 WE	1539	1.1	26 TH	1127	1.1
	2331	0.4		2337	0.4
12 TH	1339	1.1	27 FR	1141	1.1
	2339	0.3		2329	0.4
13 FR	1010	1.2	28 SA	1207	1.2
				2333	0.3
14 SA	0002	0.2	29 SU	1243	1.2
	1049	1.2		2351	0.3
15 SU	0033	0.2	30 MO	1323	1.2
	1138	1.3			
			31 TU	0016	0.3
				1400	1.2

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55830

PAPUA NEW GUINEA - LAE

LAT 6° 45´ S LONG 147° 00´ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

JANUARY

	Time	m		Time	m
1 MO	0033	0.3	**16** TU	0043	0.4
	1632	1.1		1628	1.0
2 TU	0045	0.4	**17** WE	0039	0.4
	1642	1.1		1545	1.0
3 WE	0052	0.4	**18** TH	0024	0.5
	1644	1.0		1505	0.9
				2343	0.5
4 TH	0050	0.5	**19** FR	0929	0.9
	1615	0.9		2300	0.4
5 FR	0027	0.5	**20** SA	1013	1.0
	1156	0.9		2227	0.3
	2352	0.5			
6 SA	1205	1.0	**21** SU	1136	1.0
	2252	0.4		2233	0.2
7 SU	1230	1.1	**22** MO	1239	1.1
	2226	0.3		2250	0.2
8 MO	1302	1.1	**23** TU	1328	1.1
	2233	0.2		2308	0.2
9 TU	1339	1.2	**24** WE	1408	1.2
	2254	0.2		2322	0.2
10 WE	1417	1.2	**25** TH	1443	1.2
	2322	0.1		2329	0.2
11 TH	1455	1.3	**26** FR	1513	1.2
	2352	0.1		2332	0.3
12 FR	1533	1.3	**27** SA	1540	1.2
				2337	0.3
13 SA	0021	0.1	**28** SU	1602	1.2
	1607	1.3		2344	0.3
14 SU	0043	0.2	**29** MO	0635	0.7
	1635	1.2		0937	0.7
				1622	1.1
				2350	0.4
15 MO	0047	0.3	**30** TU	0643	0.8
	1651	1.1		1023	0.7
				1637	1.1
				2352	0.4
			31 WE	0654	0.8
				1110	0.7
				1647	1.0
				2351	0.4

FEBRUARY

	Time	m		Time	m
1 TH	0711	0.9	**16** FR	0626	1.0
	1202	0.7		2225	0.4
	1644	0.9			
	2340	0.4			
2 FR	0735	0.9	**17** SA	0633	1.1
	1317	0.8		2200	0.3
	1621	0.8			
	2318	0.4			
3 SA	0806	1.0	**18** SU	0652	1.1
	2255	0.4		2155	0.3
4 SU	0858	1.0	**19** MO	0724	1.1
	2223	0.4		2209	0.2
5 MO	1115	1.0	**20** TU	0815	1.0
	2209	0.3		1049	1.0
				1240	1.0
				2225	0.2
6 TU	1237	1.1	**21** WE	1339	1.0
	2219	0.2		2241	0.2
7 WE	1332	1.1	**22** TH	1417	1.1
	2240	0.1		2249	0.3
8 TH	1418	1.2	**23** FR	1447	1.1
	2306	0.1		2249	0.3
9 FR	1500	1.3	**24** SA	0523	0.8
	2330	0.1		0806	0.7
				1514	1.1
				2249	0.3
10 SA	1538	1.3	**25** SU	0512	0.8
	2350	0.2		0853	0.7
				1538	1.1
				2252	0.4
11 SU	1612	1.2	**26** MO	0515	0.8
	2355	0.3		0935	0.6
				1559	1.1
				2254	0.4
12 MO	0735	0.8	**27** TU	0520	0.9
	0928	0.8		1015	0.6
	1640	1.1		1620	1.0
	2343	0.4		2254	0.4
13 TU	0652	0.8	**28** WE	0528	0.9
	1023	0.8		1054	0.6
	1658	1.0		1638	1.0
	2332	0.4		2253	0.5
14 WE	0631	0.9	**29** TH	0540	1.0
	1117	0.7		1134	0.6
	1645	0.9		1653	0.9
	2319	0.5		2247	0.5
15 TH	0626	1.0			
	1214	0.8			
	1520	0.8			
	2251	0.5			

MARCH

	Time	m		Time	m
1 FR	0555	1.0	**16** SA	0519	1.2
	1218	0.6		2107	0.4
	1654	0.8			
	2232	0.5			
2 SA	0609	1.1	**17** SU	0529	1.2
	1312	0.6		2101	0.4
	1625	0.7			
	2215	0.5			
3 SU	0620	1.1	**18** MO	0548	1.2
	2155	0.4		2112	0.3
4 MO	0626	1.1	**19** TU	0609	1.1
	2133	0.3		2129	0.3
5 TU	0633	1.0	**20** WE	0632	1.0
	2132	0.3		1054	0.9
				1235	0.9
				2145	0.3
6 WE	0640	1.0	**21** TH	0636	0.9
	0933	1.0		1018	0.9
	1220	1.0		1335	1.0
	2147	0.2		2155	0.4
7 TH	0631	1.0	**22** FR	0517	0.9
	0905	1.0		0753	0.8
	1327	1.1		1410	1.0
	2208	0.2		2155	0.4
8 FR	1415	1.2	**23** SA	0424	0.9
	2230	0.2		0817	0.8
				1439	1.0
				2151	0.5
9 SA	0600	0.9	**24** SU	0409	0.9
	0900	0.9		0850	0.7
	1457	1.2		1506	1.0
	2248	0.3		2150	0.5
10 SU	0551	0.9	**25** MO	0409	1.0
	0932	0.8		0925	0.6
	1536	1.1		1532	1.0
	2254	0.4		2150	0.5
11 MO	0534	0.9	**26** TU	0414	1.0
	1009	0.7		1001	0.6
	1613	1.1		1557	0.9
	2241	0.5		2149	0.5
12 TU	0518	1.0	**27** WE	0422	1.1
	1047	0.7		1035	0.5
	1644	1.0		1621	0.9
	2226	0.5		2147	0.6
13 WE	0511	1.0	**28** TH	0434	1.1
	1127	0.6		1108	0.5
	1708	0.8		1644	0.8
	2212	0.6		2144	0.6
14 TH	0511	1.1	**29** FR	0449	1.2
	1208	0.6		1143	0.5
	1713	0.7		1705	0.7
	2147	0.5		2132	0.6
15 FR	0515	1.2	**30** SA	0503	1.2
	2124	0.5		1221	0.5
				1717	0.7
				2115	0.5
			31 SU	0514	1.2
				1312	0.5
				1643	0.6
				2058	0.5

APRIL

	Time	m		Time	m
1 MO	0520	1.2	**16** TU	0504	1.2
	2035	0.4		2014	0.4
2 TU	0522	1.1	**17** WE	0522	1.1
	2027	0.4		2034	0.4
3 WE	0521	1.1	**18** TH	0524	1.0
	2040	0.3		2046	0.5
4 TH	0513	1.1	**19** FR	0439	1.0
	2100	0.3		1027	0.8
				1256	0.9
				2046	0.5
5 FR	0458	1.0	**20** SA	0336	0.9
	0932	0.9		1002	0.8
	1310	1.0		1348	0.9
	2120	0.3		2038	0.6
6 SA	0445	1.0	**21** SU	0308	1.0
	0943	0.8		0929	0.7
	1405	1.0		1429	0.9
	2136	0.4		2032	0.6
7 SU	0432	1.0	**22** MO	0305	1.0
	1008	0.7		0933	0.6
	1454	1.0		1507	0.8
	2140	0.5		2029	0.6
8 MO	0416	1.0	**23** TU	0309	1.1
	1041	0.7		0957	0.5
	1543	1.0		1546	0.8
	2126	0.6		2029	0.6
9 TU	0404	1.1	**24** WE	0319	1.2
	1119	0.6		1024	0.5
	1630	0.9		1623	0.8
	2109	0.7		2028	0.7
10 WE	0403	1.1	**25** TH	0333	1.2
	1158	0.5		1053	0.4
	1717	0.8		1656	0.7
	2052	0.7		2022	0.7
11 TH	0409	1.2	**26** FR	0350	1.2
	1236	0.5		1122	0.4
				1729	0.7
				2000	0.6
12 FR	0416	1.3	**27** SA	0408	1.3
	1315	0.5		1154	0.4
13 SA	0423	1.3	**28** SU	0425	1.3
	1619	0.5		1234	0.4
14 SU	0430	1.3	**29** MO	0437	1.2
	1915	0.4		1331	0.4
15 MO	0445	1.2	**30** TU	0443	1.2
	1948	0.4		1805	0.5

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55980

PAPUA NEW GUINEA - LAE

LAT 6° 45´ S LONG 147° 00´ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

MAY

	Time	m		Time	m
1 WE	0442 1858	1.2 0.4	**16** TH	0454 1900	1.1 0.6
2 TH	0435 1930	1.1 0.4	**17** FR	0443 1857	1.0 0.6
3 FR	0415 1953	1.1 0.5	**18** SA	0306 1837	1.0 0.6
4 SA	0347 0942 1243 2005	1.1 0.8 0.9 0.5	**19** SU	0208 1032 1356 1831	1.0 0.7 0.7 0.7
5 SU	0326 1000 1406 2000	1.1 0.7 0.8 0.6	**20** MO	0157 1016 1533 1830	1.1 0.6 0.7 0.7
6 MO	0305 1030 1526 1945	1.1 0.6 0.8 0.7	**21** TU	0203 1014 1644 1815	1.1 0.5 0.7 0.7
7 TU	0252 1105 1647 1923	1.1 0.5 0.8 0.7	**22** WE	0215 1028	1.2 0.4
8 WE	0255 1143	1.2 0.4	**23** TH	0234 1050	1.2 0.4
9 TH	0307 1224	1.3 0.3	**24** FR	0255 1118	1.3 0.3
10 FR	0320 1304	1.3 0.3	**25** SA	0319 1149	1.3 0.3
11 SA	0333 1348	1.3 0.3	**26** SU	0343 1224	1.3 0.3
12 SU	0345 1449	1.3 0.4	**27** MO	0406 1306	1.3 0.3
13 MO	0359 1625	1.3 0.4	**28** TU	0423 1358	1.2 0.4
14 TU	0418 1750	1.2 0.5	**29** WE	0426 1508	1.2 0.4
15 WE	0439 1839	1.2 0.5	**30** TH	0416 1623	1.1 0.5
			31 FR	0357 1658	1.1 0.5

JUNE

	Time	m		Time	m
1 SA	0309 1700	1.0 0.6	**16** SU	0102 1251	1.0 0.6
2 SU	0224 1008 1254 1628	1.0 0.7 0.7 0.7	**17** MO	0041 1115	1.0 0.5
3 MO	0153 1018	1.1 0.5	**18** TU	0049 1033	1.1 0.5
4 TU	0137 1044	1.1 0.4	**19** WE	0107 1031	1.1 0.4
5 WE	0146 1116	1.2 0.3	**20** TH	0132 1045	1.2 0.3
6 TH	0203 1150	1.2 0.2	**21** FR	0201 1110	1.2 0.2
7 FR	0224 1224	1.3 0.2	**22** SA	0232 1140	1.3 0.2
8 SA	0248 1257	1.3 0.2	**23** SU	0306 1213	1.3 0.2
9 SU	0310 1320	1.3 0.3	**24** MO	0340 1245	1.3 0.2
10 MO	0331 1321	1.3 0.4	**25** TU	0410 1311	1.2 0.3
11 TU	0351 1319	1.2 0.4	**26** WE	0432 1328	1.2 0.3
12 WE	0411 1330	1.2 0.5	**27** TH	0425 1337	1.1 0.4
13 TH	0430 1339	1.1 0.5	**28** FR	0350 1342	1.0 0.5
14 FR	0439 1342	1.0 0.5	**29** SA	0314 1332	1.0 0.5
15 SA	0415 1331	1.0 0.6	**30** SU	0131 1221	1.0 0.5

JULY

	Time	m		Time	m
1 MO	0025 1030	1.0 0.5	**16** TU	1053 2339	0.4 1.0
2 TU	0010 1027	1.1 0.3	**17** WE	1025	0.3
3 WE	0031 1048	1.1 0.2	**18** TH	0024 1025	1.1 0.3
4 TH	0101 1115	1.2 0.2	**19** FR	0106 1042	1.1 0.2
5 FR	0135 1142	1.2 0.2	**20** SA	0148 1107	1.2 0.2
6 SA	0209 1208	1.2 0.2	**21** SU	0229 1134	1.2 0.2
7 SU	0243 1226	1.2 0.2	**22** MO	0308 1201	1.2 0.2
8 MO	0312 1226	1.2 0.3	**23** TU	0344 1221	1.2 0.2
9 TU	0338 1221	1.2 0.3	**24** WE	0415 1226	1.2 0.3
10 WE	0357 1224	1.2 0.4	**25** TH	0436 1221	1.1 0.4
11 TH	0412 1227 2058 2119	1.1 0.4 0.8 0.8	**26** FR	0418 1215 2015 2205	1.0 0.4 0.8 0.8
12 FR	0423 1227 2058 2257	1.0 0.5 0.8 0.8	**27** SA	0312 1200 1947	0.9 0.5 0.9
13 SA	0426 1220 2127	0.9 0.5 0.9	**28** SU	1118 1942	0.5 1.0
14 SU	0112 0400 1201 2209	0.8 0.9 0.5 0.9	**29** MO	1034 1949	0.4 1.0
15 MO	1134 2254	0.5 1.0	**30** TU	1004 2015	0.3 1.1
			31 WE	1013 2107	0.2 1.1

AUGUST

	Time	m		Time	m
1 TH	1034	0.2	**16** FR	0959	0.2
2 FR	0053 1057	1.1 0.2	**17** SA	0059 1017	1.1 0.2
3 SA	0139 1117	1.1 0.2	**18** SU	0146 1039	1.2 0.2
4 SU	0217 1130	1.1 0.2	**19** MO	0227 1102	1.2 0.2
5 MO	0248 1129	1.1 0.3	**20** TU	0306 1119	1.2 0.2
6 TU	0314 1122	1.1 0.3	**21** WE	0341 1122 1843 2126	1.2 0.3 0.8 0.8
7 WE	0336 1121 1807 2129	1.1 0.4 0.8 0.7	**22** TH	0411 1110 1811 2216	1.1 0.4 0.8 0.7
8 TH	0354 1121 1809 2217	1.1 0.4 0.8 0.7	**23** FR	0432 1059 1755 2308	0.9 0.5 0.9 0.7
9 FR	0409 1120 1817 2305	1.0 0.4 0.9 0.7	**24** SA	0409 1043 1751	0.8 0.5 1.0
10 SA	0418 1116 1829	0.9 0.4 0.9	**25** SU	1009 1753	0.5 1.1
11 SU	0000 0416 1105 1847	0.7 0.8 0.4 1.0	**26** MO	0941 1758	0.4 1.1
12 MO	0116 0353 1048 1907	0.7 0.8 0.4 1.0	**27** TU	0921 1814	0.3 1.1
13 TU	1030 1930	0.4 1.0	**28** WE	0924 1840	0.2 1.1
14 WE	1006 2010	0.3 1.0	**29** TH	0943 1919	0.2 1.0
15 TH	0952 2355	0.3 1.0	**30** FR	1004 2032 2224	0.2 1.0 1.0
			31 SA	0107 1022	1.0 0.2

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55980

PAPUA NEW GUINEA - LAE

LAT 6° 45´ S LONG 147° 00´ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

SEPTEMBER

	Time	m		Time	m
1 SU	0147	1.0	**16** MO	0139	1.1
	1032	0.3		0954	0.2
				1732	0.9
				2051	0.8
2 MO	0216	1.1	**17** TU	0220	1.1
	1027	0.3		1008	0.3
	1713	0.8		1718	0.9
	1954	0.7		2118	0.8
3 TU	0242	1.1	**18** WE	0300	1.1
	1018	0.4		1009	0.4
	1649	0.8		1659	0.9
	2040	0.7		2153	0.7
4 WE	0306	1.0	**19** TH	0338	1.0
	1015	0.4		0957	0.5
	1646	0.9		1644	1.0
	2121	0.6		2232	0.6
5 TH	0327	1.0	**20** FR	0413	0.9
	1013	0.4		0944	0.5
	1649	0.9		1639	1.0
	2200	0.6		2312	0.6
6 FR	0347	0.9	**21** SA	0440	0.7
	1013	0.5		0926	0.5
	1657	1.0		1642	1.1
	2239	0.6		2356	0.6
7 SA	0406	0.9	**22** SU	0443	0.6
	1011	0.5		0851	0.5
	1709	1.0		1645	1.2
	2318	0.6			
8 SU	0420	0.8	**23** MO	0824	0.4
	1004	0.5		1649	1.2
	1723	1.1			
9 MO	0001	0.6	**24** TU	0811	0.4
	0419	0.7		1659	1.2
	0952	0.5			
	1736	1.1			
10 TU	0055	0.6	**25** WE	0819	0.3
	0353	0.6		1717	1.2
	0940	0.4			
	1746	1.1			
11 WE	0926	0.4	**26** TH	0839	0.3
	1755	1.1		1739	1.1
12 TH	0908	0.3	**27** FR	0900	0.3
	1804	1.0		1758	1.0
13 FR	0905	0.3	**28** SA	0919	0.3
	1813	1.0		1757	0.9
				2220	0.9
14 SA	0917	0.2	**29** SU	0103	0.9
	1807	1.0		0927	0.4
	2105	0.9		1708	0.9
				2130	0.8
15 SU	0051	1.0	**30** MO	0137	0.9
	0936	0.2		0921	0.4
	1746	0.9		1606	0.9
	2046	0.9		2020	0.8

OCTOBER

	Time	m		Time	m
1 TU	0206	0.9	**16** WE	0216	0.9
	0908	0.5		0846	0.5
	1541	0.9		1543	1.0
	2041	0.7		2222	0.6
2 WE	0233	0.9	**17** TH	0305	0.9
	0902	0.5		0835	0.6
	1538	1.0		1531	1.1
	2112	0.6		2259	0.5
3 TH	0259	0.9	**18** FR	0357	0.8
	0900	0.5		0822	0.6
	1543	1.0		1533	1.2
	2145	0.5		2341	0.4
4 FR	0324	0.8	**19** SA	0455	0.7
	0901	0.5		0755	0.6
	1553	1.1		1542	1.2
	2217	0.5			
5 SA	0350	0.8	**20** SU	0031	0.4
	0900	0.5		1551	1.3
	1606	1.1			
	2249	0.5			
6 SU	0413	0.7	**21** MO	0208	0.4
	0857	0.5		1558	1.3
	1621	1.2			
	2321	0.4			
7 MO	0433	0.7	**22** TU	0427	0.4
	0848	0.5		1606	1.3
	1635	1.2			
	2358	0.4			
8 TU	0443	0.6	**23** WE	0621	0.4
	0836	0.5		1621	1.3
	1648	1.2			
9 WE	0045	0.5	**24** TH	0708	0.4
	0409	0.5		1640	1.2
	0826	0.5			
	1656	1.2			
10 TH	0807	0.4	**25** FR	0739	0.4
	1703	1.1		1658	1.1
11 FR	0756	0.4	**26** SA	0802	0.4
	1706	1.1		1705	1.0
12 SA	0805	0.3	**27** SU	0812	0.5
	1700	1.1		1632	1.0
				2235	0.8
13 SU	0821	0.3	**28** MO	0024	0.8
	1642	1.0		0804	0.5
	2126	0.9		1520	0.9
				2213	0.7
14 MO	0031	0.9	**29** TU	0121	0.8
	0837	0.3		0745	0.5
	1621	1.0		1442	1.0
	2131	0.8		2148	0.7
15 TU	0127	1.0	**30** WE	0202	0.8
	0848	0.4		0737	0.6
	1603	1.0		1436	1.0
	2152	0.7		2133	0.6
			31 TH	0240	0.8
				0736	0.6
				1443	1.1
				2145	0.5

NOVEMBER

	Time	m		Time	m
1 FR	0319	0.7	**16** SA	1446	1.3
	0737	0.6			
	1455	1.2			
	2207	0.4			
2 SA	0355	0.7	**17** SU	0003	0.3
	0736	0.6		1502	1.3
	1509	1.2			
	2232	0.4			
3 SU	0430	0.6	**18** MO	0048	0.2
	0730	0.6		1519	1.3
	1527	1.2			
	2259	0.3			
4 MO	0501	0.6	**19** TU	0142	0.3
	0710	0.6		1533	1.3
	1546	1.3			
	2329	0.3			
5 TU	0534	0.5	**20** WE	0253	0.3
	0637	0.5		1547	1.3
	1604	1.3			
6 WE	0005	0.3	**21** TH	0415	0.4
	1621	1.2		1604	1.2
7 TH	0054	0.4	**22** FR	0523	0.4
	1632	1.2		1624	1.2
8 FR	0510	0.4	**23** SA	0607	0.5
	1635	1.2		1639	1.1
9 SA	0612	0.4	**24** SU	0621	0.5
	1631	1.1		1636	1.0
10 SU	0642	0.4	**25** MO	0539	0.6
	1611	1.1		1517	1.0
11 MO	0700	0.4	**26** TU	0508	0.6
	1533	1.0		1349	1.0
				2249	0.6
12 TU	0706	0.5	**27** WE	1335	1.1
	1504	1.0		2228	0.5
	2150	0.7			
13 WE	0130	0.8	**28** TH	1342	1.1
	0702	0.6		2218	0.4
	1439	1.1			
	2214	0.5			
14 TH	0258	0.7	**29** FR	1358	1.2
	0652	0.6		2221	0.4
	1424	1.1			
	2246	0.4			
15 FR	0438	0.7	**30** SA	1418	1.2
	0619	0.7		2235	0.3
	1431	1.2			
	2322	0.3			

DECEMBER

	Time	m		Time	m
1 SU	1441	1.3	**16** MO	0003	0.1
	2256	0.2		1448	1.3
2 MO	1506	1.3	**17** TU	0037	0.2
	2322	0.2		1517	1.3
3 TU	1532	1.3	**18** WE	0104	0.2
	2352	0.2		1541	1.3
4 WE	1557	1.3	**19** TH	0109	0.3
				1559	1.2
5 TH	0026	0.3	**20** FR	0057	0.3
	1619	1.3		1611	1.2
6 FR	0105	0.3	**21** SA	0059	0.4
	1632	1.2		1623	1.1
7 SA	0148	0.4	**22** SU	0102	0.4
	1628	1.1		1632	1.0
8 SU	0231	0.4	**23** MO	0057	0.5
	1611	1.1		1625	1.0
9 MO	0307	0.5	**24** TU	0043	0.5
	1531	1.0		1254	0.9
10 TU	0326	0.5	**25** WE	0013	0.5
	1418	1.0		1219	1.0
				2318	0.5
11 WE	0120	0.6	**26** TH	1234	1.0
	1339	1.0		2243	0.4
	2213	0.5			
12 TH	1318	1.1	**27** FR	1258	1.1
	2230	0.3		2235	0.3
13 FR	1330	1.2	**28** SA	1327	1.2
	2258	0.2		2239	0.2
14 SA	1352	1.2	**29** SU	1358	1.2
	2329	0.2		2255	0.2
15 SU	1420	1.3	**30** MO	1432	1.2
				2317	0.2
			31 TU	1506	1.3
				2342	0.2

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55980

PAPUA NEW GUINEA - DREGERHAFEN (DREGER HARBOUR)

LAT 6° 39′ S LONG 147° 53′ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

JANUARY

	Time	m		Time	m
1 MO	0026	0.4	16 TU	0025	0.4
	1634	1.2		1618	1.1
2 TU	0030	0.4	17 WE	0020	0.4
	1644	1.1		0839	0.8
				0948	0.8
				1558	1.0
3 WE	0043	0.4	18 TH	0002	0.5
	1641	1.0		1520	0.9
				2342	0.4
4 TH	0049	0.5	19 FR	0917	1.0
	1620	0.9		2304	0.4
5 FR	0032	0.5	20 SA	0959	1.0
	1134	1.0		2226	0.3
6 SA	0000	0.5	21 SU	1108	1.1
	1153	1.0		2230	0.3
	2303	0.5			
7 SU	1223	1.1	22 MO	1245	1.1
	2229	0.4		2249	0.2
8 MO	1256	1.1	23 TU	1337	1.1
	2230	0.3		2309	0.2
9 TU	1333	1.2	24 WE	1415	1.2
	2249	0.2		2324	0.2
10 WE	1413	1.3	25 TH	1448	1.2
	2317	0.2		2331	0.3
11 TH	1453	1.3	26 FR	1517	1.2
	2347	0.2		2336	0.3
12 FR	1529	1.3	27 SA	1543	1.2
				2345	0.3
13 SA	0013	0.2	28 SU	1604	1.2
	1602	1.3		2348	0.4
14 SU	0028	0.2	29 MO	0623	0.7
	1628	1.2		0933	0.7
				1621	1.2
				2343	0.4
15 MO	0029	0.3	30 TU	0636	0.8
	1644	1.2		1021	0.7
				1636	1.1
				2345	0.4
			31 WE	0650	0.9
				1111	0.7
				1645	1.0
				2348	0.4

FEBRUARY

	Time	m		Time	m
1 TH	0703	0.9	16 FR	0619	1.1
	1206	0.8		1342	0.8
	1641	0.9		1514	0.8
	2339	0.5		2231	0.4
2 FR	0718	1.0	17 SA	0624	1.1
	1330	0.8		2206	0.4
	1630	0.8			
	2322	0.5			
3 SA	0739	1.0	18 SU	0643	1.1
	2300	0.4		2150	0.3
4 SU	0811	1.0	19 MO	0715	1.1
	2229	0.4		2204	0.3
5 MO	1049	1.0	20 TU	0817	1.0
	2217	0.3		1041	1.0
				1308	1.0
				2223	0.3
6 TU	1234	1.1	21 WE	1357	1.1
	2225	0.2		2241	0.3
7 WE	1333	1.2	22 TH	1429	1.1
	2245	0.2		2250	0.3
8 TH	1419	1.2	23 FR	1456	1.1
	2310	0.2		2249	0.3
9 FR	1459	1.3	24 SA	0516	0.8
	2332	0.2		0759	0.7
				1520	1.2
				2252	0.4
10 SA	1535	1.3	25 SU	0511	0.8
	2343	0.2		0850	0.7
				1543	1.1
				2257	0.4
11 SU	1605	1.2	26 MO	0515	0.9
	2341	0.3		0933	0.7
				1602	1.1
				2254	0.4
12 MO	0700	0.8	27 TU	0524	0.9
	0933	0.8		1015	0.7
	1630	1.1		1619	1.1
	2329	0.4		2250	0.5
13 TU	0630	0.8	28 WE	0530	1.0
	1034	0.7		1057	0.6
	1647	1.0		1635	1.0
	2322	0.4		2252	0.5
14 WE	0620	0.9	29 TH	0536	1.0
	1131	0.7		1139	0.6
	1642	0.9		1650	0.9
	2308	0.5		2247	0.5
15 TH	0618	1.0			
	1228	0.7			
	1550	0.8			
	2251	0.5			

MARCH

	Time	m		Time	m
1 FR	0545	1.1	16 SA	0520	1.2
	1224	0.6		2123	0.5
	1654	0.8			
	2237	0.5			
2 SA	0555	1.1	17 SU	0529	1.2
	1319	0.7		2059	0.4
	1640	0.7			
	2224	0.5			
3 SU	0602	1.1	18 MO	0548	1.2
	2204	0.4		2107	0.4
4 MO	0610	1.1	19 TU	0607	1.1
	2144	0.4		2126	0.4
5 TU	0626	1.1	20 WE	0621	1.0
	2144	0.3		1052	0.9
				1307	1.0
				2145	0.4
6 WE	0648	1.1	21 TH	0612	0.9
	0959	1.0		1008	0.9
	1218	1.0		1354	1.0
	2156	0.3		2156	0.4
7 TH	0708	1.0	22 FR	0530	0.9
	0902	1.0		0831	0.9
	1329	1.1		1424	1.0
	2213	0.2		2154	0.4
8 FR	1416	1.2	23 SA	0424	0.9
	2232	0.3		0843	0.8
				1448	1.1
				2153	0.5
9 SA	0600	0.9	24 SU	0414	0.9
	0911	0.9		0909	0.7
	1458	1.2		1513	1.1
	2244	0.3		2154	0.5
10 SU	0541	0.9	25 MO	0413	1.0
	0941	0.8		0938	0.7
	1535	1.2		1538	1.0
	2244	0.4		2152	0.5
11 MO	0531	0.9	26 TU	0421	1.1
	1016	0.7		1008	0.6
	1608	1.1		1600	1.0
	2234	0.5		2149	0.6
12 TU	0517	1.0	27 WE	0428	1.1
	1052	0.7		1039	0.6
	1636	1.0		1620	0.9
	2224	0.5		2151	0.6
13 WE	0510	1.1	28 TH	0433	1.2
	1129	0.6		1110	0.5
	1657	0.8		1639	0.9
	2213	0.6		2150	0.6
14 TH	0510	1.2	29 FR	0443	1.2
	1208	0.6		1146	0.5
	1704	0.7		1658	0.8
	2156	0.5		2143	0.6
15 FR	0515	1.2	30 SA	0456	1.2
	1250	0.6		1224	0.5
	1550	0.7		1713	0.7
	2138	0.5		2136	0.6
			31 SU	0508	1.2
				1312	0.5
				1703	0.6
				2119	0.5

APRIL

	Time	m		Time	m
1 MO	0517	1.2	16 TU	0510	1.2
	1439	0.6		2013	0.5
	1554	0.6			
	2052	0.5			
2 TU	0526	1.2	17 WE	0524	1.1
	2045	0.4		2034	0.5
3 WE	0535	1.1	18 TH	0516	1.0
	2051	0.4		2043	0.5
4 TH	0533	1.1	19 FR	0451	1.0
	2104	0.4		1026	0.9
				1321	0.9
				2041	0.6
5 FR	0515	1.0	20 SA	0336	1.0
	0934	0.9		1000	0.8
	1309	1.0		1402	0.9
	2120	0.4		2039	0.6
6 SA	0446	1.0	21 SU	0314	1.0
	0937	0.9		0924	0.8
	1406	1.1		1436	0.9
	2132	0.4		2036	0.6
7 SU	0428	1.0	22 MO	0307	1.1
	0959	0.8		0939	0.7
	1456	1.0		1509	0.9
	2135	0.5		2029	0.7
8 MO	0417	1.1	23 TU	0314	1.2
	1030	0.7		1001	0.6
	1545	1.0		1543	0.9
	2124	0.6		2030	0.7
9 TU	0411	1.1	24 WE	0324	1.2
	1105	0.6		1024	0.5
	1632	0.9		1616	0.8
	2115	0.7		2035	0.7
10 WE	0409	1.2	25 TH	0333	1.3
	1137	0.5		1048	0.4
	1715	0.8		1645	0.8
	2102	0.7		2036	0.7
11 TH	0411	1.3	26 FR	0346	1.3
	1207	0.5		1115	0.4
	1755	0.7		1710	0.7
	2037	0.7		2032	0.7
12 FR	0418	1.3	27 SA	0404	1.3
	1238	0.5		1148	0.4
				1734	0.7
				2024	0.6
13 SA	0427	1.3	28 SU	0423	1.3
	1316	0.5		1228	0.4
				1759	0.6
				1957	0.6
14 SU	0435	1.3	29 MO	0439	1.3
	1907	0.5		1322	0.5
15 MO	0451	1.2	30 TU	0449	1.2
	1945	0.5		1749	0.5

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55990

PAPUA NEW GUINEA - DREGERHAFEN (DREGER HARBOUR)

LAT 6° 39′ S LONG 147° 53′ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

MAY

	Time	m		Time	m
1 WE	0452	1.2	16 TH	0455	1.1
	1854	0.5		1843	0.6
2 TH	0445	1.1	17 FR	0431	1.0
	1926	0.5		1847	0.6
3 FR	0421	1.1	18 SA	0304	1.0
	1949	0.5		1829	0.7
4 SA	0345	1.1	19 SU	0205	1.1
	0945	0.9		1035	0.7
	1236	0.9		1349	0.8
	2001	0.6		1817	0.7
5 SU	0320	1.1	20 MO	0154	1.1
	1002	0.7		1008	0.7
	1405	0.9		1539	0.8
	1954	0.7		1823	0.7
6 MO	0301	1.1	21 TU	0202	1.2
	1028	0.6		0957	0.6
	1529	0.8		1637	0.8
	1947	0.7		1828	0.7
7 TU	0258	1.2	22 WE	0215	1.2
	1100	0.5		1013	0.5
	1651	0.8		1737	0.7
	1932	0.8		1814	0.7
8 WE	0302	1.3	23 TH	0230	1.3
	1135	0.4		1037	0.4
9 TH	0308	1.3	24 FR	0249	1.3
	1210	0.4		1103	0.3
10 FR	0319	1.3	25 SA	0314	1.3
	1244	0.4		1132	0.3
11 SA	0333	1.3	26 SU	0341	1.3
	1317	0.4		1209	0.3
12 SU	0347	1.3	27 MO	0408	1.3
	1352	0.4		1252	0.4
13 MO	0404	1.3	28 TU	0429	1.3
	1445	0.5		1341	0.4
14 TU	0425	1.2	29 WE	0431	1.2
	1740	0.5		1436	0.5
15 WE	0447	1.2	30 TH	0423	1.2
	1825	0.6		1531	0.5
			31 FR	0352	1.1
				1611	0.6

JUNE

	Time	m		Time	m
1 SA	0259	1.1	16 SU	0040	1.0
	1608	0.7		1306	0.6
2 SU	0215	1.1	17 MO	0033	1.1
	1009	0.7		1131	0.6
3 MO	0139	1.1	18 TU	0045	1.1
	1020	0.6		1026	0.5
4 TU	0138	1.2	19 WE	0104	1.2
	1046	0.4		1010	0.4
5 WE	0147	1.2	20 TH	0128	1.2
	1116	0.3		1023	0.4
6 TH	0200	1.3	21 FR	0156	1.3
	1148	0.3		1050	0.3
7 FR	0217	1.3	22 SA	0229	1.3
	1220	0.3		1123	0.3
8 SA	0241	1.3	23 SU	0305	1.3
	1250	0.3		1156	0.3
9 SU	0307	1.3	24 MO	0340	1.3
	1312	0.3		1227	0.3
10 MO	0331	1.3	25 TU	0412	1.3
	1326	0.4		1252	0.3
11 TU	0354	1.2	26 WE	0437	1.2
	1337	0.5		1311	0.4
12 WE	0417	1.2	27 TH	0426	1.2
	1330	0.5		1321	0.5
13 TH	0435	1.1	28 FR	0400	1.1
	1323	0.5		1324	0.5
14 FR	0437	1.1	29 SA	0311	1.0
	1337	0.6		1305	0.6
15 SA	0401	1.0	30 SU	0116	1.0
	1342	0.6		1228	0.6

JULY

	Time	m		Time	m
1 MO	0000	1.1	16 TU	1058	0.5
	1051	0.5		2336	1.1
2 TU	0004	1.1	17 WE	1023	0.4
	1028	0.4			
3 WE	0026	1.2	18 TH	0021	1.1
	1050	0.3		1018	0.3
4 TH	0054	1.2	19 FR	0106	1.2
	1117	0.3		1031	0.3
5 FR	0128	1.2	20 SA	0149	1.2
	1143	0.2		1057	0.2
6 SA	0205	1.2	21 SU	0230	1.3
	1209	0.3		1127	0.2
7 SU	0241	1.2	22 MO	0309	1.3
	1224	0.3		1151	0.2
8 MO	0314	1.2	23 TU	0343	1.3
	1228	0.3		1204	0.3
9 TU	0343	1.2	24 WE	0412	1.2
	1231	0.4		1206	0.4
10 WE	0403	1.2	25 TH	0433	1.1
	1226	0.4		1204	0.4
				1935	0.8
				2138	0.8
11 TH	0419	1.1	26 FR	0428	1.0
	1217	0.5		1200	0.5
	1954	0.8		1926	0.9
	2215	0.8		2301	0.8
12 FR	0430	1.1	27 SA	0347	0.9
	1221	0.5		1146	0.5
	2025	0.9		1928	1.0
	2329	0.8			
13 SA	0429	1.0	28 SU	0110	0.9
	1226	0.5		0307	0.9
	2108	0.9		1125	0.5
				1920	1.0
14 SU	0138	0.9	29 MO	1053	0.4
	0406	0.9		1928	1.1
	1212	0.5			
	2157	1.0			
15 MO	1144	0.5	30 TU	1011	0.4
	2248	1.0		2001	1.1
			31 WE	1013	0.3
				2107	1.1

AUGUST

	Time	m		Time	m
1 TH	1035	0.2	16 FR	1003	0.3
2 FR	0059	1.1	17 SA	0101	1.1
	1058	0.2		1017	0.2
3 SA	0147	1.2	18 SU	0149	1.2
	1118	0.3		1037	0.2
4 SU	0222	1.2	19 MO	0229	1.2
	1128	0.3		1056	0.2
5 MO	0252	1.2	20 TU	0305	1.2
	1124	0.3		1106	0.3
6 TU	0319	1.2	21 WE	0338	1.2
	1125	0.4		1103	0.4
	1747	0.8		1759	0.9
	2039	0.7		2139	0.8
7 WE	0343	1.2	22 TH	0405	1.1
	1124	0.4		1056	0.4
	1748	0.8		1742	0.9
	2129	0.7		2228	0.7
8 TH	0402	1.1	23 FR	0425	1.0
	1117	0.4		1050	0.5
	1758	0.9		1736	1.0
	2218	0.7		2317	0.7
9 FR	0417	1.1	24 SA	0426	0.9
	1117	0.5		1039	0.5
	1807	0.9		1738	1.1
	2308	0.7			
10 SA	0430	1.0	25 SU	0009	0.7
	1121	0.5		0338	0.8
	1818	1.0		1024	0.5
				1742	1.2
11 SU	0005	0.7	26 MO	0115	0.7
	0432	0.9		0312	0.7
	1115	0.5		1007	0.4
	1833	1.0		1749	1.2
12 MO	0125	0.7	27 TU	0948	0.4
	0421	0.8		1807	1.2
	1101	0.5			
	1850	1.1			
13 TU	1045	0.5	28 WE	0929	0.3
	1910	1.1		1834	1.1
14 WE	1013	0.4	29 TH	0944	0.3
	1945	1.1		1912	1.1
15 TH	1000	0.4	30 FR	1005	0.3
	2352	1.1			
			31 SA	0121	1.0
				1023	0.3

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55990

PAPUA NEW GUINEA - DREGERHAFEN (DREGER HARBOUR)

LAT 6° 39′ S LONG 147° 53′ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

SEPTEMBER

	Time	m		Time	m
1 SU	0158	1.1	**16** MO	0139	1.1
	1029	0.3		0948	0.3
				1717	0.9
				2045	0.9
2 MO	0225	1.1	**17** TU	0220	1.1
	1021	0.4		0957	0.4
	1647	0.8		1658	0.9
	1957	0.7		2114	0.8
3 TU	0250	1.1	**18** WE	0258	1.1
	1018	0.4		0954	0.4
	1637	0.9		1642	1.0
	2043	0.7		2149	0.7
4 WE	0313	1.1	**19** TH	0333	1.0
	1018	0.5		0948	0.5
	1639	0.9		1633	1.0
	2123	0.7		2225	0.6
5 TH	0335	1.1	**20** FR	0404	0.9
	1014	0.5		0942	0.5
	1647	1.0		1630	1.1
	2202	0.6		2300	0.6
6 FR	0354	1.0	**21** SA	0428	0.8
	1014	0.5		0931	0.6
	1654	1.1		1633	1.2
	2241	0.6		2336	0.5
7 SA	0412	0.9	**22** SU	0437	0.7
	1018	0.5		0916	0.5
	1702	1.1		1641	1.3
	2320	0.6			
8 SU	0431	0.9	**23** MO	0015	0.5
	1018	0.5		0333	0.6
	1714	1.1		0903	0.5
				1649	1.3
9 MO	0003	0.6	**24** TU	0858	0.4
	0443	0.8		1702	1.3
	1011	0.5			
	1727	1.2			
10 TU	0054	0.6	**25** WE	0837	0.4
	0437	0.7		1722	1.2
	1004	0.5			
	1738	1.2			
11 WE	0217	0.6	**26** TH	0844	0.4
	0402	0.6		1744	1.1
	0949	0.5			
	1749	1.1			
12 TH	0926	0.4	**27** FR	0904	0.4
	1805	1.1		1801	1.0
				2331	0.9
13 FR	0921	0.4	**28** SA	0015	0.9
	1825	1.1		0921	0.4
				1753	1.0
				2216	0.9
14 SA	0924	0.3	**29** SU	0116	1.0
				0924	0.4
				1715	0.9
				2034	0.9
15 SU	0050	1.1	**30** MO	0149	1.0
	0934	0.3		0913	0.5
				1553	0.9
				2034	0.8

OCTOBER

	Time	m		Time	m
1 TU	0216	1.0	**16** WE	0213	1.0
	0908	0.5		0830	0.5
	1538	1.0		1533	1.1
	2055	0.7		2200	0.6
2 WE	0241	1.0	**17** TH	0302	0.9
	0905	0.5		0828	0.6
	1537	1.0		1528	1.1
	2121	0.6		2230	0.5
3 TH	0307	1.0	**18** FR	0352	0.8
	0902	0.6		0823	0.6
	1545	1.1		1530	1.2
	2149	0.6		2301	0.5
4 FR	0331	0.9	**19** SA	0440	0.7
	0905	0.6		0806	0.6
	1553	1.2		1536	1.3
	2217	0.5		2330	0.4
5 SA	0352	0.9	**20** SU	0527	0.6
	0910	0.6		0738	0.6
	1602	1.2		1547	1.3
	2246	0.5		2358	0.4
6 SU	0413	0.8	**21** MO	1559	1.4
	0914	0.6			
	1613	1.3			
	2317	0.4			
7 MO	0434	0.7	**22** TU	0027	0.4
	0914	0.5		1611	1.3
	1630	1.3			
	2353	0.4			
8 TU	0454	0.7	**23** WE	0644	0.4
	0912	0.5		1628	1.3
	1647	1.3			
9 WE	0036	0.5	**24** TH	0721	0.4
	0503	0.6		1650	1.2
	0905	0.5			
	1700	1.2			
10 TH	0144	0.5	**25** FR	0748	0.4
	0423	0.6		1708	1.1
	0838	0.5			
	1711	1.2			
11 FR	0822	0.4	**26** SA	0804	0.5
	1721	1.1		1708	1.0
12 SA	0811	0.4	**27** SU	0802	0.5
	1721	1.1		1641	1.0
				2307	0.8
13 SU	0817	0.4	**28** MO	0042	0.8
	1659	1.0		0753	0.6
	2131	0.9		1514	1.0
				2214	0.8
14 MO	0017	1.0	**29** TU	0132	0.8
	0829	0.4		0744	0.6
	1618	1.0		1441	1.0
	2121	0.8		2128	0.7
15 TU	0121	1.0	**30** WE	0208	0.8
	0836	0.5		0734	0.6
	1552	1.0		1436	1.1
	2136	0.7		2127	0.6
			31 TH	0242	0.8
				0734	0.6
				1443	1.2
				2143	0.5

NOVEMBER

	Time	m		Time	m
1 FR	0316	0.8	**16** SA	1439	1.3
	0739	0.6		2341	0.3
	1454	1.2			
	2203	0.4			
2 SA	0347	0.7	**17** SU	1454	1.3
	0747	0.6			
	1506	1.3			
	2223	0.4			
3 SU	0415	0.7	**18** MO	0017	0.3
	0754	0.6		1513	1.4
	1520	1.3			
	2247	0.3			
4 MO	0437	0.7	**19** TU	0052	0.3
	0759	0.6		1532	1.3
	1540	1.3			
	2315	0.3			
5 TU	0457	0.6	**20** WE	0125	0.4
	0803	0.6		1550	1.3
	1602	1.3			
	2351	0.4			
6 WE	0523	0.6	**21** TH	0200	0.4
	0756	0.6		1610	1.2
	1623	1.3			
7 TH	0036	0.4	**22** FR	0515	0.5
	0559	0.5		1631	1.2
	0711	0.5			
	1639	1.3			
8 FR	0142	0.5	**23** SA	0553	0.5
	1647	1.2		1645	1.1
9 SA	0550	0.5	**24** SU	0203	0.6
	1647	1.1		1634	1.0
10 SU	0631	0.5	**25** MO	0242	0.6
	1623	1.1		1538	1.0
11 MO	0648	0.5	**26** TU	0333	0.6
	1541	1.0		1343	1.0
				2305	0.6
12 TU	0637	0.6	**27** WE	1332	1.1
	1458	1.1		2228	0.6
	2155	0.7			
13 WE	0116	0.8	**28** TH	1340	1.2
	0637	0.6		2202	0.5
	1425	1.1			
	2213	0.6			
14 TH	0244	0.7	**29** FR	1356	1.2
	0633	0.7		2203	0.4
	1420	1.2			
	2238	0.4			
15 FR	1427	1.3	**30** SA	1414	1.3
	2308	0.3		2221	0.3

DECEMBER

	Time	m		Time	m
1 SU	1434	1.3	**16** MO	0001	0.2
	2242	0.3		1439	1.3
2 MO	1459	1.3	**17** TU	0033	0.2
	2306	0.3		1510	1.3
3 TU	1527	1.3	**18** WE	0059	0.3
	2334	0.3		1538	1.3
4 WE	1556	1.3	**19** TH	0106	0.3
				1559	1.2
5 TH	0008	0.3	**20** FR	0104	0.4
	1621	1.3		1613	1.2
6 FR	0046	0.3	**21** SA	0050	0.4
	1635	1.2		1625	1.1
7 SA	0126	0.4	**22** SU	0041	0.5
	1632	1.2		1632	1.1
8 SU	0202	0.4	**23** MO	0047	0.5
	1623	1.1		1617	1.0
9 MO	0227	0.5	**24** TU	0045	0.5
	1533	1.0		1221	0.9
10 TU	0232	0.6	**25** WE	0010	0.5
	1417	1.0		1215	1.0
				2325	0.5
11 WE	0131	0.6	**26** TH	1230	1.1
	1316	1.1		2240	0.4
	2221	0.5			
12 TH	1310	1.1	**27** FR	1254	1.1
	2236	0.4		2232	0.4
13 FR	1323	1.2	**28** SA	1324	1.2
	2301	0.3		2225	0.3
14 SA	1343	1.2	**29** SU	1356	1.2
	2329	0.2		2240	0.3
15 SU	1409	1.3	**30** MO	1429	1.3
				2306	0.2
			31 TU	1503	1.3
				2332	0.2

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55990

PAPUA NEW GUINEA - MADANG (NAGADA HARBOUR)

LAT 5° 13′ S LONG 145° 48′ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

JANUARY

	Time	m		Time	m
1 MO	0351	0.5	16 TU	0412	0.5
	1511	1.1		1251	1.1
2 TU	0424	0.6	17 WE	0508	0.6
	1457	1.1		1303	1.1
				2104	0.7
3 WE	0455	0.6	18 TH	0325	0.8
	1427	1.1		0607	0.8
	2312	0.7		1320	1.1
				2117	0.5
4 TH	0232	0.7	19 FR	0509	0.9
	0522	0.7		0704	0.9
	1358	1.1		1339	1.2
	2225	0.6		2145	0.4
5 FR	1343	1.1	20 SA	1402	1.2
	2219	0.5		2217	0.3
6 SA	1340	1.1	21 SU	1425	1.2
	2230	0.4		2249	0.2
7 SU	1346	1.2	22 MO	1446	1.2
	2249	0.3		2322	0.2
8 MO	1401	1.2	23 TU	1500	1.2
	2315	0.3		2353	0.2
9 TU	1425	1.3	24 WE	1509	1.2
	2346	0.2			
10 WE	1456	1.3	25 TH	0025	0.2
				1516	1.2
11 TH	0022	0.2	26 FR	0054	0.3
	1533	1.3		1525	1.2
12 FR	0102	0.2	27 SA	0119	0.4
	1611	1.3		1535	1.2
13 SA	0147	0.2	28 SU	0141	0.4
	1646	1.3		1538	1.1
14 SU	0232	0.3	29 MO	0157	0.5
	1708	1.2		1528	1.1
15 MO	0321	0.4	30 TU	0206	0.6
	1258	1.1		1506	1.0
			31 WE	0158	0.7
				1425	1.0
				2348	0.7

FEBRUARY

	Time	m		Time	m
1 TH	1256	1.0	16 FR	0440	1.0
	2146	0.6		0742	0.9
				1214	1.1
				2034	0.4
2 FR	1227	1.0	17 SA	0503	1.0
	2125	0.6		0845	1.0
				1254	1.1
				2110	0.3
3 SA	1228	1.0	18 SU	0534	1.1
	2131	0.5		0928	1.0
				1334	1.1
				2145	0.3
4 SU	1245	1.1	19 MO	0609	1.1
	2149	0.4		0956	1.0
				1412	1.1
				2218	0.2
5 MO	1313	1.1	20 TU	0652	1.1
	2213	0.3		1008	1.0
				1444	1.1
				2249	0.3
6 TU	1347	1.2	21 WE	0752	1.0
	2243	0.2		1004	1.0
				1509	1.1
				2320	0.3
7 WE	1426	1.3	22 TH	1524	1.1
	2317	0.2		2346	0.4
8 TH	1505	1.3	23 FR	1534	1.1
	2353	0.2			
9 FR	1546	1.3	24 SA	0007	0.4
				1542	1.1
10 SA	0031	0.2	25 SU	0024	0.5
	1627	1.3		1551	1.1
11 SU	0109	0.3	26 MO	0035	0.6
	1708	1.2		1557	1.0
12 MO	0147	0.4	27 TU	0038	0.7
	1023	1.0		1540	1.0
	1315	1.0			
	1745	1.1			
13 TU	0220	0.6	28 WE	0025	0.7
	1042	1.0		0757	0.9
				2221	0.8
14 WE	0236	0.7	29 TH	0647	0.9
	1109	1.0		2018	0.7
	1923	0.7			
15 TH	1139	1.1			
	1958	0.5			

MARCH

	Time	m		Time	m
1 FR	0624	1.0	16 SA	0404	1.2
	2004	0.6		1945	0.4
2 SA	0602	1.0	17 SU	0423	1.2
	2015	0.5		2026	0.3
3 SU	0532	1.0	18 MO	0447	1.2
	2035	0.4		0958	1.0
				1307	1.0
				2102	0.3
4 MO	0513	1.1	19 TU	0514	1.1
	0836	1.0		1014	1.0
	1134	1.1		1400	1.1
	2101	0.3		2136	0.4
5 TU	0515	1.1	20 WE	0544	1.1
	0820	1.0		1025	1.0
	1242	1.1		1439	1.1
	2131	0.3		2206	0.4
6 WE	0532	1.1	21 TH	0616	1.1
	0830	1.0		1033	1.0
	1335	1.2		1510	1.1
	2204	0.2		2232	0.5
7 TH	0558	1.1	22 FR	0643	1.0
	0858	1.0		1042	0.9
	1422	1.2		1534	1.1
	2239	0.2		2252	0.5
8 FR	0625	1.0	23 SA	0642	1.0
	0936	1.0		1049	0.9
	1508	1.3		1554	1.0
	2314	0.3		2306	0.6
9 SA	0651	1.0	24 SU	0617	1.0
	1024	0.9		1059	0.9
	1554	1.2		1616	1.0
	2348	0.4		2315	0.7
10 SU	0715	1.0	25 MO	0548	1.0
	1122	0.9		1124	0.9
	1646	1.2		1644	0.9
				2313	0.8
11 MO	0021	0.5	26 TU	0512	1.0
	0739	1.0		1205	0.8
	1229	0.8		1735	0.9
	1751	1.0		2247	0.8
12 TU	0047	0.7	27 WE	0454	1.0
	0804	1.0		1301	0.8
	1356	0.8			
	1953	0.9			
13 WE	0047	0.8	28 TH	0449	1.1
	0829	1.0		1707	0.7
	1611	0.7			
14 TH	0858	1.0	29 FR	0445	1.1
	1802	0.5		1758	0.6
15 FR	0358	1.1	30 SA	0439	1.1
	0801	1.0		1834	0.5
	0934	1.0			
	1859	0.4			
			31 SU	0431	1.2
				1906	0.5

APRIL

	Time	m		Time	m
1 MO	0421	1.2	16 TU	0404	1.2
	1939	0.4		1021	1.0
				1226	1.0
				2015	0.4
2 TU	0414	1.2	17 WE	0426	1.2
	2012	0.4		1026	0.9
				1341	1.0
				2046	0.5
3 WE	0419	1.2	18 TH	0445	1.2
	0859	1.1		1039	0.9
	1206	1.1		1432	1.0
	2046	0.3		2112	0.6
4 TH	0433	1.2	19 FR	0456	1.1
	0901	1.0		1054	0.9
	1321	1.1		1516	1.0
	2121	0.4		2131	0.6
5 FR	0452	1.2	20 SA	0454	1.1
	0928	1.0		1113	0.9
	1420	1.2		1559	1.0
	2154	0.4		2144	0.7
6 SA	0511	1.1	21 SU	0440	1.1
	1008	0.9		1134	0.8
	1518	1.1		1650	0.9
	2227	0.5		2149	0.8
7 SU	0529	1.1	22 MO	0418	1.1
	1057	0.8		1159	0.8
	1622	1.1		1805	0.9
	2256	0.7		2136	0.9
8 MO	0545	1.1	23 TU	0354	1.1
	1153	0.7		1227	0.7
	1747	1.0			
	2317	0.8			
9 TU	0558	1.1	24 WE	0342	1.2
	1254	0.6		1259	0.6
	2041	1.0			
	2258	1.0			
10 WE	0601	1.2	25 TH	0340	1.2
	1406	0.5		1341	0.6
11 TH	0426	1.2	26 FR	0343	1.2
	1533	0.5		1441	0.5
12 FR	0316	1.2	27 SA	0345	1.3
	1658	0.4		1606	0.5
13 SA	0310	1.3	28 SU	0346	1.3
	1804	0.4		1715	0.5
14 SU	0324	1.3	29 MO	0341	1.3
	1856	0.4		1806	0.4
15 MO	0343	1.3	30 TU	0331	1.3
	1939	0.4		1849	0.4

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56030

PAPUA NEW GUINEA - MADANG (NAGADA HARBOUR)

LAT 5° 13´ S LONG 145° 48´ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

MAY

	Time	m		Time	m
1 WE	0324 1928	1.2 0.4	16 TH	0343 1051 1320 1951	1.2 0.9 0.9 0.6
2 TH	0328 2003	1.2 0.5	17 FR	0348 1055 1441 2010	1.2 0.8 0.9 0.7
3 FR	0340 0921 1316 2036	1.2 1.0 1.0 0.5	18 SA	0345 1107 1548 2023	1.2 0.8 0.9 0.8
4 SA	0354 0952 1441 2106	1.2 0.9 1.0 0.6	19 SU	0333 1122 1658 2026	1.2 0.7 0.9 0.9
5 SU	0408 1035 1609 2132	1.2 0.7 1.0 0.8	20 MO	0316 1141	1.2 0.7
6 MO	0421 1121 1801 2145	1.2 0.6 1.0 0.9	21 TU	0258 1202	1.2 0.6
7 TU	0429 1210	1.2 0.5	22 WE	0246 1228	1.2 0.5
8 WE	0425 1302	1.2 0.4	23 TH	0245 1257	1.3 0.5
9 TH	0343 1358	1.3 0.4	24 FR	0253 1333	1.3 0.4
10 FR	0238 1501	1.3 0.3	25 SA	0305 1419	1.3 0.4
11 SA	0223 1609	1.3 0.4	26 SU	0317 1517	1.3 0.4
12 SU	0234 1713	1.3 0.4	27 MO	0321 1620	1.3 0.4
13 MO	0252 1807	1.3 0.4	28 TU	0306 1717	1.3 0.4
14 TU	0311 1851	1.3 0.5	29 WE	0243 1806	1.3 0.5
15 WE	0328 1925	1.3 0.5	30 TH	0234 1847	1.3 0.5
			31 FR	0238 1923	1.3 0.6

JUNE

	Time	m		Time	m
1 SA	0248 0938 1418 1954	1.3 0.8 0.9 0.7	16 SU	0234 1048 1701 1913	1.2 0.7 0.9 0.9
2 SU	0300 1011 1626 2017	1.3 0.7 0.9 0.9	17 MO	0221 1100	1.2 0.6
3 MO	0312 1049	1.3 0.5	18 TU	0210 1118	1.2 0.5
4 TU	0321 1129	1.3 0.4	19 WE	0203 1141	1.2 0.4
5 WE	0324 1212	1.3 0.3	20 TH	0205 1207	1.3 0.4
6 TH	0310 1256	1.3 0.3	21 FR	0218 1238	1.3 0.3
7 FR	0217 1342	1.3 0.3	22 SA	0241 1315	1.3 0.3
8 SA	0151 1432	1.3 0.3	23 SU	0309 1356	1.3 0.3
9 SU	0158 1525	1.3 0.4	24 MO	0338 1444	1.3 0.3
10 MO	0216 1621	1.3 0.4	25 TU	0344 1537	1.3 0.4
11 TU	0234 1713	1.3 0.5	26 WE	0227 1632	1.2 0.5
12 WE	0248 1755	1.2 0.6	27 TH	0139 1725	1.2 0.6
13 TH	0258 1826	1.2 0.7	28 FR	0136 1814	1.2 0.7
14 FR	0258 1059 1349 1850	1.2 0.8 0.8 0.7	29 SA	0144 0912 1445 1854	1.2 0.8 0.9 0.8
15 SA	0249 1044 1536 1906	1.2 0.7 0.9 0.8	30 SU	0156 0935 1654 1928	1.2 0.6 0.9 0.9

JULY

	Time	m		Time	m
1 MO	0210 1008	1.2 0.5	16 TU	0119 1018	1.1 0.5
2 TU	0226 1044	1.3 0.4	17 WE	0121 1039	1.2 0.4
3 WE	0241 1121	1.3 0.3	18 TH	0132 1106	1.2 0.3
4 TH	0251 1200	1.3 0.2	19 FR	0154 1136	1.2 0.3
5 FR	0246 1238	1.3 0.2	20 SA	0224 1210	1.3 0.3
6 SA	0218 1318	1.3 0.3	21 SU	0300 1246	1.3 0.3
7 SU	0159 1358	1.2 0.3	22 MO	0338 1325	1.3 0.3
8 MO	0206 1436	1.2 0.4	23 TU	0414 1406	1.3 0.4
9 TU	0218 1513	1.2 0.5	24 WE	0439 1448	1.2 0.5
10 WE	0227 1546	1.2 0.6	25 TH	0021 1535	1.1 0.6
11 TH	0230 1618	1.2 0.7	26 FR	0016 1637	1.1 0.7
12 FR	0224 1649	1.1 0.8	27 SA	0027 0808 1544 1819	1.1 0.7 0.9 0.9
13 SA	0204 1009	1.1 0.7	28 SU	0044 0834 1649 1939	1.2 0.6 1.0 1.0
14 SU	0139 0957	1.1 0.6	29 MO	0106 0909 1734 2035	1.2 0.4 1.1 1.0
15 MO	0125 1003	1.1 0.6	30 TU	0131 0945 1819 2117	1.2 0.3 1.1 1.1
			31 WE	0159 1021 1913 2145	1.2 0.3 1.1 1.1

AUGUST

	Time	m		Time	m
1 TH	0226 1058 2029 2146	1.2 0.2 1.1 1.1	16 FR	0118 1024	1.2 0.3
2 FR	0248 1136	1.2 0.2	17 SA	0154 1057	1.2 0.3
3 SA	0300 1211	1.2 0.3	18 SU	0233 1131	1.3 0.3
4 SU	0300 1243	1.2 0.4	19 MO	0312 1206	1.3 0.3
5 MO	0251 1311	1.2 0.4	20 TU	0353 1241	1.2 0.4
6 TU	0241 1333	1.2 0.5	21 WE	0436 1315 2143	1.2 0.5 1.0
7 WE	0227 1345	1.1 0.6	22 TH	0118 0525 1344 2202	1.0 1.0 0.7 1.0
8 TH	0214 1339	1.1 0.7	23 FR	0516 0820 1347 2228	0.9 0.9 0.8 1.1
9 FR	0201 1236	1.0 0.8	24 SA	0626 1627 1817 2258	0.7 1.0 1.0 1.1
10 SA	0121 0907	1.0 0.7	25 SU	0711 1611 1948 2336	0.5 1.1 1.0 1.1
11 SU	0024 0849	1.0 0.6	26 MO	0752 1632 2043	0.4 1.1 1.0
12 MO	0002 0853 1744 1939	1.0 0.6 1.0 1.0	27 TU	0018 0832 1659 2124	1.1 0.3 1.2 1.0
13 TU	0002 0907 1746 1957	1.0 0.5 1.0 1.0	28 WE	0103 0910 1731 2152	1.1 0.3 1.2 1.0
14 WE	0017 0928	1.1 0.4	29 TH	0146 0948 1808 2212	1.1 0.3 1.1 1.0
15 TH	0044 0954	1.1 0.3	30 FR	0223 1025 1855 2223	1.2 0.3 1.1 1.0
			31 SA	0253 1058 1958 2224	1.1 0.4 1.1 1.0

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56030

PAPUA NEW GUINEA - MADANG (NAGADA HARBOUR)

LAT 5° 13′ S LONG 145° 48′ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

SEPTEMBER

	Time	m		Time	m
1 SU	0312 1.1 1128 0.4		**16** MO	0235 1.2 1042 0.4 1817 1.1 2206 1.0	
2 MO	0315 1.1 1151 0.5		**17** TU	0322 1.2 1115 0.5 1836 1.1 2303 0.9	
3 TU	0307 1.1 1207 0.6		**18** WE	0417 1.1 1146 0.6 1855 1.1	
4 WE	0259 1.0 1212 0.7		**19** TH	0013 0.8 0535 1.0 1209 0.8 1916 1.1	
5 TH	0236 1.0 1200 0.8 1857 0.9 2216 0.9		**20** FR	0144 0.7 0855 0.9 1155 0.9 1932 1.1	
6 FR	0141 0.9 0957 0.8 1716 1.0		**21** SA	0345 0.6 1616 1.1	
7 SA	0723 0.8 1704 1.0		**22** SU	0519 0.5 1528 1.2	
8 SU	0717 0.7 1654 1.1		**23** MO	0619 0.4 1535 1.2	
9 MO	0728 0.6 1644 1.1		**24** TU	0707 0.3 1554 1.3	
10 TU	0747 0.5 1642 1.1		**25** WE	0751 0.3 1617 1.2 2138 1.0	
11 WE	0810 0.4 1644 1.1		**26** TH	0038 1.1 0830 0.3 1643 1.2 2157 1.0	
12 TH	0836 0.4 1653 1.1 2101 1.1		**27** FR	0135 1.1 0907 0.4 1710 1.2 2213 1.0	
13 FR	0009 1.1 0905 0.3 1709 1.1 2046 1.1		**28** SA	0219 1.1 0939 0.4 1737 1.1 2230 0.9	
14 SA	0103 1.2 0936 0.3 1731 1.1 2054 1.0		**29** SU	0255 1.1 1006 0.5 1758 1.1 2249 0.9	
15 SU	0150 1.2 1009 0.3 1754 1.1 2123 1.0		**30** MO	0325 1.0 1026 0.6 1758 1.0 2309 0.9	

OCTOBER

	Time	m		Time	m
1 TU	0350 1.0 1037 0.7 1736 1.0 2332 0.9		**16** WE	0355 1.0 1012 0.7 1702 1.2 2330 0.7	
2 WE	0418 0.9 1036 0.8 1654 1.0		**17** TH	0533 1.0 1029 0.8 1709 1.2	
3 TH	0002 0.8 0529 0.9 1006 0.8 1613 1.0		**18** FR	0031 0.6 1702 1.2	
4 FR	0051 0.8 1601 1.1		**19** SA	0140 0.5 1556 1.2	
5 SA	0330 0.7 1559 1.1		**20** SU	0301 0.4 1458 1.3	
6 SU	0455 0.7 1558 1.2		**21** MO	0421 0.3 1447 1.3	
7 MO	0534 0.6 1557 1.2		**22** TU	0527 0.3 1459 1.3	
8 TU	0609 0.5 1556 1.2		**23** WE	0621 0.3 1517 1.3	
9 WE	0641 0.5 1555 1.2		**24** TH	0707 0.4 1538 1.3	
10 TH	0712 0.4 1555 1.2		**25** FR	0746 0.4 1558 1.2 2206 0.9	
11 FR	0742 0.4 1559 1.2		**26** SA	0118 1.0 0817 0.5 1616 1.2 2225 0.9	
12 SA	0813 0.4 1609 1.2 2101 1.0		**27** SU	0217 1.0 0842 0.6 1625 1.1 2247 0.8	
13 SU	0044 1.1 0845 0.4 1623 1.2 2117 1.0		**28** MO	0309 0.9 0900 0.7 1622 1.1 2309 0.8	
14 MO	0146 1.1 0916 0.5 1637 1.2 2151 0.9		**29** TU	0403 0.9 0907 0.8 1606 1.1 2333 0.7	
15 TU	0246 1.1 0945 0.6 1651 1.2 2236 0.8		**30** WE	0513 0.9 0858 0.8 1540 1.1 2358 0.7	
			31 TH	1513 1.1	

NOVEMBER

	Time	m		Time	m
1 FR	0025 0.6 1504 1.2		**16** SA	0032 0.3 1533 1.3	
2 SA	0057 0.6 1506 1.2		**17** SU	0127 0.3 1451 1.3	
3 SU	0137 0.5 1512 1.3		**18** MO	0227 0.2 1424 1.3	
4 MO	0232 0.5 1520 1.3		**19** TU	0332 0.3 1424 1.3	
5 TU	0344 0.5 1526 1.3		**20** WE	0436 0.3 1436 1.3	
6 WE	0446 0.4 1528 1.3		**21** TH	0532 0.4 1453 1.3	
7 TH	0534 0.4 1522 1.2		**22** FR	0619 0.4 1508 1.2	
8 FR	0615 0.4 1512 1.2		**23** SA	0654 0.5 1520 1.2 2238 0.8	
9 SA	0650 0.4 1509 1.2		**24** SU	0102 0.9 0719 0.6 1526 1.2 2243 0.8	
10 SU	0723 0.5 1514 1.2 2117 0.9		**25** MO	0239 0.8 0736 0.7 1520 1.2 2256 0.7	
11 MO	0030 1.0 0753 0.5 1523 1.2 2138 0.8		**26** TU	0359 0.8 0744 0.8 1507 1.1 2312 0.6	
12 TU	0207 1.0 0820 0.6 1533 1.2 2213 0.7		**27** WE	0531 0.9 0730 0.8 1450 1.2 2329 0.6	
13 WE	0343 0.9 0841 0.8 1542 1.2 2255 0.6		**28** TH	1433 1.2 2349 0.5	
14 TH	0553 0.9 0844 0.9 1549 1.3 2341 0.4		**29** FR	1424 1.2	
15 FR	1550 1.3		**30** SA	0013 0.4 1427 1.2	

DECEMBER

	Time	m		Time	m
1 SU	0040 0.4 1441 1.3		**16** MO	0109 0.2 1502 1.3	
2 MO	0113 0.4 1459 1.3		**17** TU	0158 0.2 1440 1.3	
3 TU	0152 0.3 1519 1.3		**18** WE	0248 0.2 1435 1.2	
4 WE	0241 0.3 1535 1.3		**19** TH	0339 0.3 1439 1.2	
5 TH	0336 0.4 1533 1.2		**20** FR	0428 0.4 1443 1.2	
6 FR	0430 0.4 1502 1.2		**21** SA	0510 0.5 1447 1.2	
7 SA	0517 0.4 1426 1.2		**22** SU	0541 0.6 1445 1.1 2258 0.7	
8 SU	0558 0.5 1417 1.2		**23** MO	0156 0.7 0605 0.7 1434 1.1 2235 0.7	
9 MO	0631 0.6 1420 1.2 2133 0.8		**24** TU	0406 0.8 0618 0.8 1417 1.1 2237 0.6	
10 TU	0125 0.8 0659 0.7 1429 1.2 2151 0.6		**25** WE	1405 1.1 2248 0.5	
11 WE	0407 0.8 0718 0.8 1439 1.2 2223 0.5		**26** TH	1358 1.2 2304 0.4	
12 TH	1451 1.3 2300 0.3		**27** FR	1356 1.2 2325 0.3	
13 FR	1502 1.3 2341 0.2		**28** SA	1405 1.2 2351 0.3	
14 SA	1510 1.3		**29** SU	1424 1.2	
15 SU	0024 0.2 1514 1.3		**30** MO	0019 0.3 1451 1.3	
			31 TU	0050 0.2 1523 1.3	

