

Metadata for Tidal Data Exchange

Station Name

Port Vila, Vanuatu

Date of Supply

Monday, 15 September 2025

| Identification | | |
|---|---|--------|
| Station Number | BoM=200857 ATT=57320 WMO=91559 | |
| Name | Port Vila, Vanuatu | |
| Latitude and Estimated Positional Uncertainty | -17.7569 | +/- 3m |
| Longitude and Estimated Positional Uncertainty | 168.3002 | +/- 3m |
| Map Name | N/A | |
| Map Number | N/A | |
| Map Grid Northing | N/A | |
| Map Grid Easting | N/A | |
| Type of Readings | | |
| Heights | Observations | |
| Progress * | See comments section. | |
| Update Frequency * | Real Time | |
| Available Format Type * | DIGITAL, text | |
| Measurement Units | | |
| Tidal Heights | metres | |
| Reference Frame | | |
| Time Zone | UTC | |
| Vertical Reference Frame | Tide Gauge Zero (m) | |
| TGBM Name/Number | VAN3 | |
| TGBM Elevation relative to the vertical reference | 23.471 m TGZ (2012) | |
| Estimated Positional Uncertainty | +/- 2mm | |
| Horizontal Reference Frame Direction of Stream Readings Depth of Stream Readings (relative to Vertical Reference Frame) Estimated Positional Uncertainty | World Geodetic System 1984 (WGS84) | |
| Search Words * | Marine, Oceanography, Water, Port Vila, Vanuatu | |
| Data Owner Details | | |
| Name | Bureau of Meteorology | |
| Postal Address | GPO Box 1289, Melbourne VIC 3001 | |
| Street Address | 700 Collins Street, Docklands, VIC 3008 | |
| Telephone | | |
| Facsimile | | |
| Email | tides@bom.gov.au | |
| Internet | www.bom.gov.au | |
| Contact Officer Details | | |
| Name | Marine and Antarctic, Environmental Prediction Services | |
| Position | Tidal Services | |
| Telephone | | |
| Email | tides@bom.gov.au | |
| Data Custodian Details | | |
| Name | Bureau of Meteorology | |
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| Email | tides@bom.gov.au |
| Internet | www.bom.gov.au |
| Contact Officer Details | |
| Name | Marine and Antarctic, Environmental Prediction Services |
| Position | Tidal Services |
| Telephone | |
| Email | tides@bom.gov.au |
| Details of the Readings Provided Herewith | |
| Date of readings supplied | |
| From | 1/15/1993 |
| To | Current |
| The time interval between readings (If the readings are for high & low water then enter "Zero") | 1-minute (average of 60, 1-second samples) 6-minutes (weighted average of 4, 1-minute readings) Hourly (filtered with a cut-off of 2 hours) |
| Are the readings averaged or filtered | See above. 1-minute samples are logged at the end of each minute, 6-minute centred on 0.1-hour increments |
| Are there any access constraints (such as commercial-in-confidence or constraint on the use or distribution to third parties). | No |
| Objective Quality Assessment of Tidal Observations (Height or Stream) | |
| Instrument | |
| Type Model | Digital data logger Sutron 9000 (1993-2012)/Telmet 320 RTU (2012-current) |
| Sensor | |
| Type Model | Acoustic-in-air sensor Aquatrak® Transducer |
| Frequency of System Calibrations Field calibration and Laboratory calibration | every 2 years every 2 years |
| Frequency of Water Level Checks | |
| Estimate of the Precision of the Water Level Checks Time (Std Dev in Minutes) Height (Std Dev in metres) | 1mm +/- |
| System Resolution | |
| Estimated Local Uncertainty | |
| Status of the Readings | |
| Description of the validation process including a statement detailing how: 1. The instrumental biases were treated 2. Outliers were selected and dealt with 3. Breaks in the record were dealt with | Standard deviations Reported Recovered where possible |
| Date of Validation | Checked each month, for previous month |
| Name of Person certifying the validation | Tidal Services |
| Details required with the supply of tidal constituent constants | |
| All of the details required above | |
| The name and version of the software used to calculate the constants | Tans |

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| The tidal constituent model used (particularly noting the treatment of the constituents Sa and Ssa) and specifying any related (inferred) constituent constants | Doodson's method |
| The date span used to prepare the constituent constants | 1993-2023 (for 2026) |
| The reference time zone for the constituents | Local (-1100) |
| The vertical datum to which the constituents apply | LAT, which is TGZ. |
| A precision estimate of predictions based on the constituent constants (for example, standard deviation of the analysis residuals) | Standard Deviation is 0.0728 |
| Additional details required with the supply of tidal predictions | |
| All of the details required above | |
| A statement describing the tidal prediction process used | Doodson's method |
| The name and version of the software used to calculate the predictions | Tipp5 |
| A list of the constituent constants used or if the list is not provided, the donor agency's identifier of the list | Standard 112 Constituent list |

Comments on data by Port Authority

- Pacific Sea Level and Geodetic Monitoring (PSLGM)
- Climate and Ocean Support Program for the Pacific (COSPPac)