

DECODING INFORMATION OF CTD DATA

CTD Data files contain header information followed by Depth Vs. Temperature & Salinity data. Following are the decoding information.

Columns 1-2	: Record ID. (XX) two character code always blank.
Column 3	: CTD probe type. (X) One character code. 4 for CTD probe.
Column 4-8	: Ship Call Sign. (XXXX) Alpha numeric representation of Ship Call Sign. In present case a dot is followed by a radio code.
Column 10-19	: Alpha numeric representation of Ship name. (XXXXXXXXXX)
Column 20-26	: CTD Cruise number. (XXXXXXX) Alphanumeric representation of cruise number.
Columns 27-30	: CTD Station number. (XXXX) Alphanumeric representation of station number.
Columns 31-37	: Date (YYMMDD) Year, Month, Date
Columns 38-41	: Time. (HHMM) Hour, Minute
Columns 42-46	: Latitude. (DDMMX) Degrees, Minutes
Columns 47	: Latitude Hemisphere. (X) "N" or "S"
Columns 48-53	: Longitude. (DDDMMX) Degree, Minutes
Column 54	: Longitude Hemisphere. (X) "E" or "W"
Columns 60-63	: (XXXX) Number of depth temperature pairs for that particular CTD Station.
Columns 65-70	: (XXXXX) Alphanumeric representation of the type of the data acquisition system used.

DATA Record

Columns 1-6 : Depth
(XXXXX) Meters to tenth decimal point

Columns 7-10 : Temperature
(XXXX) Degree Centigrade to hundreds decimal point.

Columns 11-15 : Salinity
(XXXXX) PSU to thousands decimal point.

An example of Header & Data lines

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4.VTJR  SAGARKANYA  122  1 081012112213 0 N 8054 E      102  ID      SIP
      0295834351      10295834351      20295834351      30295834351      40295834351
```

Header part

4 : Instrument used for Data collection (CTD).
.VTJR : Ship Call Sign.
SAGARKANYA: Ship Name.
122 : CTD Cruise number.
1 : CTD Station number.
081012 : Date (Year: 08, Month: 10, day: 12).
1122 : Time (11 Hours and 22 minutes).
13 0 N : Latitude in Degree Minutes.
8054E : Longitude in Degree Minutes.
102 : Number of depth Vs. temperature & Salinity pairs.
ID : Type of CTD used. (ID : Idronaut, SB : Sea Bird)

Data part

0295834351	Depth : 0.0 mts	Temperature : 29.58 ⁰ C	Salinity : 34.351 psu
40295834351	Depth : 4.0 mts	Temperature : 29.58 ⁰ C	Salinity : 34.351 psu