

**Definition of datafileformat  
used to exchange data  
at Institute of Marine Research  
Bergen Norway**

**CRUISE-FILE-FORMAT**

***CTD-data 1.1***

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# CTD stationdata

Name	Format	Type	Description	Accepted values	Dummy	Unit
YEAR	i5	Integer	Year	0 <-> + 9999	-9	YYYY
SHIP	i5	Integer	Shipcode	0 <-> + 9999	-9	Shipcode (ICES)
STID	i5	Integer	Stationnumber	0 <-> + 9999	-9	
MON	i3	Integer	Month	0 <-> + 12	-9	MM
DAY	i3	Integer	Day	0 <-> + 31	-9	DD
HOUR	i3	Integer	Hour	0 <-> + 23	-9	HH
MIN	i3	Integer	Minute	0 <-> + 59	-9	MM
SEC	i3	Integer	Second	0 <-> + 59	-9	SS
LAT	f10.4	Real	Latitude	- 90.0 <-> + 90.0	-999.0	(North +) (South -)
LON	f10.4	Real	Longitude	>-180.0 <-> + 180.0	-999.0	(East +) (West -)
WDIR	i3	Real	Winddirection	0 <-> + 36, 99	-9	WMO Code 0877
WSPEED	i3	Integer	Windspeed	0 <-> + 99	-9	Knots
DTEMP	f7.1	Real	Drytemperature	- 99.9 <-> + 999.9	-999.0	Degrees Celsius
WTEMP	f7.1	Real	Wettemperature	- 99.9 <-> + 999.9	-999.0	Degrees Celsius
WEATH	i3	Integer	Weather	0 <-> + 9	-9	ICES OPC Sys 1979
CLOUDS	i3	Integer	Clouds	0 <-> + 9	-9	ICES OPC Sys 1979
SEA	i3	Integer	Sea	0 <-> + 9	-9	ICES OPC Sys 1979
ICE	i3	Integer	Ics	0 <-> + 9	-9	ICES OPC Sys 1979
LOG	f7.1	Real	Shiplog	0.0 <-> + 9999.9	-999.0	Nautical mile
ECHO	i5	Integer	Echodepth	0 <-> + 9999	-9	Meter
STTYPE	i3	Integer	Stationtype	0 <-> + 9	-9	IMR Code
EQUIP	i6	Integer	Equipment	0 <-> + 99999	-9	IMR Code

## Fortran format:

i5, i5, i5, i3, i3, i3, i3, i3, f10.4, f10.4, i3, i3, f7.1, f7.1, i3, i3, i3, i3, f7.1, i5, i3, i6

## Example of stationdata:

\$

1995 15 1 12 19 95 2 70.5002 20.0063 17 20 4.0 4.0 2 8 3 0 2422.0 131.0 7100

ˆ is used as spacemark in the example

# CTD measuredata

Name	Format	Type	Description	Accepted values	Dummy	Unit
PRES	f7.1	Real	Pressure	0.0 <-> + 9999.9	-999.0	dbar
TEMP	f10.4	Real	Temperature	- 2.0 <-> + 40.0	-999.0	Degrees Celsius
SAL	f10.4	Real	Salinity	0.0 <-> + 42.0	-999.0	PSU
COND	f10.4	Real	Conductivity	0.0 <-> + 55.0	-999.0	milliSiemens
DEPTH	f7.1	Real	Depth	0.0 <-> + 9999.9	-999.0	meter
QUAL	i6	Integer	IGOSS quality	0 <-> + 99999	-9	IGOSS scale

## Fortran format:

f7.1, f10.4, f10.4, f10.4, f7.1, i6

## Example of stationdata:

```

4.0 5.6180 34.0470 33.1820 3.911111
5.0 5.6180 34.0470 33.1830 5.011111
6.0 5.6180 34.0480 33.1840 6.011111
7.0 5.6190 34.0480 33.1850 6.911111

```

ˆ is used as spacemark in the example

## IGOSS qualityflag (5 digits):

First digit:	Pressure quality
Second digit:	Temperature quality
Third digit:	Salinity quality
Fourth digit:	Conductivity quality
Fifth digit:	Depth quality

### 0 - No quality control

*No quality control has been performed.*

### 1 - Correct

*Appears to be correct.*

### 2 - Inconsistent

*Appears to be inconsistent with other elements.*

### 3 - Doubtful

*Appears to be doubtful.*

### 4 - Erroneous

*Appears to be erroneous. The flag indicates a value outside the permitted range.*

### 5 - Corrected

*The value has been corrected. The flag inicates a change has been made by the operator. Only obvious errors are corrected. The previous value are not saved.*

### 8 - Inter-/extrapolated

*Reserved. Local definition: The value is interpolated/extrapolated by observer. Methods unspecified.*

### 9 - Missing

*The value of the element is missing.*