

VESSEL Alpha Helix		PROJECT & LEG HX213		STATION DESIGNATION 260 3m NC14																																
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID																				
	DEG	MIN	DEG	MIN													DAY	MO	YR	HR	MIN															
04	15	70	6	55	N	16	3	4	4	89	W	2	3	A	U	G	9	8	19	12	9	1	9	5	7	2	8	7	2	6	8	C	N	C	1	4
CTD		TIMES		JD/TIME		DATA LOCATION												REMARKS																		
TYPE & SN		DATA ON				Tape/Diskette ID												File Name/Header																		
PRESS SN		START DOWN																																		
TEMP SN		AT DEPTH																																		
COND SN		AT SURFACE																MAX. DEPTH = m																		
TEMP SN																																				
POS.		TRIP DEPTH				CTD CONVERTED MONITOR VALUES												Cleaned air bleed valve																		
						<input checked="" type="checkbox"/> PAR		<input checked="" type="checkbox"/> FLUOR		<input type="checkbox"/> CHAM		<input type="checkbox"/> TRANSMISSOMETER		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER																				
						PRESSURE		PRL TEMP.		SEC. TEMP		SALINITY		SALINITY		SAL		NUTR		CHL		WHIT'S NUTR.														
1		50		48.9																																
2		30		30																																
3		20		21																																
4		10		10.4																																
5		0		0.7																																
6																																				
7																																				
8																																				
9																																				
10																																				
11																																				
12																																				

T_r = 8.18 S 31.8 MLD 28 T = 3.9 S = 31.9 MLD 30

VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX213		Waves 260 3m	
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=
	DEG	MIN	DEG	MIN	DAY
04257	15.90	N	1633	4.81	W 23
	TIME (GMT)		TIME (GMT)		TIME (GMT)
	HR	MIN	HR	MIN	SEC
	20	30	20	30	00
	WIND DRN.		WIND DRN.		WIND DRN.
	(deg)		(deg)		(deg)
	603		603		603
	WIND SPD.		WIND SPD.		WIND SPD.
	(m/s)		(m/s)		(m/s)
	087		087		087
	CLOUD (amt)		CLOUD (amt)		CLOUD (amt)
	87		87		87
	WEATHER		WEATHER		WEATHER
	2		2		2
	BOTTOM DEPTH		BOTTOM DEPTH		BOTTOM DEPTH
	(m)		(m)		(m)
	62		62		62
	STA. NAME/ID		STA. NAME/ID		STA. NAME/ID
	12		12		12
REMARKS					
DATA LOCATION					
Tape/Diskette ID File Name/Header					
I think it's the bottom					
MAX. DEPTH = m					
Cleaned air bleed valve					
TRANSMISSOMETER					
CTD CONVERTED MONITOR VALUES					
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY
1	30.1				
2	26	19.4			
3	14	13.9			
4	8	8.5			
5		30			
6		28			
7		14			
8		8			
9		5			
10		0000			
11					
12					

Spikes in Sal

VESSEL		PROJECT & LEG		STATION DESIGNATION																									
Alpha Helix		HX213		CNC0910																									
COONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)		WET BULB (°C)		PRESSURE (mb)		SEA STATE		WIND DIRN. (deg)		WIND SPD. (m/s)		CLOUD (amt)		WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID	
51		520.56N		16329.81W		3 AUG 82		159		8.7		.		986		5260		25		872		.		.		55		CNC09	
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS																					
TYPE & SN		DATA ON		Tape/Diskette ID		File Name/Header																							
PRESS SN		START DOWN																											
TEMP SN		AT DEPTH																											
COND SN		AT SURFACE																											
TEMP SN		MAX. DEPTH =		m																									
TRIP DEPTH		CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		Cleaned air bleed valve																							
POS.		SAMPLE BOTTLE DATA		SALINITY		SALINITY																							
1		43.2																											
2		29.0																											
3		19.2																											
4		12.5																											
5		3.2																											
6																													
7																													
8																													
9																													
10																													
11																													
12																													

[illegible]

