| ParserName | Instruments supported | File format documentation |
|---------------------|--------------------------------|--|
| | | No documentation, proprietary binary file format. Knowledge based on |
| | | reverse engineering: http://code.google.com/p/imos- |
| YSI6SeriesParse | YSI 6 series loggers | toolbox/wiki/YSIBinaryFormat |
| | | Not exhaustive documentation but ASCII format easy to read and |
| XR420Parse | RBR XR420 loggers (.DAT) | efficient RBR Support. |
| | RBR XR620 loggers (engineering | |
| XR620Parse | .txt) | In development. Same as above. |
| WQMParse | Wetlabs WQM (.Dat / .Raw) | No documentation but ASCII format easy to read. |
| | Teledyne RD Workhorse ADCP | Binary file format, look for WorkHorse Commands and Ouput Data |
| workhorseParse | (PD0 format) | Format Document (P/N 957-6156-00) |
| | SBE39 TP (.asc) | Documentation and ASCII format |
| SBE39Parse | SBE39IM TP (.asc) | Documentation and ASCII format |
| SBE37SMParse | SBE37SM CTD (.cnv) | Documentation and ASCII format |
| | SBE37 Microcat CTD (.asc) and | |
| | its variations (IM, IMP, SM, | |
| | SMP, SI, SIP / RS232, RS485) | Documentation and ASCII format |
| | | Has just been implemented for OOI (USA). Documentation and binary |
| SBE37Parse | SBE37IM (.dat) | format. |
| SBE19Parse | SBE19+ V2 (.hex / .cnv) | Documentation and binary/ASCII format |
| | | Not exhaustive documentation, proprietary binary file format. |
| | | Knowledge based on reverse engineering: |
| | | http://code.google.com/p/imos-toolbox/wiki/NXICBinaryFormat and |
| | | discussions between Charles James and Teledyne Support (information |
| NXICBinaryParse | NXIC CTD (raw .ctd) | to be retrieved from Charles). |
| netCDFParse | NetCDF IMOS | |
| | .csv output from Echoview | |
| echoviewParse | software | No documentation but generic .csv file format. |
| DD4050D | | Not exhaustive documentation but ASCII format easy to read and |
| DR1050Parse | RBR 1050DR depth logger | efficient RBR Support. |
| | Nortek Continental ADCP | |
| continentalParse | (raw .cpr) | Documentation and binary format |
| aug aDawas | Nortek AWAC wave (.wpr, | Desume autotion and him on a format |
| awacParse | .whd, .wap, .was, .wdr) | Documentation and binary format |
| a su cata a Da sa a | Aquatec AQUAlogger 520 T, P, | Not substitute desume exterior but ACCII formest essues ===== |
| aquatecParse | PT | Not exhaustive documentation but ASCII format easy to read. |
| aquadoppProfilerPar | | Decumentation and hinary format |
| se | Nortek Aquadopp promer (.prt) | Documentation and binary format |

| Parser | file format | variable in file | Error found | Comment | version corrected |
|----------------------|--|------------------|---|--|----------------------|
| | | | convert DO saturation % to kg.m-3 (DOXY) simply by *10000! What's the point converting here to fit to | Would need an example file but who is using this | |
| YSI6SeriesParse | | odo | DOXY, as a new parameter DOXS is at stake. | kind of instrument? | 2 |
| | | | Convert DO mg.l-1 to kg.m-3 without /1000! DO | | |
| | | | concentration is now output in unit umol/l as a standard | | |
| | | 1 | (parameter DOX1), assuming 1mg/l = 31.25umol/l. | | |
| YSI6SeriesParse | | odo2 | Parameter DOX2 is also given in umol/kg when possible. IMOS param is not CNDC but SPEC CNDC (new param I | | 2 |
| | | | created) for variable with comment 'Specific | | |
| YSI6SeriesParse | | spcond | conductance' | | 2 |
| | | | DO concentration is now output in unit umol/l as a standard (parameter DOX1), assuming 1mg/l = | | |
| | | | 31.25umol/l. Parameter DOX2 is also given in umol/kg | | |
| XR620Parse | .txt | rdO2C | when possible. | | 2 |
| XR420Parse | .dat | cond | Forgot to convert conductivity from mS/cm to S/m, so to /10. | | 2 |
| | | | Was using 1ml/l = 44.6596umol/l while correct and | | |
| WQMParse | .dat / .raw | DO (ml/l) | acepted conversion should be 1ml/l = 44.660umol/l | | 2.1 |
| | | | Convert DO mg.l-1 to kg.m-3 without /1000! DO | | |
| | | DO(ml/l) | concentration is now output in unit umol/l as a standard | | |
| | | DO(mg/l) | (parameter DOX1), assuming 1mg/l = 31.25umol/l. | | L |
| WQMParse | .dat / .raw | DO(mmol/m^3) | Parameter DOX2 is also given in umol/kg when possible. conductivity has been divided by 1000 while it wasn't | | 2.1 |
| WQMParse | .dat | Cond(mmho) | necessary | | 2 |
| | | 1 | For WQM, what is called | | |
| | | | mass_concentration_of_chlorophyll_in_sea_water in | | |
| WQMParse | | | the NetCDF file (IMOS parameter CPHL) is not always a mass concentration of Chlorophyll | | 2.0 |
