

## **Deployment 51426\_0810**

(NDBC 51426 - South East Tonga - 400 NM SE of Tonga)

### **Location**

Latitude: -23.301

Longitude: -168.291

Depth: 5659 m

Ocean region: 2.3 - Tropical Pacific Ocean

### **Time Span**

Start Date: 2008-02-11

End Date: 2010-06-29

### **Notes**

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

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  $102.9 = 0.68947573/0.67*100$ .

An offset of 580 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=51426](http://www.ndbc.noaa.gov/station_page.php?station=51426) as at 21/11/2014.

Data at the start of the record (11/02/08-05/03/08) were flagged as suspect due to (a) an unexplained datum shift and (b) a large upward drift which could not be eradicated by fitting a linear plus exponential fit.

### **Channels**

#### **51426\_0810 (Preferred Channel)**

Parameter: pressure

## **Supplier**

### **Address**

NOAA National Data Buoy Center  
Building 3205  
Stennis Space Center, MS 39529  
228-688-2805  
USA