PG _____ OF _____

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION																					
Alpha Helix		HX213		CN04																					
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID							
	DEG	MIN	DEG	MIN	DAY	MO													YR	HR	MIN				
04	65	73	41	56	N	163	14	18	24	AUG	98	01	35	8.5	018.6	260	34	72	47	CN04					
CTD		TIMES		JD/TIME		DATA LOCATION																			
TYPE & SN		DATA ON				Tape/Diskette ID		File Name/Header																	
PRESS SN		START DOWN																							
TEMP SN		AT DEPTH																							
COND SN		AT SURFACE																							
TEMP SN								MAX. DEPTH = m																	
POS.		TRIP DEPTH		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.	
1	40	39.8																							
2		30.9																							
3		19.8																							
4		10.7																							
5		8.7																							
6																									
7																									
8																									
9																									
10																									
11																									
12																									

be sure to find surf

can't to 20m

MLD 20-28

VESSEL		PROJECT & LEG		STATION DESIGNATION											
Alpha Helix		HX213		CNCO2											
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
0475739.1	18N 16309.9	91W 244	1991 AUG 9	08235	8.3		028	6280		338	72	45	CNCO2		
CTD	TIMES	JD/TIME	DATA LOCATION												
TYPE & SN	DATA ON	Tape/Diskette ID	File Name/Header												
PRESS SN	START DOWN	Can't get change to													
TEMP SN	AT DEPTH	five bottles													
COND SN	AT SURFACE	fixed													
TEMP SN		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input type="checkbox"/> CHIAM	<input type="checkbox"/> TRANSMISSOMETER	<input type="checkbox"/> Cleaned air bleed valve	MAX. DEPTH = m								
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES													
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER						
1	427	9							SAL.	NUTR.	CHL.	WHIT'S NUTR.			
2	29	?													
3	431	maybe 2													
4	31														
5	196														
6	10														
7	0														
8															
9															
10															
11															
12															

VESSEL		PROJECT & LEG		STATION DESIGNATION																			
Alpha Helix		HX213		Waves 260 1.5m																			
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID					
04858	25.93 N	128.34 W	127	25	AUG	18	1208	5.1	5.1	977	3	00	05	05	2	624	512						
CTD		TIMES		JD/TIME		DATA LOCATION																	
TYPE & SN		DATA ON				Tape/Diskette ID		File Name/Header															
PRESS SN		START DOWN																					
TEMP SN		AT DEPTH																					
COND SN		AT SURFACE																					
TEMP SN								MAX. DEPTH = m															
CTD CONVERTED MONITOR VALUES		FLUOR		CHLOR		TRANSMISSOMETER		Cleaned air bleed valve															
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.	
1	54.9																						
3	19.6																						
4	11.0																						
5	4.0																						
6	2.5																						
7	2.4																						
8	1.4																						
9	32.0																						
10																							
11																							
12																							

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION																			
Alpha Helix		HX213		waves 270° 1.2m																			
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DRN. (deg)	WIND SPD. (knots)	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID					
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN								(m)						
0571	58	33.05	N	168	26.4	7	W	25	A	U	G	9	8	14	12	5.5	994	300	15				
CTD		TIMES		JD/TIME		DATA LOCATION																	
TYPE & SN		DATA ON				Tape/Diskette ID File Name/Header																	
PRESS SN		START DOWN																					
TEMP SN		AT DEPTH																					
COND SN		AT SURFACE																					
TEMP SN						MAX. DEPTH = m																	
TRIP DEPTH						Cleaned air bleed valve																	
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.	
1	54.3																						
2	30.7																						
3	21																						
4	10																						
5	3.3																						
6																							
7																							
8																							
9																							
10																							
11																							
12																							

1x = 6.24 5 031.478 14.18 3.34 5 031.854 1.40
 MLD = 3.34 5 031.854 1.40

VESSEL Alpha Helix		PROJECT & LEG HX213		STATION DESIGNATION Waves 270° 1.2m																	
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
053588	7.71	N	16921.31	W	25	AUG	9	8	15.1	5.6	995.6	3	00	17	8	7	3	53	N1C07		
CTD		TIMES		JD/TIME		DATA LOCATION															
TYPE & SN		DATA ON				Tape/Diskette ID		File Name/Header													
PRESS SN		START DOWN																			
TEMP SN		AT DEPTH																			
COND SN		AT SURFACE																			
TEMP SN		PAR		FLUOR		CHAM		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA									
POS. TRIP DEPTH		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.		CHL.		WHIT'S NUTR.			
1 44																					
2 31.2																					
3 26.5																					
4 11.5																					
5 1.8																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Sal spikes near surface

