

## Metadata for Tidal Data Exchange

**Station Name**            **Cook Islands**

Date of Supply            Tuesday, 7 December 2010

<b>Identification</b>	
<b>Station Number</b>	BoM=200855 ATT=6598 WMO=91844
<b>Name</b>	Cook Islands
<b>Latitude and Estimated Positional Uncertainty</b>	-21.2048                      +/- 3m
<b>Longitude and Estimated Positional Uncertainty</b>	-159.7853                    +/- 3m
<b>Map Name</b>	
<b>Map Number</b>	
<b>Map Grid Northing</b>	
<b>Map Grid Easting</b>	
<b>Type of Readings</b>	
Heights Streams Streams Constituent constants (Delete those not applicable)	Observations
<b>Progress *</b>	
<b>Update Frequency *</b>	Real Time
<b>Available Format Type *</b>	DIGITAL, text
<b>Measurement Units</b>	
Tidal Heights Tidal Streams (Delete those not applicable)	metres
<b>Reference Frame</b>	
Time Zone Vertical Reference Frame TGBM Name/Number TGBM Elevation relative to the vertical reference Estimated Positional Uncertainty  Horizontal Reference Frame Direction of Stream Readings Depth of Stream Readings (relative to Vertical Reference Frame) Estimated Positional Uncertainty	UTC MSL +/- 2mm Geodetic Datum of Aust (GDA94)  +/-
<b>Search Words *</b>	Marine, Oceanography, Water, Cook Islands
<b>Data Owner Details</b>	
Name	National Tidal Centre
Postal Address	PO Box 421, Kent Town, SA 5071
Street Address	25 College Road, SA 5071
Telephone	08 8366 2730
Facsimile	08 8366 2651
Email	<a href="mailto:ntc@bom.gov.au">ntc@bom.gov.au</a>
Internet	<a href="http://www.bom.gov.au/oceanography">www.bom.gov.au/oceanography</a>
<b>Contact Officer Details</b>	
Name	Paul Davill
Position	Data Manager
Telephone	08 8366 2730
Email	<a href="mailto:ntc@bom.gov.au">ntc@bom.gov.au</a>
<b>Data Custodian Details</b>	

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Name	National Tidal Centre
Postal Address	PO Box 421, Kent Town, SA 5071
Street Address	25 College Road, SA 5071
Telephone	08 8366 2730
Facsimile	08 8366 2651
Email	<a href="mailto:ntc@bom.gov.au">ntc@bom.gov.au</a>
Internet	<a href="http://www.bom.gov.au/oceanography">www.bom.gov.au/oceanography</a>
<b>Contact Officer Details</b>	
Name	Paul Davill
Position	Data Manager
Telephone	08 8366 2730
Email	<a href="mailto:ntc@bom.gov.au">ntc@bom.gov.au</a>
<b>Details of the Readings Provided Herewith</b>	
Date of readings supplied	
From	Feb-93
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
<b>Objective Quality Assessment of Tidal Observations (Height or Stream)</b>	
<b>Instrument</b>	
Type	Sutron 9000
Make	
Model	
<b>Sensor</b>	
Type	Acoustic-in-air sensor
Make	Aquatrak® Transducer
Model	Aquatrak NG XCR
Mode of operation	RS-232
<b>Frequency of System Calibrations</b>	
Field calibration and	every 18 months
Laboratory calibration	every 18 months
<b>Frequency of Water Level Checks</b>	
<b>Estimate of the Precision of the Water Level Checks</b>	
Time (Std Dev in Minutes)	1mm +/-
Height (Std Dev in metres)	
<b>System Resolution</b>	
<b>Estimated Local Uncertainty</b>	
<b>Status of the Readings</b>	
<b>Description of the validation process including a statement detailing how:-</b>	
1. The instrumental biases were treated	Standard deviations
2. Outliers were selected and dealt with	Reported
3. Breaks in the record were dealt with	Recovered where possible
<b>Date of Validation</b>	Checked each month, for previous month
<b>Name of Person certifying the validation</b>	NTC Data Analysis Department

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<b>Details required with the supply of tidal constituent constants</b>	
All of the details required above	
The name and version of the software used to calculate the constants	TANS
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	1993-2007 (for 2010)
The reference time zone for the constituents	Local (+1000)
The vertical datum to which the constituents apply	4.232m below BM18
A precision estimate of predictions based on the constituent constants (for example, standard deviation of the analysis residuals)	Standard Deviation is 0.073
<b>Additional details required with the supply of tidal predictions</b>	
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	Tipp4
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

- South Pacific Sea Level Climate Monitoring Program (SPSLCMP)