| | | | Pressure is not PRES IMOS parameter (absolute | | |
| | | | pressure) but PRES_REL (relative pressure to the | | |
| WQMParse WQMParse | .dat / .raw .raw | | surface). FLU2 is actually CHLU. | | 2.0 |
| WQMParse | .raw | | DOX2 should be NaN and not 0 if wrongly sampled. | | 2.1 |
| | | not in file, | | | |
| | | computed by | when creating NetCDF variable CDIR from U and V, if | | |
| workhorseParse | PD0 | toolbox | V==0 then NaN instead of 90 or 270. Pressure is now properly converted to dBar (/1000 | | 2 |
| workhorseParse | PD0 | | instead of *1000). | | 2.0 |
| | | | | | |
| | | | For moored ADCP looking upward, the DEPTH dimension/variable in the NetCDF file is inappropriate | | |
| | | | as it is not depth what is in this variable but distance | | |
| | | | between the transducers and the different bins which is | | |
| workhorseParse | PD0 | | named HEIGHT_ABOVE_SENSOR. Pressure is not PRES IMOS parameter (absolute | | 2.0 |
| | | | pressure) but PRES REL (relative pressure to the | | |
| workhorseParse | PD0 | | surface). | | 2.0 |
| | | | Pressure is not PRES IMOS parameter (absolute | | |
| SBE39Parse | | | pressure) but PRES_REL (relative pressure to the surface). | | 2.0 |
| 552551 4150 | | | Pressure is not PRES IMOS parameter (absolute | | 2.0 |
| | | | pressure) but PRES_REL (relative pressure to the | | |
| SBE37SMParse | .cnv | | surface). convert conductivity in uS.cm-1 to S.m-1 by /100 000 | | 2.0 |
| SBE37Parse | .cnv | c0us0x2Fcm | instead of 10 000! | | 2 |
| | | | | | |
| | | 'oxsolMg0x2FL', | Convert DO mg.l-1 to kg.m-3 without /1000! DO concentration is now output in unit umol/l as a standard | | |
| | | 'oxsatMg0x2FL', | (parameter DOX1), assuming 1mg/l = 31.25umol/l. | | |
| SBE37Parse | .cnv | 'sbeox0Mg0x2FL' | Parameter DOX2 is also given in umol/kg when possible. | | 2 |
| | / CDE27 IN4 have | | Pressure is not PRES IMOS parameter (absolute | | |
| SBE37Parse | .cnv / SBE37-IM hex format from OOI | | pressure) but PRES_REL (relative pressure to the surface). | | 2.0 |
| 552571 0.50 | ionnat nom co. | | convert conductivity in uS.cm-1 to S.m-1 by /100 000 | | 2.0 |
| SBE19Parse | .cnv | c0us0x2Fcm | instead of 10 000! | | 2 |
| | | | Convert DO mg.l-1 to kg.m-3 without /1000! DO | | |
| | | 'oxsolMg0x2FL', | concentration is now output in unit umol/l as a standard | | 1 |
| | | 'oxsatMg0x2FL', | (parameter DOX1), assuming 1mg/l = 31.25umol/l. | | |
| SBE19Parse | .cnv | 'sbeox0Mg0x2FL' | Parameter DOX2 is also given in umol/kg when possible. Pressure is not PRES IMOS parameter (absolute | | 2 |
| | | | pressure) but PRES_REL (relative pressure to the | | 1 |
| SBE19Parse | .cnv | | surface). | | 2.0 |
| | | | DOXY computed value was wrong (read value was | | |
| | | | multiplied by 32, but should be divided by (31.25 * 1000). DO concentration is now output in unit umol/l as | | 1 |
| | | | a standard (parameter DOX1). Parameter DOX2 is also | | |
| SBE19Parse | .hex | 'optode' | given in umol/kg when possible. | | 2.1 |
| | | | NXIC and Citadel CTD from South Australia are not measuring CF parameter sea_water_speed (IMOS | | |
| | | | parameter CSPD) like you can see in the NetCDF file but | | 1 |
| NXICBinaryParse | 1 | 1 | CF parameter speed_of_sound_in_sea_water. | | 2.0 |

| For moored ADCP looking upward, the DEPTH dimension/variable in the NetCDF file is inappropriate as it is not depth what is in this variable but distance between the transducers and the different bins which is named HEIGHT_ABOVE_SENSOR. Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface). Values for pitch/roll are wrongly read (unsigned instead of signed integer) and give huge positive values. ZCUR is not an IMOS parameter for vertical currents => | 2.0 |
|--|---|
| dimension/variable in the NetCDF file is inappropriate as it is not depth what is in this variable but distance between the transducers and the different bins which is named HEIGHT_ABOVE_SENSOR. Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface). Values for pitch/roll are wrongly read (unsigned instead of signed integer) and give huge positive values. | |
| as it is not depth what is in this variable but distance between the transducers and the different bins which is named HEIGHT_ABOVE_SENSOR. Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface). Values for pitch/roll are wrongly read (unsigned instead of signed integer) and give huge positive values. | |