VESSEL		PROJECT & LEG		STATION DESIGNATION																			
Alpha Helix		HX213		Waves 270° 1.2 NZC06																			
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (knots)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID							
	DEG	MIN	DEG	MIN													DAY	MO	YR	HR	MIN	SEC	
054	58	40.09	N	148	18.71	W	25	A	U	G	9	8	10	52	57.6	99.6	300	2.5	87	6	50	N1	60
CTD		TIMES		JD/TIME		DATA LOCATION										REMARKS							
TYPE & SN		DATA ON		Tape/Diskette ID		File Name/Header																	
PRESS SN		START DOWN																					
TEMP SN		AT DEPTH																					
COND SN		AT SURFACE														MAX. DEPTH = m							
TEMP SN																							
TRIP DEPTH																							
POS.																							
1		44.8																					
2		32.8																					
3		21.9																					
4		11.3																					
5		21																					
6																							
7																							
8																							
9																							
10																							
11																							
12																							

VESSEL		PROJECT & LEG		STATION DESIGNATION																				
Alpha Helix		HX213		270° 1.2 m N1C05																				
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID									
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN															
055	58	42	58	N	168	16	26	W	25	A	U	G	9	8	1629	5.7	99	6630	025	87%			49	M1C05
CTD		TIMES		JD/TIME		DATA LOCATION										REMARKS								
TYPE & SN		DATA ON				Tape/Diskette ID										File Name/Header								
PRESS SN		START DOWN																						
TEMP SN		AT DEPTH																						
COND SN		AT SURFACE														MAX. DEPTH = m								
TEMP SN						<input checked="" type="checkbox"/> PAR		<input checked="" type="checkbox"/> FLUOR		<input type="checkbox"/> CHAM		<input type="checkbox"/> TRANSMISSOMETER		<input type="checkbox"/> Cleaned air bleed valve										
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																						
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAMPLE BOTTLE DATA										SAMPLE BOTTLE NUMBER							
1	47.5																							
2	30.2																							
3	20.7																							
4	10.1																							
5	7.7																							
6																								
7																								
8																								
9																								
10																								
11																								
12																								

VESSEL		PROJECT & LEG		STATION DESIGNATION																	
Alpha Helix		HX213		Waves 2801.5m NICOF																	
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO													YR	HR	MIN
4565844.7	N	16813.49	W	25	AUG	98	16	54	5.7		997.63			032	87%		48	MIZO			
CTD		TIMES		JD/TIME		DATA LOCATION															
TYPE & SN		DATA ON				Tape/Diskette ID File Name/Header															
PRESS SN		START DOWN																			
TEMP SN		AT DEPTH																			
COND SN		AT SURFACE																			
TEMP SN		<input checked="" type="checkbox"/> PAR		<input checked="" type="checkbox"/> FLUOR	<input type="checkbox"/> CHAM	<input type="checkbox"/> TRANSMISSOMETER	<input type="checkbox"/> Cleaned air bleed valve	MAX. DEPTH = m													
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA												SAMPLE BOTTLE NUMBER			
1	43.3?																	SAL.	NUTR.	CHL.	WHIT'S NUTR.
2	33.3																				
3	20.2																				
4	10.4																				
5	31																				
6	29																				
7																					
8																					
9																					
10																					
11																					
12																					

[illegible]

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION															
Alpha Helix		HX213		Waves 310 2.5m															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN															DAY
0605	18	54.97	N	168	16.59	W	26	AUG	98	16	47	6.4	095	310	20	-2	45	NIADOL	
CTD		TIMES		JD/TIME		DATA LOCATION													
TYPE & SN		DATA ON		Tape/Diskette ID		File Name/Header													
PRESS SN		START DOWN																	
TEMP SN		AT DEPTH																	
COND SN		AT SURFACE																	
TEMP SN																			
MAX. DEPTH =		m																	
REMARKS																			
CLEANED AIR BLEED VALVE																			
SAMPLE BOTTLE NUMBER																			
SAMPLE BOTTLE DATA																			
SALINITY																			
SAL.																			
NUTR.																			
CHL.																			
WHIT'S NUTR.																			
CTD CONVERTED MONITOR VALUES																			
PRESSURE																			
PRI. TEMP.																			
SEC. TEMP.																			
SALINITY																			
TRIP DEPTH																			
1		30																	
2		20																	
3		10																	
4		0																	
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

