

Deployment 46402_1011

(NDBC 46402 - South Dutch Harbor - 220 NM SSE of Dutch Harbor, Alaska)

Location

Latitude: 51.02

Longitude: -164.071

Depth: 4770 m

Ocean region: 2.1 - Northeast Pacific Ocean

Time Span

Start Date: 2010-05-21

End Date: 2011-05-06

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 480 bar was removed from the raw pressure data.

Note that the M2 tidal amplitude and phase for deployments prior to and including 46402_0506 differs significantly to the amplitude for subsequent deployments, perhaps indicating that station positions have changed, although this is not supported by metadata shown at <http://www.ngdc.noaa.gov/nndc/struts/results?&t=102597&s=1&d=1>.

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=46402 as at 21/11/2014.

Channels

46402_1011 (Preferred Channel)

Parameter: pressure

Supplier

Address

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