

VESSEL Alpha Helix		PROJECT & LEG HX200								1 ^W		STATION DESIGNATION 2/6					
CON SC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB	WET BULB	PRESSURE (mb)	SEA STATE VISIBILITY	13	WIN DIRN. D.	CLOUD (cm) TYPE WEATHER	BOTTO M DEPT H	STA. NAME/ID		
	DEG MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(deg)	(m/s)	*	*	(m)		
0015	15 33.33 N	16 9	47.14 W	28	SEP	97	180	210.8	13	3413005872	72	72 N	1A24				
CTD		TIMES		JD/TIME		DATA LOCATION								REMARKS			
TYPE & SN	911+	DATA ON				Tape/Diskette ID	File Name/Header										
PRESS SN	#50405	START DOWN															
TEMP SN	#1390	AT DEPTH															
COND SN	#1072	AT SURFACE															
TEMP SN		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input type="checkbox"/> CHLAM	<input type="checkbox"/> TRANSMISSOMETER												
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES								SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER					
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY		Sal.		Nuts.	OTHER						
1	50																
2	30																
3	13.7																
4	23.4																
5	23.6																
6	23.6																
7	15.6																
8	1.5																
9	1.5																
10	1.5																
11	1.5																
12	67.4																
0014																	
0016																	

Deck was confused as to rosette position. She thought it was pointing at 12^W first but at end we observed that it was first facing position

VESSEL Alpha Helix			PROJECT & LEG HX200			TIME 1/M			STATION DESIGNATION N/A 16 2/4																
CON SC CAST #	LATITUDE		LONGITUDE		DATE JD=			TIME DRY BULB WET BULB			FRESHWATER TYPE WEATHER CLOUD DIRN. DIRN. D.			WIND D SP H			BOTTO M DEPT H			STA. NAME/ID					
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	(m)	(m)	(m)	(m)	(m)						
0035810.62N	05.8	10.62	005.8	10.62	23	08	97	06	11	1.1	1.1	1014	1.1	1.1	1.1	1.1	1.1	1.1	1.1						
CTD	TIME		JD/TIME		8/AUG			DATA LOCATION			REMARKS														
TYPE & SN	911+		DATA ON					Tape/Diskette ID			File Name/Header														
PRESS SN	#50405		START DOWN																						
TEMP SN	#1390		AT DEPTH																						
COND SN	#1072		AT SURFACE																						
TEMP SN			<input checked="" type="checkbox"/> PAR		<input checked="" type="checkbox"/> FLUOR			<input type="checkbox"/> ChlAM			<input type="checkbox"/> TRANSMISSOMETER			MAX. DEPTH = m											
POS	TRIP DEPTH		CTD CONVERTED MONITOR VALUES						SAMPLE BOTTLE DATA			SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER										
			PRESSURE			PR1, TEMP.			SEC. TEMP			SALINITY			SALINITY			SALINITY							
7	1 66.7																								
8	2 50																								
9	3 20																								
10	4 25.1																								
11	5 15.1																								
12	6 1.0																								
13	7																								
14	8																								
15	9																								
16	10																								
17	11																								
18	12																								

7 8 9 10 11 12

13 14 15 16 17 18

13 14 15 16 17 18

waves getting rougher

VESSEL Alpha Helix		PROJECT & LEG HX200			STATION DESIGNATION N 1A 14		
CON SC CAST #	Latitude DEG MIN	Longitude DEG MIN	DATE JD=	TIME (GMD)	Dry Bulb °C	Wet Bulb °C	Fresure (mb)
			DAY MO YR	Hr Min			
00 45 81	19.9 12	N 16 55 5.9	3W 29 SEP 97	00 23 11	1.0		
CTD	TYPE & SN	911+	TIMES	JD/TIME	29 AUG	DATA LOCATION	REMARKS
PRESS SN	#50405	DATA ON	0004			Tape/Diskette ID	File Name/Header
TEMP SN	#1390	START DOWN	↓				
COND SN	#1072	AT DEPTH					
TEMP SN		AT SURFACE					
		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input type="checkbox"/> CHIAM	<input type="checkbox"/> TRANSMISSOMETER		
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES					SAMPLE BOTTLE DATA
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAMPLE BOTTLE NUMBER
1	63.6						Sci. Nuts. OTHER
2	50						00401
3	30						
4	22.9						
5	11.9						
6	1.5						
7							
8							
9							
10							
11							
12							

Rain harder now,

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION NIA13	
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD=	TIME (GMD)	WET BULB TEMP F K H
0 05 58.2	45 8 N	16 50.3 W	DAY MO	DRY BULB TEMP F K H	WIND DIRN. DIRN. TYPE CLOUD (amt)
			DAY	HR MIN	WIND DIRN. DIRN. TYPE CLOUD (amt)
			YR	(°C)	WIND DIRN. DIRN. TYPE CLOUD (amt)
				(°C)	WIND DIRN. DIRN. TYPE CLOUD (amt)
CTD	TIMES JD/TIME 29 AUG	DATA ON START DOWN 1110	WET BULB TEMP F K H	WET BULB TEMP F K H	WET BULB TEMP F K H
TYPE & SN	911+	Tape/Diskette ID	SEA STATE VISIBILITY	SEA STATE VISIBILITY	SEA STATE VISIBILITY
PRESS SN	#50405	File Name/Header	WIND DIRN.	WIND DIRN.	WIND DIRN.
TEMP SN	#1390	MAX. DEPTH = 64 m	DIRN.	DIRN.	DIRN.
COND SN	#1072	AT SURFACE	TYPE	TYPE	TYPE
TEMP SN		PAR <input checked="" type="checkbox"/> FLUOR <input checked="" type="checkbox"/> CHIAM <input checked="" type="checkbox"/> TRANSMISSOMETER	CHIAM	TRANSMISSOMETER	TRANSMISSOMETER
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY
1					SAL.
2					NUTS.
3					OTHER
4					
5					
6					
7	63.8				
8	49.9				
9	24.9				
10	21.9				
11	15.0				
12	11.6				
					0.0501

VESSEL Alpha Helix			PROJECT & LEG HX200			STATION DESIGNATION Rgm			STATION DESIGNATION NIA12				
CON SC CAST #	Latitude DEG MIN	Longitude DEG MIN	Date JD=	Time (GMD) HR MIN	Wet Bulb Temp (°C)	Wind Dirn. (deg)	Wind D Sp (m/s)	Cloud amt (amt)	Botto H	Wear Her M Dept (m)	Sta. Name/ID		
000	58 29.3	16 54.9	1970 14 07	01 0.8	1046	148	08	15K					
CTD	TIME JD/TIME 20 AUG	DATA ON Tape/Diskette ID	DATA LOCATION	REMARKS									
TYPE & SN	911+	PRESS SN #50405	START DOWN	0147	File Name/Header								
TEMP SN	#1390	AT DEPTH											
COND SN	#1072	AT SURFACE											
TEMP SN		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHI AM	<input checked="" type="checkbox"/> TRANSMISSOMETER								
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER					
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SALINITY	Sal.	Nuts.	Other			
1	57.5										00001		
2	30.4												
3	21.0												
4	15.6												
5	2.4												
6													
7													
8													
9													
10													
11													
12													

*0 C 05 mBIC
lower*

VESSEL Alpha Helix			PROJECT & LEG HX200			TIME			STATION DESIGNATION XMA 11					
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD=	(GMD)	TIME H-R MIN	DRY BULB (°C)	WET BULB (°C)	WIND DIRN. (deg)	WIN D SP DIRN. (m/s)	WEATHER TYPE	BOTTO M DEPT H	STA. NAME/ID		
067 58 31 17	1 N 11 54	1 E 21 07	097 02 14	04 06 57	0.8	14.0	14.0	161	140	872	64	N/A		
CTD	TIMES		JD/TIME AUG	DATA LOCATION			REMARKS							
TYPE & SN	911+		DATA ON	Tape/Diskette ID			File Name/Header							
PRESS SN	#50405		START DOWN	6215										
TEMP SN	#1390		AT DEPTH	0219										
COND SN	#1072		AT SURFACE											
TEMP SN			<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR			<input type="checkbox"/> CHLAM	<input type="checkbox"/> TRANSMISSOMETER						
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER						
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY		Sal.	Nuts.	Other				
1	58.1													
2	51.1													
3	21.9													
4	18.7													
5	1.3													
6														
7														
8														
9														
10														
11														
12														