VESSEL		PROJECT & LEG		STATION DESIGNATION								
Alpha Helix		HX213		Wave 320° 2.5m N1405								
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
06258	45.70N	168.24W	26 AUG 98	1841	105	320	20		1	50	N1405	
CTD		TIMES		DATA LOCATION		REMARKS						
TYPE & SN		DATA ON		Tape/Diskette ID		File Name/Header						
PRESS SN		START DOWN										
TEMP SN		AT DEPTH										
COND SN		AT SURFACE						MAX. DEPTH = m				
TEMP SN												
TRIP DEPTH		CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA				
POS.		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA		SAL.		NUTR.	CHL.	WHIT'S NUTR.
1	45.8											
2	32.8											
3	22											
4	10.9											
5	4.1											
6												
7												
8												
9												
10												
11												
12												

VESSEL		PROJECT & LEG		STATION DESIGNATION													
Alpha Helix		HX213		N/A 06													
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB (°C)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (knts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR									MIN
06358	43.36	N	168	29.42	W	26	AUG	8	19	16	57.9	095	320		1	57	NIA06
CTD		TIMES		JD/TIME		DATA LOCATION											
TYPE & SN		DATA ON				Tape/Diskette ID		File Name/Header									
PRESS SN		START DOWN															
TEMP SN		AT DEPTH															
COND SN		AT SURFACE															
TEMP SN																	
MAX. DEPTH =		m															
REMARKS																	
CLEANED AIR BLEED VALVE																	
SAMPLE BOTTLE NUMBER																	
WHIT'S NUTR.																	
CHL.																	
NUTR.																	
SAL.																	
SALINITY																	
DATA																	
CTD CONVERTED MONITOR VALUES																	
PRESSURE																	
PRI. TEMP.																	
SEC. TEMP.																	
SALINITY																	
TRIP DEPTH																	
POS.																	
1		46.5															
2		32.4															
3		20.2															
4		10															
5		2.5															
6																	
7																	
8																	
9																	
10																	
11																	
12																	

VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX213		N1207	
CONSCAST #	5840.93	LATITUDE		Waves 320 2m	
DEG	MIN	LONGITUDE		WIND DIRN. (deg)	
16	8	DEG	MIN	WET BULB (°C)	WIND SPD. (m/s)
17	17	16	8	6.3	1.5
18	17	17	17	19	5
19	17	17	17	19	5
20	17	17	17	19	5
21	17	17	17	19	5
22	17	17	17	19	5
23	17	17	17	19	5
24	17	17	17	19	5
25	17	17	17	19	5
26	17	17	17	19	5
27	17	17	17	19	5
28	17	17	17	19	5
29	17	17	17	19	5
30	17	17	17	19	5
31	17	17	17	19	5
32	17	17	17	19	5
33	17	17	17	19	5
34	17	17	17	19	5
35	17	17	17	19	5
36	17	17	17	19	5
37	17	17	17	19	5
38	17	17	17	19	5
39	17	17	17	19	5
40	17	17	17	19	5
41	17	17	17	19	5
42	17	17	17	19	5
43	17	17	17	19	5
44	17	17	17	19	5
45	17	17	17	19	5
46	17	17	17	19	5
47	17	17	17	19	5
48	17	17	17	19	5
49	17	17	17	19	5
50	17	17	17	19	5
51	17	17	17	19	5
52	17	17	17	19	5
53	17	17	17	19	5
54	17	17	17	19	5
55	17	17	17	19	5
56	17	17	17	19	5
57	17	17	17	19	5
58	17	17	17	19	5
59	17	17	17	19	5
60	17	17	17	19	5
61	17	17	17	19	5
62	17	17	17	19	5
63	17	17	17	19	5
64	17	17	17	19	5
65	17	17	17	19	5
66	17	17	17	19	5
67	17	17	17	19	5
68	17	17	17	19	5
69	17	17	17	19	5
70	17	17	17	19	5
71	17	17	17	19	5
72	17	17	17	19	5
73	17	17	17	19	5
74	17	17	17	19	5
75	17	17	17	19	5
76	17	17	17	19	5
77	17	17	17	19	5
78	17	17	17	19	5
79	17	17	17	19	5
80	17	17	17	19	5
81	17	17	17	19	5
82	17	17	17	19	5
83	17	17	17	19	5
84	17	17	17	19	5
85	17	17	17	19	5
86	17	17	17	19	5
87	17	17	17	19	5
88	17	17	17	19	5
89	17	17	17	19	5
90	17	17	17	19	5
91	17	17	17	19	5
92	17	17	17	19	5
93	17	17	17	19	5
94	17	17	17	19	5
95	17	17	17	19	5
96	17	17	17	19	5
97	17	17	17	19	5
98	17	17	17	19	5
99	17	17	17	19	5
100	17	17	17	19	5
101	17	17	17	19	5
102	17	17	17	19	5
103	17	17	17	19	5
104	17	17	17	19	5
105	17	17	17	19	5
106	17	17	17	19	5
107	17	17	17	19	5
108	17	17	17	19	5
109	17	17	17	19	5
110	17	17	17	19	5
111	17	17	17	19	5
112	17	17	17	19	5

