CTD SYSTEM CONFIGURATION
Tech: **Lynne Butler**
Program, versions
File names
Batch files used
Deck cal files

Cruise: **EN416** Dates: **08 - 15 Mar 2006**
Chief Scientist: **Cindy Lee, Stony Brook, NY, USA**
SeaSave Win32 v 5.37d, DOS Seasoft 4.249**, SBE Processing v5.37**
CTD001 - 020.* , **416*.cfg**
pro416*.bat to process, **arc416.bat** to archive
416_xFooaps1.* , 416_xFoos2.*

SBE 9plus CTD underwater unit (6800m depth capability)	S/N	12293-0444, **23539-0607**, none
Pressure sensor, Digiquartz (with temp comp, SBE)	S/N	64853, **80016 (03-Mar-06)**
SBE 11plus deck unit	S/N	**11P12293- 0426**, 0427 (21-Mar-97), none
Temperature sensor, primary (3400 m, 6800m, slow, fast) (SBE 3, 3Plus)	S/N	604, 753, 972, 1164, 1185, 1578, 1678, 2034, **2107**, 2899, 2902, 4126, 4130 (04-Jan-05), 4333
Temperature sensor, secondary (3400 m, 6800m, slow, fast) (SBE 3, 3Plus)	S/N	604, 753, 972, 1164, 1185, 1578, 1678, 2034 2107, 2899, **2902**, 4126 (17-Nov-04), 4130, 4333, none
Conductivity sensor, primary (SBE 4C, 3400m, 6800m)	S/N	199, 200, 618, 856, 864, 1446, 1578, 1745, 1749, 2459, **2469**, 2822
Conductivity sensor, secondary (SBE 4C, 3400m, 6800m)	S/N	199, 200, 618, 856, **864**, 1446, 1578, 1745, 1749, 2459, 2469, 2822
Pump, primary (SBE 5T, 10500m, 3000RPM)	S/N	1413, 1595, 1596, 2237, 2238, 2825, **2892**
Pump, secondary (SBE 5T, 10500m, 3000RPM)	S/N	1413, 1595, 1596, 2237, 2238, **2825**, 2892, none
Oxygen sensor, primary (SBE 13, SBE 23, SBE 43, 6800m)	S/N	430343,0345, 0348,**0372 (02-Feb-06p)**, none
Oxygen sensor, secondary (SBE 13, SBE 23, SBE 43, 6800m)	S/N	**430343 (14-Mar-06p)**,0345, 0348,0372, none
Fluorometer (Sea Tech flashlamp, WET Labs EcoFluor, 3000m, 6000m)	S/N	30S (stopped working at beginning of EN400), **231 (09-Feb-05)**, none
Transmissometer (WET Labs C-Star, 25 cm path, 6000m)	S/N	CST-399DR, **CST-480DR (08-Apr-06),** CST-593DR, none
Altimeter (Benthos PSA-916, 2500m)	S/N	1017(newNov-02),**1075 (new 22-Oct-03,CTD001 only) none**
Light sensor PAR, QSP-200L4S/2300 (Biospherical, 1000m)	S/N	4479 (07-Jan-05), **4701 (24-Feb-06)**, none
Light sensor, Surface SPAR, QSR-2200 (Biospherical)	S/N	**20121 (24-Feb-06)**, 20190 (new 28-Oct-04), none

Data format (factory & user installed sensors) **See also EN416\CTD\CTDReadMe416.txt**

Frequency 0	temperature, primary 2107	External voltage 3	fluorometer 231
Frequency 1	conductivity, primary 2469	External voltage 4	DO primary 0348
Frequency 2	pressure 80016	External voltage 5	DO secondary 0345
Frequency 3	temperature, secondary 2902	Ext voltage 6	Alt 1075(CTD002), PAR 4701(CTDs 4&14), FGP0(CTDs 3,8,12,17-19) spare all others
Frequency 4	conductivity, secondary 0864	Ext voltage 7	PAR 4701(CTD002), FGP1(CTDs 3,8,12,17-19), spare all others
External voltage 0	transmissometer 480DR	External voltage 8	spare
External voltage 1	spare	External voltage 9	SPAR 20121
External voltage 2	spare		

Carousel pylon, rosette, levers		GO, SBE	S/N	**3210573-0048**, 3216020-0175, shiny, **dull**, none
Frame w/ s/s cage				12 pl SBE alum, 12 pl s/s, **24pl SBE alum**, bk1, bk2
Niskins	# on frame: **24**	1.5, 5, **10**, 30 **L**		Go-Flo, **Ext resist OTE / GO**, Internal resist, none
Winch / wire	#	**1 in alum**, 1out steel, 2, 3, Scanfish /		**.322"**, .500", .680", 3/8", ½", 9/16"
Slip Rings (**Meridian**, Focal)			**S/N**	6.859, 8.538 (10wire), 8.594, Focal1801308, none
Pinger (Williams)			S/N	W1, W2, W3, **none**
(Benthos 2216, 12000m)			S/N	1237, **none**

Note for SBE 9plus CTD underwater unit S/N 12293-0444, 0523 & 0607:

CTDs 0444, 0523, and 0607 were supplied with an isolated 12-volt power source for a Sea Tech fluorometer in a 3000 meter stainless steel housing. When this fluorometer is used it must be installed on connector JT2 (see drawing 50077). This will put the fluorometer output on A/D channel 1 (External Voltage 1).

Underwater unit S/N 9P16940-0607, as of x x 2000:

Pressure sensor range		0-10,000 psia, 0-6885 d-Bar
pressure sensor, Digiquartz (with temp comp, SBE)	S/N	80016
Modulo	S/N	MOD12P-439
AD590M (enter in Seacon)		0.012837, , .0128452
AD590B (enter in Seacon)		-9.963864, -8.66958
A/D Input Voltage Range		0 to 5 volts DC

Logic Board EPROM	Version 1.0	
Modem Interface NOT installed		
NO Modem Board Microcontroller	Version 2.0A, Version 1.1	P/N N/A, 11124, 11194
Isolated Fluorometer Power Interface NOT Installed		