

VESSEL: USCGC Healy		CRUISE: HY-01-03		PROJECT & LEG: ALTEX AUV Test Cruise		STATION DESIGNATION:																					
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(mb)			(deg)	(m/s)					(m)						
001	181	25	111	N	36	59	8	2	E	11	09	27	01	04	58	-3	9	1004	3	15	46			0220			
SBE 911+ SN		638		TIMES		JD/TIME		DATA		REMARKS																	
PRESS SN		83009		DATA ON		4:46 AM		File Name		collecting																	
PRI TEMP SN		2796		START DOWN		4:47 AM		Hly0103CTD01.dat		sample label may be faint on first nutrient set																	
SEC TEMP SN		2824		AT DEPTH		4:58 AM				* lat + long is taken at start of bottom of cast																	
PRI COND SN		2545		AT SURFACE		5:15				<input type="checkbox"/> Cleaned air bleed valve																	
SEC COND SN		2568								Fluor. SN		88233															
POS. TRIP DEPTH										Trans. SN		CST-390DR															
										Oxygen S/N		130583															
												CTD CONVERTED MONITOR VALUES															

VESSEL: USCGC Healy		CRUISE: HY-01-03		PROJECT & LEG: ALTEX AUV Test Cruise		STATION DESIGNATION:	
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD= 284	
DEG	MIN	DEG	MIN	DAY	MO	YR	
002	81.25	30	55.90	11	09	01	
SBE 911+ SN 638		JD/TIME		DATA			
PRESS SN 83009		DATA ON		File Name			
PRI TEMP SN 2796		START DOWN		Hy0103CID02.			
SEC TEMP SN 2824		AT DEPTH		dat			
PRI COND SN 2545		AT SURFACE					
SEC COND SN 2568		Oxygen S/N 130583		Trans. S/N		CST-390DR	
POS. TRIP DEPTH				Fluor. S/N		BB233	
				CTD CONVERTED MONITOR VALUES			
	PRES. (dbar)	PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SAMPLE BOTTLE DATA	
						SALINITY	SAMPLE BOTTLE NUMBER
1	291	18.16	18.16	34.888	34.893		
2	291	18.16	18.16	34.887	34.894		
3	198	20.187	2.151	34.901	34.908		
4	198	20.049	2.151	34.902	34.908		
5	150	151.077	2.863	34.946	34.952		
6	150	151.046	2.867	34.946	34.953		
7	109	100.907	3.690	34.925	34.931		
8	100	100.930	3.111	34.927	34.935		
9	49	49.905	1.853	34.695	34.695		
10	49	49.618	1.837	34.689	34.696		
11	20	20.189	1.845	34.297	34.322		
12	20	20.137	2.358	34.346	34.351		
13	1	150.3	-1.575	33.495	33.502	33.5182175	2
14	1	148.7	-1.584	33.497	33.502		
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

VESSEL: USCGC Healy		CRUISE: surface		PROJECT & LEG: ALTEX AUV Test Cruise		STATION DESIGNATION:																							
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD= 284		TIME (GMT)		WET BULB		PRESSURE		SEA STATE		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID			
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(mb)				(deg)	(m/s)					(m)							
81	33.12	N	30	39.00	E	11	01	01	11	19	-3.9	-5.0	1006			090	9.3					11	98						
SBE 911+ SN		638		TIMES		JD/TIME		DATA		DRY BULB		WET BULB		PRESSURE		SEA STATE		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
PRESS SN		83009		DATA ON		10:47 AM		File Name		hy0103C1003		WET BULB		PRESSURE		SEA STATE		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
PRI TEMP SN		2796		START DOWN		10:49 AM		DATA		DRY BULB		WET BULB		PRESSURE		SEA STATE		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
SEC TEMP SN		2824		AT DEPTH		11:19 AM		DATA		DRY BULB		WET BULB		PRESSURE		SEA STATE		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
PRI COND SN		2545		AT SURFACE		11:55 AM		DATA		DRY BULB		WET BULB		PRESSURE		SEA STATE		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
SEC COND SN		2568		AT SURFACE		11:55 AM		DATA		DRY BULB		WET BULB		PRESSURE		SEA STATE		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
POS. TRIP DEPTH		30		Oxygen S/N		130583		Trans. S/N		CST-390DR		Fluor. S/N		88233		SEA STATE		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
CTD CONVERTED MONITOR VALUES		PRES. (dbar)		PRI. TEMP. (°C)		SEC. TEMP. (°C)		PRI. SAL.		SEC. SAL.		SALINITY		SAL.		NUTR.		OXY.		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAMPLE BOTTLE NUMBER		SAMPLE BOTTLE NUMBER			
1	986	1000.017	-1.324	-1.322	34.900	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	
2	989	1002.392	-1.322	-1.326	34.901	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	34.907	
3	741	750.907	-1.326	-1.328	34.909	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	
4	741	750.476	-1.328	-1.328	34.909	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	
5	543	549.813	-1.239	-1.242	34.940	34.946	34.946	34.946	34.946	34.946	34.946	34.946	34.946	34.946	34.946	34.946	34.946	34.946	34.946	34.946	34.946	34.946	34.946	34.946	34.946	34.946	34.946	34.946	
6	543	550.048	-1.252	-1.258	34.941	34.947	34.947	34.947	34.947	34.947	34.947	34.947	34.947	34.947	34.947	34.947	34.947	34.947	34.947	34.947	34.947	34.947	34.947	34.947	34.947	34.947	34.947	34.947	
7	402	498.236	-1.608	-1.606	34.960	34.967	34.967	34.967	34.967	34.967	34.967	34.967	34.967	34.967	34.967	34.967	34.967	34.967	34.967	34.967	34.967	34.967	34.967	34.967	34.967	34.967	34.967	34.967	
8	402	498.385	-1.609	-1.611	34.962	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	
9	395	391.301	-2.045	-2.042	34.968	34.975	34.975	34.975	34.975	34.975	34.975	34.975	34.975	34.975	34.975	34.975	34.975	34.975	34.975	34.975	34.975	34.975	34.975	34.975	34.975	34.975	34.975	34.975	
10	395	399.304	-2.032	-2.033	34.968	34.974	34.974	34.974	34.974	34.974	34.974	34.974	34.974	34.974	34.974	34.974	34.974	34.974	34.974	34.974	34.974	34.974	34.974	34.974	34.974	34.974	34.974	34.974	
11	297	300.283	-2.361	-2.361	34.959	34.965	34.965	34.965	34.965	34.965	34.965	34.965	34.965	34.965	34.965	34.965	34.965	34.965	34.965	34.965	34.965	34.965	34.965	34.965	34.965	34.965	34.965	34.965	
12	297	300.786	-2.368	-2.369	34.960	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	34.968	
13	197	199.995	-2.645	-2.644	34.949	34.955	34.955	34.955	34.955	34.955	34.955	34.955	34.955	34.955	34.955	34.955	34.955	34.955	34.955	34.955	34.955	34.955	34.955	34.955	34.955	34.955	34.955	34.955	
14	197	191.641	-2.621	-2.628	34.948	34.953	34.953	34.953	34.953	34.953	34.953	34.953	34.953	34.953	34.953	34.953	34.953	34.953	34.953	34.953	34.953	34.953	34.953	34.953	34.953	34.953	34.953	34.953	
15	148	149.506	-2.553	-2.554	34.913	34.919	34.919	34.919	34.919	34.919	34.919	34.919	34.919	34.919	34.919	34.919	34.919	34.919	34.919	34.919	34.919	34.919	34.919	34.919	34.919	34.919	34.919	34.919	
16	148	144.775	-2.563	-2.563	34.913	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	34.917	
17	98	98.593	-1.735	-1.724	34.763	34.766	34.766	34.766	34.766	34.766	34.766	34.766	34.766	34.766	34.766	34.766	34.766	34.766	34.766	34.766	34.766	34.766	34.766	34.766	34.766	34.766	34.766	34.766	
18	98	99.165	-1.892	-1.737	34.757	34.780	34.780	34.780	34.780	34.780	34.780	34.780	34.780	34.780	34.780	34.780	34.780	34.780	34.780	34.780	34.780	34.780	34.780	34.780	34.780	34.780	34.780	34.780	
19	48	48.739	-1.310	-1.303	34.402	34.402	34.402	34.402	34.402	34.402	34.402	34.402	34.402	34.402	34.402	34.402	34.402	34.402	34.402	34.402	34.402	34.402	34.402	34.402	34.402	34.402	34.402	34.402	
20	48	48.947	-1.338	-1.301	34.399	34.399	34.399	34.399	34.399	34.399	34.399	34.399	34.399	34.399	34.399	34.399	34.399	34.399	34.399	34.399	34.399	34.399	34.399	34.399	34.399	34.399	34.399	34.399	
21	17	17.665	-1.584	-1.589	33.353	33.353	33.353	33.353	33.353	33.353	33.353	33.353	33.353	33.353	33.353	33.353	33.353	33.353	33.353	33.353	33.353	33.353	33.353	33.353	33.353	33.353	33.353	33.353	
22	18	17.933	-1.597	-1.598	33.347	33.347	33.347	33.347	33.347	33.347	33.347	33.347	33.347	33.347	33.347	33.347	33.347	33.347	33.347	33.347	33.347	33.347	33.347	33.347	33.347	33.347	33.347	33.347	
23	1	1.347	-1.906	-1.906	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	
24	1	1.243	-1.905	-1.905	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	33.205	