478910

VESSEL Alpha Helix		PROJECT & LEG HX200		TIME		STATION DESIGNATION N 1A 7	
CON SC CAST #	Latitude DEG MIN	Longitude DEG MIN	DATE JD=	DRY BULB °C	WET BULB °C	DEPTH (m)	BOTTOM TYPE
			DAY MO	HR MIN	DIRN.	H	STA. NAME/ID
00 95 84 11.0	N 16 08 32.0	E 07 03 38.1	09 70	04 0.4	14 0 0.8	872	55 N 1A 7
CTD	TIMES	JD/TIME	29 AUG	DATA LOCATION	REMARKS		
TYPE & SN	911+	DATA ON		Tape/Diskette ID	File Name/Header		
PRESS SN	#50405	START DOWN	0939				
TEMP SN	#1390	AT DEPTH					
COND SN	#1072	AT SURFACE					
TEMP SN		<input type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input type="checkbox"/> CHLAM <input type="checkbox"/> TRANSMISSOMETER					
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAMPLE BOTTLE NUMBER
1	49.4						
2	20.0						
3	16.9						
4	1.5						
5							
6							
7							
8							
9							
10							
11							
12							

VESSEL		PROJECT & LEG										STATION DESIGNATION	
Alpha Helix		HX200										7/14 N1A40	
CON SC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME	DRY BULB	WET BULB	WIN D SP	BOTTO M DEPT H	STA. NAME/ID		
	DEG MIN	DEG	MIN	DAY	MO	HR MIN	(°C)	(mb)	DIRN.	TYPE	CLOD (gmt)		
010	58 43.3	58 43.3	27	9.4	NOV 27	0405	10.2	10.4	180	*	(m)		
CTD	TYPE & SN	911+	DATA ON		Tape/Diskette ID		File Name/Header		REMARKS				
PRESS SN	#50405		START DOWN		0405								
TEMP SN	#1390		AT DEPTH										
COND SN	#1072		AT SURFACE										
TEMP SN			<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHLAM	<input checked="" type="checkbox"/> TRANSMISSOMETER							
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA	
		PRESSURE		PRI. TEMP.		SEC. TEMP		SALINITY		SALINITY	SAMPLE BOTTLE NUMBER		
1	47.9										Sal.		
2	30.8										Nut.		
3	75.6										Other		
4	2.9												
5													
6													
7													
8													
9													
10													
11													
12													

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION 26 NIA5	
CON SC CAST #	Latitude deg min	Longitude deg min	Date JD = day mo yr	TIME (GMT) hr min	WET BULB TEMP C (°C)
					TYPE DIRN. D.
0111	53°45'6" N	168°26'8" W	97 SEP 29	10.2	CLoud (amt) WIN D SP DIRN. H
CTD	TIMES JD/TIME 29 AUG	DATA LOCATION	REMARKS		
TYPE & SN	911+	DATA ON	Tape/Diskette ID	File Name/Header	
PRESS SN	#50405	START DOWN	0433		
TEMP SN	#1390	AT DEPTH			
COND SN	#1072	AT SURFACE			
TEMP SN		<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input checked="" type="checkbox"/> CHIAM <input checked="" type="checkbox"/> TRANSMISSOMETER		MAX. DEPTH =	47 m
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA
	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE NUMBER ScL Nuts. OTHER
1	46.7				01/61
2	30.4				
3	15.8				
4					
5					
6					
7					
8					
9					
10					
11					
12					

After this cast we'll increase descent rate to 30m/min instead of 15
 rocking ship is causing CTD to go up & down two times more.

VESSEL Alpha Helix			PROJECT & LEG HX200			15m			STATION DESIGNATION 151A-03		
CON SC CAST #	LATITUDE		LONGITUDE		DATE	TIME	DRY	WET	BOTTO		STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	HR	BULB	DIRN.	M DEPT	H
0125	85	0.30	N	168	21	71	05	5.9	W	0.8	14
CTD					STEP	97	05	5.9	DIRN.	CLLOUD (gmt)	STA. NAME/ID
TYPE & SN	911+		DATA ON		JD/TIME	29 AUG	0946	0946	DIRN.	WEATHER	check notes May 1983
PRESS SN	#50405		START DOWN							D SP	May 1983
TEMP SN	#1390		AT DEPTH							D.	May 1983
COND SN	#1072		AT SURFACE								May 1983
TEMP SN			<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input type="checkbox"/> CHAM	<input type="checkbox"/> TRANSMISOMETER					May 1983
POS	TRIP DEPTH		CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER		
			PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY			Sci.	Nuts.	OTHER
1	43.8								01201		
2	29.9										
3	21.1										
4	11.9										
5	2.2										
6											
7											
8											
9											
10											
11											
12											

Stratification less intense; Higher interface, more oxygen

Check
notes
May 1983
N.B.
Temp tool
Ctd 10/11/83
16K

VESSEL Alpha Helix		PROJECT & LEG HX200		11.00		STATION DESIGNATION N130°2'	
CON SC CAST #	Latitude DEG MIN	Longitude DEG MIN	Date JD=	TIME (GMT)	Dry Bulb Wet Bulb Temp (°C)	Pressure (mb)	Bottom Depth (m)
0135851.0	3N 14°8'13.7"	W 29°5'9.7"	1981379	09:46	9.6	0846	11308872
CTD	TIMES	JD/TIME	AUG 29	0600	DATA LOCATION	REMARKS	
TYPE & SN	911+	DATA ON		Tape/Diskette ID	File Name/Header		
PRESS SN	#50405	START DOWN					
TEMP SN	#1390	AT DEPTH					
COND SN	#1072	AT SURFACE					
TEMP SN		PAR	<input checked="" type="checkbox"/>	FLUOR	<input type="checkbox"/>	ChlAM	<input type="checkbox"/> TRANSMISOMETER
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAMPLE BOTTLE NUMBER
1	42.6						Sci. Nuts. OTHER
2	20.3						X
3	16.6						
4	2.7						
5							
6							
7							
8							
9							
10							
11							
12							

Mixed zone within At ~2.24

VESSEL Alpha Helix			PROJECT & LEG HX200				WATER 1.5 m			STATION DESIGNATION NJTB23			
CON SC CAST #	Latitude	Longitude	Date JD=	TIME (GMT)	DRY WET	WIND DIRN.	WEATHER TYPE	BOTTO M DEPT	STA. NAME/ID				
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	BULB BULB	(deg)	CLOUD VISIBILITY	H					
	53 48.6	65 51 3	29 SEP 97	06 28	9.7	0842	SEA STATE						
CTD	TIMES	JD/TIME 29AUG		DATA LOCATION	REMARKS								
					Tape/Diskette ID	File Name/Header							
PRESS SN	911+	DATA ON											
TEMP SN	#50405	START DOWN	0629										
COND SN	#1390	AT DEPTH											
TEMP SN	#1072	AT SURFACE											
	<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHIAM	<input checked="" type="checkbox"/> TRANSMISSOMETER									
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA							
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	NUTS.	OTHER				
1	44.7												
2	20.4												
3	9.7												
4	20												
5													
6													
7													
8													
9													
10													
11													
12													

Getting a lot rougher again

PG — OF —

VESSEL Alpha Helix			PROJECT & LEG HX200			WKT 1.5			STATION DESIGNATION NTB 11					
CON SC CAST #	LATITUDE		LONGITUDE		DATE	TIME	DRY BULB	WET BULB	WIND DIRN.	BOTTO M DEPT H	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	(deg)	(m)				
01/19/82 19 00 N / 148 36 37 W	SEP	97	094	0109	0441	13506	1	64 N 13 11						
CTD	TIME		JD/TIME		DATA LOCATION		REMARKS							
TYPE & SN	911+		DATA ON		Tape/Diskette ID		File Name/Header							
PRESS SN	#50405		START DOWN		0948									
TEMP SN	#1390		AT DEPTH											
COND SN	#1072		AT SURFACE											
TEMP SN			<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHLAM	<input checked="" type="checkbox"/> TRANSMISSOMETER								
POS	TRIP DEPTH		CTD CONVERTED MONITOR VALUES						SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER		
	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY		SALINITY		SOL.	NUTS.	OTHER				
1	58.1							01901						
2	31.5													
3	19.5													
4	1.4													
5														
6														
7														
8														
9														
10														
11														
12														

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55

VESSEL Alpha Helix			PROJECT & LEG HX200			STATION DESIGNATION <i>H C 8</i>				
CON SC CAST #	LATITUDE		LONGITUDE		DATE	TIME	DRY BULB	WET BULB	BOTTOM DEPT	
	DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	HR	
0245835.41	N	16824.02	W	21	1971	SEP	21	0.6	114	6
CTD	TIMES	JD/TIME <i>29406</i>		DATA LOCATION <i>155</i>			REMARKS			
TYPE & SN	911+	DATA ON _____		Tape/Diskette ID _____			File Name/Header _____			
PRESS SN	#50405	START DOWN _____		_____			_____			
TEMP SN	#1390	AT DEPTH _____		_____			_____			
COND SN	#1072	AT SURFACE		_____			_____			
TEMP SN		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input type="checkbox"/> CHIAM	<input type="checkbox"/> TRANSMISOMETER				MAX. DEPTH = <i>57.5</i> m	
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES						SAMPLE BOTTLE DATA		
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY
1	<i>57.5</i>									
2	<i>30.4</i>									
3	<i>16.1</i>									
4	<i>1.6</i>									
5										
6										
7										
8										
9										
10										
11										
12										