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56030

PAPUA NEW GUINEA - WEWAK

LAT 3° 33´ S LONG 143° 38´ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

JANUARY

	Time	m		Time	m
1 MO	0441	0.5	**16** TU	0457	0.5
	1300	1.3		1212	1.4
	1906	1.1		1823	0.9
	2136	1.1		2304	1.1
2 TU	0515	0.6	**17** WE	0545	0.6
	1317	1.3		1243	1.4
	1955	1.0		1928	0.8
	2251	1.0			
3 WE	0548	0.7	**18** TH	0055	1.1
	1332	1.3		0633	0.8
	2038	0.9		1315	1.4
				2028	0.6
4 TH	0046	1.0	**19** FR	0256	1.1
	0622	0.8		0726	0.9
	1348	1.3		1349	1.4
	2116	0.8		2123	0.5
5 FR	0241	1.0	**20** SA	0442	1.1
	0658	0.9		0824	1.0
	1404	1.3		1424	1.4
	2151	0.7		2214	0.4
6 SA	0417	1.0	**21** SU	0603	1.2
	0738	1.0		0928	1.1
	1423	1.3		1503	1.4
	2226	0.5		2303	0.3
7 SU	0541	1.1	**22** MO	0711	1.2
	0824	1.0		1035	1.1
	1446	1.3		1543	1.3
	2303	0.4		2348	0.3
8 MO	0653	1.1	**23** TU	0810	1.2
	0918	1.1		1144	1.2
	1514	1.3		1625	1.3
	2341	0.3			
9 TU	0755	1.2	**24** WE	0031	0.3
	1018	1.2		0901	1.3
	1547	1.4		1248	1.2
				1708	1.3
10 WE	0021	0.2	**25** TH	0111	0.3
	0847	1.2		0946	1.3
	1117	1.2		1342	1.2
	1630	1.4		1751	1.3
11 TH	0104	0.2	**26** FR	0150	0.3
	0931	1.3		1024	1.3
	1219	1.2		1432	1.2
	1721	1.4		1833	1.3
12 FR	0149	0.2	**27** SA	0227	0.4
	1008	1.3		1054	1.2
	1328	1.2		1521	1.1
	1819	1.4		1917	1.2
13 SA	0235	0.2	**28** SU	0300	0.4
	1041	1.3		1115	1.2
	1444	1.2		1611	1.1
	1921	1.4		2003	1.2
14 SU	0322	0.2	**29** MO	0331	0.5
	1112	1.3		1130	1.2
	1559	1.1		1702	1.0
	2024	1.3		2053	1.1
15 MO	0409	0.3	**30** TU	0401	0.6
	1142	1.4		1143	1.2
	1713	1.0		1752	1.0
	2135	1.2		2154	1.1
			31 WE	0431	0.7
				1157	1.3
				1838	0.9
				2313	1.0

FEBRUARY

	Time	m		Time	m
1 TH	0503	0.8	**16** FR	0132	1.1
	1212	1.3		0621	1.0
	1922	0.8		1219	1.4
				1947	0.5
2 FR	0050	1.0	**17** SA	0319	1.2
	0538	0.9		0724	1.0
	1228	1.3		1259	1.4
	2004	0.7		2043	0.4
3 SA	0237	1.0	**18** SU	0438	1.2
	0617	0.9		0829	1.1
	1250	1.3		1344	1.3
	2047	0.6		2136	0.4
4 SU	0407	1.1	**19** MO	0541	1.2
	0703	1.0		0936	1.1
	1316	1.3		1433	1.3
	2131	0.5		2228	0.4
5 MO	0522	1.1	**20** TU	0635	1.2
	0756	1.1		1042	1.1
	1351	1.3		1523	1.3
	2216	0.4		2318	0.4
6 TU	1433	1.3	**21** WE	0725	1.2
	2303	0.3		1141	1.1
				1613	1.3
7 WE	0716	1.2	**22** TH	0004	0.4
	1000	1.2		0810	1.2
	1523	1.4		1232	1.1
	2351	0.2		1702	1.3
8 TH	0758	1.2	**23** FR	0046	0.4
	1103	1.2		0847	1.2
	1620	1.4		1316	1.1
				1751	1.3
9 FR	0038	0.2	**24** SA	0123	0.5
	0835	1.3		0915	1.2
	1208	1.2		1358	1.1
	1724	1.4		1839	1.2
10 SA	0125	0.2	**25** SU	0156	0.6
	0907	1.3		0934	1.2
	1316	1.1		1438	1.0
	1831	1.4		1930	1.2
11 SU	0211	0.3	**26** MO	0227	0.6
	0937	1.3		0948	1.2
	1426	1.1		1520	1.0
	1938	1.3		2023	1.2
12 MO	0258	0.4	**27** TU	0255	0.7
	1006	1.3		0959	1.2
	1536	1.0		1604	0.9
	2050	1.3		2121	1.2
13 TU	0345	0.5	**28** WE	0324	0.8
	1037	1.4		1012	1.2
	1644	0.8		1648	0.8
	2211	1.2		2227	1.1
14 WE	0433	0.7	**29** TH	0357	0.9
	1109	1.4		1025	1.2
	1748	0.7		1732	0.8
	2344	1.1		2341	1.1
15 TH	0525	0.8			
	1143	1.4			
	1850	0.6			

MARCH

	Time	m		Time	m
1 FR	0434	0.9	**16** SA	0154	1.3
	1042	1.2		0631	1.1
	1815	0.7		1122	1.3
				1905	0.5
2 SA	0106	1.1	**17** SU	0307	1.3
	0517	1.0		0739	1.1
	1105	1.3		1212	1.3
	1900	0.6		1959	0.5
3 SU	0233	1.1	**18** MO	0406	1.3
	0607	1.1		0846	1.1
	1135	1.3		1309	1.3
	1947	0.5		2053	0.5
4 MO	0341	1.2	**19** TU	0456	1.3
	0702	1.1		0949	1.1
	1216	1.3		1410	1.3
	2037	0.5		2147	0.5
5 TU	0438	1.2	**20** WE	0541	1.3
	0803	1.2		1047	1.1
	1308	1.3		1511	1.2
	2130	0.4		2238	0.5
6 WE	0527	1.2	**21** TH	0624	1.3
	0905	1.2		1136	1.1
	1408	1.3		1609	1.2
	2223	0.4		2325	0.6
7 TH	0612	1.3	**22** FR	0701	1.3
	1008	1.2		1220	1.1
	1514	1.4		1706	1.2
	2315	0.4			
8 FR	0650	1.3	**23** SA	0008	0.7
	1109	1.1		0730	1.3
	1625	1.4		1257	1.0
				1802	1.2
9 SA	0006	0.4	**24** SU	0045	0.7
	0724	1.3		0749	1.3
	1211	1.1		1332	1.0
	1737	1.4		1858	1.2
10 SU	0055	0.4	**25** MO	0118	0.8
	0756	1.3		0803	1.2
	1312	1.0		1405	0.9
	1850	1.4		1956	1.2
11 MO	0143	0.6	**26** TU	0148	0.9
	0826	1.4		0813	1.2
	1413	0.9		1439	0.8
	2006	1.3		2054	1.2
12 TU	0231	0.7	**27** WE	0220	1.0
	0857	1.4		0824	1.3
	1514	0.7		1516	0.8
	2126	1.3		2154	1.2
13 WE	0322	0.8	**28** TH	0255	1.0
	0928	1.4		0838	1.3
	1614	0.6		1555	0.7
	2249	1.3		2257	1.2
14 TH	0418	1.0	**29** FR	0337	1.1
	1003	1.4		0855	1.3
	1713	0.5		1637	0.6
15 FR	0020	1.3	**30** SA	0007	1.2
	0522	1.1		0428	1.1
	1039	1.4		0919	1.3
	1809	0.5		1722	0.6
			31 SU	0118	1.3
				0525	1.2
				0949	1.3
				1810	0.5

APRIL

	Time	m		Time	m
1 MO	0217	1.3	**16** TU	0323	1.4
	0624	1.2		0855	1.2
	1031	1.3		1236	1.2
	1901	0.5		2008	0.6
2 TU	0306	1.3	**17** WE	0404	1.4
	0722	1.2		0952	1.1
	1127	1.3		1350	1.2
	1954	0.5		2058	0.6
3 WE	0350	1.3	**18** TH	0441	1.4
	0820	1.2		1042	1.1
	1240	1.3		1502	1.2
	2048	0.5		2146	0.7
4 TH	0429	1.4	**19** FR	0515	1.3
	0920	1.2		1124	1.0
	1402	1.3		1609	1.2
	2144	0.5		2232	0.8
5 FR	0508	1.4	**20** SA	0542	1.3
	1020	1.1		1200	1.0
	1524	1.3		1715	1.2
	2238	0.5		2314	0.9
6 SA	0543	1.4	**21** SU	0603	1.3
	1117	1.0		1233	0.9
	1644	1.3		1819	1.2
	2331	0.6		2353	0.9
7 SU	0616	1.4	**22** MO	0619	1.3
	1212	0.9		1304	0.8
	1802	1.3		1921	1.2
8 MO	0022	0.7	**23** TU	0030	1.0
	0647	1.4		0633	1.3
	1305	0.8		1333	0.7
	1923	1.3		2022	1.3
9 TU	0113	0.9	**24** WE	0109	1.1
	0719	1.4		0645	1.3
	1358	0.6		1405	0.6
	2043	1.4		2121	1.3
10 WE	0209	1.0	**25** TH	0151	1.2
	0751	1.4		0659	1.3
	1451	0.5		1439	0.6
	2201	1.4		2221	1.3
11 TH	0311	1.1	**26** FR	0241	1.2
	0825	1.4		0717	1.3
	1544	0.4		1517	0.5
	2321	1.4		2322	1.3
12 FR	0421	1.2	**27** SA	0340	1.3
	0901	1.4		0740	1.3
	1638	0.4		1600	0.5
13 SA	0040	1.4	**28** SU	0020	1.4
	0536	1.2		0444	1.3
	0941	1.4		0813	1.3
	1732	0.4		1647	0.5
14 SU	0145	1.4	**29** MO	0110	1.4
	0646	1.2		0544	1.3
	1028	1.3		0857	1.3
	1825	0.5		1736	0.5
15 MO	0238	1.4	**30** TU	0152	1.4
	0753	1.2		0639	1.3
	1125	1.3		0954	1.3
	1917	0.5		1828	0.5

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56070

PAPUA NEW GUINEA - WEWAK

LAT 3° 33′ S LONG 143° 38′ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

MAY

	Time	m		Time	m
1 WE	0229	1.4	**16** TH	0309	1.4
	0735	1.2		0938	1.1
	1105	1.3		1330	1.2
	1921	0.5		2006	0.7
2 TH	0304	1.4	**17** FR	0338	1.4
	0832	1.2		1021	1.0
	1238	1.3		1455	1.1
	2015	0.6		2048	0.8
3 FR	0337	1.4	**18** SA	0402	1.4
	0929	1.1		1058	0.9
	1417	1.3		1613	1.2
	2108	0.7		2129	0.9
4 SA	0411	1.5	**19** SU	0423	1.4
	1025	1.0		1131	0.8
	1550	1.3		1726	1.2
	2202	0.8		2211	1.0
5 SU	0444	1.5	**20** MO	0441	1.4
	1117	0.8		1202	0.7
	1716	1.3		1836	1.2
	2256	0.9		2254	1.1
6 MO	0517	1.5	**21** TU	0456	1.4
	1206	0.7		1231	0.6
	1840	1.3		1941	1.3
	2352	1.0		2339	1.2
7 TU	0549	1.5	**22** WE	0510	1.4
	1254	0.5		1302	0.6
	2002	1.4		2043	1.3
8 WE	0052	1.1	**23** TH	0031	1.2
	0622	1.5		0525	1.4
	1341	0.4		1335	0.5
	2117	1.4		2141	1.4
9 TH	0201	1.2	**24** FR	0128	1.3
	0657	1.5		0546	1.4
	1429	0.4		1412	0.4
	2230	1.4		2237	1.4
10 FR	0317	1.3	**25** SA	0236	1.3
	0734	1.4		0616	1.4
	1517	0.3		1453	0.4
	2337	1.5		2326	1.4
11 SA	0432	1.3	**26** SU	0345	1.3
	0813	1.4		0656	1.4
	1607	0.4		1537	0.4
12 SU	0033	1.5	**27** MO	0009	1.4
	0543	1.3		0444	1.3
	0856	1.3		0747	1.4
	1658	0.4		1625	0.4
13 MO	0121	1.5	**28** TU	0046	1.4
	0648	1.2		0539	1.3
	0945	1.3		0846	1.3
	1748	0.5		1715	0.5
14 TU	0203	1.4	**29** WE	0119	1.5
	0750	1.2		0634	1.2
	1043	1.2		0952	1.3
	1836	0.6		1805	0.5
15 WE	0238	1.4	**30** TH	0149	1.5
	0847	1.1		0732	1.2
	1201	1.2		1115	1.2
	1922	0.7		1855	0.6
			31 FR	0218	1.5
				0829	1.1
				1304	1.2
				1945	0.7

JUNE

	Time	m		Time	m
1 SA	0248	1.5	**16** SU	0250	1.4
	0926	0.9		1017	0.8
	1452	1.2		1617	1.1
	2036	0.8		2028	1.0
2 SU	0319	1.5	**17** MO	0307	1.4
	1018	0.8		1050	0.7
	1628	1.2		1735	1.2
	2131	1.0		2111	1.1
3 MO	0352	1.5	**18** TU	0323	1.4
	1107	0.6		1123	0.6
	1759	1.3		1847	1.2
	2228	1.1		2200	1.2
4 TU	0425	1.5	**19** WE	0340	1.4
	1154	0.5		1157	0.5
	1921	1.3		1952	1.3
	2332	1.2		2254	1.2
5 WE	0459	1.5	**20** TH	0400	1.4
	1239	0.4		1233	0.4
	2036	1.4		2051	1.3
				2351	1.3
6 TH	0045	1.3	**21** FR	0428	1.4
	0536	1.5		1310	0.4
	1324	0.3		2143	1.4
	2143	1.4			
7 FR	0206	1.3	**22** SA	0056	1.3
	0615	1.4		0505	1.4
	1409	0.3		1351	0.3
	2241	1.5		2227	1.4
8 SA	0322	1.3	**23** SU	0209	1.3
	0658	1.4		0554	1.4
	1455	0.3		1434	0.3
	2331	1.5		2304	1.4
9 SU	0430	1.3	**24** MO	0316	1.3
	0743	1.4		0653	1.4
	1542	0.4		1519	0.3
				2337	1.4
10 MO	0014	1.5	**25** TU	0418	1.3
	0532	1.3		0756	1.4
	0829	1.3		1607	0.4
	1628	0.5			
11 TU	0052	1.4	**26** WE	0007	1.5
	0630	1.2		0517	1.2
	0918	1.3		0900	1.3
	1713	0.5		1655	0.5
12 WE	0123	1.4	**27** TH	0035	1.5
	0725	1.2		0617	1.1
	1015	1.2		1013	1.3
	1754	0.6		1743	0.6
13 TH	0150	1.4	**28** FR	0102	1.5
	0815	1.1		0716	1.0
	1134	1.1		1153	1.2
	1833	0.7		1831	0.7
14 FR	0213	1.4	**29** SA	0130	1.5
	0901	1.0		0814	0.9
	1313	1.1		1346	1.2
	1911	0.8		1921	0.9
15 SA	0232	1.4	**30** SU	0200	1.5
	0940	0.9		0909	0.7
	1451	1.1		1535	1.2
	1948	0.9		2014	1.0

JULY

	Time	m		Time	m
1 MO	0232	1.5	**16** TU	0157	1.4
	1000	0.6		1002	0.6
	1711	1.2		1736	1.2
	2112	1.1		2029	1.2
2 TU	0306	1.5	**17** WE	0217	1.4
	1050	0.5		1041	0.5
	1832	1.3		1842	1.2
	2216	1.2		2123	1.2
3 WE	0343	1.5	**18** TH	0244	1.4
	1137	0.4		1121	0.4
	1943	1.4		1939	1.3
	2329	1.3		2220	1.3
4 TH	0422	1.5	**19** FR	0318	1.4
	1224	0.3		1202	0.4
	2046	1.4		2030	1.3
				2317	1.3
5 FR	0048	1.3	**20** SA	0401	1.4
	0505	1.4		1245	0.3
	1308	0.3		2112	1.4
	2141	1.4			
6 SA	0203	1.3	**21** SU	0020	1.3
	0551	1.4		0454	1.4
	1352	0.3		1329	0.3
	2228	1.4		2147	1.4
7 SU	0308	1.3	**22** MO	0130	1.3
	0639	1.4		0558	1.4
	1436	0.4		1413	0.3
	2308	1.4		2217	1.4
8 MO	0407	1.3	**23** TU	0241	1.3
	0727	1.3		0706	1.4
	1517	0.4		1459	0.4
	2343	1.4		2244	1.4
9 TU	0503	1.2	**24** WE	0347	1.2
	0815	1.3		0813	1.4
	1557	0.5		1545	0.5
				2312	1.4
10 WE	0010	1.4	**25** TH	0451	1.1
	0553	1.2		0926	1.3
	0907	1.2		1632	0.6
	1635	0.6		2339	1.5
11 TH	0033	1.4	**26** FR	0553	1.0
	0640	1.1		1054	1.2
	1009	1.2		1721	0.7
	1709	0.7			
12 FR	0050	1.4	**27** SA	0009	1.5
	0725	1.0		0652	0.8
	1130	1.1		1236	1.2
	1743	0.8		1812	0.9
13 SA	0106	1.4	**28** SU	0040	1.5
	0806	0.9		0747	0.7
	1309	1.1		1431	1.2
	1819	0.9		1909	1.0
14 SU	0122	1.4	**29** MO	0113	1.5
	0846	0.8		0842	0.6
	1452	1.1		1611	1.2
	1857	1.0		2009	1.1
15 MO	0139	1.4	**30** TU	0150	1.5
	0924	0.7		0936	0.5
	1620	1.1		1727	1.3
	1939	1.1		2113	1.2
			31 WE	0231	1.5
				1027	0.4
				1832	1.3
				2222	1.2

AUGUST

	Time	m		Time	m
1 TH	0316	1.4	**16** FR	0206	1.4
	1117	0.4		1042	0.4
	1930	1.4		1857	1.3
	2334	1.3		2207	1.3
2 FR	0403	1.4	**17** SA	0256	1.4
	1206	0.4		1129	0.4
	2023	1.4		1937	1.3
				2306	1.3
3 SA	0043	1.3	**18** SU	0354	1.4
	0453	1.4		1216	0.4
	1252	0.4		2012	1.4
	2111	1.4			
4 SU	0144	1.2	**19** MO	0006	1.3
	0543	1.3		0501	1.4
	1334	0.4		1302	0.4
	2151	1.4		2041	1.4
5 MO	0240	1.2	**20** TU	0111	1.2
	0634	1.3		0612	1.4
	1413	0.5		1347	0.4
	2223	1.4		2109	1.4
6 TU	0331	1.2	**21** WE	0215	1.1
	0725	1.3		0724	1.4
	1450	0.6		1432	0.5
	2247	1.4		2136	1.4
7 WE	0419	1.1	**22** TH	0319	1.0
	0818	1.2		0839	1.3
	1523	0.7		1520	0.7
	2305	1.3		2205	1.4
8 TH	0504	1.1	**23** FR	0421	0.9
	0917	1.2		1002	1.3
	1554	0.8		1610	0.8
	2320	1.3		2236	1.5
9 FR	0546	1.0	**24** SA	0522	0.7
	1025	1.2		1133	1.3
	1626	0.9		1706	1.0
	2334	1.3		2309	1.5
10 SA	0626	0.9	**25** SU	0619	0.6
	1144	1.1		1318	1.3
	1701	0.9		1809	1.1
	2349	1.3		2346	1.5
11 SU	0705	0.8	**26** MO	0715	0.5
	1318	1.1		1458	1.3
	1741	1.0		1916	1.2
12 MO	0007	1.3	**27** TU	0028	1.4
	0745	0.7		0810	0.5
	1455	1.1		1611	1.3
	1828	1.1		2023	1.2
13 TU	0026	1.3	**28** WE	0116	1.4
	0826	0.6		0905	0.4
	1612	1.2		1709	1.4
	1919	1.2		2129	1.2
14 WE	0052	1.3	**29** TH	0208	1.4
	0909	0.6		0959	0.4
	1715	1.2		1801	1.4
	2015	1.2		2235	1.2
15 TH	0125	1.4	**30** FR	0304	1.4
	0955	0.5		1052	0.5
	1809	1.3		1850	1.4
	2111	1.2		2336	1.2
			31 SA	0359	1.3
				1142	0.5
				1935	1.4

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56070

Papua New Guinea National Tide Tables 2024 NTM Edition 23 10 Nov 2023.

PAPUA NEW GUINEA - WEWAK

LAT 3° 33´ S LONG 143° 38´ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

SEPTEMBER

	Time	m		Time	m
1 SU	0031 1.2 0455 1.3 1228 0.5 2015 1.3		**16** MO	0402 1.4 1140 0.5 1858 1.4	
2 MO	0121 1.1 0549 1.3 1309 0.6 2046 1.3		**17** TU	0002 1.1 0517 1.4 1228 0.6 1926 1.4	
3 TU	0206 1.1 0645 1.3 1344 0.7 2108 1.3		**18** WE	0059 1.0 0634 1.4 1316 0.7 1955 1.4	
4 WE	0248 1.1 0741 1.3 1417 0.8 2124 1.3		**19** TH	0154 0.9 0753 1.4 1404 0.8 2024 1.4	
5 TH	0326 1.0 0840 1.2 1447 0.9 2136 1.3		**20** FR	0251 0.8 0914 1.4 1456 0.9 2055 1.5	
6 FR	0406 0.9 0942 1.2 1517 0.9 2148 1.3		**21** SA	0349 0.6 1037 1.4 1557 1.1 2128 1.5	
7 SA	0444 0.8 1049 1.2 1553 1.0 2201 1.3		**22** SU	0447 0.5 1208 1.4 1708 1.2 2206 1.4	
8 SU	0524 0.8 1204 1.2 1637 1.1 2217 1.3		**23** MO	0543 0.5 1338 1.4 1823 1.2 2251 1.4	
9 MO	0605 0.7 1331 1.2 1730 1.2 2238 1.3		**24** TU	0639 0.5 1448 1.4 1934 1.2 2344 1.4	
10 TU	0647 0.6 1446 1.2 1829 1.2 2308 1.3		**25** WE	0734 0.5 1543 1.4 2041 1.2	
11 WE	0731 0.6 1544 1.3 1928 1.2 2348 1.3		**26** TH	0047 1.3 0829 0.5 1631 1.4 2144 1.2	
12 TH	0818 0.5 1632 1.3 2023 1.2		**27** FR	0154 1.3 0924 0.5 1715 1.4 2242 1.1	
13 FR	0040 1.3 0909 0.5 1714 1.3 2117 1.2		**28** SA	0300 1.3 1017 0.6 1756 1.4 2333 1.1	
14 SA	0142 1.4 1000 0.5 1753 1.4 2211 1.2		**29** SU	0404 1.3 1107 0.7 1832 1.4	
15 SU	0249 1.4 1051 0.5 1827 1.4 2307 1.2		**30** MO	0018 1.1 0505 1.3 1152 0.7 1902 1.4	

OCTOBER

	Time	m		Time	m
1 TU	0058 1.0 0607 1.3 1231 0.8 1924 1.3		**16** WE	0546 1.3 1151 0.8 1816 1.5	
2 WE	0132 1.0 0708 1.3 1307 0.9 1938 1.3		**17** TH	0045 0.7 0707 1.3 1243 0.9 1846 1.5	
3 TH	0205 0.9 0808 1.3 1339 1.0 1948 1.3		**18** FR	0135 0.6 0828 1.4 1339 1.1 1918 1.5	
4 FR	0237 0.8 0907 1.3 1413 1.1 1958 1.3		**19** SA	0225 0.5 0946 1.4 1441 1.2 1951 1.5	
5 SA	0311 0.7 1007 1.3 1451 1.1 2009 1.3		**20** SU	0318 0.4 1106 1.4 1557 1.2 2028 1.4	
6 SU	0347 0.7 1113 1.3 1539 1.2 2024 1.3		**21** MO	0413 0.4 1224 1.4 1717 1.3 2109 1.4	
7 MO	0427 0.6 1224 1.3 1641 1.2 2043 1.3		**22** TU	0508 0.4 1328 1.5 1833 1.3 2158 1.3	
8 TU	0509 0.6 1329 1.3 1748 1.3 2109 1.3		**23** WE	0602 0.4 1420 1.5 1944 1.2 2258 1.3	
9 WE	0555 0.6 1422 1.3 1850 1.3 2148 1.3		**24** TH	0656 0.5 1505 1.4 2051 1.2	
10 TH	0643 0.5 1504 1.4 1944 1.3 2245 1.3		**25** FR	0015 1.2 0749 0.6 1544 1.4 2148 1.1	
11 FR	0732 0.5 1540 1.4 2035 1.2		**26** SA	0137 1.2 0839 0.6 1621 1.4 2238 1.0	
12 SA	0001 1.3 0824 0.5 1614 1.4 2126 1.2		**27** SU	0256 1.2 0928 0.7 1652 1.4 2321 1.0	
13 SU	0132 1.3 0917 0.6 1646 1.4 2218 1.1		**28** MO	0410 1.2 1014 0.8 1720 1.4 2358 0.9	
14 MO	0300 1.3 1009 0.6 1717 1.4 2308 1.0		**29** TU	0520 1.2 1058 0.9 1741 1.4	
15 TU	0424 1.3 1100 0.7 1746 1.5 2357 0.9		**30** WE	0030 0.8 0628 1.2 1139 1.0 1757 1.3	
			31 TH	0059 0.7 0733 1.2 1219 1.1 1809 1.3	

NOVEMBER

	Time	m		Time	m
1 FR	0128 0.7 0834 1.3 1259 1.1 1820 1.3		**16** SA	0116 0.3 0901 1.4 1320 1.2 1823 1.5	
2 SA	0158 0.6 0933 1.3 1344 1.2 1829 1.3		**17** SU	0203 0.3 1013 1.4 1436 1.3 1901 1.5	
3 SU	0229 0.5 1032 1.3 1437 1.3 1840 1.3		**18** MO	0253 0.2 1119 1.4 1555 1.3 1942 1.4	
4 MO	0305 0.5 1132 1.3 1541 1.3 1855 1.3		**19** TU	0343 0.3 1215 1.4 1712 1.3 2027 1.4	
5 TU	0345 0.5 1225 1.4 1651 1.3 1920 1.3		**20** WE	0435 0.3 1304 1.4 1824 1.2 2117 1.3	
6 WE	0428 0.5 1310 1.4 1755 1.3 1957 1.3		**21** TH	0526 0.4 1346 1.4 1936 1.2 2215 1.2	
7 TH	0515 0.5 1348 1.4		**22** FR	0615 0.5 1422 1.4 2041 1.1 2334 1.1	
8 FR	0603 0.5 1420 1.4 1944 1.2 2209 1.2		**23** SA	0702 0.6 1453 1.4 2135 1.0	
9 SA	0652 0.5 1448 1.4 2036 1.2 2345 1.2		**24** SU	0113 1.1 0744 0.7 1521 1.4 2219 0.9	
10 SU	0742 0.6 1517 1.4 2126 1.1		**25** MO	0251 1.1 0826 0.8 1544 1.4 2256 0.8	
11 MO	0142 1.2 0833 0.7 1545 1.5 2213 0.9		**26** TU	0416 1.1 0907 0.9 1604 1.4 2327 0.7	
12 TU	0325 1.2 0926 0.8 1615 1.5 2300 0.8		**27** WE	0536 1.1 0949 1.0 1623 1.4 2357 0.6	
13 WE	0456 1.2 1019 0.9 1645 1.5 2345 0.6		**28** TH	0649 1.2 1033 1.1 1637 1.3	
14 TH	0624 1.3 1115 1.0 1716 1.5		**29** FR	0026 0.5 0755 1.2 1120 1.2 1650 1.3	
15 FR	0031 0.5 0746 1.3 1214 1.1 1748 1.5		**30** SA	0055 0.5 0856 1.3 1210 1.2 1703 1.3	

DECEMBER

	Time	m		Time	m
1 SU	0127 0.4 0952 1.3 1304 1.3 1719 1.3		**16** MO	0146 0.2 1020 1.4 1422 1.3 1830 1.4	
2 MO	0201 0.4 1042 1.3 1405 1.3 1743 1.3		**17** TU	0232 0.2 1109 1.4 1535 1.3 1916 1.4	
3 TU	0239 0.3 1127 1.3 1509 1.3 1817 1.3		**18** WE	0319 0.2 1153 1.4 1644 1.2 2004 1.3	
4 WE	0319 0.3 1205 1.4 1613 1.3 1901 1.3		**19** TH	0406 0.3 1231 1.4 1753 1.2 2053 1.2	
5 TH	0402 0.4 1238 1.4 1716 1.3 1954 1.3		**20** FR	0449 0.4 1304 1.4 1901 1.1 2147 1.1	
6 FR	0446 0.4 1305 1.4		**21** SA	0530 0.5 1330 1.4 2003 1.0 2302 1.1	
7 SA	0532 0.5 1330 1.4 1918 1.1 2215 1.2		**22** SU	0608 0.6 1354 1.4 2053 0.9	
8 SU	0617 0.5 1355 1.4 2015 1.0		**23** MO	0049 1.0 0643 0.7 1414 1.4 2136 0.8	
9 MO	0004 1.1 0704 0.6 1421 1.4 2107 0.9		**24** TU	0241 1.0 0719 0.9 1432 1.3 2211 0.7	
10 TU	0211 1.1 0753 0.8 1449 1.5 2157 0.7		**25** WE	0418 1.0 0756 0.9 1450 1.3 2244 0.6	
11 WE	0400 1.1 0845 0.9 1519 1.5 2243 0.5		**26** TH	0546 1.1 0839 1.0 1507 1.3 2317 0.5	
12 TH	0537 1.2 0942 1.0 1552 1.5 2329 0.4		**27** FR	0700 1.1 0928 1.1 1526 1.3 2350 0.4	
13 FR	0702 1.2 1044 1.1 1626 1.5		**28** SA	0806 1.2 1022 1.2 1547 1.3	
14 SA	0014 0.3 0817 1.3 1151 1.2 1703 1.5		**29** SU	0024 0.3 1615 1.3	
15 SU	0100 0.2 0923 1.3 1306 1.3 1745 1.4		**30** MO	0101 0.3 0945 1.3 1209 1.2 1649 1.3	
			31 TU	0138 0.3 1023 1.3 1305 1.3 1732 1.3	

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56070

PAPUA NEW GUINEA - SEEADLER HARBOUR (LOMBRUM BAY)

LAT 2° 02′ S LONG 147° 23′ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

JANUARY

	Time	m		Time	m
1 MO	0431	0.5	**16** TU	0443	0.5
	1448	1.1		1251	1.1
2 TU	0506	0.5	**17** WE	0538	0.6
	1431	1.1		1300	1.1
				2039	0.7
3 WE	0534	0.6	**18** TH	0205	0.8
	1415	1.1		0630	0.7
	2220	0.7		1317	1.1
				2105	0.5
4 TH	0137	0.7	**19** FR	0426	0.9
	0555	0.7		0715	0.8
	1402	1.1		1339	1.2
	2205	0.6		2138	0.4
5 FR	0341	0.8	**20** SA	0559	0.9
	0601	0.7		0746	0.9
	1352	1.1		1401	1.2
	2213	0.5		2214	0.3
6 SA	1345	1.1	**21** SU	1423	1.2
	2229	0.4		2249	0.2
7 SU	1345	1.1	**22** MO	1443	1.2
	2252	0.3		2326	0.2
8 MO	1355	1.2	**23** TU	1456	1.2
	2320	0.3			
9 TU	1413	1.2	**24** WE	0001	0.2
	2355	0.2		1458	1.1
10 WE	1440	1.3	**25** TH	0038	0.3
				1445	1.1
11 TH	0033	0.2	**26** FR	0114	0.3
	1515	1.3		1443	1.1
12 FR	0116	0.2	**27** SA	0147	0.4
	1551	1.3		1447	1.1
13 SA	0203	0.2	**28** SU	0218	0.4
	1623	1.2		1449	1.1
14 SU	0253	0.3	**29** MO	0246	0.5
	1620	1.1		1445	1.1
15 MO	0346	0.4	**30** TU	0310	0.6
	1311	1.1		1424	1.0
			31 WE	0327	0.7
				1340	1.0
				2135	0.7

FEBRUARY

	Time	m		Time	m
1 TH	0136	0.7	**16** FR	0349	0.9
	0241	0.7		0720	0.9
	1310	1.0		1224	1.1
	2105	0.6		2024	0.4
2 FR	1251	1.0	**17** SA	0437	1.0
	2106	0.5		0813	0.9
				1259	1.1
				2101	0.3
3 SA	1244	1.0	**18** SU	0520	1.0
	2119	0.4		0853	1.0
				1333	1.1
				2138	0.3
4 SU	1251	1.1	**19** MO	0606	1.0
	2140	0.4		0921	1.0
				1406	1.1
				2214	0.3
5 MO	1310	1.1	**20** TU	0704	1.0
	2207	0.3		0929	1.0
				1434	1.1
				2249	0.3
6 TU	1337	1.2	**21** WE	1455	1.1
	2241	0.2		2323	0.3
7 WE	1411	1.2	**22** TH	1505	1.1
	2318	0.2		2354	0.4
8 TH	1448	1.3	**23** FR	1502	1.1
	2359	0.2			
9 FR	1529	1.3	**24** SA	0021	0.5
				1457	1.1
10 SA	0041	0.2	**25** SU	0041	0.5
	1609	1.2		1450	1.0
11 SU	0124	0.3	**26** MO	0053	0.6
	1647	1.1		1434	1.0
12 MO	0211	0.4	**27** TU	0056	0.7
	1103	1.0		1411	0.9
	1258	1.0			
	1704	1.0			
13 TU	0304	0.6	**28** WE	0035	0.8
	1103	1.0		1215	0.9
	1844	0.8		1952	0.7
	2128	0.8			
14 WE	0431	0.7	**29** TH	0513	0.9
	1124	1.0		0633	0.9
	1909	0.7		1045	0.9
				1936	0.6
15 TH	0220	0.9			
	0612	0.8			
	1152	1.1			
	1946	0.5			

MARCH

	Time	m		Time	m
1 FR	0430	0.9	**16** SA	0338	1.1
	0742	0.9		0811	1.0
	1013	0.9		1113	1.0
	1944	0.6		1938	0.3
2 SA	0434	1.0	**17** SU	0406	1.1
	0805	0.9		0852	1.0
	1016	0.9		1210	1.0
	2000	0.5		2017	0.3
3 SU	0444	1.0	**18** MO	0435	1.1
	0800	1.0		0924	1.0
	1058	1.0		1302	1.0
	2021	0.4		2055	0.3
4 MO	0455	1.0	**19** TU	0506	1.1
	0752	1.0		0947	0.9
	1146	1.0		1346	1.0
	2048	0.3		2130	0.3
5 TU	0513	1.0	**20** WE	0541	1.0
	0745	1.0		1002	0.9
	1235	1.1		1422	1.0
	2121	0.3		2200	0.4
6 WE	0540	1.0	**21** TH	0621	1.0
	0748	1.0		1003	0.9
	1321	1.2		1449	1.0
	2157	0.3		2227	0.5
7 TH	0614	1.0	**22** FR	0708	0.9
	0808	1.0		0958	0.9
	1405	1.2		1510	1.0
	2235	0.3		2248	0.5
8 FR	0649	1.0	**23** SA	0755	0.9
	0844	1.0		1000	0.9
	1450	1.2		1525	1.0
	2314	0.3		2302	0.6
9 SA	0719	1.0	**24** SU	0803	0.9
	0939	0.9		1023	0.9
	1537	1.2		1539	0.9
	2352	0.4		2309	0.7
10 SU	0745	0.9	**25** MO	0700	0.9
	1050	0.9		1116	0.8
	1630	1.1		1553	0.9
				2300	0.8
11 MO	0028	0.6	**26** TU	0440	0.9
	0808	1.0		1243	0.8
	1217	0.8		1349	0.8
	1748	1.0		1650	0.8
12 TU	0100	0.7	**27** WE	0405	1.0
	0833	1.0		1659	0.7
	1445	0.8			
	2132	0.9			
13 WE	0109	0.8	**28** TH	0349	1.0
	0901	1.0		1725	0.6
	1703	0.6			
14 TH	0256	1.0	**29** FR	0343	1.1
	0550	0.9		1754	0.5
	0936	1.0			
	1806	0.5			
15 FR	0311	1.1	**30** SA	0346	1.1
	0715	1.0		1823	0.5
	1019	1.0			
	1855	0.4			
			31 SU	0354	1.1
				1854	0.4

APRIL

	Time	m		Time	m
1 MO	0359	1.1	**16** TU	0355	1.1
	1927	0.3		0948	0.9
				1215	0.9
				2007	0.4
2 TU	0401	1.1	**17** WE	0416	1.1
	0840	1.0		1007	0.9
	1015	1.0		1317	0.9
	2000	0.3		2038	0.4
3 WE	0413	1.1	**18** TH	0437	1.1
	0815	1.0		1030	0.9
	1155	1.1		1407	0.9
	2036	0.3		2102	0.5
4 TH	0430	1.1	**19** FR	0453	1.0
	0825	1.0		1055	0.9
	1302	1.1		1452	0.9
	2113	0.3		2120	0.6
5 FR	0449	1.1	**20** SA	0500	1.0
	0856	0.9		1122	0.8
	1401	1.1		1542	0.9
	2147	0.4		2132	0.7
6 SA	0510	1.0	**21** SU	0446	1.0
	0942	0.9		1153	0.8
	1500	1.1		1650	0.9
	2221	0.5		2132	0.8
7 SU	0529	1.0	**22** MO	0410	1.0
	1041	0.8		1228	0.7
	1610	1.0		1908	0.8
	2250	0.7		2049	0.8
8 MO	0544	1.0	**23** TU	0330	1.0
	1149	0.7		1306	0.6
	1801	0.9			
	2306	0.8			
9 TU	0554	1.0	**24** WE	0309	1.1
	1310	0.6		1349	0.6
10 WE	0558	1.1	**25** TH	0301	1.1
	1440	0.5		1438	0.5
11 TH	0300	1.1	**26** FR	0302	1.1
	1601	0.4		1531	0.5
12 FR	0239	1.2	**27** SA	0309	1.2
	1707	0.3		1624	0.4
13 SA	0250	1.2	**28** SU	0319	1.2
	1802	0.3		1714	0.4
14 SU	0311	1.2	**29** MO	0326	1.2
	1849	0.3		1759	0.3
15 MO	0332	1.2	**30** TU	0320	1.2
	0952	1.0		1839	0.3
	1040	1.0			
	1931	0.3			

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56130

PAPUA NEW GUINEA - SEEADLER HARBOUR (LOMBRUM BAY)

LAT 2° 02′ S LONG 147° 23′ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

MAY

	Time	m		Time	m
1 WE	0315	1.1	16 TH	0330	1.1
	1917	0.3		1031	0.8
				1244	0.8
				1943	0.5
2 TH	0321	1.1	17 FR	0338	1.1
	0833	1.0		1045	0.8
	1115	1.0		1409	0.8
	1954	0.4		2001	0.6
3 FR	0332	1.1	18 SA	0340	1.1
	0856	0.9		1105	0.7
	1257	1.0		1526	0.8
	2028	0.5		2013	0.7
4 SA	0345	1.1	19 SU	0333	1.0
	0938	0.8		1130	0.7
	1425	0.9		1655	0.8
	2058	0.6		2010	0.8
5 SU	0359	1.1	20 MO	0315	1.0
	1029	0.7		1154	0.6
	1600	0.9			
	2120	0.7			
6 MO	0411	1.1	21 TU	0250	1.1
	1125	0.6		1220	0.5
	1823	0.9			
	2121	0.8			
7 TU	0419	1.1	22 WE	0231	1.1
	1221	0.5		1248	0.4
8 WE	0421	1.1	23 TH	0223	1.1
	1319	0.4		1321	0.4
9 TH	0331	1.2	24 FR	0228	1.2
	1417	0.3		1359	0.3
10 FR	0212	1.2	25 SA	0242	1.2
	1516	0.3		1443	0.3
11 SA	0212	1.2	26 SU	0259	1.2
	1615	0.2		1533	0.3
12 SU	0227	1.2	27 MO	0312	1.2
	1711	0.3		1626	0.3
13 MO	0245	1.2	28 TU	0306	1.2
	1801	0.3		1715	0.3
14 TU	0303	1.2	29 WE	0236	1.1
	1843	0.4		1801	0.3
15 WE	0318	1.1	30 TH	0226	1.1
	1917	0.4		1841	0.4
			31 FR	0229	1.1
				0859	0.9
				1119	0.9
				1916	0.5

JUNE

	Time	m		Time	m
1 SA	0238	1.1	16 SU	0235	1.0
	0927	0.7		1038	0.6
	1356	0.8		1631	0.8
	1945	0.6		1909	0.8
2 SU	0251	1.1	17 MO	0226	1.1
	1008	0.6		1059	0.5
	1605	0.8			
	2005	0.7			
3 MO	0304	1.2	18 TU	0214	1.1
	1052	0.5		1122	0.4
	1843	0.9			
	1942	0.9			
4 TU	0315	1.2	19 WE	0202	1.1
	1136	0.4		1148	0.3
5 WE	0324	1.2	20 TH	0159	1.1
	1221	0.3		1218	0.3
6 TH	0322	1.2	21 FR	0205	1.2
	1307	0.2		1252	0.2
7 FR	0215	1.2	22 SA	0226	1.2
	1354	0.2		1330	0.2
8 SA	0147	1.2	23 SU	0254	1.2
	1444	0.2		1414	0.2
9 SU	0156	1.2	24 MO	0322	1.2
	1535	0.2		1501	0.2
10 MO	0212	1.2	25 TU	0330	1.2
	1628	0.3		1552	0.3
11 TU	0227	1.1	26 WE	0231	1.1
	1715	0.4		1644	0.3
12 WE	0237	1.1	27 TH	0132	1.1
	1757	0.4		1731	0.4
13 TH	0241	1.1	28 FR	0128	1.1
	1828	0.5		1815	0.5
14 FR	0242	1.1	29 SA	0135	1.1
	1024	0.7		0851	0.7
	1254	0.8		1341	0.8
	1851	0.6		1852	0.6
15 SA	0241	1.1	30 SU	0149	1.1
	1023	0.7		0924	0.5
	1451	0.8		1609	0.8
	1906	0.7		1921	0.8

JULY

	Time	m		Time	m
1 MO	0206	1.1	16 TU	0130	1.0
	1002	0.4		1010	0.4
	1816	0.9			
	1925	0.9			
2 TU	0224	1.2	17 WE	0129	1.1
	1042	0.3		1036	0.3
3 WE	0241	1.2	18 TH	0134	1.1
	1123	0.2		1106	0.2
4 TH	0256	1.2	19 FR	0150	1.1
	1204	0.1		1141	0.2
5 FR	0302	1.1	20 SA	0214	1.2
	1247	0.1		1218	0.2
6 SA	0229	1.1	21 SU	0245	1.2
	1330	0.2		1259	0.2
7 SU	0154	1.1	22 MO	0322	1.2
	1415	0.2		1342	0.2
8 MO	0157	1.1	23 TU	0354	1.1
	1500	0.3		1429	0.3
9 TU	0205	1.1	24 WE	0348	1.1
	1547	0.4		1520	0.4
10 WE	0210	1.1	25 TH	0025	1.0
	1633	0.5		1617	0.5
11 TH	0205	1.0	26 FR	0014	1.0
	1715	0.5		0725	0.8
				1007	0.8
				1720	0.6
12 FR	0156	1.0	27 SA	0024	1.1
	0953	0.7		0744	0.6
	1120	0.7		1341	0.8
	1749	0.6		1822	0.7
13 SA	0148	1.0	28 SU	0042	1.1
	0924	0.6		0818	0.5
	1417	0.7		1549	0.9
	1816	0.7		1915	0.8
14 SU	0141	1.0	29 MO	0105	1.1
	0932	0.5		0857	0.3
	1612	0.8		1701	0.9
	1835	0.8		1959	0.9
15 MO	0134	1.0	30 TU	0131	1.1
	0949	0.5		0936	0.2
	1757	0.8		1806	1.0
	1824	0.8		2031	0.9
			31 WE	0159	1.1
				1016	0.2
				1923	1.0
				2045	1.0

AUGUST

	Time	m		Time	m
1 TH	0225	1.1	16 FR	0117	1.1
	1057	0.2		1018	0.2
2 FR	0248	1.1	17 SA	0147	1.1
	1138	0.2		1056	0.2
3 SA	0302	1.1	18 SU	0222	1.2
	1219	0.2		1135	0.2
4 SU	0253	1.1	19 MO	0300	1.2
	1300	0.3		1216	0.3
5 MO	0213	1.1	20 TU	0340	1.1
	1338	0.4		1258	0.3
6 TU	0155	1.0	21 WE	0424	1.0
	1416	0.4		1342	0.5
				2211	0.9
7 WE	0148	1.0	22 TH	0134	0.9
	1454	0.5		0537	0.9
				1434	0.6
				2221	1.0
8 TH	0136	1.0	23 FR	0531	0.7
	1539	0.6		1000	0.8
				1611	0.7
				2244	1.0
9 FR	0111	1.0	24 SA	0617	0.6
	0830	0.7		1347	0.9
	1052	0.7		1759	0.8
	1655	0.7		2313	1.0
10 SA	0051	0.9	25 SU	0700	0.4
	0808	0.6		1514	0.9
	1521	0.8		1906	0.9
	1806	0.8		2347	1.0
11 SU	0037	0.9	26 MO	0741	0.3
	0815	0.5		1559	1.0
	1604	0.8		1957	0.9
	1851	0.8			
12 MO	0030	0.9	27 TU	0025	1.1
	0831	0.5		0821	0.2
	1636	0.9		1637	1.0
	1920	0.9		2037	0.9
13 TU	0028	1.0	28 WE	0104	1.1
	0852	0.4		0901	0.2
	1708	0.9		1716	1.0
	1935	0.9		2107	0.9
14 WE	0035	1.0	29 TH	0142	1.1
	0916	0.3		0942	0.2
	1748	0.9		1800	1.0
	1935	0.9		2128	0.9
15 TH	0053	1.0	30 FR	0216	1.1
	0945	0.2		1021	0.2
				1900	1.0
				2133	0.9
			31 SA	0244	1.1
				1059	0.3

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56130

PAPUA NEW GUINEA - SEEADLER HARBOUR (LOMBRUM BAY)

LAT 2° 02′ S LONG 147° 23′ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

SEPTEMBER

	Time	m		Time	m
1 SU	0301	1.0	**16** MO	0224	1.1
	1135	0.4		1045	0.3
				1836	0.9
				2135	0.9
2 MO	0300	1.0	**17** TU	0311	1.1
	1206	0.5		1121	0.4
				1901	0.9
				2244	0.8
3 TU	0216	1.0	**18** WE	0411	1.0
	1230	0.5		1157	0.6
				1924	0.9
4 WE	0128	0.9	**19** TH	0014	0.8
	1242	0.6		0557	0.9
				1228	0.7
				1948	0.9
5 TH	0059	0.9	**20** FR	0237	0.7
	1236	0.7		0954	0.9
	2339	0.9		1237	0.8
				2014	1.0
6 FR	0641	0.7	**21** SA	0420	0.5
	1602	0.8		1430	1.0
	1822	0.8		1733	1.0
	2245	0.8		2049	1.0
7 SA	0636	0.6	**22** SU	0523	0.4
	1531	0.9		1440	1.1
	1947	0.8		1857	1.0
	2215	0.9		2139	1.0
8 SU	0649	0.5	**23** MO	0614	0.3
	1535	0.9		1505	1.1
	2055	0.9		1948	1.0
	2143	0.9		2238	1.0
9 MO	0708	0.5	**24** TU	0700	0.2
	1548	1.0		1532	1.1
				2025	1.0
				2339	1.0
10 TU	0730	0.4	**25** WE	0743	0.2
	1602	1.0		1600	1.1
	2038	0.9		2055	0.9
	2243	0.9			
11 WE	0755	0.3	**26** TH	0036	1.0
	1618	1.0		0822	0.2
	2021	0.9		1629	1.1
	2331	1.0		2121	0.9
12 TH	0823	0.3	**27** FR	0125	1.0
	1638	1.0		0900	0.3
	2011	1.0		1700	1.0
				2145	0.9
13 FR	0016	1.0	**28** SA	0206	1.0
	0855	0.3		0934	0.4
	1704	1.0		1732	1.0
	2009	1.0		2207	0.9
14 SA	0059	1.1	**29** SU	0240	1.0
	0930	0.2		1004	0.5
	1734	1.0		1807	0.9
	2018	0.9		2229	0.9
15 SU	0141	1.1	**30** MO	0310	0.9
	1007	0.3		1027	0.5
	1807	1.0		1835	0.9
	2047	0.9		2257	0.8

OCTOBER

	Time	m		Time	m
1 TU	0339	0.9	**16** WE	0354	0.9
	1040	0.6		1014	0.7
	1840	0.9		1703	1.0
	2355	0.8		2333	0.6
2 WE	0428	0.8	**17** TH	0611	0.9
	1041	0.7		1028	0.8
	1728	0.9		1713	1.1
3 TH	0230	0.8	**18** FR	0050	0.5
	0847	0.8		1715	1.1
	0935	0.8			
	1550	0.9			
4 FR	0345	0.7	**19** SA	0211	0.4
	1516	1.0		1456	1.1
5 SA	0421	0.6	**20** SU	0325	0.3
	1502	1.0		1418	1.2
6 SU	0454	0.5	**21** MO	0430	0.3
	1502	1.1		1426	1.2
7 MO	0525	0.5	**22** TU	0526	0.2
	1510	1.1		1444	1.2
8 TU	0557	0.4	**23** WE	0616	0.2
	1520	1.1		1505	1.2
				2110	1.0
				2220	1.0
9 WE	0629	0.4	**24** TH	0700	0.3
	1529	1.1		1526	1.1
				2116	0.9
				2355	0.9
10 TH	0700	0.3	**25** FR	0739	0.3
	1536	1.1		1546	1.1
				2141	0.9
11 FR	0733	0.3	**26** SA	0101	0.9
	1547	1.1		0812	0.4
	2025	1.0		1605	1.1
	2329	1.0		2211	0.8
12 SA	0807	0.3	**27** SU	0158	0.9
	1602	1.1		0838	0.5
	2029	0.9		1621	1.0
				2245	0.8
13 SU	0036	1.0	**28** MO	0252	0.9
	0841	0.3		0856	0.6
	1619	1.1		1627	1.0
	2052	0.9		2320	0.7
14 MO	0135	1.0	**29** TU	0356	0.8
	0915	0.4		0903	0.7
	1636	1.0		1615	1.0
	2133	0.8		2358	0.7
15 TU	0237	1.0	**30** WE	0538	0.8
	0946	0.5		0849	0.8
	1651	1.0		1544	1.0
	2228	0.8			
			31 TH	0033	0.6
				1500	1.0

NOVEMBER

	Time	m		Time	m
1 FR	0110	0.6	**16** SA	0049	0.3
	1438	1.1		1542	1.2
2 SA	0149	0.5	**17** SU	0145	0.2
	1430	1.1		1418	1.2
3 SU	0230	0.4	**18** MO	0244	0.2
	1434	1.2		1406	1.2
4 MO	0315	0.4	**19** TU	0342	0.2
	1444	1.2		1415	1.2
5 TU	0402	0.4	**20** WE	0439	0.2
	1456	1.2		1429	1.2
6 WE	0448	0.3	**21** TH	0530	0.3
	1505	1.2		1444	1.2
7 TH	0530	0.3	**22** FR	0615	0.4
	1504	1.2		1457	1.1
8 FR	0610	0.3	**23** SA	0651	0.4
	1459	1.1		1508	1.1
				2212	0.8
9 SA	0646	0.4	**24** SU	0040	0.8
	1500	1.1		0718	0.5
	2054	1.0		1515	1.1
	2218	1.0		2230	0.7
10 SU	0720	0.4	**25** MO	0213	0.8
	1508	1.1		0735	0.6
	2057	0.9		1517	1.1
				2253	0.7
11 MO	0023	0.9	**26** TU	0343	0.8
	0751	0.5		0741	0.7
	1517	1.1		1512	1.1
	2129	0.8		2317	0.6
12 TU	0200	0.9	**27** WE	0543	0.8
	0818	0.6		0714	0.8
	1529	1.1		1456	1.1
	2212	0.7		2342	0.5
13 WE	0345	0.9	**28** TH	1431	1.1
	0838	0.7			
	1538	1.1			
	2301	0.5			
14 TH	0622	0.9	**29** FR	0008	0.5
	0828	0.9		1413	1.1
	1546	1.2			
	2354	0.4			
15 FR	1552	1.2	**30** SA	0036	0.4
				1406	1.2

DECEMBER

	Time	m		Time	m
1 SU	0107	0.3	**16** MO	0123	0.1
	1414	1.2		1443	1.2
2 MO	0142	0.3	**17** TU	0213	0.2
	1432	1.2		1422	1.2
3 TU	0222	0.3	**18** WE	0303	0.2
	1454	1.2		1423	1.2
4 WE	0307	0.3	**19** TH	0356	0.3
	1513	1.2		1428	1.2
5 TH	0355	0.3	**20** FR	0445	0.4
	1518	1.2		1431	1.1
6 FR	0442	0.3	**21** SA	0528	0.5
	1447	1.2		1430	1.1
7 SA	0525	0.4	**22** SU	0601	0.6
	1417	1.1		1429	1.1
				2215	0.7
8 SU	0602	0.4	**23** MO	0110	0.7
	1412	1.1		0623	0.6
				1427	1.1
				2215	0.6
9 MO	0636	0.5	**24** TU	0318	0.8
	1415	1.1		0632	0.7
	2124	0.7		1422	1.1
				2228	0.6
10 TU	0125	0.8	**25** WE	1414	1.1
	0702	0.6		2246	0.5
	1424	1.2			
	2150	0.6			
11 WE	0352	0.8	**26** TH	1403	1.1
	0716	0.8		2309	0.4
	1436	1.2			
	2227	0.5			
12 TH	1448	1.2	**27** FR	1355	1.1
	2307	0.3		2334	0.3
13 FR	1501	1.2	**28** SA	1354	1.2
	2350	0.2			
14 SA	1514	1.2	**29** SU	0002	0.3
				1404	1.2
15 SU	0035	0.2	**30** MO	0033	0.3
	1517	1.2		1427	1.2
			31 TU	0108	0.2
				1457	1.2

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56130

PAPUA NEW GUINEA - RARA ISLAND SOUTHWEST

LAT 2° 01´ S LONG 147° 17´ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

JANUARY

	Time	m		Time	m
1 MO	1418	1.0	**16** TU	0516 1332 1906 2148	0.3 0.9 0.8 0.8
2 TU	0438 1411	0.4 1.0	**17** WE	0610 1330 1952	0.4 0.9 0.6
3 WE	0447 1352 2159	0.5 0.9 0.5	**18** TH	0028 0655 1336 2036	0.7 0.5 0.9 0.5
4 TH	0155 0423 1331 2152	0.5 0.5 0.9 0.4	**19** FR	0303 0725 1343 2119	0.7 0.7 0.9 0.3
5 FR	1314 2159	1.0 0.3	**20** SA	1350 2202	1.0 0.2
6 SA	1309 2216	1.0 0.3	**21** SU	1359 2243	1.1 0.1
7 SU	1320 2239	1.0 0.2	**22** MO	1413 2324	1.1 0.1
8 MO	1342 2309	1.0 0.2	**23** TU	1427	1.1
9 TU	1412 2345	1.1 0.2	**24** WE	0003 1436	0.1 1.1
10 WE	1448	1.1	**25** TH	0042 1435	0.1 1.1
11 TH	0028 1527	0.1 1.1	**26** FR	0118 1430	0.1 1.0
12 FR	0118 1610	0.1 1.1	**27** SA	0152 1416	0.2 1.0
13 SA	0213 1655	0.1 1.0	**28** SU	0221 1342	0.3 1.0
14 SU	0314 1741	0.2 1.0	**29** MO	0246 1328	0.4 0.9
15 MO	0416 1424 1806 1906	0.2 0.9 0.9 0.9	**30** TU	0303 1315	0.4 0.9
			31 WE	0254 1241 2045	0.5 0.9 0.5

FEBRUARY

	Time	m		Time	m
1 TH	1207 2035	0.9 0.4	**16** FR	0230 0704 1225 2005	0.8 0.7 0.9 0.3
2 FR	1149 2042	0.9 0.3	**17** SA	0419 0736 1242 2049	0.8 0.8 1.0 0.2
3 SA	1153 2059	0.9 0.3	**18** SU	0623 0726 1301 2131	0.9 0.9 1.0 0.1
4 SU	1216 2123	1.0 0.2	**19** MO	1323 2211	1.0 0.1
5 MO	1249 2154	1.0 0.2	**20** TU	1345 2249	1.1 0.1
6 TU	1329 2231	1.0 0.2	**21** WE	1404 2324	1.0 0.1
7 WE	1412 2313	1.0 0.2	**22** TH	1414 2356	1.0 0.2
8 TH	1457	1.1	**23** FR	1410	1.0
9 FR	0000 1542	0.2 1.1	**24** SA	0023 1352	0.3 0.9
10 SA	0053 1630	0.2 1.1	**25** SU	0044 1229	0.4 0.8
11 SU	0152 1723	0.2 1.0	**26** MO	0057 1203	0.5 0.8
12 MO	0257 1842	0.3 0.9	**27** TU	0035 1126 1934	0.5 0.8 0.6
13 TU	0409 1158 1642 2110	0.4 0.8 0.7 0.8	**28** WE	0956 1902	0.8 0.5
14 WE	0518 1157 1824	0.5 0.8 0.6	**29** TH	0908 1858	0.8 0.4
15 TH	0000 0617 1209 1919	0.8 0.6 0.9 0.4			

MARCH

	Time	m		Time	m
1 FR	0904 1909	0.8 0.4	**16** SA	0319 0724 1104 1926	0.9 0.8 0.9 0.2
2 SA	0938 1930	0.9 0.3	**17** SU	0418 0801 1138 2010	0.9 0.9 1.0 0.1
3 SU	0445 0637 1035 1959	0.8 0.8 0.9 0.3	**18** MO	0512 0831 1212 2051	0.9 0.9 1.0 0.1
4 MO	0426 0722 1134 2034	0.9 0.8 0.9 0.2	**19** TU	0608 0855 1246 2128	0.9 0.9 1.0 0.1
5 TU	0435 0743 1229 2112	0.9 0.8 0.9 0.2	**20** WE	0705 0917 1316 2201	0.9 0.9 0.9 0.2
6 WE	0502 0753 1320 2155	0.8 0.8 1.0 0.2	**21** TH	0755 0956 1341 2229	0.9 0.9 0.9 0.3
7 TH	0540 0803 1409 2241	0.8 0.8 1.0 0.2	**22** FR	0827 1101 1356 2249	0.8 0.8 0.8 0.4
8 FR	0626 0822 1456 2331	0.8 0.8 1.0 0.3	**23** SA	0841 1234 1340 2300	0.8 0.8 0.8 0.4
9 SA	0718 0851 1547	0.7 0.7 1.0	**24** SU	0813 2245	0.8 0.5
10 SU	0023 0807 0943 1645	0.3 0.7 0.7 1.0	**25** MO	0703 1728 1937 2131	0.7 0.6 0.6 0.6
11 MO	0122 0844 1121 1814	0.4 0.7 0.7 0.9	**26** TU	0503 1639	0.8 0.5
12 TU	0235 0912 1357 2046	0.5 0.7 0.6 0.8	**27** WE	0436 1634	0.8 0.5
13 WE	0413 0938 1620 2344	0.6 0.8 0.5 0.8	**28** TH	0434 1650	0.9 0.4
14 TH	0537 1004 1741	0.7 0.8 0.4	**29** FR	0421 1718	0.9 0.3
15 FR	0206 0638 1033 1837	0.9 0.8 0.9 0.2	**30** SA	0337 1751	0.9 0.3
			31 SU	0321 1828	0.9 0.3

APRIL

	Time	m		Time	m
1 MO	0314 1908	0.9 0.2	**16** TU	0420 0922 1111 2000	1.0 0.9 0.9 0.2
2 TU	0321 0804 1101 1951	0.9 0.8 0.9 0.2	**17** WE	0445 1005 1159 2031	0.9 0.8 0.8 0.2
3 WE	0343 0800 1209 2036	0.9 0.8 0.9 0.2	**18** TH	0505 1052 1245 2055	0.9 0.8 0.8 0.3
4 TH	0412 0803 1305 2122	0.9 0.8 0.9 0.3	**19** FR	0516 1139 1338 2110	0.9 0.7 0.7 0.4
5 FR	0444 0818 1359 2208	0.8 0.7 1.0 0.3	**20** SA	0513 1220 1459 2107	0.8 0.6 0.6 0.5
6 SA	0515 0852 1455 2254	0.8 0.7 1.0 0.4	**21** SU	0451 1252 1737 2016	0.8 0.6 0.6 0.6
7 SU	0541 0950 1604 2339	0.7 0.6 0.9 0.5	**22** MO	0400 1318	0.8 0.5
8 MO	0602 1113 1754	0.7 0.6 0.8	**23** TU	0328 1344	0.9 0.4
9 TU	0023 0617 1251 2030	0.6 0.8 0.5 0.8	**24** WE	0320 1413	0.9 0.3
10 WE	0109 0633 1430	0.7 0.8 0.4	**25** TH	0322 1447	1.0 0.3
11 TH	0129 0504 0653 1555	0.9 0.8 0.8 0.3	**26** FR	0319 1525	1.0 0.3
12 FR	0214 0649 0726 1700	0.9 0.9 0.9 0.2	**27** SA	0253 1608	1.0 0.2
13 SA	0250 0733 0825 1754	1.0 0.9 0.9 0.1	**28** SU	0236 1654	1.0 0.2
14 SU	0323 0807 0925 1841	1.0 0.9 0.9 0.1	**29** MO	0232 1741	1.0 0.2
15 MO	0353 0842 1020 1923	1.0 0.9 0.9 0.1	**30** TU	0236 1829	1.0 0.2

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56 134

PAPUA NEW GUINEA - RARA ISLAND SOUTHWEST

LAT 2° 01´ S LONG 147° 17´ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

MAY

	Time	m		Time	m
1 WE	0252 H 1.0 0757 L 0.8 1029 H 0.9 1917 L 0.2		**16** TH	0344 H 1.0 1918 L 0.3	
2 TH	0315 H 0.9 0753 L 0.8 1145 H 0.9 2004 L 0.3		**17** FR	0348 H 1.0 1121 L 0.6 1303 H 0.6 1928 L 0.4	
3 FR	0339 H 0.9 0810 L 0.7 1250 H 0.9 2048 L 0.3		**18** SA	0342 H 0.9 1133 L 0.5 1526 H 0.6 1912 L 0.5	
4 SA	0358 H 0.8 0847 L 0.7 1359 H 0.9 2128 L 0.4		**19** SU	0324 H 0.9 1149 L 0.4	
5 SU	0410 H 0.8 0943 L 0.6 1528 H 0.8 2157 L 0.6		**20** MO	0254 H 0.9 1206 L 0.4	
6 MO	0413 H 0.8 1053 L 0.5 1746 H 0.8 2202 L 0.7		**21** TU	0234 H 1.0 1226 L 0.3	
7 TU	0413 H 0.9 1206 L 0.4		**22** WE	0231 H 1.0 1250 L 0.3	
8 WE	0414 H 0.9 1317 L 0.3		**23** TH	0237 H 1.0 1320 L 0.2	
9 TH	0404 H 1.0 1424 L 0.2		**24** FR	0246 H 1.1 1355 L 0.2	
10 FR	0316 H 1.0 1526 L 0.1		**25** SA	0247 H 1.0 1437 L 0.2	
11 SA	0303 H 1.1 1621 L 0.1		**26** SU	0225 H 1.0 1526 L 0.2	
12 SU	0304 H 1.1 1710 L 0.1		**27** MO	0214 H 1.0 1618 L 0.2	
13 MO	0310 H 1.1 1753 L 0.1		**28** TU	0217 H 1.0 1712 L 0.2	
14 TU	0321 H 1.0 1829 L 0.2		**29** WE	0224 H 1.0 1804 L 0.2	
15 WE	0333 H 1.0 1858 L 0.2		**30** TH	0237 H 0.9 0744 L 0.8 1003 H 0.9 1853 L 0.3	
			31 FR	0251 H 0.9 0803 L 0.8 1132 H 0.8 1937 L 0.4	

JUNE

	Time	m		Time	m
1 SA	0303 H 0.9 0842 L 0.7 1304 H 0.8 2013 L 0.5		**16** SU	0219 H 1.0 1046 L 0.4	
2 SU	0311 H 0.9 0932 L 0.5 1509 H 0.7 2029 L 0.6		**17** MO	0157 H 1.0 1059 L 0.3	
3 MO	0310 H 0.9 1027 L 0.4 1745 H 0.7 1949 L 0.7		**18** TU	0144 H 1.0 1116 L 0.2	
4 TU	0309 H 1.0 1123 L 0.3		**19** WE	0146 H 1.0 1138 L 0.2	
5 WE	0314 H 1.0 1218 L 0.2		**20** TH	0200 H 1.1 1205 L 0.2	
6 TH	0324 H 1.1 1311 L 0.1		**21** FR	0221 H 1.1 1238 L 0.2	
7 FR	0330 H 1.1 1403 L 0.0		**22** SA	0247 H 1.1 1318 L 0.2	
8 SA	0323 H 1.1 1454 L 0.0		**23** SU	0315 H 1.0 1406 L 0.2	
9 SU	0313 H 1.1 1541 L 0.1		**24** MO	0342 H 1.0 1500 L 0.2	
10 MO	0259 H 1.1 1623 L 0.1		**25** TU	0349 H 1.0 1558 L 0.2	
11 TU	0244 H 1.1 1659 L 0.2		**26** WE	0245 H 1.0 1655 L 0.2	
12 WE	0242 H 1.0 1726 L 0.3		**27** TH	0220 H 0.9 1750 L 0.3	
13 TH	0244 H 1.0 1745 L 0.4		**28** FR	0210 H 0.9 0737 L 0.8 1013 H 0.8 1839 L 0.4	
14 FR	0244 H 1.0 1056 L 0.6 1207 H 0.6 1752 L 0.4		**29** SA	0212 H 0.9 0816 L 0.7 1222 H 0.7 1918 L 0.5	
15 SA	0235 H 1.0 1038 L 0.5 1521 H 0.5 1715 L 0.5		**30** SU	0216 H 0.9 0901 L 0.5 1455 H 0.7 1936 L 0.6	

JULY

	Time	m		Time	m
1 MO	0218 H 0.9 0947 L 0.4		**16** TU	0045 H 1.0 1003 L 0.2	
2 TU	0219 H 1.0 1034 L 0.2		**17** WE	0055 H 1.0 1025 L 0.2	
3 WE	0227 H 1.1 1120 L 0.1		**18** TH	0119 H 1.0 1052 L 0.2	
4 TH	0242 H 1.1 1206 L 0.0		**19** FR	0151 H 1.0 1124 L 0.2	
5 FR	0259 H 1.2 1250 L 0.0		**20** SA	0229 H 1.0 1203 L 0.2	
6 SA	0311 H 1.2 1334 L 0.0		**21** SU	0311 H 1.0 1249 L 0.2	
7 SU	0310 H 1.1 1416 L 0.1		**22** MO	0355 H 1.0 1342 L 0.2	
8 MO	0256 H 1.1 1455 L 0.1		**23** TU	0441 H 1.0 1441 L 0.2	
9 TU	0225 H 1.0 1529 L 0.2		**24** WE	0531 H 1.0 1545 L 0.3	
10 WE	0158 H 1.0 1555 L 0.3		**25** TH	0647 H 0.9 1650 L 0.3	
11 TH	0150 H 1.0 1613 L 0.4		**26** FR	0120 H 0.8 0614 L 0.8 0913 H 0.8 1749 L 0.4	
12 FR	0143 H 0.9 1003 L 0.5 1128 H 0.5 1614 L 0.5		**27** SA	0105 H 0.9 0714 L 0.6 1156 H 0.7 1839 L 0.5	
13 SA	0128 H 0.9 0932 L 0.4		**28** SU	0109 H 0.9 0802 L 0.5 1431 H 0.7 1915 L 0.7	
14 SU	0109 H 0.9 0936 L 0.4		**29** MO	0116 H 0.9 0848 L 0.3 1701 H 0.8 1910 L 0.8	
15 MO	0051 H 0.9 0947 L 0.3		**30** TU	0124 H 1.0 0932 L 0.2	
			31 WE	0138 H 1.1 1016 L 0.1	

AUGUST

	Time	m		Time	m
1 TH	0157 H 1.1 1058 L 0.1		**16** FR	0108 H 1.0 1007 L 0.2	
2 FR	0219 H 1.1 1139 L 0.0		**17** SA	0154 H 1.0 1046 L 0.2	
3 SA	0239 H 1.1 1218 L 0.1		**18** SU	0239 H 1.0 1131 L 0.2	
4 SU	0250 H 1.1 1254 L 0.1		**19** MO	0325 H 1.0 1221 L 0.2	
5 MO	0241 H 1.0 1327 L 0.2		**20** TU	0413 H 1.0 1318 L 0.3	
6 TU	0210 H 1.0 1354 L 0.3		**21** WE	0507 H 1.0 1423 L 0.3	
7 WE	0104 H 0.9 1414 L 0.4		**22** TH	0624 H 0.9 1538 L 0.4 2312 H 0.7	
8 TH	0044 H 0.9 1420 L 0.5		**23** FR	0251 H 0.7 0843 L 0.8 1657 H 0.5 2316 L 0.8	
9 FR	0028 H 0.9 0827 L 0.5 2355 H 0.8		**24** SA	0529 H 0.6 1129 L 0.8 1802 H 0.6 2331 L 0.8	
10 SA	0809 H 0.5 2325 L 0.9		**25** SU	0638 H 0.4 1404 L 0.8 1852 H 0.7 2348 L 0.9	
11 SU	0813 H 0.4 2309 L 0.9		**26** MO	0731 H 0.3 1549 L 0.9 1927 H 0.8	
12 MO	0824 H 0.3 2315 L 0.9		**27** TU	0008 H 1.0 0818 L 0.2 1727 H 0.9 1935 L 0.9	
13 TU	0841 H 0.3 2343 L 0.9		**28** WE	0033 H 1.0 0903 L 0.1	
14 WE	0904 H 0.2		**29** TH	0101 H 1.1 0945 L 0.1	
15 TH	0023 H 0.9 0933 L 0.2		**30** FR	0130 H 1.1 1024 L 0.1	
			31 SA	0158 H 1.0 1100 L 0.1	