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VESSEL: USCGC Healy		CRUISE: HY-01-03		PROJECT & LEG: ALTEX AUV Test Cruise		STATION DESIGNATION:	
start 81-50.6 N		start 30-07.0 E		DATE JD= 284			
LONGITUDE		DATE		TIME (GMT)			
DEG MIN		DAY MO YR		HR MIN			
006		E 11 OCT 01					
LATITUDE		JD/TIME		TIME (GMT)			
DEG MIN		7:45 pm		HR MIN			
006		7:48 pm					
CONSC CAST #		LONGITUDE		TIME (GMT)			
006		DEG MIN		HR MIN			
SBE 911+ SN 638		DATE		TIME (GMT)			
PRESS SN 83009		DATA ON		HR MIN			
PRI TEMP SN 2796		START DOWN		HR MIN			
SEC TEMP SN 2824		AT DEPTH		HR MIN			
PRI COND SN 2545		AT SURFACE		HR MIN			
SEC COND SN 2568		Oxygen S/N 130583		Trans. S/N CST-390DR			
POS. TRIP DEPTH		Oxygen S/N 130583		Trans. S/N CST-390DR			
1		Oxygen S/N 130583		Trans. S/N CST-390DR			
3		Oxygen S/N 130583		Trans. S/N CST-390DR			
5		Oxygen S/N 130583		Trans. S/N CST-390DR			
7		Oxygen S/N 130583		Trans. S/N CST-390DR			
9		Oxygen S/N 130583		Trans. S/N CST-390DR			
11		Oxygen S/N 130583		Trans. S/N CST-390DR			
13		Oxygen S/N 130583		Trans. S/N CST-390DR			
15		Oxygen S/N 130583		Trans. S/N CST-390DR			
17		Oxygen S/N 130583		Trans. S/N CST-390DR			
19		Oxygen S/N 130583		Trans. S/N CST-390DR			
21		Oxygen S/N 130583		Trans. S/N CST-390DR			
23		Oxygen S/N 130583		Trans. S/N CST-390DR			
25		Oxygen S/N 130583		Trans. S/N CST-390DR			
27		Oxygen S/N 130583		Trans. S/N CST-390DR			
29		Oxygen S/N 130583		Trans. S/N CST-390DR			
31		Oxygen S/N 130583		Trans. S/N CST-390DR			
33		Oxygen S/N 130583		Trans. S/N CST-390DR			
35		Oxygen S/N 130583		Trans. S/N CST-390DR			
37		Oxygen S/N 130583		Trans. S/N CST-390DR			
39		Oxygen S/N 130583		Trans. S/N CST-390DR			
41		Oxygen S/N 130583		Trans. S/N CST-390DR			
43		Oxygen S/N 130583		Trans. S/N CST-390DR			
45		Oxygen S/N 130583		Trans. S/N CST-390DR			
47		Oxygen S/N 130583		Trans. S/N CST-390DR			
49		Oxygen S/N 130583		Trans. S/N CST-390DR			
51		Oxygen S/N 130583		Trans. S/N CST-390DR			
53		Oxygen S/N 130583		Trans. S/N CST-390DR			
55		Oxygen S/N 130583		Trans. S/N CST-390DR			
57		Oxygen S/N 130583		Trans. S/N CST-390DR			
59		Oxygen S/N 130583		Trans. S/N CST-390DR			
61		Oxygen S/N 130583		Trans. S/N CST-390DR			
63		Oxygen S/N 130583		Trans. S/N CST-390DR			
65		Oxygen S/N 130583		Trans. S/N CST-390DR			
67		Oxygen S/N 130583		Trans. S/N CST-390DR			
69		Oxygen S/N 130583		Trans. S/N CST-390DR			
71		Oxygen S/N 130583		Trans. S/N CST-390DR			
73		Oxygen S/N 130583		Trans. S/N CST-390DR			
75		Oxygen S/N 130583		Trans. S/N CST-390DR			
77		Oxygen S/N 130583		Trans. S/N CST-390DR			
79		Oxygen S/N 130583		Trans. S/N CST-390DR			
81		Oxygen S/N 130583		Trans. S/N CST-390DR			
83		Oxygen S/N 130583		Trans. S/N CST-390DR			
85		Oxygen S/N 130583		Trans. S/N CST-390DR			
87		Oxygen S/N 130583		Trans. S/N CST-390DR			
89		Oxygen S/N 130583		Trans. S/N CST-390DR			
91		Oxygen S/N 130583		Trans. S/N CST-390DR			
93		Oxygen S/N 130583		Trans. S/N CST-390DR			
95		Oxygen S/N 130583		Trans. S/N CST-390DR			
97		Oxygen S/N 130583		Trans. S/N CST-390DR			
99		Oxygen S/N 130583		Trans. S/N CST-390DR			
101		Oxygen S/N 130583		Trans. S/N CST-390DR			
103		Oxygen S/N 130583		Trans. S/N CST-390DR			
105		Oxygen S/N 130583		Trans. S/N CST-390DR			
107		Oxygen S/N 130583		Trans. S/N CST-390DR			
109		Oxygen S/N 130583		Trans. S/N CST-390DR			
111		Oxygen S/N 130583		Trans. S/N CST			

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VESSEL: USCGC Healy		CRUISE: HY-01-03		PROJECT & LEG: ALTEX AUV Test Cruise		STATION DESIGNATION: STATION #8	
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD= 285	
DEG	MIN	DEG	MIN	DAY	MO	YR	
00782	00.94 N	29	44.76 E	12	06	01	
SBE 911+ SN 638		TIMES		JD/TIME		DATA	
PRESS SN 83009		DATA ON		1:06		File Name	
PRI TEMP SN 2796		START DOWN		1:06		hy013CTD007.DAT	
SEC TEMP SN 2824		AT DEPTH		2:14 AM			
PRI COND SN 2545		AT SURFACE		3:24 AM			
SEC COND SN 2568		Oxygen SN 130583		Trans. SN 130573		CST-390DR	
POS.		INTENDED TRIP DEPTH		CTD CONVERTED MONITOR VALUES			
		PRES. (dbar)	PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SAMPLE BOTTLE DATA
1	3000	2995.3	-0.768	-0.768	34.929	34.935	SALINITY
2	X						SAL.
3	2000	1997.220	-0.774	-0.774	34.914	34.920	7
4	X						61
5	1000	1002.947	-0.281	-0.282	34.900	34.907	62
6	X						63
7	750	750.284	-0.330	-0.330	34.904	34.911	64
8	X						65
9	500	498.900	1.601	1.602	34.945	34.952	66
10	X						67
11	400	400.350	1.996	1.996	34.958	34.965	68
12	X						69
13	300	300.216	2.211	2.210	34.947	34.953	70
14	X						71
15	200	200.204	2.404	2.402	34.932	34.938	72
16	X						
17	150	150.751	2.208	2.207	34.888	34.896	
18	X						
19	100	99.864	1.612	1.620	34.776	34.777	
20	X						
21	50	50.054	-1.887	-1.884	34.400	34.407	
22	X						
23	SURFACE	1-781	-1.683	-1.643	32.989	32.993	
24	X						

VESSEL: USCGC Healy		CRUISE: HY-01-03		PROJECT & LEG: ALTEX AUV Test Cruise		STATION DESIGNATION: <u>Station 9</u>													
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= <u>285</u>		TIME (GMT)		DRY BULB (°C)	DEW POINT (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR											
0088206.918	N	29	33.47	E	12	01	01	05	31	-1.1	-1.1	1007			130	2.9		3496	
REMARKS <u>1.5 KT DRIFT</u> <u>Bottle 8 Fused Accidentally - Iwore</u>																			
DATA File Name <u>h\0103.CTD08.DAT</u>																			
TIMES DATA ON <u>4:21 AM</u> START DOWN <u>4:21 AM</u> AT DEPTH <u>5:31 AM</u> AT SURFACE <u>6:42 AM</u>																			
SBE 911+ SN 638 PRESS SN 83009 PRI TEMP SN 2796 SEC TEMP SN 2824 PRI COND SN 2545 SEC COND SN 2568 <input checked="" type="checkbox"/> Oxygen S/N <u>130573</u> <input type="checkbox"/> Trans. S/N <u>88233</u> <input type="checkbox"/> Fluor. S/N <u>88233</u> <input type="checkbox"/> Cleaned air bleed valve																			
CTD CONVERTED MONITOR VALUES																			
POS.	INTENDED TRIP DEPTH	PRES. (dbar)	PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL	SEC. SAL	SALINITY	SAL	NUTR.	OXY.									
1	3000	2983.3	-0.769	-0.768	34.929	34.934			73										
2	2000	1996.94	-0.777	-0.777	34.914	34.920			74										
3	1000	1005.00	-0.267	-0.261	34.900	34.907			75										
4	750	750.10	0.347	0.340	34.900	34.907			76										
5	500	504.83	1.483	1.484	34.938	34.944			77										
6	400	402.70	1.795	1.796	34.939	34.945			78										
7	300	301.57	2.147	2.138	34.942	34.949			79										
8	200	201.427	2.255	2.255	34.925	34.928			80										
9	150	150.149	2.311	2.294	34.907	34.909			81										
10	100	98.727	2.404	2.404	34.869	34.874			82										
11	50	50.215	-0.823	-0.821	34.434	34.436			83										
12	SFC	4.002	-1.775	-1.776	33.087	33.088	33.094672	8	84										

