

III. Documentation

During a cast, a CTD Cast log sheet needs to be filled out in order to document all aspects of the cast. When the cast is finished, this log sheet is placed in the log book for scientists to refer to for cross-referencing their water samples. The log sheet shown here is an example from an LTER cruise; each cruise may want to develop their own log sheet.

The log sheet can contain as much information as desired and can be used in a variety of ways, although there is some critical information that needs to be filled out:

CTD (cast number)	The number of the cast on that particular cruise. It also serves to identify the data file associated with that cast.
Event Number or station number	Science event number. Call the bridge to get this cast's event number. (This may be specific only to certain cruises.)
Grid	Where the CTD was cast. This can also differ per cruise.
Latitude/Longitude	Used to verify where on the grid the CTD was cast. This is important if the cast is located between set stations or if the computer has trouble getting the information from the AshTech GPS.
Depth to bottom	Helps characterize the cast.
Technician	Who was running the cast from the Dry Lab.
Data File Name	Imperative in order to find the data from that particular cast.
Sensors	In case a sensor had to be replaced or added before this cast. If no sensors have been replaced, simply check "No" in all the boxes.
Target Bottle Depths	This grid helps the technician identify which bottles to fire at which depth, and to help keep the rosette balanced.
Underway Log	Most important are time and pressure, as well as listing which bottle was fired at that particular depth, the temperature at the surface, and the mixed layer depth.

Always place the finished log sheet in the log book. An example of a log sheet (2 pages) are on the following pages.

LTER Ice Cruise

NBP 99-06

CTD: 0013

Event: 00030

Station:

Grid:240.100

	Date y/m/d	GMT	Latitude	Longitude	depth (uncorr)	depth (corrected)
Begin	99/06/18	13:44	66°52'26"	70°50'59"	521	
Bottom	99/06/18	13:57	66°52'32"	70°51'03"	520	
End	99/06/18	14:11	66°52'32"	70°51'06"	521	

Technician:	IANNUZZI
File Name:	LTER013
Audio Tape:	CTD013
Disk:	

Sensors

	Serial Number	New?	
		Yes	No
Pressure 1			X
Pressure 2			X
Temperature 1			X
Temperature 2			X
Conductivity 1			X
Conductivity 2			X
Oxygen 1			X
Oxygen 2			--
Pump 1			X
Pump 2			X
Transmissometer			X
Scatterometer			X
Fluorometer			X
Altimeter			X

Comments

In pancake ice.
BCT=Yes E Word=0001
Bring unit in to check
Fixed—Restart cast
BCT=Yes AGAIN Right at surface—CHECK!!

LTER Ice Cruise

NBP 99-06

CTD:

Target Bottle Depths

1 BOT	2 XX	3 XX	4	5 XX	6 XX	7	8 XX	9 XX	10	11 XX	12 XX
13 PYC	14 XX	15 XX	16 PYC	17 XX	18 XX	19 ML	20 XX	21 XX	22 SFC	23 XX	24 XX

Underway Log

Time	Pressure	Temp	Salinity	Bottle #	Bottle Trips & Comments
:					Surface Enter Water
:					Surface Start Down
13:57	479				1, Surface Temp
14:01	335				4, Mixed layer depth
14:03	241				7
14:05	167				10
14:07	104				13
14:08	67				16
14:09	48				19
14:11	9				22
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