

ElNinoArrayW7readmetw.pdf

The 'El Nino', (W7) subsurface mooring with 1 InterOcean systems, inc S4 current meter and 2 Aanderaa Instruments current meters, was deployed August 12, 1997 and subsequently recovered by the Canadian Coast Guard February 8, 1998.

Deployed location Lat: 46-51.743N, Long: 124-14.844W
Bottom depth: approximately 40 meters (m).

The mooring consisted of a subsurface float with an ARGOS 'Witness' buoy that would broadcast the position if for some reason the mooring was separated from its anchor. The InterOcean systems, inc. S4 current meter (serial number (s/n) 811) was at 20 meters (no data was returned), followed by the Aanderaa Instruments current meters (s/n 5099, 2249) at 25m and 30m.

The Aanderaa Instruments current meters measured speed, direction, temperature (T) and conductivity (C). Speed and direction were used to compute u and v components of velocity. If T and C were measured, but no pressure was available, a constant pressure was used to compute salinity. In this case 25 decibars for meter s/n 5099, and 30 decibars for meter s/n 2249 were used to compute salinity.

Data from each instrument is in a separate file composed of tab delimited columns. First column is the scan number, labeled NSCAN. Second column is the date and time converted to Greenwich mean time (GMT), labeled GDATE. The following columns contain u, v components of velocity, temperature and salinity. W7 indicates the 'El Nino' mooring, SSSS stands for the serial number, in this case, either 5099 or 2249, u is the u component of velocity in cm/sec, v is the v component of velocity in cm/sec, T indicates the temperature in degrees C, and Sal indicates the computed salinity. DD stands for depth in meters, either 25, or 30. For example W7.5099T25 indicates the data is from the W7 mooring, instrument s/n 5099, temperature at depth 25 meters. The last column is labeled JJ and filled with zeroes. It just denotes the last column and has no significance.

Note: Data has been rotated to true N. The angle used was 18.0 degrees.

Data files:
W7.509925tw.txt
W7.224930tw.txt

This mooring was deployed August 12, 1997. The ARGOS witness buoy began broadcasting Jan. 30, 1998 at 10:17GMT indicating the mooring had separated from its anchor and was on the surface. The mooring was recovered by the Canadian Coast Guard February 8, 1998.