[illegible]

[illegible]

VESSEL: USCGC Healy		CRUISE: HY-01-03		PROJECT & LEG: ALTEX AUV Test Cruise		STATION DESIGNATION: POLAR BEAR															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	DEW POINT	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
DEG	MIN	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	(%)	(m)				
0118237	64	N	1110	70	E	16	OCT	01	14	24	-1.1		1012		120	1.7		1700			
REMARKS: Use 2° temp + sal data 1 noticed divergence w/ primary salinity temp. At 2:22 - resumed Normality * 5 may be warmer since we pulled warm Cleaned air bleed valve H <sub>2</sub> O up																					
DATA File Name: ctdoil.dat SBE 911+ SN: 638 PRESS SN: 83009 PRI TEMP SN: 2796 SEC TEMP SN: 2824 PRI COND SN: 2545 SEC COND SN: 2568																					
TIMES DATA ON: 2:14 pm START DOWN: 2:15 pm AT DEPTH: 2:24 pm AT SURFACE: 2:38 pm																					
CTD CONVERTED MONITOR VALUES <input checked="" type="checkbox"/> Oxygen S/N 100508 30573 <input checked="" type="checkbox"/> Trans. S/N CST-390DR 88233 <input checked="" type="checkbox"/> Fluor. S/N																					
POS.	INTENDED TRIP DEPTH	PRES. (dbar)	PRI. TEMP. (°C)	SEC. TEMP. (°C)	PRI. SAL.	SEC. SAL.	SALINITY	SAL.	NUTR.	OXY.	SAMPLE BOTTLE DATA									SAMPLE BOTTLE NUMBER	
1	200	201.281	1.887	1.887	34.878	34.878			85	1A											
2																					
3																					
4																					
5	100	19.431	1.596	1.595	34.584	34.591			86	3A											
6																					
7																					
8																					
9																					
10																					
11	40	40.484	-1.760	-1.760	33.661	33.661			87	5A											
12																					
13																					
14																					
15																					
16	20	20.279	-1.785	-1.783	33.644	33.650			88	43											
17																					
18																					
19																					
20																					
21	5	4.792	-1.792	-1.795	33.638	33.645			89	47											
22																					
23																					
24																					

9.10.11.12 CTD 012A.dat

VESSEL: USCGC Healy		CRUISE: HY-01-03		PROJECT & LEG: ALTEX AUV Test Cruise		STATION DESIGNATION:																									
CONSC CAST #		End: 82°33'42"N		End: 11°57'34"E		DATE JD= 290		TIME (GMT)		DRY BULB (°C)		DEW POINT (°C)		PRESSURE (mb)		SEA STATE		VISIBILITY		WIND DIRN. (deg)		WIND SPD. (m/s)		CLOUD (amt)		WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID	
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	°C	°C	(mb)							(deg)	(m/s)			(m)							
01	28	33	42	01	57	17	10	2011	16	11	-10.5		10.0							200.6			0918								
REMARKS: Some weird spikes @ 800 meters pressure decreased																															
DATA																															
File Name CTD012.DAT																															
Cleaned air bleed valve																															
Fluor. SN 88233																															
CST-390DR																															
CTD CONVERTED MONITOR VALUES																															
POS.	INTENDED TRIP DEPTH	PRES. (dbar)	PRI. TEMP. (°C)	SEC. TEMP. (°C)	PRI. SAL.	SEC. SAL.	SALINITY		SAL.		NUTR.		OXY.																		
1	900	894.189	-1.767	-1.767	34.898	34.905					90		6																		
2	750	750.505	-1.649	-1.649	34.895	34.903					91		8																		
3	500	500.811	-1.268	-1.268	34.903	34.911					92		10																		
4	400	400.682	-1.932	-1.945	34.919	34.926					93		11																		
5	300	300.379	-1.564	-1.564	34.929	34.937					94		13																		
6	200	200.284	-1.880	-1.880	34.901	34.909					95		14																		
7	150	150.780	-1.625	-1.625	34.812	34.820					96		15																		
8	100	100.602	-1.275	-1.275	34.705	34.712					97		17																		
9	50	50.022	-1.502	-1.499	34.149	34.157					98		18																		
10	20	19.800	-1.755	-1.756	34.548	34.554					99		53																		
11	5	5.561	-1.768	-1.768	34.548	34.553					100		54																		
12																															
13																															
14																															
15																															
16																															
17																															
18																															
19																															
20																															
21																															
22																															
23																															
24																															

[illegible]



VESSEL: USCGC Healy						CRUISE: HY-01-03						PROJECT & LEG: ALTEX AUV Test Cruise						STATION DESIGNATION:													
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		DEW POINT		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	(m)											
S: 81	41.97 N	E:	S: 12	55.19 E	E:	013	01	.62 E	19	07	01	17	39	-1.1	1012	200	3.4														
REMARKS																															
DATA																															
File Name CTD014.dat																															
Cleaned air bleed valve																															
Fluor. S/N 88233																															
CTD CONVERTED MONITOR VALUES																															
Oxygen S/N 130583 Trans. S/N CST-390DR																															
SEC COND SN 2568																															
POS. INTENDED TRIP DEPTH																															
1	1910	PRES. (dbar)	1907	PRI. TEMP. (°C)	-0.820	SEC. TEMP. (°C)	-0.819	PRI. SAL.	34.918	SEC. SAL.	34.925	SALINITY		SAL.		NUTR.	OXY.														
2																															
3	1500		1497		-0.783		-0.783		34.903		34.911																				
4																															
5	1000		1002.571		-1.423		-1.423		34.899		34.907																				
6																															
7	750		757.083		1.149		1.149		34.897		34.906																				
8																															
9	500		503.196		1.166		1.167		34.939		34.947																				
10																															
11	400		401.764		1.932		1.932		34.953		34.961																				
12																															
13	300		300.368		2.241		2.242		34.949		34.957																				
14																															
15	200		202.708		2.552		2.549		34.939		34.948																				
16																															
17	150		151.560		2.406		2.406		34.890		34.899																				
18																															
19	100		101.9		1.492		1.492		34.737		34.744																				
20																															
21	50		50.0		-1.4030		-1.432		34.370		34.378																				
22																															
23	20		19.8		-1.821		-1.821		34.428		34.433																				
24	5		5.136		-1.820		-1.819		34.427	X	34.433	*334388742	14																		



[illegible]

JS-90-temp sensor

VESSEL:		CRUISE:		PROJECT & LEG:		STATION DESIGNATION:						
USCGC Healy		HY-01-03		ALTEX AUV Test Cruise		Overshoot						
CONSC CAST #	S: 82 01.14 N E: 82 00.51 N	DATE JD=	TIME (GMT)	DRY BULB	DEW POINT	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
016	82 00.84 N	11 12.24 E	21 13-13.3	21.11	19.8	1	320	4.6			1067	
REMARKS												
SBE 911+ SN 638												
PRESS SN 83009												
PRI TEMP SN 2796												
SEC TEMP SN 2824												
PRI COND SN 2545												
SEC COND SN 2568												
Oxygen S/N 130573												
Trans. S/N 88233												
CST-390DR												
Cleaned air bleed valve												
CTD CONVERTED MONITOR VALUES												
POS.	INTENDED TRIP DEPTH	PRES. (dbar)	PRI. TEMP. (°C)	SEC. TEMP. (°C)	PRI. SAL.	SEC. SAL.	SALINITY		SAL.		NUTR.	OXY.
1												
2	1000	1000.9	-0.599	-0.599	34.887	34.905					138	1A
3												
4	750	749.4	-0.350	-0.351	34.898	34.906					139	5A
5												
6	500	500.9	0.734	0.734	34.923	34.929					140	25
7												
8	400	400.9	1.325	1.325	34.937	34.945					141	27
9												
10	300	300.5	1.782	1.777	34.931	34.939					142	36
11												
12	200	201.1	2.077	2.077	34.895	34.902					143	38
13												
14	150	151.2	1.601	1.605	34.787	34.795					144	39
15												
16	100	100.8	0.321	0.312	34.588	34.594					145	40
17												
18	50	49.8	-1.320	-1.320	34.324	34.320					146	41
19												
20	20	39.1	-1.117	-1.117	34.226	34.238					147	43
21												
22	5	3.9	-1.810	-1.807	34.515	34.221					148	47
23												
24												

