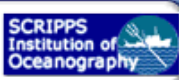


**The Coastal Data Information Program**
Integrative Oceanography Division

**SCRIPPS**
Institution of
Oceanography

**DBW**

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LATEST NEWS: Data updates will be affected by a planned power outage Wednesday 20 March 7am - 10am

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CDIP Quality Control Measures

The tests applied are determined by data/processing type, as summarized in the table below. Note that CDIP's time series products are for the most part unedited; other than checking for gaps in the data and incorrect times, the times series values are not quality-controlled. It is only when the time series are used for spectral and parameter processing that they are submitted to CDIP's full set of quality control routines.

- **AR** = Directional Array of Pressure Sensors
- **BS** = Basin Energy Processing, Pressure Sensor
- **DW** = Datowell Directional Buoy
- **NB** = Non-directional Buoy
- **PR** = Single Point Pressure Sensor
- **SG** = Surge Processing, Pressure Sensor

TIME SERIES VALUES

TEST: description (click name for more details)	AR	BS	DW	NB	PR	SG
GAP TEST: edit or discard time series with missing values.	✓	✓		✓	✓	✓
DW STATUS/TRANSMISSION BYTE: discard imperfectly received data.			✓			
MAX WAVE HEIGHT: check wave height against max in archive.	✓	✓		✓	✓	✓
FLAT EPISODES TEST: test if time series is changing too slowly.	✓			✓	✓	
SPIKE EDIT: replace spikes with average of point and previous.	✓	✓		✓	✓	✓
MAX/MIN VALUE TEST: for water column, check if values are sensible	✓				✓	
MEAN SHIFT TEST: check for a shift in the mean in the series.	✓	✓		✓	✓	✓
EQUAL PEAKS TEST: check for successive peaks with the same value.	✓				✓	✓
ACCELERATION TEST: check if acceleration is greater than 1/3 g	✓	✓			✓	✓
MEAN CROSSING TEST: check if there are too few mean crossings.	✓			✓	✓	
PERIOD DISTRIBUTION TEST: check for excessive long-period waves.	✓			✓	✓	
UNCORRECTED ENERGY COMPARISON: compare time series variance.	✓					
DEPTH COMPARISON: compare time series means.	✓					
SERIES COMPARISON: check correlation of time series.	✓					
CORRECTED ENERGY COMPARISON: compare depth-corrected variance.	✓					

SPECTRAL VALUES

TEST: description (click name for more details)	AR	BS	DW	NB	PR	SG
INCIDENT WAVE TEST: check that directions are incident to shore.	✓					
DW STATUS/TRANSMISSION BYTE: discard imperfectly transmitted data.			✓			
BAND DIRECTION MAX/MIN: check Dmean for each band.			✓			
DW CHECK FACTORS: issue warning for bad check factors.			✓			

	SUMMARY VALUE MAX/MIN: reject Hs, Tp values outside limits.	
	PARAMETER VALUES	
	TEST: description (click name for more details)	AR BS DW NB PR SG
	SPIKE TEST: check for abrupt changes in values between records.	     
	RANGE TEST: apply max/min tests to all parameters.	     
	CONSECUTIVE VALUE TEST: check for excessively constant values.	     
	Dp SPREAD TEST: check if Dp values are too spread out.	 
	Dp RANDOM TEST: check if Dp values are too variable and random.	 
	VISUAL INSPECTION: review monthly Hs, Tp, Dp plots.	     

CDIP's major funding contributors are the [US Army Corps of Engineers](#)
and the [California Department of Boating and Waterways](#).



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