

Deployment 56001_1113

(NDBC 56001 - Indian Ocean 1 - 1025km NW of Dampier)

Location

Latitude: -13.991

Longitude: 110.097

Depth: 5660 m

Ocean region: 3.1 - Indian Ocean (East)

Time Span

Start Date: 2011-11-25

End Date: 2013-05-31

Notes

BPR owned and maintained by Australian Bureau of Meteorology.

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=56001 as at 04/04/2014.

An offset of 580 bar was removed from the raw pressure data.

This station was tough to process as there are numerous apparent datum shifts, many of which coincided with switches to 'event mode' and were therefore likely to be real, tsunami-related shifts. Where spikes or datum shifts did not coincide with switches to event mode or with known earthquake events (see http://itic.ioc-unesco.org/index.php?option=com_content&view=category&layout=blog&id=1160&Itemid=1077), they were flagged as suspect. This BPR is located in an area prone to seismic activity and the data must therefore be treated with caution.

Data downloaded from http://www.ndbc.noaa.gov/historical_data.shtml

Channels

56001_1113 (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.