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56134

PAPUA NEW GUINEA - RARA ISLAND SOUTHWEST

LAT 2° 01´ S LONG 147° 17´ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

SEPTEMBER

	Time	m		Time	m
1 SU	0219 1.0 1132 0.2		**16** MO	0238 1.0 1058 0.3 1820 0.7 2059 0.7	
2 MO	0223 0.9 1155 0.3		**17** TU	0329 1.0 1149 0.4 1903 0.7 2146 0.7	
3 TU	0139 0.8 1212 0.4 2255 0.8		**18** WE	0429 1.0 1244 0.4 1941 0.7 2306 0.6	
4 WE	1213 0.5 2231 0.8		**19** TH	0556 0.9 1353 0.5 2013 0.7	
5 TH	1058 0.6 2122 0.8		**20** FR	0111 0.6 0822 0.8 1537 0.6 2041 0.7	
6 FR	0627 0.5 1953 0.8		**21** SA	0320 0.5 1117 0.8 1721 0.7 2109 0.8	
7 SA	0624 0.4 1759 0.8		**22** SU	0455 0.4 1353 0.9 1825 0.8 2142 0.9	
8 SU	0631 0.4 1755 0.9		**23** MO	0600 0.2 1503 0.9 1909 0.9 2219 0.9	
9 MO	0646 0.3 1650 0.9		**24** TU	0653 0.1 1559 1.0 1943 0.9 2300 1.0	
10 TU	0707 0.3 1622 0.9		**25** WE	0741 0.1 1648 1.0 2012 0.9 2342 1.0	
11 WE	0735 0.3 1610 0.9 1959 0.8 2251 0.9		**26** TH	0824 0.1 1733 0.9 2040 0.9	
12 TH	0808 0.3 1611 0.9 2006 0.8		**27** FR	0023 1.0 0903 0.1 1810 0.9 2116 0.9	
13 FR	0002 0.9 0845 0.3 1629 0.8 2013 0.8		**28** SA	0102 0.9 0937 0.2 1838 0.9 2211 0.8	
14 SA	0059 0.9 0926 0.3 1700 0.8 2019 0.8		**29** SU	0137 0.9 1004 0.3 1853 0.8 2324 0.8	
15 SU	0150 1.0 1011 0.3 1737 0.8 2032 0.7		**30** MO	0208 0.8 1022 0.4 1854 0.8	

OCTOBER

	Time	m		Time	m
1 TU	0058 0.7 0230 0.7 1026 0.5 1832 0.8		**16** WE	0346 0.9 1101 0.5 1712 0.7 2254 0.5	
2 WE	0336 0.6 0532 0.6 0941 0.6 1732 0.8		**17** TH	0535 0.8 1139 0.6 1719 0.8	
3 TH	0331 0.5 1613 0.8		**18** FR	0021 0.5 0805 0.8 1153 0.8 1725 0.8	
4 FR	0346 0.4 1554 0.9		**19** SA	0150 0.4 1708 0.9	
5 SA	0402 0.4 1553 0.9		**20** SU	0313 0.2 1428 1.0	
6 SU	0423 0.3 1546 1.0		**21** MO	0423 0.1 1451 1.0	
7 MO	0450 0.3 1522 1.0		**22** TU	0521 0.1 1518 1.0	
8 TU	0523 0.3 1510 1.0		**23** WE	0612 0.1 1541 1.0 2023 0.9 2140 0.9	
9 WE	0559 0.3 1503 0.9		**24** TH	0657 0.1 1602 1.0 2101 0.9 2241 0.9	
10 TH	0638 0.3 1503 0.9 2031 0.8 2210 0.8		**25** FR	0736 0.1 1620 1.0 2148 0.8 2338 0.8	
11 FR	0720 0.3 1518 0.9 2008 0.8 2339 0.8		**26** SA	0807 0.2 1634 0.9 2239 0.7	
12 SA	0804 0.3 1542 0.9 2010 0.8		**27** SU	0038 0.8 0830 0.3 1642 0.9 2328 0.7	
13 SU	0041 0.9 0849 0.3 1610 0.8 2022 0.7		**28** MO	0154 0.7 0841 0.4 1640 0.9	
14 MO	0137 0.9 0934 0.3 1637 0.8 2051 0.7		**29** TU	0011 0.6 0358 0.6 0828 0.5 1621 0.9	
15 TU	0235 0.9 1019 0.4 1658 0.8 2141 0.6		**30** WE	0046 0.5 1537 0.9	
			31 TH	0113 0.4 1504 0.9	

NOVEMBER

	Time	m		Time	m
1 FR	0137 0.3 1454 1.0		**16** SA	0046 0.2 1559 1.0	
2 SA	0200 0.3 1454 1.0		**17** SU	0151 0.1 1555 1.1	
3 SU	0228 0.3 1456 1.0		**18** MO	0253 0.1 1535 1.1	
4 MO	0301 0.2 1443 1.0		**19** TU	0351 0.0 1523 1.1	
5 TU	0340 0.2 1429 1.0		**20** WE	0443 0.0 1512 1.1	
6 WE	0423 0.2 1424 1.0		**21** TH	0528 0.1 1509 1.1	
7 TH	0509 0.2 1424 1.0		**22** FR	0606 0.2 1514 1.0	
8 FR	0557 0.3 1433 1.0 2015 0.8 2134 0.8		**23** SA	0635 0.2 1520 1.0	
9 SA	0645 0.3 1452 0.9 1953 0.8 2311 0.8		**24** SU	0655 0.3 1524 1.0 2256 0.6	
10 SU	0731 0.3 1513 0.9 2007 0.7		**25** MO	0131 0.6 0700 0.4 1520 1.0 2316 0.5	
11 MO	0023 0.8 0815 0.4 1531 0.8 2039 0.7		**26** TU	0411 0.6 0624 0.5 1506 1.0 2338 0.4	
12 TU	0136 0.8 0854 0.4 1542 0.8 2129 0.6		**27** WE	1438 1.0 2358 0.3	
13 WE	0307 0.8 0923 0.6 1544 0.8 2231 0.5		**28** TH	1415 1.0	
14 TH	0522 0.8 0926 0.7 1545 0.9 2339 0.3		**29** FR	0018 0.2 1408 1.0	
15 FR	1551 1.0		**30** SA	0040 0.2 1413 1.1	

DECEMBER

	Time	m		Time	m
1 SU	0105 0.2 1425 1.1		**16** MO	0136 0.0 1547 1.2	
2 MO	0135 0.2 1434 1.1		**17** TU	0227 0.0 1542 1.1	
3 TU	0212 0.2 1428 1.0		**18** WE	0316 0.0 1518 1.1	
4 WE	0257 0.2 1414 1.0		**19** TH	0359 0.1 1440 1.1	
5 TH	0347 0.2 1414 1.0		**20** FR	0436 0.2 1422 1.0	
6 FR	0440 0.2 1417 1.0		**21** SA	0505 0.3 1420 1.0	
7 SA	0533 0.3 1422 0.9 1946 0.8 2110 0.8		**22** SU	0523 0.4 1419 1.0 2209 0.5	
8 SU	0622 0.3 1432 0.9 1949 0.8 2258 0.8		**23** MO	0056 0.5 0525 0.5 1413 1.0 2214 0.4	
9 MO	0708 0.4 1442 0.9 2024 0.7		**24** TU	1401 1.0 2229 0.3	
10 TU	0036 0.8 0745 0.5 1448 0.9 2110 0.5		**25** WE	1341 1.0 2246 0.3	
11 WE	0242 0.7 0803 0.6 1447 0.9 2202 0.4		**26** TH	1326 1.0 2305 0.2	
12 TH	0511 0.7 0733 0.7 1447 1.0 2256 0.3		**27** FR	1325 1.0 2326 0.2	
13 FR	1457 1.0 2350 0.2		**28** SA	1337 1.1 2351 0.2	
14 SA	1514 1.1		**29** SU	1400 1.1	
15 SU	0043 0.1 1533 1.2		**30** MO	0021 0.2 1429 1.0	
			31 TU	0056 0.2 1503 1.0	

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56134

PAPUA NEW GUINEA - HAWEI ISLAND NORTHEAST

LAT 1° 58´ S LONG 147° 18´ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000 YEAR 2024

JANUARY

	Time	m		Time	m
1 MO	1419	1.0	**16** TU	0517 1335 1910 2147	0.3 0.9 0.8 0.8
2 TU	0438 1414	0.4 1.0	**17** WE	0613 1334 1953	0.4 0.9 0.6
3 WE	0445 1358 2205	0.5 0.9 0.5	**18** TH	0032 0659 1339 2036	0.7 0.5 0.9 0.5
4 TH	0221 0426 1329 2156	0.5 0.5 0.9 0.4	**19** FR	0302 0730 1344 2119	0.7 0.7 0.9 0.3
5 FR	1311 2202	1.0 0.3	**20** SA	1350 2202	1.0 0.2
6 SA	1308 2218	1.0 0.3	**21** SU	1400 2244	1.0 0.1
7 SU	1319 2241	1.0 0.2	**22** MO	1413 2326	1.1 0.1
8 MO	1341 2310	1.0 0.2	**23** TU	1428	1.1
9 TU	1412 2345	1.1 0.2	**24** WE	0006 1438	0.1 1.1
10 WE	1448	1.1	**25** TH	0045 1438	0.1 1.1
11 TH	0027 1528	0.1 1.1	**26** FR	0121 1430	0.1 1.0
12 FR	0116 1610	0.1 1.1	**27** SA	0154 1412	0.2 1.0
13 SA	0211 1654	0.2 1.0	**28** SU	0221 1347	0.3 1.0
14 SU	0312 1736	0.2 1.0	**29** MO	0243 1331	0.4 0.9
15 MO	0416 1428	0.2 0.9	**30** TU	0255 1317	0.4 0.9
			31 WE	0242 1248 2050	0.5 0.9 0.5

FEBRUARY

	Time	m		Time	m
1 TH	1202 2039	0.9 0.4	**16** FR	0227 0707 1225 2005	0.8 0.7 0.9 0.3
2 FR	1144 2045	0.9 0.3	**17** SA	0412 0740 1241 2050	0.8 0.8 1.0 0.2
3 SA	1151 2102	0.9 0.3	**18** SU	0628 0733 1301 2132	0.9 0.9 1.0 0.1
4 SU	1214 2126	1.0 0.2	**19** MO	1324 2213	1.0 0.1
5 MO	1248 2156	1.0 0.2	**20** TU	1347 2251	1.1 0.1
6 TU	1328 2231	1.0 0.2	**21** WE	1406 2327	1.0 0.1
7 WE	1412 2312	1.0 0.2	**22** TH	1416 2358	1.0 0.2
8 TH	1457 2358	1.1 0.2	**23** FR	1412	1.0
9 FR	1542	1.1	**24** SA	0023 1348	0.3 0.9
10 SA	0051 1628	0.2 1.0	**25** SU	0041 1239	0.4 0.8
11 SU	0150 1720	0.2 1.0	**26** MO	0047 1207	0.4 0.8
12 MO	0257 1834	0.3 0.9	**27** TU	0026 1132 1940	0.5 0.8 0.6
13 TU	0410 1204 1641 2109	0.4 0.8 0.7 0.8	**28** WE	0948 1909	0.8 0.5
14 WE	0521 1202 1823	0.5 0.8 0.6	**29** TH	0911 1904	0.8 0.4
15 TH	0003 0620 1212 1918	0.8 0.6 0.8 0.4			

MARCH

	Time	m		Time	m
1 FR	0906 1914	0.8 0.4	**16** SA	0318 0724 1102 1926	0.9 0.8 0.9 0.2
2 SA	0937 1934	0.9 0.3	**17** SU	0417 0759 1136 2011	0.9 0.9 1.0 0.1
3 SU	0446 0656 1033 2002	0.8 0.8 0.9 0.3	**18** MO	0512 0827 1212 2052	0.9 0.9 1.0 0.1
4 MO	0428 0732 1132 2035	0.9 0.8 0.9 0.2	**19** TU	0609 0850 1247 2130	0.9 0.9 1.0 0.1
5 TU	0437 0747 1228 2113	0.9 0.8 0.9 0.2	**20** WE	0712 0910 1318 2203	0.9 0.9 0.9 0.2
6 WE	0502 0755 1320 2154	0.8 0.8 1.0 0.2	**21** TH	0809 0947 1343 2229	0.9 0.9 0.9 0.3
7 TH	0538 0807 1409 2240	0.8 0.8 1.0 0.2	**22** FR	0833 1103 1354 2248	0.8 0.8 0.8 0.4
8 FR	0623 0826 1457 2329	0.8 0.7 1.0 0.3	**23** SA	0837 1255 1326 2254	0.8 0.8 0.8 0.4
9 SA	0717 0854 1547	0.7 0.7 1.0	**24** SU	0818 2239	0.8 0.5
10 SU	0022 0811 0943 1644	0.3 0.7 0.7 1.0	**25** MO	0648 1742 1926 2132	0.7 0.6 0.6 0.6
11 MO	0122 0849 1118 1810	0.4 0.7 0.7 0.9	**26** TU	0503 1653	0.8 0.5
12 TU	0238 0917 1354 2044	0.5 0.7 0.6 0.8	**27** WE	0438 1642	0.8 0.5
13 WE	0415 0940 1618 2344	0.6 0.7 0.5 0.8	**28** TH	0433 1657	0.9 0.4
14 TH	0540 1004 1740	0.7 0.8 0.4	**29** FR	0413 1723	0.9 0.3
15 FR	0204 0639 1031 1837	0.9 0.8 0.9 0.2	**30** SA	0341 1755	0.9 0.3
			31 SU	0324 1831	0.9 0.3

APRIL

	Time	m		Time	m
1 MO	0316 1910	0.9 0.2	**16** TU	0420 0918 1109 2002	1.0 0.9 0.9 0.2
2 TU	0323 0811 1059 1951	0.9 0.8 0.9 0.2	**17** WE	0443 1002 1158 2033	0.9 0.8 0.8 0.2
3 WE	0343 0807 1208 2035	0.9 0.8 0.9 0.2	**18** TH	0503 1052 1245 2055	0.9 0.8 0.8 0.3
4 TH	0410 0806 1306 2120	0.9 0.8 0.9 0.3	**19** FR	0516 1143 1339 2107	0.9 0.7 0.7 0.4
5 FR	0440 0819 1400 2206	0.8 0.7 1.0 0.3	**20** SA	0514 1228 1500 2102	0.8 0.6 0.6 0.5
6 SA	0509 0852 1457 2253	0.8 0.7 0.9 0.4	**21** SU	0445 1300 1733 2024	0.8 0.6 0.6 0.6
7 SU	0534 0947 1605 2339	0.7 0.6 0.9 0.5	**22** MO	0401 1325	0.8 0.5
8 MO	0553 1109 1750	0.7 0.6 0.8	**23** TU	0329 1350	0.9 0.4
9 TU	0025 0609 1250 2030	0.6 0.7 0.5 0.8	**24** WE	0322 1418	0.9 0.3
10 WE	0123 0622 1429	0.7 0.8 0.4	**25** TH	0323 1451	1.0 0.3
11 TH	0130 0512 0632 1554	0.9 0.8 0.8 0.3	**26** FR	0316 1528	1.0 0.3
12 FR	0216 1700	0.9 0.2	**27** SA	0254 1610	1.0 0.2
13 SA	0253 1755	1.0 0.1	**28** SU	0240 1655	1.0 0.2
14 SU	0325 0810 0920 1843	1.0 0.9 0.9 0.1	**29** MO	0233 1742	1.0 0.2
15 MO	0354 0841 1017 1925	1.0 0.9 0.9 0.1	**30** TU	0236 1829	1.0 0.2

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56135

PAPUA NEW GUINEA - HAWEI ISLAND NORTHEAST

LAT 1° 58´ S LONG 147° 18´ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

MAY

	Time	m		Time	m
1 WE	0252 1.0 0804 0.8 1026 0.8 1917 0.2		**16** TH	0344 1.0 1919 0.3	
2 TH	0315 0.9 0801 0.8 1144 0.9 2003 0.3		**17** FR	0351 1.0 1131 0.6 1302 0.6 1926 0.4	
3 FR	0337 0.9 0815 0.7 1251 0.9 2047 0.3		**18** SA	0345 0.9 1140 0.5 1530 0.6 1913 0.5	
4 SA	0355 0.8 0848 0.7 1402 0.8 2126 0.4		**19** SU	0322 0.9 1154 0.4	
5 SU	0406 0.8 0943 0.6 1530 0.8 2155 0.6		**20** MO	0254 0.9 1210 0.4	
6 MO	0410 0.8 1052 0.5 1740 0.8 2158 0.7		**21** TU	0235 1.0 1229 0.3	
7 TU	0412 0.9 1206 0.4		**22** WE	0231 1.0 1253 0.3	
8 WE	0413 0.9 1317 0.3		**23** TH	0238 1.0 1321 0.2	
9 TH	0404 1.0 1424 0.2		**24** FR	0247 1.0 1356 0.2	
10 FR	0313 1.0 1526 0.1		**25** SA	0243 1.0 1437 0.2	
11 SA	0258 1.1 1622 0.1		**26** SU	0224 1.0 1525 0.2	
12 SU	0306 1.1 1712 0.1		**27** MO	0215 1.0 1617 0.2	
13 MO	0314 1.1 1756 0.1		**28** TU	0215 1.0 1711 0.2	
14 TU	0323 1.0 1832 0.2		**29** WE	0222 1.0 1803 0.2	
15 WE	0334 1.0 1900 0.2		**30** TH	0237 0.9 0752 0.8 0959 0.8 1852 0.3	
			31 FR	0252 0.9 0809 0.8 1133 0.8 1936 0.4	

JUNE

	Time	m		Time	m
1 SA	0304 0.9 0845 0.7 1308 0.8 2012 0.5		**16** SU	0218 1.0 1050 0.4	
2 SU	0309 0.9 0933 0.5 1509 0.7 2026 0.6		**17** MO	0156 1.0 1102 0.3	
3 MO	0309 0.9 1028 0.4 1739 0.7 1954 0.7		**18** TU	0144 1.0 1119 0.2	
4 TU	0309 0.9 1123 0.3		**19** WE	0145 1.0 1140 0.2	
5 WE	0315 1.0 1218 0.2		**20** TH	0200 1.1 1206 0.2	
6 TH	0325 1.1 1312 0.1		**21** FR	0222 1.1 1238 0.2	
7 FR	0332 1.1 1405 0.0		**22** SA	0248 1.1 1317 0.2	
8 SA	0327 1.1 1456 0.0		**23** SU	0316 1.0 1404 0.2	
9 SU	0312 1.1 1544 0.1		**24** MO	0339 1.0 1458 0.2	
10 MO	0259 1.1 1627 0.1		**25** TU	0323 1.0 1556 0.2	
11 TU	0248 1.1 1702 0.2		**26** WE	0244 1.0 1655 0.2	
12 WE	0243 1.0 1729 0.3		**27** TH	0218 0.9 1751 0.3	
13 TH	0245 1.0 1746 0.4		**28** FR	0212 0.9 0742 0.8 1012 0.8 1841 0.4	
14 FR	0247 1.0 1109 0.6 1156 0.6 1751 0.4		**29** SA	0215 0.9 0818 0.7 1226 0.7 1921 0.5	
15 SA	0239 1.0 1043 0.5 1537 0.5 1725 0.5		**30** SU	0218 0.9 0901 0.5 1456 0.7 1938 0.6	

JULY

	Time	m		Time	m
1 MO	0218 0.9 0947 0.4 1736 0.7 1821 0.7		**16** TU	0043 1.0 1005 0.2	
2 TU	0219 1.0 1034 0.2		**17** WE	0053 1.0 1026 0.2	
3 WE	0228 1.1 1121 0.1		**18** TH	0117 1.0 1053 0.2	
4 TH	0243 1.1 1207 0.1		**19** FR	0150 1.0 1124 0.2	
5 FR	0300 1.2 1253 0.0		**20** SA	0229 1.0 1202 0.2	
6 SA	0314 1.2 1337 0.0		**21** SU	0312 1.0 1247 0.2	
7 SU	0315 1.1 1420 0.1		**22** MO	0355 1.0 1339 0.2	
8 MO	0256 1.1 1459 0.2		**23** TU	0440 1.0 1439 0.2	
9 TU	0226 1.0 1531 0.2		**24** WE	0527 1.0 1544 0.3	
10 WE	0202 1.0 1556 0.3		**25** TH	0631 0.9 1651 0.3	
11 TH	0152 1.0 1612 0.4		**26** FR	0122 0.8 0618 0.8 0912 0.8 1752 0.4	
12 FR	0146 1.0 1016 0.5 1111 0.5 1610 0.5		**27** SA	0110 0.8 0715 0.6 1158 0.7 1844 0.5	
13 SA	0134 0.9 0937 0.4		**28** SU	0112 0.9 0802 0.5 1431 0.7 1921 0.7	
14 SU	0107 0.9 0939 0.4		**29** MO	0117 0.9 0848 0.3 1643 0.8 1919 0.8	
15 MO	0048 1.0 0949 0.3		**30** TU	0124 1.0 0932 0.2	
			31 WE	0138 1.1 1016 0.1	

AUGUST

	Time	m		Time	m
1 TH	0158 1.1 1100 0.1		**16** FR	0106 1.0 1007 0.2	
2 FR	0220 1.1 1142 0.0		**17** SA	0153 1.0 1045 0.2	
3 SA	0241 1.1 1221 0.1		**18** SU	0239 1.0 1129 0.2	
4 SU	0253 1.1 1257 0.1		**19** MO	0325 1.0 1218 0.2	
5 MO	0245 1.0 1329 0.2		**20** TU	0412 1.0 1315 0.3	
6 TU	0206 1.0 1354 0.3		**21** WE	0504 1.0 1422 0.3	
7 WE	0111 0.9 1409 0.4		**22** TH	0617 0.9 1540 0.4 2321 0.7	
8 TH	0046 0.9 1408 0.5		**23** FR	0248 0.7 0842 0.8 1700 0.5 2322 0.8	
9 FR	0031 0.9 0832 0.5		**24** SA	0528 0.6 1132 0.8 1806 0.6 2333 0.8	
10 SA	0000 0.8 0814 0.4 2318 0.9		**25** SU	0638 0.4 1401 0.8 1855 0.7 2348 0.9	
11 SU	0817 0.4 2305 0.9		**26** MO	0730 0.3 1543 0.9 1930 0.8	
12 MO	0827 0.3 2313 0.9		**27** TU	0008 0.9 0818 0.2 1724 0.9 1941 0.9	
13 TU	0844 0.3 2340 0.9		**28** WE	0032 1.0 0903 0.1	
14 WE	0907 0.2		**29** TH	0101 1.1 0946 0.1	
15 TH	0020 0.9 0934 0.2		**30** FR	0131 1.1 1027 0.1	
			31 SA	0200 1.0 1103 0.1	

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56 135

PAPUA NEW GUINEA - HAWEI ISLAND NORTHEAST

LAT 1° 58´ S LONG 147° 18´ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

SEPTEMBER

	Time	m		Time	m
1 SU	0221 1.0 1134 0.2		**16** MO	0239 1.0 1055 0.3 1813 0.7 2103 0.7	
2 MO	0225 0.9 1156 0.3		**17** TU	0329 1.0 1146 0.4 1858 0.7 2148 0.7	
3 TU	0132 0.8 1208 0.4 2303 0.8		**18** WE	0428 0.9 1244 0.4 1939 0.7 2305 0.6	
4 WE	1202 0.5 2232 0.8		**19** TH	0554 0.9 1355 0.5 2012 0.7	
5 TH	1102 0.6 2123 0.8		**20** FR	0107 0.6 0820 0.8 1541 0.6 2040 0.7	
6 FR	0634 0.5 1954 0.8		**21** SA	0319 0.5 1116 0.8 1724 0.7 2108 0.8	
7 SA	0631 0.4 1801 0.8		**22** SU	0453 0.4 1350 0.9 1828 0.8 2140 0.9	
8 SU	0637 0.4 1741 0.9		**23** MO	0559 0.2 1503 0.9 1910 0.9 2218 0.9	
9 MO	0650 0.3 1647 0.9		**24** TU	0653 0.1 1559 1.0 1942 0.9 2259 1.0	
10 TU	0711 0.3 1623 0.9		**25** WE	0742 0.1 1649 1.0 2009 0.9 2341 1.0	
11 WE	0738 0.3 1612 0.9 2009 0.8 2247 0.9		**26** TH	0826 0.1 1734 0.9 2035 0.9	
12 TH	0810 0.3 1614 0.9 2014 0.8		**27** FR	0024 1.0 0905 0.1 1810 0.9 2110 0.9	
13 FR	0000 0.9 0846 0.3 1630 0.8 2017 0.8		**28** SA	0104 0.9 0939 0.2 1834 0.9 2207 0.8	
14 SA	0058 0.9 0925 0.3 1657 0.8 2022 0.8		**29** SU	0140 0.9 1005 0.3 1849 0.8 2324 0.8	
15 SU	0150 0.9 1008 0.3 1732 0.8 2036 0.7		**30** MO	0211 0.8 1020 0.4 1855 0.8	

OCTOBER

	Time	m		Time	m
1 TU	0107 0.7 0227 0.7 1019 0.5 1829 0.8		**16** WE	0347 0.9 1100 0.5 1705 0.7 2251 0.5	
2 WE	0358 0.6 0504 0.6 0943 0.6 1723 0.8		**17** TH	0531 0.8 1139 0.6 1713 0.8	
3 TH	0343 0.5 1616 0.8		**18** FR	0020 0.5 0804 0.8 1151 0.8 1718 0.8	
4 FR	0354 0.4 1557 0.9		**19** SA	0150 0.4 1651 0.9	
5 SA	0408 0.4 1553 0.9		**20** SU	0312 0.2 1422 1.0	
6 SU	0429 0.3 1542 1.0		**21** MO	0423 0.2 1452 1.0	
7 MO	0456 0.3 1525 1.0		**22** TU	0522 0.1 1521 1.0	
8 TU	0527 0.3 1513 1.0		**23** WE	0614 0.1 1545 1.0 2024 0.9 2136 0.9	
9 WE	0602 0.3 1505 1.0		**24** TH	0659 0.1 1603 1.0 2059 0.9 2239 0.9	
10 TH	0640 0.3 1506 0.9 2035 0.8 2205 0.8		**25** FR	0738 0.1 1619 1.0 2145 0.8 2338 0.8	
11 FR	0721 0.3 1519 0.9 2015 0.8 2338 0.8		**26** SA	0809 0.2 1633 0.9 2239 0.7	
12 SA	0803 0.3 1541 0.9 2015 0.8		**27** SU	0040 0.8 0830 0.3 1643 0.9 2332 0.7	
13 SU	0041 0.9 0847 0.3 1606 0.8 2025 0.7		**28** MO	0158 0.7 0838 0.4 1641 0.9	
14 MO	0139 0.9 0932 0.3 1631 0.8 2051 0.7		**29** TU	0017 0.6 0358 0.6 0824 0.5 1617 0.9	
15 TU	0237 0.9 1017 0.4 1651 0.8 2140 0.6		**30** WE	0052 0.5 1538 0.9	
			31 TH	0119 0.4 1506 0.9	

NOVEMBER

	Time	m		Time	m
1 FR	0142 0.3 1456 1.0		**16** SA	0046 0.2 1559 1.0	
2 SA	0204 0.3 1455 1.0		**17** SU	0152 0.1 1559 1.1	
3 SU	0232 0.3 1453 1.0		**18** MO	0254 0.1 1533 1.1	
4 MO	0304 0.2 1442 1.0		**19** TU	0352 0.0 1520 1.1	
5 TU	0342 0.2 1432 1.0		**20** WE	0445 0.0 1516 1.1	
6 WE	0424 0.2 1425 1.0		**21** TH	0531 0.1 1513 1.0	
7 TH	0510 0.2 1424 1.0		**22** FR	0609 0.2 1515 1.0	
8 FR	0557 0.3 1434 1.0 2023 0.8 2127 0.8		**23** SA	0638 0.2 1521 1.0	
9 SA	0644 0.3 1452 0.9 2001 0.8 2310 0.8		**24** SU	0655 0.3 1526 1.0 2302 0.6	
10 SU	0729 0.3 1512 0.9 2013 0.7		**25** MO	0134 0.6 0658 0.4 1523 1.0 2322 0.5	
11 MO	0024 0.8 0813 0.4 1528 0.8 2042 0.7		**26** TU	0419 0.6 0631 0.5 1505 1.0 2343 0.4	
12 TU	0139 0.8 0852 0.4 1538 0.8 2130 0.6		**27** WE	1438 1.0	
13 WE	0309 0.8 0920 0.6 1542 0.8 2231 0.5		**28** TH	0002 0.3 1416 1.0	
14 TH	0516 0.8 0924 0.7 1545 0.9 2339 0.3		**29** FR	0021 0.2 1408 1.0	
15 FR	1551 0.9		**30** SA	0042 0.2 1414 1.1	

DECEMBER

	Time	m		Time	m
1 SU	0107 0.2 1425 1.1		**16** MO	0137 0.0 1550 1.2	
2 MO	0136 0.2 1430 1.1		**17** TU	0229 0.0 1548 1.1	
3 TU	0212 0.2 1422 1.0		**18** WE	0318 0.0 1518 1.1	
4 WE	0255 0.2 1414 1.0		**19** TH	0403 0.1 1445 1.1	
5 TH	0345 0.2 1413 1.0		**20** FR	0440 0.2 1425 1.0	
6 FR	0439 0.2 1414 1.0		**21** SA	0508 0.3 1421 1.0	
7 SA	0532 0.3 1422 0.9 1959 0.8 2059 0.8		**22** SU	0524 0.4 1422 1.0 2215 0.5	
8 SU	0622 0.3 1433 0.9 1956 0.8 2259 0.8		**23** MO	0104 0.5 0524 0.5 1417 1.0 2219 0.4	
9 MO	0708 0.4 1442 0.9 2028 0.7		**24** TU	1401 1.0 2233 0.3	
10 TU	0040 0.8 0744 0.5 1447 0.9 2112 0.5		**25** WE	1340 1.0 2250 0.3	
11 WE	0243 0.7 0801 0.6 1446 0.9 2203 0.4		**26** TH	1325 1.0 2307 0.2	
12 TH	0505 0.7 0737 0.7 1448 1.0 2256 0.3		**27** FR	1323 1.0 2328 0.2	
13 FR	1458 1.0 2350 0.2		**28** SA	1336 1.1 2352 0.2	
14 SA	1514 1.1		**29** SU	1400 1.1	
15 SU	0044 0.1 1534 1.2		**30** MO	0020 0.2 1430 1.0	
			31 TU	0055 0.2 1503 1.0	

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56 135

PAPUA NEW GUINEA - RABAUL

LAT 4° 12′ S LONG 152° 10′ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

JANUARY

	Time	m		Time	m
1 MO	0205	0.4	16 TU	0206	0.5
	1542	1.1		1420	1.0
2 TU	0146	0.5	17 WE	0056	0.6
	1542	1.1		1350	1.0
				2347	0.6
3 WE	0104	0.6	18 TH	1334	1.0
	1523	1.0		2217	0.5
4 TH	0010	0.6	19 FR	1326	1.0
	1428	1.0		2157	0.4
	2318	0.5			
5 FR	1322	1.0	20 SA	1332	1.1
	2244	0.5		2207	0.3
6 SA	1302	1.0	21 SU	1340	1.1
	2231	0.4		2228	0.2
7 SU	1305	1.1	22 MO	1343	1.1
	2232	0.3		2251	0.2
8 MO	1323	1.1	23 TU	1351	1.1
	2246	0.3		2316	0.2
9 TU	1348	1.2	24 WE	1408	1.1
	2309	0.2		2339	0.2
10 WE	1419	1.2	25 TH	1429	1.2
	2340	0.2		2359	0.3
11 TH	1453	1.3	26 FR	1453	1.2
12 FR	0015	0.2	27 SA	0015	0.3
	1526	1.3		1514	1.2
13 SA	0052	0.2	28 SU	0025	0.4
	1554	1.2		1533	1.1
14 SU	0129	0.3	29 MO	0024	0.4
	1610	1.2		1544	1.1
15 MO	0158	0.4	30 TU	0014	0.5
	1548	1.1		1547	1.1
				2356	0.5
			31 WE	1543	1.0
				2326	0.6

FEBRUARY

	Time	m		Time	m
1 TH	1517	0.9	16 FR	0540	1.0
	2254	0.5		2106	0.4
2 FR	1047	0.9	17 SA	0541	1.0
	2218	0.5		1015	0.9
				1226	1.0
				2114	0.3
3 SA	1108	0.9	18 SU	0556	1.1
	2157	0.4		1034	1.0
				1306	1.0
				2133	0.3
4 SU	1149	1.0	19 MO	0621	1.0
	2150	0.4		1041	1.0
				1337	1.0
				2155	0.2
5 MO	1231	1.0	20 TU	0658	1.0
	2158	0.3		1023	1.0
				1400	1.0
				2218	0.2
6 TU	1311	1.1	21 WE	0824	1.0
	2216	0.2		0915	1.0
				1415	1.0
				2240	0.3
7 WE	1351	1.2	22 TH	1429	1.1
	2242	0.2		2257	0.3
8 TH	1429	1.2	23 FR	1444	1.1
	2312	0.2		2310	0.4
9 FR	1505	1.3	24 SA	1502	1.1
	2343	0.2		2315	0.4
10 SA	1540	1.2	25 SU	0548	0.8
				0806	0.8
				1519	1.1
				2312	0.5
11 SU	0012	0.3	26 MO	0536	0.8
	1609	1.2		0900	0.8
				1536	1.1
				2306	0.5
12 MO	0031	0.4	27 TU	0534	0.9
	1626	1.1		0950	0.8
				1545	1.0
				2252	0.6
13 TU	0026	0.5	28 WE	0536	0.9
	1601	1.0		1039	0.8
	2338	0.6		1549	0.9
				2228	0.6
14 WE	1233	0.9	29 TH	0539	1.0
	2243	0.6		1133	0.8
				1544	0.8
				2203	0.6
15 TH	1133	0.9			
	2133	0.5			

MARCH

	Time	m		Time	m
1 FR	0539	1.0	16 SA	0435	1.1
	1243	0.8		1954	0.4
	1511	0.8			
	2130	0.6			
2 SA	0541	1.0	17 SU	0445	1.2
	2102	0.5		2021	0.3
3 SU	0538	1.0	18 MO	0500	1.1
	2052	0.4		1149	0.9
				1214	0.9
				2047	0.3
4 MO	0529	1.0	19 TU	0519	1.1
	2058	0.3		1052	0.9
				1325	0.9
				2112	0.3
5 TU	0527	1.0	20 WE	0540	1.0
	2114	0.3		1028	0.9
				1354	1.0
				2133	0.4
6 WE	0534	1.0	21 TH	0552	1.0
	0838	1.0		0954	0.9
	1302	1.1		1412	1.0
	2137	0.2		2150	0.4
7 TH	0547	1.0	22 FR	0525	0.9
	0842	1.0		0915	0.9
	1348	1.1		1427	1.0
	2204	0.2		2202	0.5
8 FR	0600	1.0	23 SA	0449	0.9
	0903	0.9		0834	0.8
	1429	1.2		1442	1.0
	2231	0.3		2205	0.5
9 SA	0605	0.9	24 SU	0427	0.9
	0934	0.9		0853	0.8
	1507	1.2		1500	1.0
	2256	0.3		2201	0.6
10 SU	0610	0.9	25 MO	0418	0.9
	1016	0.9		0928	0.7
	1543	1.1		1521	1.0
	2313	0.5		2154	0.6
11 MO	0616	0.9	26 TU	0416	1.0
	1109	0.8		1010	0.7
	1618	1.0		1543	0.9
	2308	0.6		2138	0.6
12 TU	0614	1.0	27 WE	0421	1.0
	1217	0.8		1053	0.7
	1647	0.9		1559	0.8
	2225	0.7		2113	0.7
13 WE	0548	1.0	28 TH	0427	1.1
	1359	0.7		1137	0.6
	1643	0.8		1607	0.7
	2129	0.7		2048	0.6
14 TH	0458	1.0	29 FR	0431	1.1
	1958	0.6		1228	0.6
				1601	0.7
				2007	0.6
15 FR	0435	1.1	30 SA	0437	1.1
	1933	0.5		1930	0.5
			31 SU	0439	1.1
				1927	0.5

APRIL

	Time	m		Time	m
1 MO	0437	1.1	16 TU	0418	1.1
	1939	0.4		1954	0.4
2 TU	0430	1.1	17 WE	0432	1.1
	1959	0.3		2019	0.4
3 WE	0426	1.1	18 TH	0438	1.0
	2024	0.3		1044	0.8
				1321	0.9
				2036	0.5
4 TH	0429	1.1	19 FR	0421	1.0
	0856	0.9		1015	0.8
	1238	1.0		1354	0.9
	2051	0.3		2048	0.5
5 FR	0433	1.1	20 SA	0350	1.0
	0905	0.9		1002	0.8
	1335	1.1		1422	0.9
	2117	0.4		2051	0.6
6 SA	0436	1.0	21 SU	0328	1.0
	0933	0.8		1003	0.7
	1423	1.0		1452	0.8
	2139	0.4		2045	0.6
7 SU	0439	1.0	22 MO	0316	1.0
	1013	0.8		1012	0.7
	1510	1.0		1526	0.8
	2153	0.5		2031	0.7
8 MO	0442	1.0	23 TU	0312	1.1
	1101	0.7		1033	0.6
	1601	0.9		1609	0.8
	2145	0.7		2001	0.7
9 TU	0437	1.1	24 WE	0317	1.1
	1155	0.6		1103	0.6
	1700	0.8		1710	0.7
	2055	0.7		1918	0.7
10 WE	0422	1.1	25 TH	0325	1.1
	1255	0.6		1139	0.5
11 TH	0400	1.1	26 FR	0333	1.2
	1417	0.5		1221	0.5
12 FR	0343	1.2	27 SA	0343	1.2
	1625	0.5		1318	0.5
13 SA	0342	1.2	28 SU	0353	1.2
	1751	0.4		1554	0.5
14 SU	0350	1.2	29 MO	0359	1.2
	1843	0.4		1740	0.4
15 MO	0403	1.2	30 TU	0355	1.1
	1923	0.4		1825	0.4

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56200

PAPUA NEW GUINEA - RABAUL

LAT 4° 12′ S LONG 152° 10′ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

MAY

	Time	m		Time	m
1 WE	0344 1.1 1900 0.4		**16** TH	0357 1.1 1916 0.5	
2 TH	0336 1.1 1930 0.4		**17** FR	0347 1.0 1928 0.6	
3 FR	0334 1.1 0907 0.9 1200 0.9 1957 0.4		**18** SA	0313 1.0 1112 0.7 1415 0.7 1932 0.6	
4 SA	0331 1.1 0924 0.8 1325 0.9 2018 0.5		**19** SU	0240 1.0 1051 0.7 1530 0.7 1921 0.7	
5 SU	0331 1.1 0957 0.7 1439 0.8 2027 0.6		**20** MO	0222 1.0 1048 0.6 1702 0.7 1826 0.7	
6 MO	0331 1.1 1039 0.6 1557 0.8 2005 0.7		**21** TU	0214 1.1 1058 0.5	
7 TU	0326 1.1 1124 0.5		**22** WE	0217 1.1 1117 0.4	
8 WE	0313 1.1 1213 0.4		**23** TH	0227 1.2 1142 0.4	
9 TH	0302 1.2 1305 0.3		**24** FR	0240 1.2 1214 0.3	
10 FR	0252 1.2 1404 0.3		**25** SA	0256 1.2 1257 0.3	
11 SA	0253 1.2 1514 0.3		**26** SU	0314 1.2 1353 0.3	
12 SU	0305 1.2 1629 0.3		**27** MO	0330 1.2 1507 0.3	
13 MO	0319 1.2 1732 0.4		**28** TU	0337 1.2 1623 0.3	
14 TU	0335 1.2 1820 0.4		**29** WE	0326 1.1 1719 0.4	
15 WE	0349 1.1 1853 0.4		**30** TH	0304 1.1 1801 0.4	
			31 FR	0250 1.1 1832 0.5	

JUNE

	Time	m		Time	m
1 SA	0241 1.1 1852 0.6		**16** SU	0210 1.0 1113 0.5	
2 SU	0234 1.1 0953 0.6 1511 0.7 1849 0.7		**17** MO	0138 1.0 1059 0.5	
3 MO	0232 1.1 1021 0.5		**18** TU	0124 1.0 1056 0.4	
4 TU	0227 1.1 1056 0.4		**19** WE	0125 1.1 1104 0.3	
5 WE	0215 1.1 1135 0.3		**20** TH	0137 1.1 1122 0.3	
6 TH	0206 1.2 1216 0.2		**21** FR	0156 1.1 1148 0.2	
7 FR	0203 1.2 1258 0.2		**22** SA	0220 1.2 1221 0.2	
8 SA	0209 1.2 1342 0.2		**23** SU	0246 1.2 1300 0.2	
9 SU	0227 1.2 1428 0.3		**24** MO	0313 1.2 1344 0.2	
10 MO	0248 1.2 1518 0.3		**25** TU	0333 1.1 1429 0.3	
11 TU	0307 1.1 1611 0.4		**26** WE	0331 1.1 1514 0.3	
12 WE	0321 1.1 1658 0.4		**27** TH	0254 1.1 1551 0.4	
13 TH	0331 1.0 1732 0.5		**28** FR	0221 1.0 1607 0.5	
14 FR	0330 1.0 1751 0.6		**29** SA	0204 1.0 1255 0.6	
15 SA	0305 1.0 1200 0.6		**30** SU	0151 1.0 1011 0.5	

JULY

	Time	m		Time	m
1 MO	0147 1.0 1005 0.4		**16** TU	0038 0.9 1023 0.3	
2 TU	0147 1.0 1026 0.3		**17** WE	0038 1.0 1026 0.3	
3 WE	0140 1.1 1055 0.2		**18** TH	0054 1.0 1039 0.2	
4 TH	0130 1.1 1128 0.1		**19** FR	0121 1.1 1059 0.2	
5 FR	0130 1.1 1202 0.1		**20** SA	0151 1.1 1127 0.2	
6 SA	0141 1.1 1235 0.2		**21** SU	0224 1.1 1158 0.2	
7 SU	0203 1.1 1306 0.2		**22** MO	0256 1.2 1232 0.2	
8 MO	0228 1.1 1333 0.3		**23** TU	0324 1.1 1304 0.2	
9 TU	0251 1.1 1354 0.4		**24** WE	0340 1.1 1326 0.3	
10 WE	0307 1.1 1353 0.4		**25** TH	0317 1.0 1316 0.4	
11 TH	0315 1.0 1253 0.5		**26** FR	0158 1.0 1212 0.5	
12 FR	0317 1.0 1204 0.5		**27** SA	0128 0.9 1105 0.5	
13 SA	0307 0.9 1123 0.5		**28** SU	0112 0.9 0941 0.4	
14 SU	0227 0.9 1048 0.5		**29** MO	0105 0.9 0927 0.3 1825 0.9 2103 0.9	
15 MO	0111 0.9 1030 0.4		**30** TU	0112 1.0 0941 0.2 1854 0.9 2146 0.9	
			31 WE	0125 1.0 1005 0.1 1947 1.0 2157 0.9	

AUGUST

	Time	m		Time	m
1 TH	0134 1.0 1034 0.1		**16** FR	0044 1.0 0959 0.2	
2 FR	0137 1.0 1103 0.1		**17** SA	0121 1.0 1022 0.2	
3 SA	0147 1.0 1130 0.2		**18** SU	0156 1.1 1048 0.2	
4 SU	0201 1.0 1153 0.2		**19** MO	0229 1.1 1116 0.2	
5 MO	0217 1.1 1210 0.3		**20** TU	0301 1.1 1141 0.3	
6 TU	0235 1.0 1214 0.4		**21** WE	0327 1.1 1155 0.4	
7 WE	0251 1.0 1153 0.4		**22** TH	0340 1.0 1136 0.5	
8 TH	0300 1.0 1123 0.5		**23** FR	0239 0.8 1037 0.5	
9 FR	0304 0.9 1052 0.5 1804 0.7 2115 0.7		**24** SA	0010 0.8 0938 0.5 1659 0.9	
10 SA	0302 0.9 1025 0.5 1754 0.8 2210 0.7		**25** SU	0832 0.4 1648 1.0	
11 SU	0246 0.8 1000 0.5 1751 0.8 2317 0.8		**26** MO	0823 0.3 1657 1.0 2214 0.8	
12 MO	0140 0.8 0942 0.4 1754 0.9		**27** TU	0017 0.9 0839 0.2 1715 1.0 2226 0.9	
13 TU	0933 0.3 1800 0.9		**28** WE	0054 0.9 0904 0.2 1739 1.0 2235 0.9	
14 WE	0933 0.3 1815 0.9 2103 0.9		**29** TH	0125 0.9 0931 0.1 1809 1.0 2235 0.9	
15 TH	0002 0.9 0943 0.2		**30** FR	0148 0.9 0958 0.2 1854 0.9 2209 0.9	
			31 SA	0158 0.9 1022 0.2	

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56200

Papua New Guinea National Tide Tables 2024 NTM Edition 23 10 Nov 2023.

PAPUA NEW GUINEA - RABAUL

LAT 4° 12′ S LONG 152° 10′ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

SEPTEMBER

	Time	m		Time	m
1 SU	0203	1.0	**16** MO	0153	1.1
	1042	0.3		0958	0.3
				1739	0.9
				2114	0.8
2 MO	0209	1.0	**17** TU	0228	1.1
	1051	0.4		1019	0.3
				1736	0.9
				2151	0.8
3 TU	0220	1.0	**18** WE	0303	1.0
	1047	0.4		1028	0.4
	1719	0.7		1733	0.9
	1943	0.7		2243	0.7
4 WE	0232	1.0	**19** TH	0336	0.9
	1024	0.5		1009	0.5
	1649	0.8		1719	0.9
	2035	0.7			
5 TH	0243	0.9	**20** FR	0002	0.7
	1002	0.5		0402	0.8
	1636	0.8		0911	0.6
	2122	0.7		1640	0.9
6 FR	0250	0.9	**21** SA	0758	0.6
	0938	0.5		1604	1.0
	1635	0.9			
	2207	0.7			
7 SA	0253	0.8	**22** SU	0633	0.5
	0917	0.5		1551	1.1
	1636	0.9			
	2253	0.7			
8 SU	0251	0.7	**23** MO	0647	0.3
	0857	0.5		1557	1.1
	1639	1.0			
	2348	0.7			
9 MO	0225	0.7	**24** TU	0718	0.3
	0839	0.4		1610	1.1
	1643	1.0			
10 TU	0829	0.4	**25** WE	0749	0.2
	1648	1.0		1628	1.1
				2256	0.8
11 WE	0829	0.3	**26** TH	0028	0.8
	1652	1.0		0820	0.2
				1647	1.1
				2235	0.8
12 TH	0837	0.3	**27** FR	0116	0.8
	1701	1.0		0847	0.2
				1708	1.0
				2226	0.8
13 FR	0852	0.2	**28** SA	0143	0.9
	1713	1.0		0910	0.3
	2106	0.9		1722	0.9
				2210	0.8
14 SA	0033	1.0	**29** SU	0156	0.9
	0912	0.2		0927	0.4
	1727	0.9		1708	0.9
	2046	0.9		2148	0.8
15 SU	0116	1.0	**30** MO	0201	0.9
	0934	0.2		0934	0.4
	1738	0.9		1632	0.8
	2052	0.9		2106	0.8

OCTOBER

	Time	m		Time	m
1 TU	0208	0.9	**16** WE	0236	0.9
	0925	0.5		0902	0.5
	1559	0.9		1605	1.0
	2050	0.7		2242	0.6
2 WE	0220	0.9	**17** TH	0328	0.8
	0903	0.6		0838	0.6
	1538	0.9		1554	1.0
	2113	0.7		2336	0.5
3 TH	0235	0.8	**18** FR	0441	0.7
	0839	0.6		0736	0.7
	1531	1.0		1536	1.1
	2147	0.6			
4 FR	0250	0.8	**19** SA	0042	0.5
	0815	0.6		1519	1.1
	1533	1.0			
	2225	0.6			
5 SA	0258	0.7	**20** SU	0218	0.4
	0752	0.6		1506	1.2
	1538	1.1			
	2306	0.6			
6 SU	0259	0.6	**21** MO	0412	0.3
	0728	0.5		1508	1.2
	1544	1.1			
	2351	0.5			
7 MO	0253	0.6	**22** TU	0523	0.3
	0707	0.5		1519	1.2
	1552	1.1			
8 TU	0700	0.4	**23** WE	0614	0.3
	1559	1.1		1534	1.2
9 WE	0707	0.4	**24** TH	0655	0.3
	1604	1.1		1550	1.2
10 TH	0720	0.3	**25** FR	0728	0.3
	1606	1.1		1606	1.1
				2310	0.8
11 FR	0736	0.3	**26** SA	0038	0.8
	1609	1.1		0754	0.4
				1615	1.0
				2243	0.8
12 SA	0756	0.3	**27** SU	0124	0.8
	1612	1.0		0810	0.4
	2114	0.9		1604	1.0
				2233	0.7
13 SU	0002	0.9	**28** MO	0153	0.8
	0817	0.3		0817	0.5
	1614	1.0		1534	1.0
	2106	0.8		2224	0.7
14 MO	0101	0.9	**29** TU	0217	0.8
	0839	0.3		0808	0.6
	1612	1.0		1505	1.0
	2124	0.8		2223	0.7
15 TU	0149	0.9	**30** WE	0246	0.7
	0856	0.4		0741	0.6
	1608	1.0		1443	1.0
	2158	0.7		2228	0.6
			31 TH	0323	0.7
				0702	0.7
				1436	1.1
				2237	0.6

NOVEMBER

	Time	m		Time	m
1 FR	0423	0.7	**16** SA	1436	1.2
	0609	0.7			
	1439	1.1			
	2253	0.5			
2 SA	1448	1.2	**17** SU	0043	0.3
	2320	0.5		1431	1.2
3 SU	1457	1.2	**18** MO	0143	0.2
	2355	0.4		1432	1.3
4 MO	1508	1.2	**19** TU	0252	0.2
				1444	1.2
5 TU	0046	0.4	**20** WE	0403	0.3
	1521	1.2		1459	1.2
6 WE	0435	0.4	**21** TH	0504	0.3
	1533	1.2		1514	1.2
7 TH	0527	0.4	**22** FR	0552	0.4
	1537	1.2		1528	1.1
8 FR	0600	0.4	**23** SA	0626	0.4
	1534	1.1		1538	1.1
9 SA	0629	0.4	**24** SU	0647	0.5
	1526	1.1		1533	1.0
				2347	0.7
10 SU	0654	0.4	**25** MO	0147	0.7
	1519	1.1		0655	0.6
				1502	1.0
				2310	0.6
11 MO	0716	0.4	**26** TU	0319	0.7
	1512	1.1		0645	0.6
	2128	0.7		1424	1.0
				2301	0.6
12 TU	0053	0.8	**27** WE	1401	1.0
	0732	0.5		2257	0.5
	1505	1.1			
	2149	0.6			
13 WE	0215	0.8	**28** TH	1350	1.1
	0733	0.6		2302	0.5
	1500	1.1			
	2223	0.5			
14 TH	0348	0.7	**29** FR	1353	1.1
	0645	0.7		2314	0.4
	1453	1.1			
	2305	0.4			
15 FR	1442	1.2	**30** SA	1404	1.2
	2351	0.3		2332	0.3

DECEMBER

	Time	m		Time	m
1 SU	1420	1.2	**16** MO	0029	0.2
	2355	0.3		1419	1.2
2 MO	1438	1.2	**17** TU	0111	0.2
				1434	1.2
3 TU	0028	0.3	**18** WE	0155	0.2
	1459	1.2		1452	1.2
4 WE	0113	0.3	**19** TH	0239	0.3
	1519	1.2		1507	1.2
5 TH	0213	0.3	**20** FR	0323	0.4
	1534	1.2		1517	1.1
6 FR	0324	0.4	**21** SA	0402	0.5
	1533	1.2		1522	1.1
7 SA	0423	0.4	**22** SU	0425	0.5
	1512	1.1		1521	1.1
8 SU	0504	0.4	**23** MO	0023	0.6
	1448	1.1		1503	1.0
				2329	0.6
9 MO	0532	0.5	**24** TU	1406	1.0
	1428	1.1		2259	0.5
10 TU	0546	0.6	**25** WE	1326	1.0
	1414	1.1		2250	0.4
	2159	0.6			
11 WE	1408	1.1	**26** TH	1311	1.1
	2209	0.4		2249	0.4
12 TH	1406	1.1	**27** FR	1314	1.1
	2236	0.3		2256	0.3
13 FR	1401	1.2	**28** SA	1330	1.1
	2310	0.2		2310	0.3
14 SA	1402	1.2	**29** SU	1353	1.2
	2348	0.2		2329	0.2
15 SU	1409	1.2	**30** MO	1421	1.2
				2354	0.2
			31 TU	1451	1.2

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56200

PAPUA NEW GUINEA - ANEWA BAY

LAT 6° 11´ S LONG 155° 33´ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

JANUARY

	Time	m		Time	m
1 MO	0550	1.0	**16** TU	0010	0.4
	1030	0.8		0628	1.2
	1712	1.5		1131	0.7
				1744	1.5
2 TU	0016	0.5	**17** WE	0035	0.5
	0628	1.1		0712	1.2
	1109	0.8		1223	0.8
	1736	1.4		1806	1.2
3 WE	0045	0.5	**18** TH	0052	0.6
	0718	1.1		0808	1.2
	1159	0.9		1350	0.9
	1755	1.2		1757	1.0
4 TH	0117	0.6	**19** FR	0059	0.7
	0825	1.1		0925	1.3
	1325	1.0			
	1759	1.1			
5 FR	0155	0.7	**20** SA	0035	0.7
	0950	1.2		1058	1.3
				2032	0.6
6 SA	0254	0.7	**21** SU	1207	1.4
	1104	1.3		2037	0.5
	1946	0.7			
7 SU	0010	0.8	**22** MO	1256	1.5
	0417	0.8		2050	0.4
	1155	1.4			
	2000	0.6			
8 MO	0125	0.9	**23** TU	0304	0.9
	0528	0.8		0651	0.8
	1238	1.5		1338	1.6
	2022	0.4		2108	0.3
9 TU	0209	0.9	**24** WE	0313	1.0
	0625	0.7		0736	0.8
	1318	1.6		1414	1.7
	2049	0.3		2128	0.3
10 WE	0245	1.0	**25** TH	0331	1.0
	0714	0.7		0811	0.7
	1359	1.7		1446	1.7
	2121	0.2		2148	0.3
11 TH	0320	1.0	**26** FR	0350	1.1
	0758	0.7		0842	0.7
	1440	1.8		1516	1.7
	2156	0.2		2210	0.3
12 FR	0355	1.1	**27** SA	0409	1.1
	0841	0.6		0910	0.7
	1521	1.9		1543	1.7
	2231	0.2		2231	0.3
13 SA	0431	1.1	**28** SU	0429	1.2
	0923	0.6		0938	0.6
	1601	1.9		1608	1.7
	2307	0.2		2251	0.4
14 SU	0509	1.1	**29** MO	0449	1.2
	1005	0.6		1007	0.6
	1639	1.8		1631	1.6
	2340	0.3		2309	0.4
15 MO	0548	1.2	**30** TU	0512	1.3
	1046	0.7		1038	0.7
	1714	1.6		1653	1.5
				2327	0.4
			31 WE	0538	1.3
				1110	0.7
				1711	1.4
				2345	0.5

FEBRUARY

	Time	m		Time	m
1 TH	0608	1.3	**16** FR	0642	1.4
	1146	0.8		1302	0.9
	1724	1.3		1705	1.0
				2313	0.7
2 FR	0001	0.6	**17** SA	0724	1.3
	0642	1.3		2203	0.7
	1231	0.9			
	1724	1.1			
3 SA	0010	0.6	**18** SU	0922	1.3
	0730	1.3		2052	0.6
	2358	0.7			
4 SU	0902	1.2	**19** MO	1204	1.3
	2044	0.7		2042	0.5
5 MO	1111	1.3	**20** TU	0402	1.0
	2018	0.6		0639	1.0
				1301	1.4
				2045	0.5
6 TU	0312	0.9	**21** WE	0316	1.1
	0500	0.9		0722	0.9
	1226	1.5		1339	1.6
	2027	0.4		2054	0.4
7 WE	0237	1.0	**22** TH	0304	1.1
	0630	0.8		0752	0.8
	1315	1.6		1410	1.6
	2046	0.3		2106	0.4
8 TH	0250	1.1	**23** FR	0311	1.2
	0723	0.7		0819	0.7
	1357	1.8		1438	1.7
	2111	0.2		2121	0.4
9 FR	0312	1.2	**24** SA	0324	1.3
	0806	0.7		0844	0.7
	1437	1.9		1502	1.7
	2139	0.2		2137	0.4
10 SA	0339	1.2	**25** SU	0338	1.3
	0848	0.6		0909	0.6
	1516	1.9		1526	1.7
	2208	0.2		2153	0.4
11 SU	0410	1.3	**26** MO	0354	1.4
	0928	0.5		0934	0.6
	1553	1.9		1548	1.7
	2236	0.2		2209	0.4
12 MO	0440	1.4	**27** TU	0413	1.5
	1008	0.5		1000	0.6
	1627	1.8		1609	1.6
	2301	0.3		2224	0.4
13 TU	0510	1.4	**28** WE	0433	1.5
	1048	0.6		1028	0.6
	1658	1.6		1629	1.5
	2321	0.4		2240	0.5
14 WE	0540	1.4	**29** TH	0455	1.5
	1127	0.6		1057	0.6
	1722	1.4		1647	1.4
	2333	0.5		2253	0.5
15 TH	0611	1.4			
	1209	0.7			
	1730	1.2			
	2334	0.6			

MARCH

	Time	m		Time	m
1 FR	0518	1.5	**16** SA	0541	1.5
	1128	0.7		1237	0.8
	1700	1.2		1636	0.9
	2304	0.6		2159	0.7
2 SA	0540	1.5	**17** SU	0555	1.4
	1204	0.8		2106	0.7
	1701	1.1			
	2303	0.7			
3 SU	0606	1.4	**18** MO	0600	1.3
	1259	0.9		2021	0.6
	1637	1.0			
	2230	0.7			
4 MO	0650	1.3	**19** TU	0430	1.2
	2022	0.7		0709	1.2
				1155	1.3
				2010	0.6
5 TU	1028	1.3	**20** WE	0319	1.2
	1959	0.6		0710	1.0
				1251	1.4
				2010	0.6
6 WE	0319	1.1	**21** TH	0239	1.2
	0530	1.0		0727	0.9
	1216	1.5		1324	1.5
	2004	0.4		2016	0.5
7 TH	0225	1.1	**22** FR	0229	1.3
	0642	0.9		0748	0.8
	1306	1.6		1351	1.6
	2020	0.3		2026	0.5
8 FR	0228	1.3	**23** SA	0235	1.4
	0725	0.8		0810	0.7
	1346	1.8		1416	1.7
	2042	0.3		2039	0.5
9 SA	0246	1.4	**24** SU	0246	1.5
	0804	0.6		0833	0.7
	1424	1.9		1439	1.7
	2106	0.3		2054	0.5
10 SU	0310	1.5	**25** MO	0300	1.6
	0844	0.5		0857	0.6
	1501	1.9		1502	1.6
	2131	0.3		2108	0.5
11 MO	0337	1.6	**26** TU	0317	1.6
	0923	0.5		0922	0.5
	1537	1.8		1525	1.6
	2156	0.3		2123	0.5
12 TU	0405	1.7	**27** WE	0336	1.7
	1002	0.4		0948	0.5
	1610	1.7		1547	1.5
	2216	0.4		2139	0.5
13 WE	0433	1.7	**28** TH	0356	1.7
	1040	0.5		1016	0.5
	1639	1.5		1610	1.4
	2231	0.5		2154	0.6
14 TH	0458	1.7	**29** FR	0418	1.7
	1118	0.6		1046	0.6
	1701	1.3		1632	1.3
	2237	0.6		2208	0.6
15 FR	0521	1.6	**30** SA	0441	1.7
	1155	0.7		1118	0.6
	1705	1.1		1648	1.2
	2228	0.7		2216	0.7
			31 SU	0503	1.6
				1157	0.7
				1655	1.0
				2209	0.8

APRIL

	Time	m		Time	m
1 MO	0528	1.5	**16** TU	0528	1.4
	1306	0.9		1918	0.7
	1630	0.9			
	2120	0.8			
2 TU	0605	1.4	**17** WE	0346	1.2
	1913	0.7		0654	1.2
				1045	1.3
				1909	0.7
3 WE	0947	1.3	**18** TH	0225	1.2
	1909	0.6		0649	1.1
				1206	1.4
				1911	0.7
4 TH	0222	1.2	**19** FR	0146	1.3
	0540	1.1		0707	1.0
	1149	1.5		1246	1.4
	1920	0.5		1920	0.6
5 FR	0145	1.3	**20** SA	0143	1.4
	0636	0.9		0729	0.8
	1243	1.6		1318	1.5
	1938	0.4		1933	0.6
6 SA	0152	1.4	**21** SU	0151	1.5
	0716	0.8		0753	0.7
	1325	1.7		1346	1.5
	2000	0.4		1947	0.6
7 SU	0211	1.6	**22** MO	0204	1.6
	0756	0.6		0817	0.7
	1405	1.8		1412	1.5
	2024	0.4		2002	0.6
8 MO	0236	1.7	**23** TU	0220	1.7
	0835	0.5		0842	0.6
	1443	1.7		1438	1.5
	2048	0.4		2019	0.6
9 TU	0302	1.8	**24** WE	0239	1.8
	0914	0.4		0910	0.5
	1519	1.6		1505	1.4
	2111	0.5		2037	0.6
10 WE	0330	1.9	**25** TH	0301	1.8
	0954	0.4		0939	0.5
	1554	1.5		1533	1.3
	2130	0.6		2057	0.6
11 TH	0357	1.9	**26** FR	0326	1.8
	1032	0.4		1010	0.5
	1625	1.3		1603	1.3
	2142	0.7		2117	0.7
12 FR	0423	1.8	**27** SA	0353	1.8
	1110	0.5		1045	0.5
	1650	1.1		1634	1.2
	2144	0.7		2134	0.7
13 SA	0446	1.7	**28** SU	0421	1.8
	1148	0.7		1125	0.6
	1702	1.0		1708	1.1
	2135	0.8		2144	0.8
14 SU	0506	1.6	**29** MO	0451	1.7
	1234	0.8		1218	0.7
	1644	0.9		1758	1.0
	2109	0.8		2136	0.9
15 MO	0522	1.5	**30** TU	0526	1.6
	2001	0.8		1413	0.8

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56340

PAPUA NEW GUINEA - ANEWA BAY

LAT 6° 11´ S LONG 155° 33´ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

MAY

	Time	m		Time	m
1 WE	0624	1.5	**16** TH	0812	1.3
	1651	0.7		1705	0.8
2 TH	0904	1.4	**17** FR	0102	1.2
	1745	0.7		0551	1.1
				1037	1.3
				1737	0.8
3 FR	0055	1.3	**18** SA	0038	1.3
	0516	1.1		0636	1.0
	1103	1.4		1149	1.3
	1816	0.6		1802	0.8
4 SA	0052	1.4	**19** SU	0046	1.5
	0619	0.9		0708	0.9
	1210	1.5		1236	1.3
	1843	0.6		1824	0.7
5 SU	0109	1.6	**20** MO	0101	1.6
	0705	0.8		0736	0.8
	1300	1.5		1314	1.3
	1910	0.6		1845	0.7
6 MO	0133	1.7	**21** TU	0120	1.7
	0748	0.6		0805	0.7
	1345	1.5		1349	1.3
	1938	0.6		1908	0.7
7 TU	0200	1.8	**22** WE	0142	1.7
	0829	0.5		0833	0.6
	1427	1.4		1423	1.3
	2004	0.6		1932	0.7
8 WE	0230	1.9	**23** TH	0207	1.8
	0909	0.4		0905	0.5
	1508	1.4		1457	1.2
	2028	0.7		1959	0.7
9 TH	0300	1.9	**24** FR	0237	1.8
	0950	0.4		0938	0.5
	1546	1.2		1533	1.2
	2048	0.7		2026	0.7
10 FR	0330	1.9	**25** SA	0308	1.9
	1029	0.4		1016	0.5
	1623	1.1		1612	1.1
	2102	0.8		2055	0.8
11 SA	0400	1.8	**26** SU	0344	1.8
	1109	0.5		1057	0.5
	1657	1.0		1656	1.1
	2109	0.8		2124	0.8
12 SU	0428	1.8	**27** MO	0421	1.8
	1150	0.6		1144	0.5
	1730	1.0		1748	1.0
	2110	0.9		2152	0.9
13 MO	0456	1.6	**28** TU	0500	1.7
	1239	0.7		1241	0.6
	1814	0.9		1859	1.0
	2058	0.9		2220	1.0
14 TU	0526	1.5	**29** WE	0546	1.6
	1358	0.8		1352	0.7
				2108	1.1
				2301	1.0
15 WE	0607	1.4	**30** TH	0644	1.5
	1600	0.8		1508	0.7
				2253	1.2
			31 FR	0135	1.1
				0815	1.4
				1611	0.7
				2324	1.3

JUNE

	Time	m		Time	m
1 SA	0443	1.1	**16** SU	0559	1.0
	1004	1.3		1010	1.1
	1700	0.7		1610	0.8
	2354	1.5		2335	1.4
2 SU	0607	0.9	**17** MO	0659	0.9
	1137	1.3		1153	1.1
	1740	0.7		1658	0.8
3 MO	0025	1.6	**18** TU	0007	1.5
	0703	0.7		0734	0.7
	1244	1.2		1257	1.1
	1816	0.7		1740	0.8
4 TU	0057	1.7	**19** WE	0038	1.6
	0750	0.6		0805	0.6
	1338	1.2		1345	1.1
	1851	0.7		1820	0.8
5 WE	0131	1.8	**20** TH	0112	1.7
	0831	0.5		0836	0.5
	1426	1.2		1425	1.1
	1923	0.8		1859	0.8
6 TH	0206	1.9	**21** FR	0147	1.8
	0912	0.4		0909	0.4
	1511	1.1		1505	1.1
	1954	0.8		1938	0.8
7 FR	0241	1.9	**22** SA	0225	1.8
	0952	0.4		0945	0.4
	1552	1.1		1544	1.1
	2022	0.8		2019	0.8
8 SA	0316	1.9	**23** SU	0305	1.9
	1030	0.4		1023	0.4
	1631	1.1		1624	1.1
	2047	0.8		2100	0.8
9 SU	0351	1.8	**24** MO	0346	1.9
	1107	0.5		1102	0.4
	1708	1.0		1707	1.1
	2112	0.9		2141	0.8
10 MO	0424	1.7	**25** TU	0427	1.8
	1144	0.5		1143	0.4
	1745	1.0		1752	1.1
	2139	0.9		2225	0.8
11 TU	0457	1.7	**26** WE	0507	1.8
	1219	0.6		1223	0.5
	1826	1.0		1840	1.2
	2211	0.9		2312	0.9
12 WE	0530	1.6	**27** TH	0546	1.6
	1256	0.7		1303	0.6
	1921	1.1		1936	1.2
	2255	1.0			
13 TH	0605	1.4	**28** FR	0011	1.0
	1337	0.7		0627	1.5
	2040	1.1		1343	0.6
				2039	1.3
14 FR	0008	1.1	**29** SA	0142	1.0
	0648	1.3		0717	1.3
	1426	0.8		1426	0.7
	2205	1.2		2148	1.4
15 SA	0302	1.1	**30** SU	0414	1.0
	0806	1.2		0849	1.1
	1519	0.8		1516	0.8
	2257	1.3		2250	1.5

JULY

	Time	m		Time	m
1 MO	0634	0.9	**16** TU	0748	0.8
	1122	1.0		1150	0.9
	1616	0.8		1436	0.9
	2344	1.6		2311	1.4
2 TU	0735	0.7	**17** WE	0757	0.7
	1305	1.0		1337	0.9
	1719	0.9		1634	0.9
3 WE	0031	1.7	**18** TH	0009	1.5
	0813	0.5		0817	0.6
	1406	1.0		1413	1.0
	1815	0.9		1755	0.9
4 TH	0114	1.7	**19** FR	0057	1.6
	0847	0.4		0841	0.5
	1449	1.0		1442	1.1
	1905	0.9		1853	0.8
5 FR	0155	1.8	**20** SA	0140	1.7
	0920	0.4		0908	0.4
	1526	1.1		1510	1.1
	1948	0.8		1942	0.8
6 SA	0235	1.8	**21** SU	0222	1.8
	0952	0.4		0939	0.3
	1558	1.1		1541	1.2
	2027	0.8		2027	0.7
7 SU	0312	1.8	**22** MO	0303	1.9
	1022	0.4		1011	0.3
	1627	1.1		1614	1.2
	2101	0.8		2110	0.7
8 MO	0346	1.8	**23** TU	0342	1.9
	1050	0.4		1043	0.3
	1654	1.1		1648	1.3
	2134	0.8		2153	0.7
9 TU	0416	1.7	**24** WE	0420	1.9
	1116	0.5		1114	0.3
	1719	1.2		1723	1.3
	2207	0.8		2236	0.7
10 WE	0445	1.7	**25** TH	0456	1.7
	1140	0.5		1142	0.4
	1746	1.2		1800	1.3
	2242	0.9		2320	0.8
11 TH	0511	1.6	**26** FR	0529	1.6
	1202	0.6		1207	0.5
	1816	1.2		1838	1.4
	2322	0.9			
12 FR	0536	1.5	**27** SA	0010	0.8
	1225	0.6		0557	1.3
	1853	1.3		1224	0.6
				1922	1.4
13 SA	0009	0.9	**28** SU	0117	0.9
	0557	1.3		0610	1.1
	1248	0.7		1232	0.7
	1940	1.3		2020	1.4
14 SU	0116	1.0	**29** MO	0413	0.9
	0613	1.2		0514	0.9
	1313	0.7		1218	0.8
	2040	1.3		2142	1.4
15 MO	1343	0.8	**30** TU	0817	0.7
	2156	1.4		2316	1.5
			31 WE	0821	0.6

