

## **Deployment 32401\_0610**

(NDBC 32401 - 260 NM WSW of Arica, Chile)

### **Location**

Latitude: -20.473

Longitude: -73.429

Depth: 4797 m

Ocean region: 2.3 - Tropical Pacific Ocean

### **Time Span**

Start Date: 2006-10-24

End Date: 2010-01-03

### **Notes**

Data downloaded from [http://www.ndbc.noaa.gov/historical\\_data.shtml](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  $102.9 = 0.68947573 / 0.67 * 100$ .

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=32401](http://www.ndbc.noaa.gov/station_page.php?station=32401) as at 11/12/2014.

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

An offset of 500 bar was removed from the raw pressure data.

Possible effects of an earthquake off the coast of Peru can be seen in data for 16/08/07-18/08/07.

Data amended 06/02/15. Data to 23/11/06 were flagged as suspect due to unusually large initial drift, which could not be removed using a linear plus exponential fit.

### **Channels**

**32401\_0610 (Preferred Channel)**

Parameter: pressure

**Supplier****Address**

Hydrographic & Oceanographic Service of Chilean Navy (SHOA)

Errazuriz Echaurren

254 Playa Ancha

Valparaíso

Chile

**Notes**

Raw data are distributed by NDBC but instrumentation is owned by SHOA