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

Parser	file format	variable in file	Error found	Comment	version corrected
YSI6SeriesParse		odo	convert DO saturation % to kg.m-3 (DOXY) simply by *10000! What's the point converting here to fit to DOXY, as a new parameter DOXS is at stake.	Would need an example file but who is using this kind of instrument?	2.1
YSI6SeriesParse		odo2	Convert DO mg.l-1 to kg.m-3 without /1000! 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 when possible.		2.1
YSI6SeriesParse		spcond	IMOS param is not CNDC but SPEC_CNDC (new param I created) for variable with comment 'Specific conductance'		2.1
XR620Parse	.txt	rdO2C	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 when possible.		2.1
XR420Parse	.dat	cond	Forgot to convert conductivity from mS/cm to S/m, so to /10.		2.1
WQMParse	.dat / .raw	DO (ml/l)	Was using 1ml/l = 44.6596umol/l while correct and acepted conversion should be 1ml/l = 44.660umol/l		2.1
WQMParse	.dat / .raw	DO(ml/l) DO(mg/l) DO(mmol/m^3)	Convert DO mg.l-1 to kg.m-3 without /1000! 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 when possible.		2.1
WQMParse	.dat	Cond(mmho)	conductivity has been divided by 1000 while it wasn't necessary		2.1
WQMParse			For WQM, what is called mass_concentration_of_chlorophyll_in_sea_water in the NetCDF file (IMOS parameter CPHL) is not always a mass concentration of Chlorophyll		2.0
WQMParse	.dat / .raw		Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface).		2.0
WQMParse	.raw		FLU2 is actually CHLU.		2.1
WQMParse	.raw		DOX2 should be NaN and not 0 if wrongly sampled.		2.1
workhorseParse	PD0	not in file, computed by toolbox	when creating NetCDF variable CDIR from U and V, if V==0 then NaN instead of 90 or 270.		2.1
workhorseParse	PD0		Pressure is now properly converted to dBar (/1000 instead of *1000).		2.0
workhorseParse	PD0		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.		2.0
workhorseParse	PD0		Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface).		2.0
SBE39Parse			Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface).		2.0
SBE37SMParse	.cnv		Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface).		2.0
SBE37Parse	.cnv	c0us0x2Fcm	convert conductivity in uS.cm-1 to S.m-1 by /100 000 instead of 10 000!		2.1
SBE37Parse	.cnv	'oxsolMg0x2FL', 'oxsatMg0x2FL', 'sbeox0Mg0x2FL'	Convert DO mg.l-1 to kg.m-3 without /1000! 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 when possible.		2.1
SBE37Parse	.cnv / SBE37-IM hex format from OOI		Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface).		2.0
SBE19Parse	.cnv	c0us0x2Fcm	convert conductivity in uS.cm-1 to S.m-1 by /100 000 instead of 10 000!		2.1
SBE19Parse	.cnv	'oxsolMg0x2FL', 'oxsatMg0x2FL', 'sbeox0Mg0x2FL'	Convert DO mg.l-1 to kg.m-3 without /1000! 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 when possible.		2.1
SBE19Parse	.cnv		Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface).		2.0
SBE19Parse	.hex	'optode'	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 a standard (parameter DOX1). Parameter DOX2 is also given in umol/kg when possible.		2.1
NXICBinaryParse			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 CF parameter speed_of_sound_in_sea_water.		2.0

continentalParse	raw .cpr		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.		2.0
continentalParse	raw .cpr		Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface).		2.0
continentalParse	raw .cpr		Values for pitch/roll are wrongly read (unsigned instead of signed integer) and give huge positive values.		2.0
continentalParse	raw .cpr		ZCUR is not an IMOS parameter for vertical currents => WCUR!!! (explains there is no unit)		2.0
continentalParse	raw .cpr		UCUR and VCUR parameters have been swapped. UCUR was filled with the meridional component of the current while VCUR with the zonal component.		2.1
continentalParse	raw .cpr		PRES_REL is not 0.255 anymore, but genuine value.		2.1
awacParse	.wpr, .whd, .wap, .was, .wdr		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.		2.0
awacParse	.wpr, .whd, .wap, .was, .wdr		Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface).		2.0
awacParse	.wpr, .whd, .wap, .was, .wdr		Values for pitch/roll are wrongly read (unsigned instead of signed integer) and give huge positive values.		2.0
awacParse	.wpr, .whd, .wap, .was, .wdr		ZCUR is not an IMOS parameter for vertical currents => WCUR!!! (explains there is no unit)		2.0
awacParse	.wpr, .whd, .wap, .was, .wdr		UCUR and VCUR parameters have been swapped. UCUR was filled with the meridional component of the current while VCUR with the zonal component.		2.1
awacParse	.wpr, .whd, .wap, .was, .wdr		PRES_REL is not 0.255 anymore, but genuine value.		2.1
AquatecParse	.csv		In burst mode, time, temperature and pressure are only averaged if they haven't already been.		2.0
AquatecParse	.csv		Pressure is now properly converted to dBar (*10).		2.0
aquadoppProfilerParse	.prf		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.		2.0
aquadoppProfilerParse	.prf		Negative current values are wrongly read (unsigned instead of signed integer) and give huge positive values.		2.0
aquadoppProfilerParse	.prf		Pressure is not PRES IMOS parameter (absolute pressure) but PRES_REL (relative pressure to the surface).		2.0
aquadoppProfilerParse	.prf		Values for pitch/roll are wrongly read (unsigned instead of signed integer) and give huge positive values.		2.0
aquadoppProfilerParse	.prf		ZCUR is not an IMOS parameter for vertical currents => WCUR!!! (explains there is no unit)		2.0
aquadoppProfilerParse	.prf		UCUR and VCUR parameters have been swapped. UCUR was filled with the meridional component of the current while VCUR with the zonal component.		2.1
aquadoppProfilerParse	.prf		PRES_REL is not 0.255 anymore, but genuine value.		2.1
Nortek Aquadopp velocity?			PRES_REL, TEMP, UCUR, VCUR and WCUR are wrongly read.	I don't think eMII has been provided with any of these files. The parser should be able to read it in theory but don't really know if true in practice.	2.1
Nortek Vector velocity?			Negative current values are wrongly read (unsigned instead of signed integer) and give huge positive values.	I don't think eMII has been provided with any of these files. The parser should be able to read it in theory but don't really know if true in practice.	2.1
Nortek Vector system?			Temperature is not read.	I don't think eMII has been provided with any of these files. The parser should be able to read it in theory but don't really know if true in practice.	2.1
Nortek Aquadopp HR?			Negative current values are wrongly read (unsigned instead of signed integer) and give huge positive values.	I don't think eMII has been provided with any of these files. The parser should be able to read it in theory but don't really know if true in practice.	2.1
Nortek Vectrino velocity?			Negative current values are wrongly read (unsigned instead of signed integer) and give huge positive values.	I don't think eMII has been provided with any of these files. The parser should be able to read it in theory but don't really know if true in practice.	2.1