| between the transducers and the different bins which is named HEIGHT_ABOVE_SENSOR. Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface). Values for pitch/roll are wrongly read (unsigned instead ontinentalParse raw .cpr of signed integer) and give huge positive values. | |
| ontinentalParse raw .cpr named HEIGHT_ABOVE_SENSOR. Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface). Values for pitch/roll are wrongly read (unsigned instead ontinentalParse raw .cpr of signed integer) and give huge positive values. | |
| Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface). Values for pitch/roll are wrongly read (unsigned instead of signed integer) and give huge positive values. | 2.0 |
| ontinentalParse raw .cpr surface). Values for pitch/roll are wrongly read (unsigned instead of signed integer) and give huge positive values. | 2.0 |
| Values for pitch/roll are wrongly read (unsigned instead of signed integer) and give huge positive values. | 2.0 |
| continentalParse raw .cpr of signed integer) and give huge positive values. | |
| continentalParse raw .cpr of signed integer) and give huge positive values. | |
| | 20 |
| ZCUR is not an IMOS parameter for vertical currents => | 2.0 |
| continentalParse raw .cpr WCUR!!! (explains there is no unit) | 2.0 |
| continentalParse raw .cpr WCUR!!! (explains there is no unit) UCUR and VCUR parameters have been swapped. UCUR | 2.0 |
| was filled with the meridional component of the current | |
| continentalParse raw .cpr while VCUR with the zonal component. | 2.1 |
| continentalParse raw .cpr PRES_REL is not 0.255 anymore, but genuine value. | 2.1 |
| | |
| For moored ADCP looking upward, the DEPTH | |
| dimension/variable in the NetCDF file is inappropriate | |
| as it is not depth what is in this variable but distance | |
| .wpr, .whd, .wap, between the transducers and the different bins which is named HEIGHT ABOVE SENSOR. | 2.0 |
| Pressure is not PRES IMOS parameter (absolute | 2.0 |
| .wpr, .whd, .wap, pressure is not PRES_REL (relative pressure to the | [|
| awacParse was, wdr surface). | 2.0 |
| | |
| .wpr, .whd, .wap, Values for pitch/roll are wrongly read (unsigned instead | [|
| wacParse .was, .wdr of signed integer) and give huge positive values. | 2.0 |
| .wpr, .whd, .wap, ZCUR is not an IMOS parameter for vertical currents => | |
| wacParse was, .wdr WCUR!!! (explains there is no unit) | 2.0 |
| UCUR and VCUR parameters have been swapped. UCUR | |
| wpr, .whd, .wap, was filled with the meridional component of the current wacParse was, .wdr while VCUR with the zonal component. | 2.1 |
| .wpr, .whd, .wap, | 2.1 |
| was, wdr PRES_REL is not 0.255 anymore, but genuine value. | 2.1 |
| In burst mode, time, temperature and pressure are only | |
| AquatecParse .csv averaged if they haven't already been. | 2.0 |
| AquatecParse .csv Pressure is now properly converted to dBar (*10). | 2.0 |
| | |
| For moored ADCP looking upward, the DEPTH | 1 |
| dimension/variable in the NetCDF file is inappropriate | l |
| | |
| as it is not depth what is in this variable but distance | |
| between the transducers and the different bins which is | 20 |
| between the transducers and the different bins which is | 2.0 |
| between the transducers and the different bins which is named HEIGHT_ABOVE_SENSOR. | 2.0 |
| between the transducers and the different bins which is named HEIGHT_ABOVE_SENSOR. Negative current values are wrongly read (unsigned | 2.0 |
| between the transducers and the different bins which is named HEIGHT_ABOVE_SENSOR. Negative current values are wrongly read (unsigned | |
| between the transducers and the different bins which is named HEIGHT_ABOVE_SENSOR. Negative current values are wrongly read (unsigned instead of signed integer) and give huge positive values. Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the | |
| petween the transducers and the different bins which is named HEIGHT_ABOVE_SENSOR. Negative current values are wrongly read (unsigned instead of signed instead of signed integer) and give huge positive values. Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the | |
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| between the transducers and the different bins which is named HEIGHT_ABOVE_SENSOR. Negative current values are wrongly read (unsigned instead of signed integer) and give huge positive values. Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface). Values for pitch/roll are wrongly read (unsigned instead of signed integer) and give huge positive values. ZCUR is not an IMOS parameter for vertical currents => WCUR!!! (explains there is no unit) | 2.0 |