69.80  
69.8  
72.2  
73,  
73.4  
73.2  
73.2  
73.1  
75.27  
76.2  
79.3

VESSEL: USCGC Healy			CRUISE: HY-01-03			PROJECT & LEG: ALTEX AUV Test Cruise			STATION DESIGNATION:																							
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD= 294			TIME (GMT)		DRY BULB		DEW POINT		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(°C)	(mb)						(deg)	(m/s)			(m)								
0178	148.78	N	14	38.6	E	21	OCT	01	12	10	-13.9			998						350	5.1			2157								
S: 81°49.57N E: 81°48'12"			S: 14°42.77" E: 14°35'47"																													
SBE 911+ SN 638			TIMES			JD/TIME			DATA																							
PRESS SN 83009			DATA ON			11:14			File Name																							
PRI TEMP SN 2796			START DOWN			11:14			CTD017.DAT																							
SEC TEMP SN 2824			AT DEPTH			12:10																										
PRI COND SN 2545			AT SURFACE			1:00 PM																										
SEC COND SN 2568																																
POS. INTENDED TRIP DEPTH																																
1			2157.0			-805			-805			34.919			34.926			34.9293595			17			149			120					
2																																
3			1998.2			-810			-810			34.917			34.924									150			1					
4																																
5			1000.6			-835			-835			34.898			34.905									151			6					
6			1002.8			-837			-837			34.897			34.905												8					
7			750.7			-115			-115			34.891			34.900									152			10					
8																																
9			500.2			1161			1162			34.913			34.920									153			11					
10																																
11			399.5			1173			1174			34.939			34.948									154			13					
12																																
13			299.4			2.007			2.007			34.918			34.925									155			14					
14																																
15			201.1			2.218			2.218			34.889			34.897									156			15					
16																																
17			149.7			1.773			1.773			34.803			34.810									157			17					
18																																
19			99.5			-467			-467			34.513			34.522									158			18					
20																																
21			50.00			-1.696			-1.696			34.354			34.360									159			49					
22			50.06			-1.685			-1.685			34.352			34.358												53					
23			1.0			-1.830			-1.830			33.806			33.813									160			54					

VESSEL:		CRUISE:		PROJECT & LEG:		STATION DESIGNATION:																									
USCGC Healy		HY-01-03		ALTEX AUV Test Cruise																											
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=294		TIME (GMT)		DRY BULB		DEW POINT		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
01881		38.57 N		1520.18 E		21 OCT 01		1635-15.6						1003						35574						1967					
SBE 911+ SN		638		JD/TIME		DATA		File Name																							
PRESS SN		83009		3:29 PM		CTD018.DAT																									
PRI TEMP SN		2796		3:33 PM																											
SEC TEMP SN		2824		4:35 PM																											
PRI COND SN		2545		5:41 PM																											
SEC COND SN		2568																													
POS. INTENDED TRIP DEPTH																															
1		5FC		1.9		-1.586		-1.582		33.404		33.410		33.416		33.416		33.416		33.416		33.416		33.416		33.416		33.416		33.416	
2		64m		1967.2		-1.772		-1.772		34.909		34.915		34.921		34.927		34.933		34.939		34.945		34.951		34.957		34.963		34.969	
3																															
4		1500		1501.8		-1.720		-1.720		34.906		34.913		34.919		34.925		34.931		34.937		34.943		34.949		34.955		34.961		34.967	
5																															
6		1000		1000.2		-1.333		-1.333		34.898		34.905		34.911		34.917		34.923		34.929		34.935		34.941		34.947		34.953		34.959	
7		1000		1011.5		-1.345		-1.345		34.899		34.905		34.911		34.917		34.923		34.929		34.935		34.941		34.947		34.953		34.959	
8		750		751.12		-1.273		-1.273		34.903		34.909		34.915		34.921		34.927		34.933		34.939		34.945		34.951		34.957		34.963	
9																															
10		500		506.5		1.339		1.331		34.929		34.935		34.941		34.947		34.953		34.959		34.965		34.971		34.977		34.983		34.989	
11																															
12		400		404.4		1.854		1.856		34.948		34.954		34.960		34.966		34.972		34.978		34.984		34.990		34.996		35.002		35.008	
13																															
14		300		300.4		2.239		2.171		34.939		34.945		34.951		34.957		34.963		34.969		34.975		34.981		34.987		34.993		34.999	
15																															
16		200		203.7		2.369		2.369		34.916		34.922		34.928		34.934		34.940		34.946		34.952		34.958		34.964		34.970		34.976	
17																															
18		150		150.6		2.207		2.204		34.852		34.858		34.864		34.870		34.876		34.882		34.888		34.894		34.900		34.906		34.912	
19																															
20		100		100.8		1.039		1.036		34.670		34.676		34.682		34.688		34.694		34.700		34.706		34.712		34.718		34.724		34.730	
21																															
22		50		50.4		-1.576		-1.130		34.369		34.375		34.381		34.387		34.393		34.399		34.405		34.411		34.417		34.423		34.429	
23																															
24		50		53.3		-1.563		-1.572		34.379		34.385		34.391		34.397		34.403		34.409		34.415		34.421		34.427		34.433		34.439	

OXY

7.7

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VESSEL: USCGC Healy		CRUISE: HY-01-03		PROJECT & LEG: ALTEX AUV Test Cruise		STATION DESIGNATION: Winchless																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		DEW POINT		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(°C)	(mb)								(deg)	(m/s)			(m)							
S: 81 2995 N E:		S: 15 20.29 E E:		22 OCT 01		16 40		-18.3		1014										315		3.9				243		33			
01981		29.01 N		23.28 E		16 40		-18.3		1014										315		3.9				243		33			
SBE 911+ SN		638		JD/TIME		DATA		REMARKS																							
PRESS SN		83009		DATA ON		File Name		ctd 019.dat																							
PRI TEMP SN		2796		START DOWN																											
SEC TEMP SN		2824		AT DEPTH																											
PRI COND SN		2545		AT SURFACE																											
SEC COND SN		2568																													
POS. INTENDED TRIP DEPTH																															
1																															
2		2000		2000.9		-808		-808		34.913		34.913		34.913		34.913		34.913		34.913		34.913		34.913		34.913		34.913		34.913	
3																															
4		1500		1499.3		-724		-724		34.905		34.905		34.905		34.905		34.905		34.905		34.905		34.905		34.905		34.905		34.905	
5																															
6		1000		999.2		-364		-364		34.897		34.897		34.897		34.897		34.897		34.897		34.897		34.897		34.897		34.897		34.897	
7																															
8		750		749.1		1233		1233		34.900		34.900		34.900		34.900		34.900		34.900		34.900		34.900		34.900		34.900		34.900	
9																															
10		500		498.6		1735		1735		34.950		34.950		34.950		34.950		34.950		34.950		34.950		34.950		34.950		34.950		34.950	
11																															
12		400		401.3		2034		2034		34.952		34.952		34.952		34.952		34.952		34.952		34.952		34.952		34.952		34.952		34.952	
13																															
14		300		298.4		2374		2374		34.951		34.951		34.951		34.951		34.951		34.951		34.951		34.951		34.951		34.951		34.951	
15																															
16		200		199.6		2518		2518		34.926		34.926		34.926		34.926		34.926		34.926		34.926		34.926		34.926		34.926		34.926	
17																															
18		150		150.1		2542		2542		34.897		34.897		34.897		34.897		34.897		34.897		34.897		34.897		34.897		34.897		34.897	
19																															
20		100		101.1		1999		1999		34.790		34.790		34.790		34.790		34.790		34.790		34.790		34.790		34.790		34.790		34.790	
21																															
22		50		49.8		792		792		34.424		34.424		34.424		34.424		34.424		34.424		34.424		34.424		34.424		34.424		34.424	
23																															
24		5		4.2		-1306		-1306		33.586		33.586		33.586		33.586		33.586		33.586		33.586		33.586		33.586		33.586		33.586	

O<sub>2</sub> mL

6.6

6.6

6.6

6.7

6.8

6.8

6.8

6.7

6.7

6.7

7.4

7.7



VESSEL: USCGC Healy		CRUISE: HY-01-03		PROJECT & LEG: ALTEX AUV Test Cruise		STATION DESIGNATION: 1013																								
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 295		TIME (GMT)		DRY BULB		DEW POINT		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
DEG	MIN	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN	SEC	(°C)	(mb)	(mb)	(deg)	(m/s)	(m)	(deg)	(m/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	
0208	19	36	N	01	53	7	41	E	22	02	7	01	19	56	17.8															
SBE 911+ SN		638		TIMES		JD/TIME		DATA		File Name		REMARKS		No spikes on dominant.																
PRESS SN		83009		DATA ON		1903								Possible ice in sensors at east																
PRI TEMP SN		2796		START DOWN		1904								start due to collision with ice flow.																
SEC TEMP SN		2824		AT DEPTH		1956								Severe turbulence.																
PRI COND SN		2545		AT SURFACE		2054								Cleaned air bleed valve																
SEC COND SN		2568		Oxygen S/N		130573		Trans. S/N		CST-390DR		Fluor. S/N		88293																
POS.		INTENDED TRIP DEPTH		PRES. (dbar)		PRI. TEMP. (°C)		SEC. TEMP (°C)		PRI. SAL.		SEC. SAL.		SALINITY		SAL.		NUTR.		OXY.		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER						
1																														
2	2000	1992	-0.809	-0.809	34.913	34.919																								
3																														
4	1500	1498	-0.705	-0.705	34.904	34.911																								
5																														
6	1000	1002	-0.363	-0.362	34.897	34.905																								
7																														
8	750	754	0.229	0.229	34.889	34.906																								
9																														
10	500	494	1.777	1.777	34.955	34.970																								
11																														
12	400	399	1.957	1.962	34.943	34.950																								
13																														
14	300	300	2.312	2.317	34.943	34.950																								
15																														
16	200	200	3.007	3.007	34.980	34.986																								
17																														
18	150	150	2.653	2.671	34.923	34.909																								
19																														
20	100	100	2.035	2.039	34.779	34.781																								
21																														
22	50	49	-1.678	-1.678	34.382	34.387																								
23																														
24	5	4	-0.694	-0.690	33.751	33.756																								

