

Deployment 46403_1011

(NDBC 46403 - South East Shumagin Island - 186 NM SE of Shumagin Is, Alaska)

Location

Latitude: 52.65

Longitude: -156.943

Depth: 4512 m

Ocean region: 2.1 - Northeast Pacific Ocean

Time Span

Start Date: 2010-05-18

End Date: 2011-06-21

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 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 460 bar was removed from the raw pressure data.

This station was previously known as D157.

Latitudes, longitudes and depths specific to this deployment were not available, so they are taken to be those shown for the latest deployment on webpage www.ndbc.noaa.gov/station_page.php?station=46403 as at 18/12/2014.

Possible effects of an earthquake off the coast of Honshu can be seen in data for 12/03/11-14/03/11 respectively.

The first day of data was removed from the record due to unusually large initial sensor drift, which could not be adequately removed using a linear plus exponential fit.

Channels

46403_1011 (Preferred Channel)

Parameter: pressure

Supplier

Address

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