AUGUST

	Time	m		Time	m
1 TH	0025	1.5	**16** FR	0811	0.5
	0835	0.5		1435	1.1
	1519	1.0		1808	0.9
	1830	0.9			
2 FR	0115	1.6	**17** SA	0052	1.6
	0853	0.4		0827	0.4
	1509	1.1		1436	1.1
	1924	0.9		1904	0.8
3 SA	0156	1.7	**18** SU	0135	1.7
	0913	0.4		0848	0.3
	1522	1.1		1453	1.2
	2003	0.8		1947	0.7
4 SU	0232	1.7	**19** MO	0214	1.8
	0934	0.4		0914	0.3
	1540	1.2		1517	1.3
	2037	0.8		2027	0.6
5 MO	0304	1.8	**20** TU	0251	1.9
	0955	0.4		0941	0.2
	1600	1.2		1544	1.4
	2107	0.7		2108	0.6
6 TU	0332	1.8	**21** WE	0328	1.9
	1016	0.4		1007	0.3
	1619	1.3		1614	1.5
	2135	0.7		2149	0.5
7 WE	0357	1.7	**22** TH	0404	1.8
	1035	0.4		1033	0.3
	1638	1.3		1644	1.5
	2204	0.7		2230	0.6
8 TH	0420	1.6	**23** FR	0437	1.6
	1052	0.5		1054	0.4
	1659	1.4		1715	1.5
	2234	0.7		2312	0.6
9 FR	0442	1.5	**24** SA	0506	1.4
	1108	0.5		1109	0.5
	1722	1.4		1745	1.5
	2307	0.7		2357	0.7
10 SA	0502	1.4	**25** SU	0524	1.2
	1123	0.6		1113	0.6
	1748	1.4		1816	1.5
	2343	0.8			
11 SU	0517	1.3	**26** MO	0052	0.8
	1137	0.6		0513	1.0
	1818	1.4		1054	0.7
				1854	1.4
12 MO	0026	0.9	**27** TU	0945	0.7
	0520	1.1		2019	1.3
	1144	0.7			
	1856	1.4			
13 TU	0139	0.9	**28** WE	0820	0.6
	0452	1.0		2317	1.3
	1128	0.8			
	2006	1.3			
14 WE	0846	0.8	**29** TH	0816	0.5
	2216	1.3		1550	1.1
				1817	1.1
15 TH	0805	0.6	**30** FR	0033	1.4
	2357	1.4		0822	0.5
				1504	1.1
				1907	0.9
			31 SA	0117	1.5
				0832	0.4
				1448	1.2
				1939	0.8

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56340

PAPUA NEW GUINEA - ANEWA BAY

LAT 6° 11´ S LONG 155° 33´ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

SEPTEMBER

	Time	m		Time	m
1 SU	0150 1.6 0844 0.4 1453 1.3 2006 0.7		**16** MO	0119 1.7 0813 0.3 1421 1.4 1942 0.6	
2 MO	0219 1.7 0859 0.4 1506 1.3 2033 0.7		**17** TU	0156 1.8 0836 0.3 1443 1.5 2020 0.5	
3 TU	0245 1.7 0915 0.4 1521 1.4 2058 0.6		**18** WE	0233 1.8 0901 0.3 1509 1.6 2100 0.4	
4 WE	0309 1.7 0931 0.4 1537 1.5 2123 0.6		**19** TH	0310 1.7 0925 0.3 1537 1.7 2140 0.4	
5 TH	0331 1.6 0946 0.4 1554 1.5 2149 0.6		**20** FR	0345 1.6 0947 0.4 1605 1.7 2220 0.4	
6 FR	0353 1.5 1001 0.5 1613 1.6 2217 0.6		**21** SA	0418 1.4 1004 0.5 1633 1.7 2301 0.5	
7 SA	0413 1.4 1015 0.5 1634 1.6 2246 0.6		**22** SU	0446 1.2 1012 0.6 1659 1.7 2344 0.6	
8 SU	0432 1.3 1027 0.5 1656 1.6 2317 0.7		**23** MO	0500 1.0 1003 0.7 1722 1.6	
9 MO	0446 1.2 1037 0.6 1718 1.5 2353 0.7		**24** TU	0036 0.7 0437 0.8 0930 0.7 1741 1.4	
10 TU	0448 1.0 1034 0.7 1742 1.4		**25** WE	0820 0.6 1750 1.3	
11 WE	0048 0.8 0421 0.9 0959 0.7 1816 1.3		**26** TH	0742 0.6 1603 1.2 1846 1.2 2316 1.3	
12 TH	0800 0.7 2129 1.3		**27** FR	0740 0.5 1454 1.2 1853 1.0	
13 FR	0736 0.6 1514 1.1 1707 1.1 2347 1.4		**28** SA	0024 1.4 0744 0.5 1417 1.2 1911 0.9	
14 SA	0741 0.5 1409 1.1 1822 0.9		**29** SU	0101 1.5 0751 0.5 1409 1.3 1933 0.8	
15 SU	0038 1.6 0754 0.4 1407 1.2 1903 0.8		**30** MO	0129 1.5 0801 0.4 1415 1.4 1956 0.7	

OCTOBER

	Time	m		Time	m
1 TU	0156 1.6 0815 0.4 1426 1.5 2019 0.6		**16** WE	0136 1.6 0753 0.3 1407 1.6 2012 0.4	
2 WE	0220 1.6 0828 0.4 1440 1.6 2044 0.5		**17** TH	0215 1.6 0818 0.4 1435 1.8 2052 0.3	
3 TH	0243 1.5 0843 0.5 1455 1.6 2108 0.5		**18** FR	0254 1.5 0841 0.4 1503 1.8 2133 0.3	
4 FR	0306 1.5 0857 0.5 1514 1.7 2135 0.5		**19** SA	0331 1.3 0903 0.5 1532 1.8 2213 0.3	
5 SA	0329 1.4 0912 0.5 1534 1.7 2202 0.5		**20** SU	0407 1.2 0918 0.6 1601 1.8 2255 0.4	
6 SU	0352 1.3 0927 0.5 1555 1.7 2231 0.5		**21** MO	0438 1.0 0922 0.6 1628 1.7 2339 0.5	
7 MO	0413 1.2 0940 0.6 1618 1.6 2303 0.6		**22** TU	0502 0.9 0910 0.7 1652 1.6	
8 TU	0432 1.0 0948 0.6 1640 1.6 2342 0.7		**23** WE	0036 0.6 0459 0.8 0837 0.7 1711 1.4	
9 WE	0440 0.9 0941 0.7 1704 1.5		**24** TH	0652 0.7 1718 1.3	
10 TH	0047 0.8 0420 0.8 0854 0.7 1735 1.4		**25** FR	0638 0.6 1516 1.2 1841 1.1 2206 1.2	
11 FR	0646 0.7 2043 1.3		**26** SA	0640 0.6 1403 1.2 1839 1.0 2342 1.2	
12 SA	0640 0.6 1412 1.1 1717 1.1 2312 1.3		**27** SU	0645 0.6 1327 1.2 1857 0.9	
13 SU	0650 0.5 1324 1.2 1814 0.9		**28** MO	0026 1.3 0655 0.6 1324 1.4 1920 0.7	
14 MO	0011 1.5 0707 0.4 1327 1.4 1853 0.7		**29** TU	0059 1.3 0708 0.5 1332 1.5 1943 0.6	
15 TU	0055 1.6 0729 0.3 1344 1.5 1932 0.6		**30** WE	0129 1.3 0723 0.5 1345 1.6 2007 0.5	
			31 TH	0156 1.3 0738 0.5 1401 1.6 2032 0.5	

NOVEMBER

	Time	m		Time	m
1 FR	0222 1.3 0754 0.5 1420 1.7 2058 0.4		**16** SA	0247 1.2 0803 0.5 1438 1.9 2132 0.2	
2 SA	0249 1.2 0812 0.5 1441 1.7 2126 0.4		**17** SU	0329 1.1 0826 0.6 1511 1.9 2214 0.3	
3 SU	0316 1.2 0831 0.5 1505 1.7 2156 0.4		**18** MO	0409 1.0 0845 0.6 1544 1.8 2257 0.3	
4 MO	0345 1.1 0851 0.6 1531 1.7 2229 0.4		**19** TU	0449 0.9 0856 0.7 1615 1.7 2341 0.4	
5 TU	0416 1.0 0909 0.6 1559 1.7 2308 0.5		**20** WE	0529 0.8 0858 0.7 1646 1.6	
6 WE	0449 0.9 0922 0.7 1628 1.6 2356 0.6		**21** TH	0030 0.5 0625 0.8 0846 0.8 1716 1.4	
7 TH	0537 0.8 0919 0.7 1701 1.5		**22** FR	0138 0.6 1746 1.3	
8 FR	0119 0.6 1744 1.4		**23** SA	0316 0.7 1848 1.2	
9 SA	0348 0.6 1948 1.3		**24** SU	0428 0.7 1306 1.1 1806 1.0 2156 1.1	
10 SU	0502 0.6 1246 1.1 1641 1.0 2211 1.3		**25** MO	0508 0.7 1227 1.2 1842 0.9 2330 1.1	
11 MO	0540 0.5 1230 1.3 1757 0.9 2335 1.3		**26** TU	0537 0.7 1234 1.3 1910 0.8	
12 TU	0610 0.5 1245 1.4 1844 0.7		**27** WE	0025 1.1 0601 0.6 1249 1.5 1938 0.6	
13 WE	0032 1.3 0639 0.5 1308 1.6 1927 0.5		**28** TH	0106 1.1 0625 0.6 1308 1.6 2004 0.5	
14 TH	0120 1.3 0708 0.5 1335 1.7 2009 0.4		**29** FR	0142 1.1 0648 0.6 1330 1.6 2031 0.4	
15 FR	0204 1.3 0736 0.5 1406 1.8 2050 0.3		**30** SA	0215 1.1 0713 0.6 1354 1.7 2059 0.4	

DECEMBER

	Time	m		Time	m
1 SU	0247 1.1 0740 0.6 1422 1.7 2130 0.3		**16** MO	0341 1.0 0813 0.7 1504 1.8 2219 0.2	
2 MO	0320 1.0 0808 0.6 1453 1.7 2204 0.3		**17** TU	0420 1.0 0844 0.7 1541 1.8 2255 0.3	
3 TU	0356 1.0 0837 0.6 1527 1.7 2240 0.3		**18** WE	0455 0.9 0913 0.7 1615 1.7 2330 0.4	
4 WE	0435 1.0 0907 0.7 1601 1.7 2321 0.4		**19** TH	0530 0.9 0940 0.7 1646 1.6	
5 TH	0519 0.9 0937 0.7 1637 1.6		**20** FR	0001 0.4 0605 0.9 1009 0.8 1714 1.5	
6 FR	0006 0.4 0616 0.9 1007 0.8 1714 1.5		**21** SA	0031 0.5 0646 1.0 1044 0.8 1738 1.4	
7 SA	0100 0.5 0736 0.9 1046 0.9 1756 1.4		**22** SU	0100 0.6 0743 1.0 1134 0.9 1800 1.2	
8 SU	0204 0.5 0941 1.0 1207 1.0 1854 1.3		**23** MO	0134 0.6 0907 1.1 1314 1.0 1809 1.1	
9 MO	0313 0.6 1050 1.1 1544 1.0 2045 1.1		**24** TU	0217 0.7 1033 1.2	
10 TU	0413 0.6 1127 1.3 1746 0.8 2251 1.0		**25** WE	0315 0.7 1125 1.3 1936 0.8 2355 0.9	
11 WE	0503 0.6 1201 1.4 1852 0.7		**26** TH	0422 0.7 1203 1.4 1956 0.6	
12 TH	0020 1.0 0546 0.6 1236 1.6 1939 0.5		**27** FR	0110 0.9 0519 0.7 1237 1.5 2019 0.5	
13 FR	0122 1.0 0626 0.6 1312 1.7 2021 0.3		**28** SA	0155 0.9 0608 0.7 1309 1.6 2043 0.4	
14 SA	0213 1.0 0704 0.6 1349 1.8 2101 0.2		**29** SU	0230 1.0 0651 0.7 1343 1.6 2109 0.3	
15 SU	0258 1.0 0739 0.6 1427 1.8 2140 0.2		**30** MO	0301 1.0 0731 0.7 1418 1.7 2137 0.3	
			31 TU	0332 1.0 0809 0.6 1454 1.8 2209 0.2	

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56340

PAPUA NEW GUINEA - BOBO (BRISTOW) ISLAND

LAT 9° 06´ S LONG 143° 17´ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

JANUARY

	Time	m		Time	m
1 MO	1358	3.0	**16** TU	0120	2.4
	2108	1.6		0813	1.1
				1424	3.4
				2147	1.1
2 TU	0033	1.9	**17** WE	0257	2.3
	0532	1.5		0932	1.4
	1433	2.8		1508	3.1
	2227	1.6		2253	1.1
3 WE	0134	1.7	**18** TH	0517	2.3
	0359	1.7		1059	1.6
	0838	1.9		1610	2.7
	0935	1.9		2359	1.1
	1515	2.6			
	2336	1.5			
4 TH	0838	2.1	**19** FR	0707	2.6
	1112	2.0		1245	1.7
	1618	2.5		1809	2.4
5 FR	0027	1.3	**20** SA	0105	1.0
	0843	2.4		0810	3.0
	1242	2.0		1419	1.5
	1752	2.4		1939	2.3
6 SA	0107	1.2	**21** SU	0203	0.8
	0846	2.6		0857	3.3
	1359	1.8		1519	1.3
	1900	2.4		2032	2.3
7 SU	0143	1.0	**22** MO	0254	0.7
	0858	2.9		0937	3.5
	1450	1.6		1602	1.1
	1942	2.4		2108	2.4
8 MO	0219	0.8	**23** TU	0336	0.6
	0920	3.1		1013	3.6
	1530	1.4		1637	1.0
	2013	2.5		2130	2.4
9 TU	0254	0.7	**24** WE	0413	0.5
	0948	3.4		1045	3.6
	1606	1.2		1707	1.0
	2043	2.6		2144	2.4
10 WE	0331	0.5	**25** TH	0443	0.5
	1022	3.6		1111	3.6
	1642	1.0		1732	1.0
	2116	2.7		2203	2.5
11 TH	0409	0.4	**26** FR	0506	0.6
	1100	3.8		1134	3.6
	1720	1.0		1753	1.1
	2153	2.7		2227	2.5
12 FR	0448	0.3	**27** SA	0521	0.7
	1141	3.9		1155	3.5
	1801	0.9		1810	1.2
	2235	2.7		2253	2.5
13 SA	0529	0.4	**28** SU	0532	0.8
	1223	3.9		1216	3.4
	1847	1.0		1829	1.3
	2321	2.6		2320	2.4
14 SU	0614	0.5	**29** MO	0539	1.0
	1304	3.8		1237	3.2
	1941	1.1		1853	1.3
				2348	2.3
15 MO	0015	2.5	**30** TU	0541	1.2
	0706	0.7		1254	3.1
	1344	3.7		1924	1.4
	2042	1.1			
			31 WE	0020	2.2
				0543	1.4
				1306	2.9
				2020	1.5

FEBRUARY

	Time	m		Time	m
1 TH	0058	2.1	**16** FR	0421	2.5
	0547	1.6		1051	1.9
	1317	2.6		1436	2.2
	2142	1.5		2316	1.3
2 FR	0153	2.0	**17** SA	0712	2.7
	0526	1.9		1354	1.7
	1329	2.4		1918	2.0
	2253	1.5			
3 SA	0905	2.3	**18** SU	0051	1.2
	1247	2.1		0811	3.1
	1319	2.1		1454	1.3
				2019	2.2
4 SU	0005	1.4	**19** MO	0201	1.0
	0843	2.6		0854	3.4
	1453	1.8		1527	1.0
	1904	2.0		2059	2.3
5 MO	0113	1.2	**20** TU	0251	0.8
	0841	2.9		0930	3.5
	1500	1.5		1556	0.9
	1947	2.2		2129	2.4
6 TU	0207	1.0	**21** WE	0330	0.7
	0902	3.2		1001	3.6
	1526	1.2		1622	0.8
	2017	2.4		2147	2.5
7 WE	0251	0.7	**22** TH	0401	0.6
	0932	3.5		1026	3.6
	1556	1.0		1644	0.8
	2046	2.6		2151	2.6
8 TH	0330	0.4	**23** FR	0425	0.5
	1007	3.8		1045	3.6
	1629	0.8		1702	0.8
	2117	2.8		2158	2.7
9 FR	0407	0.2	**24** SA	0441	0.6
	1044	4.0		1101	3.6
	1703	0.6		1716	0.9
	2153	2.9		2216	2.7
10 SA	0443	0.1	**25** SU	0453	0.6
	1121	4.1		1116	3.5
	1740	0.6		1728	0.9
	2233	3.0		2240	2.7
11 SU	0519	0.1	**26** MO	0503	0.8
	1156	4.1		1131	3.4
	1819	0.7		1741	1.0
	2318	3.0		2305	2.7
12 MO	0557	0.3	**27** TU	0512	0.9
	1228	3.9		1142	3.2
	1904	0.8		1752	1.1
				2332	2.6
13 TU	0007	2.9	**28** WE	0520	1.2
	0639	0.7		1151	3.0
	1257	3.6		1758	1.1
	1954	0.9			
14 WE	0102	2.7	**29** TH	0002	2.5
	0734	1.1		0530	1.4
	1326	3.2		1201	2.9
	2052	1.1		1806	1.2
15 TH	0211	2.6			
	0857	1.6			
	1356	2.7			
	2157	1.2			

MARCH

	Time	m		Time	m
1 FR	0036	2.4	**16** SA	0338	2.7
	0544	1.7		1611	1.7
	1213	2.6		1846	1.8
	1819	1.3		2243	1.5
2 SA	0119	2.3	**17** SU	0653	2.9
	0559	1.9		1446	1.4
	1221	2.4		1948	2.1
	1833	1.5			
3 SU	0252	2.2	**18** MO	0039	1.4
	0349	2.2		0750	3.2
	0857	2.4		1449	1.1
	1713	1.6		2025	2.3
	2040	1.7			
	2314	1.6			
4 MO	0809	2.6	**19** TU	0148	1.2
	1531	1.6		0831	3.3
	1938	1.9		1510	0.9
				2055	2.5
5 TU	0058	1.4	**20** WE	0233	1.0
	0808	2.9		0904	3.5
	1450	1.3		1533	0.8
	1957	2.2		2119	2.6
6 WE	0157	1.1	**21** TH	0308	0.8
	0834	3.3		0931	3.5
	1509	1.0		1554	0.7
	2020	2.5		2136	2.7
7 TH	0239	0.7	**22** FR	0335	0.7
	0906	3.6		0950	3.5
	1536	0.7		1612	0.7
	2044	2.8		2143	2.8
8 FR	0317	0.4	**23** SA	0355	0.7
	0940	3.9		1004	3.5
	1607	0.5		1626	0.7
	2112	3.0		2152	2.9
9 SA	0351	0.1	**24** SU	0411	0.7
	1014	4.1		1017	3.5
	1638	0.4		1637	0.7
	2146	3.2		2210	2.9
10 SU	0425	0.1	**25** MO	0426	0.8
	1045	4.1		1030	3.4
	1711	0.4		1648	0.7
	2225	3.3		2232	2.9
11 MO	0500	0.1	**26** TU	0441	0.9
	1114	4.0		1040	3.3
	1745	0.4		1656	0.8
	2309	3.3		2256	2.9
12 TU	0536	0.4	**27** WE	0455	1.1
	1140	3.7		1049	3.1
	1820	0.6		1702	0.8
	2357	3.2		2322	2.9
13 WE	0618	0.8	**28** TH	0508	1.3
	1204	3.4		1100	2.9
	1901	0.8		1708	0.9
				2350	2.9
14 TH	0049	3.1	**29** FR	0524	1.5
	0718	1.3		1116	2.8
	1228	2.9		1718	1.0
	1954	1.1			
15 FR	0152	2.9	**30** SA	0025	2.8
	0848	1.8		0548	1.8
	1247	2.4		1134	2.5
	2106	1.3		1731	1.2
			31 SU	0112	2.6
				0620	2.1
				1143	2.3
				1731	1.4

APRIL

	Time	m		Time	m
1 MO	0255	2.5	**16** TU	0006	1.6
	1612	1.6		0706	3.1
	2050	1.8		1422	1.0
	2255	1.7		2008	2.4
2 TU	0622	2.7	**17** WE	0115	1.4
	1427	1.5		0749	3.2
	1940	2.0		1441	0.9
				2035	2.5
3 WE	0038	1.5	**18** TH	0200	1.2
	0716	3.0		0820	3.3
	1418	1.2		1501	0.8
	1949	2.4		2058	2.7
4 TH	0135	1.1	**19** FR	0234	1.1
	0755	3.4		0843	3.3
	1441	0.8		1519	0.7
	2010	2.7		2116	2.8
5 FR	0217	0.7	**20** SA	0301	1.0
	0829	3.7		0858	3.3
	1509	0.6		1534	0.7
	2035	3.0		2131	2.9
6 SA	0255	0.5	**21** SU	0324	0.9
	0902	3.9		0914	3.3
	1539	0.4		1547	0.6
	2104	3.2		2148	3.0
7 SU	0331	0.3	**22** MO	0345	1.0
	0932	4.0		0930	3.2
	1609	0.2		1559	0.6
	2138	3.4		2210	3.1
8 MO	0406	0.3	**23** TU	0408	1.0
	0959	3.9		0943	3.1
	1639	0.2		1610	0.6
	2218	3.5		2233	3.1
9 TU	0444	0.4	**24** WE	0432	1.2
	1025	3.7		0954	3.0
	1708	0.3		1618	0.6
	2303	3.6		2257	3.2
10 WE	0526	0.7	**25** TH	0456	1.3
	1052	3.4		1007	2.9
	1738	0.5		1625	0.7
	2351	3.5		2321	3.2
11 TH	0617	1.1	**26** FR	0519	1.5
	1118	3.0		1026	2.8
	1810	0.8		1636	0.8
				2351	3.1
12 FR	0043	3.3	**27** SA	0548	1.7
	0723	1.5		1050	2.6
	1142	2.5		1652	0.9
	1856	1.1			
13 SA	0143	3.1	**28** SU	0031	3.0
	0852	1.8		0638	1.9
	1155	2.1		1117	2.4
	2028	1.4		1711	1.2
14 SU	0307	2.9	**29** MO	0131	2.9
	1509	1.5		0915	2.0
	1902	1.8		1142	2.1
	2214	1.6		1718	1.4
15 MO	0553	2.9	**30** TU	0311	2.8
	1417	1.3		1528	1.6
	1938	2.1		1916	1.8
				2239	1.7

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I

SEE CHAPTER 5

55445

PAPUA NEW GUINEA - BOBO (BRISTOW) ISLAND

LAT 9° 06´ S LONG 143° 17´ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

MAY

	Time	m		Time	m
1 WE	0506	2.9	**16** TH	0017	1.6
	1308	1.4		0631	2.9
	1901	2.1		1405	1.1
				2014	2.4
2 TH	0005	1.4	**17** FR	0110	1.5
	0618	3.2		0710	3.0
	1336	1.1		1424	0.9
	1925	2.5		2039	2.6
3 FR	0103	1.2	**18** SA	0151	1.4
	0707	3.4		0738	3.0
	1407	0.8		1440	0.8
	1954	2.8		2100	2.7
4 SA	0150	0.9	**19** SU	0226	1.3
	0745	3.6		0804	3.0
	1439	0.5		1454	0.7
	2024	3.1		2120	2.9
5 SU	0233	0.7	**20** MO	0258	1.3
	0818	3.6		0828	3.0
	1510	0.3		1509	0.7
	2058	3.4		2142	3.1
6 MO	0314	0.7	**21** TU	0330	1.3
	0848	3.6		0849	2.9
	1540	0.2		1524	0.6
	2136	3.6		2207	3.2
7 TU	0357	0.7	**22** WE	0403	1.3
	0917	3.5		0905	2.8
	1610	0.2		1539	0.6
	2219	3.7		2233	3.3
8 WE	0442	0.8	**23** TH	0436	1.3
	0947	3.3		0922	2.8
	1639	0.3		1553	0.6
	2304	3.7		2300	3.4
9 TH	0531	1.0	**24** FR	0511	1.4
	1017	3.0		0943	2.7
	1709	0.5		1608	0.6
	2351	3.7		2329	3.4
10 FR	0625	1.3	**25** SA	0548	1.5
	1048	2.6		1011	2.6
	1744	0.8		1630	0.8
11 SA	0040	3.5	**26** SU	0005	3.4
	0726	1.5		0634	1.6
	1117	2.3		1045	2.5
	1835	1.1		1701	0.9
12 SU	0132	3.3	**27** MO	0050	3.3
	0842	1.7		0736	1.7
	1139	1.9		1125	2.3
	2000	1.4		1743	1.2
13 MO	0233	3.1	**28** TU	0148	3.2
	1450	1.5		0905	1.7
	1830	1.8		1219	2.0
	2131	1.6		1912	1.4
14 TU	0351	3.0	**29** WE	0257	3.2
	1341	1.4		1047	1.6
	1911	2.0		1418	1.8
	2303	1.7		1501	1.8
				1641	1.9
				2204	1.5
15 WE	0525	2.9	**30** TH	0411	3.2
	1346	1.2		1200	1.3
	1945	2.2		1806	2.2
				2323	1.4
			31 FR	0519	3.2
				1250	1.0
				1856	2.5

JUNE

	Time	m		Time	m
1 SA	0029	1.3	**16** SU	0106	1.8
	0616	3.2		0631	2.6
	1331	0.8		1352	1.0
	1939	2.8		2053	2.7
2 SU	0126	1.2	**17** MO	0204	1.7
	0702	3.2		0719	2.6
	1408	0.6		1412	0.9
	2020	3.1		2112	2.9
3 MO	0221	1.1	**18** TU	0250	1.6
	0742	3.2		0755	2.6
	1444	0.4		1434	0.8
	2101	3.4		2133	3.1
4 TU	0313	1.0	**19** WE	0329	1.4
	0818	3.1		0823	2.6
	1519	0.3		1459	0.7
	2143	3.6		2158	3.3
5 WE	0404	1.0	**20** TH	0404	1.3
	0852	3.0		0845	2.6
	1554	0.4		1524	0.6
	2226	3.7		2226	3.4
6 TH	0453	1.0	**21** FR	0439	1.3
	0927	2.8		0909	2.6
	1630	0.4		1551	0.6
	2308	3.8		2257	3.5
7 FR	0540	1.1	**22** SA	0514	1.2
	1001	2.6		0937	2.6
	1708	0.6		1622	0.6
	2351	3.7		2332	3.6
8 SA	0626	1.2	**23** SU	0551	1.2
	1036	2.4		1012	2.6
	1747	0.8		1657	0.6
9 SU	0032	3.6	**24** MO	0011	3.6
	0712	1.4		0634	1.3
	1110	2.2		1053	2.5
	1830	1.0		1738	0.7
10 MO	0113	3.4	**25** TU	0053	3.6
	0803	1.5		0728	1.3
	1143	2.0		1141	2.4
	1919	1.3		1828	0.9
11 TU	0154	3.2	**26** WE	0138	3.5
	0911	1.6		0835	1.4
	1218	1.8		1241	2.2
	2019	1.5		1941	1.1
12 WE	0238	3.0	**27** TH	0226	3.4
	1108	1.6		0950	1.3
	1319	1.7		1410	2.1
	1445	1.7		2117	1.3
	1843	1.8			
	2129	1.7			
13 TH	0327	2.9	**28** FR	0317	3.2
	1244	1.5		1059	1.2
	1933	2.0		1654	2.2
	2243	1.8		2240	1.5
14 FR	0425	2.8	**29** SA	0415	3.0
	1313	1.3		1200	1.0
	2007	2.2		1829	2.5
	2357	1.8			
15 SA	0530	2.7	**30** SU	0000	1.6
	1334	1.2		0524	2.9
	2033	2.4		1254	0.9
				1934	2.8

JULY

	Time	m		Time	m
1 MO	0121	1.5	**16** TU	0231	1.9
	0638	2.7		0658	2.2
	1344	0.7		1331	1.1
	2026	3.1		2105	2.8
2 TU	0233	1.4	**17** WE	0306	1.7
	0737	2.6		0746	2.2
	1430	0.6		1410	1.0
	2111	3.4		2121	3.1
3 WE	0330	1.2	**18** TH	0334	1.4
	0823	2.6		0817	2.3
	1515	0.5		1447	0.8
	2153	3.6		2144	3.3
4 TH	0418	1.1	**19** FR	0401	1.2
	0859	2.5		0843	2.4
	1557	0.5		1523	0.6
	2233	3.7		2214	3.5
5 FR	0500	1.0	**20** SA	0431	1.1
	0931	2.5		0909	2.6
	1636	0.5		1558	0.5
	2310	3.8		2247	3.7
6 SA	0537	1.0	**21** SU	0503	1.0
	1001	2.5		0939	2.7
	1712	0.5		1632	0.4
	2344	3.7		2322	3.8
7 SU	0610	1.1	**22** MO	0538	0.9
	1031	2.4		1016	2.7
	1741	0.7		1707	0.3
				2358	3.9
8 MO	0014	3.6	**23** TU	0617	0.9
	0641	1.2		0757	2.7
	1102	2.4		1743	0.4
	1805	0.8			
9 TU	0042	3.5	**24** WE	0034	3.8
	0711	1.3		0703	1.0
	1134	2.3		1145	2.7
	1823	1.0		1823	0.6
10 WE	0110	3.3	**25** TH	0108	3.7
	0745	1.4		0757	1.1
	1206	2.1		1239	2.5
	1832	1.3		1912	0.9
11 TH	0137	3.1	**26** FR	0141	3.5
	0833	1.5		0858	1.1
	1241	2.0		1346	2.4
	1805	1.5		2029	1.3
12 FR	0205	2.9	**27** SA	0217	3.1
	0938	1.5		1002	1.1
	1331	1.8		1532	2.3
	1724	1.7		2205	1.6
13 SA	0234	2.7	**28** SU	0303	2.7
	1047	1.5		1109	1.1
	2040	2.1		1814	2.5
	2232	2.0		2358	1.8
14 SU	0309	2.4	**29** MO	0441	2.3
	1151	1.4		1223	1.1
	2049	2.3		1941	2.9
15 MO	0031	2.1	**30** TU	0153	1.6
	0512	2.2		0716	2.3
	1246	1.3		1333	0.9
	2058	2.6		2033	3.2
			31 WE	0300	1.3
				0818	2.3
				1431	0.8
				2117	3.5

AUGUST

	Time	m		Time	m
1 TH	0344	1.0	**16** FR	0325	1.3
	0901	2.4		0821	2.3
	1518	0.6		1440	0.9
	2156	3.7		2123	3.4
2 FR	0419	0.9	**17** SA	0346	1.0
	0931	2.5		0842	2.5
	1558	0.5		1516	0.6
	2230	3.7		2153	3.6
3 SA	0451	0.8	**18** SU	0413	0.8
	0948	2.5		0906	2.7
	1632	0.4		1550	0.3
	2300	3.7		2225	3.8
4 SU	0518	0.8	**19** MO	0443	0.7
	1002	2.6		0936	2.9
	1659	0.5		1622	0.1
	2323	3.7		2257	4.0
5 MO	0541	0.9	**20** TU	0515	0.6
	1022	2.6		1012	3.0
	1718	0.6		1655	0.1
	2342	3.6		2328	4.0
6 TU	0600	1.0	**21** WE	0550	0.6
	1048	2.6		1053	3.1
	1730	0.7		1728	0.3
				2356	3.9
7 WE	0001	3.5	**22** TH	0628	0.7
	0616	1.1		1139	3.0
	1116	2.5		1805	0.6
	1738	0.9			
8 TH	0018	3.3	**23** FR	0022	3.7
	0635	1.2		0711	0.8
	1145	2.4		1230	2.9
	1742	1.1		1850	1.0
9 FR	0034	3.1	**24** SA	0049	3.3
	0656	1.3		0805	1.0
	1215	2.3		1330	2.8
	1741	1.4		2005	1.5
10 SA	0044	2.9	**25** SU	0117	2.8
	0715	1.4		0909	1.2
	1248	2.2		1457	2.6
	1740	1.6		2156	1.8
11 SU	0047	2.6	**26** MO	0148	2.3
	0720	1.5		1025	1.3
	1329	2.0		1808	2.7
	1733	1.9			
12 MO	0046	2.4	**27** TU	0116	1.8
	0727	1.6		0649	2.0
	0807	1.6		1205	1.3
	1007	1.6		1938	3.0
	2106	2.4			
13 TU	1132	1.5	**28** WE	0236	1.4
	2059	2.6		0800	2.2
				1331	1.1
				2027	3.3
14 WE	0414	1.7	**29** TH	0307	1.0
	0730	1.9		0842	2.4
	1259	1.4		1427	0.9
	2051	2.8		2107	3.5
15 TH	0323	1.5	**30** FR	0336	0.8
	0758	2.1		0915	2.5
	1358	1.2		1510	0.7
	2100	3.1		2141	3.6
			31 SA	0403	0.7
				0940	2.6
				1545	0.5
				2210	3.7

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55445

PAPUA NEW GUINEA - BOBO (BRISTOW) ISLAND

LAT 9° 06´ S LONG 143° 17´ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

SEPTEMBER

	Time	m		Time	m
1 SU	0428	0.7	**16** MO	0346	0.6
	0952	2.7		0858	3.0
	1613	0.5		1530	0.3
	2231	3.6		2148	3.9
2 MO	0448	0.7	**17** TU	0415	0.4
	0957	2.8		0927	3.2
	1634	0.5		1602	0.2
	2246	3.6		2216	4.0
3 TU	0504	0.8	**18** WE	0445	0.3
	1011	2.8		1004	3.3
	1647	0.6		1636	0.2
	2258	3.5		2243	4.0
4 WE	0516	0.8	**19** TH	0516	0.3
	1034	2.8		1046	3.4
	1657	0.8		1711	0.4
	2311	3.4		2309	3.8
5 TH	0526	0.9	**20** FR	0548	0.5
	1100	2.8		1133	3.4
	1707	1.0		1753	0.7
	2324	3.2		2335	3.4
6 FR	0535	1.0	**21** SA	0623	0.7
	1128	2.7		1224	3.3
	1715	1.2		1848	1.2
	2332	3.0			
7 SA	0540	1.0	**22** SU	0001	3.0
	1156	2.6		0710	0.9
	1723	1.4		1325	3.1
	2340	2.8		2013	1.6
8 SU	0543	1.1	**23** MO	0026	2.5
	1225	2.5		0824	1.2
	1733	1.7		1447	2.9
	2347	2.6		2218	1.9
9 MO	0548	1.2	**24** TU	0034	2.0
	1259	2.4		0957	1.4
	1746	1.9		1736	2.9
	2350	2.4			
10 TU	0551	1.4	**25** WE	0235	1.5
	1357	2.3		0722	2.0
	1739	2.2		1152	1.5
	2052	2.4		1910	3.1
11 WE	0454	1.5	**26** TH	0225	1.1
	0930	1.7		0802	2.3
	1026	1.7		1315	1.3
	2030	2.6		2000	3.4
12 TH	0356	1.5	**27** FR	0247	0.9
	0828	1.9		0835	2.5
	1237	1.6		1408	1.0
	2006	2.8		2039	3.5
13 FR	0258	1.4	**28** SA	0311	0.7
	0804	2.1		0903	2.7
	1340	1.3		1447	0.8
	2022	3.1		2110	3.5
14 SA	0259	1.1	**29** SU	0335	0.7
	0816	2.4		0925	2.8
	1421	0.9		1519	0.7
	2048	3.4		2132	3.5
15 SU	0320	0.8	**30** MO	0356	0.6
	0834	2.7		0940	2.9
	1457	0.5		1544	0.7
	2118	3.7		2147	3.5

OCTOBER

	Time	m		Time	m
1 TU	0413	0.6	**16** WE	0345	0.3
	0950	2.9		0918	3.4
	1604	0.7		1543	0.4
	2157	3.4		2129	3.8
2 WE	0425	0.7	**17** TH	0414	0.2
	1006	3.0		0958	3.6
	1619	0.8		1622	0.5
	2210	3.3		2157	3.7
3 TH	0433	0.7	**18** FR	0442	0.2
	1028	3.0		1043	3.7
	1635	1.0		1705	0.7
	2222	3.2		2227	3.4
4 FR	0441	0.7	**19** SA	0512	0.4
	1054	3.0		1132	3.6
	1651	1.2		1757	1.0
	2233	3.0		2257	3.1
5 SA	0447	0.8	**20** SU	0546	0.6
	1120	3.0		1225	3.5
	1706	1.4		1902	1.4
	2243	2.9		2326	2.6
6 SU	0450	0.9	**21** MO	0633	0.9
	1145	2.9		1324	3.4
	1719	1.6		2022	1.6
	2256	2.7		2353	2.2
7 MO	0457	1.0	**22** TU	0800	1.3
	1215	2.8		1437	3.2
	1738	1.8		2242	1.7
	2311	2.5		2352	1.8
8 TU	0506	1.1	**23** WE	0308	1.6
	1254	2.7		0609	1.7
	1805	2.0		0938	1.5
	2320	2.3		1628	3.1
9 WE	0507	1.3	**24** TH	0144	1.4
	1409	2.6		0704	2.1
	1857	2.3		1120	1.5
	1945	2.3		1815	3.1
10 TH	0411	1.5	**25** FR	0151	1.1
	1727	2.6		0741	2.3
				1239	1.4
				1913	3.2
11 FR	0310	1.5	**26** SA	0215	0.9
	0804	2.0		0813	2.5
	1206	1.6		1333	1.2
	1847	2.9		1953	3.2
12 SA	0208	1.3	**27** SU	0239	0.8
	0744	2.2		0842	2.7
	1308	1.3		1414	1.1
	1928	3.2		2021	3.3
13 SU	0222	1.0	**28** MO	0302	0.7
	0758	2.6		0906	2.8
	1352	1.0		1447	1.1
	2002	3.5		2040	3.2
14 MO	0248	0.7	**29** TU	0321	0.7
	0819	2.9		0926	2.9
	1430	0.7		1515	1.1
	2033	3.7		2054	3.2
15 TU	0316	0.4	**30** WE	0335	0.6
	0846	3.2		0945	3.0
	1507	0.5		1539	1.1
	2101	3.8		2111	3.1
			31 TH	0347	0.6
				1006	3.1
				1604	1.1
				2127	3.0

NOVEMBER

	Time	m		Time	m
1 FR	0357	0.6	**16** SA	0419	0.3
	1031	3.2		1046	3.8
	1630	1.2		1714	1.0
	2141	2.9		2159	3.0
2 SA	0406	0.6	**17** SU	0454	0.4
	1057	3.2		1135	3.8
	1657	1.4		1808	1.1
	2154	2.8		2234	2.7
3 SU	0412	0.7	**18** MO	0536	0.6
	1122	3.2		1226	3.7
	1725	1.5		1906	1.3
	2210	2.7		2310	2.4
4 MO	0420	0.8	**19** TU	0632	0.9
	1149	3.2		1319	3.6
	1755	1.7		2013	1.5
	2232	2.5		2347	2.0
5 TU	0434	0.9	**20** WE	0745	1.2
	1223	3.1		1416	3.3
	1838	1.8		2147	1.6
	2257	2.4			
6 WE	0452	1.1	**21** TH	0031	1.8
	1311	3.0		0255	1.7
	2020	2.0		0450	1.7
	2325	2.2		0903	1.4
				1520	3.2
7 TH	0508	1.3	**22** FR	0008	1.5
	1426	2.9		0625	2.0
				1024	1.6
				1632	3.0
8 FR	0400	1.6	**23** SA	0103	1.3
	0841	1.7		0714	2.2
	0931	1.7		1140	1.6
	1607	2.9		1743	2.9
9 SA	0044	1.6	**24** SU	0135	1.1
	0649	2.0		0753	2.4
	1122	1.6		1243	1.6
	1730	3.0		1837	2.9
10 SU	0110	1.2	**25** MO	0202	1.0
	0706	2.3		0826	2.6
	1228	1.4		1334	1.5
	1827	3.2		1915	2.9
11 MO	0141	0.9	**26** TU	0224	0.9
	0733	2.6		0853	2.7
	1319	1.1		1418	1.5
	1910	3.4		1944	2.9
12 TU	0213	0.6	**27** WE	0243	0.8
	0804	2.9		0917	2.9
	1405	0.9		1455	1.4
	1945	3.5		2011	2.8
13 WE	0244	0.4	**28** TH	0258	0.7
	0838	3.2		0940	3.1
	1449	0.8		1530	1.4
	2018	3.5		2036	2.8
14 TH	0315	0.3	**29** FR	0314	0.7
	0916	3.5		1003	3.2
	1535	0.8		1603	1.4
	2051	3.4		2057	2.7
15 FR	0346	0.2	**30** SA	0331	0.6
	1000	3.7		1029	3.3
	1623	0.8		1635	1.4
	2124	3.2		2115	2.6

DECEMBER

	Time	m		Time	m
1 SU	0347	0.6	**16** MO	0458	0.4
	1057	3.4		1137	3.9
	1708	1.4		1808	1.1
	2134	2.6		2228	2.5
2 MO	0402	0.7	**17** TU	0542	0.6
	1126	3.4		1221	3.8
	1742	1.4		1854	1.2
	2158	2.5		2306	2.3
3 TU	0421	0.8	**18** WE	0626	0.8
	1157	3.3		1302	3.6
	1819	1.5		1942	1.3
	2229	2.4		2345	2.2
4 WE	0448	0.9	**19** TH	0712	1.0
	1235	3.3		1341	3.4
	1906	1.6		2038	1.5
	2307	2.3			
5 TH	0524	1.1	**20** FR	0029	2.0
	1320	3.2		0802	1.3
	2015	1.7		1419	3.2
	2354	2.2		2149	1.5
6 FR	0614	1.3	**21** SA	0133	1.8
	1414	3.2		0901	1.5
	2148	1.6		1459	3.0
				2315	1.5
7 SA	0104	2.0	**22** SU	0657	1.9
	0840	1.5		1009	1.7
	1516	3.1		1546	2.8
	2311	1.5			
8 SU	0504	2.0	**23** MO	0027	1.4
	1031	1.5		0751	2.2
	1621	3.1		1126	1.9
				1646	2.6
9 MO	0010	1.2	**24** TU	0109	1.2
	0620	2.3		0826	2.4
	1145	1.5		1254	1.9
	1724	3.1		1800	2.5
10 TU	0057	0.9	**25** WE	0138	1.1
	0711	2.6		0853	2.7
	1251	1.4		1410	1.8
	1820	3.1		1904	2.4
11 WE	0138	0.7	**26** TH	0203	1.0
	0756	2.9		0914	2.9
	1352	1.3		1501	1.6
	1909	3.1		1948	2.4
12 TH	0217	0.5	**27** FR	0227	0.9
	0840	3.3		0934	3.1
	1450	1.2		1537	1.5
	1952	3.0		2021	2.4
13 FR	0255	0.4	**28** SA	0253	0.8
	0923	3.5		0956	3.2
	1544	1.1		1607	1.4
	2033	2.9		2046	2.4
14 SA	0335	0.3	**29** SU	0321	0.7
	1008	3.7		1022	3.4
	1635	1.0		1636	1.3
	2112	2.8		2108	2.4
15 SU	0416	0.4	**30** MO	0348	0.6
	1053	3.9		1051	3.5
	1722	1.0		1705	1.2
	2150	2.7		2131	2.5
			31 TU	0417	0.6
				1122	3.5
				1737	1.2
				2200	2.5

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55445

PAPUA NEW GUINEA - KEREMA BAY - OFFSHORE

LAT 8° 11´ S LONG 145° 30´ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000 YEAR 2024

JANUARY

	Time	m		Time	m
1 MO	0524	1.1	**16** TU	0049	1.8
	1307	2.1		0638	0.8
				1329	2.4
				2024	0.9
2 TU	0350	1.2	**17** WE	0226	1.7
	1352	1.9		0757	1.0
				1435	2.1
				2140	0.8
3 WE	0010	1.2	**18** TH	0413	1.8
	1454	1.8		0944	1.2
				1549	1.9
				2250	0.7
4 TH	0012	1.1	**19** FR	0542	1.9
	0715	1.5		1138	1.2
	0949	1.5		1704	1.8
	1600	1.7		2349	0.6
	2356	1.0			
5 FR	0713	1.7	**20** SA	0644	2.2
	1212	1.4		1300	1.1
	1653	1.7		1811	1.7
	2356	0.9			
6 SA	0715	1.9	**21** SU	0037	0.5
	1253	1.3		0731	2.4
	1733	1.7		1353	1.0
				1905	1.7
7 SU	0016	0.7	**22** MO	0118	0.4
	0725	2.1		0809	2.5
	1322	1.2		1433	0.9
	1809	1.7		1949	1.8
8 MO	0044	0.5	**23** TU	0155	0.3
	0744	2.3		0844	2.7
	1351	1.1		1507	0.9
	1846	1.8		2026	1.8
9 TU	0117	0.3	**24** WE	0228	0.3
	0812	2.5		0917	2.7
	1424	1.0		1538	0.9
	1925	2.0		2058	1.9
10 WE	0154	0.2	**25** TH	0259	0.4
	0845	2.7		0946	2.7
	1501	1.0		1607	0.9
	2008	2.1		2126	1.9
11 TH	0234	0.1	**26** FR	0327	0.4
	0923	2.8		1013	2.7
	1542	0.9		1634	1.0
	2055	2.1		2150	1.9
12 FR	0316	0.1	**27** SA	0352	0.6
	1005	2.9		1037	2.6
	1627	0.9		1659	1.1
	2145	2.1		2211	1.8
13 SA	0401	0.2	**28** SU	0413	0.7
	1051	2.9		1058	2.5
	1716	0.9		1723	1.1
	2238	2.0		2228	1.8
14 SU	0448	0.3	**29** MO	0431	0.9
	1139	2.8		1118	2.3
	1811	0.9		1747	1.2
	2337	1.9		2243	1.7
15 MO	0539	0.5	**30** TU	0442	1.0
	1232	2.6		1136	2.1
	1913	0.9		1817	1.2
				2257	1.6
			31 WE	0438	1.2
				1149	2.0
				1857	1.2
				2318	1.5

FEBRUARY

	Time	m		Time	m
1 TH	0405	1.3	**16** FR	0404	1.8
	1139	1.8		1020	1.4
	2011	1.2		1528	1.6
				2226	0.9
2 FR	1053	1.6	**17** SA	0553	2.1
	2159	1.1		1247	1.2
				1736	1.5
				2348	0.8
3 SA	0708	1.8	**18** SU	0651	2.3
	1338	1.4		1335	1.0
	1609	1.5		1844	1.6
	2309	0.9			
4 SU	0705	1.9	**19** MO	0039	0.6
	1327	1.3		0729	2.5
	1728	1.5		1405	0.8
	2353	0.7		1925	1.7
5 MO	0715	2.2	**20** TU	0117	0.5
	1333	1.2		0800	2.6
	1814	1.6		1430	0.8
				1956	1.8
6 TU	0032	0.5	**21** WE	0149	0.4
	0735	2.4		0828	2.7
	1351	1.0		1452	0.7
	1853	1.8		2022	1.9
7 WE	0109	0.3	**22** TH	0216	0.4
	0801	2.6		0852	2.7
	1418	0.9		1513	0.7
	1932	2.0		2045	2.0
8 TH	0147	0.1	**23** FR	0240	0.4
	0833	2.8		0913	2.7
	1450	0.8		1531	0.8
	2012	2.1		2104	2.0
9 FR	0226	0.0	**24** SA	0301	0.5
	0907	2.9		0931	2.6
	1526	0.7		1549	0.8
	2055	2.2		2120	2.0
10 SA	0307	0.0	**25** SU	0321	0.6
	0945	3.0		0948	2.6
	1605	0.6		1605	0.9
	2139	2.3		2137	2.0
11 SU	0348	0.1	**26** MO	0339	0.7
	1024	3.0		1004	2.5
	1646	0.6		1623	0.9
	2226	2.3		2155	2.0
12 MO	0431	0.3	**27** TU	0358	0.9
	1104	2.8		1019	2.3
	1730	0.7		1642	1.0
	2316	2.2		2217	1.9
13 TU	0517	0.6	**28** WE	0415	1.0
	1146	2.6		1032	2.2
	1818	0.7		1703	1.0
				2244	1.9
14 WE	0015	2.0	**29** TH	0430	1.2
	0608	0.9		1037	2.0
	1230	2.2		1727	1.0
	1915	0.9		2325	1.7
15 TH	0143	1.8			
	0726	1.2			
	1326	1.9			
	2037	0.9			

MARCH

	Time	m		Time	m
1 FR	0436	1.4	**16** SA	0409	2.0
	1030	1.8		1249	1.3
	1804	1.1		1631	1.4
				2215	1.1
2 SA	0225	1.6	**17** SU	0546	2.2
	0335	1.6		1306	1.0
	0702	1.6		1814	1.5
	2023	1.1		2343	0.9
3 SU	0623	1.8	**18** MO	0634	2.4
	1356	1.3		1327	0.8
	1610	1.3		1854	1.6
	2230	1.0			
4 MO	0632	2.0	**19** TU	0030	0.7
	1323	1.2		0707	2.5
	1740	1.5		1348	0.7
	2334	0.7		1922	1.8
5 TU	0651	2.2	**20** WE	0104	0.6
	1322	1.0		0734	2.5
	1821	1.6		1406	0.6
				1945	1.9
6 WE	0019	0.5	**21** TH	0131	0.5
	0714	2.4		0757	2.6
	1338	0.9		1423	0.6
	1856	1.8		2005	2.0
7 TH	0058	0.3	**22** FR	0153	0.5
	0741	2.6		0816	2.5
	1401	0.7		1438	0.7
	1931	2.1		2022	2.0
8 FR	0136	0.2	**23** SA	0212	0.6
	0810	2.8		0831	2.5
	1430	0.6		1450	0.7
	2007	2.3		2036	2.1
9 SA	0213	0.1	**24** SU	0230	0.6
	0842	2.9		0844	2.5
	1502	0.4		1502	0.7
	2045	2.4		2051	2.1
10 SU	0252	0.1	**25** MO	0250	0.7
	0915	3.0		0858	2.4
	1536	0.4		1517	0.7
	2126	2.5		2109	2.2
11 MO	0331	0.2	**26** TU	0311	0.8
	0950	2.9		0913	2.4
	1612	0.4		1534	0.7
	2209	2.5		2133	2.2
12 TU	0413	0.4	**27** WE	0336	0.9
	1025	2.7		0929	2.2
	1649	0.5		1554	0.7
	2255	2.4		2202	2.2
13 WE	0457	0.7	**28** TH	0405	1.1
	1059	2.4		0944	2.1
	1727	0.6		1617	0.8
	2350	2.2		2241	2.1
14 TH	0551	1.1	**29** FR	0440	1.3
	1131	2.0		0956	1.9
	1811	0.8		1646	0.8
				2337	2.0
15 FR	0120	2.0	**30** SA	0541	1.5
	0735	1.4		1000	1.7
	1156	1.6		1725	0.9
	1925	1.0			
			31 SU	0145	1.8
				1919	1.0

APRIL

	Time	m		Time	m
1 MO	0448	2.0	**16** TU	0556	2.4
	1309	1.2		1258	0.7
	1614	1.3		1838	1.7
	2153	1.0			
2 TU	0540	2.1	**17** WE	0004	0.9
	1246	1.0		0630	2.4
	1733	1.5		1318	0.7
	2309	0.8		1904	1.8
3 WE	0613	2.3	**18** TH	0038	0.8
	1253	0.9		0657	2.4
	1813	1.7		1336	0.6
	2359	0.6		1927	1.9
4 TH	0642	2.5	**19** FR	0104	0.8
	1312	0.7		0717	2.4
	1848	1.9		1350	0.6
				1945	1.9
5 FR	0040	0.4	**20** SA	0125	0.8
	0711	2.6		0732	2.3
	1336	0.5		1400	0.6
	1921	2.1		2000	2.0
6 SA	0118	0.3	**21** SU	0143	0.8
	0740	2.7		0743	2.3
	1404	0.3		1408	0.6
	1956	2.4		2012	2.1
7 SU	0156	0.2	**22** MO	0203	0.8
	0810	2.8		0755	2.3
	1434	0.2		1419	0.6
	2032	2.5		2028	2.2
8 MO	0235	0.3	**23** TU	0226	0.9
	0841	2.8		0810	2.3
	1505	0.2		1435	0.6
	2112	2.6		2051	2.3
9 TU	0316	0.4	**24** WE	0255	1.0
	0914	2.6		0829	2.2
	1538	0.2		1456	0.5
	2154	2.6		2121	2.4
10 WE	0400	0.7	**25** TH	0329	1.1
	0946	2.4		0851	2.1
	1612	0.4		1523	0.5
	2241	2.5		2159	2.4
11 TH	0450	1.0	**26** FR	0411	1.2
	1017	2.1		0915	2.0
	1647	0.6		1554	0.6
	2340	2.3		2246	2.3
12 FR	0558	1.3	**27** SA	0505	1.3
	1043	1.7		0940	1.9
	1726	0.8		1633	0.7
				2350	2.2
13 SA	0118	2.2	**28** SU	0631	1.5
	1831	1.1		1004	1.6
				1725	0.8
14 SU	0348	2.2	**29** MO	0128	2.1
	1222	1.1		1906	0.9
	1705	1.3			
	2145	1.1			
15 MO	0509	2.3	**30** TU	0327	2.1
	1237	0.9		1135	1.2
	1806	1.5		1541	1.3
	2316	1.0		2113	0.9

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55538

Papua New Guinea National Tide Tables 2024 NTM Edition 23 10 Nov 2023.

PAPUA NEW GUINEA - KEREMA BAY - OFFSHORE

LAT 8° 11´ S LONG 145° 30´ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

MAY

	Time	m		Time	m
1 WE	0440	2.2	**16** TH	0543	2.2
	1150	0.9		1247	0.7
	1706	1.5		1848	1.7
	2235	0.8			
2 TH	0527	2.4	**17** FR	0004	1.1
	1214	0.7		0611	2.2
	1754	1.7		1306	0.7
	2332	0.7		1913	1.8
3 FR	0603	2.5	**18** SA	0035	1.1
	1240	0.5		0631	2.1
	1833	2.0		1317	0.7
				1932	1.9
4 SA	0018	0.5	**19** SU	0100	1.1
	0635	2.5		0645	2.1
	1307	0.3		1322	0.7
	1908	2.2		1945	2.0
5 SU	0100	0.5	**20** MO	0123	1.1
	0706	2.6		0656	2.0
	1336	0.2		1329	0.6
	1944	2.4		1958	2.1
6 MO	0142	0.5	**21** TU	0148	1.1
	0737	2.5		0712	2.0
	1405	0.1		1343	0.5
	2022	2.6		2017	2.3
7 TU	0224	0.6	**22** WE	0218	1.1
	0809	2.5		0733	2.1
	1437	0.1		1405	0.4
	2103	2.7		2044	2.4
8 WE	0310	0.7	**23** TH	0253	1.1
	0842	2.3		0800	2.1
	1511	0.2		1433	0.4
	2148	2.7		2118	2.5
9 TH	0400	0.9	**24** FR	0333	1.1
	0917	2.1		0831	2.0
	1546	0.3		1508	0.4
	2239	2.6		2200	2.6
10 FR	0459	1.1	**25** SA	0419	1.2
	0954	1.8		0908	2.0
	1625	0.6		1547	0.4
	2341	2.5		2249	2.5
11 SA	0620	1.3	**26** SU	0516	1.3
	1034	1.6		0952	1.8
	1709	0.8		1634	0.5
				2349	2.5
12 SU	0107	2.3	**27** MO	0629	1.3
	1000	1.3		1051	1.7
	1202	1.3		1731	0.7
	1812	1.0			
13 MO	0254	2.3	**28** TU	0103	2.4
	1120	1.1		0807	1.3
	1617	1.3		1235	1.5
	2022	1.2		1850	0.8
14 TU	0412	2.3	**29** WE	0228	2.3
	1154	0.9		0946	1.1
	1733	1.5		1455	1.4
	2218	1.2		2029	0.9
15 WE	0504	2.2	**30** TH	0342	2.3
	1223	0.8		1049	0.9
	1816	1.6		1630	1.6
	2321	1.1		2155	0.9
			31 FR	0437	2.3
				1131	0.6
				1731	1.8
				2303	0.8

JUNE

	Time	m		Time	m
1 SA	0522	2.3	**16** SU	0025	1.3
	1206	0.5		0541	1.8
	1817	2.0		1246	0.8
	2359	0.8		1933	1.8
2 SU	0600	2.3	**17** MO	0100	1.3
	1239	0.3		0601	1.8
	1859	2.2		1247	0.7
				1943	2.0
3 MO	0051	0.8	**18** TU	0126	1.3
	0636	2.3		0621	1.8
	1311	0.2		1258	0.6
	1939	2.4		1954	2.1
4 TU	0140	0.8	**19** WE	0152	1.2
	0711	2.2		0646	1.8
	1344	0.2		1320	0.5
	2021	2.6		2013	2.3
5 WE	0229	0.8	**20** TH	0221	1.2
	0749	2.1		0715	1.9
	1419	0.2		1349	0.4
	2104	2.7		2041	2.5
6 TH	0318	0.9	**21** FR	0255	1.1
	0830	2.0		0750	2.0
	1457	0.2		1423	0.3
	2150	2.8		2116	2.7
7 FR	0410	1.0	**22** SA	0333	1.1
	0914	1.9		0831	2.0
	1536	0.3		1502	0.2
	2239	2.7		2156	2.7
8 SA	0506	1.1	**23** SU	0417	1.1
	1002	1.7		0917	2.0
	1618	0.5		1545	0.2
	2332	2.6		2242	2.7
9 SU	0611	1.2	**24** MO	0507	1.1
	1053	1.6		1009	1.9
	1700	0.7		1632	0.3
				2333	2.7
10 MO	0029	2.5	**25** TU	0606	1.1
	0742	1.3		1110	1.8
	1156	1.4		1725	0.5
	1745	1.0			
11 TU	0135	2.3	**26** WE	0031	2.6
	0943	1.2		0715	1.1
	1410	1.3		1226	1.7
	1835	1.2		1827	0.7
12 WE	0244	2.2	**27** TH	0135	2.4
	1102	1.1		0833	1.0
	1645	1.4		1407	1.6
	1950	1.3		1945	0.9
13 TH	0347	2.1	**28** FR	0243	2.3
	1151	1.0		0946	0.8
	1807	1.5		1550	1.7
	2149	1.4		2115	1.0
14 FR	0437	2.0	**29** SA	0346	2.2
	1222	0.9		1046	0.7
	1850	1.6		1710	1.8
	2328	1.4		2242	1.1
15 SA	0515	1.9	**30** SU	0443	2.1
	1241	0.9		1135	0.5
	1916	1.7		1811	2.0
				2359	1.0

JULY

	Time	m		Time	m
1 MO	0535	2.0	**16** TU	0144	1.4
	1218	0.4		0538	1.5
	1900	2.3		1217	0.8
				1941	2.0
2 TU	0104	1.0	**17** WE	0150	1.3
	0624	1.9		0611	1.6
	1257	0.3		1238	0.6
	1944	2.5		1949	2.2
3 WE	0157	1.0	**18** TH	0201	1.2
	0711	1.9		0643	1.7
	1336	0.2		1307	0.5
	2026	2.6		2007	2.4
4 TH	0244	0.9	**19** FR	0221	1.1
	0757	1.9		0716	1.8
	1415	0.2		1340	0.3
	2107	2.8		2033	2.6
5 FR	0328	0.9	**20** SA	0249	1.0
	0841	1.9		0754	2.0
	1453	0.2		1417	0.2
	2147	2.8		2106	2.8
6 SA	0409	0.9	**21** SU	0323	0.9
	0923	1.9		0836	2.1
	1531	0.3		1456	0.1
	2226	2.8		2143	2.9
7 SU	0450	1.0	**22** MO	0402	0.9
	1003	1.8		0921	2.2
	1606	0.5		1538	0.1
	2303	2.7		2224	2.9
8 MO	0530	1.1	**23** TU	0445	0.8
	1039	1.8		0921	2.1
	1639	0.7		1622	0.2
	2338	2.5		2307	2.8
9 TU	0612	1.2	**24** WE	0533	0.8
	1111	1.6		1102	2.0
	1706	0.9		1709	0.4
				2353	2.7
10 WE	0010	2.3	**25** TH	0626	0.8
	0656	1.2		1203	1.9
	1141	1.5		1800	0.7
	1727	1.1			
11 TH	0040	2.1	**26** FR	0043	2.4
	0754	1.3		0728	0.9
	1212	1.4		1323	1.8
	1723	1.3		1906	1.0
12 FR	0109	1.9	**27** SA	0141	2.2
	1134	1.2		0842	0.8
				1514	1.7
				2046	1.2
13 SA	0148	1.8	**28** SU	0255	1.9
	1216	1.2		1001	0.8
	2213	1.6		1702	1.9
				2256	1.3
14 SU	0036	1.6	**29** MO	0422	1.7
	0315	1.6		1113	0.7
	1223	1.1		1817	2.1
	1936	1.7			
15 MO	0126	1.5	**30** TU	0037	1.1
	0449	1.5		0544	1.7
	1214	1.0		1211	0.6
	1938	1.9		1909	2.3
			31 WE	0135	1.0
				0646	1.7
				1257	0.4
				1949	2.5

AUGUST

	Time	m		Time	m
1 TH	0215	0.9	**16** FR	0154	1.1
	0732	1.7		0649	1.7
	1336	0.3		1256	0.4
	2024	2.7		1951	2.5
2 FR	0249	0.8	**17** SA	0208	0.9
	0811	1.8		0720	1.9
	1412	0.3		1331	0.3
	2057	2.8		2016	2.7
3 SA	0319	0.8	**18** SU	0233	0.8
	0845	1.9		0755	2.1
	1445	0.3		1407	0.1
	2128	2.8		2046	2.8
4 SU	0348	0.8	**19** MO	0303	0.7
	0916	2.0		0833	2.2
	1516	0.3		1445	0.1
	2157	2.8		2119	2.9
5 MO	0416	0.8	**20** TU	0338	0.6
	0943	2.0		0914	2.3
	1543	0.5		1524	0.1
	2222	2.7		2155	2.9
6 TU	0441	0.9	**21** WE	0416	0.5
	1007	1.9		0958	2.4
	1607	0.6		1606	0.2
	2244	2.5		2233	2.8
7 WE	0505	1.0	**22** TH	0456	0.6
	1028	1.9		1046	2.3
	1626	0.8		1649	0.5
	2301	2.3		2312	2.6
8 TH	0527	1.1	**23** FR	0540	0.6
	1044	1.8		1139	2.1
	1637	1.0		1737	0.8
	2314	2.2		2352	2.3
9 FR	0549	1.2	**24** SA	0628	0.8
	1055	1.6		1249	2.0
	1629	1.2		1842	1.1
	2314	2.0			
10 SA	0612	1.2	**25** SU	0036	2.0
	1057	1.5		0733	0.9
	1539	1.3		1452	1.9
	2237	1.8		2059	1.4
11 SU	0648	1.3	**26** MO	0203	1.6
	1059	1.4		0920	0.9
	1333	1.4		1707	2.0
	2141	1.7			
12 MO	0906	1.2	**27** TU	0020	1.2
	1928	1.8		0453	1.5
				1107	0.8
				1820	2.3
13 TU	0259	1.3	**28** WE	0114	1.0
	0410	1.3		0620	1.6
	1115	1.1		1211	0.7
	1921	1.9		1904	2.5
14 WE	0205	1.3	**29** TH	0144	0.8
	0555	1.4		0705	1.7
	1150	0.9		1255	0.5
	1922	2.1		1938	2.6
15 TH	0154	1.2	**30** FR	0209	0.7
	0621	1.5		0739	1.8
	1222	0.7		1330	0.4
	1932	2.3		2007	2.7
			31 SA	0233	0.7
				0807	1.9
				1400	0.3
				2033	2.7

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I

SEE CHAPTER 5

55538

PAPUA NEW GUINEA - KEREMA BAY - OFFSHORE

LAT 8° 11´ S LONG 145° 30´ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

SEPTEMBER

	Time	m		Time	m
1 SU	0254 0832 1428 2056	0.6 2.0 0.4 2.7	**16** MO	0209 0747 1351 2017	0.6 2.2 0.2 2.8
2 MO	0315 0855 1452 2116	0.7 2.1 0.4 2.6	**17** TU	0238 0823 1429 2049	0.4 2.4 0.1 2.9
3 TU	0334 0915 1514 2134	0.7 2.1 0.6 2.6	**18** WE	0310 0902 1508 2122	0.3 2.5 0.2 2.9
4 WE	0351 0934 1533 2148	0.8 2.1 0.7 2.4	**19** TH	0344 0944 1549 2156	0.3 2.6 0.4 2.7
5 TH	0408 0951 1551 2201	0.8 2.1 0.9 2.3	**20** FR	0420 1029 1633 2231	0.4 2.5 0.7 2.4
6 FR	0424 1010 1605 2207	0.9 2.0 1.1 2.1	**21** SA	0457 1121 1725 2304	0.5 2.4 1.0 2.1
7 SA	0438 1030 1612 2201	1.0 1.9 1.3 2.0	**22** SU	0538 1232 1846 2336	0.7 2.2 1.3 1.7
8 SU	0450 1056 1603 2146	1.0 1.8 1.4 1.8	**23** MO	0633 1448	0.9 2.0
9 MO	0500 1156 1515 2037	1.1 1.6 1.6 1.7	**24** TU	0025 0233 0849 1656	1.3 1.3 1.0 2.2
10 TU	0508 1835	1.1 1.8	**25** WE	0038 0534 1057 1758	1.0 1.4 0.9 2.4
11 WE	0249 0550 0958 1835	1.2 1.2 1.1 2.0	**26** TH	0102 0627 1159 1839	0.8 1.6 0.8 2.5
12 TH	0142 0555 1118 1845	1.1 1.4 0.9 2.2	**27** FR	0124 0700 1240 1910	0.7 1.8 0.6 2.6
13 FR	0127 0617 1202 1901	1.0 1.5 0.7 2.4	**28** SA	0145 0727 1312 1936	0.6 1.9 0.5 2.6
14 SA	0129 0644 1239 1923	0.9 1.7 0.4 2.5	**29** SU	0204 0751 1339 1958	0.6 2.0 0.5 2.5
15 SU	0145 0714 1315 1949	0.7 2.0 0.3 2.7	**30** MO	0222 0813 1403 2016	0.6 2.1 0.6 2.5

OCTOBER

	Time	m		Time	m
1 TU	0237 0831 1424 2030	0.6 2.1 0.7 2.4	**16** WE	0209 0811 1412 2014	0.2 2.5 0.3 2.7
2 WE	0251 0848 1444 2043	0.6 2.2 0.8 2.4	**17** TH	0240 0850 1453 2047	0.1 2.6 0.4 2.6
3 TH	0304 0906 1505 2056	0.7 2.2 0.9 2.3	**18** FR	0313 0932 1538 2121	0.1 2.7 0.6 2.4
4 FR	0319 0927 1528 2108	0.7 2.2 1.0 2.2	**19** SA	0348 1019 1629 2156	0.2 2.6 0.9 2.2
5 SA	0335 0952 1554 2117	0.7 2.2 1.2 2.0	**20** SU	0425 1114 1732 2231	0.4 2.5 1.2 1.8
6 SU	0354 1025 1625 2122	0.8 2.1 1.3 1.9	**21** MO	0506 1231 1924 2308	0.7 2.3 1.4 1.5
7 MO	0414 1111 1715 2122	0.8 2.0 1.5 1.7	**22** TU	0603 1434 2327	0.9 2.2 1.2
8 TU	0440 1244	0.9 1.9	**23** WE	0323 0814 1617	1.3 1.1 2.3
9 WE	0523 1625	1.0 1.9	**24** TH	0001 0520 1023 1718	0.9 1.5 1.0 2.4
10 TH	0144 0330 0901 1720	1.2 1.2 1.1 2.1	**25** FR	0028 0608 1129 1800	0.8 1.6 0.9 2.4
11 FR	0051 0520 1037 1752	1.1 1.4 0.9 2.2	**26** SA	0053 0641 1214 1832	0.6 1.8 0.8 2.4
12 SA	0043 0557 1133 1820	0.9 1.6 0.7 2.4	**27** SU	0115 0710 1248 1857	0.6 1.9 0.8 2.3
13 SU	0055 0629 1216 1847	0.7 1.8 0.5 2.5	**28** MO	0133 0735 1316 1917	0.6 2.0 0.8 2.3
14 MO	0115 0701 1255 1915	0.5 2.1 0.4 2.6	**29** TU	0148 0756 1340 1931	0.6 2.0 0.9 2.2
15 TU	0141 0735 1333 1944	0.4 2.3 0.3 2.7	**30** WE	0159 0813 1402 1943	0.6 2.1 0.9 2.2
			31 TH	0210 0830 1425 1957	0.6 2.2 1.0 2.1