Beats + wind calm

VESSEL Alpha Helix			PROJECT & LEG HX200						STATION DESIGNATION N 1 C 07									
CON SC CAST #	LATITUDE		LONGITUDE		DATE		TIME		DRY BULB		WET BULB		WIND DIRN.		WIND DIRN.			
	DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	(°C)	(mb)	(m/s)	(deg)	(m/s)	TYPE	CLOUD HGT M DEPT H	WEATHER STA NAME/ID		
025	58	37.7	4	N	16	8	21	41	W	1097	249	0.7	034	143	6	24	52 N 1 C 07	
CTD																		
TYPE & SN	911+		DATA ON		JD/TIME		406		Tape/Diskette ID		File Name/Header		REMARKS					
PRESS SN	#50405		START DOWN															
TEMP SN	#1390		AT DEPTH															
COND SN	#1072		AT SURFACE															
TEMP SN			<input checked="" type="checkbox"/> PAR		<input checked="" type="checkbox"/> FLUOR		<input type="checkbox"/> CHIAM		<input type="checkbox"/> TRANSMISSOMETER									
POS	TRIP DEPTH		CTD CONVERTED MONITOR VALUES						SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER							
			PRESSURE		PRI. TEMP.		SEC. TEMP		SALINITY		SALINITY		Sci.		Nuts.		OTHER	
1	52.6												02501					
2	20.5																	
3	18.8																	
4	2.1												02504					
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

(21-30m) Spike in fl on downcast - Not on upcast

VESSEL Alpha Helix			PROJECT & LEG HX200			STATION DESIGNATION N 1C-6			
CON SC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMD)	DRY BULB	WET BULB	BOTTOM DEPT
	DEG	MIN	DEG	MIN	DAY MO YR	HR MIN	(°C)	(°C)	H
0 24 58 40.0	0 0 6 N	16 8 18.7 W	29 SEP 97	13 20 0 5	0 3 3	1 50	5	5	50 M 1 C C 4
CTD	TIMES		JD/TIME		25 AU G	DATA LOCATION		REMARKS	
TYPE & SN	911+		DATA ON		Tape/Diskette ID		File Name/Header		
PRESS SN	#50406		START DOWN		1320				
TEMP SN	#11390		AT DEPTH						
COND SN	#1072		AT SURFACE						
TEMP SN			<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHIAM	<input checked="" type="checkbox"/> TRANSMISSEOMETER			
POS	TRIP DEPTH		CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
	PRESSURE		PRI. TEMP.		SEC. TEMP	SALINITY		Scat.	Nuts.
1	49.0								OTHER
2	29.4								
3	16.6								
4	2.1								
5									
6									
7									
8									
9									
10									
11									
12									

No Sample
Bottom

VESSEL Alpha Helix		PROJECT & LEG HX200			STATION DESIGNATION NJCO		
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE DAY MO	TIME (GMT) HR MIN	DRY BULB °C	WET BULB °C	SEA STATE VISIBILITY FRESHNESS DIRN. D.
027 58 42.4	42.4 N 168 14.1 W		SEP 97	13 47 04	0 24	15 0	WIND D SP DIRN. H WEATHER TYPE CLOUD (gmt)
CTD	TIMES JD/TIME	Avg					BOTTOM DEPT H (m)
TYPE & SN	911+	DATA ON					STA. NAME/ID
PRESS SN	#50405	START DOWN					
TEMP SN	#1390	AT DEPTH					
COND SN	#1072	AT SURFACE					
TEMP SN		<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input checked="" type="checkbox"/> CHLAM <input checked="" type="checkbox"/> TRANSMISSOMETER					
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	Scil. Nuts. OTHER
1	44.5						02701
2	19.8						
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

VESSEL Alpha Helix		PROJECT & LEG HX200		W15		STATION DESIGNATION A/C 04	
CON SC CAST #		LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD=	TIME (GMT) DAY MO YR	WET BULB (°C)	WIN DIRN. (deg)
02858447	44°44'7"	1681357W	1681357W	9714 SEP	18/05	014	130
CTD	TYPE & SN 911+	TIMES DATA ON PRESS SN #50405	JD/TIME AVG START DOWN AT DEPTH	JD/TIME AT SURFACE	<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input type="checkbox"/> CHIAM	<input type="checkbox"/> TRANSMISOMETER	MAX. DEPTH = m
COND SN	COND SN #1072						
TEMP SN							
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	
1	43.7	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAMPLE BOTTLE NUMBER Soli. Nuts. Other
2	19.5					02801	
3	-1.9					02802	
4						02803	
5							
6							
7							
8							
9							
10							
11							
12							

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION NICOI	
CON SC CAST #	Latitude deg min	Longitude deg min	Date JD=	TIME (GMT)	WET BULB TEMP (°C)
			DAY MO YR	HR MIN	(mb)
0315851.71 N	68 05.74	W29 SEP 97	154 41.0	0	150 6
0315851.71 N	68 05.74	W29 SEP 97	154 41.0	0	150 6
CTD	TIMES	JD/TIME A-U6	DATA LOCATION	REMARKS	
TYPE & SN	911+	DATA ON	Tape/Diskette ID	File Name/Header	
PRESS SN	#50405	START DOWN			
TEMP SN	#1390	AT DEPTH			
COND SN	#1072	AT SURFACE			
TEMP SN		<input checked="" type="checkbox"/> PAR <input type="checkbox"/> FLUOR <input type="checkbox"/> CHIAM <input type="checkbox"/> TRANSMISSOMETER		MAX. DEPTH = 40 m	
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA
	PRESSURE	PRI. TEMP.	SEC. TEMP.	SAINITY	SALINITY
1	40.1				03101
2	13.8				
3	13.9				
4	13.7				
5	3.2				
6	2.6				
7	2.3				
8					
9					
10					
11					
12					

PG — OF —

VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX200		All D05	
CON SC CAST #		LATITUDE	LONGITUDE	DATE JD=	
		DEG	MIN	DAY	MO
03458	40.76N	16810.69W	29	971	740125
3					
CID	TYPE & SN	TIMES	JD/TIME	DATA LOCATION	
	911+	DATA ON	AUG	REMARKS	
PRESS SN	#50405	START DOWN		Tape/Diskette ID	File Name/Header
TEMP SN	#1390	AT DEPTH			
COND SN	#1072	AT SURFACE			
TEMP SN				MAX. DEPTH =	m
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY
1	43.8				SAMPLE BOTTLE DATA
2	10.8				SAMPLE BOTTLE NUMBER
3	1.3				Sci. Nuts. OTHER
4					
5					
6					
7					
8					
9					
10					
11					
12					

PAR FLUOR CHIAM TRANSMISSOMETER

VESSEL Alpha Helix		PROJECT & LEG HX200						STATION DESIGNATION NIDOC											
CON SC CAST #	CAST #	LATITUDE			LONGITUDE			DATE JD =			TIME (GMD)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	WIND DIRN. (deg)	BOTTO M DEPT H (m)	STA. NAME / ID		
		DEG	MIN	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN		TYPE CLoud (amt)	WEATHER DIRN. (deg)				
035	583	84	3	N	16	48	13	28	W	2019	07	07	97	10	5	9845	150	6176	51 N 1 D 0 4
CTD	TYPE & SN	TIMES			JD/TIME			/b- DATA LOCATION ⁵						REMARKS					
	911+	DATA ON						Tape/Diskette ID						File Name/Header					
PRESS SN	#50405	START DOWN																	
TEMP SN	#1390	AT DEPTH																	
COND SN	#1072	AT SURFACE																	
TEMP SN		<input checked="" type="checkbox"/> PAR			<input checked="" type="checkbox"/> FLUOR			<input type="checkbox"/> CHI/AM <input type="checkbox"/> TRANSMISSOMETER											
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES						SAMPLE BOTTLE DATA						SAMPLE BOTTLE NUMBER					
		PRESSURE			PRI. TEMP.			SEC. TEMP			SALINITY			SCI.	NUTS.	OTHER			
1	46.5										03561								
2	13.2																		
3	1.2																		
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

PG — OF —

Wenstan
2/14/96 ✓

VESSEL		PROJECT & LEG		WAT		STATION DESIGNATION	
Alpha Helix		HX200		✓		N1D11	
CON SC CAST #		LATITUDE	LONGITUDE	DATE JD=		2 ^o K	BOTTOM DEPT H (m)
DEG MIN	DEG MIN	DAY MO	HR MIN	TIME (GMT)	D SP DIRN. D.	WIN D SP DIRN. D.	WEATHER
0 38 58	24.79	N 16 82	6.31	SEP 97	22 28	WET BULB PRECIPURE	CLOUD (gmt)
CTD	TIMES	JD/TIME	29AUG	(°C)	(mb)	WIND D (m/s)	
TYPE & SN	911+	DATA ON		(°C)	(deg)	DIRN. (m/s)	
PRESS SN	#50405	START DOWN					
TEMP SN	#1390	AT DEPTH					
COND SN	#1072	AT SURFACE					
TEMP SN		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input type="checkbox"/> CHAM	<input type="checkbox"/> TRANSMISSOMETER		
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER
	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY		Sci.	Nuts.
1	58.7					OTHER	
2	36						
3	20.9						
4	2.1						
5							
6							
7							
8							
9							
10							
11							
12							

