

Deployment 51425_1314

(NDBC 51425 - North West Apia - 370 NM NW of Apia, Samoa)

Location

Latitude: -9.51

Longitude: -176.241

Depth: 4960 m

Ocean region: 2.3 - Tropical Pacific Ocean

Time Span

Start Date: 2013-08-24

End Date: 2014-08-01

Notes

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

There are a number of shifts in pressure on:

28/10/2013 at 07:30

06/11/2013 at 05:30

09/11/2013 at 10:00

29/12/2013 at 02:15

These last 2 shifts are particularly large (~30 mb) and are associated with a switch to 'event mode' of the tsunameter, so may be due to a shift in the position of the instrumentation caused by seismic activity.

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 510 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=51425 as at 11/09/2014.

These data must be treated with caution as the station is located in an area of seismic activity.

Data amended 03/09/15. This record replaces 51425_1313 having been updated to include 2014 data.

Channels

51425_1314 (Preferred Channel)

Parameter: pressure

Supplier

Address

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