NOVEMBER

	Time	m		Time	m
1 FR	0224 0849 1452 2012	0.6 2.3 1.1 2.1	**16** SA	0249 0928 1540 2058	0.1 2.8 0.9 2.1
2 SA	0242 0915 1523 2031	0.6 2.4 1.2 2.0	**17** SU	0327 1018 1637 2141	0.2 2.7 1.0 1.9
3 SU	0305 0948 1602 2051	0.6 2.4 1.3 1.9	**18** MO	0408 1115 1746 2231	0.4 2.6 1.2 1.7
4 MO	0333 1030 1652 2113	0.6 2.3 1.4 1.8	**19** TU	0455 1225 1930 2346	0.6 2.5 1.3 1.4
5 TU	0408 1125 1803 2135	0.7 2.3 1.5 1.7	**20** WE	0552 1353 2156	0.9 2.4 1.2
6 WE	0453 1244 2006 2144	0.8 2.1 1.5 1.5	**21** TH	0231 0719 1518 2305	1.3 1.1 2.3 1.0
7 TH	0606 1433 2343	0.9 2.1 1.3	**22** FR	0433 0916 1622 2347	1.4 1.1 2.3 0.8
8 FR	0225 0814 1600 2330	1.3 1.0 2.2 1.0	**23** SA	0540 1042 1710	1.6 1.1 2.2
9 SA	0430 0952 1654 2351	1.4 0.9 2.3 0.8	**24** SU	0020 0626 1142 1747	0.8 1.7 1.1 2.1
10 SU	0528 1059 1733	1.6 0.8 2.3	**25** MO	0046 0701 1227 1816	0.7 1.8 1.1 2.0
11 MO	0016 0610 1150 1807	0.6 1.9 0.7 2.4	**26** TU	0106 0729 1303 1835	0.7 1.9 1.1 2.0
12 TU	0043 0647 1236 1839	0.4 2.1 0.6 2.5	**27** WE	0118 0751 1331 1850	0.7 2.0 1.2 1.9
13 WE	0112 0724 1319 1910	0.3 2.3 0.6 2.5	**28** TH	0126 0807 1357 1904	0.6 2.1 1.2 1.9
14 TH	0142 0802 1403 1943	0.1 2.6 0.6 2.4	**29** FR	0137 0823 1423 1923	0.6 2.2 1.2 1.9
15 FR	0214 0843 1450 2019	0.1 2.7 0.7 2.3	**30** SA	0156 0844 1453 1947	0.5 2.4 1.2 1.9

DECEMBER

	Time	m		Time	m
1 SU	0221 0912 1528 2016	0.5 2.5 1.2 1.9	**16** MO	0320 1018 1642 2149	0.2 2.8 1.0 1.8
2 MO	0252 0948 1608 2050	0.4 2.5 1.2 1.9	**17** TU	0403 1107 1738 2241	0.4 2.8 1.1 1.7
3 TU	0329 1031 1656 2132	0.4 2.6 1.3 1.8	**18** WE	0447 1159 1841 2337	0.6 2.6 1.2 1.6
4 WE	0412 1122 1756 2223	0.5 2.5 1.3 1.7	**19** TH	0531 1254 2003	0.8 2.5 1.2
5 TH	0502 1223 1912 2338	0.6 2.4 1.3 1.6	**20** FR	0052 0618 1354 2141	1.5 1.0 2.3 1.1
6 FR	0605 1336 2044	0.8 2.3 1.2	**21** SA	0314 0716 1458 2301	1.4 1.2 2.1 1.0
7 SA	0140 0731 1451 2202	1.5 0.9 2.3 1.0	**22** SU	0523 0858 1601 2355	1.5 1.4 1.9 1.0
8 SU	0339 0905 1555 2255	1.5 1.0 2.2 0.8	**23** MO	0638 1122 1655	1.6 1.4 1.8
9 MO	0457 1023 1646 2337	1.7 0.9 2.2 0.6	**24** TU	0029 0717 1243 1738	0.9 1.8 1.4 1.7
10 TU	0552 1129 1729	1.9 0.9 2.2	**25** WE	0048 0741 1328 1807	0.8 1.9 1.3 1.7
11 WE	0013 0638 1226 1808	0.4 2.1 0.9 2.2	**26** TH	0055 0757 1355 1827	0.8 2.0 1.3 1.7
12 TH	0047 0720 1319 1847	0.3 2.4 0.9 2.1	**27** FR	0101 0808 1413 1848	0.7 2.1 1.2 1.7
13 FR	0122 0802 1409 1928	0.2 2.6 0.9 2.1	**28** SA	0117 0820 1431 1913	0.6 2.3 1.2 1.8
14 SA	0159 0845 1459 2012	0.1 2.7 0.9 2.0	**29** SU	0141 0839 1454 1943	0.5 2.4 1.2 1.9
15 SU	0238 0930 1550 2059	0.1 2.8 0.9 1.9	**30** MO	0211 0907 1524 2019	0.4 2.6 1.1 1.9
			31 TU	0247 0941 1600 2100	0.3 2.7 1.1 2.0

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55538

PAPUA NEW GUINEA - REDSCAR HEAD

LAT 9° 15´ S LONG 146° 54´ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

JANUARY

	Time	m		Time	m
1 MO	1308	2.2	**16** TU	0026	1.7
				0625	0.7
				1324	2.4
				2020	1.0
2 TU	0433	1.3	**17** WE	0156	1.7
	1403	2.0		0733	1.0
				1422	2.2
				2129	0.9
3 WE	0025	1.3	**18** TH	0346	1.7
	1511	1.9		0912	1.2
				1525	2.0
				2234	0.8
4 TH	0001	1.2	**19** FR	0525	1.9
	0713	1.7		1116	1.3
	1022	1.6		1635	1.8
	1614	1.9		2330	0.8
	2356	1.1			
5 FR	0705	1.8	**20** SA	0633	2.1
	1158	1.5		1251	1.3
	1701	1.9		1745	1.7
6 SA	0002	0.9	**21** SU	0016	0.6
	0709	2.0		0719	2.4
	1243	1.4		1348	1.1
	1740	1.9		1844	1.7
7 SU	0017	0.8	**22** MO	0056	0.6
	0720	2.2		0755	2.5
	1316	1.3		1426	1.0
	1815	1.9		1929	1.7
8 MO	0039	0.6	**23** TU	0133	0.5
	0739	2.4		0828	2.7
	1347	1.2		1457	1.0
	1850	1.9		2007	1.8
9 TU	0107	0.5	**24** WE	0207	0.4
	0805	2.6		0859	2.7
	1421	1.1		1525	1.0
	1926	2.0		2040	1.9
10 WE	0141	0.4	**25** TH	0239	0.4
	0838	2.7		0930	2.7
	1458	1.0		1552	1.0
	2006	2.0		2109	1.9
11 TH	0220	0.3	**26** FR	0309	0.5
	0917	2.8		1000	2.7
	1539	1.0		1619	1.0
	2049	2.0		2134	1.9
12 FR	0303	0.2	**27** SA	0335	0.6
	1000	2.9		1028	2.6
	1625	1.0		1645	1.1
	2135	2.0		2154	1.8
13 SA	0349	0.2	**28** SU	0357	0.7
	1048	2.8		1055	2.5
	1716	1.0		1712	1.2
	2224	2.0		2209	1.8
14 SU	0438	0.3	**29** MO	0414	0.9
	1137	2.8		1118	2.3
	1812	1.0		1741	1.3
	2319	1.9		2219	1.7
15 MO	0529	0.5	**30** TU	0422	1.1
	1230	2.6		1137	2.2
	1913	1.0		1816	1.4
				2230	1.6
			31 WE	0411	1.3
				1152	2.0
				1910	1.4
				2257	1.5

FEBRUARY

	Time	m		Time	m
1 TH	0311	1.4	**16** FR	0336	1.8
	1203	1.9		0953	1.4
	2059	1.3		1438	1.6
				2201	1.0
2 FR	0757	1.7	**17** SA	0541	2.1
	2234	1.2		1246	1.3
				1717	1.5
				2327	0.9
3 SA	0649	1.9	**18** SU	0639	2.3
	1242	1.5		1331	1.1
	1618	1.6		1834	1.6
	2312	1.1			
4 SU	0646	2.1	**19** MO	0021	0.8
	1257	1.4		0715	2.5
	1725	1.7		1357	0.9
	2346	0.9		1913	1.7
5 MO	0659	2.3	**20** TU	0100	0.6
	1318	1.2		0745	2.6
	1809	1.7		1418	0.9
				1941	1.8
6 TU	0020	0.7	**21** WE	0131	0.5
	0722	2.4		0811	2.7
	1343	1.1		1438	0.8
	1847	1.8		2005	1.9
7 WE	0055	0.5	**22** TH	0159	0.5
	0751	2.6		0837	2.7
	1412	1.0		1457	0.9
	1924	2.0		2028	2.0
8 TH	0133	0.3	**23** FR	0224	0.5
	0824	2.8		0901	2.7
	1444	0.9		1517	0.9
	2003	2.1		2049	2.0
9 FR	0213	0.2	**24** SA	0246	0.5
	0901	2.9		0925	2.6
	1520	0.8		1536	0.9
	2043	2.2		2109	2.0
10 SA	0254	0.1	**25** SU	0307	0.6
	0940	3.0		0946	2.5
	1559	0.7		1556	1.0
	2125	2.2		2127	2.0
11 SU	0336	0.1	**26** MO	0326	0.8
	1019	2.9		1004	2.4
	1641	0.7		1616	1.1
	2210	2.2		2145	1.9
12 MO	0419	0.2	**27** TU	0343	0.9
	1059	2.8		1018	2.3
	1724	0.7		1636	1.1
	2258	2.1		2206	1.9
13 TU	0504	0.5	**28** WE	0357	1.1
	1139	2.6		1028	2.1
	1810	0.8		1658	1.2
	2355	2.0		2235	1.8
14 WE	0553	0.8	**29** TH	0409	1.3
	1219	2.3		1034	2.0
	1902	0.9		1723	1.2
				2321	1.7
15 TH	0115	1.8			
	0701	1.2			
	1305	1.9			
	2014	1.0			

MARCH

	Time	m		Time	m
1 FR	0412	1.5	**16** SA	0337	2.0
	1028	1.8		1244	1.3
	1758	1.2		1552	1.3
				2140	1.1
2 SA	0640	1.8	**17** SU	0525	2.2
	1948	1.3		1252	1.1
				1803	1.5
				2318	1.0
3 SU	0559	1.9	**18** MO	0615	2.4
	1342	1.4		1312	0.9
	1614	1.4		1840	1.7
	2219	1.2			
4 MO	0612	2.1	**19** TU	0009	0.8
	1302	1.3		0649	2.5
	1735	1.5		1331	0.8
	2323	1.0		1906	1.8
5 TU	0636	2.3	**20** WE	0045	0.7
	1311	1.1		0717	2.6
	1813	1.7		1349	0.8
				1927	1.9
6 WE	0007	0.8	**21** TH	0113	0.6
	0703	2.5		0742	2.6
	1330	1.0		1407	0.8
	1845	1.8		1948	2.0
7 TH	0045	0.5	**22** FR	0137	0.6
	0732	2.7		0804	2.6
	1354	0.8		1423	0.8
	1917	2.0		2008	2.0
8 FR	0121	0.3	**23** SA	0159	0.6
	0803	2.8		0825	2.6
	1421	0.7		1439	0.8
	1952	2.2		2029	2.1
9 SA	0158	0.1	**24** SU	0220	0.7
	0835	2.9		0844	2.5
	1452	0.6		1456	0.8
	2029	2.3		2050	2.1
10 SU	0235	0.1	**25** MO	0241	0.8
	0908	3.0		0901	2.4
	1525	0.5		1512	0.9
	2109	2.4		2112	2.1
11 MO	0315	0.1	**26** TU	0303	0.9
	0941	2.9		0915	2.3
	1559	0.5		1530	0.9
	2151	2.4		2136	2.1
12 TU	0356	0.3	**27** WE	0328	1.1
	1015	2.7		0927	2.2
	1635	0.5		1549	0.9
	2238	2.3		2204	2.1
13 WE	0440	0.7	**28** TH	0357	1.2
	1047	2.4		0939	2.1
	1713	0.6		1609	0.9
	2333	2.2		2239	2.1
14 TH	0534	1.1	**29** FR	0433	1.4
	1118	2.0		0950	1.9
	1754	0.8		1631	1.0
				2329	2.0
15 FR	0055	2.0	**30** SA	0539	1.6
	0714	1.4		0947	1.7
	1142	1.6		1656	1.1
	1858	1.0			
			31 SU	0130	1.9
				1738	1.2

APRIL

	Time	m		Time	m
1 MO	0437	2.0	**16** TU	0532	2.4
	1314	1.3		1235	0.9
	1641	1.4		1816	1.7
	2132	1.2		2338	1.0
2 TU	0531	2.2	**17** WE	0610	2.5
	1241	1.1		1257	0.8
	1735	1.5		1843	1.8
	2300	1.0			
3 WE	0606	2.4	**18** TH	0015	0.9
	1250	1.0		0640	2.5
	1804	1.7		1317	0.8
	2348	0.8		1907	1.9
4 TH	0636	2.5	**19** FR	0045	0.8
	1307	0.8		0705	2.5
	1832	1.9		1335	0.8
				1930	2.0
5 FR	0025	0.5	**20** SA	0111	0.8
	0703	2.7		0726	2.4
	1328	0.7		1350	0.8
	1902	2.1		1953	2.0
6 SA	0101	0.3	**21** SU	0135	0.9
	0731	2.8		0745	2.4
	1351	0.5		1404	0.7
	1936	2.3		2016	2.1
7 SU	0136	0.2	**22** MO	0159	0.9
	0759	2.8		0834	2.3
	1418	0.4		1419	0.7
	2012	2.5		2040	2.2
8 MO	0213	0.2	**23** TU	0226	1.0
	0829	2.8		0818	2.3
	1447	0.3		1435	0.7
	2052	2.6		2104	2.2
9 TU	0254	0.4	**24** WE	0256	1.1
	0900	2.6		0834	2.2
	1518	0.3		1453	0.7
	2136	2.6		2131	2.3
10 WE	0338	0.6	**25** TH	0330	1.2
	0931	2.4		0851	2.1
	1551	0.3		1515	0.7
	2225	2.5		2203	2.3
11 TH	0430	0.9	**26** FR	0411	1.3
	1002	2.1		0912	1.9
	1627	0.5		1539	0.7
	2324	2.4		2242	2.3
12 FR	0542	1.3	**27** SA	0505	1.4
	1031	1.7		0933	1.8
	1707	0.8		1608	0.8
				2335	2.2
13 SA	0049	2.2	**28** SU	0637	1.5
	0849	1.4		0946	1.6
	1042	1.4		1644	1.0
	1812	1.0			
14 SU	0306	2.2	**29** MO	0113	2.1
	1150	1.2		1758	1.1
	1635	1.3			
	2104	1.2			
15 MO	0440	2.3	**30** TU	0329	2.2
	1211	1.0		1201	1.2
	1742	1.5		1557	1.3
	2244	1.1		2053	1.1

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55574

PAPUA NEW GUINEA - REDSCAR HEAD

LAT 9° 15´ S LONG 146° 54´ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

MAY

	Time	m		Time	m
1 WE	0442	2.3	**16** TH	0521	2.3
	1159	1.1		1227	0.9
	1703	1.5		1824	1.7
	2224	1.0		2336	1.1
2 TH	0526	2.4	**17** FR	0556	2.3
	1216	0.9		1249	0.9
	1740	1.7		1855	1.8
	2317	0.8			
3 FR	0558	2.5	**18** SA	0016	1.1
	1236	0.7		0623	2.2
	1813	1.9		1305	0.8
	2359	0.6		1923	1.9
4 SA	0626	2.6	**19** SU	0049	1.2
	1256	0.6		0645	2.2
	1846	2.1		1318	0.8
				1947	2.1
5 SU	0037	0.5	**20** MO	0121	1.2
	0653	2.6		0705	2.2
	1318	0.4		1331	0.7
	1922	2.3		2009	2.2
6 MO	0116	0.5	**21** TU	0151	1.2
	0721	2.6		0724	2.1
	1343	0.2		1346	0.6
	2000	2.5		2032	2.3
7 TU	0158	0.6	**22** WE	0223	1.2
	0750	2.5		0744	2.1
	1412	0.2		1404	0.6
	2043	2.6		2056	2.4
8 WE	0245	0.7	**23** TH	0258	1.2
	0823	2.3		0807	2.0
	1444	0.2		1427	0.5
	2130	2.7		2124	2.5
9 TH	0338	0.9	**24** FR	0336	1.2
	0858	2.1		0834	2.0
	1520	0.3		1455	0.5
	2222	2.6		2159	2.5
10 FR	0441	1.1	**25** SA	0421	1.3
	0938	1.8		0906	1.9
	1601	0.5		1529	0.6
	2321	2.5		2242	2.5
11 SA	0606	1.3	**26** SU	0518	1.3
	1025	1.6		0942	1.7
	1650	0.7		1610	0.7
				2340	2.4
12 SU	0036	2.4	**27** MO	0639	1.4
	0826	1.3		1026	1.6
	1147	1.4		1705	0.8
	1759	1.0			
13 MO	0209	2.3	**28** TU	0100	2.3
	1029	1.2		0842	1.4
	1514	1.3		1154	1.4
	1950	1.1		1826	1.0
14 TU	0335	2.3	**29** WE	0234	2.3
	1122	1.0		1017	1.2
	1654	1.5		1448	1.4
	2138	1.2		2011	1.0
15 WE	0436	2.3	**30** TH	0346	2.4
	1158	1.0		1102	1.0
	1745	1.6		1617	1.5
	2247	1.2		2138	1.0
			31 FR	0436	2.4
				1133	0.8
				1712	1.7
				2242	0.9

JUNE

	Time	m		Time	m
1 SA	0514	2.4	**16** SU	0002	1.4
	1159	0.7		0537	2.0
	1756	1.9		1237	0.9
	2335	0.9		1926	2.0
2 SU	0545	2.3	**17** MO	0048	1.4
	1223	0.5		0606	2.0
	1837	2.2		1247	0.8
				1943	2.1
3 MO	0024	0.9	**18** TU	0123	1.3
	0616	2.3		0632	1.9
	1248	0.4		1300	0.7
	1918	2.4		1959	2.3
4 TU	0113	0.9	**19** WE	0154	1.3
	0648	2.2		0657	1.9
	1316	0.3		1318	0.6
	2000	2.5		2019	2.4
5 WE	0204	0.9	**20** TH	0224	1.2
	0724	2.1		0725	1.9
	1349	0.2		1343	0.5
	2045	2.7		2043	2.5
6 TH	0258	1.0	**21** FR	0257	1.1
	0806	2.0		0757	1.9
	1427	0.2		1413	0.4
	2131	2.7		2114	2.6
7 FR	0353	1.0	**22** SA	0334	1.1
	0852	1.8		0832	1.9
	1509	0.3		1449	0.4
	2220	2.7		2152	2.7
8 SA	0451	1.1	**23** SU	0418	1.1
	0943	1.7		0912	1.9
	1555	0.5		1530	0.4
	2310	2.6		2238	2.7
9 SU	0553	1.2	**24** MO	0510	1.2
	1035	1.6		0958	1.8
	1643	0.7		1618	0.5
				2332	2.6
10 MO	0005	2.5	**25** TU	0613	1.2
	0706	1.2		1052	1.7
	1131	1.5		1712	0.6
	1731	0.9			
11 TU	0104	2.4	**26** WE	0033	2.5
	0839	1.3		0729	1.2
	1248	1.4		1205	1.6
	1823	1.1		1815	0.8
12 WE	0210	2.2	**27** TH	0139	2.5
	1020	1.2		0847	1.1
	1521	1.4		1346	1.5
	1929	1.3		1928	0.9
13 TH	0317	2.2	**28** FR	0243	2.4
	1129	1.1		0953	1.0
	1732	1.5		1529	1.6
	2113	1.4		2051	1.1
14 FR	0415	2.1	**29** SA	0339	2.2
	1205	1.1		1043	0.9
	1832	1.7		1650	1.8
	2253	1.4		2216	1.1
15 SA	0501	2.0	**30** SU	0427	2.1
	1225	1.0		1123	0.7
	1905	1.8		1752	2.0
				2336	1.2

JULY

	Time	m		Time	m
1 MO	0512	2.0	**16** TU	0111	1.5
	1158	0.6		0539	1.7
	1843	2.2		1214	0.9
				1929	2.2
2 TU	0045	1.2	**17** WE	0132	1.3
	0557	1.9		0616	1.8
	1232	0.5		1234	0.8
	1927	2.4		1941	2.3
3 WE	0143	1.1	**18** TH	0153	1.2
	0643	1.8		0648	1.8
	1308	0.4		1259	0.6
	2009	2.6		2001	2.5
4 TH	0231	1.0	**19** FR	0217	1.1
	0731	1.8		0720	1.9
	1347	0.3		1330	0.5
	2048	2.7		2028	2.6
5 FR	0314	1.0	**20** SA	0247	1.0
	0818	1.8		0755	2.0
	1427	0.3		1405	0.4
	2128	2.8		2102	2.7
6 SA	0354	1.0	**21** SU	0322	1.0
	0902	1.8		0832	2.0
	1508	0.3		1445	0.3
	2207	2.8		2140	2.8
7 SU	0433	1.0	**22** MO	0402	1.0
	0942	1.8		0913	2.0
	1546	0.4		1527	0.2
	2245	2.7		2222	2.8
8 MO	0512	1.1	**23** TU	0446	1.0
	1017	1.8		0958	2.0
	1621	0.6		1612	0.3
	2323	2.6		2307	2.8
9 TU	0552	1.2	**24** WE	0536	1.0
	1049	1.7		1047	1.9
	1651	0.8		1659	0.4
				2353	2.7
10 WE	0000	2.4	**25** TH	0629	1.0
	0638	1.3		1145	1.8
	1115	1.6		1750	0.7
	1712	1.0			
11 TH	0036	2.2	**26** FR	0042	2.5
	0742	1.4		0729	1.0
	1134	1.5		1301	1.7
	1713	1.2		1849	1.0
12 FR	0115	2.0	**27** SA	0134	2.2
	1149	1.3		0835	1.0
				1449	1.7
				2018	1.2
13 SA	0209	1.9	**28** SU	0235	2.0
	1153	1.2		0948	0.9
	1955	1.7		1645	1.9
	2242	1.7		2237	1.4
14 SU	0337	1.8	**29** MO	0354	1.7
	1157	1.1		1055	0.8
	1922	1.9		1806	2.1
15 MO	0040	1.6	**30** TU	0033	1.3
	0451	1.7		0519	1.6
	1202	1.0		1151	0.7
	1923	2.0		1857	2.3
			31 WE	0133	1.1
				0626	1.6
				1236	0.6
				1935	2.5

AUGUST

	Time	m		Time	m
1 TH	0209	1.0	**16** FR	0142	1.1
	0714	1.7		0646	1.8
	1315	0.5		1246	0.7
	2008	2.7		1942	2.5
2 FR	0238	0.9	**17** SA	0202	1.0
	0751	1.8		0716	1.9
	1351	0.4		1320	0.5
	2039	2.8		2010	2.7
3 SA	0304	0.9	**18** SU	0229	0.9
	0824	1.9		0748	2.0
	1425	0.3		1356	0.3
	2110	2.8		2042	2.8
4 SU	0331	0.9	**19** MO	0300	0.8
	0855	2.0		0824	2.2
	1456	0.3		1434	0.1
	2140	2.7		2117	2.9
5 MO	0357	0.9	**20** TU	0335	0.7
	0923	2.0		0903	2.2
	1524	0.4		1513	0.1
	2209	2.7		2153	2.9
6 TU	0424	1.0	**21** WE	0413	0.7
	0948	2.0		0946	2.3
	1549	0.6		1554	0.2
	2235	2.5		2230	2.8
7 WE	0450	1.1	**22** TH	0452	0.7
	1010	1.9		1031	2.2
	1609	0.8		1638	0.4
	2258	2.4		2307	2.6
8 TH	0515	1.2	**23** FR	0534	0.7
	1026	1.8		1123	2.1
	1619	1.0		1725	0.8
	2313	2.2		2344	2.3
9 FR	0541	1.3	**24** SA	0620	0.8
	1039	1.6		1231	2.0
	1610	1.3		1826	1.1
	2316	2.0			
10 SA	0611	1.3	**25** SU	0023	2.0
	1053	1.5		0717	0.9
	1517	1.4		1426	1.9
	2251	1.9		2040	1.4
11 SU	0705	1.4	**26** MO	0120	1.6
	2040	1.8		0854	1.0
				1653	2.0
12 MO	1019	1.3	**27** TU	0023	1.3
	1906	1.9		0433	1.4
				1046	0.9
				1808	2.3
13 TU	0217	1.5	**28** WE	0112	1.1
	0422	1.5		0611	1.5
	1112	1.2		1153	0.8
	1858	2.1		1851	2.5
14 WE	0132	1.4	**29** TH	0137	0.9
	0541	1.6		0654	1.7
	1143	1.0		1238	0.6
	1903	2.2		1923	2.6
15 TH	0130	1.3	**30** FR	0158	0.8
	0616	1.6		0723	1.8
	1214	0.9		1312	0.5
	1918	2.4		1950	2.7
			31 SA	0217	0.8
				0748	1.9
				1342	0.4
				2016	2.7

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55574

PAPUA NEW GUINEA - REDSCAR HEAD

LAT 9° 15´ S LONG 146° 54´ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

SEPTEMBER

	Time	m		Time	m
1 SU	0237 0812 1409 2041	0.8 2.0 0.4 2.7	**16** MO	0204 0735 1338 2013	0.7 2.2 0.2 2.8
2 MO	0257 0836 1433 2105	0.8 2.1 0.5 2.6	**17** TU	0231 0810 1414 2044	0.6 2.3 0.1 2.9
3 TU	0317 0859 1456 2127	0.8 2.1 0.6 2.5	**18** WE	0301 0848 1453 2116	0.5 2.4 0.2 2.9
4 WE	0337 0922 1517 2145	0.9 2.1 0.7 2.4	**19** TH	0334 0929 1533 2148	0.4 2.5 0.3 2.7
5 TH	0356 0943 1535 2158	0.9 2.0 1.0 2.3	**20** FR	0408 1015 1618 2221	0.4 2.5 0.6 2.4
6 FR	0414 1004 1549 2203	1.0 1.9 1.2 2.1	**21** SA	0444 1107 1712 2253	0.5 2.3 1.0 2.1
7 SA	0429 1027 1556 2158	1.1 1.9 1.4 2.0	**22** SU	0523 1216 1835 2323	0.7 2.2 1.3 1.7
8 SU	0443 1058 1548 2136	1.1 1.8 1.6 1.8	**23** MO	0614 1419	0.9 2.1
9 MO	0454 1223 1338 1918	1.2 1.7 1.7 1.8	**24** TU	0816 1634	1.1 2.2
10 TU	0504 1813	1.3 1.9	**25** WE	0022 0523 1032 1740	1.1 1.4 1.0 2.4
11 WE	0233 0602 0946 1815	1.3 1.4 1.3 2.1	**26** TH	0046 0613 1138 1821	0.9 1.6 0.9 2.5
12 TH	0123 0554 1112 1830	1.3 1.5 1.1 2.2	**27** FR	0107 0643 1221 1853	0.8 1.8 0.7 2.6
13 FR	0112 0613 1155 1851	1.1 1.6 0.9 2.4	**28** SA	0127 0707 1253 1920	0.7 1.9 0.6 2.6
14 SA	0122 0637 1230 1917	1.0 1.8 0.7 2.6	**29** SU	0146 0731 1320 1944	0.7 2.0 0.6 2.6
15 SU	0140 0704 1304 1944	0.9 2.0 0.4 2.7	**30** MO	0205 0754 1345 2006	0.7 2.1 0.6 2.5

OCTOBER

	Time	m		Time	m
1 TU	0222 0818 1408 2026	0.7 2.1 0.7 2.5	**16** WE	0157 0754 1353 2005	0.4 2.4 0.3 2.7
2 WE	0238 0843 1431 2043	0.7 2.1 0.8 2.4	**17** TH	0224 0833 1434 2035	0.3 2.6 0.4 2.6
3 TH	0255 0907 1455 2057	0.8 2.1 1.0 2.3	**18** FR	0255 0916 1519 2108	0.2 2.7 0.6 2.4
4 FR	0311 0932 1520 2106	0.8 2.1 1.1 2.1	**19** SA	0328 1004 1612 2141	0.2 2.6 0.9 2.1
5 SA	0327 0958 1547 2112	0.8 2.1 1.3 2.0	**20** SU	0404 1100 1720 2218	0.4 2.5 1.1 1.8
6 SU	0342 1027 1620 2116	0.9 2.1 1.5 1.9	**21** MO	0447 1213 1915 2304	0.6 2.4 1.3 1.5
7 MO	0358 1106 1713 2106	1.0 2.0 1.6 1.8	**22** TU	0547 1400 2231	0.9 2.3 1.2
8 TU	0414 1223	1.0 1.9	**23** WE	0228 0749 1547 2330	1.3 1.1 2.3 1.0
9 WE	0429 1616	1.2 2.0	**24** TH	0451 0952 1653	1.5 1.0 2.4
10 TH	0158 0621 0809 1715	1.3 1.3 1.3 2.1	**25** FR	0003 0542 1101 1739	0.9 1.7 1.0 2.5
11 FR	0047 0533 1032 1749	1.2 1.5 1.1 2.3	**26** SA	0031 0617 1148 1814	0.8 1.8 0.9 2.5
12 SA	0042 0553 1126 1817	1.1 1.6 0.9 2.4	**27** SU	0055 0648 1225 1842	0.8 1.9 0.9 2.4
13 SU	0053 0618 1205 1843	0.9 1.8 0.7 2.6	**28** MO	0116 0716 1256 1906	0.7 2.0 0.9 2.4
14 MO	0111 0646 1240 1909	0.7 2.0 0.5 2.7	**29** TU	0134 0744 1324 1927	0.7 2.1 0.9 2.3
15 TU	0132 0718 1315 1936	0.6 2.2 0.4 2.7	**30** WE	0150 0811 1353 1946	0.7 2.1 1.0 2.2
			31 TH	0205 0837 1422 2002	0.7 2.2 1.1 2.2

NOVEMBER

	Time	m		Time	m
1 FR	0220 0902 1452 2016	0.7 2.3 1.2 2.1	**16** SA	0223 0910 1520 2039	0.1 2.7 0.9 2.1
2 SA	0237 0928 1526 2031	0.7 2.3 1.3 2.0	**17** SU	0301 1001 1621 2123	0.2 2.7 1.0 1.9
3 SU	0256 0956 1604 2048	0.7 2.3 1.4 1.9	**18** MO	0345 1058 1734 2216	0.3 2.7 1.1 1.7
4 MO	0317 1029 1652 2106	0.7 2.3 1.5 1.8	**19** TU	0436 1203 1908 2327	0.6 2.5 1.2 1.5
5 TU	0343 1113 1805 2118	0.8 2.2 1.5 1.7	**20** WE	0539 1320 2059	0.8 2.4 1.2
6 WE	0414 1227	0.9 2.1	**21** TH	0127 0702 1442 2222	1.4 1.0 2.4 1.1
7 TH	0502 1435	1.1 2.1	**22** FR	0340 0840 1551 2317	1.5 1.1 2.3 1.0
8 FR	0059 0236 0735 1608 2351	1.3 1.3 1.2 2.2 1.2	**23** SA	0501 1003 1645 2357	1.6 1.1 2.3 0.9
9 SA	0437 0941 1658	1.4 1.1 2.3	**24** SU	0557 1107 1727	1.7 1.2 2.2
10 SU	0000 0520 1047 1733	1.0 1.6 0.9 2.4	**25** MO	0027 0641 1159 1801	0.9 1.8 1.2 2.2
11 MO	0017 0555 1134 1802	0.8 1.8 0.8 2.5	**26** TU	0050 0716 1243 1828	0.8 2.0 1.2 2.1
12 TU	0037 0628 1215 1829	0.6 2.1 0.7 2.5	**27** WE	0107 0746 1321 1852	0.8 2.1 1.2 2.1
13 WE	0058 0704 1256 1857	0.4 2.3 0.7 2.5	**28** TH	0121 0811 1356 1914	0.7 2.2 1.3 2.0
14 TH	0122 0742 1339 1927	0.3 2.5 0.7 2.4	**29** FR	0136 0833 1428 1934	0.7 2.3 1.3 2.0
15 FR	0151 0824 1427 2001	0.2 2.7 0.8 2.3	**30** SA	0153 0856 1459 1955	0.6 2.4 1.3 1.9

DECEMBER

	Time	m		Time	m
1 SU	0214 0920 1533 2020	0.6 2.5 1.3 1.9	**16** MO	0253 0958 1627 2128	0.2 2.8 1.0 1.8
2 MO	0240 0950 1611 2048	0.6 2.5 1.3 1.8	**17** TU	0340 1047 1721 2220	0.3 2.8 1.0 1.7
3 TU	0311 1027 1658 2121	0.6 2.5 1.3 1.8	**18** WE	0429 1137 1819 2312	0.5 2.7 1.1 1.7
4 WE	0349 1115 1802 2159	0.7 2.4 1.4 1.7	**19** TH	0516 1230 1926	0.7 2.5 1.2
5 TH	0436 1219 1936 2255	0.8 2.4 1.4 1.5	**20** FR	0011 0604 1326 2050	1.5 0.9 2.3 1.2
6 FR	0540 1342 2129	0.9 2.3 1.3	**21** SA	0141 0656 1427 2223	1.4 1.1 2.2 1.2
7 SA	0118 0709 1501 2231	1.4 1.0 2.3 1.1	**22** SU	0422 0814 1530 2331	1.5 1.4 2.1 1.1
8 SU	0332 0846 1559 2307	1.5 1.1 2.3 1.0	**23** MO	0615 1025 1630	1.6 1.5 2.0
9 MO	0444 1004 1642 2336	1.6 1.0 2.3 0.8	**24** TU	0007 0703 1204 1720	1.0 1.8 1.5 1.9
10 TU	0534 1107 1718	1.9 1.0 2.3	**25** WE	0029 0730 1303 1759	0.9 2.0 1.4 1.8
11 WE	0001 0618 1203 1751	0.6 2.1 1.0 2.2	**26** TH	0043 0749 1340 1831	0.8 2.1 1.4 1.8
12 TH	0027 0659 1255 1825	0.4 2.3 1.0 2.1	**27** FR	0057 0805 1407 1858	0.8 2.3 1.3 1.8
13 FR	0056 0742 1348 1904	0.3 2.5 1.0 2.0	**28** SA	0114 0821 1431 1924	0.7 2.4 1.2 1.8
14 SA	0130 0826 1440 1948	0.2 2.7 1.0 2.0	**29** SU	0135 0842 1456 1951	0.6 2.5 1.2 1.9
15 SU	0209 0911 1533 2037	0.2 2.8 1.0 1.9	**30** MO	0203 0907 1526 2022	0.5 2.6 1.2 1.9
			31 TU	0235 0939 1601 2056	0.5 2.6 1.2 1.9

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55574

PAPUA NEW GUINEA - PADANA NAHUA PASSAGE

LAT 9° 34´ S LONG 147° 17´ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

JANUARY

	Time	m		Time	m
1 MO	0503 0.9 1308 1.9 2111 1.2 2249 1.2		**16** TU	0018 1.5 0612 0.7 1336 2.1 2032 0.9	
2 TU	0525 1.1 1420 1.8 2316 1.1		**17** WE	0202 1.4 0728 1.0 1443 1.9 2151 0.8	
3 WE	0606 1.2 0650 1.2 1529 1.8 2319 1.0		**18** TH	0414 1.5 0934 1.2 1554 1.8 2256 0.7	
4 TH	0614 1.4 0948 1.3 1617 1.7 2328 0.9		**19** FR	0551 1.8 1143 1.2 1701 1.7 2345 0.6	
5 FR	0631 1.6 1123 1.3 1653 1.7 2342 0.7		**20** SA	0647 2.1 1304 1.2 1800 1.7	
6 SA	0649 1.8 1221 1.2 1726 1.7		**21** SU	0025 0.5 0726 2.3 1355 1.1 1848 1.6	
7 SU	0001 0.6 0710 2.0 1303 1.2 1759 1.7		**22** MO	0101 0.5 0758 2.5 1430 1.0 1928 1.6	
8 MO	0026 0.4 0733 2.2 1339 1.1 1836 1.7		**23** TU	0134 0.4 0827 2.6 1459 0.9 2001 1.7	
9 TU	0056 0.3 0802 2.4 1415 1.0 1917 1.7		**24** WE	0204 0.4 0854 2.6 1524 0.9 2028 1.7	
10 WE	0131 0.2 0835 2.5 1453 0.9 2000 1.7		**25** TH	0233 0.4 0920 2.5 1547 0.9 2051 1.7	
11 TH	0212 0.1 0914 2.5 1534 0.8 2044 1.8		**26** FR	0259 0.5 0946 2.5 1610 1.0 2112 1.7	
12 FR	0255 0.1 0958 2.5 1618 0.8 2130 1.8		**27** SA	0323 0.5 1011 2.3 1633 1.0 2131 1.7	
13 SA	0341 0.2 1046 2.4 1708 0.9 2218 1.7		**28** SU	0345 0.6 1038 2.2 1700 1.1 2151 1.6	
14 SU	0428 0.3 1138 2.3 1806 0.9 2310 1.6		**29** MO	0406 0.7 1105 2.1 1734 1.2 2214 1.5	
15 MO	0518 0.4 1235 2.2 1914 0.9		**30** TU	0423 0.8 1133 1.9 1822 1.2 2247 1.4	
			31 WE	0435 1.0 1204 1.8 1935 1.1 2358 1.3	

FEBRUARY

	Time	m		Time	m
1 TH	0407 1.2 1239 1.6 2106 1.1		**16** FR	0442 1.7 1133 1.4 1541 1.5 2231 0.9	
2 FR	0644 1.5 0932 1.4 1404 1.5 2214 0.9		**17** SA	0604 2.0 1301 1.2 1731 1.5 2335 0.7	
3 SA	0626 1.7 1223 1.3 1613 1.4 2259 0.8		**18** SU	0642 2.3 1332 1.0 1828 1.5	
4 SU	0639 1.9 1257 1.2 1721 1.5 2337 0.6		**19** MO	0019 0.7 0712 2.5 1355 0.9 1905 1.6	
5 MO	0659 2.1 1320 1.1 1808 1.5		**20** TU	0055 0.6 0738 2.6 1415 0.8 1933 1.7	
6 TU	0014 0.5 0723 2.3 1343 0.9 1848 1.6		**21** WE	0125 0.5 0803 2.6 1432 0.8 1954 1.8	
7 WE	0052 0.4 0752 2.4 1410 0.8 1925 1.8		**22** TH	0152 0.5 0826 2.6 1449 0.8 2011 1.9	
8 TH	0131 0.2 0825 2.5 1440 0.7 2002 1.9		**23** FR	0215 0.5 0848 2.5 1505 0.9 2027 1.9	
9 FR	0211 0.1 0900 2.6 1514 0.7 2039 2.0		**24** SA	0235 0.5 0908 2.4 1522 0.9 2044 1.9	
10 SA	0250 0.1 0938 2.6 1551 0.7 2118 2.0		**25** SU	0255 0.5 0929 2.3 1541 0.9 2104 1.9	
11 SU	0329 0.1 1018 2.5 1631 0.7 2159 1.9		**26** MO	0314 0.6 0949 2.2 1603 0.9 2129 1.8	
12 MO	0408 0.2 1057 2.4 1716 0.8 2245 1.8		**27** TU	0334 0.7 1010 2.1 1629 0.9 2202 1.7	
13 TU	0447 0.5 1137 2.2 1807 0.9 2343 1.7		**28** WE	0356 0.9 1030 2.0 1700 0.9 2245 1.6	
14 WE	0530 0.8 1217 1.9 1913 0.9		**29** TH	0417 1.1 1046 1.8 1738 1.0 2355 1.5	
15 TH	0134 1.5 0638 1.2 1312 1.7 2051 0.9				

MARCH

	Time	m		Time	m
1 FR	0435 1.3 1046 1.6 1840 1.0		**16** SA	0435 1.9 1304 1.1 1651 1.3 2204 1.0	
2 SA	0535 1.6 2046 1.0		**17** SU	0535 2.2 1259 0.9 1801 1.4 2318 0.9	
3 SU	0546 1.8 1310 1.2 1636 1.3 2224 0.9		**18** MO	0611 2.4 1312 0.8 1835 1.6	
4 MO	0610 2.0 1257 1.0 1744 1.4 2325 0.7		**19** TU	0005 0.8 0641 2.4 1327 0.8 1858 1.7	
5 TU	0637 2.2 1308 0.9 1820 1.6		**20** WE	0039 0.7 0708 2.5 1343 0.7 1917 1.8	
6 WE	0010 0.6 0705 2.4 1327 0.8 1850 1.7		**21** TH	0107 0.7 0732 2.5 1357 0.8 1932 1.9	
7 TH	0048 0.4 0735 2.5 1350 0.7 1920 1.9		**22** FR	0129 0.6 0753 2.4 1411 0.8 1946 2.0	
8 FR	0124 0.2 0805 2.6 1416 0.6 1951 2.1		**23** SA	0148 0.6 0811 2.4 1424 0.8 2001 2.0	
9 SA	0158 0.1 0837 2.6 1446 0.6 2024 2.2		**24** SU	0205 0.6 0828 2.3 1439 0.8 2021 2.0	
10 SU	0233 0.1 0908 2.6 1519 0.5 2100 2.2		**25** MO	0224 0.6 0845 2.3 1457 0.7 2047 2.0	
11 MO	0308 0.2 0939 2.5 1553 0.6 2141 2.1		**26** TU	0247 0.7 0903 2.2 1518 0.7 2119 2.0	
12 TU	0344 0.4 1009 2.3 1629 0.6 2228 2.0		**27** WE	0313 0.8 0921 2.1 1541 0.7 2158 1.9	
13 WE	0423 0.8 1034 2.0 1708 0.7 2330 1.8		**28** TH	0345 1.0 0939 1.9 1607 0.7 2246 1.9	
14 TH	0510 1.1 1050 1.7 1753 0.9		**29** FR	0428 1.2 0954 1.7 1634 0.7 2354 1.8	
15 FR	0145 1.7 1925 1.0		**30** SA	0611 1.4 0944 1.5 1708 0.8	
			31 SU	0238 1.7 1904 1.0	

APRIL

	Time	m		Time	m
1 MO	0443 1.9 1224 1.0 1659 1.2 2200 0.9		**16** TU	0529 2.3 1236 0.8 1815 1.6 2336 0.9	
2 TU	0531 2.1 1223 0.9 1739 1.4 2310 0.8		**17** WE	0604 2.3 1253 0.8 1835 1.7	
3 WE	0607 2.3 1238 0.8 1807 1.6 2355 0.6		**18** TH	0011 0.9 0633 2.3 1309 0.8 1853 1.8	
4 TH	0639 2.4 1259 0.7 1834 1.9		**19** FR	0038 0.8 0657 2.3 1324 0.8 1909 1.9	
5 FR	0031 0.4 0708 2.5 1323 0.6 1903 2.0		**20** SA	0059 0.8 0715 2.3 1336 0.8 1925 1.9	
6 SA	0105 0.3 0737 2.6 1349 0.5 1934 2.2		**21** SU	0117 0.8 0730 2.2 1348 0.7 1944 2.0	
7 SU	0138 0.2 0804 2.6 1418 0.4 2009 2.2		**22** MO	0137 0.8 0745 2.2 1402 0.6 2009 2.1	
8 MO	0212 0.3 0831 2.5 1447 0.4 2049 2.3		**23** TU	0201 0.8 0801 2.1 1419 0.5 2040 2.1	
9 TU	0249 0.5 0856 2.3 1518 0.4 2133 2.2		**24** WE	0232 0.9 0820 2.1 1441 0.4 2115 2.1	
10 WE	0330 0.8 0920 2.1 1549 0.5 2225 2.1		**25** TH	0309 1.0 0841 1.9 1505 0.4 2156 2.1	
11 TH	0421 1.1 0937 1.8 1621 0.6 2336 2.0		**26** FR	0356 1.1 0906 1.8 1532 0.4 2244 2.1	
12 FR	0549 1.4 0933 1.5 1654 0.8		**27** SA	0503 1.2 0931 1.5 1604 0.6 2351 2.0	
13 SA	0144 2.0 1746 1.0		**28** SU	0719 1.3 0951 1.3 1647 0.7	
14 SU	0343 2.1 1223 1.0 1717 1.2 2119 1.1		**29** MO	0143 1.9 1848 0.9	
15 MO	0446 2.2 1222 0.8 1751 1.4 2246 1.0		**30** TU	0340 2.0 1113 1.0 1611 1.2 2127 0.9	

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55583

PAPUA NEW GUINEA - PADANA NAHUA PASSAGE

LAT 9° 34′ S LONG 147° 17′ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

MAY

	Time	m		Time	m
1 WE	0446	2.1	**16** TH	0523	2.1
	1137	0.8		1223	0.8
	1703	1.5		1812	1.6
	2238	0.7		2331	1.0
2 TH	0530	2.3	**17** FR	0555	2.1
	1203	0.7		1241	0.8
	1740	1.7		1835	1.7
	2326	0.6			
3 FR	0605	2.4	**18** SA	0003	1.0
	1229	0.6		0618	2.1
	1813	1.9		1254	0.8
				1856	1.8
4 SA	0005	0.5	**19** SU	0029	1.0
	0635	2.4		0634	2.1
	1256	0.5		1303	0.7
	1848	2.0		1917	1.9
5 SU	0042	0.5	**20** MO	0055	1.0
	0702	2.4		0648	2.0
	1323	0.4		1314	0.6
	1925	2.2		1940	2.0
6 MO	0120	0.6	**21** TU	0123	1.0
	0727	2.3		0703	2.0
	1350	0.3		1328	0.4
	2005	2.3		2006	2.1
7 TU	0202	0.7	**22** WE	0156	1.0
	0753	2.2		0723	1.9
	1419	0.3		1348	0.3
	2049	2.3		2036	2.2
8 WE	0248	0.9	**23** TH	0234	1.0
	0818	2.0		0749	1.9
	1450	0.3		1412	0.3
	2137	2.3		2111	2.3
9 TH	0343	1.1	**24** FR	0319	1.1
	0843	1.8		0820	1.8
	1521	0.4		1442	0.2
	2231	2.3		2152	2.3
10 FR	0454	1.2	**25** SA	0412	1.1
	0907	1.6		0858	1.6
	1553	0.5		1518	0.3
	2337	2.2		2241	2.2
11 SA	0653	1.3	**26** SU	0519	1.1
	0918	1.3		0945	1.5
	1630	0.8		1602	0.5
				2344	2.1
12 SU	0103	2.1	**27** MO	0652	1.1
	1723	1.0		1049	1.3
				1703	0.6
13 MO	0236	2.1	**28** TU	0111	2.1
	1122	1.0		0841	1.1
	1621	1.2		1243	1.2
	1949	1.1		1843	0.8
14 TU	0347	2.1	**29** WE	0244	2.1
	1137	0.9		0958	0.9
	1714	1.4		1456	1.3
	2145	1.1		2036	0.8
15 WE	0441	2.1	**30** TH	0355	2.1
	1200	0.9		1048	0.8
	1745	1.5		1616	1.4
	2248	1.1		2153	0.8
			31 FR	0445	2.2
				1127	0.7
				1712	1.6
				2252	0.7

JUNE

	Time	m		Time	m
1 SA	0525	2.2	**16** SU	0533	1.8
	1200	0.5		1222	0.8
	1800	1.8		1859	1.7
	2343	0.8			
2 SU	0558	2.2	**17** MO	0020	1.2
	1230	0.4		0552	1.8
	1845	2.0		1229	0.6
				1919	1.9
3 MO	0033	0.8	**18** TU	0057	1.2
	0628	2.1		0610	1.8
	1300	0.3		1242	0.5
	1929	2.2		1939	2.1
4 TU	0124	0.9	**19** WE	0131	1.1
	0657	2.0		0634	1.8
	1330	0.2		1300	0.4
	2013	2.4		2003	2.2
5 WE	0217	1.0	**20** TH	0206	1.1
	0728	1.9		0704	1.7
	1401	0.2		1326	0.3
	2057	2.5		2031	2.3
6 TH	0312	1.1	**21** FR	0243	1.0
	0802	1.7		0740	1.7
	1434	0.3		1358	0.2
	2141	2.5		2105	2.4
7 FR	0408	1.1	**22** SA	0324	0.9
	0841	1.6		0822	1.7
	1509	0.4		1436	0.2
	2226	2.4		2145	2.4
8 SA	0507	1.1	**23** SU	0410	0.9
	0922	1.5		0908	1.6
	1545	0.5		1520	0.2
	2314	2.3		2233	2.3
9 SU	0612	1.1	**24** MO	0504	0.9
	1007	1.3		0959	1.6
	1624	0.7		1610	0.3
				2330	2.3
10 MO	0008	2.2	**25** TU	0608	1.0
	0729	1.1		1056	1.5
	1056	1.3		1706	0.4
	1707	0.9			
11 TU	0114	2.1	**26** WE	0036	2.2
	0906	1.1		0725	1.0
	1221	1.2		1208	1.4
	1800	1.0		1812	0.6
12 WE	0230	2.0	**27** TH	0148	2.1
	1044	1.1		0846	0.9
	1600	1.2		1345	1.3
	1929	1.1		1932	0.7
13 TH	0339	1.9	**28** FR	0256	2.1
	1134	1.0		0955	0.8
	1723	1.3		1532	1.4
	2117	1.2		2102	0.9
14 FR	0432	1.9	**29** SA	0355	2.0
	1200	0.9		1050	0.7
	1807	1.4		1700	1.6
	2238	1.2		2230	1.0
15 SA	0509	1.9	**30** SU	0445	1.9
	1214	0.8		1134	0.5
	1836	1.6		1807	1.8
	2336	1.2		2351	1.1

JULY

	Time	m		Time	m
1 MO	0530	1.9	**16** TU	0054	1.3
	1211	0.4		0522	1.5
	1859	2.1		1155	0.6
				1914	2.0
2 TU	0101	1.1	**17** WE	0123	1.2
	0613	1.8		0556	1.5
	1246	0.3		1216	0.5
	1942	2.3		1931	2.1
3 WE	0157	1.0	**18** TH	0145	1.1
	0655	1.7		0631	1.6
	1320	0.3		1245	0.4
	2020	2.5		1953	2.3
4 TH	0244	1.0	**19** FR	0210	1.0
	0736	1.6		0708	1.6
	1355	0.3		1318	0.3
	2055	2.6		2021	2.4
5 FR	0325	1.0	**20** SA	0239	0.8
	0817	1.6		0747	1.7
	1430	0.3		1356	0.2
	2130	2.6		2055	2.5
6 SA	0402	0.9	**21** SU	0312	0.8
	0854	1.6		0827	1.8
	1504	0.4		1437	0.1
	2204	2.5		2134	2.5
7 SU	0437	1.0	**22** MO	0351	0.7
	0928	1.6		0908	1.8
	1537	0.5		1520	0.1
	2238	2.4		2217	2.4
8 MO	0512	1.0	**23** TU	0434	0.8
	0957	1.5		0951	1.8
	1608	0.6		1603	0.1
	2313	2.2		2303	2.3
9 TU	0550	1.1	**24** WE	0524	0.8
	1021	1.5		1038	1.7
	1635	0.7		1647	0.3
	2350	2.0		2352	2.2
10 WE	0638	1.2	**25** TH	0621	0.8
	1041	1.4		1133	1.5
	1656	0.9		1734	0.5
11 TH	0032	1.9	**26** FR	0045	2.1
	0752	1.2		0731	0.9
	1056	1.3		1254	1.4
	1705	1.0		1832	0.8
12 FR	0125	1.8	**27** SA	0144	1.9
	1335	1.1		0852	0.8
				1510	1.4
				2025	1.1
13 SA	0242	1.7	**28** SU	0259	1.7
	1125	1.0		1011	0.7
	1900	1.4		1718	1.7
	2133	1.4		2313	1.2
14 SU	0356	1.6	**29** MO	0424	1.6
	1131	0.9		1113	0.6
	1852	1.6		1825	2.0
15 MO	0004	1.3	**30** TU	0051	1.1
	0445	1.5		0538	1.5
	1140	0.8		1201	0.5
	1901	1.8		1907	2.3
			31 WE	0141	1.0
				0634	1.5
				1242	0.4
				1940	2.4

AUGUST

	Time	m		Time	m
1 TH	0215	0.9	**16** FR	0138	0.9
	0716	1.6		0641	1.5
	1318	0.4		1239	0.4
	2010	2.6		1938	2.3
2 FR	0242	0.8	**17** SA	0156	0.8
	0750	1.7		0713	1.7
	1352	0.3		1316	0.2
	2038	2.6		2006	2.4
3 SA	0306	0.8	**18** SU	0220	0.7
	0819	1.7		0745	1.8
	1423	0.3		1352	0.1
	2105	2.5		2039	2.5
4 SU	0329	0.8	**19** MO	0250	0.6
	0844	1.8		0819	1.9
	1451	0.4		1429	0.0
	2132	2.5		2113	2.5
5 MO	0352	0.8	**20** TU	0323	0.6
	0906	1.8		0855	2.0
	1516	0.4		1506	0.0
	2157	2.3		2149	2.5
6 TU	0416	0.9	**21** WE	0400	0.6
	0926	1.7		0934	2.0
	1538	0.5		1543	0.1
	2221	2.2		2225	2.4
7 WE	0441	1.0	**22** TH	0441	0.6
	0945	1.6		1017	1.9
	1557	0.6		1621	0.3
	2244	2.0		2301	2.2
8 TH	0510	1.0	**23** FR	0525	0.7
	1006	1.5		1110	1.7
	1611	0.8		1702	0.7
	2305	1.9		2335	1.9
9 FR	0545	1.1	**24** SA	0617	0.7
	1033	1.4		1231	1.5
	1614	1.0		1756	1.1
	2321	1.7			
10 SA	0636	1.1	**25** SU	0009	1.6
	1118	1.3		0734	0.8
	1528	1.2		1525	1.6
	2322	1.6		2228	1.3
11 SU	0806	1.1	**26** MO	0140	1.3
	1939	1.5		0932	0.8
				1729	1.9
12 MO	0949	1.0	**27** TU	0052	1.1
	1837	1.7		0503	1.3
				1100	0.7
				1816	2.2
13 TU	0148	1.2	**28** WE	0116	0.9
	0415	1.3		0612	1.4
	1047	0.8		1155	0.6
	1840	1.9		1850	2.4
14 WE	0125	1.1	**29** TH	0137	0.8
	0530	1.3		0651	1.5
	1127	0.7		1236	0.5
	1854	2.0		1919	2.5
15 TH	0127	1.0	**30** FR	0156	0.7
	0609	1.4		0719	1.7
	1203	0.6		1310	0.4
	1914	2.2		1945	2.5
			31 SA	0214	0.7
				0742	1.8
				1340	0.4
				2010	2.5

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I

SEE CHAPTER 5

55583

PAPUA NEW GUINEA - PADANA NAHUA PASSAGE

LAT 9° 34´ S LONG 147° 17´ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

SEPTEMBER

	Time	m		Time	m
1 SU	0232	0.7	**16** MO	0154	0.5
	0802	1.9		0731	2.0
	1405	0.4		1337	0.1
	2033	2.4		2013	2.5
2 MO	0250	0.7	**17** TU	0222	0.5
	0820	1.9		0803	2.1
	1427	0.4		1410	0.0
	2055	2.4		2043	2.5
3 TU	0308	0.8	**18** WE	0253	0.4
	0838	1.9		0839	2.1
	1447	0.5		1445	0.1
	2114	2.3		2112	2.4
4 WE	0327	0.8	**19** TH	0326	0.4
	0858	1.8		0919	2.1
	1505	0.6		1521	0.3
	2132	2.1		2141	2.2
5 TH	0347	0.8	**20** FR	0400	0.4
	0921	1.8		1005	2.0
	1523	0.7		1601	0.6
	2148	2.0		2207	2.0
6 FR	0408	0.8	**21** SA	0435	0.5
	0951	1.7		1102	1.9
	1541	0.9		1650	1.0
	2202	1.9		2226	1.7
7 SA	0431	0.8	**22** SU	0514	0.6
	1029	1.6		1236	1.7
	1558	1.1		1838	1.3
	2209	1.7		2211	1.4
8 SU	0455	0.8	**23** MO	0608	0.8
	1126	1.5		1525	1.8
	1604	1.3			
	2151	1.5			
9 MO	0523	0.9	**24** TU	0114	1.0
	1747	1.5		0340	1.1
				0852	0.9
				1655	2.1
10 TU	0701	1.0	**25** WE	0040	0.9
	1739	1.7		0536	1.3
				1041	0.8
				1742	2.2
11 WE	0150	1.0	**26** TH	0050	0.7
	0505	1.1		0614	1.5
	0956	0.9		1139	0.7
	1759	1.9		1817	2.3
12 TH	0101	0.9	**27** FR	0106	0.6
	0546	1.2		0640	1.6
	1108	0.8		1219	0.6
	1823	2.1		1848	2.4
13 FR	0100	0.8	**28** SA	0124	0.6
	0612	1.4		0702	1.8
	1153	0.6		1251	0.6
	1849	2.2		1914	2.4
14 SA	0111	0.7	**29** SU	0141	0.6
	0636	1.6		0721	1.9
	1230	0.4		1317	0.5
	1916	2.3		1937	2.4
15 SU	0130	0.6	**30** MO	0158	0.7
	0702	1.8		0739	1.9
	1304	0.2		1339	0.5
	1944	2.4		1957	2.3

OCTOBER

	Time	m		Time	m
1 TU	0213	0.7	**16** WE	0154	0.3
	0757	1.9		0750	2.2
	1358	0.6		1350	0.3
	2014	2.2		2006	2.4
2 WE	0229	0.7	**17** TH	0223	0.2
	0817	1.9		0829	2.2
	1417	0.6		1428	0.4
	2029	2.2		2031	2.2
3 TH	0245	0.6	**18** FR	0253	0.2
	0841	1.9		0913	2.2
	1438	0.7		1511	0.7
	2044	2.0		2057	2.0
4 FR	0302	0.6	**19** SA	0325	0.2
	0911	1.9		1004	2.2
	1504	0.9		1604	0.9
	2059	1.9		2120	1.8
5 SA	0321	0.5	**20** SU	0357	0.4
	0947	1.9		1108	2.1
	1535	1.0		1722	1.2
	2113	1.8		2134	1.5
6 SU	0341	0.5	**21** MO	0432	0.6
	1031	1.8		1243	2.0
	1618	1.2			
	2123	1.6			
7 MO	0403	0.6	**22** TU	0520	0.8
	1129	1.7		1443	2.0
	1754	1.3			
	2107	1.4			
8 TU	0426	0.7	**23** WE	0000	0.9
	1325	1.7		0405	1.1
				0801	1.0
				1604	2.1
				2353	0.8
9 WE	0458	0.9	**24** TH	0516	1.3
	1611	1.8		1004	1.0
				1658	2.2
10 TH	0033	1.0	**25** FR	0010	0.7
	0452	1.1		0549	1.5
	0915	0.9		1107	0.9
	1707	1.9		1739	2.2
11 FR	0010	0.8	**26** SA	0031	0.7
	0524	1.3		0616	1.6
	1042	0.8		1150	0.8
	1745	2.1		1812	2.2
12 SA	0020	0.7	**27** SU	0052	0.7
	0549	1.5		0640	1.7
	1131	0.6		1223	0.8
	1817	2.2		1840	2.2
13 SU	0039	0.6	**28** MO	0111	0.7
	0615	1.7		0702	1.8
	1208	0.4		1250	0.8
	1846	2.3		1901	2.2
14 MO	0102	0.5	**29** TU	0127	0.7
	0643	1.9		0723	1.9
	1242	0.3		1312	0.8
	1913	2.4		1917	2.1
15 TU	0127	0.4	**30** WE	0140	0.6
	0715	2.0		0744	1.9
	1315	0.2		1334	0.8
	1939	2.4		1931	2.1
			31 TH	0153	0.5
				0808	2.0
				1359	0.9
				1945	2.0

NOVEMBER

	Time	m		Time	m
1 FR	0207	0.5	**16** SA	0228	0.1
	0836	2.0		0918	2.4
	1429	1.0		1526	1.0
	2001	1.9		2027	1.8
2 SA	0225	0.4	**17** SU	0302	0.2
	0908	2.1		1010	2.4
	1505	1.0		1633	1.1
	2021	1.8		2101	1.5
3 SU	0246	0.3	**18** MO	0338	0.4
	0945	2.1		1110	2.3
	1551	1.1		1800	1.2
	2045	1.6		2139	1.3
4 MO	0312	0.4	**19** TU	0420	0.6
	1028	2.1		1221	2.2
	1652	1.2		2012	1.1
	2111	1.5		2241	1.2
5 TU	0342	0.5	**20** WE	0515	0.8
	1123	2.0		1345	2.1
	1833	1.2		2203	1.0
	2140	1.3			
6 WE	0422	0.6	**21** TH	0236	1.1
	1249	1.9		0652	1.0
				1503	2.1
				2253	0.9
7 TH	0538	0.8	**22** FR	0421	1.3
	1448	1.9		0853	1.1
	2240	1.0		1606	2.1
				2330	0.9
8 FR	0306	1.1	**23** SA	0516	1.4
	0829	0.9		1015	1.0
	1609	2.0		1656	2.1
	2310	0.8			
9 SA	0429	1.3	**24** SU	0002	0.8
	0959	0.8		0556	1.5
	1700	2.1		1111	1.0
	2339	0.7		1734	2.0
10 SU	0513	1.5	**25** MO	0027	0.8
	1054	0.6		0629	1.6
	1737	2.2		1154	1.0
				1803	2.0
11 MO	0006	0.6	**26** TU	0046	0.7
	0551	1.7		0657	1.7
	1138	0.5		1229	1.1
	1809	2.3		1823	2.0
12 TU	0033	0.5	**27** WE	0059	0.7
	0628	1.9		0722	1.8
	1218	0.5		1300	1.1
	1836	2.3		1838	1.9
13 WE	0100	0.3	**28** TH	0109	0.6
	0706	2.1		0745	2.0
	1258	0.6		1330	1.1
	1903	2.2		1852	1.9
14 TH	0128	0.2	**29** FR	0120	0.5
	0747	2.2		0808	2.1
	1342	0.7		1402	1.1
	1929	2.1		1910	1.8
15 FR	0157	0.1	**30** SA	0136	0.4
	0831	2.3		0833	2.2
	1430	0.8		1437	1.1
	1957	2.0		1935	1.7

DECEMBER

	Time	m		Time	m
1 SU	0158	0.3	**16** MO	0255	0.3
	0903	2.3		1006	2.5
	1516	1.1		1641	1.0
	2006	1.7		2118	1.5
2 MO	0227	0.3	**17** TU	0335	0.4
	0938	2.3		1052	2.4
	1601	1.1		1734	1.0
	2044	1.6		2205	1.4
3 TU	0302	0.3	**18** WE	0416	0.6
	1021	2.2		1141	2.3
	1655	1.1		1833	1.1
	2129	1.5		2253	1.4
4 WE	0344	0.4	**19** TH	0459	0.7
	1114	2.2		1237	2.2
	1804	1.1		1945	1.1
	2224	1.4		2349	1.3
5 TH	0438	0.5	**20** FR	0545	0.9
	1224	2.1		1344	2.0
	1934	1.1		2120	1.1
	2341	1.3			
6 FR	0552	0.7	**21** SA	0216	1.2
	1349	2.0		0644	1.1
	2103	1.0		1457	1.9
				2255	1.0
7 SA	0137	1.2	**22** SU	0452	1.3
	0732	0.8		0826	1.2
	1508	2.0		1602	1.9
	2208	0.9		2344	1.0
8 SU	0325	1.3	**23** MO	0607	1.4
	0903	0.8		1024	1.3
	1607	2.1		1650	1.8
	2256	0.7			
9 MO	0439	1.5	**24** TU	0008	0.9
	1013	0.8		0645	1.6
	1652	2.1		1148	1.3
	2333	0.6		1724	1.8
10 TU	0536	1.7	**25** WE	0021	0.8
	1113	0.8		0709	1.8
	1729	2.1		1243	1.3
				1748	1.7
11 WE	0006	0.4	**26** TH	0029	0.7
	0626	1.9		0728	1.9
	1210	0.9		1321	1.2
	1802	2.0		1808	1.7
12 TH	0037	0.3	**27** FR	0038	0.6
	0712	2.1		0744	2.1
	1306	0.9		1349	1.2
	1835	1.9		1830	1.7
13 FR	0108	0.2	**28** SA	0053	0.5
	0756	2.3		0802	2.2
	1401	1.0		1414	1.1
	1910	1.8		1858	1.7
14 SA	0141	0.2	**29** SU	0116	0.4
	0839	2.5		0825	2.3
	1455	1.0		1441	1.0
	1949	1.7		1932	1.7
15 SU	0217	0.2	**30** MO	0146	0.3
	0922	2.5		0853	2.4
	1548	1.0		1513	1.0
	2032	1.6		2010	1.7
			31 TU	0222	0.2
				0928	2.4
				1550	0.9
				2052	1.7

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55583

PAPUA NEW GUINEA - DOINI ISLAND

LAT 10° 42´ S LONG 150° 42´ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

JANUARY

	Time	m		Time	m
1 MO	1326	1.4	**16** TU	0023	1.0
				0610	0.5
				1335	1.6
				2102	0.7
2 TU	0519	0.7	**17** WE	0224	1.0
	1411	1.4		0724	0.7
	2324	0.7		1434	1.4
				2204	0.6
3 WE	1451	1.4	**18** TH	0435	1.1
	2321	0.7		0924	0.9
				1534	1.3
				2253	0.5
4 TH	1526	1.3	**19** FR	0559	1.3
	2327	0.6		1144	0.9
				1633	1.2
				2333	0.4
5 FR	0651	1.1	**20** SA	0652	1.5
	1045	1.1		1318	0.9
	1557	1.3		1728	1.1
	2337	0.5			
6 SA	0705	1.3	**21** SU	0008	0.3
	1211	1.1		0731	1.6
	1630	1.2		1415	0.8
	2352	0.5		1818	1.1
7 SU	0720	1.4	**22** MO	0041	0.3
	1307	1.0		0804	1.7
	1708	1.2		1455	0.8
				1900	1.0
8 MO	0014	0.4	**23** TU	0114	0.3
	0738	1.5		0833	1.7
	1349	1.0		1525	0.8
	1751	1.2		1936	1.0
9 TU	0043	0.3	**24** WE	0146	0.2
	0805	1.7		0901	1.7
	1427	0.9		1550	0.8
	1839	1.2		2007	1.1
10 WE	0120	0.2	**25** TH	0217	0.2
	0839	1.8		0929	1.7
	1507	0.9		1614	0.8
	1928	1.2		2035	1.1
11 TH	0203	0.1	**26** FR	0247	0.3
	0919	1.8		0957	1.7
	1551	0.9		1639	0.9
	2018	1.2		2059	1.1
12 FR	0248	0.1	**27** SA	0315	0.3
	1003	1.9		1026	1.6
	1640	0.8		1708	0.9
	2108	1.2		2122	1.1
13 SA	0335	0.1	**28** SU	0341	0.4
	1052	1.9		1053	1.6
	1735	0.8		1740	0.9
	2202	1.1		2144	1.0
14 SU	0424	0.2	**29** MO	0404	0.5
	1144	1.8		1120	1.5
	1837	0.8		1820	0.9
	2303	1.1		2210	1.0
15 MO	0514	0.3	**30** TU	0425	0.6
	1238	1.7		1145	1.5
	1948	0.8		1911	0.9
				2253	1.0
			31 WE	0438	0.8
				1206	1.4
				2019	0.9

FEBRUARY

	Time	m		Time	m
1 TH	1222	1.3	**16** FR	0433	1.3
	2121	0.8		1119	1.0
				1451	1.1
				2203	0.6
2 FR	1218	1.2	**17** SA	0552	1.5
	2204	0.7		1309	0.9
				1647	1.0
				2305	0.5
3 SA	0650	1.3	**18** SU	0639	1.6
	2238	0.6		1350	0.8
				1759	1.0
				2353	0.5
4 SU	0647	1.4	**19** MO	0713	1.7
	1340	1.1		1418	0.7
	1538	1.1		1842	1.0
	2314	0.5			
5 MO	0700	1.5	**20** TU	0031	0.4
	1338	1.0		0742	1.7
	1706	1.1		1438	0.7
	2352	0.4		1912	1.1
6 TU	0720	1.7	**21** WE	0104	0.4
	1353	0.9		0806	1.8
	1806	1.1		1452	0.7
				1937	1.1
7 WE	0032	0.3	**22** TH	0134	0.3
	0747	1.8		0829	1.7
	1417	0.8		1506	0.8
	1854	1.2		2001	1.2
8 TH	0114	0.2	**23** FR	0202	0.3
	0820	1.9		0852	1.7
	1447	0.8		1522	0.8
	1939	1.3		2023	1.2
9 FR	0157	0.1	**24** SA	0228	0.4
	0857	2.0		0914	1.7
	1523	0.7		1541	0.8
	2023	1.3		2047	1.2
10 SA	0240	0.1	**25** SU	0253	0.4
	0936	2.0		0936	1.7
	1602	0.7		1601	0.8
	2107	1.4		2111	1.2
11 SU	0323	0.1	**26** MO	0316	0.5
	1016	1.9		0956	1.6
	1644	0.7		1623	0.8
	2155	1.3		2138	1.2
12 MO	0407	0.2	**27** TU	0339	0.6
	1056	1.8		1013	1.5
	1731	0.7		1645	0.8
	2249	1.3		2210	1.2
13 TU	0453	0.4	**28** WE	0401	0.8
	1138	1.7		1026	1.5
	1823	0.7		1708	0.8
				2253	1.2
14 WE	0001	1.2	**29** TH	0420	0.9
	0547	0.7		1031	1.4
	1221	1.5		1736	0.8
	1926	0.7			
15 TH	0212	1.2			
	0718	0.9			
	1314	1.2			
	2044	0.6			

