

CBOS1readmetwn.pdf

The Coos Bay Offshore current meter mooring was composed of an Acoustic Doppler Current Profiler (ADCP) 300 kHz workhorse at approximately 84m, and 2 Aanderaa Instruments current meters at approximately 64 and 34m.

The Coos Bay Offshore mooring ADCP data is in two files, CBOS1lo_B118tw.txt and CBOS1up_B1937tw.txt, both composed of tab delimited columns.

First column is the ensemble number.

Second column is the date and time converted to GMT.

Third column, temp, is the temperature data at the ADCP heads, 84 meters.

Starting with the fourth column the column header denotes the bin and component.

The last column is labeled JJ and filled with zeroes. It just denotes the last column and has no significance.

velocity units are cm/sec.

***Bin 1 corresponds to 80 meters, bin 2 78 meters, bin 3 76 meters, etc. The last bin included is bin 37 at 8m.

Spikes related to side lobe reflection off the surface and subsurface instruments on the mooring above the ADCP transducer heads may be present.

The lat and long are 43-09.48N, 124-33.99W.

Corrected bottom depth is approximately 95m.

Data has been rotated to true North, the rotation angle used was 18, missing data and spurious points were filled using linear interpolation.

ADCP Workhorse info

Frequency 300 kHz

Beam angle 20 deg

4 beam system

Upward looking orientation

The sample set up was:

Bin length: 2 meters

Blank after transmit: 1.8 meters

Pings per ensemble 60

Time per ping: 59.99 s

Distance to first bin: 4 meters