VESSEL		PROJECT & LEG				STATION DESIGNATION													
Alpha Helix		HX213				Waves 320 2.0m N1 #09													
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	WET BULB (°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
0655836.23N	16837.22W	24	09	8	21	17	6.1			094	320	15							
CTD		TIMES		JD/TIME		DATA LOCATION													
TYPE & SN		DATA ON				Tape/Diskette ID File Name/Header													
PRESS SN		START DOWN																	
TEMP SN		AT DEPTH																	
COND SN		AT SURFACE																	
TEMP SN						MAX. DEPTH = m													
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES		FLUOR		CHAM		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		WHIT's NUTR.	
1	55.3													SALINITY		SAL.		CHL.	
2	31.8													SALINITY		SAL.		CHL.	
3	21													SALINITY		SAL.		CHL.	
4	10.7													SALINITY		SAL.		CHL.	
5	2.6													SALINITY		SAL.		CHL.	
6														SALINITY		SAL.		CHL.	
7														SALINITY		SAL.		CHL.	
8														SALINITY		SAL.		CHL.	
9														SALINITY		SAL.		CHL.	
10														SALINITY		SAL.		CHL.	
11														SALINITY		SAL.		CHL.	
12														SALINITY		SAL.		CHL.	

VESSEL		PROJECT & LEG				STATION DESIGNATION															
Alpha Helix		HX213				N/A 11															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID					
	DEG	MIN	SEC	DEG	MIN	SEC	HR	MIN	SEC												
066	58	31.5	7	N	168	42.4	25	W	26	A	U	G	9	8	22	08					
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS													
TYPE & SN		DATA ON		Tape/Diskette ID		File Name/Header															
PRESS SN		START DOWN																			
TEMP SN		AT DEPTH																			
COND SN		AT SURFACE																			
TEMP SN																					
MAX. DEPTH =		m																			
TRANSMISSOMETER		CHIAM		FLUOR		PAR		Cleaned air bleed valve													
SAMPLE BOTTLE DATA		SALINITY		SALINITY		SALINITY		SALINITY		SAL.		NUTR.		CHL.		WHIT'S NUTR.					
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SALINITY		SAL.		NUTR.		CHL.		WHIT'S NUTR.	
1	45	61																			
2	12	29.8																			
3	12	12.1																			
4		13.2																			
5		12.4																			
6		11.7																			
7		10.9																			
8		8.9																			
9		2.5																			
10																					
11																					
12																					

12, 12, 12, 8.

