

Deployment 52402_0809

(NDBC 52402 - South East Saipan - 540 NM ESE of Saipan)

Location

Latitude: 11.569

Longitude: 154.584

Depth: 5799 m

Ocean region: 2.3 - Tropical Pacific Ocean

Time Span

Start Date: 2008-03-21

End Date: 2009-08-18

Notes

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

An offset of 590 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 for the previous deployment (54202_0608), since tidal analysis and raw pressures were more consistent with this than with later deployments.

Data are patchy between March and May 2009.

Caution - initial sensor drift does not appear to have been eliminated entirely from this record.

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 $102.9 = 0.68947573 / 0.67 * 100$.

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

Channels

52402_0809 (Preferred Channel)

Parameter: pressure

Supplier

Address

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