REMARKS
 This is the standard water we can see
 green water ahead

MAX. DEPTH = 60 m

Vessel
24/16

PG — OF —

VESSEL Alpha Helix			PROJECT & LEG HX200			STATION DESIGNATION NID 116 green						
CON SC CAST #	LATITUDE		LONGITUDE		DATE JD =	TIME (GMT)	DRY BULB	WET BULB	BOTTOM DEPTH H	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY MO YR	HR MIN	(°C)	(mb)	(m)			
039 58.1 17.3	N	116 83.6 7.6	W	S E P 97 22 42 0.5	.94532159					1.2 NID 116		
CTD	TIMES		JD/TIME		DATA LOCATION						REMARKS	
TYPE & SN	911+		DATA ON		Tape/Diskette ID	File Name/Header					green water - we've seen	
PRESS SN	#50405		START DOWN		2250							
TEMP SN	#1390		AT DEPTH								it looks but not so strong	
COND SN	#1072		AT SURFACE								at front	
TEMP SN			<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHIAM	<input checked="" type="checkbox"/> TRANSMISSOMETER						
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES						SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER	
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY		SALINITY		Sci.	Nuts.	OTHER	
1	57.2								03901			
2	30.1											
3	22.7											
4	1.4											
5												
6												
7												
8												
9												
10												
11												
12												

039024

Speculation that color is due to coccolithophores

PG — OF —

VESSEL Alpha Helix			PROJECT & LEG HX200			STATION DESIGNATION A/E/1		
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD=	TIME (GMT)	DRY BULB °C	WET BULB °C	PRESSURE (mb)	BOTTO M DEPT H (m)
			DAY MO	HR MIN	(°C)	(°C)	DIRN. D.	WEATHER TYPE
040 58 25.2	12 N 06 32.1	05W	23097	23271	041	.9556	2051	62N1E11
CTD	TIMES	JD/TIME 79 Aug 8	DATA LOCATION			REMARKS		
TYPE & SN	911+	DATA ON	Tape/Diskette ID	File Name/Header		<i>green dragon</i>		
PRESS SN	#50405	START DOWN						
TEMP SN	#1390	AT DEPTH						
COND SN	#1072	AT SURFACE						
TEMP SN		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHAM	<input checked="" type="checkbox"/> TRANSMISSOMETER			
TRIP POS	DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY			Sal. Nuts. OTHER
1	57.1							
2	30.8							
3	19.3							
4	14.2							
5	1.3							
6								
7								
8								
9								
10								
11								
12								

No bottle

PG — OF —

VESSEL Alpha Helix			PROJECT & LEG HY200			STATION DESIGNATION NIE 7		
CON SC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB	WET BULB
	DEG	MIN	DEG	MIN	DAY	MO	HR MIN	(°C)
041	58	34.40	0	57	W	SEP 970	050/164	9456.200
CTD								8872
								53 NIE 07
TYPE & SN	911+		DATA ON		TIMES	JD/TIME	AUC	DATA LOCATION
PRESS SN	#50405		START DOWN		30	50		Tape/Diskette ID
TEMP SN	#1390		AT DEPTH					File Name/Header
COND SN	#1072		AT SURFACE					
TEMP SN			<input checked="" type="checkbox"/> PAR	<input type="checkbox"/> FLUOR	<input type="checkbox"/> CHAM	<input type="checkbox"/> TRANSMISSOMETER		
POS	TRIP DEPTH		CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA		
			PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAMPLE BOTTLE NUMBER
1	50.7							Nuts.
2	31.0							OTHER
3	15.3							
4	1.6							
5								
6								
7								
8								
9								
10								
11								
12								

VESSEL Alpha Helix		PROJECT & LEG HY200		STATION DESIGNATION NNE 6	
CON SC CAST #	Latitude DEG MIN	Longitude DEG MIN	Date JD=	TIME (GMD)	WET BULB BULB
			DAY MO	HR MIN	(°C)
0435	83.86	N 168.07.95	SEP 97	0142	10.4
CTD	TIMES	JD/TIME 30 AUG	DATA LOCATION	REMARKS	
TYPE & SN	911+	DATA ON	Tape/Diskette ID	File Name/Header	
PRESS SN	#50405	START DOWN	0114		
TEMP SN	#1390	AT DEPTH	0116		
COND SN	#1072	AT SURFACE			
TEMP SN		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHAM	<input checked="" type="checkbox"/> TRANSMISSOMETER
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA
	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE NUMBER
1	45.9				Sci. Nuts. OTHER
2	30.6				0430
3	16.7				
4	0.8				
5					
6					
7					
8					
9					
10					
11					
12					

PG — OF —

VESSEL Alpha Helix	PROJECT & LEG HX200		STATION DESIGNATION <u>A/E 5</u>														
			CON SC CAST #		LATITUDE		LONGITUDE		DATE JD =			TIME (GMT)		DRY BULB	WET BULB	BOTTO M DEPT	WEATHER H
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(mb)	DIRN.	TYPE CLOUD (amt)	CLD. %			
044	58	39.4	5	N	148	51.1	W	SEP	97	051/31/02	.9	68	12	100	100	1605	
CTD																	
TYPE & SN	911+		DATA ON				JD/TIME			20 AUG		DATA LOCATION		REMARKS			
PRESS SN	#50405											Tape/Diskette ID	File Name/Header				
TEMP SN	#1390																
COND SN	#1072																
TEMP SN																	
POS	TRIP DEPTH																
1	45																
2	31.2																
3	14.8																
4	14.4																
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
CTD CONVERTED MONITOR VALUES																	
POS	PRESSURE		PRI. TEMP.		SEC. TEMP		SALINITY			SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER					
1												Sal.	Nuts.	Other			
2												4401					
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

PG — OF —

VESSEL Alpha Helix		PROJECT & LEG HX200				WKF15				STATION DESIGNATION N 1E 3	
CON SC CAST #		LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD=	(GMD)	TIME HR MIN	DRY BULB	WET BULB	WIND DIRN.	BOTTO M DEPT H	STA. NAME/ID
24	55	58 43.8	88 N 16 00.1 ZW	S E F 97	219103	.03	9346	180	180	7	872-47NIE03
CTD		TIMES	JD/TIME Aug 20	DATA ON							REMARKS
TYPE & SN	911+	PRESS SN	#50405	START DOWN	0219						Tape/Diskette ID
TEMP SN	#1390	COND SN	#1072	AT DEPTH							File Name/Header
TEMP SN				AT SURFACE							
				<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input type="checkbox"/> CHAM	<input type="checkbox"/> TRANSMISOMETER				
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES						SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY					Nuts.	OTHER
1	42.1									04501	
2	20.7										
3	11.8										
4	1.4										
5											
6											
7											
8											
9											
10											
11											
12											

Thermocline shallower, less AT (top-bottom)

VESSEL Alpha Helix		PROJECT & LEG HX200				W ¹ , S ²				STATION DESIGNATION N 1 E CO ²				
CON SC CAST #	Latitude	Longitude	Date	JD =	Time	Dry Bulb	Wet Bulb	Wind Dirn.	Wind Spd	Cloud Hgt	Weather	Botto M Dept	H	STA. NAME/ID
DEG MIN	DEG MIN	DEG MIN	DAY	MO	HR	MIN	(°C)	(mb)	(m)	(m)	Type			
0 44 58 46.2 N	117 57.5 W	SEP 07	02 43	.101.9	34	41	70	7871	4611	ED21				
CTD	TIMES	JD/TIME	AUG 20											
TYPE & SN		911+	DATA ON		Tape/Diskette ID	File Name/Header								
PRESS SN	#50405		START DOWN											
TEMP SN	#1390		AT DEPTH											
COND SN	#1072		AT SURFACE											
TEMP SN			<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input type="checkbox"/> CHAM	<input type="checkbox"/> TRANSMISSEOMETER								
POS	TRIP DEPTH.	CTD CONVERTED MONITOR VALUES						SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY			SALINITY		Soil.	Nuts.	Other		
1	40.9													
2	21.2													
3	11.5													
4	0.7													
5														
6														
7														
8														
9														
10														
11														
12														