VESSEL		PROJECT & LEG		STATION DESIGNATION									
Alpha Helix		HX213		N/E 08									
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	WET BULB	DRY BULB	WET BULB	SEA STATE	WIND DIRN.	WIND SPD.	WEATHER	BOTTOM DEPTH	STA. NAME/ID
0705832.19	N 16 8 13.33	W 27 A U G 98	02 27	09 41	09 41	09 41	09 41	09 41	310	16	1	55N 150E	
CTD		TIMES		JD/TIME		DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS	
TYPE & SN		DATA ON											
PRESS SN		START DOWN											
TEMP SN		AT DEPTH											
COND SN		AT SURFACE											
TEMP SN													
MAX. DEPTH =		m											
TRIP DEPTH		CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
POS.		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	WHIT'S NUTR.
1	57.4												
2	30.3												
3	21.2												
4	10.6												
5	1.8												
6													
7													
8													
9													
10													
11													
12													

Morning 3 calib. site
Warmer slab between 20 & 30

[illegible]

[illegible]

[illegible]

VESSEL		PROJECT & LEG				STATION DESIGNATION				PG ____ OF ____												
Alpha Helix		HX213				Waves 300 1m																
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												MIN		
0765851	71	N	168	05.55	W	27	AUG	98	21	22	7.0	.093	295	10	(m)		44N1E01					
CTD		TIMES		JD/TIME		DATA LOCATION																
TYPE & SN		DATA ON _____		Tape/Diskette ID _____		File Name/Header _____																
PRESS SN		START DOWN _____		_____		_____																
TEMP SN		AT DEPTH _____		_____		_____																
COND SN		AT SURFACE _____		_____		MAX. DEPTH = m																
TEMP SN		_____ <input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input type="checkbox"/> CHAM <input type="checkbox"/> TRANSMISSOMETER <input type="checkbox"/> Cleaned air bleed valve																				
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																				
PRESSURE	PRI. TEMP.	SEC. TEMP.		SALINITY	SAMPLE BOTTLE DATA														SAMPLE BOTTLE NUMBER		WHIT'S NUTR.	
1 15	15.7																					
2 10	9																					
3 5	5.1																					
4 0	1.9																					
5 0	1.9																					
6 0	2.3																					
7 0	3.4																					
8																						
9																						
10																						
11																						
12																						

STA	61	NIAQ3
	62	NIAO5
	63	NIAOC
	64	NIAO7
	65	NIAO9

18
18
12
12
8
5
mm.

15
10
5
0000

Started collecting late

VESSEL		PROJECT & LEG		STATION DESIGNATION									
Alpha Helix		HX213											
CONSC. CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	WET BULB (°C)	DRY BULB (°C)	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
079	10.43 N	167.44 W	28 AUG 98	1202Z	7.0	7.0	295	10			2	42	18X8
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS					
TYPE & SN		DATA ON		Tape/Diskette ID		File Name/Header							
PRESS SN		START DOWN											
TEMP SN		AT DEPTH											
COND SN		AT SURFACE								MAX. DEPTH = m			
TEMP SN													
TRIP DEPTH													
POS.													
1		20		21.7		20.8		13.2		14.2		8.3	
2		20		20.8		13.2		14.2		8.3		9.2	
3		13		13.2		14.2		8.3		9.2		4.3	
4		13		14.2		8.3		9.2		4.3		5.0	
5		9		8.3		9.2		4.3		5.0		3.4	
6		9		9.2		4.3		5.0		3.4		3.3	
7		5		4.3		5.0		3.4		3.3		2.2	
8		5		5.0		3.4		3.3		2.2		1.77	
9		3		3.4		3.3		2.2		1.77			
10		3		3.3		2.2		1.77					
11		0		0									
12		0		0									

VESSEL		PROJECT & LEG		STATION DESIGNATION																	
Alpha Helix		HX213		Waves 350 / m																	
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID				
	DEG	MIN	DEG	MIN														DAY	MO	YR	HR
180	59	38.38	N	69	13.98	W	09	11	20	013	040	08			2	30	N/C				
CTD		TIMES		JD/TIME		DATA LOCATION												REMARKS			
TYPE & SN		DATA ON				Tape/Diskette ID												File Name/Header			
PRESS SN		START DOWN																			
TEMP SN		AT DEPTH																			
COND SN		AT SURFACE																MAX. DEPTH = m			
TEMP SN						<input checked="" type="checkbox"/> PAR		<input checked="" type="checkbox"/> FLUOR		<input type="checkbox"/> CHIAM		<input type="checkbox"/> TRANSMISSOMETER		<input type="checkbox"/> Cleaned air bleed valve							
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAMPLE BOTTLE DATA											SAMPLE BOTTLE NUMBER		WHIT'S NUTR.	
1	29.5																				
2	10.9																				
3	1.7																				
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					