| between the transducers and the different bins which is named HEIGHT_ABOVE_SENSOR. Negative current values are wrongly read (unsigned instead of signed integer) and give huge positive values. Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface). Values for pitch/roll are wrongly read (unsigned instead of signed integer) and give huge positive values. Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface). Values for pitch/roll are wrongly read (unsigned instead of signed integer) and give huge positive values. ZCUR is not an IMOS parameter for vertical currents => WCUR!!! (explains there is no unit) UCUR and VCUR parameters have been swapped. UCUR | 2.0 2.0 2.0 |
| between the transducers and the different bins which is named HEIGHT_ABOVE_SENSOR. Negative current values are wrongly read (unsigned instead of signed integer) and give huge positive values. Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface). Values for pitch/roll are wrongly read (unsigned instead of signed integer) and give huge positive values. QuadoppProfilerParse .prf values for pitch/roll are wrongly read (unsigned instead of signed integer) and give huge positive values. ZCUR is not an IMOS parameter for vertical currents => WCUR!!! (explains there is no unit) UCUR and VCUR parameters have been swapped. UCUR was filled with the meridional component of the current | 2.0 2.0 2.0 |
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| between the transducers and the different bins which is named HEIGHT_ABOVE_SENSOR. Negative current values are wrongly read (unsigned instead of signed integer) and give huge positive values. Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface). Values for pitch/roll are wrongly read (unsigned instead of signed integer) and give huge positive values. Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface). Values for pitch/roll are wrongly read (unsigned instead of signed integer) and give huge positive values. ZCUR is not an IMOS parameter for vertical currents => WCUR!!! (explains there is no unit) UCUR and VCUR parameters have been swapped. UCUR was filled with the meridional component of the current while VCUR with the zonal component. PRES_REL is not 0.255 anymore, but genuine value. | 2.0 2.0 2.0 2.1 2.1 with any of e to read it in |
| between the transducers and the different bins which is named HEIGHT_ABOVE_SENSOR. Negative current values are wrongly read (unsigned instead of signed integer) and give huge positive values. Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface). Values for pitch/roll are wrongly read (unsigned instead of signed integer) and give huge positive values. ZCUR is not an IMOS parameter for vertical currents => WCUR!!! (explains there is no unit) UCUR and VCUR parameters have been swapped. UCUR was filled with the meridional component of the current while VCUR with the zonal component. PRES_REL is not 0.255 anymore, but genuine value. Orortek Aquadopp PRES_REL, TEMP, UCUR, VCUR and WCUR are wrongly theory but don't really know if true in the ory but don't really know if true in the original component. | 2.0 2.0 2.0 2.1 2.1 2.1 with any of e to read it in n practice. 2.1 |
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| between the transducers and the different bins which is named HEIGHT_ABOVE_SENSOR. Negative current values are wrongly read (unsigned instead of signed integer) and give huge positive values. Values for pitch/roll are wrongly read (unsigned instead of signed instead of signed integer) and give huge positive values. ZCUR is not an IMOS parameter for vertical currents => WCUR!!! (explains there is no unit) UCUR and VCUR parameters have been swapped. UCUR was filled with the meridional component of the current while VCUR with the zonal component. QuadoppProfilerParse | 2.0 2.0 2.0 2.1 2.1 with any of e to read it in n practice. 2.1 with any of e to read it in |
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| between the transducers and the different bins which is named HEIGHT_ABOVE_SENSOR. Negative current values are wrongly read (unsigned instead of signed integer) and give huge positive values. Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface). Values for pitch/roll are wrongly read (unsigned instead of signed integer) and give huge positive values. QuadoppProfilerParse .prf | 2.0 2.0 2.0 2.0 2.1 2.1 2.1 with any of e to read it in n practice. 2.1 with any of e to read it in n practice. 2.1 with any of e to read it in n practice. 2.1 with any of |
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