02  
W/L  
6.6  
6.6  
6.7  
6.7  
6.8  
6.8  
6.8  
6.7  
6.7  
6.8  
7.6  
7.7

VESSEL:		CRUISE:		PROJECT & LEG:		STATION DESIGNATION:																											
USCGC Healy		HY-01-03		ALTEX AUV Test Cruise																													
CONSC CAST #		5481 11.97 N 515° 54.64 E		E: 81 11.96 N E: 16 03.74 E		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		DEW POINT		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
021 81		11.77 N		15 59.75 E		15 59.75 E		22 OCT 01		23 47-16.7		23 47-16.7		23 47-16.7		1015		33 5		33 5		33 5		33 5		33 5		33 5		33 5		33 5	
SBE 911+ SN		638		TIMES		JD/TIME		DATA		FILE Name		CTD 021.dat		REMARKS		NO SPIKES																	
PRESS SN		83009		DATA ON		23:00																											
PRI TEMP SN		2796		START DOWN		23:01																											
SEC TEMP SN		2824		AT DEPTH		23:47																											
PRI COND SN		2545		AT SURFACE		24:43																											
SEC COND SN		2568		Oxygen S/N		130573		Trans. S/N		CST-390DR		Fluor. S/N		98233		Cleaned air bleed valve																	
POS. INTENDED TRIP DEPTH				CTD CONVERTED MONITOR VALUES																													
1				PRES. (dbar)		PRI. TEMP. (°C)		SEC. TEMP (°C)		PRI. SAL.		SEC. SAL.		SALINITY		SAL.		NUTR.		OXY.													
2		BTM		2144		-0.810		-0.810		34.917		34.923		34.9304416		21		197															
3				2000		-0.816		-0.816		34.915		34.921																					
4				1000.7		-0.471		-0.471		34.897		34.904																					
5				751.3		-0.027		-0.027		34.897		34.905																					
6				500.0		1.5		1.5		34.956		34.964																					
7				400.2		1.840		1.840		34.957		34.958																					
8				299.9		2.229		2.229		34.951		34.958																					
9				200.0		2.775		2.757		34.961		34.968																					
10				150.0		2.947		2.747		34.956		34.964																					
11				100.1		1.207		1.207		34.659		34.666																					
12				50.0		1.441		1.441		34.915		34.921																					
13				3.0		1.397		1.397		34.182		34.187																					
14																																	
15																																	
16																																	
17																																	
18																																	
19																																	
20																																	
21																																	
22																																	
23																																	
24																																	

VESSEL:		CRUISE:		PROJECT & LEG:		STATION DESIGNATION:																							
USCGC Healy		HY-01-03		ALTEX AUV Test Cruise																									
CONSC CAST #		S: 810059 N S: 1606.77 E		E: 80° 59.17 N E: 16° 7.61 E		DATE JD=		TIME (GMT)		DEW POINT		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
0228059.89 N		16 07.49 E		23 02.01		04 30-15.0		1015		34023		1921																	
SBE 911+ SN		638		TIMES		JD/TIME		DATA		REMARKS																			
PRESS SN		83009		DATA ON		3:42		File Name		14 Knot Wimps																			
PRI TEMP SN		2796		START DOWN		3:43		CTD 022.DAT																					
SEC TEMP SN		2824		AT DEPTH		4:30																							
PRI COND SN		2545		AT SURFACE		5:19																							
SEC COND SN		2568		Oxygen S/N		130573		Trans. S/N		CST-390DR		Floor. S/N		88233		Cleaned air bleed valve													
POS.		INTENDED TRIP DEPTH		CTD CONVERTED MONITOR VALUES																									
1		1921.0		-0.808		-0.475		34.910		34.916		SEC. SAL.		SALINITY		SAL.		NUTR.		OXY.									
2		1500.5		-0.771		-0.475		34.901		34.908																			
3		1001.0		-0.475				34.896		34.903																			
4		750.6		0.039		0.034		34.901		34.908																			
5		501.4		1.517		1.506		34.949		34.955																			
6		400.8		2.217		2.221		34.991		35.000																			
7		300.4		2.6877		2.676		35.004		35.009																			
8		200.4		2.662		2.659		34.958		34.945																			
9		150.0		2.570		2.570		34.819		34.905																			
10		99.8		1.490		1.508		34.712		34.722																			
11		50.7		-0.297		-0.297		34.364		34.366																			
12		5.5		-0.803		-0.803		34.468		34.477																			

VESSEL:		CRUISE:		PROJECT & LEG:		STATION DESIGNATION:																									
USCGC Healy		HY-01-03		ALTEX AUV Test Cruise																											
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		DEW POINT		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	(m)	(deg)	(deg)	(m/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	
*S: 40 54.95N E: 80 55.06N		S: 16 19.9E E: 16 19.01E		DATE JD=		TIME (GMT)		DRY BULB		DEW POINT		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID			
023	80	54	95	16	01	2015	07	15	-13.9																						
SBE 911+ SN		638		DATA ON		START DOWN		AT DEPTH		AT SURFACE		Oxygen S/N		Trans. S/N		CST-390DR		Fluor. S/N		88233											
PRESS SN		83009		DATE		FILE NAME																									
PRI TEMP SN		2796		6:37		6:39																									
SEC TEMP SN		2824		7:15 am		7:53 am																									
PRI COND SN		2545																													
SEC COND SN		2568																													
POS.		INTENDED TRIP DEPTH		CTD CONVERTED MONITOR VALUES		PRI. TEMP. (°C)		SEC. TEMP. (°C)		PRI. SAL.		SEC. SAL.		SALINITY		NUTR.		OXY.													
1																															
2	1500	1481.9		-0.723		-0.725		34.900		34.907		34.907		34.913		221		221													
3		1481.8		-0.316		-0.316		34.899		34.904		34.904		34.904		222		222													
4	1000	1491.3		1.451		1.451		34.917		34.924		34.924		34.924		223		223													
5	750	1491.3		1.943		1.943		34.960		34.967		34.967		34.967		224		224													
6	500	1401.2		2.698		2.697		35.013		35.019		35.019		35.019		225		225													
7	400	298.9		3.169		3.170		35.023		35.030		35.030		35.030		226		226													
8	300	199.1		3.592		3.582		35.024		35.031		35.031		35.031		227		227													
9	200	152.9		4.081		4.062		35.045		35.052		35.052		35.052		228		228													
10	150	101.2		4.356		4.357		35.012		35.019		35.019		35.019		229		229													
11	100	50.8		2.967		2.966		34.481		34.493		34.493		34.493		230		230													
12	50	18.6		2.400		2.421		34.363		34.367		34.367		34.367		231		231													
13	20	3.9		2.375		2.370		34.354		34.359		34.359		34.359		232		232													
14	5																														

during downcast

REMARKS really warm H<sub>2</sub>O's near surface during downcast  
(20m @ 2.6°C) on downcast, then 30  
@ 6.0°C 4.6°C @ 80m, then 40 @ 100m after  
a slight decrease stayed around 4°C until 160m  
Cleaned air bleed valve did not duplicate on upcast.

O<sub>2</sub> m/l

6.7

6.7

6.8

6.9

6.9

6.8

6.7

6.7

6.6

7.1

7.2

7.2

STY

VESSEL:		CRUISE:		PROJECT & LEG:		STATION DESIGNATION:	
USCGC Healy		HY-01-03		ALTEX AUV Test Cruise			
CONSC #	LATITUDE		LONGITUDE		DATE JD=		
	DEG	MIN	DEG	MIN	DAY	MO	YR
025	80	45	28	N	12	30	01
	E: 80	45	33	N	E: 16	36	73
	TIME (GMT)		DRY BULB		DEW POINT		
	HR	MIN	°C	°C	°C		
	12	32	-12.8		10.5		
SBE 911+ SN	JDTIME		DATA		REMARKS		
638	1205		File Name		No spikes.		
PRESS SN	DATA ON		SEA STATE		PRESSURE		
83009	1208		3		10.5		
PRI TEMP SN	START DOWN		VISIBILITY		WIND DIRN.		
2796	1232		100%		355		
SEC TEMP SN	AT DEPTH		WIND SPD.		(m/s)		
2824			1.4		0.4		
PRI COND SN	AT SURFACE		CLOUD (amt)		WEATHER		
2545			0		0473		
SEC COND SN	Oxygen S/N		Fluor. S/N		CST-390DR		
2568	533		88233		Cleaned air bleed valve		
INTENDED TRIP DEPTH	CTD CONVERTED MONITOR VALUES						
POS.	PRES. (dbar)	PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SALINITY	SAL.
1	458	3.180	3.174	35.016	35.024	35.0307033	25
2	500						244
3							
4	400	3.471	3.473	35.014	35.021		245
5							
6	300	3.719	3.718	35.013	35.020		246
7							
8	200	4.065	4.062	34.969	34.975		247
9							
10	150	4.058	4.058	34.932	34.939		248
11							
12	100	4.045	4.045	34.872	34.874		249
13							
14	50	3.014	3.014	34.371	34.377		250
15							
16	20	2.422	2.423	34.190	34.192		251
17							
18	5	2.471	2.472	34.177	34.186		252
19							
20							
21							
22							
23							
24							