NO. 5740

PG — OF —

VESSEL Alpha Helix			PROJECT & LEG HX200			W. M. S. M.			STATION DESIGNATION N T E X 4		
CON SC	CAST #	LATITUDE	LONGITUDE	DATE	JD=	TIME	DRY	WET	WIN	BOTTOM DEPT	STA. NAME/D
		DEG MIN	DEG MIN	DAY	MO	HR	BULB	BULB	D SP	H	
049	58 57.8	8 N	67 45.5 W	SEP 97	C 4 2 9	9.6	9.6	9.6	DIRN.	(m)	
CTD											
TYPE & SN	911+	DATA ON									
PRESS SN	#50405	START DOWN	0 4 2 9								
TEMP SN	#1390	AT DEPTH									
COND SN	#1072	AT SURFACE									
TEMP SN		PAR	<input checked="" type="checkbox"/>	FLUOR	<input checked="" type="checkbox"/>	CHAM	<input checked="" type="checkbox"/>	TRANSMISSOMETER			
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES						SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER		
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY			Sci.	Nuis.	OTHER	
1	37.8							04901			
2	30.8										
3	18.9										
4	10.2										
5	0.4										
6											
7											
8											
9											
10											
11											
12											

No thermocline

VESSEL Alpha Helix		PROJECT & LEG HX200				STATION DESIGNATION NIE X 6			
CON SC CAST #		LATITUDE	LONGITUDE	DATE JD=		TIME (GMD)	DRY BULB	WET BULB	DEPTH M DEPT
DEG	MIN	DEG	MIN	DAY	MO	HR MIN	(°C)	(°C)	(m)
050	59	62.5	0 N	167	39.3 L W	SEP 97	10512	93	924170
050	59	62.5	0 N	167	39.3 L W	SEP 97	10512	93	8872
CTD		TIME		JD/TIME		AUG 6		MAX. DEPTH = 37 m	
TYPE & SN		911+		DATA ON		Tape/Diskette ID		File Name/Header	
PRESS SN	#50405			START DOWN					
TEMP SN	#1390			AT DEPTH					
COND SN	#1072			AT SURFACE					
TEMP SN				<input checked="" type="checkbox"/> PAR	<input type="checkbox"/> FLUOR	<input type="checkbox"/> CHLAM	<input type="checkbox"/> TRANSMISSEOMETER		
DATA LOCATION									
REMARKS									
POS		TRIP DEPTH		CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	
				PRI. TEMP.	SEC. TEMP.	SALINITY		SAMPLE BOTTLE NUMBER	
1	31.7							Sal.	Nuts.
2	30.9							05601	OTHER
3	20.5								
4	9.4								
5	0.6								
6									
7									
8									
9									
10									
11									
12									

inside front

VESSEL Alpha Helix		PROJECT & LEG HX200			STATION DESIGNATION N E X / C			
CON SC CAST #	LATITUDE	LONGITUDE	DATE	JD=	TIME (GMT)	DRY BULB	WET BULB	
	DEG MIN	DEG MIN	DAY	MO	HR MIN	(°C)	(°C)	
052 59 11	.85 N	147 29.0	1/W	SEP 97	0634	9.3	9.3	
CTD	TIMES	JD/TIME	30 °C	AUG 6	DATA LOCATION	REMARKS		
TYPE & SN	911+	DATA ON			Tape/Diskette ID	File Name/Header		
PRESS SN	#50405	START DOWN	0637					
TEMP SN	#1390	AT DEPTH						
COND SN	#1072	AT SURFACE						
TEMP SN					<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHAM	<input checked="" type="checkbox"/> TRANSMISSOMETER
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER
	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	Nuts.	OTHER	Sal.
1	36.4							
2	29.7							
3	20.6							
4	10							
5	0.7							
6								
7								
8								
9								
10								
11								
12								

*remove
NE XC*

VESSEL Alpha Helix		PROJECT & LEG HX200		W.L.S.		STATION DESIGNATION N.J. EX 12												
CON SC CAST #	LATITUDE	LONGITUDE	DATE	JD=	TIME	DRY BULB	WET BULB	RESURGE	SEA STATE	VISIBILITY	WIND DIRN. D.	WIND GUST DIRN. D.	WEATHER	BOTTOM M DEPT H	STA. NAME/ID			
	DEG MIN	DEG MIN	DAY	MO YR	HR MIN	(°C)	(°C)	(mb)	(deg)	(m)	(m/s)	*	*	*	(m)			
05357211.1	N	11718.8	ZW	SEP 9	0754	9.6	9.6	926	176	9	1.7			32.7	EX 12			
CTD	TIMES	JD/TIME AVG	DATA LOCATION	REMARKS														
TYPE & SN	911+	DATA ON	Tape/Diskette ID	File Name/Header														
PRESS SN	#50405	START DOWN																
TEMP SN	#1390	AT DEPTH																
COND SN	#1072	AT SURFACE																
TEMP SN		<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input checked="" type="checkbox"/> CHAM <input type="checkbox"/> TRANSMISOMETER																
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES													SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY			
1	29.7																	
2	28.0																	
3	10.0																	
4	0.6																	
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

high chl

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION NIE X12	
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	
	DEG MIN	DEG MIN	DAY MO YR	DRY BULB	WET BULB
05 45 21	17 N	18 6 W	930 SEP 97	16 08	14.0
05 45 21	17 N	18 6 W	930 SEP 97	16 08	14.0
CTD	TIMES	JD/TIME	Avg	DATA LOCATION	REMARKS
TYPE & SN	911+	DATA ON		Tape/Diskette ID	File Name/Header
PRESS SN	#50405	START DOWN			
TEMP SN	#1390	AT DEPTH			
COND SN	#1072	AT SURFACE		<input checked="" type="checkbox"/> PAR	
TEMP SN				<input checked="" type="checkbox"/> FLUOR	
				<input checked="" type="checkbox"/> CHAM	
				<input checked="" type="checkbox"/> TRANSMISSOMETER	
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY
1	27.9				Sal. Nuts. OTHER
2	21.2				05401
3	21.3				
4	21.2				
5	0.4				
6	0.8				
7	1.7				
8					
9					
10					
11					
12					

first cast after station

W 1 m

PG — OF —

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION A1 C X1/2													
CON SC CAST #	LATITUDE	LONGITUDE	DATE	JD=	TIME	DRY BULB	WET BULB	SEA STATE	WIND DIRN.	BOTTO M DEPT H	STA. NAME/ID						
DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	(mb)	(deg)	(m/s)	*						
057	59 24.4	N	16 729.4	3 WO 2	SEP 97	15 57	8.0	184	230	06	33 N 1 CX1/2						
CID	TIMES	JD/TIME	DATA LOCATION										REMARKS				
TYPE & SN	911+	DATA ON	Tape/Diskette ID										File Name/Header				
PRESS SN	#50405	START DOWN	1554										green				
TEMP SN	#1390	AT DEPTH															
COND SN	#1072	AT SURFACE															
TEMP SN		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR <input checked="" type="checkbox"/> CHIAM <input checked="" type="checkbox"/> TRANSMISOMETER														
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES												SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER		
	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY										SALINITY	Sal.	Nuts.	OTHER
1	28.3	8.77													5901		
2	19.6														02801		
3	9.9														07804		
4	2.0																
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

Surf Sal 28.01 m Saline

59.04

A

VESSEL Alpha Helix		PROJECT & LEG HX200		W.W.M		STATION DESIGNATION N/E X 10	
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	BOTTOM DEPTH H
	DEG MIN	DEG MIN	DAY MO	HR MIN	(°C)	(mb)	TYPE D. DIRN.
038 51 19.9	1 16 73	1 16 73	9.8 3 W	2 SEP 97	17 32	17.8	SEA STATE VISIBILITY
038 51 19.9	1 16 73	1 16 73	9.8 3 W	2 SEP 97	17 32	1936	WIND DIRECTION
						24604	WIND SPEED (m/s)
						872	WATER DEPTH (m)
						3912	CLLOUD (amt)
						3912	WEATHER
						3912	STA. NAME/ID
CTD	TIMES		JD/TIME	DATA LOCATION		REMARKS	
TYPE & SN	911+	DATA ON		Tape/Diskette ID	File Name/Header	<i>of Lee et al</i>	
PRESS SN	#50405	START DOWN	1732				
TEMP SN	#1390	AT DEPTH					
COND SN	#1072	AT SURFACE					
TEMP SN		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input type="checkbox"/> CHAM	<input type="checkbox"/> TRANSMISOMETER		
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	
	PRESSURE	PRL TEMP.	SEC. TEMP	SALINITY	SALINITY	SAMPLE BOTTLE NUMBER	
1	35.8					Sci.	Nuts.
2	30.3					05801	OTHER
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX200		N1EX08	
CON SC CAST #	Latitude	Longitude	DATE JD=	TIME (GMT)	WET BULB
DEG	MIN	DEG	MO	HR MIN	(°C)
059	59	103	2	N 67 45.0	1836
				E 02.5	240
				S 97	05
					872
					40N1EX08
CTD	TIMES	JD/TIME	DATA LOCATION		
TYPE & SN	911+	DATA ON	Tape/Diskette ID	File Name/Header	
PRESS SN	#50405	START DOWN			
TEMP SN	#1390	AT DEPTH			
COND SN	#1072	AT SURFACE			
TEMP SN		<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input type="checkbox"/> CHIAM <input type="checkbox"/> TRANSMISSOMETER			
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA
	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE NUMBER
1	34.7			05901	Sci. Nuts. Other
2	30.8				
3	20.0				
4	9.7				
5	1.1				
6					
7					
8					
9					
10					
11					
12					

VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX200		NICKOLE	
CON SC CAST #	Latitude	Longitude	DATE JD =	TIME (GMD)	WET BULB
DEG MIN	DEG MIN	DAY MO	HR MIN	(°C)	PRESSURE
060596	5.48	N 16750	16w02s	18.4	967
			E P 97		WIN D SP
					WEATHER
					CLOUD (amt)
					DIRN. D.
					DIRN. (deg)
					(m/s)
					m/s
					(m)
CTD	TIMES	JD/TIME	DATA LOCATION	REMARKS	
TYPE & SN	911+	DATA ON	Tape/Diskette ID	File Name/Header	
PRESS SN	#50405	START DOWN	\ 914		
TEMP SN	#1390	AT DEPTH			
COND SN	#1072	AT SURFACE			
TEMP SN		<input checked="" type="checkbox"/> PAR	<input type="checkbox"/> FLUOR	<input type="checkbox"/> CHAM	<input type="checkbox"/> TRANSMISSOMETER
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY
1	33.2				SALINITY
2	29.8				Scil.
3	20.6				Nuts.
4	10.2				OTHER
5	1.4				O6(u)1
6					
7					
8					
9					
10					
11					
12					

VESSEL Alpha Helix			PROJECT & LEG HX200			TIME			STATION DESIGNATION A/C X02				
CON SC CAST #	LATITUDE		LONGITUDE		DATE JD=	DRY BULB	WET BULB	WIND DIRN.	BOTTO M DEPT	WEATHER TYPE	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY MO YR	(°C)	(mb)	(deg)	(m)	*	*		
62	50	37	157	05	17 W 2 SEP 97	19	13	1225	05	4	12 A/C X02		
CTD	TIMES		JD/TIME		DATA LOCATION						REMARKS		
TYPE & SN	911+	DATA ON		Tape/Diskette ID						File Name/Header			
PRESS SN	#50405	START DOWN											
TEMP SN	#1390	AT DEPTH											
COND SN	#1072	AT SURFACE											
TEMP SN		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHLAM	<input checked="" type="checkbox"/> TRANSMISOMETER						MAX. DEPTH = m		
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA	
	PRESSURE	PRI. TEMP.		SEC. TEMP		SALINITY		SALINITY		SAMPLE BOTTLE NUMBER			
1	46.2									Sal. Nuts. OTHER			
2	29.9									412006201			
3	20.4												
4	10.1												
5	1.4												
6													
7													
8													
9													
10													
11													
12													

4 5 6 7 8 9 10 11 12

VESSEL Alpha Helix		PROJECT & LEG HX200		WKT 1 m		STATION DESIGNATION Alcosol	
CON SC CAST #	Latitude	Longitude	Date	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)
DEG MIN	DEG MIN	DAY	MO	HR	MIN	SEASCAPE VISIBILITY	WIND D SP (m/s)
63 58 51.4	141 16 80 57.2	W 02 SEP 97	21	12	8.1	1946 22 50 6	N
						872	13 N/C 0/
CTD		TIMES		JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	911+	DATA ON			Tape/Diskette ID	File Name/Header	
PRESS SN	#50405	START DOWN					
TEMP SN	#1390	AT DEPTH					
COND SN	#1072	AT SURFACE					
TEMP SN		PAR	FLUOR	CHAM	TRANSMISOMETER		
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAL.	SAMPLE BOTTLE NUMBER
1	40.9					Nuts	OTHER
2	30.5						
3	20.6						
4	10.2						
5	2.4						
6							
7							
8							
9							
10							
11							
12							

9
10
11
12

VESSEL Alpha Helix			PROJECT & LEG HX200			STATION DESIGNATION N(0)									
CON SC CAST #	LATITUDE		LONGITUDE		DATE	JD=	TIME	DRY BULB	WET BULB	RESISTANCE	SEA STATE	WIND D SP DIRN. D.	WIND M DEPT H	BOTTOM STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	(°C)	(mb)	(deg)	(m/s)	(m)		
	16	56	47	37	16	05	22	30	21.3	103	17	146.2	872	45 N 100 E	
CTD	TIMES			JD/TIME			DATA LOCATION			REMARKS					
TYPE & SN	911+			DATA ON			Tape/Diskette ID			File Name/Header					
PRESS SN	#50405			START DOWN											
TEMP SN	#1390			AT DEPTH											
COND SN	#1072			AT SURFACE											
TEMP SN				<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> ChlAM	<input checked="" type="checkbox"/> TRANSMISOMETER								
POS	TRIP DEPTH			CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER					
				PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY			Sal.	Nuts.	OTHER			
1	113														
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

VESSEL Alpha Helix			PROJECT & LEG HX200			STATION DESIGNATION NICO3			
CON SC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMD)	DRY BULB	WET BULB	REMARKS
	DEG	MIN	DEG	MIN	DAY MO YR	HR MIN	(°C)	(mb)	WEATHER DIRN. D.
105647	10	56	115	11	05W02	2307	15.3	15.3	TYPE DIRN. D.
CTD	TIMES		JD/TIME		DATA LOCATION			SAMPLE BOTTLE DATA	
TYPE & SN	911+	DATA ON			Tape/Diskette ID	File Name/Header		SAMPLE BOTTLE NUMBER	
PRESS SN	#50405	START DOWN							Sal.
TEMP SN	#1390	AT DEPTH							Nurs.
COND SN	#1072	AT SURFACE							OTHER
TEMP SN		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR		<input checked="" type="checkbox"/> CHAM	<input checked="" type="checkbox"/> TRANSMISSOMETER			
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES							
		PRESSURE	FRI TEMP.	SEC. TEMP	SALINITY				
1	43.0				HX20006601				
2	43.3								
3	43.6								
4	43.9								
5	29.8								
6	20.3								
7	10.2								
8	5.6								
9	1.6								
10	0.9								
11	1.4								
12									

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION N1C04								
CON SC	CAST #	LATITUDE	LONGITUDE	DATE	JD=	TIME	DRY BULB	WET BULB	REFRIG.	WIND DIRN.	BOTTO M DEPT H	STA. NAME/ID
		DEG MIN	DEG MIN	DAY	MO	HR	MIN	(°C)	(mb)	TYPE CLD DIRN. D.	WIN SPD (m/s)	WEATHER CODE
06	158 44.71	N	14 51 35.71	W	SEP	9	17	04	84	*	*	12
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS				
TYPE & SN	911+	DATA ON				Tape/Diskette ID		File Name/Header				
PRESS SN	#50405	START DOWN		0105								
TEMP SN	#1390	AT DEPTH										
COND SN	#1072	AT SURFACE										
TEMP SN		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input type="checkbox"/> CHAM	<input type="checkbox"/> TRANSMISSOMETER							
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES						SAMPLE BOTTLE DATA				
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE NUMBER						
1					Sal.	Nut.	OTHER					
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

NO
S/N

VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX200		VIC06	
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	WET BULB
DEG MIN	DEG MIN	MIN	DAY MO YR	HR MIN	BULB
06 45 58	40 0 41	16 8 18.7	1973 SEP 09	0203	8.4
					1946 2300
					872
					51 11 56.06
CTD	TIMES	JD/TIME	DATA LOCATION		
TYPE & SN	911+	DATA ON	Tape/Diskette ID	File Name/Header	REMARKS
PRESS SN	#50405	START DOWN			TRANSITION BTW
TEMP SN	#1390	AT DEPTH			BLACK & GREEN H2O
COND SN	#1072	AT SURFACE			
TEMP SN		<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input checked="" type="checkbox"/> CHIAM <input checked="" type="checkbox"/> TRANSMISSOMETER			MAX. DEPTH = m
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY
1	1000				SALINITY
2					Sal.
3					Nut.
4					Other
5					
6					
7					
8					
9					
10					
11					
12					

T 22m

VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX200		NJC07	
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	WET BULB TEMP
DEG MIN	DEG MIN	MIN	DAY MO	HR MIN	(°C)
070583775	1682132	37W	23	193023	18.4
CTD	TYPE & SN	TIMES	JD/TIME	DATA LOCATION	
	911+	DATA ON		Tape/Diskette ID	File Name/Header
PRESS SN	#50405	START DOWN			
TEMP SN	#1390	AT DEPTH			
COND SN	#1072	AT SURFACE			
TEMP SN		<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input checked="" type="checkbox"/> ChlAM <input checked="" type="checkbox"/> TRANSMISSOMETER			
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA
		PRESSURE	PRI TEMP.	SEC. TEMP	SALINITY
1	41.0				SALT
2	41.0				NUTS
3	30.1				OTHER
4	19.9				07001
5	10.0				
6	1.6				
7					
8					
9					
10					
11					
12					

