

## **Deployment 56003\_0911**

(NDBC 56003 - Indian Ocean 2 - 630km NNE of Dampier)

### **Location**

Latitude: -15.023

Longitude: 117.942

Depth: 5664 m

Ocean region: 3.1 - Indian Ocean (East)

### **Time Span**

Start Date: 2009-10-13

End Date: 2011-11-17

### **Notes**

BPR owned and maintained by Australian Bureau of Meteorology.

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  $102.9 = 0.68947573 / 0.67 * 100$ .

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=56003](http://www.ndbc.noaa.gov/station_page.php?station=56003) as at 03/07/2014.

There were suspect data between 10th and 25th of March 2011, often interspersed with switches to event mode, which likely to be related to seismic activity but known earthquake events could not be found in the region that directly coincided (see [http://itic.ioc-unesco.org/index.php?option=com\\_content&view=category&layout=blog&id=1160&Itemid=1077](http://itic.ioc-unesco.org/index.php?option=com_content&view=category&layout=blog&id=1160&Itemid=1077)), so spikes were flagged as suspect. This BPR is located in an area prone to seismic activity and the data must therefore be treated with caution.

An offset of 576 bar was removed from the raw pressure data.

## **Channels**

### **56003\_0911 (Preferred Channel)**

Parameter: pressure

## **Supplier**

### **Address**

Australian Bureau of Meteorology  
GPO Box 1289  
Melbourne VIC 3001  
(700 Collins Street, Docklands)  
Australia

### **Notes**

Data were obtained via NDBC. However, instrumentation is owned and maintained by ABM.