MARCH

	Time	m		Time	m
1 FR	0011	1.1	**16** SA	0407	1.5
	0427	1.1		1309	0.8
	1015	1.3		1515	0.9
	1812	0.8		2058	0.7
2 SA	0721	1.2	**17** SU	0519	1.6
	1922	0.8		1311	0.7
				1726	0.9
				2232	0.6
3 SU	0547	1.4	**18** MO	0605	1.7
	2120	0.7		1330	0.7
				1814	1.0
				2331	0.6
4 MO	0604	1.5	**19** TU	0639	1.7
	1350	0.9		1348	0.6
	1622	1.0		1842	1.1
	2241	0.6			
5 TU	0626	1.6	**20** WE	0012	0.5
	1325	0.9		0706	1.7
	1735	1.0		1400	0.7
	2335	0.5		1903	1.1
6 WE	0651	1.7	**21** TH	0044	0.5
	1333	0.8		0729	1.7
	1818	1.2		1410	0.7
				1924	1.2
7 TH	0020	0.3	**22** FR	0112	0.5
	0721	1.9		0749	1.7
	1353	0.7		1422	0.7
	1857	1.3		1946	1.3
8 FR	0102	0.2	**23** SA	0139	0.5
	0752	1.9		0809	1.7
	1419	0.7		1437	0.7
	1935	1.4		2009	1.3
9 SA	0143	0.2	**24** SU	0204	0.5
	0825	2.0		0827	1.7
	1450	0.6		1454	0.7
	2016	1.5		2034	1.4
10 SU	0224	0.2	**25** MO	0229	0.6
	0859	2.0		0845	1.6
	1524	0.6		1511	0.7
	2058	1.5		2101	1.4
11 MO	0306	0.3	**26** TU	0255	0.7
	0934	1.9		0900	1.5
	1559	0.5		1528	0.7
	2145	1.5		2131	1.4
12 TU	0351	0.5	**27** WE	0322	0.9
	1007	1.7		0912	1.5
	1636	0.5		1546	0.6
	2239	1.5		2206	1.4
13 WE	0441	0.7	**28** TH	0352	1.0
	1038	1.5		0918	1.4
	1715	0.5		1606	0.6
	2355	1.4		2250	1.4
14 TH	0551	0.9	**29** FR	0431	1.1
	1104	1.3		0912	1.3
	1800	0.6		1629	0.6
15 FR	0209	1.4	**30** SA	0006	1.3
	1905	0.7		0550	1.2
				0735	1.2
				1659	0.7
			31 SU	0313	1.4
				1753	0.7

APRIL

	Time	m		Time	m
1 MO	0432	1.5	**16** TU	0520	1.6
	2021	0.7		1254	0.6
				1801	1.0
				2253	0.7
2 TU	0514	1.6	**17** WE	0555	1.6
	1258	0.8		1308	0.6
	1655	0.9		1824	1.1
	2213	0.6		2339	0.7
3 WE	0548	1.7	**18** TH	0622	1.6
	1252	0.7		1319	0.6
	1737	1.1		1846	1.1
	2315	0.5			
4 TH	0618	1.8	**19** FR	0014	0.6
	1304	0.7		0644	1.6
	1813	1.2		1329	0.6
				1909	1.2
5 FR	0002	0.4	**20** SA	0044	0.7
	0648	1.9		0706	1.6
	1324	0.6		1342	0.6
	1849	1.3		1934	1.3
6 SA	0044	0.3	**21** SU	0114	0.7
	0719	1.9		0722	1.6
	1349	0.5		1357	0.6
	1927	1.5		1959	1.4
7 SU	0126	0.3	**22** MO	0143	0.8
	0749	1.9		0738	1.5
	1417	0.4		1412	0.5
	2008	1.6		2026	1.4
8 MO	0209	0.4	**23** TU	0214	0.8
	0820	1.8		0753	1.5
	1447	0.4		1427	0.5
	2051	1.6		2055	1.5
9 TU	0255	0.5	**24** WE	0246	0.9
	0851	1.7		0806	1.4
	1518	0.3		1444	0.5
	2140	1.7		2127	1.5
10 WE	0346	0.7	**25** TH	0323	1.0
	0920	1.5		0817	1.3
	1551	0.4		1505	0.5
	2238	1.6		2205	1.5
11 TH	0454	0.9	**26** FR	0410	1.1
	0944	1.2		0823	1.2
	1624	0.4		1529	0.5
				2255	1.5
12 FR	0001	1.6	**27** SA	0541	1.1
	0716	1.0		0801	1.1
	0943	1.0		1600	0.5
	1658	0.5			
13 SA	0149	1.6	**28** SU	0016	1.5
	1740	0.6		1640	0.6
14 SU	0322	1.6	**29** MO	0207	1.5
	1231	0.7		1751	0.6
	1551	0.8			
	1938	0.7			
15 MO	0432	1.6	**30** TU	0330	1.5
	1237	0.6		1222	0.8
	1729	0.9		1507	0.8
	2143	0.7		2000	0.7

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55659

PAPUA NEW GUINEA - DOINI ISLAND

LAT 10° 42´ S LONG 150° 42´ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

MAY

	Time	m		Time	m
1 WE	0427	1.6	**16** TH	0503	1.5
	1207	0.7		1228	0.6
	1636	0.9		1803	1.0
	2142	0.6		2251	0.8
2 TH	0508	1.7	**17** FR	0532	1.5
	1216	0.6		1239	0.6
	1724	1.1		1834	1.1
	2249	0.6		2338	0.8
3 FR	0542	1.7	**18** SA	0555	1.5
	1233	0.5		1251	0.5
	1804	1.2		1904	1.2
	2342	0.5			
4 SA	0613	1.7	**19** SU	0020	0.8
	1254	0.5		0615	1.4
	1844	1.4		1305	0.5
				1932	1.3
5 SU	0029	0.5	**20** MO	0059	0.9
	0643	1.7		0633	1.4
	1318	0.4		1319	0.5
	1924	1.5		1959	1.4
6 MO	0116	0.6	**21** TU	0137	0.9
	0713	1.6		0649	1.3
	1345	0.3		1333	0.4
	2007	1.6		2025	1.5
7 TU	0206	0.7	**22** WE	0216	1.0
	0743	1.5		0706	1.3
	1414	0.2		1350	0.4
	2053	1.7		2053	1.6
8 WE	0302	0.8	**23** TH	0259	1.0
	0814	1.4		0723	1.2
	1445	0.2		1412	0.3
	2144	1.7		2126	1.6
9 TH	0410	0.9	**24** FR	0349	1.0
	0843	1.2		0744	1.2
	1517	0.2		1441	0.3
	2244	1.7		2208	1.6
10 FR	0553	0.9	**25** SA	0459	1.0
	0907	1.0		0807	1.1
	1551	0.3		1516	0.3
	2356	1.7		2302	1.6
11 SA	1626	0.4	**26** SU	0646	1.0
				0825	1.0
				1600	0.4
12 SU	0114	1.6	**27** MO	0010	1.6
	1707	0.6		1654	0.5
13 MO	0229	1.6	**28** TU	0127	1.6
	1141	0.7		1808	0.5
	1449	0.7			
	1825	0.7			
14 TU	0335	1.6	**29** WE	0240	1.6
	1156	0.6		1055	0.8
	1642	0.8		1428	0.8
	2024	0.7		1938	0.6
15 WE	0426	1.5	**30** TH	0339	1.6
	1213	0.6		1117	0.7
	1730	0.9		1608	0.9
	2151	0.8		2107	0.7
			31 FR	0426	1.6
				1140	0.6
				1714	1.1
				2225	0.7

JUNE

	Time	m		Time	m
1 SA	0504	1.6	**16** SU	0458	1.4
	1203	0.5		1214	0.5
	1805	1.2		1915	1.3
	2331	0.7			
2 SU	0538	1.5	**17** MO	0017	1.0
	1227	0.4		0522	1.3
	1851	1.4		1228	0.5
				1940	1.4
3 MO	0032	0.8	**18** TU	0112	1.0
	0610	1.5		0543	1.3
	1252	0.3		1242	0.4
	1934	1.6		2002	1.5
4 TU	0131	0.8	**19** WE	0159	1.0
	0643	1.4		0606	1.2
	1320	0.2		1300	0.4
	2018	1.7		2023	1.6
5 WE	0232	0.8	**20** TH	0241	1.0
	0718	1.2		0634	1.2
	1351	0.2		1324	0.3
	2103	1.8		2049	1.7
6 TH	0339	0.9	**21** FR	0320	1.0
	0754	1.1		0708	1.2
	1425	0.2		1356	0.3
	2150	1.8		2121	1.8
7 FR	0452	0.9	**22** SA	0403	1.0
	0832	1.0		0749	1.1
	1500	0.2		1434	0.3
	2240	1.8		2202	1.8
8 SA	0611	0.9	**23** SU	0452	1.0
	0911	0.9		0836	1.1
	1537	0.3		1518	0.3
	2332	1.7		2251	1.8
9 SU	0745	0.8	**24** MO	0551	0.9
	0951	0.9		0929	1.1
	1615	0.4		1606	0.3
				2345	1.8
10 MO	0028	1.6	**25** TU	0701	0.9
	0954	0.8		1033	1.0
	1047	0.8		1659	0.4
	1655	0.5			
11 TU	0126	1.6	**26** WE	0045	1.7
	1046	0.8		0821	0.9
	1246	0.8		1159	1.0
	1739	0.6		1757	0.5
12 WE	0223	1.5	**27** TH	0147	1.7
	1113	0.7		0931	0.8
	1504	0.8		1351	0.9
	1836	0.7		1906	0.7
13 TH	0315	1.5	**28** FR	0246	1.6
	1133	0.7		1022	0.7
	1700	0.9		1553	1.0
	2004	0.9		2036	0.8
14 FR	0357	1.4	**29** SA	0339	1.5
	1148	0.6		1101	0.6
	1802	1.0		1722	1.2
	2148	0.9		2223	0.9
15 SA	0431	1.4	**30** SU	0427	1.4
	1201	0.6		1133	0.5
	1843	1.2		1823	1.4
	2312	1.0		2359	0.9

JULY

	Time	m		Time	m
1 MO	0511	1.3	**16** TU	0128	1.1
	1204	0.4		0420	1.2
	1911	1.6		1149	0.6
				1934	1.5
2 TU	0118	0.9	**17** WE	0205	1.1
	0554	1.2		0505	1.2
	1234	0.3		1210	0.5
	1950	1.7		1948	1.7
3 WE	0222	0.9	**18** TH	0225	1.1
	0637	1.2		0550	1.2
	1307	0.2		1236	0.4
	2027	1.8		2006	1.8
4 TH	0315	0.9	**19** FR	0243	1.0
	0720	1.1		0634	1.2
	1341	0.2		1309	0.3
	2103	1.9		2032	1.8
5 FR	0400	0.8	**20** SA	0306	1.0
	0802	1.1		0719	1.2
	1416	0.2		1347	0.3
	2140	1.9		2104	1.9
6 SA	0443	0.8	**21** SU	0337	0.9
	0841	1.0		0803	1.3
	1452	0.3		1429	0.2
	2217	1.8		2141	2.0
7 SU	0525	0.9	**22** MO	0416	0.9
	0917	1.0		0849	1.3
	1526	0.3		1512	0.2
	2254	1.8		2223	2.0
8 MO	0611	0.9	**23** TU	0500	0.9
	0950	1.0		0937	1.3
	1559	0.4		1557	0.3
	2332	1.7		2307	1.9
9 TU	0708	0.9	**24** WE	0553	0.9
	1021	1.0		1031	1.2
	1628	0.5		1643	0.4
				2355	1.8
10 WE	0011	1.6	**25** TH	0654	0.9
	0830	0.9		1140	1.1
	1057	0.9		1733	0.6
	1653	0.7			
11 TH	0050	1.5	**26** FR	0045	1.7
	1001	0.9		0805	0.8
	1231	0.9		1329	1.1
	1711	0.8		1838	0.8
12 FR	0130	1.4	**27** SA	0142	1.5
	1039	0.8		0917	0.7
				1603	1.2
				2043	1.1
13 SA	0211	1.4	**28** SU	0249	1.4
	1059	0.8		1017	0.6
				1738	1.4
				2339	1.1
14 SU	0253	1.3	**29** MO	0404	1.2
	1116	0.7		1106	0.5
	1911	1.3		1834	1.6
	2359	1.2			
15 MO	0336	1.2	**30** TU	0114	1.0
	1132	0.6		0516	1.2
	1921	1.4		1148	0.5
				1914	1.8
			31 WE	0207	0.9
				0613	1.1
				1225	0.4
				1947	1.9

AUGUST

	Time	m		Time	m
1 TH	0243	0.8	**16** FR	0205	1.0
	0657	1.1		0603	1.2
	1301	0.4		1219	0.5
	2017	1.9		1938	1.9
2 FR	0312	0.8	**17** SA	0214	1.0
	0733	1.1		0642	1.3
	1334	0.3		1256	0.4
	2045	1.9		2004	2.0
3 SA	0335	0.8	**18** SU	0233	0.9
	0804	1.2		0720	1.4
	1407	0.3		1334	0.3
	2113	1.9		2035	2.0
4 SU	0358	0.9	**19** MO	0301	0.9
	0832	1.2		0800	1.4
	1437	0.4		1414	0.2
	2140	1.9		2109	2.1
5 MO	0422	0.9	**20** TU	0335	0.8
	0859	1.2		0841	1.5
	1505	0.4		1455	0.3
	2207	1.8		2145	2.0
6 TU	0448	0.9	**21** WE	0413	0.8
	0924	1.2		0927	1.5
	1530	0.5		1537	0.4
	2232	1.7		2222	2.0
7 WE	0518	1.0	**22** TH	0455	0.8
	0949	1.2		1018	1.4
	1552	0.7		1622	0.6
	2255	1.6		2259	1.8
8 TH	0552	1.0	**23** FR	0542	0.8
	1018	1.1		1126	1.4
	1609	0.8		1714	0.9
	2314	1.6		2338	1.6
9 FR	0634	1.0	**24** SA	0639	0.8
	1103	1.1		1334	1.3
	1609	1.0		1843	1.1
	2324	1.5			
10 SA	0736	1.0	**25** SU	0021	1.4
	2310	1.4		0758	0.8
				1608	1.5
				2334	1.1
11 SU	0903	0.9	**26** MO	0207	1.2
	2022	1.4		0928	0.7
				1729	1.7
12 MO	1002	0.9	**27** TU	0057	1.0
	1858	1.5		0435	1.1
				1042	0.6
				1817	1.8
13 TU	1039	0.8	**28** WE	0132	0.9
	1855	1.6		0550	1.1
				1135	0.6
				1854	1.9
14 WE	1111	0.7	**29** TH	0159	0.8
	1904	1.7		0633	1.1
				1216	0.5
				1924	1.9
15 TH	0215	1.1	**30** FR	0221	0.8
	0517	1.1		0703	1.2
	1144	0.6		1250	0.5
	1918	1.8		1950	1.9
			31 SA	0238	0.8
				0727	1.3
				1320	0.5
				2013	1.9

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55659

PAPUA NEW GUINEA - DOINI ISLAND

LAT 10° 42´ S LONG 150° 42´ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

SEPTEMBER

	Time	m		Time	m
1 SU	0251 0750 1347 2034	0.8 1.3 0.5 1.9	**16** MO	0157 0711 1315 1958	0.8 1.5 0.4 2.1
2 MO	0306 0813 1413 2055	0.9 1.3 0.5 1.8	**17** TU	0223 0749 1355 2029	0.7 1.6 0.4 2.1
3 TU	0324 0836 1437 2114	0.9 1.4 0.6 1.8	**18** WE	0254 0830 1436 2101	0.7 1.6 0.5 2.0
4 WE	0343 0901 1459 2132	0.9 1.4 0.7 1.7	**19** TH	0328 0916 1520 2133	0.6 1.6 0.6 1.8
5 TH	0402 0928 1519 2145	0.9 1.3 0.9 1.6	**20** FR	0403 1009 1611 2203	0.6 1.6 0.8 1.6
6 FR	0421 0959 1535 2150	0.9 1.3 1.0 1.5	**21** SA	0441 1123 1722 2227	0.6 1.6 1.1 1.4
7 SA	0440 1039 1537 2136	0.9 1.3 1.2 1.4	**22** SU	0525 1344	0.7 1.6
8 SU	0459 2024	0.9 1.4	**23** MO	0630 1543	0.7 1.7
9 MO	0523 1838	0.9 1.5	**24** TU	0044 0306 0834 1656	0.9 1.0 0.8 1.8
10 TU	0612 1801	0.9 1.6	**25** WE	0045 0510 1014 1744	0.8 1.0 0.7 1.9
11 WE	0913 1807	0.9 1.6	**26** TH	0106 0558 1115 1820	0.7 1.1 0.7 1.9
12 TH	0211 0501 1033 1822	1.0 1.0 0.8 1.7	**27** FR	0126 0627 1157 1849	0.7 1.2 0.6 1.9
13 FR	0133 0534 1120 1840	1.0 1.1 0.7 1.8	**28** SA	0143 0650 1229 1912	0.7 1.3 0.6 1.8
14 SA	0127 0604 1159 1903	0.9 1.2 0.5 1.9	**29** SU	0154 0711 1257 1931	0.7 1.3 0.6 1.8
15 SU	0137 0636 1237 1929	0.9 1.4 0.4 2.0	**30** MO	0205 0732 1322 1949	0.8 1.4 0.6 1.8

OCTOBER

	Time	m		Time	m
1 TU	0218 0755 1347 2005	0.8 1.4 0.7 1.7	**16** WE	0147 0740 1338 1948	0.5 1.6 0.6 1.9
2 WE	0233 0821 1411 2020	0.8 1.4 0.8 1.7	**17** TH	0216 0824 1425 2018	0.5 1.7 0.7 1.7
3 TH	0249 0847 1436 2031	0.8 1.5 0.9 1.6	**18** FR	0247 0912 1517 2047	0.4 1.8 0.8 1.5
4 FR	0304 0916 1500 2036	0.7 1.5 1.0 1.5	**19** SA	0320 1009 1626 2113	0.4 1.7 1.0 1.3
5 SA	0318 0949 1526 2028	0.7 1.5 1.2 1.4	**20** SU	0355 1130 1900 2114	0.5 1.7 1.1 1.1
6 SU	0333 1030 1555 1945	0.7 1.4 1.3 1.4	**21** MO	0433 1325	0.5 1.7
7 MO	0349 1153 1659 1749	0.7 1.4 1.4 1.4	**22** TU	0523 1500 2358	0.7 1.7 0.8
8 TU	0407 1606	0.8 1.5	**23** WE	0326 0728 1611	0.8 0.8 1.7
9 WE	0429 1643	0.8 1.6	**24** TH	0009 0503 0926 1701	0.7 0.9 0.8 1.7
10 TH	0228 0422 0730 1710	0.9 0.9 0.9 1.6	**25** FR	0029 0542 1037 1738	0.6 1.0 0.7 1.7
11 FR	0104 0456 0951 1734	0.9 1.0 0.8 1.7	**26** SA	0048 0609 1123 1805	0.6 1.1 0.7 1.7
12 SA	0046 0522 1050 1758	0.8 1.1 0.7 1.8	**27** SU	0101 0633 1158 1826	0.6 1.2 0.7 1.7
13 SU	0048 0551 1134 1824	0.8 1.2 0.6 1.9	**28** MO	0112 0657 1229 1844	0.6 1.3 0.7 1.6
14 MO	0101 0624 1215 1850	0.7 1.4 0.5 1.9	**29** TU	0123 0722 1259 1900	0.6 1.4 0.8 1.6
15 TU	0122 0701 1256 1919	0.6 1.5 0.5 1.9	**30** WE	0137 0748 1328 1915	0.6 1.4 0.9 1.5
			31 TH	0151 0815 1359 1926	0.6 1.5 1.0 1.5

NOVEMBER

	Time	m		Time	m
1 FR	0205 0843 1431 1933	0.6 1.5 1.1 1.4	**16** SA	0217 0917 1542 2014	0.2 1.8 0.9 1.2
2 SA	0219 0913 1507 1932	0.5 1.5 1.1 1.3	**17** SU	0252 1016 1721 2043	0.2 1.8 1.0 1.1
3 SU	0236 0948 1552 1915	0.5 1.5 1.2 1.3	**18** MO	0329 1127	0.3 1.8
4 MO	0257 1034	0.5 1.5	**19** TU	0410 1247	0.4 1.7
5 TU	0323 1155	0.6 1.5	**20** WE	0500 1404 2309	0.5 1.7 0.7
6 WE	0357 1357	0.6 1.5	**21** TH	0205 0619 1512 2329	0.7 0.7 1.6 0.6
7 TH	0454 1516	0.7 1.6	**22** FR	0406 0802 1605 2351	0.8 0.7 1.6 0.6
8 FR	0100 0218 0702 1606	0.8 0.8 0.7 1.6	**23** SA	0509 0928 1643	0.9 0.8 1.5
9 SA	0004 0410 0859 1643	0.8 0.9 0.7 1.7	**24** SU	0009 0550 1032 1712	0.6 1.0 0.8 1.5
10 SU	0001 0459 1012 1714	0.7 1.1 0.7 1.7	**25** MO	0022 0624 1122 1734	0.6 1.1 0.8 1.5
11 MO	0011 0539 1107 1742	0.6 1.2 0.6 1.7	**26** TU	0034 0656 1207 1754	0.5 1.2 0.9 1.4
12 TU	0028 0618 1156 1811	0.5 1.4 0.7 1.7	**27** WE	0047 0726 1249 1811	0.5 1.3 1.0 1.4
13 WE	0050 0658 1245 1840	0.4 1.5 0.7 1.7	**28** TH	0101 0754 1330 1825	0.5 1.4 1.0 1.3
14 TH	0116 0741 1337 1911	0.3 1.6 0.8 1.5	**29** FR	0115 0821 1412 1838	0.4 1.5 1.0 1.2
15 FR	0145 0827 1433 1943	0.2 1.8 0.8 1.4	**30** SA	0131 0847 1455 1849	0.4 1.6 1.1 1.2

DECEMBER

	Time	m		Time	m
1 SU	0151 0916 1543 1900	0.4 1.6 1.1 1.2	**16** MO	0241 1013 1726 2055	0.1 1.8 0.8 1.0
2 MO	0217 0952 1649 1913	0.3 1.6 1.1 1.1	**17** TU	0321 1104 1843 2141	0.2 1.8 0.8 0.9
3 TU	0250 1038	0.4 1.6	**18** WE	0403 1158 2018 2233	0.3 1.7 0.8 0.8
4 WE	0330 1139	0.4 1.6	**19** TH	0445 1254 2151 2351	0.4 1.6 0.8 0.8
5 TH	0419 1249	0.4 1.6	**20** FR	0528 1351 2240	0.5 1.5 0.7
6 FR	0521 1359 2306	0.5 1.6 0.8	**21** SA	0155 0615 1443 2308	0.8 0.7 1.4 0.7
7 SA	0101 0638 1459 2300	0.8 0.6 1.6 0.7	**22** SU	0423 0722 1526 2327	0.9 0.8 1.4 0.6
8 SU	0315 0806 1547 2315	0.9 0.7 1.6 0.6	**23** MO	0551 0912 1602 2341	1.0 0.9 1.3 0.6
9 MO	0439 0932 1626 2335	1.0 0.7 1.6 0.5	**24** TU	0638 1055 1633 2357	1.1 1.0 1.3 0.5
10 TU	0537 1050 1701 2358	1.2 0.8 1.5 0.4	**25** WE	0711 1213 1700	1.3 1.0 1.2
11 WE	0625 1158 1736	1.4 0.8 1.4	**26** TH	0013 0738 1316 1724	0.5 1.4 1.0 1.2
12 TH	0024 0709 1301 1811	0.3 1.5 0.8 1.3	**27** FR	0030 0800 1405 1748	0.4 1.5 1.0 1.1
13 FR	0053 0753 1404 1849	0.2 1.7 0.9 1.2	**28** SA	0048 0820 1442 1814	0.4 1.6 1.0 1.1
14 SA	0126 0838 1509 1929	0.1 1.8 0.9 1.1	**29** SU	0111 0842 1513 1846	0.3 1.6 1.0 1.1
15 SU	0202 0924 1616 2011	0.1 1.8 0.9 1.0	**30** MO	0140 0909 1545 1924	0.3 1.7 1.0 1.1
			31 TU	0215 0943 1622 2006	0.2 1.7 1.0 1.1

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

55659

PAPUA NEW GUINEA - WASU

LAT 5° 57′ S LONG 147° 11′ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

JANUARY

	Time	m		Time	m
1 MO	1454	1.1	**16** TU	0454 1325 2118 2210	0.4 1.0 0.6 0.6
2 TU	0331 1453	0.4 1.1	**17** WE	0559 1324 2049	0.5 1.0 0.5
3 WE	0303 1446 2301	0.5 1.0 0.5	**18** TH	0314 0708 1326 2105	0.7 0.6 1.0 0.3
4 TH	1431 2234	1.0 0.4	**19** FR	0452 0819 1332 2131	0.8 0.8 1.0 0.2
5 FR	1359 2223	1.0 0.4	**20** SA	0606 0925 1345 2203	0.9 0.8 1.0 0.1
6 SA	1335 2222	1.0 0.3	**21** SU	0706 1027 1402 2236	1.0 0.9 1.0 0.1
7 SU	1338 2233	1.1 0.2	**22** MO	0802 1123 1416 2311	1.0 0.9 1.0 0.1
8 MO	1353 2254	1.1 0.1	**23** TU	0905 1205 1402 2343	1.0 1.0 1.0 0.1
9 TU	1413 2324	1.2 0.1	**24** WE	1315	1.0
10 WE	1435	1.2	**25** TH	0012 1348	0.1 1.0
11 TH	0003 1455	0.1 1.2	**26** FR	0037 1418	0.1 1.1
12 FR	0050 1512	0.1 1.2	**27** SA	0055 1442	0.2 1.1
13 SA	0145 1520	0.1 1.2	**28** SU	0106 1456	0.3 1.1
14 SU	0246 1456	0.2 1.1	**29** MO	0107 1456	0.3 1.0
15 MO	0351 1341	0.3 1.0	**30** TU	0058 1442	0.4 1.0
			31 WE	0021 1420 2159	0.5 0.9 0.5

FEBRUARY

	Time	m		Time	m
1 TH	1354 2128	0.9 0.5	**16** FR	0407 0821 1209 2032	0.9 0.8 0.9 0.2
2 FR	1306 2118	0.9 0.4	**17** SA	0445 0924 1251 2104	1.0 0.8 0.9 0.1
3 SA	0618 0758 1229 2119	0.9 0.9 1.0 0.3	**18** SU	0523 1012 1336 2138	1.0 0.8 0.9 0.1
4 SU	0540 0832 1244 2132	0.9 0.9 1.0 0.2	**19** MO	0603 1049 1414 2212	1.0 0.8 0.9 0.1
5 MO	0549 0843 1311 2155	1.0 1.0 1.1 0.2	**20** TU	0649 1114 1442 2242	1.0 0.9 0.9 0.1
6 TU	0626 0839 1342 2227	1.0 1.0 1.1 0.1	**21** WE	0744 1115 1455 2308	1.0 0.9 0.9 0.1
7 WE	0741 0818 1413 2304	1.0 1.0 1.2 0.1	**22** TH	0907 1033 1444 2327	0.9 0.9 1.0 0.2
8 TH	1442 2346	1.2 0.1	**23** FR	1419 2337	1.0 0.2
9 FR	1509	1.2	**24** SA	1426 2337	1.0 0.3
10 SA	0030 1529	0.1 1.1	**25** SU	1440 2329	1.0 0.4
11 SU	0115 1540	0.2 1.0	**26** MO	1450 2317	0.9 0.4
12 MO	0200 1516	0.3 0.9	**27** TU	0645 0818 1445 2233	0.7 0.7 0.9 0.5
13 TU	0253 1136	0.5 0.9	**28** WE	0600 0957 1411 2044	0.8 0.7 0.8 0.5
14 WE	0444 1134 1947	0.6 0.9 0.5	**29** TH	0528 1151 1248 2014	0.8 0.8 0.8 0.5
15 TH	0323 0657 1143 2004	0.8 0.7 0.9 0.3			

MARCH

	Time	m		Time	m
1 FR	0451 2003	0.9 0.4	**16** SA	0337 0938 1042 1955	1.1 0.8 0.8 0.2
2 SA	0426 2005	1.0 0.3	**17** SU	0404 0950 1231 2031	1.1 0.8 0.8 0.1
3 SU	0414 0921 1051 2023	1.0 0.9 0.9 0.3	**18** MO	0433 1010 1334 2105	1.1 0.8 0.8 0.1
4 MO	0424 0907 1155 2050	1.0 0.9 1.0 0.2	**19** TU	0505 1031 1411 2135	1.1 0.8 0.9 0.1
5 TU	0450 0901 1245 2124	1.0 1.0 1.0 0.1	**20** WE	0540 1048 1436 2200	1.0 0.8 0.9 0.2
6 WE	0525 0900 1331 2202	1.0 0.9 1.1 0.1	**21** TH	0619 1051 1447 2217	0.9 0.8 0.9 0.2
7 TH	0606 0913 1413 2240	1.0 0.9 1.1 0.1	**22** FR	0706 1033 1434 2224	0.9 0.8 0.9 0.3
8 FR	0649 0939 1452 2318	0.9 0.9 1.1 0.2	**23** SA	0824 0944 1359 2216	0.8 0.8 0.9 0.4
9 SA	0726 1019 1531 2352	0.9 0.8 1.0 0.3	**24** SU	0545 0801 1405 2158	0.8 0.7 0.8 0.4
10 SU	0749 1110 1609	0.8 0.8 0.9	**25** MO	0449 0919 1424 2136	0.8 0.7 0.8 0.5
11 MO	0019 0756 1212 1647	0.4 0.8 0.7 0.8	**26** TU	0422 1032 1443 2027	0.8 0.7 0.7 0.6
12 TU	0025 0756 1337	0.6 0.8 0.6	**27** WE	0409 1153 1448 1904	0.9 0.6 0.6 0.6
13 WE	0758 1801	0.8 0.5	**28** TH	0357 1829	1.0 0.5
14 TH	0302 1839	0.9 0.4	**29** FR	0342 1814	1.0 0.4
15 FR	0315 1917	1.0 0.2	**30** SA	0332 1828	1.1 0.4
			31 SU	0325 1859	1.1 0.3

APRIL

	Time	m		Time	m
1 MO	0330 1936	1.1 0.2	**16** TU	0350 0958 1257 2021	1.1 0.7 0.8 0.2
2 TU	0349 0934 1054 2016	1.1 0.9 0.9 0.2	**17** WE	0417 1021 1338 2046	1.1 0.7 0.8 0.2
3 WE	0414 0910 1216 2055	1.1 0.9 1.0 0.2	**18** TH	0441 1048 1408 2104	1.0 0.7 0.8 0.3
4 TH	0440 0915 1322 2133	1.0 0.9 1.0 0.2	**19** FR	0457 1117 1430 2110	0.9 0.7 0.7 0.4
5 FR	0503 0938 1422 2207	1.0 0.8 1.0 0.2	**20** SA	0452 1135 1439 2055	0.9 0.7 0.7 0.5
6 SA	0519 1012 1520 2236	0.9 0.7 0.9 0.3	**21** SU	0416 1125 1336 2023	0.9 0.7 0.7 0.5
7 SU	0526 1052 1621 2254	0.9 0.6 0.9 0.5	**22** MO	0336 1128 1436 1943	0.9 0.6 0.6 0.6
8 MO	0526 1137 1739 2243	0.9 0.5 0.8 0.6	**23** TU	0313 1146	0.9 0.5
9 TU	0520 1226	0.9 0.4	**24** WE	0304 1219	1.0 0.5
10 WE	0401 1329	0.9 0.4	**25** TH	0300 1306	1.1 0.4
11 TH	0229 1515	1.0 0.3	**26** FR	0258 1416	1.1 0.4
12 FR	0227 1727	1.1 0.2	**27** SA	0258 1543	1.1 0.3
13 SA	0241 1827	1.1 0.2	**28** SU	0259 1700	1.2 0.3
14 SU	0301 1912	1.2 0.2	**29** MO	0301 1804	1.2 0.2
15 MO	0325 0945 1150 1949	1.1 0.7 0.7 0.2	**30** TU	0309 1857	1.2 0.2

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56010

PAPUA NEW GUINEA - WASU

LAT 5° 57′ S LONG 147° 11′ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

MAY

	Time	m		Time	m
1 WE	0324 1.2 1943 0.2		**16** TH	0339 1.1 1053 0.7 1236 0.7 1941 0.3	
2 TH	0340 1.1 0936 0.9 1154 0.9 2023 0.2		**17** FR	0352 1.0 1133 0.6 1357 0.6 1947 0.4	
3 FR	0354 1.1 0937 0.8 1334 0.9 2058 0.3		**18** SA	0352 1.0 1205 0.6 1521 0.6 1922 0.5	
4 SA	0402 1.0 0958 0.6 1502 0.8 2126 0.4		**19** SU	0329 1.0 1218 0.5 1656 0.6 1831 0.6	
5 SU	0404 1.0 1027 0.5 1622 0.8 2141 0.6		**20** MO	0251 1.0 1204 0.5	
6 MO	0402 1.0 1103 0.4 1814 0.7 2108 0.7		**21** TU	0228 1.0 1152 0.4	
7 TU	0355 1.0 1142 0.3		**22** WE	0221 1.1 1200 0.3	
8 WE	0311 1.0 1226 0.2		**23** TH	0223 1.1 1221 0.3	
9 TH	0155 1.1 1321 0.2		**24** FR	0232 1.2 1255 0.2	
10 FR	0145 1.1 1439 0.2		**25** SA	0243 1.2 1344 0.2	
11 SA	0155 1.2 1614 0.2		**26** SU	0255 1.2 1451 0.2	
12 SU	0213 1.2 1725 0.2		**27** MO	0301 1.2 1610 0.2	
13 MO	0234 1.2 1815 0.2		**28** TU	0255 1.2 1722 0.2	
14 TU	0257 1.1 1852 0.2		**29** WE	0250 1.2 1821 0.2	
15 WE	0319 1.1 1023 0.7 1126 0.7 1921 0.3		**30** TH	0252 1.2 1909 0.3	
			31 FR	0258 1.1 0944 0.7 1219 0.7 1948 0.4	

JUNE

	Time	m		Time	m
1 SA	0302 1.1 0944 0.6 1449 0.7 2021 0.5		**16** SU	0255 1.0 1121 0.4	
2 SU	0300 1.1 1002 0.4 1634 0.7 2041 0.7		**17** MO	0221 1.0 1118 0.4	
3 MO	0258 1.1 1030 0.3		**18** TU	0154 1.0 1114 0.3	
4 TU	0255 1.0 1103 0.2		**19** WE	0150 1.1 1119 0.2	
5 WE	0239 1.1 1142 0.1		**20** TH	0159 1.1 1136 0.2	
6 TH	0129 1.1 1226 0.1		**21** FR	0217 1.2 1202 0.1	
7 FR	0108 1.1 1316 0.1		**22** SA	0237 1.2 1239 0.1	
8 SA	0120 1.1 1415 0.1		**23** SU	0258 1.2 1327 0.1	
9 SU	0140 1.2 1515 0.1		**24** MO	0314 1.2 1427 0.2	
10 MO	0203 1.1 1608 0.2		**25** TU	0316 1.2 1537 0.2	
11 TU	0224 1.1 1652 0.2		**26** WE	0243 1.2 1645 0.3	
12 WE	0243 1.1 1726 0.3		**27** TH	0213 1.1 1745 0.3	
13 TH	0258 1.1 1748 0.4		**28** FR	0206 1.1 0949 0.7 1038 0.7 1837 0.5	
14 FR	0307 1.1 1748 0.5		**29** SA	0205 1.1 0916 0.5 1455 0.7 1925 0.6	
15 SA	0308 1.0 1121 0.5		**30** SU	0203 1.1 0928 0.4 1647 0.8 2011 0.7	

JULY

	Time	m		Time	m
1 MO	0202 1.0 0952 0.2 1901 0.9 2056 0.9		**16** TU	0118 1.0 1016 0.3	
2 TU	0206 1.0 1023 0.1 2049 1.0 2134 1.0		**17** WE	0118 1.0 1025 0.2	
3 WE	0212 1.0 1059 0.1		**18** TH	0135 1.1 1042 0.2	
4 TH	0158 1.0 1138 0.0		**19** FR	0159 1.1 1108 0.1	
5 FR	0049 1.1 1219 0.0		**20** SA	0224 1.2 1142 0.1	
6 SA	0104 1.1 1259 0.1		**21** SU	0249 1.2 1222 0.1	
7 SU	0137 1.1 1337 0.1		**22** MO	0311 1.2 1308 0.1	
8 MO	0207 1.1 1410 0.2		**23** TU	0326 1.2 1400 0.2	
9 TU	0227 1.1 1437 0.2		**24** WE	0325 1.1 1459 0.3	
10 WE	0236 1.1 1451 0.3		**25** TH	0154 1.0 1606 0.4	
11 TH	0239 1.0 1434 0.4		**26** FR	0103 1.0 1725 0.5	
12 FR	0239 1.0 1248 0.5		**27** SA	0054 1.0 0826 0.5 1514 0.7 1853 0.7	
13 SA	0234 1.0 1026 0.5		**28** SU	0051 1.0 0837 0.4 1632 0.8 2011 0.8	
14 SU	0222 1.0 1017 0.4		**29** MO	0057 1.0 0902 0.2 1731 0.9 2117 0.9	
15 MO	0153 1.0 1015 0.3		**30** TU	0116 1.0 0934 0.1 1824 1.0 2213 0.9	
			31 WE	0144 1.0 1010 0.1 1916 1.0 2259 0.9	

AUGUST

	Time	m		Time	m
1 TH	0214 1.0 1047 0.0 2011 1.0 2325 1.0		**16** FR	0124 1.1 1008 0.1 1846 1.0 2031 1.0	
2 FR	0239 1.0 1123 0.0 2123 1.0 2306 1.0		**17** SA	0157 1.1 1042 0.1	
3 SA	0246 1.0 1155 0.1		**18** SU	0228 1.2 1118 0.1	
4 SU	0221 1.0 1221 0.1		**19** MO	0257 1.2 1157 0.2	
5 MO	0225 1.0 1239 0.2		**20** TU	0323 1.1 1235 0.2	
6 TU	0239 1.0 1247 0.3		**21** WE	0343 1.0 1311 0.4 2238 0.8	
7 WE	0249 1.0 1239 0.4		**22** TH	0011 0.8 0349 0.9 1341 0.5 2226 0.8	
8 TH	0246 1.0 1217 0.4		**23** FR	1219 0.7 2221 0.8	
9 FR	0230 0.9 1109 0.5		**24** SA	0710 0.5 1517 0.8 1854 0.8 2233 0.8	
10 SA	0209 0.9 0923 0.5		**25** SU	0728 0.4 1546 0.9 2019 0.8 2306 0.8	
11 SU	0144 0.9 0909 0.4 1753 0.9 2036 0.8		**26** MO	0758 0.2 1618 1.0 2116 0.8 2359 0.9	
12 MO	0055 0.9 0905 0.4 1737 0.9 2101 0.9 2357 0.9		**27** TU	0834 0.1 1652 1.1 2157 0.8	
13 TU	0909 0.3 1730 1.0 2108 0.9		**28** WE	0103 0.9 0911 0.1 1728 1.1 2228 0.8	
14 WE	0019 1.0 0920 0.2 1735 1.0 2105 0.9		**29** TH	0156 0.9 0947 0.1 1808 1.0 2251 0.8	
15 TH	0051 1.0 0941 0.2 1800 1.0 2049 1.0		**30** FR	0234 0.9 1021 0.1 1853 1.0 2300 0.8	
			31 SA	0300 0.9 1049 0.1 1951 0.9 2249 0.9	

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56010

PAPUA NEW GUINEA - WASU

LAT 5° 57′ S LONG 147° 11′ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

SEPTEMBER

	Time	m		Time	m
1 SU	0310 0.9 1111 0.2		**16** MO	0233 1.1 1047 0.2 1831 0.9 2210 0.8	
2 MO	0249 0.9 1121 0.3		**17** TU	0317 1.0 1118 0.3 1845 0.9 2259 0.7	
3 TU	0225 0.9 1118 0.3		**18** WE	0406 0.9 1142 0.4 1847 0.8 2356 0.7	
4 WE	0230 0.9 1100 0.4 1825 0.7 1948 0.7		**19** TH	0510 0.8 1145 0.6 1847 0.8	
5 TH	0239 0.8 1033 0.5 1720 0.7 2123 0.7		**20** FR	0104 0.6 1827 0.8	
6 FR	0235 0.8 0913 0.5 1654 0.8 2241 0.7		**21** SA	0250 0.5 1451 0.9	
7 SA	0202 0.7 0807 0.5 1636 0.9		**22** SU	0533 0.4 1457 1.0	
8 SU	0752 0.5 1621 1.0		**23** MO	0633 0.2 1516 1.1	
9 MO	0747 0.4 1612 1.0		**24** TU	0720 0.2 1540 1.1 2144 0.8 2328 0.8	
10 TU	0751 0.3 1607 1.0		**25** WE	0802 0.1 1607 1.1 2153 0.8	
11 WE	0807 0.3 1613 1.1 2134 0.9 2310 0.9		**26** TH	0100 0.8 0840 0.1 1636 1.1 2212 0.7	
12 TH	0832 0.2 1631 1.0 2106 0.9		**27** FR	0152 0.9 0913 0.1 1706 1.0 2231 0.7	
13 FR	0015 1.0 0903 0.2 1659 1.0 2056 0.9		**28** SA	0227 0.9 0940 0.2 1736 0.9 2246 0.8	
14 SA	0105 1.0 0937 0.2 1732 1.0 2104 0.9		**29** SU	0251 0.9 1000 0.2 1801 0.9 2251 0.8	
15 SU	0149 1.1 1012 0.2 1804 0.9 2130 0.9		**30** MO	0303 0.8 1008 0.3 1800 0.8 2247 0.7	

OCTOBER

	Time	m		Time	m
1 TU	0236 0.8 0957 0.4 1705 0.8 2241 0.7		**16** WE	0415 0.8 1024 0.5 1652 0.9 2322 0.5	
2 WE	0156 0.7 0923 0.5 1614 0.8 2244 0.7		**17** TH	0543 0.8 1015 0.7 1647 0.9	
3 TH	0209 0.7 0839 0.5 1542 0.9 2316 0.6		**18** FR	0008 0.4 1556 0.9	
4 FR	0230 0.6 0703 0.6 1531 0.9		**19** SA	0102 0.3 1420 1.0	
5 SA	0015 0.6 0243 0.6 0615 0.5 1526 1.0		**20** SU	0215 0.2 1413 1.1	
6 SU	0555 0.5 1522 1.1		**21** MO	0407 0.2 1425 1.2	
7 MO	0544 0.4 1521 1.1		**22** TU	0539 0.2 1443 1.2	
8 TU	0601 0.4 1521 1.1		**23** WE	0637 0.1 1505 1.2 2140 0.7 2251 0.7	
9 WE	0633 0.3 1524 1.1		**24** TH	0721 0.1 1529 1.1 2141 0.7	
10 TH	0711 0.3 1536 1.1		**25** FR	0022 0.7 0757 0.2 1553 1.1 2204 0.7	
11 FR	0749 0.2 1556 1.1 2123 0.9 2326 0.9		**26** SA	0120 0.8 0826 0.2 1614 1.0 2234 0.7	
12 SA	0828 0.2 1617 1.1 2113 0.9		**27** SU	0205 0.7 0847 0.3 1629 1.0 2312 0.6	
13 SU	0044 1.0 0904 0.2 1636 1.0 2130 0.8		**28** MO	0246 0.7 0855 0.4 1627 0.9 2355 0.6	
14 MO	0155 0.9 0937 0.3 1648 1.0 2202 0.7		**29** TU	0329 0.7 0834 0.5 1556 0.9	
15 TU	0304 0.9 1006 0.4 1652 0.9 2240 0.6		**30** WE	0034 0.6 0430 0.6 0736 0.6 1513 0.9	
			31 TH	0013 0.5 1442 1.0	

NOVEMBER

	Time	m		Time	m
1 FR	0010 0.5 1433 1.0		**16** SA	0007 0.1 1355 1.1	
2 SA	0028 0.4 1435 1.1		**17** SU	0057 0.1 1337 1.1	
3 SU	0100 0.4 1442 1.1		**18** MO	0202 0.1 1344 1.2	
4 MO	0150 0.3 1451 1.2		**19** TU	0325 0.1 1359 1.2	
5 TU	0300 0.3 1500 1.2		**20** WE	0443 0.1 1418 1.2	
6 WE	0417 0.3 1504 1.2		**21** TH	0541 0.2 1439 1.1	
7 TH	0525 0.3 1506 1.2		**22** FR	0625 0.2 1500 1.1 2204 0.7 2301 0.7	
8 FR	0622 0.2 1512 1.2		**23** SA	0658 0.3 1518 1.1 2227 0.6	
9 SA	0710 0.2 1523 1.1		**24** SU	0033 0.6 0722 0.4 1531 1.0 2303 0.6	
10 SU	0752 0.3 1533 1.1 2140 0.8		**25** MO	0218 0.6 0731 0.5 1534 1.0 2336 0.5	
11 MO	0054 0.8 0827 0.4 1539 1.1 2150 0.6		**26** TU	0359 0.6 0646 0.6 1516 1.0 2359 0.4	
12 TU	0248 0.8 0857 0.5 1538 1.0 2215 0.5		**27** WE	1435 1.0	
13 WE	0419 0.8 0915 0.6 1537 1.0 2247 0.3		**28** TH	0007 0.4 1403 1.0	
14 TH	0618 0.8 0851 0.8 1533 1.0 2324 0.2		**29** FR	0001 0.3 1353 1.1	
15 FR	1509 1.0		**30** SA	0002 0.3 1400 1.1	

DECEMBER

	Time	m		Time	m
1 SU	0016 0.2 1417 1.2		**16** MO	0053 0.0 1318 1.1	
2 MO	0042 0.2 1438 1.2		**17** TU	0148 0.1 1335 1.1	
3 TU	0121 0.2 1459 1.2		**18** WE	0245 0.1 1353 1.1	
4 WE	0214 0.2 1514 1.2		**19** TH	0338 0.2 1410 1.1	
5 TH	0322 0.2 1511 1.2		**20** FR	0422 0.2 1425 1.1	
6 FR	0434 0.2 1451 1.2		**21** SA	0458 0.3 1439 1.1	
7 SA	0538 0.3 1441 1.2		**22** SU	0522 0.4 1449 1.0 2248 0.5	
8 SU	0631 0.3 1441 1.1 2204 0.7 2316 0.7		**23** MO	0230 0.5 0508 0.5 1452 1.0 2249 0.4	
9 MO	0716 0.4 1441 1.1 2135 0.6		**24** TU	1444 1.0 2300 0.4	
10 TU	0244 0.7 0753 0.6 1438 1.1 2146 0.4		**25** WE	1413 1.0 2308 0.3	
11 WE	0431 0.8 0820 0.7 1435 1.1 2210 0.3		**26** TH	1337 1.0 2311 0.3	
12 TH	1436 1.1 2242 0.1		**27** FR	1328 1.1 2317 0.2	
13 FR	1433 1.1 2321 0.1		**28** SA	1339 1.1 2329 0.2	
14 SA	1355 1.1		**29** SU	1402 1.2 2350 0.1	
15 SU	0004 0.0 1313 1.1		**30** MO	1429 1.2	
			31 TU	0020 0.1 1455 1.2	

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56010

PAPUA NEW GUINEA - KAVIENG

LAT 2° 35´ S LONG 150° 48´ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

JANUARY

	Time	m		Time	m
1 MO	0100	0.3	**16** TU	0100	0.3
	1628	0.9		1700	0.9
2 TU	0110	0.3	**17** WE	0059	0.4
	1637	0.9		1606	0.8
3 WE	0109	0.4	**18** TH	0028	0.4
	1622	0.8		1316	0.7
				2318	0.4
4 TH	0044	0.4	**19** FR	1243	0.8
	1500	0.7		2207	0.3
5 FR	0009	0.4	**20** SA	1240	0.9
	1233	0.8		2154	0.2
	2318	0.4			
6 SA	1224	0.8	**21** SU	1254	0.9
	2233	0.3		2204	0.1
7 SU	1239	0.9	**22** MO	1318	1.0
	2209	0.2		2221	0.1
8 MO	1303	1.0	**23** TU	1345	1.0
	2207	0.2		2238	0.1
9 TU	1334	1.1	**24** WE	1412	1.1
	2220	0.1		2253	0.1
10 WE	1410	1.1	**25** TH	1439	1.1
	2243	0.1		2306	0.1
11 TH	1448	1.2	**26** FR	0551	0.4
	2312	0.1		0621	0.4
				1504	1.1
				2318	0.2
12 FR	1526	1.2	**27** SA	0513	0.5
	2344	0.1		0740	0.4
				1526	1.1
				2329	0.2
13 SA	1602	1.2	**28** SU	0513	0.5
				0827	0.4
				1546	1.0
				2335	0.2
14 SU	0016	0.1	**29** MO	0522	0.5
	1632	1.1		0907	0.4
				1604	1.0
				2338	0.3
15 MO	0043	0.2	**30** TU	0536	0.6
	1654	1.0		0943	0.5
				1618	0.9
				2335	0.3
			31 WE	0553	0.6
				1018	0.5
				1624	0.8
				2321	0.3

FEBRUARY

	Time	m		Time	m
1 TH	0616	0.7	**16** FR	0558	0.8
	1054	0.6		2141	0.3
	1612	0.7			
	2304	0.3			
2 FR	0647	0.7	**17** SA	0620	0.8
	1140	0.6		2126	0.2
	1523	0.7			
	2245	0.3			
3 SA	0745	0.7	**18** SU	0652	0.8
	2220	0.3		0940	0.8
				1212	0.8
				2129	0.1
4 SU	1119	0.8	**19** MO	1258	0.9
	2155	0.2		2141	0.1
5 MO	1219	0.9	**20** TU	1329	0.9
	2143	0.2		2154	0.1
6 TU	1300	1.0	**21** WE	1356	1.0
	2147	0.1		2203	0.1
7 WE	1337	1.1	**22** TH	1420	1.0
	2200	0.1		2209	0.1
8 TH	1414	1.2	**23** FR	0427	0.6
	2220	0.1		0713	0.5
				1441	1.0
				2216	0.2
9 FR	0518	0.5	**24** SA	0409	0.6
	0704	0.5		0756	0.5
	1450	1.2		1459	1.0
	2243	0.1		2221	0.2
10 SA	0503	0.5	**25** SU	0409	0.6
	0752	0.5		0832	0.4
	1525	1.2		1514	1.0
	2306	0.1		2224	0.3
11 SU	0509	0.5	**26** MO	0414	0.7
	0833	0.5		0906	0.4
	1556	1.2		1529	1.0
	2325	0.2		2224	0.3
12 MO	0522	0.6	**27** TU	0422	0.7
	0914	0.5		0940	0.4
	1622	1.1		1544	0.9
	2334	0.3		2220	0.3
13 TU	0533	0.6	**28** WE	0434	0.8
	0956	0.5		1013	0.4
	1637	0.9		1555	0.8
	2329	0.4		2212	0.3
14 WE	0539	0.7	**29** TH	0449	0.8
	1044	0.6		1046	0.5
	1631	0.8		1600	0.7
	2302	0.4		2201	0.3
15 TH	0544	0.8			
	1200	0.6			
	1512	0.6			
	2223	0.3			

MARCH

	Time	m		Time	m
1 FR	0505	0.9	**16** SA	0459	1.0
	1122	0.5		2034	0.2
	1549	0.6			
	2150	0.3			
2 SA	0521	0.9	**17** SU	0509	1.0
	1212	0.6		2036	0.1
	1503	0.6			
	2137	0.3			
3 SU	0540	0.9	**18** MO	0519	0.9
	2116	0.2		2046	0.1
4 MO	0609	0.8	**19** TU	0527	0.8
	2100	0.2		0930	0.8
				1252	0.8
				2058	0.1
5 TU	1149	0.9	**20** WE	0520	0.8
	2059	0.2		0827	0.7
				1322	0.9
				2107	0.2
6 WE	1245	1.0	**21** TH	0443	0.7
	2107	0.1		0746	0.7
				1344	0.9
				2109	0.2
7 TH	0450	0.7	**22** FR	0344	0.7
	0639	0.6		0744	0.6
	1326	1.1		1404	0.9
	2121	0.1		2111	0.2
8 FR	0419	0.6	**23** SA	0320	0.7
	0718	0.6		0800	0.5
	1402	1.1		1422	0.9
	2139	0.1		2114	0.3
9 SA	0403	0.6	**24** SU	0316	0.8
	0757	0.5		0823	0.5
	1438	1.1		1437	0.9
	2156	0.2		2113	0.3
10 SU	0404	0.7	**25** MO	0318	0.8
	0839	0.5		0851	0.4
	1512	1.1		1451	0.9
	2211	0.2		2110	0.3
11 MO	0413	0.7	**26** TU	0324	0.9
	0924	0.4		0922	0.4
	1543	1.0		1506	0.8
	2218	0.3		2106	0.3
12 TU	0423	0.8	**27** WE	0335	0.9
	1012	0.4		0955	0.4
	1607	0.9		1522	0.7
	2212	0.4		2102	0.3
13 WE	0430	0.9	**28** TH	0349	1.0
	1104	0.4		1030	0.4
	1617	0.7		1537	0.7
	2150	0.4		2055	0.3
14 TH	0436	0.9	**29** FR	0405	1.0
	1204	0.5		1107	0.4
	1558	0.6		1544	0.6
	2120	0.4		2048	0.3
15 FR	0447	1.0	**30** SA	0422	1.0
	2047	0.3		1153	0.4
				1531	0.5
				2041	0.3
			31 SU	0439	1.0
				2025	0.3

APRIL

	Time	m		Time	m
1 MO	0459	1.0	**16** TU	0437	0.9
	2006	0.3		1955	0.2
2 TU	0518	0.9	**17** WE	0435	0.9
	2000	0.2		1025	0.7
				1151	0.7
				2004	0.2
3 WE	0519	0.8	**18** TH	0407	0.8
	0703	0.8		0900	0.7
	1046	0.8		1243	0.7
	2006	0.2		2005	0.3
4 TH	0414	0.8	**19** FR	0318	0.8
	0638	0.7		0811	0.6
	1212	0.9		1311	0.8
	2017	0.2		2004	0.3
5 FR	0339	0.7	**20** SA	0239	0.8
	0707	0.7		0805	0.6
	1301	1.0		1334	0.8
	2032	0.2		2004	0.3
6 SA	0318	0.7	**21** SU	0227	0.8
	0743	0.6		0819	0.5
	1344	1.0		1355	0.7
	2046	0.2		2000	0.4
7 SU	0311	0.8	**22** MO	0227	0.9
	0824	0.5		0842	0.4
	1423	1.0		1414	0.7
	2058	0.3		1954	0.4
8 MO	0316	0.9	**23** TU	0232	1.0
	0910	0.4		0909	0.4
	1500	0.9		1433	0.7
	2102	0.4		1950	0.4
9 TU	0325	0.9	**24** WE	0241	1.0
	0958	0.4		0940	0.3
	1535	0.8		1454	0.6
	2056	0.4		1947	0.4
10 WE	0334	1.0	**25** TH	0256	1.1
	1049	0.3		1015	0.3
	1604	0.6		1518	0.5
	2037	0.4		1943	0.4
11 TH	0343	1.1	**26** FR	0316	1.1
	1144	0.3		1055	0.3
	1615	0.5		1542	0.5
	2009	0.4		1941	0.4
12 FR	0355	1.1	**27** SA	0338	1.1
	1258	0.3		1142	0.3
	1534	0.4		1601	0.4
	1936	0.3		1938	0.3
13 SA	0408	1.1	**28** SU	0401	1.1
	1924	0.2		1248	0.3
				1554	0.4
				1923	0.3
14 SU	0419	1.1	**29** MO	0427	1.0
	1929	0.2		1854	0.3
15 MO	0429	1.0	**30** TU	0454	1.0
	1941	0.2		1845	0.3

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56240

PAPUA NEW GUINEA - KAVIENG

LAT 2° 35´ S LONG 150° 48´ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

MAY

	Time	m		Time	m
1 WE	0521 0.9 1854 0.2		**16** TH	0415 0.8 1846 0.3	
2 TH	0453 0.8 0641 0.8 0857 0.8 1908 0.2		**17** FR	0322 0.8 1844 0.3	
3 FR	0316 0.8 0649 0.7 1124 0.8 1922 0.3		**18** SA	0213 0.8 0940 0.6 1208 0.6 1843 0.4	
4 SA	0241 0.8 0727 0.6 1235 0.8 1935 0.3		**19** SU	0141 0.8 0844 0.5 1304 0.6 1837 0.4	
5 SU	0226 0.8 0808 0.5 1330 0.8 1942 0.4		**20** MO	0137 0.9 0850 0.4 1346 0.5 1825 0.4	
6 MO	0223 0.9 0853 0.4 1419 0.7 1941 0.4		**21** TU	0141 1.0 0913 0.4 1424 0.5 1819 0.4	
7 TU	0230 1.0 0939 0.3 1507 0.6 1933 0.4		**22** WE	0151 1.0 0940 0.3 1500 0.5 1815 0.4	
8 WE	0241 1.1 1028 0.2 1554 0.5 1912 0.4		**23** TH	0208 1.1 1010 0.2 1536 0.4 1813 0.4	
9 TH	0253 1.1 1119 0.2 1645 0.4 1838 0.4		**24** FR	0232 1.1 1045 0.2 1615 0.4 1816 0.4	
10 FR	0308 1.2 1216 0.2		**25** SA	0301 1.1 1126 0.2 1706 0.4 1814 0.4	
11 SA	0325 1.2 1346 0.2		**26** SU	0333 1.1 1215 0.2	
12 SU	0342 1.1 1741 0.2		**27** MO	0406 1.1 1315 0.2	
13 MO	0359 1.1 1817 0.2		**28** TU	0440 1.0 1459 0.3	
14 TU	0413 1.0 1838 0.2		**29** WE	0514 1.0 1648 0.3	
15 WE	0423 0.9 1848 0.3		**30** TH	0543 0.9 1735 0.3	
			31 FR	0428 0.8 1800 0.3	

JUNE

	Time	m		Time	m
1 SA	0219 0.8 0805 0.6 1005 0.7 1811 0.4		**16** SU	0110 0.8 1316 0.4	
2 SU	0148 0.8 0819 0.5 1228 0.6 1809 0.4		**17** MO	0047 0.8 1103 0.4	
3 MO	0136 0.9 0854 0.4 1359 0.5 1758 0.5		**18** TU	0051 0.9 1016 0.3	
4 TU	0138 1.0 0933 0.3 1523 0.5 1726 0.5		**19** WE	0105 1.0 1001 0.2	
5 WE	0149 1.1 1014 0.2		**20** TH	0125 1.0 1013 0.2	
6 TH	0205 1.1 1057 0.1		**21** FR	0153 1.1 1034 0.1	
7 FR	0224 1.2 1140 0.1		**22** SA	0226 1.1 1102 0.1	
8 SA	0247 1.1 1224 0.1		**23** SU	0303 1.1 1136 0.1	
9 SU	0311 1.1 1307 0.2		**24** MO	0340 1.1 1214 0.1	
10 MO	0336 1.1 1348 0.2		**25** TU	0415 1.1 1253 0.2	
11 TU	0359 1.0 1427 0.3		**26** WE	0446 1.0 1331 0.2	
12 WE	0419 0.9 1459 0.3		**27** TH	0510 1.0 1403 0.3	
13 TH	0432 0.9 1523 0.4		**28** FR	0515 0.8 1424 0.4	
14 FR	0425 0.8 1528 0.4		**29** SA	0312 0.7 1418 0.4	
15 SA	0307 0.7 1447 0.4		**30** SU	0121 0.8 1231 0.4	

JULY

	Time	m		Time	m
1 MO	0057 0.8 0938 0.3		**16** TU	1030 0.3	
2 TU	0052 0.9 0946 0.2		**17** WE	0018 0.9 1009 0.2	
3 WE	0105 1.0 1009 0.1		**18** TH	0047 0.9 1002 0.1	
4 TH	0124 1.1 1036 0.1		**19** FR	0118 1.0 1009 0.1	
5 FR	0149 1.1 1103 0.1		**20** SA	0152 1.1 1025 0.1	
6 SA	0216 1.1 1128 0.1		**21** SU	0228 1.1 1048 0.1	
7 SU	0243 1.1 1149 0.1		**22** MO	0303 1.2 1114 0.1 1740 0.4 1906 0.4	
8 MO	0310 1.1 1206 0.2		**23** TU	0337 1.2 1140 0.1 1747 0.4 1946 0.4	
9 TU	0335 1.0 1217 0.2 1820 0.4 1935 0.4		**24** WE	0407 1.1 1202 0.2 1803 0.5 2017 0.4	
10 WE	0357 1.0 1223 0.3 1828 0.5 2028 0.5		**25** TH	0430 1.0 1215 0.3 1822 0.5 2044 0.5	
11 TH	0414 0.9 1223 0.3 1858 0.5 2105 0.5		**26** FR	0440 0.9 1212 0.3 1844 0.6 2102 0.6	
12 FR	0424 0.8 1213 0.3 1958 0.6 2129 0.6		**27** SA	0409 0.7 1144 0.4 1938 0.7 2043 0.7	
13 SA	0414 0.8 1153 0.3		**28** SU	0116 0.7 1051 0.4	
14 SU	0315 0.7 1130 0.3 2348 0.7		**29** MO	0013 0.8 0947 0.3	
15 MO	1101 0.3 2353 0.8		**30** TU	0007 0.8 0932 0.2	
			31 WE	0028 0.9 0942 0.1	

AUGUST

	Time	m		Time	m
1 TH	0056 1.0 1001 0.0		**16** FR	0041 0.9 0925 0.1	
2 FR	0126 1.0 1019 0.0		**17** SA	0115 1.0 0935 0.1	
3 SA	0154 1.0 1033 0.1		**18** SU	0147 1.1 0950 0.1 1644 0.5 1855 0.5	
4 SU	0220 1.0 1044 0.1 1713 0.5 1833 0.5		**19** MO	0220 1.2 1009 0.1 1626 0.5 1937 0.5	
5 MO	0243 1.0 1052 0.2 1646 0.5 1940 0.4		**20** TU	0252 1.2 1028 0.1 1628 0.5 2016 0.4	
6 TU	0303 1.0 1058 0.2 1643 0.5 2025 0.4		**21** WE	0322 1.1 1044 0.2 1638 0.6 2056 0.4	
7 WE	0322 1.0 1059 0.2 1648 0.6 2105 0.4		**22** TH	0348 1.0 1051 0.3 1646 0.7 2138 0.5	
8 TH	0338 0.9 1056 0.3 1658 0.7 2142 0.5		**23** FR	0403 0.9 1043 0.4 1652 0.7 2226 0.5	
9 FR	0351 0.9 1048 0.3 1714 0.7 2216 0.5		**24** SA	0400 0.7 1016 0.4 1702 0.8 2342 0.6	
10 SA	0355 0.8 1036 0.3 1734 0.7 2251 0.6		**25** SU	0240 0.6 0940 0.3 1718 0.9	
11 SU	0342 0.7 1023 0.3 1756 0.8 2332 0.6		**26** MO	0901 0.2 1737 0.9	
12 MO	0255 0.6 1008 0.3 1822 0.8		**27** TU	0849 0.1 1757 0.9 2222 0.8 2320 0.8	
13 TU	0951 0.2 1921 0.8		**28** WE	0855 0.1 1825 0.8 2031 0.8	
14 WE	0933 0.2		**29** TH	0030 0.9 0911 0.1	
15 TH	0000 0.8 0924 0.2		**30** FR	0105 0.9 0926 0.1	
			31 SA	0133 1.0 0936 0.1 1735 0.6 1819 0.6	

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56240

PAPUA NEW GUINEA - KAVIENG

LAT 2° 35′ S LONG 150° 48′ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

SEPTEMBER

	Time	m		Time	m
1 SU	0156 1.0 0940 0.2 1601 0.6 1915 0.5		**16** MO	0131 1.1 0902 0.2 1532 0.7 1934 0.5	
2 MO	0215 1.0 0943 0.2 1542 0.6 1949 0.5		**17** TU	0204 1.1 0917 0.2 1529 0.7 2013 0.5	
3 TU	0231 1.0 0944 0.3 1540 0.7 2021 0.4		**18** WE	0236 1.1 0929 0.3 1535 0.8 2056 0.4	
4 WE	0244 0.9 0942 0.3 1543 0.7 2053 0.4		**19** TH	0307 1.0 0932 0.3 1543 0.8 2145 0.4	
5 TH	0258 0.9 0937 0.3 1550 0.8 2126 0.4		**20** FR	0331 0.8 0924 0.4 1551 0.9 2239 0.4	
6 FR	0312 0.8 0932 0.3 1603 0.9 2158 0.4		**21** SA	0343 0.7 0901 0.4 1601 1.0 2347 0.5	
7 SA	0321 0.8 0924 0.3 1617 0.9 2229 0.5		**22** SU	0320 0.5 0830 0.3 1614 1.0	
8 SU	0323 0.7 0914 0.3 1631 0.9 2301 0.5		**23** MO	0758 0.3 1628 1.0	
9 MO	0308 0.6 0907 0.3 1645 0.9 2342 0.6		**24** TU	0748 0.2 1638 1.0	
10 TU	0221 0.6 0857 0.3 1658 0.9		**25** WE	0755 0.1 1647 0.9	
11 WE	0844 0.2 1712 0.9		**26** TH	0811 0.1 1651 0.9 2115 0.8	
12 TH	0834 0.2 1724 0.8 2000 0.8 2332 0.8		**27** FR	0029 0.8 0826 0.1 1638 0.8 2028 0.7	
13 FR	0831 0.2 1706 0.7 1826 0.7		**28** SA	0102 0.8 0836 0.2 1605 0.7 1952 0.7	
14 SA	0022 0.9 0837 0.1 1625 0.7 1835 0.7		**29** SU	0124 0.9 0838 0.2 1516 0.7 1946 0.6	
15 SU	0058 1.0 0848 0.1 1552 0.7 1901 0.6		**30** MO	0142 0.9 0837 0.3 1452 0.7 1956 0.5	

OCTOBER

	Time	m		Time	m
1 TU	0158 0.9 0835 0.3 1446 0.8 2016 0.5		**16** WE	0150 0.9 0815 0.3 1440 0.9 2046 0.4	
2 WE	0211 0.8 0829 0.3 1448 0.9 2040 0.4		**17** TH	0228 0.8 0816 0.4 1448 1.0 2135 0.3	
3 TH	0223 0.8 0822 0.4 1453 0.9 2108 0.4		**18** FR	0306 0.7 0809 0.4 1459 1.1 2228 0.3	
4 FR	0236 0.7 0818 0.4 1503 1.0 2138 0.4		**19** SA	0339 0.6 0748 0.4 1511 1.1 2328 0.3	
5 SA	0250 0.7 0813 0.4 1517 1.0 2210 0.4		**20** SU	0359 0.4 0715 0.4 1526 1.2	
6 SU	0302 0.6 0805 0.3 1533 1.1 2244 0.4		**21** MO	0104 0.3 0308 0.3 0636 0.3 1541 1.2	
7 MO	0304 0.5 0802 0.3 1548 1.0 2325 0.4		**22** TU	0625 0.2 1553 1.1	
8 TU	0246 0.5 0758 0.3 1603 1.0		**23** WE	0641 0.2 1601 1.0	
9 WE	0747 0.3 1618 1.0		**24** TH	0702 0.2 1606 1.0	
10 TH	0736 0.3 1630 0.9		**25** FR	0720 0.2 1557 0.9 2153 0.7 2345 0.7	
11 FR	0731 0.2 1627 0.9 2038 0.8 2202 0.8		**26** SA	0731 0.2 1526 0.8 2053 0.7	
12 SA	0734 0.2 1548 0.8 1847 0.8 2343 0.9		**27** SU	0034 0.7 0732 0.3 1443 0.8 2024 0.6	
13 SU	0743 0.2 1514 0.8 1856 0.7		**28** MO	0100 0.7 0730 0.3 1410 0.8 2011 0.5	
14 MO	0031 0.9 0755 0.2 1448 0.8 1925 0.6		**29** TU	0122 0.7 0726 0.4 1359 0.9 2021 0.5	
15 TU	0111 1.0 0807 0.3 1439 0.8 2003 0.5		**30** WE	0142 0.7 0718 0.4 1359 0.9 2040 0.4	
			31 TH	0159 0.6 0707 0.4 1404 1.0 2104 0.4	