O<sub>2</sub> ml/l  
6.8  
6.8  
6.7  
6.6  
6.6  
6.6  
7.0  
7.2  
7.2

VESSEL:		CRUISE:		PROJECT & LEG:		STATION DESIGNATION:																								
USCGC Healy		HY-01-03		ALTEX AUV Test Cruise																										
CONSC CAST #	S: 80 44.39 N E 80 44.38 N		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		DEW POINT		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(°C)	(mb)						(deg)	(m/s)					(m)					
026	80	44	39	38	11	23	01	13	41	-13	.3		1015						0400	—				02	11					
SBE 911+ SN		638		TIMES		JD/TIME		DATA		REMARKS																				
PRESS SN		83009		DATA ON		1330		File Name		ctd026.dat		Hysteresis on T45.																		
PRI TEMP SN		2796		START DOWN		1330																								
SEC TEMP SN		2824		AT DEPTH		1341																								
PRI COND SN		2545		AT SURFACE		1359																								
SEC COND SN		2568		Oxygen S/N		130573		Trans. S/N		CST-390DR		Fluor. S/N		88233		Cleaned air bleed valve														
POS. INTENDED TRIP DEPTH				CTD CONVERTED MONITOR VALUES																										
1				PRES. (dbar)		PRI. TEMP. (°C)		SEC. TEMP (°C)		PRI. SAL.		SEC. SAL.		SALINITY		SAL.		NUTR.		OXY.										
2	200			191		3.536		3.535		34.896		35.003						253												
3																														
4	150			150		4.010		4.007		34.940		34.947						254												
5																														
6	100			101		4.022		4.021		34.795		34.802						255												
7																														
8	50			50		3.370		3.378		34.572		34.577						256												
9																														
10	20			20		2.013		2.015		34.181		34.189						257												
11																														
12	5			5		1.783		1.783		34.082		34.088						258												
13																														
14																														
15																														
16																														
17																														
18																														
19																														
20																														
21																														
22																														
23																														
24																														

02 m/h  
6.8  
6.7  
6.7  
7.0  
7.3  
7.4



$O_2$ m%	
6.7	
6.7	
6.7	
6.9	
6.9	
6.8	
6.8	
6.8	
6.9	
7.4	
7.8	

[illegible]

S=30.83  
T=-0.928

VESSEL: USCGC Healy		CRUISE: HY-01-03		PROJECT & LEG: ALTEX AUV Test Cruise		STATION DESIGNATION: T+5 Too Early																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		DEW POINT		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
02981		15.12 N		01823.65 E		27 OCT 01		1437		10416		10416		10437		10448										500					
SBE 911+ SN		638		TIMES		JD/TIME		DATA		REMARKS																					
PRESS SN		83009		DATA ON		10416		File Name		ctd029.dat																					
PRI TEMP SN		2796		START DOWN		10416																									
SEC TEMP SN		2824		AT DEPTH		10437																									
PRI COND SN		2545		AT SURFACE		10448																									
SEC COND SN		2568																													
POS.		INTENDED TRIP DEPTH		Oxygen S/N		130603		Trans. S/N		CST-390DR		Fluor. S/N		88233																	
1				PRES. (dbar)				PRI. TEMP. (°C)		SEC. TEMP (°C)		PRI. SAL.		SEC. SAL.						SALINITY		SAL.		NUTR.		OXY.					
2		5		4.6				-0.906		-0.909		33.807		33.814						33.8312831		29									
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
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22																															
23																															
24																															

94146

[illegible]

[illegible]

VESSEL: USCGC Healy		CRUISE: HY-01-03		PROJECT & LEG: ALTEX AUV Test Cruise		STATION DESIGNATION: ICEE						
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	WET BULB	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
DEG	MIN	DEG	MIN	HR	MIN	(mb)	(deg)	(kt)	(%)	(m)		
032	81 24.89N	15 38.38E	270	22	06					763		
032	81 24.57N	15 41.01E	270	22	06							
REMARKS: Spikes - rubbing against ice? Still differences in up a downcast Pump shot to the right @ 30 meters Cd. different than downcast Cleaned air bleed valve												
DATA: File Name ctd032.d SBE 911+ SN 638 PRESS SN 83009 PRI TEMP SN 2796 SEC TEMP SN 2824 PRI COND SN 2545 SEC COND SN 2568 CTD CONVERTED MONITOR VALUES: Trans. S/N 88233, Fluor. S/N 88233												
POS.	INTENDED TRIP DEPTH	PRES. (dbar)	PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SALINITY	SAL.	NUTR.	OXY.		
1												
2	60	749.2	-1.13	-1.13	34.894	34.904	34.916	32	294	22		
3												
4	900	447.2	1.665	1.665	34.959	34.969			295	23		
5												
6	400	398.2	2.067	2.064	34.971	34.984			296	24		
7												
8	300	299.2	2.927	2.309	34.944	34.950			297	26		
9												
10	200	198.8	3.741	3.391	35.013	35.023			298	35		
11												
12	160	190.5	3.777	3.774	35.030	35.046			299	37		
13												
14	100	106.8	3.849	3.886	34.955	34.970			300	42		
15												
16	50	50.7	4.399	1.395	34.540	34.550			301	50		
17												
18	20	20.6	4.646	1.699	33.844	33.854			302	53		
19												
20	Surface	5.4	4.980	1.990	33.762	33.710			303	54		
21												
22												
23												
24												

REG #1 SURFLES - 6/8/00

[illegible]





[illegible]

VESSEL: USCGC Healy		CRUISE: HY-01-03		PROJECT & LEG: ALTEX AUV Test Cruise		STATION DESIGNATION:																													
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID					
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(mb)	(deg)	(kt)	(m)	(m)	(deg)	(deg)	(kt)	(m)	(m)	(deg)	(deg)	(kt)	(m)	(m)	(deg)	(deg)	(kt)	(m)	(m)				
5:80	56.93N	5:19	46.08E	01	09	07	07	57																											
036	8056.93N	01	19	07	07	07	07	57																											
SBE 911+ SN 638																																	REMARKS		
PRESS SN 83009																																	DATA		
PRI TEMP SN 2796																																	File Name		
SEC TEMP SN 2824																																			
PRI COND SN 2545																																			
SEC COND SN 2568																																			
<input type="checkbox"/> Oxygen S/N 130573 <input type="checkbox"/> Trans. S/N CST-390DR <input type="checkbox"/> Fluor. S/N 88233																																			
CTD CONVERTED MONITOR VALUES																																			
POS.	INTENDED TRIP DEPTH	PRES. (dbar)	PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SALINITY		SAL.		NUTR.		OXY.																						
1																																			
2	100	101.0	4.002	4.003	34.906	34.914	*34.81518		36		329																								
3																																			
4	50	50.1	1.867	1.864	34.219	34.227					330																								
5																																			
6	20	20.0	0.573	0.578	34.012	34.014	*NO DATA																												
7																																			
8	5	5.6	0.573	0.574	34.009	34.016					331																								
9																																			
10																																			
11																																			
12																																			
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02  
(m46)

21.7

23.1

24.6

24.9

[illegible]

VESSEL:		CRUISE:		PROJECT & LEG:		STATION DESIGNATION:	
USCGC Healy		HY-01-03		ALTEX AUV Test Cruise			
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=	
S: 80° 23.8' N E: 80° 23.5' N		5: 12° 26.2' E E: 12° 26.1' E		12 26.08		27 OCT 01	
DEG MIN		DEG MIN		DAY MO YR		TIME (GMT)	
038 80 23.70 N		12 26.08 N		27 OCT 01		23 51	
SBE 911+ SN		638		DATA		REMARKS	
PRESS SN		83009		File Name		Biggest Air Temp. occurred @ 28m	
PRI TEMP SN		2796		11:44 GMT pm		Ctd 038.dzt	
SEC TEMP SN		2824		11:44 GMT			
PRI COND SN		2545		11:51 GMT			
SEC COND SN		2568		12:02 GMT			
Oxygen S/N		130573		Trans. S/N		CST-390DR	
Fluor. S/N		88233		Cleaned air bleed valve			
CTD CONVERTED MONITOR VALUES		PRI. TEMP. (°C)		SEC. TEMP. (°C)		PRI. SAL.	
PRES. (dbar)		4.060		4.061		35.030	
164.0		4.089		4.091		35.031	
150.5		4.849		4.848		35.021	
99.9		3.580		3.536		34.539	
50.1		-1.481		-1.501		33.661	
20.1		-1.519		-1.526		33.643	
5							
13							
14							
15							
16							
17							
18							
19							
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21							
22							
23							
24							

[illegible]

VESSEL:		CRUISE:		PROJECT & LEG:		STATION DESIGNATION:	
USCGC Healy		HY-01-03		ALTEX AUV Test Cruise			
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=	
S: 80 35.49N E: 80 35.06N		S: 12 07.16E E: 12 08.29E					
DEG	MIN	DEG	MIN	DAY	MO	YR	TIME (GMT)
040	8035.26	01	207.75	300	07	01	0800
SBE 911+ SN		638		JD/TIME		DATA	
PRESS SN		83009		0731		File Name	
PRI TEMP SN		2796		0731		CTD 040.0AT	
SEC TEMP SN		2824		0800			
PRI COND SN		2545		AT SURFACE			
SEC COND SN		2568		Oxygen S/N 130573		Fluor. S/N 88233	
POS. INTENDED TRIP DEPTH		CTD CONVERTED MONITOR VALUES					
		PRES. (dbar)	PRI. TEMP. (°C)	SEC. TEMP. (°C)	PRI. SAL.	SEC. SAL.	SAMPLE BOTTLE DATA
							SALINITY
1		1044.8	-5.33	-5.33	34.887	34.897	34.9116
2	807m	750.1	0.023	0.023	34.890	34.899	356
3		499.5	1.855	1.854	34.967	34.977	357
4	750	599.7	2.497	2.500	34.995	35.004	358
5	400	299.8	2.894	2.897	35.006	35.015	359
6	300	199.7	3.443	3.445	35.015	35.025	
7	200	149.7	4.011	4.012	35.040	35.050	360
8	150	96.9	4.250	4.246	35.001	35.008	
9	100	48.7	4.827	4.833	34.920	34.929	361
10	50	19.4	-0.073	-0.010	33.935	33.959	362
11	20	1.3	-1.551	-1.541	33.564	33.574	363
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							







upcast +  
downcast  
matched well!!

