Deployment 51426_1111
(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: 2011-08-23
End Date: 2011-12-16

Notes

Data downloaded from 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 NBDC 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 as at 21/11/2014.

Data amended 06/02/15. Data to 25/08/11 were flagged as suspect due to large initial sensor drift, which could not be removed by a linear plus exponential fit.

Channels

51426_1111 (Preferred Channel)
Parameter: pressure

Supplier

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