NOVEMBER

	Time	m		Time	m
1 FR	0215 0.6 0702 0.4 1413 1.1 2130 0.3		**16** SA	0345 0.5 0624 0.4 1428 1.2 2303 0.2	
2 SA	0232 0.5 0658 0.4 1428 1.1 2201 0.3		**17** SU	1447 1.2	
3 SU	0253 0.5 0652 0.4 1447 1.1 2237 0.3		**18** MO	0004 0.2 1507 1.2	
4 MO	0315 0.4 0653 0.4 1508 1.1 2320 0.3		**19** TU	0134 0.2 1527 1.2	
5 TU	0331 0.4 0653 0.3 1531 1.1		**20** WE	0411 0.2 1542 1.1	
6 WE	0022 0.3 0316 0.4 0641 0.3 1555 1.1		**21** TH	0523 0.2 1552 1.0	
7 TH	0621 0.3 1618 1.0		**22** FR	0555 0.3 1556 0.9	
8 FR	0613 0.3 1636 0.9		**23** SA	0610 0.3 1538 0.8	
9 SA	0619 0.3 1620 0.9		**24** SU	0611 0.3 1441 0.8	
10 SU	0631 0.3 1500 0.8 1900 0.7 2235 0.8		**25** MO	0608 0.4 1345 0.8 2158 0.5	
11 MO	0644 0.3 1418 0.8 1919 0.6		**26** TU	0030 0.5 0602 0.4 1318 0.9 2132 0.5	
12 TU	0001 0.8 0654 0.3 1357 0.9 1956 0.5		**27** WE	0122 0.5 0549 0.4 1315 0.9 2114 0.4	
13 WE	0101 0.7 0659 0.4 1353 0.9 2037 0.4		**28** TH	0206 0.5 0528 0.4 1320 1.0 2125 0.3	
14 TH	0155 0.7 0657 0.4 1359 1.0 2123 0.3		**29** FR	0247 0.5 0518 0.4 1331 1.1 2146 0.3	
15 FR	0248 0.6 0649 0.5 1411 1.1 2211 0.2		**30** SA	0328 0.4 0500 0.4 1348 1.1 2211 0.2	

DECEMBER

	Time	m		Time	m
1 SU	0411 0.4 0453 0.4 1412 1.1 2239 0.2		**16** MO	1443 1.2	
2 MO	1441 1.1 2313 0.2		**17** TU	0008 0.1 1510 1.2	
3 TU	1513 1.1 2354 0.2		**18** WE	0049 0.1 1535 1.1	
4 WE	1546 1.1		**19** TH	0126 0.2 1556 1.0	
5 TH	0043 0.2 1619 1.1		**20** FR	0151 0.3 1611 1.0	
6 FR	0146 0.3 1649 1.0		**21** SA	0206 0.3 1617 0.9	
7 SA	0319 0.3 1712 0.9		**22** SU	0204 0.4 1605 0.8	
8 SU	0428 0.3 1647 0.8		**23** MO	0131 0.4 1452 0.8	
9 MO	0459 0.4 1417 0.8		**24** TU	0027 0.4 1257 0.8 2328 0.4	
10 TU	0512 0.4 1329 0.8 2045 0.5 2350 0.6		**25** WE	1233 0.8 2251 0.3	
11 WE	0513 0.5 1313 0.9 2056 0.4		**26** TH	1241 0.9 2230 0.3	
12 TH	0157 0.5 0503 0.5 1315 1.0 2127 0.2		**27** FR	1258 1.0 2221 0.2	
13 FR	1330 1.1 2203 0.1		**28** SA	1320 1.0 2223 0.2	
14 SA	1351 1.2 2243 0.1		**29** SU	1348 1.1 2236 0.1	
15 SU	1416 1.2 2325 0.1		**30** MO	1420 1.1 2256 0.1	
			31 TU	1454 1.1 2320 0.1	

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56240

PAPUA NEW GUINEA - KIETA HARBOUR

LAT 6° 13´ S LONG 155° 38´ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000 YEAR 2024

JANUARY

	Time	m		Time	m
1 MO	0600	0.9	**16** TU	0005	0.2
	1038	0.6		0616	1.0
	1712	1.3		1124	0.6
				1752	1.3
2 TU	0018	0.4	**17** WE	0037	0.4
	0642	0.9		0703	1.0
	1116	0.7		1218	0.7
	1736	1.2		1822	1.1
3 WE	0046	0.4	**18** TH	0107	0.5
	0738	0.9		0803	1.1
	1204	0.8		1350	0.8
	1756	1.1		1835	0.9
4 TH	0117	0.5	**19** FR	0134	0.6
	0855	1.0		0924	1.1
	1330	0.8		2023	0.7
	1809	0.9		2109	0.7
5 FR	0158	0.5	**20** SA	0159	0.6
	1019	1.0		1055	1.2
				2011	0.5
6 SA	0306	0.6	**21** SU	0213	0.7
	1122	1.1		0338	0.7
	1936	0.6		1206	1.3
				2030	0.4
7 SU	0000	0.7	**22** MO	0232	0.8
	0433	0.6		0532	0.7
	1208	1.2		1256	1.4
	1948	0.5		2049	0.3
8 MO	0129	0.8	**23** TU	0249	0.8
	0542	0.6		0639	0.7
	1248	1.4		1336	1.4
	2012	0.3		2107	0.2
9 TU	0210	0.8	**24** WE	0306	0.9
	0635	0.6		0726	0.6
	1327	1.5		1412	1.5
	2041	0.2		2126	0.2
10 WE	0244	0.9	**25** TH	0326	0.9
	0720	0.5		0804	0.6
	1406	1.6		1445	1.6
	2113	0.1		2147	0.1
11 TH	0317	0.9	**26** FR	0348	0.9
	0801	0.5		0838	0.5
	1446	1.7		1515	1.6
	2147	0.0		2209	0.1
12 FR	0350	0.9	**27** SA	0411	1.0
	0841	0.5		0911	0.5
	1525	1.8		1544	1.6
	2222	0.0		2231	0.2
13 SA	0423	1.0	**28** SU	0435	1.0
	0920	0.4		0942	0.4
	1604	1.7		1611	1.5
	2258	0.1		2253	0.2
14 SU	0458	1.0	**29** MO	0458	1.1
	0959	0.5		1013	0.5
	1642	1.7		1634	1.5
	2332	0.1		2312	0.2
15 MO	0536	1.0	**30** TU	0522	1.1
	1040	0.5		1043	0.5
	1718	1.5		1655	1.4
				2329	0.3
			31 WE	0547	1.1
				1115	0.5
				1713	1.2
				2344	0.3

FEBRUARY

	Time	m		Time	m
1 TH	0613	1.1	**16** FR	0640	1.2
	1149	0.6		1308	0.7
	1727	1.1		1710	0.8
	2356	0.4		2329	0.5
2 FR	0645	1.1	**17** SA	0723	1.2
	1233	0.7		2200	0.5
	1735	1.0			
3 SA	0004	0.5	**18** SU	0902	1.1
	0733	1.1		2035	0.4
	1403	0.8			
	1712	0.8			
	2356	0.5			
4 SU	0910	1.1	**19** MO	1157	1.1
	2137	0.6		2037	0.3
5 MO	1119	1.2	**20** TU	0339	0.9
	2009	0.4		0605	0.8
				1301	1.2
				2045	0.3
6 TU	0300	0.8	**21** WE	0302	0.9
	0503	0.7		0709	0.7
	1233	1.3		1338	1.3
	2016	0.3		2053	0.2
7 WE	0237	0.8	**22** TH	0259	1.0
	0638	0.7		0744	0.6
	1323	1.5		1409	1.4
	2038	0.1		2106	0.2
8 TH	0250	0.9	**23** FR	0309	1.0
	0729	0.6		0815	0.5
	1405	1.6		1438	1.5
	2105	0.0		2122	0.2
9 FR	0311	1.0	**24** SA	0326	1.1
	0811	0.5		0843	0.4
	1443	1.7		1505	1.5
	2133	0.0		2139	0.1
10 SA	0337	1.1	**25** SU	0345	1.2
	0849	0.4		0911	0.4
	1521	1.8		1530	1.5
	2202	0.0		2157	0.1
11 SU	0405	1.1	**26** MO	0404	1.2
	0927	0.4		0938	0.3
	1556	1.7		1553	1.5
	2231	0.1		2214	0.2
12 MO	0434	1.2	**27** TU	0423	1.2
	1006	0.4		1006	0.3
	1630	1.6		1614	1.4
	2258	0.1		2229	0.2
13 TU	0504	1.2	**28** WE	0442	1.3
	1044	0.4		1033	0.4
	1702	1.5		1633	1.3
	2321	0.2		2241	0.3
14 WE	0535	1.3	**29** TH	0501	1.3
	1125	0.5		1101	0.4
	1729	1.2		1649	1.2
	2340	0.3		2251	0.3
15 TH	0607	1.3			
	1209	0.6			
	1745	1.0			
	2347	0.4			

MARCH

	Time	m		Time	m
1 FR	0521	1.3	**16** SA	0540	1.3
	1132	0.5		1243	0.6
	1703	1.0		1632	0.7
	2258	0.4		2210	0.5
2 SA	0544	1.3	**17** SU	0557	1.2
	1209	0.5		2050	0.5
	1711	0.9			
	2300	0.4			
3 SU	0613	1.2	**18** MO	0608	1.1
	1310	0.7		2009	0.4
	1656	0.8			
	2245	0.5			
4 MO	0704	1.1	**19** TU	0546	1.0
	2058	0.5		0728	1.0
				1147	1.0
				2008	0.4
5 TU	1035	1.1	**20** WE	0305	0.9
	1954	0.4		0705	0.8
				1252	1.1
				2011	0.3
6 WE	0317	0.8	**21** TH	0232	1.0
	0535	0.8		0722	0.7
	1222	1.3		1324	1.2
	1958	0.3		2017	0.3
7 TH	0228	0.9	**22** FR	0228	1.1
	0652	0.7		0745	0.6
	1313	1.4		1352	1.3
	2016	0.1		2028	0.2
8 FR	0231	1.0	**23** SA	0238	1.2
	0734	0.5		0809	0.5
	1354	1.6		1418	1.4
	2039	0.1		2043	0.2
9 SA	0248	1.2	**24** SU	0254	1.2
	0811	0.4		0835	0.4
	1431	1.7		1444	1.4
	2104	0.0		2059	0.2
10 SU	0310	1.3	**25** MO	0311	1.3
	0847	0.3		0901	0.3
	1506	1.7		1508	1.4
	2129	0.1		2115	0.2
11 MO	0336	1.3	**26** TU	0329	1.4
	0924	0.3		0927	0.3
	1541	1.6		1531	1.3
	2154	0.1		2130	0.2
12 TU	0403	1.4	**27** WE	0346	1.4
	1001	0.2		0953	0.2
	1613	1.5		1552	1.3
	2216	0.2		2143	0.3
13 WE	0429	1.5	**28** TH	0403	1.4
	1039	0.3		1020	0.2
	1643	1.3		1612	1.1
	2233	0.3		2154	0.3
14 TH	0456	1.5	**29** FR	0422	1.5
	1117	0.4		1049	0.3
	1708	1.1		1632	1.0
	2243	0.4		2204	0.3
15 FR	0520	1.4	**30** SA	0443	1.4
	1156	0.5		1122	0.4
	1718	0.9		1649	0.9
	2237	0.5		2211	0.4
			31 SU	0507	1.4
				1203	0.5
				1702	0.8
				2211	0.5

APRIL

	Time	m		Time	m
1 MO	0536	1.3	**16** TU	0528	1.1
	1314	0.6		1911	0.5
	1651	0.7			
	2146	0.5			
2 TU	0620	1.2	**17** WE	0455	1.0
	1922	0.5		0800	1.0
				0955	1.0
				1910	0.4
3 WE	0959	1.1	**18** TH	0210	1.0
	1903	0.4		0654	0.8
				1205	1.0
				1912	0.4
4 TH	0224	0.9	**19** FR	0144	1.1
	0555	0.8		0707	0.7
	1156	1.2		1248	1.1
	1917	0.3		1923	0.3
5 FR	0151	1.0	**20** SA	0147	1.2
	0648	0.7		0730	0.6
	1251	1.4		1320	1.2
	1937	0.2		1938	0.3
6 SA	0157	1.2	**21** SU	0200	1.3
	0727	0.5		0755	0.5
	1333	1.5		1350	1.2
	2000	0.1		1955	0.3
7 SU	0214	1.3	**22** MO	0217	1.3
	0804	0.4		0821	0.4
	1411	1.5		1418	1.2
	2024	0.1		2012	0.3
8 MO	0237	1.4	**23** TU	0234	1.4
	0840	0.2		0847	0.3
	1448	1.5		1444	1.2
	2048	0.2		2028	0.3
9 TU	0303	1.5	**24** WE	0252	1.5
	0917	0.2		0914	0.2
	1523	1.4		1510	1.1
	2111	0.2		2044	0.3
10 WE	0329	1.6	**25** TH	0311	1.5
	0955	0.2		0942	0.2
	1557	1.2		1536	1.1
	2130	0.3		2058	0.3
11 TH	0356	1.6	**26** FR	0332	1.6
	1032	0.2		1013	0.2
	1629	1.1		1602	1.0
	2144	0.4		2113	0.4
12 FR	0420	1.6	**27** SA	0355	1.6
	1110	0.3		1047	0.2
	1656	0.9		1629	0.9
	2148	0.4		2126	0.4
13 SA	0443	1.5	**28** SU	0423	1.5
	1149	0.4		1126	0.3
	1712	0.7		1658	0.8
	2141	0.5		2136	0.5
14 SU	0502	1.4	**29** MO	0454	1.5
	1236	0.5		1217	0.4
	1635	0.6		1735	0.7
	2118	0.5		2138	0.5
15 MO	0517	1.3	**30** TU	0532	1.3
	1932	0.5		1343	0.5
				1957	0.6
				2019	0.6

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56350

PAPUA NEW GUINEA - KIETA HARBOUR

LAT 6° 13′ S LONG 155° 38′ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

MAY

	Time	m		Time	m
1 WE	0635	1.2	**16** TH	0647	1.0
	1649	0.5		1711	0.5
2 TH	0917	1.1	**17** FR	0057	1.0
	1746	0.4		0548	0.9
				1020	0.9
				1743	0.5
3 FR	0111	1.0	**18** SA	0046	1.1
	0532	0.8		0638	0.7
	1112	1.2		1144	1.0
	1818	0.3		1811	0.4
4 SA	0100	1.1	**19** SU	0059	1.2
	0634	0.7		0710	0.6
	1218	1.2		1237	1.0
	1846	0.3		1835	0.4
5 SU	0115	1.3	**20** MO	0117	1.3
	0717	0.5		0740	0.5
	1308	1.3		1318	1.0
	1912	0.3		1859	0.4
6 MO	0137	1.4	**21** TU	0137	1.4
	0757	0.3		0808	0.4
	1351	1.2		1354	1.0
	1939	0.3		1920	0.4
7 TU	0204	1.6	**22** WE	0157	1.5
	0835	0.2		0836	0.3
	1432	1.2		1428	1.0
	2004	0.3		1942	0.4
8 WE	0231	1.6	**23** TH	0219	1.5
	0913	0.2		0906	0.2
	1510	1.1		1500	1.0
	2027	0.4		2003	0.4
9 TH	0300	1.7	**24** FR	0244	1.6
	0951	0.1		0939	0.1
	1548	1.0		1533	0.9
	2046	0.4		2025	0.4
10 FR	0328	1.7	**25** SA	0313	1.6
	1029	0.2		1014	0.1
	1624	0.9		1607	0.9
	2100	0.5		2047	0.5
11 SA	0356	1.6	**26** SU	0346	1.6
	1108	0.2		1053	0.2
	1659	0.8		1644	0.8
	2109	0.5		2110	0.5
12 SU	0422	1.5	**27** MO	0422	1.6
	1148	0.3		1138	0.2
	1736	0.7		1728	0.7
	2114	0.6		2133	0.5
13 MO	0448	1.4	**28** TU	0502	1.5
	1236	0.4		1231	0.3
	1834	0.6		1830	0.7
	2109	0.6		2155	0.6
14 TU	0515	1.3	**29** WE	0549	1.4
	1349	0.5		1338	0.4
				2031	0.7
				2204	0.7
15 WE	0545	1.1	**30** TH	0650	1.3
	1609	0.5		1501	0.4
				2346	0.9
			31 FR	0049	0.9
				0827	1.1
				1613	0.4
				2336	1.0

JUNE

	Time	m		Time	m
1 SA	0457	0.8	**16** SU	0559	0.8
	1017	1.1		0944	0.8
	1703	0.4		1632	0.5
				2359	1.2
2 SU	0001	1.2	**17** MO	0700	0.7
	0624	0.7		1141	0.8
	1143	1.0		1717	0.5
	1744	0.4			
3 MO	0031	1.3	**18** TU	0029	1.3
	0716	0.5		0734	0.5
	1248	1.0		1256	0.8
	1819	0.4		1756	0.5
4 TU	0102	1.5	**19** WE	0057	1.4
	0759	0.3		0804	0.4
	1341	1.0		1347	0.8
	1851	0.4		1832	0.5
5 WE	0134	1.6	**20** TH	0126	1.4
	0839	0.2		0834	0.3
	1428	0.9		1428	0.8
	1921	0.5		1906	0.5
6 TH	0207	1.6	**21** FR	0158	1.5
	0916	0.2		0906	0.2
	1510	0.9		1505	0.9
	1949	0.5		1940	0.5
7 FR	0240	1.7	**22** SA	0233	1.6
	0953	0.1		0940	0.1
	1550	0.8		1541	0.9
	2015	0.5		2015	0.5
8 SA	0313	1.6	**23** SU	0310	1.7
	1029	0.2		1017	0.1
	1628	0.8		1617	0.8
	2040	0.5		2050	0.5
9 SU	0346	1.6	**24** MO	0349	1.7
	1105	0.2		1055	0.1
	1705	0.8		1654	0.8
	2107	0.6		2128	0.5
10 MO	0418	1.5	**25** TU	0429	1.6
	1141	0.3		1135	0.2
	1745	0.8		1736	0.8
	2137	0.6		2208	0.6
11 TU	0451	1.4	**26** WE	0509	1.6
	1217	0.4		1217	0.2
	1833	0.8		1825	0.9
	2214	0.7		2254	0.6
12 WE	0522	1.3	**27** TH	0550	1.4
	1257	0.4		1300	0.3
	1942	0.8		1925	0.9
	2300	0.7		2354	0.7
13 TH	0555	1.2	**28** FR	0635	1.3
	1344	0.5		1347	0.4
	2115	0.9		2038	1.0
14 FR	0017	0.8	**29** SA	0129	0.8
	0630	1.1		0732	1.1
	1439	0.5		1438	0.5
	2233	1.0		2154	1.1
15 SA	0314	0.9	**30** SU	0423	0.8
	0725	0.9		0911	0.9
	1538	0.5		1533	0.5
	2323	1.1		2258	1.2

JULY

	Time	m		Time	m
1 MO	0645	0.6	**16** TU	0901	0.7
	1121	0.8		0937	0.7
	1629	0.6		1500	0.6
	2350	1.3		2335	1.2
2 TU	0741	0.5	**17** WE	0754	0.5
	1259	0.8		1338	0.7
	1723	0.6		1650	0.6
3 WE	0035	1.4	**18** TH	0026	1.3
	0819	0.3		0810	0.4
	1400	0.8		1414	0.8
	1812	0.6		1804	0.6
4 TH	0117	1.5	**19** FR	0110	1.4
	0852	0.2		0835	0.2
	1444	0.8		1442	0.8
	1856	0.6		1858	0.6
5 FR	0156	1.6	**20** SA	0151	1.5
	0923	0.2		0903	0.1
	1520	0.8		1509	0.9
	1937	0.6		1943	0.5
6 SA	0233	1.6	**21** SU	0230	1.6
	0952	0.2		0934	0.1
	1552	0.8		1538	0.9
	2015	0.5		2024	0.5
7 SU	0309	1.6	**22** MO	0309	1.7
	1021	0.2		1006	0.0
	1622	0.9		1608	1.0
	2052	0.5		2104	0.5
8 MO	0343	1.6	**23** TU	0347	1.7
	1049	0.2		1039	0.1
	1651	0.9		1640	1.0
	2129	0.5		2144	0.4
9 TU	0415	1.5	**24** WE	0424	1.7
	1116	0.2		1111	0.1
	1721	0.9		1714	1.0
	2206	0.5		2226	0.5
10 WE	0444	1.4	**25** TH	0500	1.6
	1142	0.3		1142	0.2
	1754	0.9		1750	1.1
	2245	0.6		2310	0.5
11 TH	0511	1.3	**26** FR	0534	1.4
	1206	0.3		1211	0.3
	1830	1.0		1831	1.1
	2325	0.6			
12 FR	0534	1.2	**27** SA	0001	0.6
	1230	0.4		0607	1.2
	1914	1.0		1238	0.4
				1920	1.1
13 SA	0012	0.7	**28** SU	0111	0.7
	0553	1.1		0634	1.0
	1253	0.4		1302	0.5
	2007	1.0		2023	1.2
14 SU	0119	0.8	**29** MO	1314	0.6
	0607	1.0		2148	1.2
	1318	0.5			
	2116	1.0			
15 MO	0354	0.8	**30** TU	0755	0.5
	0553	0.8		2319	1.3
	1349	0.5			
	2230	1.1			
			31 WE	0815	0.4
				1446	0.7
				1631	0.7

AUGUST

	Time	m		Time	m
1 TH	0027	1.3	**16** FR	0010	1.2
	0837	0.3		0806	0.3
	1447	0.8		1436	0.8
	1813	0.7		1816	0.7
2 FR	0117	1.4	**17** SA	0103	1.4
	0856	0.2		0822	0.2
	1459	0.9		1438	0.9
	1910	0.6		1910	0.6
3 SA	0157	1.5	**18** SU	0145	1.5
	0915	0.2		0846	0.1
	1516	0.9		1453	1.0
	1952	0.6		1951	0.5
4 SU	0232	1.5	**19** MO	0223	1.7
	0935	0.2		0912	0.0
	1536	1.0		1516	1.1
	2028	0.5		2029	0.4
5 MO	0304	1.6	**20** TU	0259	1.7
	0956	0.2		0939	0.0
	1557	1.0		1542	1.1
	2102	0.5		2107	0.3
6 TU	0334	1.6	**21** WE	0335	1.7
	1017	0.2		1006	0.1
	1621	1.1		1610	1.2
	2135	0.4		2145	0.3
7 WE	0401	1.5	**22** TH	0409	1.6
	1037	0.2		1033	0.1
	1644	1.1		1639	1.3
	2206	0.4		2224	0.3
8 TH	0425	1.4	**23** FR	0442	1.5
	1056	0.2		1057	0.2
	1708	1.1		1710	1.3
	2238	0.5		2306	0.4
9 FR	0446	1.3	**24** SA	0512	1.3
	1112	0.3		1117	0.3
	1733	1.2		1742	1.3
	2310	0.5		2351	0.5
10 SA	0503	1.2	**25** SU	0536	1.0
	1126	0.3		1128	0.4
	1758	1.2		1815	1.3
	2344	0.6			
11 SU	0517	1.1	**26** MO	0049	0.6
	1137	0.4		0531	0.8
	1826	1.1		1117	0.5
				1856	1.2
12 MO	0025	0.7	**27** TU	1003	0.5
	0525	0.9		2013	1.1
	1143	0.4			
	1903	1.1			
13 TU	0134	0.7	**28** WE	0807	0.4
	0510	0.8		2309	1.1
	1135	0.5			
	2014	1.1			
14 WE	1013	0.6	**29** TH	0813	0.3
	2237	1.1		1529	0.9
				1740	0.9
15 TH	0810	0.5	**30** FR	0036	1.2
				0824	0.3
				1447	0.9
				1854	0.7
			31 SA	0119	1.3
				0835	0.2
				1442	1.0
				1930	0.6

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56350

PAPUA NEW GUINEA - KIETA HARBOUR

LAT 6° 13′ S LONG 155° 38′ E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

TIME ZONE -1000

YEAR 2024

SEPTEMBER

	Time	m		Time	m
1 SU	0152 1.4 0847 0.2 1450 1.0 2000 0.5		**16** MO	0129 1.5 0814 0.1 1423 1.1 1948 0.4	
2 MO	0221 1.5 0901 0.2 1506 1.1 2029 0.4		**17** TU	0206 1.6 0837 0.1 1444 1.3 2024 0.3	
3 TU	0248 1.5 0918 0.2 1524 1.2 2057 0.4		**18** WE	0241 1.6 0902 0.1 1509 1.4 2101 0.2	
4 WE	0314 1.5 0935 0.2 1544 1.3 2126 0.3		**19** TH	0316 1.6 0926 0.1 1536 1.5 2139 0.2	
5 TH	0338 1.4 0952 0.2 1604 1.3 2154 0.3		**20** FR	0350 1.5 0949 0.2 1603 1.5 2217 0.2	
6 FR	0359 1.3 1006 0.2 1623 1.3 2221 0.3		**21** SA	0422 1.3 1008 0.3 1631 1.5 2258 0.3	
7 SA	0418 1.2 1018 0.3 1642 1.3 2250 0.4		**22** SU	0451 1.1 1020 0.4 1657 1.5 2340 0.4	
8 SU	0434 1.1 1028 0.3 1701 1.3 2319 0.5		**23** MO	0512 0.9 1016 0.5 1722 1.4	
9 MO	0447 1.0 1035 0.4 1722 1.3 2354 0.5		**24** TU	0033 0.6 0439 0.7 0947 0.5 1741 1.3	
10 TU	0454 0.9 1035 0.4 1747 1.2		**25** WE	0806 0.5 1753 1.1	
11 WE	0047 0.6 0441 0.7 1018 0.5 1825 1.1		**26** TH	0734 0.4 1716 1.0 1904 1.0 2307 1.0	
12 TH	0853 0.5 2141 1.1		**27** FR	0741 0.4 1440 1.0 1853 0.8	
13 FR	0739 0.4 1527 0.9 1709 0.9 2356 1.2		**28** SA	0029 1.1 0748 0.3 1411 1.0 1908 0.7	
14 SA	0737 0.3 1414 0.9 1832 0.7		**29** SU	0104 1.2 0754 0.3 1407 1.1 1930 0.6	
15 SU	0049 1.4 0752 0.2 1410 1.0 1912 0.6		**30** MO	0133 1.3 0805 0.2 1416 1.2 1954 0.5	

OCTOBER

	Time	m		Time	m
1 TU	0200 1.4 0818 0.2 1431 1.3 2019 0.4		**16** WE	0145 1.5 0756 0.1 1411 1.4 2017 0.2	
2 WE	0225 1.4 0834 0.2 1449 1.4 2046 0.3		**17** TH	0222 1.4 0820 0.2 1437 1.6 2055 0.2	
3 TH	0250 1.3 0850 0.2 1507 1.4 2112 0.3		**18** FR	0259 1.4 0844 0.2 1504 1.6 2133 0.1	
4 FR	0314 1.3 0905 0.2 1525 1.5 2139 0.2		**19** SA	0335 1.2 0905 0.3 1532 1.7 2212 0.2	
5 SA	0335 1.2 0918 0.3 1543 1.5 2206 0.2		**20** SU	0409 1.0 0921 0.4 1559 1.6 2253 0.2	
6 SU	0355 1.1 0929 0.3 1601 1.5 2234 0.3		**21** MO	0442 0.9 0927 0.4 1625 1.6 2335 0.4	
7 MO	0413 1.0 0938 0.4 1621 1.4 2305 0.3		**22** TU	0509 0.7 0920 0.5 1647 1.4	
8 TU	0430 0.9 0945 0.4 1643 1.4 2344 0.4		**23** WE	0028 0.5 0506 0.6 0853 0.5 1703 1.3	
9 WE	0443 0.8 0944 0.5 1709 1.3		**24** TH	0636 0.5 1710 1.1	
10 TH	0045 0.6 0436 0.7 0922 0.5 1745 1.2		**25** FR	0639 0.5 1625 1.0 1937 1.0 2122 1.0	
11 FR	0712 0.5 2050 1.1		**26** SA	0645 0.4 1350 1.0 1847 0.8 2343 1.0	
12 SA	0639 0.4 1423 0.9 1731 0.9 2323 1.2		**27** SU	0650 0.4 1325 1.1 1857 0.7	
13 SU	0650 0.3 1332 1.0 1825 0.7		**28** MO	0029 1.1 0700 0.4 1326 1.2 1918 0.6	
14 MO	0022 1.3 0709 0.2 1332 1.2 1903 0.5		**29** TU	0102 1.1 0714 0.3 1339 1.3 1942 0.5	
15 TU	0106 1.4 0732 0.2 1348 1.3 1940 0.4		**30** WE	0133 1.2 0731 0.3 1356 1.4 2008 0.4	
			31 TH	0202 1.2 0748 0.3 1415 1.5 2035 0.3	

NOVEMBER

	Time	m		Time	m
1 FR	0229 1.1 0805 0.3 1433 1.5 2101 0.2		**16** SA	0250 1.1 0805 0.3 1439 1.7 2133 0.1	
2 SA	0256 1.1 0821 0.3 1452 1.5 2129 0.2		**17** SU	0330 1.0 0828 0.4 1510 1.7 2213 0.1	
3 SU	0321 1.0 0836 0.4 1513 1.6 2158 0.2		**18** MO	0409 0.9 0846 0.5 1540 1.7 2253 0.2	
4 MO	0346 0.9 0851 0.4 1536 1.6 2230 0.2		**19** TU	0447 0.8 0858 0.5 1610 1.6 2334 0.3	
5 TU	0411 0.9 0904 0.4 1602 1.5 2307 0.3		**20** WE	0527 0.7 0904 0.6 1638 1.5	
6 WE	0438 0.8 0915 0.5 1632 1.5 2353 0.4		**21** TH	0020 0.4 0621 0.7 0903 0.6 1705 1.3	
7 TH	0512 0.7 0921 0.5 1707 1.4		**22** FR	0122 0.5 1731 1.2	
8 FR	0102 0.5 0624 0.6 0859 0.6 1755 1.2		**23** SA	0314 0.5 1801 1.0	
9 SA	0336 0.5 2000 1.1		**24** SU	0439 0.5 1247 1.0 1805 0.9 2142 0.9	
10 SU	0509 0.4 1310 0.9 1648 0.9 2227 1.1		**25** MO	0517 0.5 1228 1.1 1841 0.7 2327 0.9	
11 MO	0546 0.4 1238 1.1 1809 0.7 2345 1.2		**26** TU	0547 0.5 1241 1.2 1909 0.6	
12 TU	0616 0.3 1250 1.3 1855 0.5		**27** WE	0026 0.9 0614 0.4 1301 1.3 1936 0.5	
13 WE	0040 1.2 0644 0.3 1312 1.4 1936 0.4		**28** TH	0109 0.9 0640 0.4 1323 1.4 2003 0.4	
14 TH	0126 1.2 0712 0.3 1339 1.6 2015 0.2		**29** FR	0147 1.0 0704 0.4 1344 1.5 2030 0.3	
15 FR	0209 1.2 0739 0.3 1409 1.7 2054 0.1		**30** SA	0221 0.9 0726 0.4 1407 1.5 2058 0.2	

DECEMBER

	Time	m		Time	m
1 SU	0253 0.9 0749 0.4 1432 1.6 2128 0.1		**16** MO	0338 0.9 0810 0.5 1502 1.7 2215 0.1	
2 MO	0323 0.9 0811 0.4 1500 1.6 2201 0.1		**17** TU	0414 0.8 0840 0.5 1537 1.6 2250 0.2	
3 TU	0354 0.9 0835 0.5 1531 1.6 2236 0.2		**18** WE	0449 0.8 0909 0.5 1610 1.6 2323 0.2	
4 WE	0426 0.8 0859 0.5 1605 1.6 2315 0.2		**19** TH	0524 0.8 0940 0.6 1641 1.5 2355 0.3	
5 TH	0503 0.8 0924 0.5 1641 1.5 2359 0.3		**20** FR	0603 0.8 1015 0.6 1710 1.4	
6 FR	0550 0.8 0951 0.6 1721 1.4		**21** SA	0027 0.4 0651 0.8 1056 0.7 1736 1.2	
7 SA	0051 0.4 0659 0.8 1024 0.7 1807 1.3		**22** SU	0100 0.5 0801 0.9 1151 0.8 1757 1.1	
8 SU	0155 0.4 0903 0.8 1124 0.8 1914 1.2		**23** MO	0140 0.5 0931 0.9 1353 0.9 1810 0.9	
9 MO	0311 0.5 1047 1.0 1527 0.9 2109 1.0		**24** TU	0233 0.5 1050 1.0	
10 TU	0417 0.5 1129 1.1 1801 0.7 2303 1.0		**25** WE	0343 0.6 1142 1.1 1938 0.7 2346 0.7	
11 WE	0509 0.5 1205 1.3 1902 0.5		**26** TH	0449 0.6 1220 1.2 1951 0.5	
12 TH	0025 0.9 0552 0.5 1240 1.5 1946 0.4		**27** FR	0114 0.8 0543 0.6 1252 1.3 2012 0.4	
13 FR	0125 0.9 0630 0.5 1315 1.6 2025 0.2		**28** SA	0200 0.8 0626 0.6 1323 1.4 2036 0.3	
14 SA	0214 0.9 0706 0.5 1351 1.7 2103 0.1		**29** SU	0235 0.8 0703 0.6 1354 1.5 2102 0.2	
15 SU	0258 0.9 0739 0.5 1426 1.7 2140 0.1		**30** MO	0305 0.9 0738 0.5 1426 1.6 2131 0.1	
			31 TU	0334 0.9 0811 0.5 1500 1.6 2202 0.1	

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

56350

AUSTRALIA, QUEENSLAND - TWIN ISLAND

LAT 10° 28´ S LONG 142° 26´ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

JANUARY

	Time	m		Time	m
1 MO	0522	1.0	**16** TU	0347	1.6
	1347	2.5		0644	1.3
				1550	2.8
2 TU	0510	1.0	**17** WE	0024	1.0
	1245	2.4		1647	2.4
3 WE	0255	1.0	**18** TH	0152	0.9
	1147	2.4		1007	2.3
				1434	1.8
				1910	2.0
4 TH	0300	1.0	**19** FR	0246	0.8
	1122	2.4		1013	2.7
				1609	1.4
				2101	1.9
5 FR	0308	1.0	**20** SA	0326	0.8
	1103	2.5		1023	3.0
	1753	1.7		1701	1.1
	2058	1.8		2158	1.9
6 SA	0321	0.9	**21** SU	0359	0.8
	1051	2.7		1043	3.3
	1744	1.5		1739	0.8
	2128	1.8		2237	1.9
7 SU	0338	0.9	**22** MO	0428	0.7
	1044	2.9		1108	3.4
	1743	1.3		1814	0.6
	2157	1.8		2310	1.9
8 MO	0357	0.8	**23** TU	0452	0.7
	1047	3.1		1136	3.5
	1756	1.1		1847	0.6
	2229	1.8		2339	1.9
9 TU	0421	0.7	**24** WE	0510	0.7
	1103	3.3		1203	3.5
	1822	1.0		1918	0.7
	2306	1.9			
10 WE	0451	0.6	**25** TH	0002	1.9
	1129	3.5		0524	0.7
	1856	0.8		1228	3.4
	2345	2.0		1946	0.8
11 TH	0527	0.5	**26** FR	0022	1.9
	1205	3.6		0527	0.7
	1935	0.7		1249	3.2
				2010	1.0
12 FR	0026	2.0	**27** SA	0038	1.8
	0605	0.5		0517	0.7
	1247	3.6		1304	3.1
	2017	0.7		2031	1.1
13 SA	0110	2.0	**28** SU	0054	1.8
	0642	0.6		0523	0.8
	1332	3.6		1314	3.0
	2102	0.7		2046	1.2
14 SU	0156	1.9	**29** MO	0110	1.7
	0624	0.8		0533	0.8
	1417	3.4		1312	2.8
	2152	0.8		2053	1.4
15 MO	0246	1.8	**30** TU	0118	1.7
	0630	1.0		0543	0.9
	1503	3.2		1251	2.7
	2253	0.9		2049	1.5
			31 WE	0015	1.6
				0548	1.1
				1230	2.6

FEBRUARY

	Time	m		Time	m
1 TH	0541	1.3	**16** FR	0111	1.4
	1153	2.5		0950	2.5
	1907	1.5		1651	1.4
	2256	1.7		2215	1.8
2 FR	0312	1.4	**17** SA	0241	1.3
	1113	2.5		1002	2.9
	1829	1.4		1651	0.9
	2306	1.7		2239	1.9
3 SA	0257	1.4	**18** SU	0327	1.2
	1046	2.6		1013	3.1
	1801	1.2		1708	0.6
	2308	1.7		2247	1.9
4 SU	0309	1.3	**19** MO	0402	1.1
	1035	2.8		1028	3.3
	1746	1.1		1730	0.5
	2244	1.7		2259	2.0
5 MO	0325	1.2	**20** TU	0430	1.0
	1030	3.0		1049	3.4
	1746	0.9		1755	0.4
	2227	1.8		2315	2.1
6 TU	0347	1.0	**21** WE	0455	0.8
	1032	3.2		1114	3.4
	1753	0.8		1821	0.5
	2238	1.9		2332	2.1
7 WE	0417	0.8	**22** TH	0515	0.8
	1047	3.4		1138	3.4
	1811	0.7		1845	0.6
	2305	2.1		2348	2.2
8 TH	0454	0.6	**23** FR	0530	0.7
	1116	3.6		1159	3.3
	1838	0.5		1904	0.8
	2339	2.2			
9 FR	0535	0.4	**24** SA	0002	2.2
	1153	3.8		0539	0.7
	1911	0.5		1217	3.2
				1919	0.9
10 SA	0017	2.3	**25** SU	0017	2.2
	0616	0.3		0522	0.8
	1233	3.8		1229	3.1
	1947	0.5		1928	1.0
11 SU	0056	2.3	**26** MO	0032	2.2
	0655	0.4		0515	0.8
	1313	3.7		1235	3.0
	2024	0.6		1932	1.1
12 MO	0137	2.3	**27** TU	0049	2.2
	0732	0.6		0527	0.9
	1351	3.5		1226	2.9
	2104	0.8		1922	1.2
13 TU	0220	2.2	**28** WE	0104	2.2
	0804	1.0		0540	1.1
	1427	3.1		1206	2.7
	2148	1.0		1827	1.2
14 WE	0309	2.0	**29** TH	0109	2.1
	0637	1.4		0551	1.3
	1455	2.6		1151	2.6
	2249	1.3		1824	1.1
15 TH	0427	1.9			
	0631	1.8			
	1418	2.0			

MARCH

	Time	m		Time	m
1 FR	0035	2.0	**16** SA	0907	2.6
	0553	1.5		1623	1.0
	1125	2.5		2246	2.0
	1819	1.1			
2 SA	1036	2.5	**17** SU	0242	1.8
	1759	1.0		0927	2.9
	2339	2.0		1626	0.6
				2250	2.1
3 SU	0321	1.8	**18** MO	0324	1.6
	1002	2.6		0940	3.1
	1721	0.9		1642	0.4
	2332	2.0		2249	2.2
4 MO	0311	1.7	**19** TU	0352	1.4
	0958	2.8		0954	3.2
	1706	0.8		1701	0.4
	2310	1.9		2252	2.2
5 TU	0321	1.5	**20** WE	0418	1.2
	0957	3.0		1013	3.3
	1711	0.7		1723	0.4
	2239	2.0		2300	2.3
6 WE	0343	1.2	**21** TH	0440	1.0
	1002	3.2		1036	3.3
	1723	0.6		1744	0.5
	2234	2.1		2310	2.4
7 TH	0414	0.9	**22** FR	0500	0.9
	1022	3.5		1059	3.3
	1743	0.5		1802	0.7
	2254	2.3		2324	2.4
8 FR	0451	0.6	**23** SA	0517	0.9
	1054	3.7		1120	3.2
	1810	0.4		1817	0.8
	2324	2.5		2339	2.4
9 SA	0530	0.4	**24** SU	0532	0.9
	1130	3.8		1138	3.1
	1840	0.4		1828	0.9
				2357	2.5
10 SU	0000	2.6	**25** MO	0539	1.0
	0610	0.4		1152	3.0
	1207	3.8		1836	0.9
	1913	0.4			
11 MO	0038	2.7	**26** TU	0015	2.6
	0650	0.5		0516	1.1
	1244	3.7		1200	2.9
	1945	0.5		1834	0.9
12 TU	0116	2.7	**27** WE	0034	2.6
	0729	0.7		0523	1.2
	1318	3.3		1147	2.7
	2016	0.7		1740	0.9
13 WE	0156	2.7	**28** TH	0052	2.6
	0812	1.2		0536	1.4
	1347	2.8		1121	2.5
	2043	1.0		1740	0.9
14 TH	0241	2.5	**29** FR	0103	2.6
	0914	1.7		0551	1.6
	1353	2.2		1111	2.4
	1831	1.3		1745	0.9
15 FR	0344	2.3	**30** SA	0101	2.5
	1819	1.2		0600	1.8
				1046	2.2
				1745	0.9
			31 SU	0039	2.4
				0559	2.0
				0906	2.3
				1727	0.9

APRIL

	Time	m		Time	m
1 MO	0902	2.5	**16** TU	0300	1.8
	1627	0.8		0842	2.9
	2323	2.2		1606	0.5
				2236	2.3
2 TU	0246	2.0	**17** WE	0329	1.6
	0902	2.8		0904	3.0
	1621	0.7		1626	0.5
	2251	2.1		2235	2.3
3 WE	0259	1.7	**18** TH	0353	1.4
	0905	3.0		0927	3.0
	1630	0.6		1645	0.6
	2219	2.1		2239	2.4
4 TH	0326	1.3	**19** FR	0415	1.3
	0921	3.3		0951	3.0
	1647	0.5		1701	0.7
	2216	2.3		2248	2.4
5 FR	0401	1.0	**20** SA	0437	1.2
	0950	3.5		1016	3.0
	1710	0.4		1715	0.7
	2237	2.5		2302	2.5
6 SA	0439	0.8	**21** SU	0459	1.2
	1025	3.6		1039	3.0
	1739	0.4		1728	0.8
	2307	2.7		2320	2.7
7 SU	0520	0.7	**22** MO	0522	1.3
	1101	3.6		1101	2.9
	1807	0.4		1739	0.8
	2342	2.9		2339	2.8
8 MO	0600	0.6	**23** TU	0546	1.3
	1138	3.5		1120	2.7
	1836	0.4		1747	0.8
				2359	2.9
9 TU	0019	3.1	**24** WE	0612	1.4
	0642	0.8		1137	2.6
	1213	3.3		1700	0.8
	1904	0.6			
10 WE	0056	3.1	**25** TH	0019	3.0
	0726	1.0		0643	1.5
	1245	2.9		1145	2.3
	1927	0.8		1656	0.8
11 TH	0135	3.1	**26** FR	0037	3.0
	0817	1.3		0718	1.6
	1312	2.3		1048	2.1
	1742	1.0		1707	0.7
12 FR	0216	3.0	**27** SA	0053	3.0
	0942	1.6		0805	1.8
	1306	1.8		1041	2.0
	1749	1.0		1720	0.8
13 SA	0317	2.8	**28** SU	0112	2.9
	1736	1.1		1728	0.9
14 SU	0517	2.6	**29** MO	0147	2.7
	1536	0.8		1709	1.0
	2251	2.1			
15 MO	0210	2.1	**30** TU	0439	2.5
	0823	2.8		1524	0.9
	1548	0.6		2316	2.1
	2239	2.2			

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

58100

AUSTRALIA, QUEENSLAND - TWIN ISLAND

LAT 10° 28´ S LONG 142° 26´ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

MAY

	Time	m		Time	m
1 WE	0100	2.1	**16** TH	0255	1.8
	0718	2.7		0803	2.7
	1528	0.7		1545	0.7
	2220	2.1		2229	2.3
2 TH	0208	1.8	**17** FR	0326	1.7
	0801	3.0		0838	2.7
	1546	0.6		1602	0.8
	2145	2.2		2230	2.4
3 FR	0256	1.5	**18** SA	0352	1.6
	0839	3.2		0908	2.7
	1609	0.5		1615	0.8
	2153	2.4		2237	2.5
4 SA	0342	1.2	**19** SU	0419	1.5
	0917	3.3		0937	2.6
	1637	0.5		1627	0.8
	2220	2.6		2249	2.6
5 SU	0427	1.1	**20** MO	0448	1.5
	0956	3.3		1004	2.5
	1705	0.5		1640	0.8
	2253	2.9		2303	2.8
6 MO	0511	1.0	**21** TU	0517	1.5
	1034	3.2		1031	2.4
	1733	0.5		1652	0.8
	2327	3.1		2321	3.0
7 TU	0555	1.0	**22** WE	0548	1.4
	1112	3.0		1059	2.3
	1800	0.5		1655	0.8
				2341	3.1
8 WE	0003	3.3	**23** TH	0623	1.4
	0641	1.0		1129	2.2
	1148	2.7		1618	0.7
	1822	0.6			
9 TH	0039	3.4	**24** FR	0002	3.2
	0731	1.1		0701	1.4
	1224	2.3		1200	2.0
	1832	0.8		1631	0.7
10 FR	0116	3.4	**25** SA	0024	3.2
	0832	1.3		0746	1.4
	1257	1.9		1232	1.8
	1713	0.8		1652	0.8
11 SA	0158	3.2	**26** SU	0051	3.2
	1006	1.4		0846	1.5
	1329	1.5		1305	1.7
	1727	1.0		1716	0.8
12 SU	0258	3.0	**27** MO	0128	3.0
	1722	1.1		1121	1.4
				1354	1.5
				1741	1.0
13 MO	0423	2.8	**28** TU	0234	2.9
	1436	0.9		1307	1.2
14 TU	0558	2.7	**29** WE	0409	2.8
	1502	0.8		1352	1.0
	2235	2.2			
15 WE	0212	2.0	**30** TH	0538	2.8
	0717	2.7		1427	0.9
	1525	0.7		2147	1.9
	2230	2.2			
			31 FR	0112	1.8
				0702	2.9
				1500	0.7
				2117	2.2

JUNE

	Time	m		Time	m
1 SA	0232	1.6	**16** SU	0359	1.8
	0801	2.9		0836	2.2
	1533	0.6		1529	0.9
	2138	2.5		2240	2.5
2 SU	0332	1.4	**17** MO	0432	1.7
	0851	2.8		0914	2.1
	1604	0.6		1543	0.9
	2211	2.8		2242	2.7
3 MO	0425	1.3	**18** TU	0502	1.6
	0936	2.7		0946	2.0
	1634	0.6		1557	0.9
	2245	3.1		2249	2.9
4 TU	0515	1.1	**19** WE	0529	1.4
	1019	2.5		1018	2.0
	1701	0.6		1611	0.8
	2320	3.3		2301	3.1
5 WE	0605	1.1	**20** TH	0559	1.3
	1101	2.4		1051	2.0
	1725	0.6		1618	0.8
	2354	3.4		2320	3.3
6 TH	0656	1.0	**21** FR	0634	1.2
	1141	2.2		1128	2.0
	1746	0.7		1611	0.7
				2347	3.3
7 FR	0029	3.5	**22** SA	0713	1.1
	0748	1.0		1207	1.9
	1221	2.0		1633	0.7
	1653	0.8			
8 SA	0106	3.4	**23** SU	0020	3.4
	0843	1.0		0758	1.1
	1302	1.8		1248	1.9
	1707	0.9		1703	0.7
9 SU	0148	3.3	**24** MO	0101	3.3
	0942	1.1		0848	1.1
	1346	1.6		1334	1.8
	1727	1.0		1737	0.8
10 MO	0236	3.1	**25** TU	0151	3.2
	1049	1.1		0945	1.1
	1440	1.4		1425	1.7
	1739	1.1		1813	1.0
11 TU	0331	2.8	**26** WE	0245	3.1
	1226	1.1		1050	1.1
				1526	1.6
				1847	1.2
12 WE	0430	2.6	**27** TH	0341	3.0
	1359	1.1		1209	1.1
				1650	1.6
				1913	1.5
13 TH	0536	2.5	**28** FR	0441	2.8
	1439	1.0		1328	1.0
	2312	2.2		2150	1.9
14 FR	0231	2.1	**29** SA	0043	1.8
	0648	2.4		0600	2.6
	1502	1.0		1422	0.9
	2256	2.3		2117	2.2
15 SA	0321	1.9	**30** SU	0233	1.7
	0750	2.3		0739	2.4
	1517	1.0		1502	0.8
	2244	2.4		2140	2.6

JULY

	Time	m		Time	m
1 MO	0346	1.5	**16** TU	0553	1.4
	0846	2.2		0937	1.7
	1538	0.8		1509	1.1
	2211	3.0		2232	2.8
2 TU	0446	1.2	**17** WE	0557	1.3
	0940	2.1		0957	1.7
	1609	0.7		1527	1.0
	2244	3.2		2230	3.0
3 WE	0539	1.0	**18** TH	0602	1.1
	1028	2.1		1019	1.8
	1637	0.7		1548	0.9
	2317	3.4		2239	3.2
4 TH	0626	0.8	**19** FR	0612	1.0
	1110	2.0		1048	1.9
	1704	0.7		1618	0.8
	2351	3.5		2301	3.4
5 FR	0708	0.8	**20** SA	0633	0.9
	1149	2.0		1123	2.0
	1729	0.7		1658	0.7
				2336	3.5
6 SA	0024	3.5	**21** SU	0706	0.8
	0747	0.8		1202	2.1
	1224	1.9		1741	0.6
	1751	0.7			
7 SU	0057	3.4	**22** MO	0017	3.5
	0824	0.9		0743	0.8
	1257	1.8		1244	2.2
	1746	0.8		1823	0.6
8 MO	0130	3.2	**23** TU	0102	3.6
	0901	1.0		0823	0.8
	1327	1.8		1328	2.1
	1737	0.9		1900	0.7
9 TU	0201	3.1	**24** WE	0144	3.5
	0940	1.1		0907	0.8
	1356	1.7		1413	2.1
	1748	1.0		1922	0.9
10 WE	0227	2.8	**25** TH	0227	3.3
	1029	1.3		0957	1.0
	1427	1.5		1504	2.0
	1757	1.1		1903	1.2
11 TH	0245	2.6	**26** FR	0309	3.0
	1155	1.4		1101	1.1
				1610	1.9
				1916	1.6
12 FR	0206	2.4	**27** SA	0352	2.5
	1347	1.3		1232	1.1
				2135	2.1
13 SA	0020	2.3	**28** SU	0115	1.8
	1420	1.3		0501	2.1
	2321	2.3		1351	1.1
				2136	2.5
14 SU	1437	1.2	**29** MO	0332	1.5
	2251	2.5		0819	1.8
				1443	1.0
				2147	2.9
15 MO	0553	1.6	**30** TU	0434	1.1
	0912	1.7		0936	1.9
	1453	1.2		1524	1.0
	2237	2.6		2210	3.2
			31 WE	0512	0.8
				1016	1.9
				1600	0.9
				2237	3.4

AUGUST

	Time	m		Time	m
1 TH	0546	0.6	**16** FR	0536	0.8
	1049	2.0		1021	1.9
	1632	0.8		1542	1.0
	2308	3.5		2215	3.3
2 FR	0620	0.5	**17** SA	0548	0.7
	1120	2.0		1040	2.0
	1701	0.7		1619	0.7
	2339	3.5		2242	3.5
3 SA	0652	0.6	**18** SU	0610	0.7
	1147	2.1		1111	2.2
	1728	0.7		1702	0.5
				2320	3.6
4 SU	0007	3.4	**19** MO	0641	0.6
	0721	0.7		1148	2.4
	1212	2.0		1747	0.4
	1751	0.7			
5 MO	0034	3.3	**20** TU	0001	3.7
	0747	0.8		0716	0.6
	1234	2.0		1228	2.4
	1756	0.8		1830	0.4
6 TU	0057	3.2	**21** WE	0042	3.7
	0810	1.0		0751	0.6
	1254	2.0		1311	2.5
	1727	0.8		1911	0.6
7 WE	0113	3.1	**22** TH	0121	3.5
	0828	1.1		0829	0.7
	1313	1.9		1354	2.4
	1736	0.9		1951	0.9
8 TH	0118	2.9	**23** FR	0158	3.2
	0836	1.3		0909	0.9
	1335	1.9		1443	2.3
	1748	1.0		2040	1.3
9 FR	0059	2.7	**24** SA	0232	2.7
	0825	1.4		0957	1.2
	1356	1.8		1546	2.2
	1756	1.2		2232	1.8
10 SA	0028	2.5	**25** SU	0259	2.1
	0713	1.4		1122	1.4
	2351	2.4		2055	2.4
11 SU	0657	1.4	**26** MO	0412	1.5
	1123	1.7		0944	1.7
	1351	1.6		1330	1.4
	2259	2.4		2117	2.8
12 MO	0622	1.3	**27** TU	0413	1.0
	1113	1.7		1012	1.9
	1415	1.6		1440	1.3
	2218	2.5		2133	3.1
13 TU	0542	1.2	**28** WE	0436	0.6
	1107	1.7		1023	2.0
	1434	1.5		1525	1.2
	2207	2.7		2152	3.3
14 WE	0527	1.0	**29** TH	0501	0.4
	1048	1.7		1034	2.1
	1452	1.3		1600	1.0
	2204	2.9		2216	3.4
15 TH	0529	0.9	**30** FR	0527	0.4
	1023	1.8		1049	2.2
	1514	1.2		1630	0.9
	2203	3.1		2243	3.5
			31 SA	0554	0.4
				1108	2.2
				1656	0.8
				2310	3.4

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

58100

AUSTRALIA, QUEENSLAND - TWIN ISLAND

LAT 10° 28´ S LONG 142° 26´ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

SEPTEMBER

	Time	m		Time	m
1 SU	0619	0.6	**16** MO	0540	0.5
	1127	2.2		1055	2.4
	1719	0.7		1658	0.5
	2335	3.4		2256	3.7
2 MO	0641	0.7	**17** TU	0611	0.5
	1146	2.3		1131	2.6
	1737	0.7		1742	0.5
	2358	3.3		2336	3.7
3 TU	0659	0.9	**18** WE	0643	0.5
	1205	2.3		1210	2.7
	1735	0.8		1825	0.5
4 WE	0014	3.1	**19** TH	0014	3.6
	0712	1.0		0716	0.5
	1222	2.3		1252	2.8
	1703	0.9		1909	0.7
5 TH	0022	3.0	**20** FR	0052	3.3
	0717	1.0		0748	0.7
	1240	2.3		1335	2.8
	1716	1.0		1957	1.1
6 FR	0013	2.8	**21** SA	0126	2.8
	0651	1.1		0818	0.9
	2348	2.6		1422	2.7
				2102	1.5
7 SA	0608	1.1	**22** SU	0156	2.2
	1312	2.2		0614	1.2
	1743	1.4		1527	2.6
	2331	2.5			
8 SU	0605	1.0	**23** MO	0609	1.2
	1308	2.1		1741	2.5
	1748	1.6			
	2306	2.4			
9 MO	0600	1.0	**24** TU	0327	1.0
	1214	2.1		1000	1.9
	1736	1.9		1307	1.7
	2209	2.4		2037	2.9
10 TU	0541	1.0	**25** WE	0346	0.6
	1139	2.0		1012	2.1
	1439	1.9		1435	1.5
	2126	2.5		2058	3.1
11 WE	0458	0.9	**26** TH	0409	0.4
	1115	2.0		1018	2.2
	1434	1.8		1517	1.3
	2124	2.7		2119	3.2
12 TH	0442	0.8	**27** FR	0432	0.3
	1049	1.9		1024	2.3
	1446	1.5		1548	1.1
	2123	2.9		2142	3.3
13 FR	0447	0.7	**28** SA	0456	0.3
	1019	2.0		1033	2.3
	1507	1.3		1615	1.0
	2127	3.2		2207	3.3
14 SA	0457	0.6	**29** SU	0519	0.5
	1009	2.1		1047	2.4
	1538	1.0		1639	0.9
	2147	3.4		2232	3.3
15 SU	0515	0.6	**30** MO	0539	0.6
	1025	2.3		1103	2.4
	1616	0.7		1701	0.9
	2219	3.6		2256	3.2

OCTOBER

	Time	m		Time	m
1 TU	0554	0.7	**16** WE	0539	0.4
	1122	2.5		1116	2.9
	1720	1.0		1736	0.7
	2316	3.1		2309	3.4
2 WE	0607	0.8	**17** TH	0609	0.4
	1140	2.5		1154	3.0
	1731	1.1		1822	0.8
	2331	2.9		2347	3.1
3 TH	0613	0.8	**18** FR	0638	0.5
	1158	2.6		1233	3.2
	1654	1.2		1910	1.0
	2338	2.8			
4 FR	0552	0.9	**19** SA	0024	2.8
	1216	2.6		0704	0.7
	1709	1.3		1315	3.2
	2319	2.6		2006	1.2
5 SA	0517	0.8	**20** SU	0101	2.3
	1233	2.6		0520	0.9
	1726	1.5		1403	3.1
	2252	2.4		2128	1.4
6 SU	0519	0.8	**21** MO	0136	1.7
	1244	2.6		0531	1.0
	1739	1.7		1510	2.9
	2241	2.2			
7 MO	0522	0.8	**22** TU	0527	1.1
	1235	2.5		1651	2.8
	1746	1.9			
	2220	2.1			
8 TU	0522	0.8	**23** WE	0239	0.8
	1217	2.4		1904	2.8
	1745	2.1			
	2024	2.2			
9 WE	0507	0.8	**24** TH	0307	0.5
	1155	2.3		0958	2.2
	1456	2.2		1410	1.7
	2029	2.4		2001	3.0
10 TH	0404	0.8	**25** FR	0334	0.3
	1107	2.1		1005	2.3
	1416	2.0		1455	1.5
	2029	2.7		2033	3.0
11 FR	0355	0.7	**26** SA	0358	0.3
	1030	2.1		1011	2.4
	1425	1.7		1528	1.3
	2030	2.9		2102	3.0
12 SA	0403	0.6	**27** SU	0421	0.4
	0958	2.1		1019	2.4
	1452	1.4		1555	1.2
	2049	3.2		2128	3.0
13 SU	0418	0.5	**28** MO	0439	0.5
	0951	2.3		1032	2.5
	1527	1.1		1622	1.2
	2118	3.4		2154	2.9
14 MO	0441	0.4	**29** TU	0454	0.6
	1011	2.5		1049	2.6
	1609	0.9		1647	1.2
	2152	3.5		2218	2.8
15 TU	0508	0.4	**30** WE	0506	0.7
	1041	2.7		1107	2.7
	1652	0.8		1713	1.3
	2230	3.5		2239	2.7
			31 TH	0515	0.7
				1124	2.8
				1737	1.4
				2258	2.5

NOVEMBER

	Time	m		Time	m
1 FR	0510	0.7	**16** SA	0601	0.5
	1142	2.9		1221	3.4
	1803	1.4		1921	1.0
	2316	2.3			
2 SA	0434	0.7	**17** SU	0010	2.2
	1200	3.0		0619	0.7
	1834	1.5		1302	3.4
	2324	2.1		2024	1.1
3 SU	0438	0.7	**18** MO	0053	1.8
	1217	3.0		0454	0.8
	1912	1.6		1350	3.3
	2211	1.9		2145	1.1
4 MO	0447	0.7	**19** TU	0145	1.5
	1231	2.9		0510	0.9
	2000	1.7		1453	3.1
	2202	1.8		2333	1.0
5 TU	0456	0.7	**20** WE	1609	2.9
	1242	2.8			
6 WE	0504	0.8	**21** TH	0130	0.8
	1304	2.6		1732	2.8
7 TH	0454	0.9	**22** FR	0224	0.6
	1554	2.5		0959	2.1
				1306	1.9
				1847	2.7
8 FR	0306	0.9	**23** SA	0258	0.5
	1120	2.1		1009	2.2
	1228	2.1		1431	1.8
	1845	2.6		1942	2.7
9 SA	0307	0.7	**24** SU	0324	0.5
	1021	2.0		1017	2.3
	1342	1.8		1513	1.6
	1932	2.8		2022	2.6
10 SU	0321	0.6	**25** MO	0345	0.6
	0941	2.1		1025	2.4
	1429	1.5		1548	1.6
	2010	3.0		2055	2.6
11 MO	0343	0.5	**26** TU	0400	0.6
	0938	2.3		1035	2.6
	1516	1.3		1621	1.5
	2049	3.1		2126	2.4
12 TU	0410	0.4	**27** WE	0412	0.7
	1002	2.6		1048	2.7
	1603	1.1		1652	1.5
	2128	3.1		2153	2.3
13 WE	0439	0.4	**28** TH	0423	0.7
	1032	2.9		1103	2.8
	1651	1.0		1722	1.5
	2209	3.0		2220	2.2
14 TH	0508	0.4	**29** FR	0429	0.7
	1108	3.1		1117	3.0
	1739	1.0		1752	1.4
	2249	2.8		2247	2.1
15 FR	0536	0.4	**30** SA	0420	0.6
	1143	3.3		1130	3.1
	1828	1.0		1822	1.4
	2329	2.5		2315	1.9

DECEMBER

	Time	m		Time	m
1 SU	0409	0.6	**16** MO	0014	1.9
	1147	3.2		0600	0.6
	1857	1.4		1258	3.5
	2346	1.8		2029	0.8
2 MO	0419	0.6	**17** TU	0058	1.7
	1207	3.2		0501	0.8
	1941	1.4		1341	3.4
				2121	0.8
3 TU	0017	1.7	**18** WE	0144	1.5
	0435	0.7		0515	0.9
	1231	3.1		1428	3.2
	2043	1.4		2218	0.9
4 WE	0046	1.5	**19** TH	0234	1.4
	0456	0.7		0530	1.0
	1301	3.0		1518	3.0
				2334	1.0
5 TH	0517	0.8	**20** FR	1609	2.7
	1354	2.8			
6 FR	0532	1.0	**21** SA	0128	0.9
	1523	2.7		1707	2.5
7 SA	0150	1.0	**22** SU	0224	0.9
	1645	2.7		1056	2.2
				1437	2.0
				1824	2.3
8 SU	0216	0.8	**23** MO	0255	0.8
	1051	2.0		1055	2.4
	1246	1.9		1541	1.9
	1815	2.7		1947	2.1
9 MO	0244	0.6	**24** TU	0316	0.8
	0953	2.1		1051	2.5
	1415	1.7		1634	1.7
	1933	2.7		2045	2.0
10 TU	0314	0.5	**25** WE	0329	0.8
	0943	2.4		1050	2.7
	1517	1.5		1719	1.5
	2029	2.6		2126	1.9
11 WE	0344	0.5	**26** TH	0340	0.8
	1004	2.7		1056	2.8
	1611	1.3		1755	1.4
	2118	2.5		2157	1.8
12 TH	0413	0.4	**27** FR	0352	0.8
	1034	3.1		1104	3.0
	1703	1.1		1822	1.3
	2204	2.4		2224	1.8
13 FR	0443	0.4	**28** SA	0403	0.8
	1107	3.3		1113	3.1
	1755	1.0		1842	1.2
	2249	2.2		2251	1.8
14 SA	0510	0.5	**29** SU	0416	0.7
	1142	3.5		1122	3.2
	1847	0.8		1857	1.1
	2332	2.0		2321	1.8
15 SU	0536	0.5	**30** MO	0428	0.6
	1219	3.6		1141	3.3
	1939	0.8		1918	1.1
				2355	1.8
			31 TU	0435	0.6
				1209	3.3
				1950	1.1

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

58100

AUSTRALIA, QUEENSLAND - BOOBY ISLAND

LAT 10° 36´ S LONG 141° 55´ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

JANUARY

	Time	m		Time	m
1 MO	0244	1.0	**16** TU	0230	0.8
	1011	3.8		0949	3.9
	1435	3.1		1440	2.9
	1909	3.5		1951	3.9
2 TU	0315	1.1	**17** WE	0307	1.0
	1031	3.8		1009	4.1
	1542	3.0		1556	2.6
	1957	3.3		2102	3.7
3 WE	0340	1.3	**18** TH	0343	1.2
	1051	3.9		1034	4.2
	1645	2.8		1701	2.2
	2054	3.1		2218	3.4
4 TH	0400	1.4	**19** FR	0420	1.6
	1110	3.9		1101	4.3
	1739	2.5		1759	1.8
	2202	2.9		2339	3.2
5 FR	0421	1.7	**20** SA	0458	2.0
	1128	4.0		1129	4.3
	1824	2.2		1854	1.5
	2320	2.8			
6 SA	0446	2.0	**21** SU	0102	3.1
	1146	4.0		0540	2.5
	1904	1.9		1154	4.3
				1945	1.2
7 SU	0045	2.7	**22** MO	0237	3.1
	0514	2.3		0630	2.9
	1205	4.1		1218	4.3
	1942	1.6		2035	1.1
8 MO	0222	2.8	**23** TU	0539	3.3
	0548	2.7		0733	3.2
	1226	4.1		1245	4.2
	2020	1.3		2125	1.0
9 TU	0529	3.0	**24** WE	1325	4.0
	0629	3.0		2221	1.0
	1252	4.1			
	2102	1.1			
10 WE	1328	4.1	**25** TH	0723	3.7
	2150	0.9		0942	3.5
				1428	3.9
				2328	1.1
11 TH	0728	3.6	**26** FR	0758	3.7
	0925	3.5		1039	3.4
	1417	4.1		1543	3.8
	2247	0.8			
12 FR	0805	3.7	**27** SA	0031	1.1
	1030	3.5		0829	3.8
	1518	4.2		1135	3.3
	2353	0.8		1645	3.8
13 SA	0839	3.8	**28** SU	0118	1.2
	1127	3.4		0855	3.7
	1624	4.2		1235	3.2
				1739	3.7
14 SU	0058	0.7	**29** MO	0155	1.2
	0907	3.8		0914	3.7
	1222	3.3		1346	3.1
	1732	4.2		1828	3.6
15 MO	0149	0.7	**30** TU	0224	1.3
	0931	3.9		0927	3.8
	1323	3.1		1450	2.9
	1840	4.1		1917	3.5
			31 WE	0245	1.4
				0941	3.8
				1540	2.7
				2011	3.3

FEBRUARY

	Time	m		Time	m
1 TH	0300	1.6	**16** FR	0315	1.8
	0955	3.9		0941	4.3
	1623	2.5		1645	1.6
	2110	3.2		2233	3.5
2 FR	0318	1.8	**17** SA	0352	2.1
	1009	4.0		1009	4.3
	1702	2.2		1735	1.3
	2213	3.1		2346	3.4
3 SA	0340	2.1	**18** SU	0432	2.5
	1025	4.1		1035	4.3
	1737	1.9		1822	1.1
	2318	3.1			
4 SU	0407	2.3	**19** MO	0059	3.3
	1042	4.2		0517	2.8
	1812	1.6		1101	4.3
				1908	1.0
5 MO	0026	3.0	**20** TU	0218	3.3
	0438	2.6		0617	3.1
	1103	4.2		1128	4.1
	1848	1.4		1954	1.1
6 TU	0144	3.1	**21** WE	0515	3.4
	0509	2.9		0724	3.3
	1127	4.2		1159	4.0
	1930	1.2		2042	1.2
7 WE	1159	4.2	**22** TH	1247	3.8
	2017	1.1		2138	1.3
8 TH	1246	4.2	**23** FR	0652	3.6
	2111	1.0		0925	3.3
				1435	3.6
				2312	1.4
9 FR	0707	3.6	**24** SA	0724	3.6
	0900	3.5		1025	3.2
	1353	4.2		1602	3.6
	2209	0.9			
10 SA	0735	3.7	**25** SU	0021	1.4
	1002	3.4		0749	3.6
	1514	4.2		1204	3.1
	2321	0.9		1704	3.6
11 SU	0801	3.7	**26** MO	0102	1.4
	1102	3.3		0803	3.6
	1637	4.2		1321	2.9
				1758	3.5
12 MO	0045	0.9	**27** TU	0133	1.5
	0820	3.8		0813	3.6
	1210	3.0		1403	2.7
	1752	4.1		1848	3.4
13 TU	0132	1.0	**28** WE	0156	1.7
	0835	3.9		0823	3.7
	1345	2.7		1442	2.4
	1902	4.0		1940	3.4
14 WE	0208	1.2	**29** TH	0213	1.8
	0852	4.0		0835	3.7
	1456	2.3		1518	2.2
	2010	3.9		2034	3.3
15 TH	0241	1.4			
	0914	4.1			
	1553	1.9			
	2121	3.7			

MARCH

	Time	m		Time	m
1 FR	0228	2.0	**16** SA	0250	2.3
	0848	3.8		0844	4.1
	1552	1.9		1620	0.9
	2127	3.3		2244	3.6
2 SA	0248	2.2	**17** SU	0331	2.5
	0904	3.9		0917	4.1
	1624	1.7		1705	0.8
	2221	3.3		2346	3.6
3 SU	0315	2.4	**18** MO	0417	2.8
	0923	4.0		0949	4.1
	1655	1.4		1748	0.8
	2315	3.3			
4 MO	0346	2.6	**19** TU	0045	3.5
	0945	4.1		0510	2.9
	1729	1.2		1021	3.9
				1832	0.9
5 TU	0012	3.3	**20** WE	0144	3.4
	0420	2.8		0614	3.0
	1011	4.1		1054	3.7
	1807	1.1		1916	1.1
6 WE	0117	3.3	**21** TH	0254	3.3
	0457	3.0		0716	3.1
	1042	4.1		1132	3.5
	1854	1.0		2003	1.3
7 TH	0235	3.3	**22** FR	0504	3.3
	0549	3.2		0815	3.1
	1124	4.1		1257	3.3
	1945	1.0		2054	1.4
8 FR	0531	3.3	**23** SA	0553	3.4
	0735	3.3		0919	3.0
	1227	4.0		1503	3.2
	2039	1.0		2207	1.6
9 SA	1354	3.9	**24** SU	0618	3.4
	2137	1.1		1157	2.8
				1619	3.2
				2345	1.7
10 SU	0633	3.5	**25** MO	0629	3.4
	0947	3.0		1237	2.5
	1536	3.9		1724	3.2
	2242	1.1			
11 MO	0649	3.6	**26** TU	0027	1.8
	1057	2.8		0639	3.4
	1701	3.9		1311	2.3
				1823	3.2
12 TU	0011	1.3	**27** WE	0058	1.9
	0704	3.7		0651	3.5
	1257	2.4		1343	2.0
	1813	3.9		1917	3.2
13 WE	0100	1.4	**28** TH	0122	2.1
	0723	3.8		0704	3.5
	1357	1.9		1415	1.7
	1923	3.8		2008	3.3
14 TH	0136	1.7	**29** FR	0143	2.3
	0746	4.0		0718	3.6
	1447	1.5		1446	1.5
	2032	3.7		2056	3.3
15 FR	0212	2.0	**30** SA	0206	2.4
	0814	4.1		0737	3.6
	1534	1.2		1517	1.3
	2140	3.7		2142	3.4
			31 SU	0232	2.5
				0758	3.7
				1548	1.1
				2228	3.4