VESSEL:		CRUISE:		PROJECT & LEG:		STATION DESIGNATION:									
USCGC Healy		HY-01-03		ALTEX AUV Test Cruise											
CONSC CAST #	LATITUDE	LONGITUDE	DATE	TIME (GMT)	DRY BULB	WET BULB	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
DEG	MIN	DEG	MIN	HR	MIN	(°C)	(mb)		(deg)	(kt)			(m)		
044	18 51.52 N	073 38.18 E	31 OCT	19 52									11 03		
REMARKS: high O <sub>2</sub> still on descent to 30m one spike at 340m (salinity) - one big sal. spike @ depth upcast downcast runs similar O <sub>2</sub> still too high Cleaned air bleed valve															
SBE 911+ SN 638		J/TIME		DATA		File Name									
PRESS SN 83009		19.23		CTD 043.2at											
PRI TEMP SN 2796		19.25													
SEC TEMP SN 2824		19.52													
PRI COND SN 2545		20.19													
SEC COND SN 2568		130583													
POS. INTENDED		Oxygen S/N 130583		Trans. S/N		CST-390DR		Fluor. S/N		88233					
TRIP DEPTH		CTD CONVERTED MONITOR VALUES													
	PRES. (dbar)	PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SALINITY	SAL.	NUTR.	OXY.						
1															
2	1097.4	-1.868	-1.868	34.887	34.896			387							
3															
4	748	.611	.612	34.902	34.911			388							
5															
6	549	2.483	2.483	34.994	35.004			389							
7															
8	399.5	3.201	3.202	35.023	35.033			390							
9															
10	299.1	3.607	3.607	35.037	35.046			391							
11															
12	199.5	3.954	3.954	35.033	35.044			392							
13															
14	150.4	4.467	4.467	35.054	35.063			393							
15															
16	99.2	4.970	4.965	35.036	35.044			394							
17															
18	49.6	5.423	5.403	34.996	35.004			395							
19															
20	19.4	1.766	1.766	34.233	34.334			396							
21															
22	4.3	1.756	1.756	34.029	34.037			397							
23															
24															

O<sub>2</sub> ml/L

9.5

10.2

8.8

8.3

8.5

8.6

7.9

8.0

7.8

9.6

9.8

VESSEL: USCGC Healy		CRUISE: HY-01-03		PROJECT & LEG: ALTEX AUV Test Cruise		STATION DESIGNATION:																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)							(deg)	(kt)			(m)							
S 28 51.67N E 78 51.42W		S 709.38E E 709.37E		21:56 Cont		21:58 Cont		22:31 Cont		23:04 Cont		21:56 Cont		21:58 Cont		22:31 Cont		23:04 Cont		21:56 Cont		21:58 Cont		22:31 Cont		23:04 Cont		21:56 Cont		21:58 Cont	
045		7851.57		N 00709.26		E 3100101		2231																							
SBE 911+ SN 638																															
PRESS SN 83009																															
PRI TEMP SN 2796																															
SEC TEMP SN 2824																															
PRI COND SN 2545																															
SEC COND SN 2588																															
POS. INTENDED TRIP DEPTH																															
1		1000		-0.656		-0.655		34880		34.895		34.895		34.895		34.895		34.895		34.895		34.895		34.895		34.895		34.895		34.895	
2		750		750.3		750.3		34.895		34.895		34.895		34.895		34.895		34.895		34.895		34.895		34.895		34.895		34.895		34.895	
3		500		500.0		500.0		2.470		2.470		2.470		2.470		2.470		2.470		2.470		2.470		2.470		2.470		2.470		2.470	
4		400		399.8		399.8		2.806		2.806		2.806		2.806		2.806		2.806		2.806		2.806		2.806		2.806		2.806		2.806	
5		300		299.9		299.9		3.362		3.362		3.362		3.362		3.362		3.362		3.362		3.362		3.362		3.362		3.362		3.362	
6		200		200.3		200.3		4.016		4.016		4.016		4.016		4.016		4.016		4.016		4.016		4.016		4.016		4.016		4.016	
7		150		149.7		149.7		4.503		4.503		4.503		4.503		4.503		4.503		4.503		4.503		4.503		4.503		4.503		4.503	
8		100		100.1		100.1		5.500		5.500		5.500		5.500		5.500		5.500		5.500		5.500		5.500		5.500		5.500		5.500	
9		50		50.4		50.4		4.477		4.477		4.477		4.477		4.477		4.477		4.477		4.477		4.477		4.477		4.477		4.477	
10		20		20.8		20.8		0.967		0.967		0.967		0.967		0.967		0.967		0.967		0.967		0.967		0.967		0.967		0.967	
11		5		1.6		1.6		0.968		0.968		0.968		0.968		0.968		0.968		0.968		0.968		0.968		0.968		0.968		0.968	
12																															
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14																															
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23																															
24																															

O<sub>2</sub> ml/L 9.9 9.6 8.7 8.6 8.1 7.7 7.7 7.2 7.3 8.7 9.4

VESSEL: USCGC Healy			CRUISE: HY-01-03			PROJECT & LEG: ALTEX AUV Test Cruise			STATION DESIGNATION:																																									
CONSC CAST #			LATITUDE			LONGITUDE			DATE JD=			TIME (GMT)			WET BULB			PRESSURE			SEA STATE			VISIBILITY			WIND DIRN.			WIND SPD.			CLOUD (amt)			WEATHER			BOTTOM DEPTH			STA. NAME/ID								
DEG	MIN	SEC	DEG	MIN	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN	SEC	(°C)	(mb)																																		
S: 78° 52' 16"			E: 78° 52' 02"			S: 6° 22' 34"			E: 6° 20' 31"			DATE JD=			TIME (GMT)			WET BULB			PRESSURE			SEA STATE			VISIBILITY			WIND DIRN.			WIND SPD.			CLOUD (amt)			WEATHER			BOTTOM DEPTH			STA. NAME/ID					
046			78 52.07			22.07			01 NOV			01 40																																						
SBE 911+ SN			638			JD/TIME			1:00 GMT			DATA			REMARKS																																			
PRESS SN			83009			DATA ON			1:00 GMT			File Name			CTD 046.DAT																																			
PRI TEMP SN			2796			START DOWN			1:40 GMT																																									
SEC TEMP SN			2824			AT DEPTH			2:30 GMT																																									
PRI COND SN			2545			AT SURFACE																																												
SEC COND SN			2568																																															
POS. INTENDED			TRIP DEPTH			Oxygen S/N			130 583			Trans. S/N			CST-390DR			Fluor. S/N			88233																													
1			2000			PRI. TEMP. (°C)			-0.880			SEC. TEMP (°C)			-0.880			PRI. SAL.			34.888			SEC. SAL.			34.896			SALINITY			SAL.			NUTR.			OXY.											
2			1500			PRI. TEMP. (°C)			-0.785			SEC. TEMP (°C)			-0.784			PRI. SAL.			34.887			SEC. SAL.			34.895			SALINITY			SAL.			NUTR.			OXY.											
3			1000			PRI. TEMP. (°C)			-0.715			SEC. TEMP (°C)			-0.715			PRI. SAL.			34.868			SEC. SAL.			34.876			SALINITY			SAL.			NUTR.			OXY.											
4			750			PRI. TEMP. (°C)			-0.465			SEC. TEMP (°C)			-0.465			PRI. SAL.			34.876			SEC. SAL.			34.884			SALINITY			SAL.			NUTR.			OXY.											
5			500			PRI. TEMP. (°C)			1.08			SEC. TEMP (°C)			1.08			PRI. SAL.			34.893			SEC. SAL.			34.902			SALINITY			SAL.			NUTR.			OXY.											
6			400			PRI. TEMP. (°C)			4.72			SEC. TEMP (°C)			.507			PRI. SAL.			34.905			SEC. SAL.			34.913			SALINITY			SAL.			NUTR.			OXY.											
7			300			PRI. TEMP. (°C)			1.411			SEC. TEMP (°C)			1.412			PRI. SAL.			34.943			SEC. SAL.			34.954			SALINITY			SAL.			NUTR.			OXY.											
8			200			PRI. TEMP. (°C)			2.830			SEC. TEMP (°C)			2.830			PRI. SAL.			34.998			SEC. SAL.			35.008			SALINITY			SAL.			NUTR.			OXY.											
9			150			PRI. TEMP. (°C)			3.194			SEC. TEMP (°C)			3.194			PRI. SAL.			35.006			SEC. SAL.			35.015			SALINITY			SAL.			NUTR.			OXY.											
10			100			PRI. TEMP. (°C)			4.184			SEC. TEMP (°C)			4.176			PRI. SAL.			34.975			SEC. SAL.			34.986			SALINITY			SAL.			NUTR.			OXY.											
11			50			PRI. TEMP. (°C)			3.751			SEC. TEMP (°C)			3.740			PRI. SAL.			34.848			SEC. SAL.																										

