

Water Level Station, Systems, Data, Product Specifications Template Version 3.0*

The following is a select list of criteria that can be used to describe water level station specifications including station, system, data, and product parameters. It is intended to form the basis for establishing an XML schema that will lead to virtual integration of water level station information and facilitate development and implementation of client applications related to tsunami detection and warning and that can be used by tsunami warning system managers and disaster managers.

Required criteria are shaded. Examples of accompanying data are shown in **grey**, with *italics* denoting data that is limited to a set of predefined terms.

STATION PARAMETERS

Unique Station ID (global ID) SXXX03 (WMO header)

Station Operator ID (local ID) 1612340
33602066 (DCP ID)

Station Name Honolulu HI
hono

Country USA (ISO 3166 Alpha 3 Country Codes)

Region/Ocean Pacific, Indian, Atlantic, Caribbean, Mediterranean

Station Location
Lat 21.3070
Long -157.8670
Horizontal Datum NAD83

Station Operational Status active, down for servicing, pending, inactive

Metadata Yes/No
 Last Update DD:MM:YY

Station Operator (Agency, Institution, Organization)
 NOS, UHSLC, PTWC, WC/ATWC, JMA, NTF, CPPT, SHOW, RHM...

Operational Point of Contact (soPOC)
 Individual name
 Phone ### # ##
 Email name@place

SYSTEM PARAMETERS

Sensor (more than one is possible)	<i>primary, secondary...</i>
Type (model)	<i>BWL, PWL...</i>
Manufacturer (make)	...
Sample Interval/Sample rate (minutes)	1
Measurement Units	<i>M</i>
Vertical (sea level) Datum	NGVD29
Filters	mechanical, damped, analogue, digital...
Siting	harbour, open ocean, river mouth, etc...
Quality Rating	good, adequate, poor
Last Maintenance	DD:MM:YY
Last Calibration	DD:MM:YY

System/DCP (more than one is possible)	<i>primary, secondary...</i>
Type (model)	<i>Sutron 9000, Sutron 8200.....</i>
Manufacturer (make)	<i>Sutron...</i>
Software Version #	
Transmission Interval (minutes)	6
Number of samples per message	6
Transmission Start Time	0
Transmission End Time	6
or first and last minute of the hour when station transmits data	
Transmission Starting Line Number	0,1,2,3,4...
or number of non-sample fields that precede the actual data in the transmission...	
Transmission Order	<i>Chronological (1) or Reverse-chronological (-1)</i>
Harmonic Constants	<i>yes (1) or no (0)</i>
Length (seconds)	60
Size (bytes)	2
Storage (days)	30

Data Retrieval	<i>satellite telemetry, telephone modem, other</i>
Satellite	<i>GOESS9, JMA/GMS, MeteoSat...</i>
Channel	Regional channel 43 (R43)
Header	RJTD SWIO40
PID	0650018E
Address (Hexadecimal)	0650018E
Address (Binary)	000 001100101 000000000 0011000111
Band Width (GHz)	1.6

DATA PARAMETERS

Real Time and Near-Real Time Data Parameters

- Message Number
- Message Year
- Message Month
- Message Day
- Message Hour
- Message Minute

Sample Interval/Sample rate (minutes)	1
Number of samples	6

Data Format *binary, text, openDAP...*

Data Archiving *Yes/No*
 Start Date *DD:MM:YY*
 End Date *DD:MM:YY*

Data QA/QC *GLOSS Level 0*

Data Documentation *Yes/No*

PRODUCT PARAMETERS

Product Type *raw time series...*

Distribution Mode *Internet, Telefax, ...*

Storage/Server(s) Location *URL, phone number....*

** This document has been revised to incorporate water level station specifications required to support the NOAA/PTWC’s “Tide Tool” application. It has also been reviewed for consistency with the IOTWS/WG2 Message Formats Content, OCEANSites and SENSORXML documents. Note that the IOTWS/WG2 Message Formats Content document contains additional criteria pertaining to real-time data stream/message information elements and the OCEANSites reference additional optional criteria pertaining to archived data elements that are not included here.*