APRIL

	Time	m		Time	m
1 MO	0302	2.7	**16** TU	0405	2.8
	0824	3.8		0913	3.6
	1619	1.0		1716	0.7
	2314	3.5			
2 TU	0335	2.8	**17** WE	0022	3.5
	0855	3.8		0503	2.8
	1654	0.9		0953	3.5
				1758	0.9
3 WE	0003	3.4	**18** TH	0109	3.4
	0413	2.9		0606	2.8
	0930	3.8		1035	3.3
	1736	0.9		1840	1.1
4 TH	0057	3.4	**19** FR	0157	3.3
	0502	3.0		0707	2.8
	1013	3.8		1134	3.0
	1824	0.9		1921	1.3
5 FR	0158	3.3	**20** SA	0247	3.3
	0619	3.0		0812	2.7
	1111	3.7		1332	2.8
	1916	0.9		2004	1.5
6 SA	0300	3.3	**21** SU	0335	3.3
	0733	2.9		1051	2.5
	1232	3.6		1509	2.8
	2010	1.0		2051	1.8
7 SU	0358	3.4	**22** MO	0413	3.3
	0838	2.7		1134	2.2
	1423	3.4		1635	2.8
	2104	1.2		2146	2.0
8 MO	0441	3.4	**23** TU	0441	3.3
	0947	2.4		1207	1.8
	1604	3.5		1751	2.9
	2201	1.5		2327	2.2
9 TU	0514	3.5	**24** WE	0503	3.3
	1158	1.9		1238	1.5
	1724	3.5		1851	3.0
	2306	1.7			
10 WE	0542	3.7	**25** TH	0012	2.4
	1254	1.5		0522	3.4
	1840	3.6		1308	1.3
				1942	3.2
11 TH	0014	2.0	**26** FR	0045	2.5
	0610	3.8		0541	3.4
	1341	1.0		1339	1.1
	1953	3.6		2028	3.3
12 FR	0102	2.3	**27** SA	0115	2.6
	0640	3.9		0603	3.4
	1425	0.7		1411	0.9
	2058	3.7		2112	3.4
13 SA	0145	2.5	**28** SU	0145	2.7
	0715	3.9		0629	3.5
	1508	0.6		1444	0.8
	2154	3.7		2152	3.5
14 SU	0229	2.6	**29** MO	0215	2.7
	0752	3.9		0700	3.5
	1551	0.5		1517	0.7
	2247	3.7		2232	3.5
15 MO	0315	2.7	**30** TU	0248	2.7
	0832	3.8		0737	3.5
	1634	0.6		1552	0.7
	2335	3.6		2311	3.5

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

58230

* TRANSMITTING GAUGE, SEE PAGE

AUSTRALIA, QUEENSLAND - BOOBY ISLAND

LAT 10° 36´ S LONG 141° 55´ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

MAY

	Time	m		Time	m
1 WE	0325	2.8	**16** TH	0456	2.6
	0820	3.6		0940	3.1
	1630	0.6		1725	0.8
	2352	3.4			
2 TH	0411	2.8	**17** FR	0030	3.4
	0910	3.5		0600	2.5
	1713	0.7		1035	2.8
				1801	1.0
3 FR	0035	3.4	**18** SA	0106	3.3
	0515	2.7		0703	2.4
	1009	3.4		1153	2.6
	1800	0.7		1836	1.3
4 SA	0121	3.4	**19** SU	0140	3.3
	0627	2.6		0820	2.2
	1124	3.2		1328	2.5
	1849	0.9		1910	1.6
5 SU	0206	3.4	**20** MO	0213	3.3
	0734	2.3		0952	1.9
	1306	3.0		1507	2.4
	1939	1.2		1947	1.9
6 MO	0250	3.4	**21** TU	0243	3.3
	0842	2.0		1039	1.6
	1456	3.0		1657	2.6
	2032	1.5		2030	2.2
7 TU	0328	3.5	**22** WE	0309	3.3
	1036	1.5		1116	1.2
	1628	3.1		1809	2.8
	2126	1.9		2128	2.5
8 WE	0402	3.5	**23** TH	0334	3.3
	1141	1.1		1150	1.0
	1803	3.2		1904	3.0
	2229	2.2		2303	2.7
9 TH	0435	3.6	**24** FR	0359	3.3
	1230	0.7		1224	0.8
	1919	3.4		1952	3.2
	2336	2.5			
10 FR	0508	3.6	**25** SA	0001	2.8
	1315	0.5		0427	3.3
	2020	3.5		1300	0.6
				2036	3.3
11 SA	0033	2.6	**26** SU	0041	2.8
	0545	3.7		0458	3.3
	1358	0.3		1337	0.6
	2112	3.6		2117	3.4
12 SU	0121	2.7	**27** MO	0117	2.8
	0626	3.6		0537	3.4
	1441	0.3		1416	0.5
	2157	3.6		2154	3.4
13 MO	0208	2.7	**28** TU	0152	2.7
	0712	3.5		0622	3.4
	1524	0.4		1455	0.5
	2239	3.6		2228	3.4
14 TU	0258	2.7	**29** WE	0230	2.7
	0800	3.4		0715	3.4
	1606	0.5		1532	0.5
	2317	3.5		2259	3.4
15 WE	0352	2.6	**30** TH	0317	2.6
	0849	3.2		0813	3.4
	1647	0.6		1611	0.5
	2354	3.4		2330	3.4
			31 FR	0416	2.5
				0919	3.2
				1652	0.6

JUNE

	Time	m		Time	m
1 SA	0002	3.4	**16** SU	0011	3.3
	0527	2.3		0649	1.9
	1032	3.0		1151	2.4
	1736	0.8		1741	1.4
2 SU	0038	3.4	**17** MO	0035	3.3
	0635	2.0		0739	1.7
	1200	2.8		1313	2.3
	1821	1.1		1809	1.8
3 MO	0114	3.5	**18** TU	0057	3.3
	0739	1.6		0827	1.4
	1341	2.7		1500	2.3
	1910	1.5		1843	2.1
4 TU	0149	3.5	**19** WE	0118	3.3
	0849	1.2		0911	1.1
	1517	2.7		1703	2.6
	2002	2.0		1931	2.4
5 WE	0223	3.5	**20** TH	0140	3.3
	1004	0.8		0953	0.9
	1716	2.9			
	2100	2.4			
6 TH	0257	3.5	**21** FR	0208	3.3
	1105	0.5		1037	0.7
	1840	3.2		1908	3.1
	2206	2.6		2204	2.9
7 FR	0334	3.5	**22** SA	0243	3.3
	1157	0.3		1127	0.6
	1939	3.3		1953	3.2
	2310	2.8		2309	2.9
8 SA	0416	3.5	**23** SU	0326	3.3
	1246	0.3		1219	0.5
	2029	3.4		2034	3.3
				2358	2.8
9 SU	0007	2.8	**24** MO	0418	3.3
	0504	3.4		1311	0.4
	1334	0.3		2110	3.3
	2112	3.5			
10 MO	0057	2.7	**25** TU	0042	2.8
	0555	3.4		0515	3.4
	1420	0.4		1358	0.4
	2149	3.4		2142	3.3
11 TU	0147	2.6	**26** WE	0126	2.7
	0648	3.3		0617	3.4
	1503	0.4		1439	0.4
	2221	3.4		2208	3.3
12 WE	0241	2.6	**27** TH	0218	2.5
	0743	3.1		0722	3.3
	1543	0.6		1515	0.4
	2251	3.4		2229	3.3
13 TH	0346	2.5	**28** FR	0323	2.4
	0838	3.0		0831	3.2
	1618	0.7		1551	0.5
	2319	3.3		2253	3.4
14 FR	0454	2.3	**29** SA	0433	2.1
	0936	2.8		0943	3.0
	1649	0.9		1628	0.8
	2346	3.3		2320	3.5
15 SA	0554	2.2	**30** SU	0537	1.7
	1038	2.6		1102	2.8
	1716	1.1		1709	1.1
				2350	3.6

JULY

	Time	m		Time	m
1 MO	0637	1.3	**16** TU	0648	1.2
	1227	2.7		1255	2.4
	1753	1.5		1711	2.0
				2343	3.4
2 TU	0019	3.6	**17** WE	0723	1.0
	0733	1.0		1432	2.4
	1356	2.6		1744	2.3
	1843	2.0			
3 WE	0048	3.6	**18** TH	0002	3.4
	0828	0.7		0758	0.8
	1550	2.7		1651	2.6
	1940	2.4		1835	2.6
4 TH	0118	3.5	**19** FR	0026	3.4
	0924	0.5		0839	0.6
	1751	3.0			
	2044	2.7			
5 FR	0154	3.5	**20** SA	0059	3.4
	1021	0.4		0926	0.5
	1855	3.2		1904	3.1
	2149	2.8		2124	2.9
6 SA	0244	3.4	**21** SU	0149	3.3
	1123	0.4		1022	0.5
	1944	3.3		1942	3.2
	2249	2.8		2224	2.9
7 SU	0344	3.3	**22** MO	0256	3.4
	1227	0.4		1139	0.5
	2024	3.3		2015	3.2
	2343	2.7		2317	2.8
8 MO	0446	3.2	**23** TU	0409	3.4
	1323	0.4		1254	0.4
	2100	3.3		2044	3.2
9 TU	0038	2.6	**24** WE	0012	2.7
	0545	3.2		0522	3.4
	1408	0.5		1342	0.4
	2129	3.3		2107	3.3
10 WE	0137	2.5	**25** TH	0116	2.5
	0642	3.1		0632	3.4
	1446	0.6		1420	0.4
	2153	3.2		2124	3.3
11 TH	0248	2.4	**26** FR	0234	2.2
	0738	3.0		0742	3.3
	1518	0.7		1453	0.6
	2213	3.3		2141	3.4
12 FR	0352	2.2	**27** SA	0340	1.9
	0835	2.8		0851	3.1
	1544	0.9		1525	0.8
	2233	3.3		2204	3.5
13 SA	0445	2.0	**28** SU	0437	1.5
	0933	2.6		1004	3.0
	1605	1.1		1601	1.2
	2252	3.3		2230	3.6
14 SU	0532	1.8	**29** MO	0531	1.1
	1035	2.5		1120	2.8
	1623	1.4		1641	1.6
	2310	3.4		2258	3.7
15 MO	0612	1.5	**30** TU	0621	0.7
	1141	2.4		1238	2.7
	1645	1.7		1727	2.0
	2327	3.4		2324	3.7
			31 WE	0711	0.5
				1403	2.7
				1821	2.4
				2350	3.6

AUGUST

	Time	m		Time	m
1 TH	0759	0.4	**16** FR	0713	0.6
	1617	2.8		2332	3.4
	1927	2.6			
2 FR	0020	3.5	**17** SA	0757	0.6
	0850	0.4			
	1800	3.0			
	2032	2.8			
3 SA	0104	3.3	**18** SU	0015	3.4
	0945	0.5		0847	0.6
	1849	3.2			
	2132	2.8			
4 SU	0219	3.2	**19** MO	0125	3.4
	1104	0.6		0943	0.5
	1928	3.2		1909	3.1
	2230	2.7		2151	2.8
5 MO	0345	3.1	**20** TU	0254	3.3
	1224	0.6		1053	0.6
	2003	3.2		1934	3.2
	2333	2.6		2250	2.6
6 TU	0454	3.1	**21** WE	0424	3.4
	1313	0.7		1231	0.6
	2031	3.2		1952	3.2
7 WE	0102	2.5	**22** TH	0010	2.4
	0553	3.0		0540	3.4
	1351	0.7		1316	0.6
	2051	3.2		2005	3.3
8 TH	0208	2.3	**23** FR	0144	2.0
	0648	3.0		0650	3.3
	1422	0.9		1351	0.8
	2105	3.2		2020	3.4
9 FR	0257	2.1	**24** SA	0241	1.6
	0743	2.8		0758	3.3
	1446	1.1		1422	1.1
	2119	3.2		2042	3.5
10 SA	0340	1.9	**25** SU	0333	1.2
	0839	2.7		0909	3.2
	1502	1.3		1455	1.4
	2133	3.3		2108	3.6
11 SU	0419	1.6	**26** MO	0422	0.8
	0936	2.6		1020	3.1
	1518	1.5		1533	1.7
	2148	3.3		2136	3.7
12 MO	0455	1.4	**27** TU	0510	0.6
	1033	2.6		1129	3.0
	1538	1.7		1616	2.1
	2204	3.4		2205	3.7
13 TU	0529	1.1	**28** WE	0557	0.4
	1132	2.6		1240	3.0
	1604	2.0		1706	2.4
	2220	3.4		2234	3.6
14 WE	0601	0.9	**29** TH	0643	0.4
	1235	2.6		1354	2.9
	1633	2.2		1809	2.6
	2239	3.4		2305	3.5
15 TH	0635	0.7	**30** FR	0730	0.4
	1349	2.7		1538	2.9
	1705	2.5		1916	2.7
	2302	3.4		2341	3.3
			31 SA	0818	0.6
				1735	3.0
				2019	2.8

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

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* TRANSMITTING GAUGE, SEE PAGE 6

AUSTRALIA, QUEENSLAND - BOOBY ISLAND

LAT 10° 36´ S LONG 141° 55´ E

TIME ZONE -1000

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

YEAR 2024

SEPTEMBER

	Time	m		Time	m
1 SU	0043	3.1	**16** MO	0813	0.7
	0913	0.7		1739	3.0
	1820	3.1		2029	2.8
	2120	2.7			
2 MO	0244	3.0	**17** TU	0125	3.2
	1049	0.9		0907	0.7
	1854	3.1		1802	3.1
	2238	2.6		2132	2.6
3 TU	0406	2.9	**18** WE	0315	3.2
	1206	0.9		1006	0.8
	1921	3.1		1816	3.2
				2249	2.3
4 WE	0043	2.4	**19** TH	0443	3.3
	0510	2.9		1120	1.0
	1250	1.0		1828	3.3
	1937	3.1			
5 TH	0124	2.2	**20** FR	0045	1.8
	0607	2.9		0557	3.3
	1322	1.2		1232	1.2
	1945	3.1		1847	3.4
6 FR	0201	1.9	**21** SA	0137	1.3
	0703	2.9		0709	3.3
	1348	1.3		1311	1.5
	1955	3.2		1910	3.5
7 SA	0235	1.7	**22** SU	0224	0.9
	0757	2.8		0820	3.3
	1407	1.5		1347	1.8
	2008	3.2		1937	3.6
8 SU	0309	1.4	**23** MO	0310	0.6
	0850	2.8		0928	3.3
	1424	1.7		1427	2.0
	2022	3.3		2008	3.7
9 MO	0342	1.2	**24** TU	0356	0.4
	0942	2.8		1031	3.3
	1445	1.9		1509	2.3
	2039	3.3		2043	3.7
10 TU	0414	1.0	**25** WE	0442	0.3
	1032	2.9		1131	3.3
	1511	2.1		1557	2.5
	2057	3.4		2119	3.6
11 WE	0446	0.8	**26** TH	0527	0.3
	1122	2.9		1228	3.2
	1540	2.3		1653	2.6
	2119	3.4		2155	3.5
12 TH	0518	0.7	**27** FR	0612	0.4
	1215	2.9		1327	3.1
	1611	2.5		1801	2.7
	2143	3.4		2235	3.3
13 FR	0553	0.7	**28** SA	0657	0.6
	1314	2.9		1432	3.1
	1647	2.6		1907	2.7
	2213	3.4		2324	3.1
14 SA	0635	0.6	**29** SU	0743	0.9
	1427	2.9		1609	3.1
	1744	2.8		2012	2.7
	2253	3.4			
15 SU	0723	0.6	**30** MO	0118	2.9
	1644	2.9		0832	1.1
	1922	2.8		1715	3.1
	2354	3.3		2308	2.5

OCTOBER

	Time	m		Time	m
1 TU	0304	2.8	**16** WE	0152	3.0
	0931	1.3		0829	1.1
	1743	3.1		1602	3.3
	2357	2.2		2131	2.1
2 WE	0420	2.8	**17** TH	0339	3.0
	1117	1.5		0923	1.4
	1757	3.1		1635	3.4
				2336	1.6
3 TH	0030	2.0	**18** FR	0503	3.1
	0529	2.8		1021	1.7
	1207	1.6		1704	3.5
	1806	3.1			
4 FR	0100	1.7	**19** SA	0028	1.1
	0631	2.8		0626	3.3
	1241	1.8		1127	2.0
	1819	3.2		1733	3.6
5 SA	0130	1.4	**20** SU	0113	0.7
	0727	2.9		0742	3.4
	1308	2.0		1227	2.3
	1833	3.2		1803	3.7
6 SU	0201	1.2	**21** MO	0157	0.4
	0817	3.0		0846	3.5
	1332	2.2		1316	2.5
	1848	3.3		1838	3.7
7 MO	0231	1.0	**22** TU	0241	0.3
	0904	3.1		0943	3.6
	1357	2.3		1401	2.6
	1906	3.3		1916	3.7
8 TU	0302	0.9	**23** WE	0326	0.2
	0949	3.1		1034	3.6
	1424	2.4		1448	2.7
	1928	3.3		1958	3.6
9 WE	0334	0.8	**24** TH	0411	0.3
	1032	3.2		1121	3.5
	1453	2.5		1540	2.7
	1953	3.4		2042	3.5
10 TH	0406	0.7	**25** FR	0456	0.5
	1114	3.2		1206	3.5
	1524	2.6		1643	2.7
	2022	3.4		2128	3.3
11 FR	0439	0.7	**26** SA	0539	0.7
	1158	3.2		1251	3.4
	1558	2.7		1754	2.7
	2055	3.4		2218	3.1
12 SA	0516	0.6	**27** SU	0620	0.9
	1245	3.2		1337	3.3
	1643	2.8		1903	2.6
	2138	3.4		2337	2.8
13 SU	0600	0.7	**28** MO	0700	1.2
	1337	3.1		1422	3.3
	1757	2.8		2039	2.5
	2235	3.3			
14 MO	0647	0.7	**29** TU	0132	2.6
	1432	3.1		0741	1.4
	1913	2.7		1504	3.3
	2359	3.1		2249	2.2
15 TU	0738	0.9	**30** WE	0307	2.6
	1521	3.2		0822	1.7
	2020	2.5		1538	3.3
				2323	1.9
			31 TH	0440	2.6
				0908	2.0
				1606	3.3
				2352	1.6

NOVEMBER

	Time	m		Time	m
1 FR	0558	2.8	**16** SA	0547	3.2
	1013	2.3		0944	2.5
	1630	3.3		1552	3.8
				2355	0.7
2 SA	0021	1.3	**17** SU	0707	3.4
	0657	3.0		1049	2.8
	1141	2.5		1627	3.9
	1650	3.4			
3 SU	0050	1.0	**18** MO	0040	0.4
	0747	3.2		0808	3.6
	1224	2.7		1153	2.9
	1710	3.4		1706	3.9
4 MO	0120	0.9	**19** TU	0125	0.3
	0831	3.3		0900	3.7
	1258	2.7		1247	3.0
	1731	3.4		1748	3.9
5 TU	0151	0.8	**20** WE	0211	0.3
	0913	3.4		0946	3.8
	1330	2.8		1337	3.0
	1755	3.4		1836	3.8
6 WE	0224	0.7	**21** TH	0257	0.4
	0952	3.5		1026	3.8
	1402	2.8		1427	2.9
	1824	3.5		1925	3.6
7 TH	0258	0.7	**22** FR	0342	0.5
	1029	3.5		1102	3.7
	1433	2.9		1525	2.9
	1857	3.5		2017	3.4
8 FR	0331	0.7	**23** SA	0423	0.7
	1104	3.5		1136	3.7
	1506	2.9		1637	2.8
	1938	3.5		2112	3.2
9 SA	0405	0.7	**24** SU	0502	0.9
	1139	3.5		1210	3.7
	1548	2.9		1752	2.7
	2027	3.5		2216	3.0
10 SU	0443	0.7	**25** MO	0536	1.2
	1214	3.5		1243	3.6
	1648	2.8		1906	2.5
	2126	3.3		2342	2.7
11 MO	0526	0.8	**26** TU	0609	1.5
	1251	3.5		1313	3.6
	1802	2.7		2044	2.2
	2244	3.1			
12 TU	0612	1.0	**27** WE	0119	2.5
	1330	3.5		0640	1.8
	1911	2.4		1342	3.6
				2145	1.9
13 WE	0025	2.9	**28** TH	0305	2.5
	0700	1.3		0713	2.2
	1409	3.6		1410	3.6
	2020	2.0		2223	1.6
14 TH	0221	2.9	**29** FR	0506	2.7
	0751	1.7		0751	2.6
	1446	3.6		1435	3.6
	2153	1.5		2257	1.3
15 FR	0358	3.0	**30** SA	1458	3.6
	0845	2.1		2329	1.1
	1519	3.7			
	2305	1.1			

DECEMBER

	Time	m		Time	m
1 SU	0713	3.2	**16** MO	0730	3.6
	1007	3.1		1023	3.3
	1523	3.6		1533	4.1
2 MO	0002	0.9	**17** TU	0007	0.5
	0758	3.4		0820	3.8
	1128	3.2		1124	3.3
	1551	3.6		1625	4.0
3 TU	0038	0.8	**18** WE	0059	0.5
	0838	3.6		0902	3.8
	1217	3.2		1219	3.3
	1623	3.7		1719	4.0
4 WE	0115	0.8	**19** TH	0151	0.6
	0915	3.7		0938	3.8
	1255	3.2		1312	3.2
	1701	3.7		1814	3.8
5 TH	0153	0.7	**20** FR	0236	0.7
	0950	3.7		1009	3.8
	1330	3.2		1410	3.1
	1743	3.7		1909	3.7
6 FR	0229	0.7	**21** SA	0317	0.8
	1021	3.7		1035	3.8
	1408	3.1		1522	3.0
	1831	3.7		2006	3.5
7 SA	0303	0.7	**22** SU	0351	1.0
	1046	3.7		1059	3.9
	1451	3.0		1639	2.8
	1926	3.6		2106	3.2
8 SU	0336	0.8	**23** MO	0421	1.2
	1108	3.7		1123	3.9
	1548	2.9		1743	2.6
	2031	3.5		2214	3.0
9 MO	0413	0.9	**24** TU	0446	1.5
	1134	3.8		1146	3.9
	1658	2.7		1840	2.3
	2146	3.3		2331	2.7
10 TU	0453	1.1	**25** WE	0508	1.8
	1202	3.9		1208	4.0
	1808	2.4		1932	2.0
	2313	3.0			
11 WE	0536	1.4	**26** TH	0057	2.6
	1233	4.0		0529	2.2
	1912	2.0		1228	4.0
				2017	1.7
12 TH	0055	2.9	**27** FR	0248	2.7
	0623	1.8		0550	2.6
	1304	4.0		1246	4.0
	2015	1.5		2058	1.4
13 FR	0234	2.9	**28** SA	0526	2.9
	0714	2.3		0603	2.9
	1335	4.1		1305	3.9
	2117	1.1		2137	1.2
14 SA	0450	3.1	**29** SU	1329	3.9
	0812	2.8		2219	1.1
	1407	4.1			
	2216	0.8			
15 SU	0629	3.4	**30** MO	0731	3.5
	0917	3.1		0911	3.4
	1446	4.1		1404	3.9
	2313	0.6		2306	1.0
			31 TU	0801	3.6
				1028	3.5
				1451	3.9
				2358	0.9

* CORRECTIONS TO CHART DATUM INCLUDED IN TABLE I
SEE CHAPTER 5

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* TRANSMITTING GAUGE, SEE PAGE 6

Notes:

Notes:

CHAPTER 4 SECONDARY PORTS - TIME DIFFERENCES AND TIDAL LEVELS

4.1 USE OF TIME DIFFERENCES AND TIDAL LEVELS

4.1.1 GENERAL

1. The standard port used as the reference for each secondary port is shown in bold capitals at the beginning of each list.
2. Secondary ports are referenced to the standard port with most similar tidal characteristics. This is generally the nearest standard port. Any exceptions are noted in the 'Remarks' column.

4.1.2 TIME DIFFERENCES

1. Mean time differences applicable to both High Water (HW) and Low Water (LW) at a secondary port are applied as a correction to the time listed for the relevant standard port. Time differences are denoted by '+' or '-'.
2. A time difference at the secondary port shown as '+' means that the HW or LW at the secondary port occurs later than at the standard port, so the time difference is added to the time listed for the standard port. A time difference at the secondary port shown as '-' requires that the time difference is subtracted from the standard port time to result in an earlier time at the secondary port.
3. The mean values of time differences may differ considerably from actual values either due to differences in the tidal model between the secondary port and the 'best-fit' standard port, or due to differences in short term meteorological effects experienced at each port.

4.1.3 TIDE LEVELS

1. Tidal levels shown in the secondary port tables are, in most instances, calculated and not observed. Only some secondary ports have data sets long enough (of at least 19 consecutive years) to allow statistical analysis of tidal levels. All other ports rely on calculations using the formulae shown at Section 1.8.
2. When observed or legislated values are advised by a relevant authority, it is noted in the Remarks column.
3. The Mean Sea Level (MSL) to Lowest Astronomical Tide (LAT) values in this chapter may differ from a legislated value because, where possible, the Australian National Tide Tables includes an estimation for the effect of long-term MSL trend.
4. Most tidal levels are rounded to the nearest decimetre whether observed, calculated or transferred. However, MSL is rounded to two decimal places.

4.1.4 ABBREVIATIONS USED IN THE REMARKS COLUMN:

- o - denotes observed values or legislated values
- d - denotes a diurnal secondary port related to a semi-diurnal standard port
- s - denotes a semi-diurnal secondary port related to a diurnal standard port.

4.1.5 CORRECTIONS TO CHART DATUM

1. Corrections to Chart Datum (CD) for standard ports within the secondary ports tables are marked Not Applicable (NA). For corrections to standard ports, refer to Chapter 5.
2. Corrections to CD for certain secondary ports are marked unknown (UNK) where insufficient data is available to determine a reliable value.

PAPUA NEW GUINEA

2024

PORT No.	PORT NAME	GEOGRAPHICAL POSITION		MEAN TIME DIFFERENCE	TIDAL LEVELS (metres, ref. to LAT)						TO CHART DATUM (M)	SOURCE	Remarks See Page page 93
					HAT	MHHW	MLHW	MSL	MHLW	MLLW			
55580	**PORT MORESBY**	**09° 29'S**	**147° 08´E**	**TZ -1000 (EST)**	**3.0**	**2.4**	**1.6**	**1.49**	**1.4**	**0.6**	**NA**	**STANDARD PORT**	
55440	DARU	09° 04´S	143° 12´E	+0148	4.0	3.3	2.1	1.94	1.8	0.6	0.0	NTF 1971 - 1972	s
55445	BOBO ISLAND	09° 06´S	143° 17´E	+0133	4.2	3.4	2.3	2.02	1.8	0.7	-0.4	HYDRO 2011 - 2012	s
55470	UMUDA ISLAND	08° 30´S	143° 47´E	+0128	4.9	3.7	2.8	2.37	1.9	1.0	0.0	HYDRO 1971	s
55480	GOARIBARI ISLAND	07° 45´S	144° 12´E	+0135	4.8	3.7	2.8	2.18	1.6	0.7	0.0	HYDRO 1954	s
55481	URAMU ISLAND	07° 40´S	144° 39´E	+0118	4.3	3.6	2.7	2.19	1.7	0.8	0.0	HYDRO 1972	s
55490	OMATI	07° 26´S	143° 57´E	+0341	6.2	4.9	4.0	3.14	2.3	1.4	0.0	HYDUK 1954	s
55510	KIKORI	07° 25´S	144° 15´E	+0256	3.5	2.8	2.0	1.64	1.3	0.5	0.0	HYDUK 1954	s
55515	KUMUL T.M.	08° 04´S	144° 34´E	+0034	4.0	3.2	2.2	1.96	1.7	0.8	0.0	NTC 1993	s
55520	PORT ROMILLY	07° 41´S	144° 49´E	+0106	4.1	3.4	2.4	2.02	1.7	0.7	0.0	HYDUK 1960	s
55538	KEREMA BAY - OFF	08° 11´S	145° 30´E	+0010	3.1	2.5	1.6	1.48	1.4	0.5	0.0	HYDRO 1993	s
55540	KEREMA	07° 58´S	145° 45´E	+0023	3.1	2.5	1.6	1.50	1.4	0.5	0.0	POL 1976	s
55571	BOERA HEAD	09° 23´S	147° 01´E	-0004	2.9	2.3	1.5	1.38	1.3	0.4	0.0	HYDRO 2010	
55572	IDIHA ISLAND	09° 24´S	146° 53´E	-0005	3.0	2.4	1.5	1.40	1.3	0.4	0.0	HYDRO 2010	
55574	REDSCAR HEAD	09° 15´S	146° 54´E	-0001	3.0	2.5	1.6	1.52	1.4	0.5	UNK	HYDRO 2011	
55575	DAUGO I. – N	09° 31´S	147° 04´E	+0001	2.9	2.3	1.5	1.41	1.3	0.5	UNK	HYDRO 2011	
55581	BOOTLESS INLET	09° 30´S	147° 16´E	-0004	2.7	2.3	1.4	1.36	1.3	0.4	-0.1	HYDRO 2017	
55582	NADEARA REEF - EAST	09° 33´S	147° 14´E	-0002	2.7	2.3	1.4	1.36	1.3	0.4	UNK	HYDRO 2017	
55583	PADANA NAHUA PASS	09° 34´S	147° 17´E	-0003	2.7	2.3	1.4	1.35	1.3	0.4	UNK	HYDRO 2017	
55596	TOVELI ENTRANCE	10° 11´S	148° 06´E	-0009	2.5	2.1	1.3	1.25	1.2	0.4	UNK	HYDRO 2017 - 2018	
55600	KALIGOLO POINT	10° 09´S	148° 16´E	-0007	2.6	2.1	1.3	1.25	1.2	0.4	0.0	HYDRO 1963	
55610	DEDELE POINT	10° 14´S	148° 44´E	-0006	2.7	2.2	1.4	1.32	1.3	0.4	0.0	SALAMAUA PNG 1975	
55615	MARGARIDA	10° 20´S	149° 20´E	-0007	3.1	2.5	1.6	1.54	1.5	0.5	0.0	PWD PNG 1973 - 1974	
55620	TURTLE BACK ISLAND	10° 24´S	149° 22´E	-0010	2.5	2.0	1.2	1.21	1.2	0.4	0.0	HYDRO 1998	
55630	DELAMI ISLAND	10° 31´S	149° 49´E	-0007	2.7	2.2	1.3	1.34	1.3	0.5	0.0	HYDRO 1997 - 1998	
55633	AVA POINT	10° 38´S	149° 48´E	+0009	2.5	2.1	1.2	1.20	1.2	0.3	0.0	HYDRO 1997	

PORT No.	PORT NAME	GEOGRAPHICAL POSITION		MEAN TIME DIFFERENCE	TIDAL LEVELS (metres, ref. to LAT)						TO CHART DATUM (M)	SOURCE	Remarks See Page page 93
					HAT	MHHW	MLHW	MSL	MHLW	MLLW			
55830	**ALOTAU**	**10° 19´S**	**150° 27´E**	**TZ -1000 (EST)**	**1.4**	**1.2**	**1.1**	**0.78**	**0.4**	**0.3**	**NA**	**STANDARD PORT**	
55650	BONARUA (BRUMER) ISLAND	10° 46´S	150° 22´E	+0028	2.3	1.9	1.2	1.15	1.1	0.4	0.0	HYDRO 1999	
55655	BAIIRI ISLAND	10° 54´S	150° 45´E	+0021	2.1	1.8	1.1	1.01	0.9	0.3	0.0	HYDRO 2001	
55659	DOINI ISLAND	10° 42´S	150° 42´E	+0022	2.1	1.8	1.2	1.06	1.0	0.4	0.0	HYDRO 1999 - 2000	
55660	SAMARAI ISLAND	10° 37´S	150° 40´E	+0023	1.6	1.4	0.9	0.76	0.6	0.1	0.0	HYDUK 1886	
55669	BENTLEY ISLAND	10° 43´S	151° 14´E	+0009	1.4	1.2	0.9	0.68	0.4	0.2	0.0	HYDRO 2001	
55670	KALOTAU BAY	10° 37´S	151° 03´E	+0022	1.3	1.1	1.0	0.65	0.3	0.2	0.0	USA Dept of Commerce 1943	
55671	KANAWEA ISLAND	10° 32´S	151° 05´E	+0005	1.2	1.1	0.9	0.60	0.3	0.1	0.0	HYDRO 1968	
55672	TEWATEWA ISLAND	10° 36´S	151° 23´E	+0003	1.3	1.2	1.0	0.68	0.4	0.2	0.0	HYDRO 2001	
55673	KEGAWAM ISLAND	10° 21´S	151° 23´E	+0011	1.3	1.1	1.0	0.67	0.3	0.3	0.0	HYDRO 2001	
55675	TONOIE ISLAND	10° 25´S	151° 13´E	+0026	1.3	1.1	1.0	0.61	0.3	0.2	0.0	HYDRO 1936	
55680	PANAIIAII ISLAND	10° 49´S	151° 50´E	+0001	1.3	1.1	1.0	0.66	0.3	0.2	UNK	HYDRO 2013	
55690	MISIMA ISLAND	10° 42´S	152° 47´E	-0002	0.9	0.8	0.7	0.45	0.2	0.1	0.0	Misima Mines Pty Ltd 1991	
55700	NIVANI ISLAND	10° 47´S	152° 23´E	-0007	1.3	1.2	1.0	0.73	0.4	0.2	UNK	HYDRO 2013	
55710	DUCHATEAU ISLANDS	11° 17´S	152° 22´E	-0037	1.5	1.3	0.9	0.69	0.5	0.1	0.0	HYDUK 1887	
55750	HUNIYE BAY	11° 16´S	153° 10´E	+0007	1.7	1.5	1.0	0.84	0.7	0.2	0.0	HYDUK 1888	
55780	CAPE DELIVERANCE	11° 24´S	154° 17´E	+0019	1.3	1.2	1.0	0.69	0.4	0.2	0.0	HYDRO 1968	
55832	MAPAMOIWA	09° 36´S	150° 26´E	+0000	1.1	1.0	1.0	0.62	0.2	0.2	0.0	HYDRO 1996	
55833	YAYA POINT	09° 36´S	150° 54´E	+0000	1.1	1.0	0.9	0.56	0.2	0.2	UNK	HYDRO 2013	
55834	BWAIOA GOMWA BAY	09° 41´S	150° 51´E	+0004	1.2	1.0	1.0	0.61	0.2	0.2	UNK	HYDRO 2013	
55835	WAIOPE ISLAND	09° 43´S	150° 54´E	+0000	1.2	1.0	1.0	0.59	0.2	0.2	UNK	HYDRO 2013	
55840	NUAKATA ISLAND	10° 17´S	151° 00´E	-0005	1.2	1.1	1.0	0.64	0.3	0.2	0.0	HYDRO 1992	
55850	EAST CAPE	10° 14´S	150° 52´E	-0116	1.0	0.9	0.9	0.55	0.2	0.2	0.0	NTF 1978	
55870	BULAVAI POINT	09° 15´S	152° 58´E	-0009	1.2	1.0	1.0	0.62	0.3	0.2	0.0	HYDRO 1968	
55871	SHARP ISLAND	09° 19´S	152° 31´E	+0005	1.1	1.0	0.9	0.59	0.3	0.2	-0.1	HYDRO 1968	
55876	BOLI POINT	08° 33´S	151° 01´E	-0004	1.3	1.1	1.0	0.64	0.3	0.2	0.0	HYDRO 2010	
55910	AIGURA POINT	10° 08´S	150° 15´E	-0018	1.3	1.1	1.0	0.70	0.4	0.3	0.0	HYDRO 1968	

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PORT No.	PORT NAME	GEOGRAPHICAL POSITION		MEAN TIME DIFFERENCE	TIDAL LEVELS (metres, ref. to LAT)						TO CHART DATUM (M)	SOURCE	Remarks See Page page 93
					HAT	MHHW	MLHW	MSL	MHLW	MLLW			
55980	**LAE**	**06° 45´S**	**147° 00´E**	**TZ -1000 (EST)**	**1.3**	**1.2**	**1.1**	**0.74**	**0.4**	**0.3**	**NA**	**STANDARD PORT**	
55938	AMUIOAN BAY	09° 06´S	149° 20´E	+0004	1.3	1.1	1.1	0.68	0.3	0.2	UNK	HYDRO 2017	
55949	DAIA POINT	08° 59´S	149° 08´E	+0003	1.3	1.1	1.0	0.67	0.3	0.2	UNK	HYDRO 2017	
55960	KANAPU ISLAND	08° 20´S	150° 07´E	+0043	1.2	1.0	0.9	0.60	0.3	0.2	0.0	HYDRO 1986	
55990	**DREGERHAFEN**	**06° 39´S**	**147° 53´E**		**1.4**	**1.2**	**1.1**	**0.77**	**0.5**	**0.3**	**NA**	**STANDARD PORT**	
55940	TUFI HARBOUR	09° 05´S	149° 19´E	+0004	1.3	1.1	1.0	0.65	0.3	0.2	0.0	NMSA 2018	
55951	ORO BAY	08° 53´S	148° 29´E	+0008	1.3	1.1	1.0	0.61	0.3	0.1	0.0	NTF 1971 - 1972	
55954	EVE SHOAL	08° 31´S	148° 25´E	+0004	1.2	1.0	1.0	0.62	0.3	0.2	0.0	HYDRO 2004	
55956	CAUTION POINT	08° 17´S	148° 12´E	-0003	1.2	1.0	1.0	0.62	0.3	0.2	0.0	HYDRO 2004	
56000	FINSCHHAFEN	06° 33´S	147° 51´E	+0000	1.3	1.1	1.0	0.64	0.3	0.2	-0.2	NMSA 2017	
56010	WASU	05° 55´S	147° 11´E	+0007	1.2	1.2	1.0	0.70	0.4	0.2	UNK	HYDRO 2017	
56020	UMBOI ISLAND	05° 42´S	148° 05´E	+0030	1.3	1.2	1.1	0.72	0.4	0.3	0.0	HYDRO 1976	
56021	AROMOT ISLAND	05° 48´S	148° 03´E	+0012	1.2	1.0	1.0	0.63	0.3	0.3	UNK	FUGRO 2018	
56150	THILENIUS HARBOUR	06° 17´S	150° 19´E	+0004	1.1	1.0	0.9	0.60	0.3	0.2	0.0	HYDRO 2007	
56030	**MADANG**	**05° 13´S**	**145° 48´E**		**1.3**	**1.3**	**1.1**	**0.87**	**0.6**	**0.4**	**NA**	**STANDARD PORT**	
56024	KEPLER POINT	05° 35´S	146° 16´E	-0003	1.2	1.1	1.0	0.66	0.4	0.2	UNK	HYDRO 2009	
56025	POMMERN BAY	05° 32´S	146° 08´E	-0008	1.2	1.2	1.0	0.70	0.4	0.2	UNK	HYDRO 2009	
56070	**WEWAK**	**03° 33´S**	**143° 38´E**		**1.6**	**1.6**	**1.2**	**1.04**	**0.9**	**0.4**	**NA**	**STANDARD PORT**	
56050	BOGIA HARBOUR	04° 18´S	144° 59´E	-0010	1.2	1.3	1.0	0.80	0.5	0.2	0.0	HYDRO 1988	
56060	SEPIK RIVER ENT.	03° 55´S	144° 37´E	+0001	1.1	1.2	0.9	0.70	0.5	0.2	0.0	HYDRO 1988	
56100	VANIMO	02° 41´S	141° 18´E	-0013	1.3	1.5	0.8	0.80	0.8	0.1	-0.1	HYDRO 1967	

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PORT No.	PORT NAME	GEOGRAPHICAL POSITION		MEAN TIME DIFFERENCE	TIDAL LEVELS (metres, ref. to LAT)						TO CHART DATUM (M)	SOURCE	Remarks See Page page 93
					HAT	MHHW	MLHW	MSL	MHLW	MLLW			
56130	**SEEADLER HARBOUR**	**02° 02´S**	**147° 22´E**	**TZ -1000 (EST)**	**1.3**	**1.3**	**1.1**	**0.79**	**0.5**	**0.3**	**NA**	**STANDARD PORT**	
56120	POINT STONE ISLAND	02° 15´S	146° 34´E	+0004	1.2	1.2	0.9	0.68	0.4	0.2	0.0	HYDRO 1994	
56122	MOENAI POINT	02° 12´S	146° 52´E	-0003	1.3	1.2	1.0	0.73	0.4	0.2	UNK	NMSA 2017	
56123	MBUKE ISLAND	02° 23´S	146° 51´E	-0002	1.2	1.2	1.0	0.71	0.4	0.2	ONK	NMSA 2017	
56134	RARA ISLAND SOUTHWEST	02° 10'S	147°16'E	+0000	1.2	1.1	1.0	0.67	0.4	0.2	UNK		
56135	HAWEI ISLAND NORTHEAST	01°57'S	147°18'E	+0000	1.2	1.1	1.0	0.67	0.4	0.2	UNK		
56200	**RABAUL**	**04° 12´S**	**152° 10´E**		**1.3**	**1.1**	**1.1**	**0.74**	**0.4**	**0.3**	**NA**	**STANDARD PORT**	
56154	CAPE JACQUINOT	05° 33´S	151° 36´E	+0007	1.2	1.0	0.9	0.59	0.3	0.2	0.0	HYDRO 2009	
56175	ELEONORA BAY	05° 33´S	149° 44´E	+0012	1.3	1.2	1.1	0.73	0.4	0.3	0.0	HYDRO 1980	
56179	WALINDI PLANTATION	05° 26´S	150° 05´E	+0017	1.2	1.1	1.0	0.65	0.3	0.2	UNK	FUGRO 2018	
56180	NUMONDO ANCHORAGE	05° 30´S	150° 06´E	+0050	1.1	1.1	1.0	0.63	0.3	0.2	UNK	HYDRO 1963	
56202	FOUL BAY	04° 10´S	152° 25´E	+0012	1.1	1.0	0.9	0.62	0.3	0.2	0.0	HYDRO 1995	
56210	KOKOPO	04° 21´S	152° 17´E	+0002	1.1	1.0	1.0	0.64	0.3	0.2	0.0	HYDRO 1947	
56240	KAVIENG	02° 35´S	150° 48´E	-0004	1.3	1.0	0.9	0.60	0.3	0.2	0.0	NTC 1989 - 1992	
56280	TAVANATANGIR HBR	04° 48´S	151° 41´E	+0002	1.2	1.1	1.0	0.64	0.3	0.2	0.0	HYDRO 2006	
56285	HENRY REID BAY	04° 59´S	151° 59´E	+0001	1.1	1.0	0.9	0.58	0.3	0.2	0.0	HYDRO 2007	
56300	AMBITLE ISLAND	04° 06´S	153° 35´E	-0003	1.2	1.0	0.8	0.56	0.3	0.1	0.0	HYDRO 1978	
56330	SORAKEN	05° 34´S	154° 43´E	-0015	1.2	1.0	0.8	0.56	0.3	0.1	0.0	HYDRO 1975	

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PORT No.	PORT NAME	GEOGRAPHICAL POSITION		MEAN TIME DIFFERENCE	TIDAL LEVELS (metres, ref. to LAT)						TO CHART DATUM (M)	SOURCE	Remarks See Page page 93
					HAT	MHHW	MLHW	MSL	MHLW	MLLW			
56340	**ANEWA BAY**	**06° 11´S**	**155° 33´E**	**TZ -1000 (EST)**	**2.0**	**1.6**	**1.0**	**1.01**	**1.0**	**0.4**	**NA**	**STANDARD PORT**	
56338	TOROKINA	06° 16´S	155° 02´E	+0054	1.1	1.0	0.9	0.57	0.3	0.2	0.0	HYDRO 2000	
56341	EVERENTA ISLAND	06° 49´S	155° 49´E	+0006	1.3	1.1	0.8	0.58	0.3	0.1	0.0	HYDRO 2000	
56350	KIETA HARBOUR	06° 13´S	155° 38´E	+0001	1.8	1.5	0.9	0.82	0.8	0.2	0.0	PWD PNG 1972	
58100	**TWIN ISLAND**	**10° 28´S**	**142° 26´E**	**TZ -1000 (AEST)**	**3.8**	**3.0**	**2.0**	**1.81**	**1.5**	**0.5**	**NA**	**STANDARD PORT**	**o**
57927	BLACK ROCKS WEST	09° 15´S	143° 43´E	-0153	3.8	3.1	2.0	1.83	1.6	0.6	UKN	HYDRO 2021	s
57930	BRAMBLE CAY	09° 08´S	143° 53´E	-0204	3.4	2.9	1.9	1.72	1.5	0.5	0.0	HYDRO 1994	s
57931	STEPHENS I - N	09° 22´S	143° 31´E	-0140	3.9	3.2	2.1	1.92	1.7	0.6	UNK	HYDRO 2021	s
57932	UNNAMED CAY	09° 22´S	143° 20´E	-0133	4.0	3.3	2.2	1.99	1.8	0.7	UNK	HYDRO 2005 - 2006	s
57936	MERRIE ENGLAND SH	09° 10´S	143° 28´E	-0140	4.0	3.2	2.1	1.84	1.6	0.5	0.0	HYDRO 2008	s
57937	MUTACOMAL REEF	09° 16´S	143° 12´E	-0108	4.1	3.3	2.1	1.90	1.7	0.5	0.0	HYDRO 2008	s
57939	BROWN REEF WEST	09° 25´S	143° 41´E	+0852	3.8	3.1	2.0	1.85	1.7	0.6	UNK	HYDRO 2021	s
57945	EAST CAY	09° 23´S	144° 13´E	-0222	4.1	3.3	2.1	1.93	1.8	0.5	0.0	HYDRO 1996	s
58029	WARRIOR REEF - WEST	09° 29´S	143° 06´E	+0013	4.3	3.3	2.2	2.02	1.8	0.7	UNK	HYDRO 2011 - 2012	
58230	**BOOBY ISLAND**	**10° 36´S**	**141° 55´E**		**4.3**	**4.2**	**2.8**	**2.48**	**2.0**	**0.6**	**NA**	**STANDARD PORT**	**o**
55420	MERAUKE	08° 29´S	140° 24´E	-0251	5.7	5.5	3.2	3.04	2.9	0.6	UNK	Netherlands 1954 - 1955	o
55430	TURU CAY	09° 49´S	141° 26´E	-0110	4.4	4.9	3.0	2.75	2.5	0.6	0.0	HYDRO 2002	

CHAPTER 5 SUPPLEMENTARY TABLE

5.1 INFORMATION ON SUPPLEMENTARY TABLE

5.1.1 CHART DATUM CORRECTION AND ZERO OF PREDICTIONS FOR STANDARD PORTS

1. All standard port predictions are computed relative to Lowest Astronomical Tide (LAT). However, some charts remain referenced to earlier datums, or earlier approximations of LAT.
2. The following table gives the correction from LAT to Chart Datum (CD) for all standard ports in this publication. The CD correction is provided for the largest scale charts depicting the port.
3. The value shown in the 'Correction to Chart Datum' column is the correction to be applied to obtain predictions above CD for the indicated chart.
4. If the 'Correction to Chart Datum' value is unknown, then the correction to be applied cannot be determined.
5. As new charts are created, or replaced by a new edition, they will be based on LAT. The number of charts requiring a CD correction for predicted tidal heights will be further reduced over time.

5.1.2 BENCHMARK CONNECTIONS

1. Please contact the Tides and Geodetic Section of the Australian Hydrographic Office (AHO) to obtain information related to the zero of predictions and the connection to shore-side benchmarks, for ports where no information has been entered against the port in the 'Zero of Predictions' column.

Email:	tides.support@defence.gov.au

TABLE I - CHART DATUM CORRECTIONS AND ZERO OF PREDICTIONS FOR STANDARD PORTS

Port	To Chart Datum				Zero of Predictions
Alotau	PG5624P1 ENC 0.0	PNG 624 NC 17 MAY 2019 0.0	PNG 508 NC 31 MAY 2019 0.0		2.545m below Alotau, SM9474, a survey plaque concreted into the Government Wharf at Alotau.
Anewa Bay	PG5683P1 ENC SUBTRACT 0.2	PNG 683 NC 06 SEP 2019 SUBTRACT 0.2	SLB 301 NE 21 FEB 2020 0.0		
Booby Island	AU411141 ENC 0.0	AUS 296 NE 10 OCT 2014 0.0	AUS 294 NE 22 FEB 2013 0.0		4.890m below C1972 (NMV/B/461), a standard AHS plaque set in concrete and marked '72 Charlie'. It is positioned 8.81m 161° M (1980) from the base of steps at north of TG hut on NW side of island.
Dregerhafen	PG5653P0 ENC 0.0	PNG 653 NC 03 MAY 2019 0.0	AUS 523 NC 18 SEP 2020 0.0	PNG 386 NC 21 AUG 2020 0.0	2.178m below Wharf Sill, benchmark.
Lae	PG5642P0 ENC 0.0	PNG 642 NC 22 MAR 2019 0.0	PNG 643 NE 05 APR 2019 0.0	PNG 523 NE 18 SEP 2020 0.0	3.077m below LAE JJ, benchmark.
Madang	PG5646P0 ENC 0.0	PNG 646 NC 22 MAR 2019 0.0	PNG 387 NC 15 MAY 2020 0.0		3.245m below MAG1, a brass rod set in concrete in the SW corner of workshop in Jais Aben resort (DESTROYED).

TABLE I - CHART DATUM CORRECTIONS AND ZERO OF PREDICTIONS FOR STANDARD PORTS

Port	To Chart Datum				Zero of Predictions
Port Moresby	PG5621P0 ENC SUBTRACT 0.1	PNG 622 NC 10 JAN 2020 SUBTRACT 0.1	PNG 621 NC 12 JUN 2020 SUBTRACT 0.1	PNG 379 NC 07 AUG 2020 0.0	4.086m below PSM16566, a brass plaque set in concrete in paving 0.9m from the SE corner of Cargo Shed No. 2 on the main wharf.
Rabaul	PG5680P1 ENC SUBTRACT 0.2	PNG 680 NC 06 SEP 2019 SUBTRACT 0.2	PNG 545 NC 07 FEB 2020 0.0	PNG 554 NC 20 MAR 2020 0.0	2.851m below RL303, a brass plate with pin on the northeast corner of old copra shed north of Wreck Wharf.
	PNG 397 NC 05 FEB 2021 0.0				
Seeadler Harbour	PG403147 ENC 0.0	PNG 662 NC 13 NOV 2020 0.0	PNG 391 NC 19 FEB 2021 0.0		4.581m below PNG14, benchmark.
Twin Island	AU411142 ENC 0.0	AUS 293 NE 10 OCT 2014 0.0			2.990m below NMV/B/463, a copper plug at NE end of sandy shore on NW side of western half of Twin Island.
Wewak	PG5651P1 ENC 0.0	PNG 651 NC 21 AUG 2020 0.0	PNG 389 NC 11 DEC 2020 0.0		3.606m below WWK3, a stainless steel rod 2.5cm in diameter set in concrete on corner of wharf. 10.58m below BHP B.M. at northern end of Forge Plant Shed.

Notes:

CHAPTER 6 ANNEX

6.1 SYMBOLS USED ON PAPER NAUTICAL CHARTS

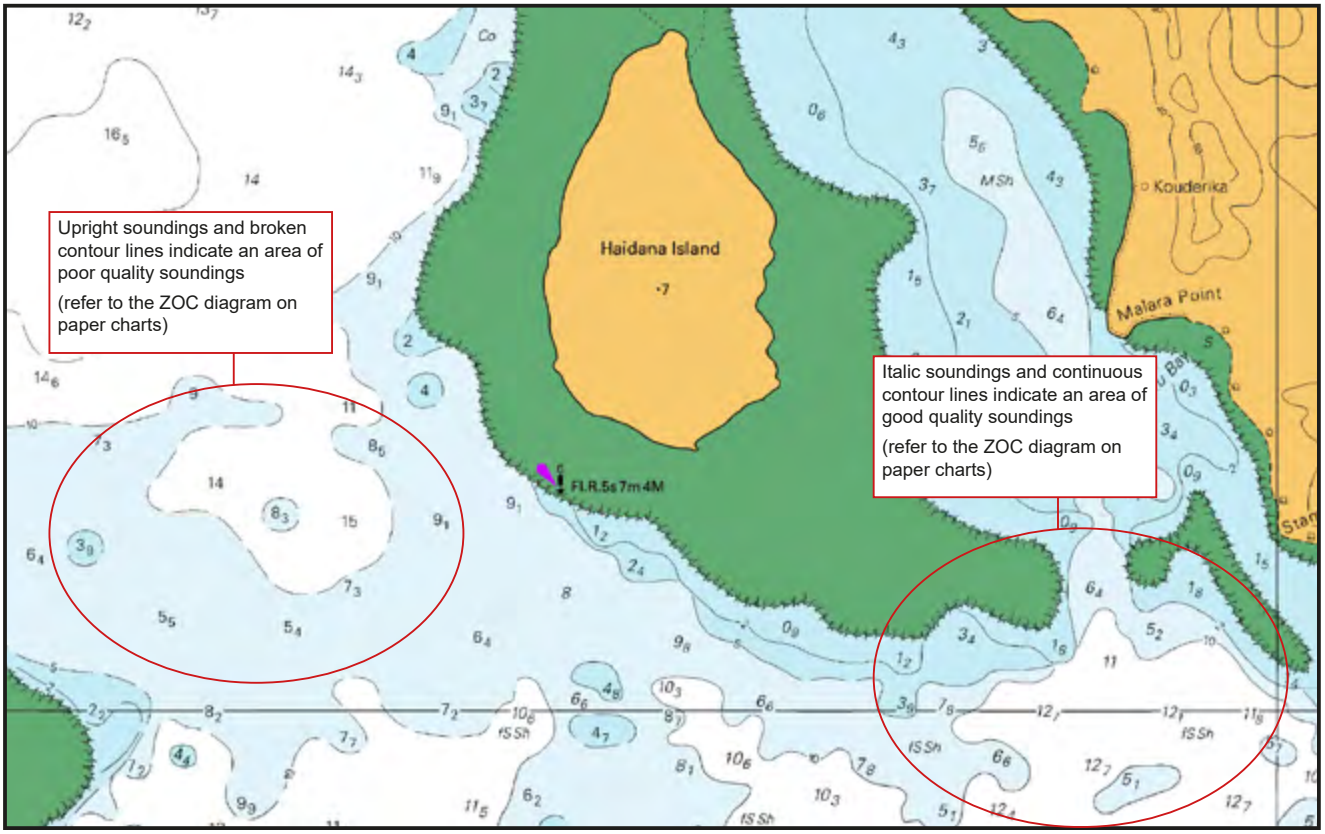
1. The 'International Symbols, Abbreviations and Terms Used on Charts' guide, known as INT1, is the international reference for most symbols and abbreviations that are used on nautical charts. It is published by the International Hydrographic Organization (IHO). The following tables list additional symbols and abbreviations used on Australian Hydrographic Office (AHO) published nautical charts that are not included in the INT1:

INT1 Reference	Description	Symbol
J21	Approximate Rock Reef	
J21	Rock Symbol	
J22	Approximate Coral Reef	
J22	Areas Considered to be Coral Reef	
J22	Areas of Possible Shoaling	
J22	Coral Pinnacle	
M	Preferred Route	
M 28.2	Two-way Route Direction Arrow	
U3	Visitors' Mooring	
N	Ship Reporting System	

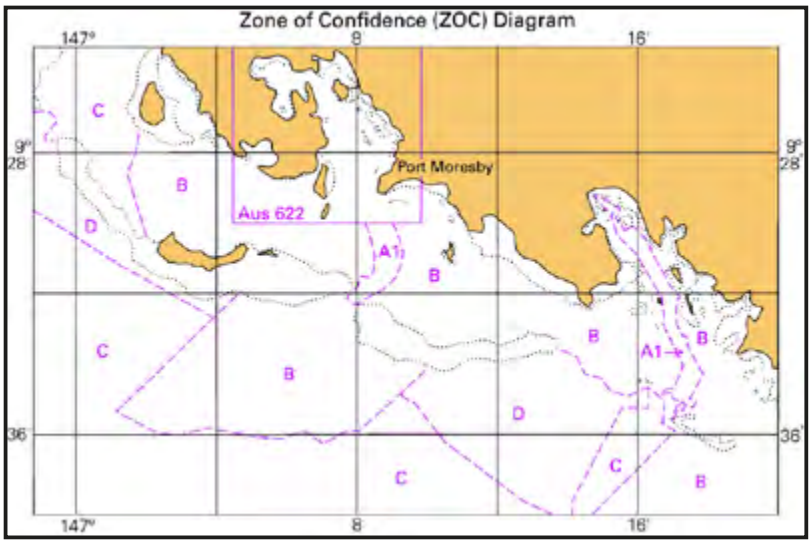
2. The following maritime boundaries have been adopted into NP5011. Their depiction on Australian Paper Nautical Charts is shown below:

NP5011 Reference	Description	Symbol
N22	Particularly Sensitive Sea Area	
N22	Great Barrier Reef Marine Park	
N22	Environmentally Sensitive Sea Area	
N	Designated Shipping Area	

Common Survey Accuracy Indicators



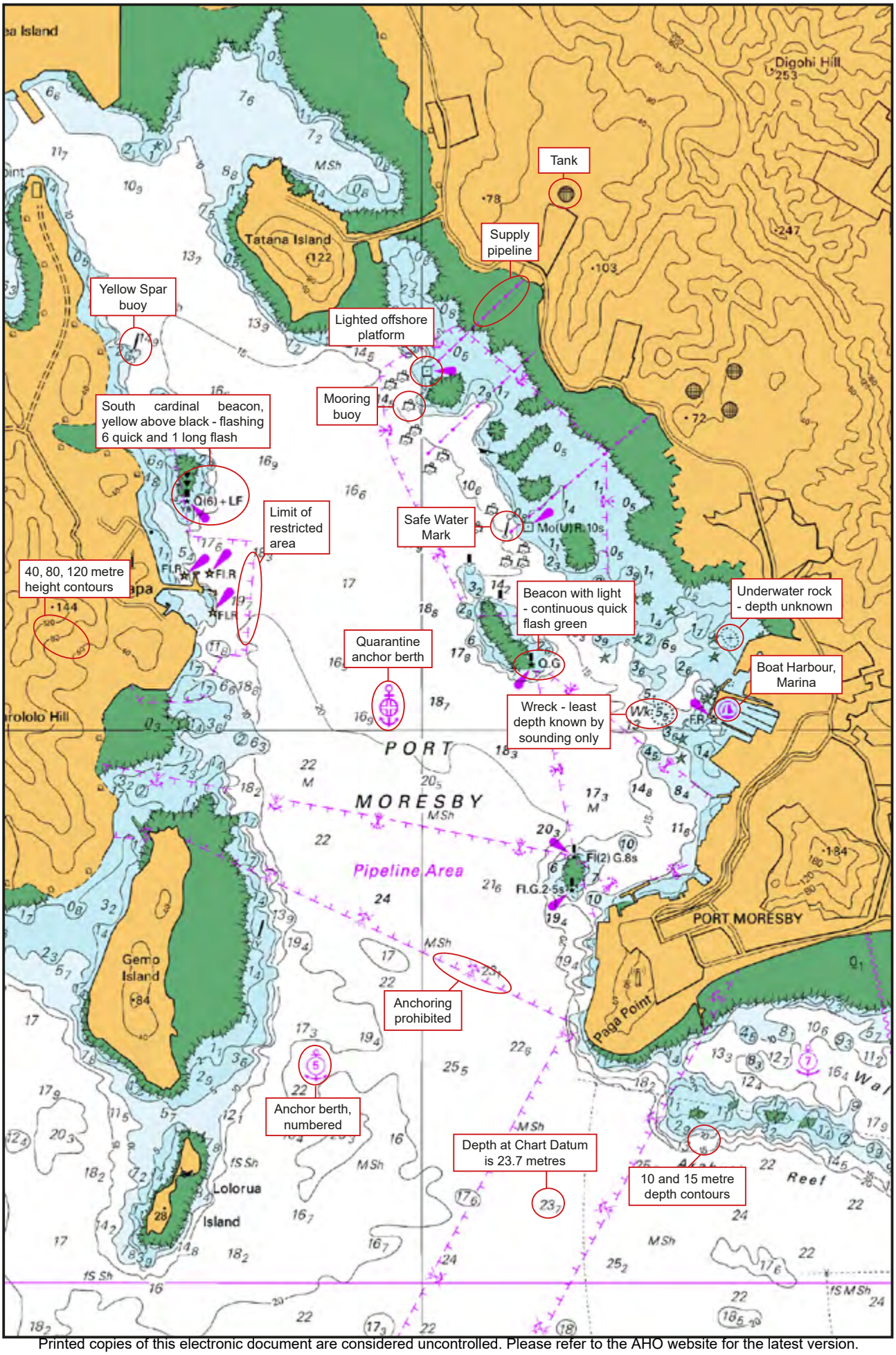
ZOC diagram and ZOC categories from paper chart



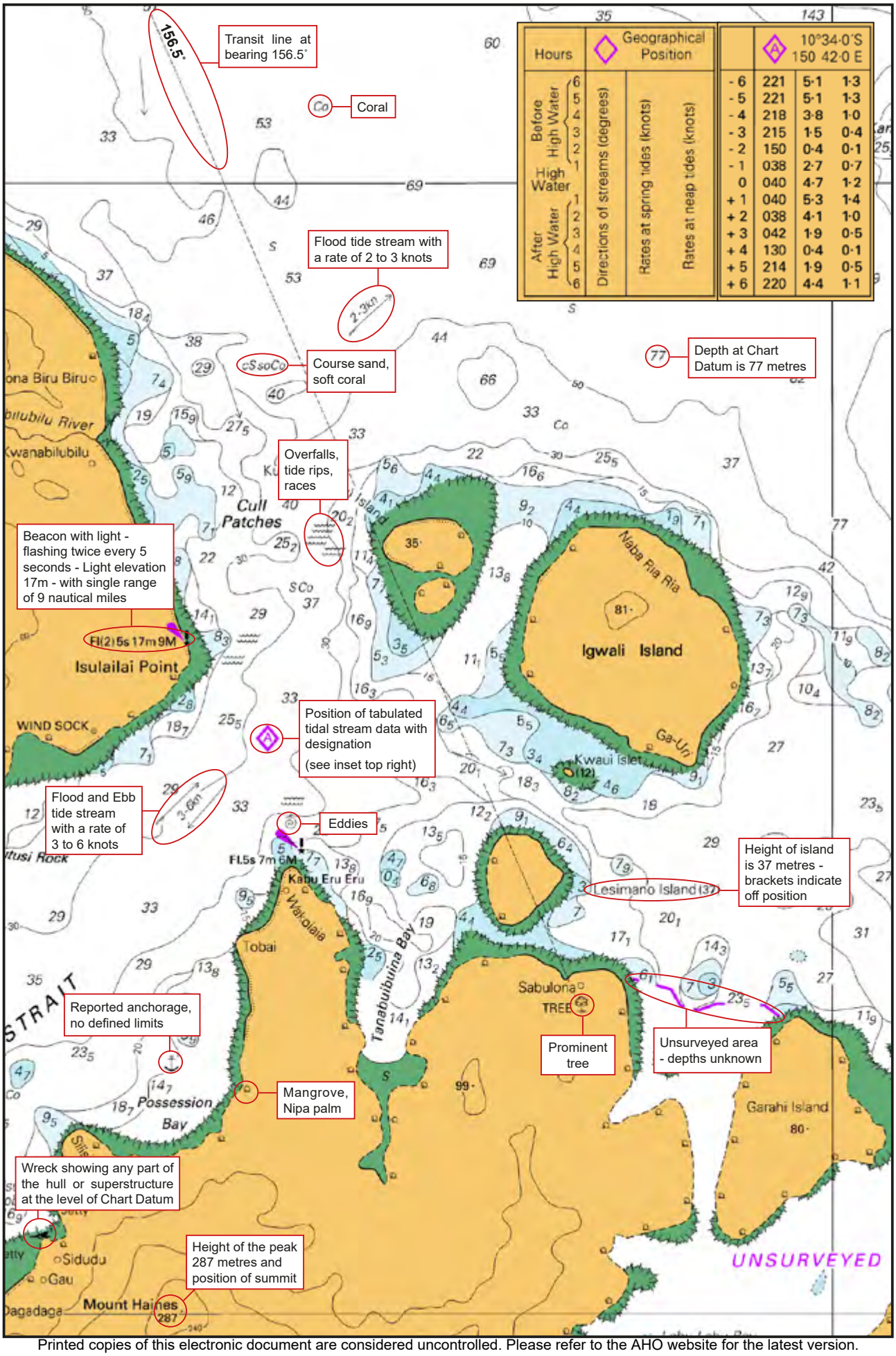
ZOC CATEGORIES
(For details see Mariners Handbook for Australian Waters AHP 20)

ZOC	POSITION ACCURACY	DEPTH ACCURACY	SEAFLOOR COVERAGE
A1	±5m + 5% depth	=0·50 + 1%d	Significant seafloor features detected.
A2	±20m	=1·00 + 2%d	Significant seafloor features detected.
B	±50m	=1·00 + 2%d	Uncharted features hazardous to surface navigation are not expected but may exist.
C	±500m	=2·00 + 5%d	Depth anomalies may be expected.
D	Worse than ZOC C	Worse than ZOC C	Large depth anomalies may be expected.
U	Unassessed – The quality of the bathymetric data has yet to be assessed.		

Common Chart Symbols - Explanations



Common Chart Symbols - Explanations



Notes:

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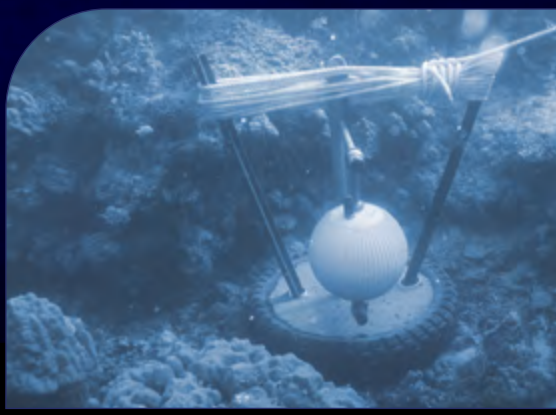
(Standard ports in capital letters)

HOW TO REPORT A CHANGE NEEDED ON A CHART OR NAUTICAL PUBLICATION

Report to the National Maritime Safety Authority (NMSA) any changes needed to a paper chart or nautical publication and we can arrange updates to keep everyone safe.

Mariners are requested to notify NMSA as soon as possible when you encounter:

- New or suspected dangers to navigation discovered
- Changes observed in aids to navigation (lights, buoys and beacons)
- Observations that may improve safety in poorly charted waters
- Safe anchorages not charted
- Corrections to publications where necessary



To report any new information, complete a Hydrographic Note Form and send via email to hydro@nmsa.gov.pg or by fax (675) 321 0873.

Download the Hydrographic Note Form from the following link: https://nmsa.gov.pg/navigation/

NMSA ORGANISATIONAL STRUCTURE

GENERAL MANAGER / CEO

MARITIME OPERATIONS

- Ship Surveys & Inspection
- Marine Rescue Coordination
- Marine Environment Protection
- Hydrography
- Aids to Navigation
- Maritime Domain Awareness

MARITIME ADMINISTRATION

- Ship Registration
- Seafarer Qualification
- Pilotage Administration
- Standards & Compliance
- Community Development

CORPORATE SERVICES

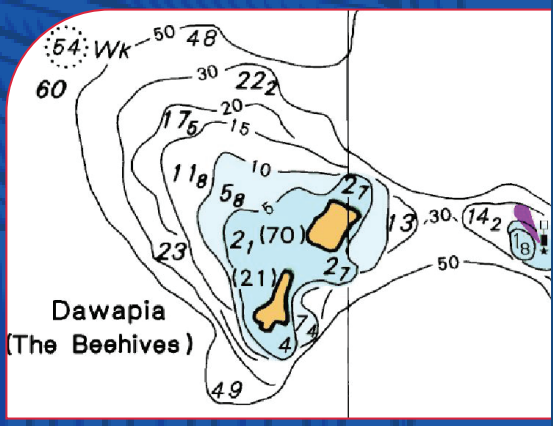
- Finance & Admin
- Information & Communication Technology
- Human Resource
- Corporate Strategy/ Quality Assurance

WHERE TO BUY NAVIGATIONAL CHARTS FOR
PAPUA NEW GUINEA WATERS

NATIONAL MARITIME SAFETY AUTHORITY

Level 2, Defens Haus
Corner of Champion Parade
& Hunter Street
Downtown (CBD)
Port Moresby, NCD

Email: hydro@nmsa.gov.pg
Phone: (675) 321 3033



IN CASE OF EMERGENCY

Maritime Rescue Coordination Centre (manned 24/7)

Phone:
(675) 7351 7017 /321 3033
Email:
pngmrcc@nmsa.gov.pg