VESSEL:		CRUISE:		PROJECT & LEG:		STATION DESIGNATION:																							
USCGC Healy		HY-01-03		ALTEX AUV Test Cruise																									
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/D		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(mb)						(deg)	(kt)					(m)						
047	78	51	30	N	005	35	48	E	01	NOV	01	05	21											25	66				
SBE 911+ SN		638		JD/TIME		TIMES		DATA		REMARKS																			
PRESS SN		83009		DATA ON		4:32 GMT		File Name		CTD047.DAT																			
PRI TEMP SN		2796		START DOWN		4:35 GMT																							
SEC TEMP SN		2824		AT DEPTH		5:21 GMT																							
PRI COND SN		2545		AT SURFACE		645																							
SEC COND SN		2568		Oxygen S/N		120553		Trans. S/N		CST-390DR		Fluor. S/N		88233															
POS.		INTENDED TRIP DEPTH		CTD CONVERTED MONITOR VALUES																									
1																													
2	13m																												
3																													
4	2000																												
5																													
6	1500																												
7																													
8	1000																												
9																													
10	750																												
11																													
12	500																												
13																													
14	400																												
15																													
16	300																												
17																													
18	200																												
19																													
20	150																												
21	100																												
22	50																												
23																													
24	50																												

0.2

13.2

11.9

10.3

10.0

9.8

8.5

8.6

8.6

8.3

7.8

7.5

7.7

7.9

VESSEL: USCGC Healy		CRUISE: HY-01-03		PROJECT & LEG: ALTEX AUV Test Cruise		STATION DESIGNATION: 48	
CONSC CAST #		S: 52.37N E: 78.50.49		S: 004 48.27E E: 004 48.47			
DEG	MIN	DEG	MIN	DATE	JD=	TIME (GMT)	WET BULB
048	51.64	004	47.76	01 NOV 01	0957-12.9	08	08
SBE 911+ SN		638		DATA		REMARKS	
PRESS SN		83009		File Name		Demo: 1 S spike @ 2200 dbr.	
PRI TEMP SN		2796		0857			
SEC TEMP SN		2824		0857			
PRI COND SN		2545		0957			
SEC COND SN		2568		1104			
POS.		INTENDED TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA	
1		2740		PRI. TEMP. (°C)		SEC. TEMP. (°C)	
2		1988		-0.853		-0.854	
3		1000.3		-0.821		-0.821	
4		749.1		-0.604		-0.602	
5		500.9		-0.211		-0.211	
6		398.7		1.080		1.081	
7		299.5		1.911		1.910	
8		202.2		2.756		2.757	
9		150.8		3.285		3.287	
10		100.8		3.572		3.574	
11		51.3		3.344		3.388	
12		2.3		3.620		3.626	
13				1.854		1.855	
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

02.4%

13.5

9.9

9.9

9.4

8.7

8.3

7.9

7.7

8.1

7.5

8.9

VESSEL:		CRUISE:		PROJECT & LEG:		STATION DESIGNATION:	
USCGC Healy		HY-01-03		ALTEX AUV Test Cruise			
CONSC CAST #		S: 004 02.38 E: 604 06.58 E		DATE JD=			
LATITUDE		LONGITUDE		TIME (GMT)		WET BULB	
DEG MIN		DEG MIN		HR MIN		(°C)	
49 78 51.57 N		004 02.81 E		11 33 6			
SBE 911+ SN		TIMES		DATA		REMARKS	
638		DATA ON		File Name			
PRESS SN		83009		1243			
PRI TEMP SN		2796		1243			
SEC TEMP SN		2824		1336			
PRI COND SN		2545		14:31 pm			
SEC COND SN		2568		130583			
POS. INTENDED TRIP DEPTH		Oxygen S/N		Trans. S/N		Fluor. S/N	
		120573		130583		88233	
		CTD CONVERTED MONITOR VALUES					
		PRES. (dbar)	PRI. TEMP. (°C)	SEC. TEMP (°C)	PRI. SAL.	SEC. SAL.	SALINITY
1							
2	Bottom	2359.2	-0.861	-0.861	34.896	34.904	34.91805
3							
4	1500	1500.5	-0.755	-0.755	34.890	34.900	Did not fire
5							
6	1000	1000.9	-0.617	-0.617	34.876	34.885	
7							
8	750	749.7	-0.080	-0.080	34.891	34.900	
9							
10	500	498.7	1.334	1.332	34.940	34.949	
11							
12	400	400.7	2.324	2.321	34.945	35.004	
13							
14	300	300.8	2.925	2.925	35.029	35.038	
15							
16	200	200.1	3.341	3.343	35.039	35.048	
17							
18	150	149.8	3.578	3.578	35.039	35.048	
19							
20	100	100.3	3.184	3.184	34.925	34.933	
21							
22	50	50.6	2.409	3.391	34.752	34.759	
23							
24	SURFACE	6.6	2.350	2.350	34.745	34.752	

good match up of downcast

the few spikes seem to correlate with firing bottles

O<sub>2</sub> fluctuates wildly

Cleaned air bleed valve spike as soon as leaving water

O<sub>2</sub> ml/L

13.7

12.0

11.6

9.6

9.5

9.2

9.5

8.7

8.6

7.5

8.0

8.4



VESSEL:		CRUISE:		PROJECT & LEG:		STATION DESIGNATION:	
USCGC Healy		HY-01-03		ALTEX AUV Test Cruise			
CONSC	CST #	LATITUDE		LONGITUDE		TIME (GMT)	
DEG	MIN	DEG	MIN	DAY	MO	HR	MIN
51.78	52.02	N	16.25	E			
51.78	51.69	N	15.38	E			
050	78	51.88	N	03	16	17	39
SBE 911+ SN		638		DATE JD=		YR	
PRESS SN		83009		DATA		File Name	
PRI TEMP SN		2796		16:49		ctd650.dat	
SEC TEMP SN		2824		16:50			
PRI COND SN		2545		17:39			
SEC COND SN		2568		20:34			
POS.		INTENDED		Trans. SN		CST-390DR	
TRIP DEPTH		Oxygen S/N		130583		88233	
		PRI. TEMP. (°C)		SEC. TEMP (°C)		PRI. SAL.	
		PRES. (dbar)		SEC. SAL.		SALINITY	
		PRI. TEMP. (°C)		SEC. TEMP (°C)		SAL.	
		PRI. TEMP. (°C)		SEC. TEMP (°C)		NUTR.	
		PRI. TEMP. (°C)		SEC. TEMP (°C)		OXY.	
1							
2	bottom	239.4	-0.897		-0.897	34.891	34.899
3							
4	1500	1499.4	-0.774		-0.774	34.888	34.897
5							
6	1000	1000.3	-0.646		-0.645	34.873	34.882
7							
8	750	750.1	-0.209		-0.209	34.886	34.895
9							
10	500	500.1	1.343		1.346	34.937	34.946
11							
12	400	399.6	2.261		2.262	34.985	34.995
13							
14	300	300.2	2.896		2.919	35.012	35.021
15							
16	200	200.8	3.517		3.516	35.046	35.055
17							
18	150	150.2	3.686		3.685	35.020	35.029
19							
20	100	100.0	3.654		3.654	35.016	35.025
21							
22	50	51.0	3.538		3.539	34.997	35.005
23							
24	SURFACE	4.5	3.535		3.537	34.997	35.004

[illegible]

no pressure  
spikes

fire pressure spike at 1000m

Went past 1000 → back to 1100 m  
on upcast. Trying to determine speed @ which boat was moving  
and how quickly Rosette was failing

VESSEL: USCGC Healy			CRUISE: HY-01-03			PROJECT & LEG: ALTEX AUV Test Cruise			STATION DESIGNATION: 41 knots																				
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(mb)						(deg)	(kt)	*	*	*	(m)						
S: 18° 52.09' N		E: 78° 49.44' W		01 37.51 E		02 NOV 01		18 20																					
0152		18 50.77		37.51		02 NOV 01		18 20																					
SBSE 911+ SN		638		JD/TIME		DATA		REMARKS																					
PRESS SN		83009		17:14		File Name		Ctd052.dat																					
PRI TEMP SN		2796		17:16 pm																									
SEC TEMP SN		2824		18:20 pr																									
PRI COND SN		2545		19:44																									
SEC COND SN		2568		19:44																									
POS.		INTENDED TRIP DEPTH		Oxygen S/N		Trans. S/N		CSI-390DR		Fluor. S/N		88233																	
				130583		✓		✓		✓		88233																	
				CTD CONVERTED MONITOR VALUES																									
				PRES. (dbar)		PRI. TEMP. (°C)		SEC. TEMP. (°C)		PRI. SAL.		SEC. SAL.		SALINITY		SAL.		NUTR.		OXY.									
1				2490		-0.815		-0.815		34.901		34.910						481		51A									
2		bottom																											
3																													
4		1000		1001.7		-0.563		-1.583		34.875		34.883						482		25									
5																													
6		750		746		-0.022		-0.022		34.892		34.902						483		07									
7																													
8		500		503.4		1.024		1.024		34.920		34.928						484		36									
9																													
10		400		400.4		1.961		1.960		34.970		34.980						485		38									
11																													
12		300		300.3		2.592		2.592		35.005		35.015						486		39									
13																													
14		200		199.6																									