

## **Deployment 54401\_0912**

(NDBC 54401 - North East New Zealand - 640 NM NE of Auckland, NZ)

### **Location**

Latitude: -33.019

Longitude: -172.963

Depth: 5851 m

Ocean region: 2.4 - South Pacific Ocean

### **Time Span**

Start Date: 2009-09-13

End Date: 2012-04-03

### **Notes**

Data downloaded from [http://www.ndbc.noaa.gov/historical\\_data.shtml](http://www.ndbc.noaa.gov/historical_data.shtml)

An offset of 595 bar was removed from the raw pressure data.

Possible effects of an earthquake off the coast of Central Chile and another off the coast of Honshu can be seen in the data for the periods 27/02/10-02/03/10 and 11/03/11-15/03/11 respectively.

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 on webpage [www.ndbc.noaa.gov/station\\_page.php?station=54401](http://www.ndbc.noaa.gov/station_page.php?station=54401) as at 22/10/2014.

This deployment remains in situ. Data will be reprocessed following recovery of the instrumentation.

## **Channels**

### **54401\_0912 (Preferred Channel)**

Parameter: pressure

## **Supplier**

### **Address**

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