

General information: All files consist of comma delimited text. The first column in each file is the “day number” beginning with January 1, 2009. As an example, August 13, 2009 at 00:00:00 hours would be day number 225.0000000000. The day number is derived from GPS data by each Restrained ADOS A instrument.

File: Location Data

File extension: A*_loc.txt

Content: Location and Restrained ADOS A instrument battery voltage

Format: daynumber, latitude sign, latitude degrees, longitude sign, longitude degrees, GPS figure of merit (FOM) in meters, voltage of bouy

File: Pressure Data

File extension: C*_press.txt

Content: Thermistor chain pressure. Invalid pressures are 40.95.

Format: daynumber, p1,...,pEnd (bar) (note: data corresponds to physical sensor order - see “About Calibration Files” for additional information)

Formula: $P_{true} = (\text{scaling factor} * P_{sensor}) + \text{offset} - \sim 1 \text{ bar}$

Calibration: See calibration files for additional information

File: Pressure Data

File extension: A*_press.txt (Not available on web)

Content: Thermistor chain pressure. Invalid pressures are 40.95.

Format: daynumber, p1,...,p20 (bar) (note: data is presented by sensor reporting order and is not corrected for physical sensor order – see “About Calibration Files” for additional information)

Formula: $P_{true} = (\text{scaling factor} * P_{sensor}) + \text{offset} - \sim 1 \text{ bar}$

Calibration: See calibration files for additional information

File: ADCP Data

File extension: A*_adcp_diag.txt

Content: ADCP data (for additional information visit the Nortek AS web site and download System Integrator Guide, Paradopp Family of Products, October 2004, N3001-101 Rev. F). ADCP is programmed for 20 cells, 4 meter cell size and 90 sec averages.

Format: daynumber, sync, format ID, size, year, month, day, hour, minute, second, error, analog, battery, sound, compass heading, pitch, roll, pressure, status, temperature, check sum (raw value converted to decimal)

File: Temperature Data

File extension: C*_temp.txt

Content: Thermistor chain temperature. Sst is always invalid (sensor does not contact water). Invalid values are 35.95 and -5.

Format: daynumber, sst, t1,...,tEnd (degrees Celsius) (note: data corresponds to physical sensor order - see “About Calibration Files” for additional information)

Formula: $T_{true} = \text{slope} * T_{sensor} + \text{intercept}$.

Calibration: See calibration files for additional information

File: Temperature Data (Not available on web)

File extension: A*_temp.txt

Content: Thermistor chain temperature. Sst is always invalid (sensor does not contact water). Invalid values are 35.95 and -5.

Format: daynumber, sst, t1,...,t20 (degrees Celsius) (note: data is presented by sensor reporting order and is not corrected for physical sensor order – see “About Calibration Files” for additional information)

Formula: $T_{true} = \text{slope} * T_{sensor} + \text{intercept}$.

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Calibration: See calibration files for additional information

File: Velocity E Data

File extension: A*_adcp_ve.txt

Content: E velocity (20 cell, 4 meter cell size, 90 sec averages)

Format: daynumber, ve1,...,ve20 (cm/sec)

File: Velocity N Data

File extension: A*_adcp_vn.txt

Content: N velocity (20 cell, 4 meter cell size, 90 sec averages)

Format: daynumber, vn1,...,vn20 (cm/sec)

File: Velocity U Data

File extension: A*_adcp_vu.txt

Content: U velocity (20 cell, 4 meter cell size, 90 sec averages)

Format: daynumber, vu1,...,vu20 (cm/sec)

File: Beam 1 Amplitude Data

File extension: A*_amp_1.txt

Content: Beam 1 amplitude

Format: daynumber, a1,...,a20

File: Beam 2 Amplitude Data

File extension: A*_amp_2.txt

Content: Beam 2 amplitude

Format: daynumber, a1,...,a20

File: Beam 3 Amplitude Data

File extension: A*_amp_3.txt

Content: Beam 3 amplitude

Format: daynumber, a1,...,a20

File: Data Conversion Log (Not available on web)

File extension: A*_conv_log.txt

Content: n/a

Format: n/a

File: Raw Data (Hexadecimal Text; not available on web)

File extension: A*_t.txt

Content: Raw data presented as hexadecimal text

Format: n/a