

## **Deployment 51406\_1013**

(NDBC 51406 - Central South Pacific - 1040 NM NNE of Pitcairn Island)

### **Location**

Latitude: -8.48

Longitude: -125.027

Depth: 4450 m

Ocean region: 2.3 - Tropical Pacific Ocean

### **Time Span**

Start Date: 2010-04-18

End Date: 2013-02-19

### **Notes**

Data downloaded from [http://www.ndbc.noaa.gov/historical\\_data.shtml](http://www.ndbc.noaa.gov/historical_data.shtml)

Possible effects of an earthquake off the coast of Honshu can be seen in data for 11th to 15th March 2011.

A timing error of ~15 minutes appears to have arisen on 01/07/10 at 06:15. All time stamps from that point onwards have been increased by 15 minutes.

For tsunameter data from the NDBC (largely from the Deep-Ocean and Reporting of Tsunamis network), information regarding deployment and recovery dates is limited. Therefore, annual files of quality controlled data are initially concatenated for each station and plotted in order to identify the start and end times of each deployment. The data are segmented into individual deployment time series, so the deployment and recovery dates are assumed dates.

Raw NDBC data have varying sampling frequencies depending upon the operating mode (i.e. whether there is a tsunami alert). Standard operating mode (1) uses 15 minute spot values, mode 2 data consists of 1 min averages of 4X15 sec spot values and mode 3 is 15 second sampling. Mode 3 data were sub-sampled to the frequency of mode 1, but mode 2 data were not compatible and were treated as missing.

Raw pressures were obtained in metres from NDBC but had been converted from psia using a conversion factor of 0.67. The true conversion should have used 0.68947573, so to convert to mb, we multiplied by  $102.9 = 0.68947573 / 0.67 * 100$ .

This station was known as D125 until 13th May 2004 and 46406 from 13th May 2004 until 5th September 2006 when it became station 51406. The station was decommissioned on 28th March 2013

An offset of 455 bar was removed from the raw pressure data.

Latitudes, longitudes and depths specific to this deployment were not available, so they are taken to be those shown for the latest deployment shown on webpage [www.ndbc.noaa.gov/station\\_page.php?station=51406](http://www.ndbc.noaa.gov/station_page.php?station=51406) as at 15/08/2014.

### **Channels**

**51406\_1013 (Preferred Channel)**

Parameter: pressure

**Supplier****Address**

NOAA National Data Buoy Center

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Stennis Space Center, MS 39529

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