VESSEL Alpha Helix			PROJECT & LEG HX200			STATION DESIGNATION N/C/C 8								
CON SC CAST #	LATITUDE		LONGITUDE		DATE	JD=	TIME	DRY BULB	WET BULB	BOTTOM DEPTH	WEATHER	CLLOUD (gmt)	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	(°C)	(mb)	DIRN	H		
011 15 83	54	8	11 18 23	47	W	SEP	09	10	04	85	19	46	11 15 83	
CTD	TIMES		JD/TIME		DATA LOCATION			REMARKS						
TYPE & SN	911+		DATA ON		Tape/Diskette ID			File Name/Header						
PRESS SN	#50405		START DOWN											
TEMP SN	#1390		AT DEPTH											
COND SN	#1072		AT SURFACE		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHAM	<input checked="" type="checkbox"/> TRANSMISOMETER						
TEMP SN														
POS	TRIP DEPTH		CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER					
			PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY			Sci.	Nuts.	OTHER			
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

speaks due to nothing

no salt

VESSEL Alpha Helix			PROJECT & LEG HX200			STATION DESIGNATION N 1 C 0 9								
CON SC CAST #	LATITUDE		LONGITUDE		DATE	JD=	TIME	DRY BULB	WET BULB	PRESSURE	VISIBILITY	WIN D SP DIRN.	BOTTO M DEPT H	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	(°C)	(mb)	(deg)	(m/s)	*	
072	58	30	7N	14826.5	1W	3 SEP	97	03	34	8.5	1946	2300	872	58N148E
CTD														
TYPE & SN	911+		DATA ON		JD/TIME		DATA LOCATION		REMARKS					
PRESS SN	#50405		START DOWN				Tape/Diskette ID		File Name/Header					
TEMP SN	#1390		AT DEPTH											
COND SN	#1072		AT SURFACE											
TEMP SN			<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHAM	<input checked="" type="checkbox"/> TRANSMISOMETER								
POS	TRIP DEPTH		CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER						
	PRESSURE		PRI. TEMP.		SEC. TEMP	SALINITY	SALINITY	Sal.	Nuts.	OTHER				
1	53.3							07201						
2	40													
3	30													
4	25.0													
5	12.1													
6	Surf													
7	1													
8														
9														
10														
11														
12														

18

26

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION <i>NIC 10</i>															
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD=	TIME (GMD)	DRY BULB	WET BULB	FREESCAPE	SEA STATE	BOTTOM	WEATHER	WIND D SP	WIND M DEPT	DIRN.	CLD TYPE	WIN (gmt)	DIRN.	STA. NAME/ID		
07358307	5N 16° 29.2'	4W 07° 52.9'	970411	8.4	19	19	19	4	19	4	19	23	872	102	11	10			
CTD	TIMES			JD/TIME	DATA LOCATION												REMARKS		
TYPE & SN	911+	DATA ON	Tape/Diskette ID												File Name/Header				
PRESS SN	#50405	START DOWN																	
TEMP SN	#1390	AT DEPTH																	
COND SN	#1072	AT SURFACE																	
TEMP SN		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input type="checkbox"/> CHAM	<input type="checkbox"/> TRANSMISSOMETER														
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES												SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
		PRESSURE	PRL. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY		
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

No Splt

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION A/C 12																	
CON SC	CAST #	LATITUDE	LONGITUDE	DATE JD=			TIME (GMT)			DRY BULB	WET BULB	PRESSURE		TEMP (°C)	(°C)	(mb)	WIND DIRN.	WIND D SP (m/s)	WIND H (m)	BOTTOM DEPTH (m)	STA. NAME/ID
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	DIRN.	D.	VISIBLTY	SEA STATE	DIRN.	(deg)	(m/s)	*					
61 55 82	6.04	N	16 83 43	2	W	03	09	07	05	16	8.9	1.1	194	623	306	187	21	63 N 1 C 12			
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS		no salt											
TYPE & SN	911+	DATA ON				Tape/Diskette ID		File Name/Header													
PRESS SN	#50405	START DOWN																			
TEMP SN	#1390	AT DEPTH																			
COND SN	#1072	AT SURFACE																			
TEMP SN		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input type="checkbox"/> CHAM	<input type="checkbox"/> TRANSMISSOMETER																
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES												SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER					
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY		Sci.		Nuts.		OTHER									
1																					
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION N/1C/3	
CON SC CAST #	Latitude	Longitude	Date JD=	TIME (GMT)	WET BULB TEMP °C
DEG MIN	DEG MIN	DAY	MO	HR MIN	mb
67 ¹⁵ 32 ^{1.4}	40 ^N	16 ² 39 ^{.4}	CW	3 SEP 97	9.0
14 ⁰	14 ⁰	16 ² 39 ^{.4}	CW	26 ⁵⁰ 3 SEP 97	9.0
CTD		TIMES	JD/TIME	DATA LOCATION	
TYPE & SN	911+	DATA ON	Tape/Diskette ID	File Name/Header	
PRESS SN	#500405	START DOWN			
TEMP SN	#1390	AT DEPTH			
COND SN	#1072	AT SURFACE			
TEMP SN		X PAR X FLUOR CHAM	TRANSMISSOMETER		
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY
1	10.3				Sal. Nuts. OTHER
2	49.4				76.0/
3	40.4				
4	27.7				
5	20.7				
6	10.2				
7	1.5				036.0/
8					
9					
10					
11					
12					

1
WEATHER
CLD TYPE
DIRN. H
WIND D SP
DIRN. D.
VISIBLTY
SEA STATE
WIND DIRN.
DIRN. H
BOTTO M DEPT
H
STA. NAME/ID

1/
WIN D SP
DIRN. D.
VISIBLTY
SEA STATE
WIND DIRN.
DIRN. H
BOTTO M DEPT
H
STA. NAME/ID

1/
WIN D SP
DIRN. D.
VISIBLTY
SEA STATE
WIND DIRN.
DIRN. H
BOTTO M DEPT
H
STA. NAME/ID

REMARKS

1. Under anem
2. Batt Temp < 20

1/
WIN D SP
DIRN. D.
VISIBLTY
SEA STATE
WIND DIRN.
DIRN. H
BOTTO M DEPT
H
STA. NAME/ID

MAX. DEPTH = 60 m

rocking ship

VESSEL	PROJECT & LEG		STATION DESIGNATION											
Alpha Helix	HX200		A/3											
CON SC CAST #	LATITUDE		LONGITUDE		DATE	JD=	TIME	DRY BULB	WET BULB	PRESSURE	WIN D SP	WIN DIRN.	BOTTO M DEPT H	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	(°C)	(mb)	(m/s)	(deg)	(m)	
07 8 58 24 5 9 N	16 85 0 1 2	W 0 3 S	07 8 58 24 5 9 N	16 85 0 1 2	W 0 3 S	07 8 58 24 5 9 N	16 85 0 1 2	W 0 3 S	9.5	1.73	1.9	0 0 4	872	1 2 1 1 1 3
CTD	TYPE & SN		TIMES		JD/TIME		DATA LOCATION		REMARKS					
	911+		DATA ON _____		Tape/Diskette ID _____		File Name/Header _____		N-15420					
PRESS SN	#50405		START DOWN _____		AT DEPTH _____		MAX. DEPTH = m		Slightly murky water					
TEMP SN	#1390		AT SURFACE		<input checked="" type="checkbox"/> PAR		<input checked="" type="checkbox"/> CHLAM		<input checked="" type="checkbox"/> TRANSMISOMETER					
COND SN	#1072		<input checked="" type="checkbox"/> XELUOR											
TEMP SN														
POS	TRIP DEPTH		CTD CONVERTED MONITOR VALUES								SAMPLE BOTTLE DATA			
			PRESSURE		PRI. TEMP.		SEC. TEMP		SALINITY		SALINITY		SAMPLE BOTTLE NUMBER	
4	1 66.0		4.0										Sci. Nuts. Other	
7	2 49.9		5.0											
8	3 40.1		4.0											
9	4 30.1		3.0											
10	5 30.1		4.0											
11	6 30.0		3.0											
12	7 30.1		4.0											
1	8 20.4		2.0											
2	9 1.2		2.0											
3	10 1.2		2.0											
4	11 1.3		2.0											
5	12 1.4		2.0											

VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX200		N 1 C x 4	
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD = DAY MO YR HR MIN	TIME (GMD) (°C)	WET BULB DIRN. DIRN. SEA STATE VISIBILITY CLD SP WEATHER TYPE CLD (cm) WIN D H BOTTO M DEPT H STA. NAME / ID
41 59 01.1	N 09 55 20 W	10 09 20 97 10	231607512	19.3 (m)	127 (m/s) 1872172X/1C X 4
CTD	TYPE & SN	911+	TIMES	JD/TIME	DATA LOCATION
PRESS SN	#50405		DATA ON	Tape/Diskette ID	File Name/Header
TEMP SN	#1390		START DOWN		
COND SN	#1072		AT DEPTH		
TEMP SN			AT SURFACE		
			<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	MAX. DEPTH = m
				<input checked="" type="checkbox"/> CHIAM	<input checked="" type="checkbox"/> TRANSMISSOMETER
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER	
		PRESSURE	PRI. TEMP.	SEC. TEMP.	
1	15.5			SALINITY	
2	14.6				
3	14.3				
4	14.9				
5	16.1				
6	5.1				
7	1.3				
8	1.3				
9	2.6				
10	1.6				
11					
12					

VESSEL		PROJECT & LEG		STATION DESIGNATION	
060 Alpha Helix		HX200		N/1 C X 4	
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD =	TIME (GMD)	WET BULB TEMP TYPE
DEG MIN	DEG MIN	MIN	DAY MO YR	HR MIN (°C)	DIRN. DIRN. H
50 59 01.2	29 N	167 55 49 W	1 SEP 97	20 47	1.7
					23 54
					08 01
					8 72
					7 21
					7 21
					X 4
CTD	TIMES		JD/TIME	DATA LOCATION	
	TYPE & SN	911+	DATA ON	Tape/Diskette ID	File Name/Header
PRESS SN	#50405		START DOWN		
TEMP SN	#1390		AT DEPTH		
COND SN	#1072		AT SURFACE		
TEMP SN			<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHAM <input checked="" type="checkbox"/> TRANSMISSOMETER
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA	
	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE NUMBER
1	154				Stl. Nuts. OTHER
2	156				
3	147				
4	1.2				
5	1.8				
6	1.6				
7	1.8				
8					
9					
10					
11					
12					

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION K/A X4											
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	WIN D SP	BOTTO M DEPT H	WEATHER TYPE	CLOUD CLD	DIRN. DIRN. D.	STA. NAME/ID			
81 59 04.2	22 N 06.17 W	168 06.17	SEP 97	23 01	9.1	025	075	0	*	*					
CTD	TIMES	JD/TIME	DATA ON	Tape/Diskette ID	DATA LOCATION			REMARKS							
TYPE & SN	911+		START DOWN												
PRESS SN	#50405		AT DEPTH												
TEMP SN	#1390		AT SURFACE												
COND SN	#1072				<input checked="" type="checkbox"/> PAR	<input type="checkbox"/> FLUOR	<input type="checkbox"/> CHIAM	<input type="checkbox"/> TRANSMISSOMETER							
TEMP SN															
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES													
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER							
1					SALINITY				Sal.	Nuts.	OTHER				
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

VESSEL Alpha Helix			PROJECT & LEG HX200			STATION DESIGNATION AJ14X2								
CON SC CAST #	LATITUDE		LONGITUDE		DATE	JD=	TIME	DRY BULB	WET BULB	RESISTANCE	WIN D SP DIRN. H	BOTTOM M DEPT	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	(°C)	(mb)	(deg)	(m/s)	*	
082 53 59	16	57	16	57	1	SEP	97	23	58	8.9	0/5	07	0.9	
CTD	TIMES		JD/TIME		DATA LOCATION			REMARKS						
TYPE & SN	911+		DATA ON		Tape/Diskette ID			File Name/Header						
PRESS SN	#50405		START DOWN											
TEMP SN	#1390		AT DEPTH											
COND SN	#1072		AT SURFACE		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHAM	<input checked="" type="checkbox"/> TRANSMISSOMETER						
TEMP SN														
MAX. DEPTH = 40,5 m														
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES						SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	NuTs.	OTHER	
1	40.5													
2	29.1													
3	19.9													
4	10.4													
5	0.8													
6														
7														
8														
9														
10														
11														
12														

getting rough
well mixed

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION <u>AUT451</u>											
CON SC CAST #	Latitude DEG MIN	Longitude DEG MIN	DATE JD=	TIME (GMD)	DRY BULB	WET BULB	RESISTANCE	WIN D SP	WIN DIRN.	BOTTOM DEPT	STA. NAME/ID				
18°54'4.9"	N	68°16'9.7"	W	970515	0049	88	015	060	09	0					
CTD				TIMES	JD/TIME	DATA LOCATION		REMARKS							
TYPE & SN	911+	DATA ON	Tape/Diskette ID		File Name/Header										
PRESS SN	#50405	START DOWN													
TEMP SN	#1390	AT DEPTH													
COND SN	#1072	AT SURFACE													
TEMP SN		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHAM	<input checked="" type="checkbox"/> TRANSMISSOMETER										
TRIP DEPTH		CTD CONVERTED MONITOR VALUES													
POS	DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER							
1	40.0				SALINITY	Sal.	Nuts.	OTHER	<u>08301</u>						
2	31.4														
3	20.8														
4	9.8														
5	1.8														
6															
7															
8															
9															
10															
11															
12															

VESSEL Alpha Helix 054			PROJECT & LEG HX200			STATION DESIGNATION K1A2									
CON SC CAST #	LATITUDE		LONGITUDE		DATE	JD=	TIME	DRY BULB	WET BULB	PRESSURE	SEA STAILTY	BOTTOM DEPTH	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	(°C)	(mb)	DIRN.	TYPE			
68°44'58"	51.69	N	16°8'19.2	S	W	5	SEP	97	01	30	8.7	H	WATER		
CTD	TIMES		JD/TIME		DATA LOCATION			REMARKS							
TYPE & SN	911+		DATA ON		Tape/Diskette ID			File Name/Header							
PRESS SN	#50405		START DOWN												
TEMP SN	#1390		AT DEPTH												
COND SN	#1072		AT SURFACE												
TEMP SN			<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHAM	<input checked="" type="checkbox"/> TRANSMISSOMETER									
POS	TRIP DEPTH	CID CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY			SAMPLE BOTTLE NUMBER							
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

No Sample
Not Taken

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION NJA-03	
CON SC CAST #	Latitude	Longitude	Date JD=	TIME (GMT)	WET BULB TEMP
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)
085	50.30 N	14821.86 W	5 SEP 97	1212	8.1
CTD	TYPE & SN	TIMES	JD/TIME 8/2	DATA ON	REMARKS
PRESS SN	#50405			DATA ON	Tape/Diskette ID File Name/Header
TEMP SN	#1390			START DOWN	
COND SN	#1072			AT DEPTH	
TEMP SN				AT SURFACE	
POS	TRIP DEPTH			<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input checked="" type="checkbox"/> CHIAM <input checked="" type="checkbox"/> TRANSMISOMETER	
CTD CONVERTED MONITOR VALUES					
	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA
1	44.7				SAL. OTHER
2	40.5				08501
3	30.1				
4	20.1				
5	10.4				
6	3.0				
7					
8					
9					
10					
11					
12					

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION N 1404	
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD = DAY MO YR	TIME (GMD) HR MIN (°C)	WET BULB DIRN. TYPE CLoud (cm)
CTD	911+	911+	911+	911+	911+
PRESS SN	#50405	DATA ON	Tape/Diskette ID	File Name/Header	RESSURE WET BULB DIRN. D.
TEMP SN	#1390	START DOWN			WEATHER DIRN. H.
COND SN	#1072	AT DEPTH			SEA STATE CLoud (cm)
TEMP SN		AT SURFACE			STA. NAME/ID
		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHIAM	
				<input checked="" type="checkbox"/> TRANSMISSOMETER	
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA
	/ PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE NUMBER
1				SALINITY	Sal. Nuts. OTHER
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION N/A05																							
CON SC	CAST #	LATITUDE		LONGITUDE		DATE		JD =		TIME		DRY BULB		WET BULB		FRES SURE		SEA STATE		WIN D SP.		BOTTO M DEPT H		STA. NAME/ID			
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(deg)	(°C)	(°C)	(mb)	(deg)	(m)	(m/s)	*	TYPE CLOUD DIRN. D.	*	WEATHER DIRN. H.	*	CLD DIRN. D.	*	WIND DIRN. H.	*	WIND DIRN. H.		
087	58'9"	N	51'1"	168	27.1	5W	52	59	1334	8.8	8.8	0.996	0.50	11	1	49	N	1405	-								
CTD		TIMES		JD/TIME		1980		DATA LOCATION																			
TYPE & SN	911+	DATA ON						Tape/Diskette ID		File Name/Header																	
PRESS SN	#50405	START DOWN																									
TEMP SN	#11390	AT DEPTH																									
COND SN	#1072	AT SURFACE																									
TEMP SN		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input type="checkbox"/> CHAM	<input type="checkbox"/> TRANSMISSOMETER																						
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES												SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER											
		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTS.		OTHER											
		1	45.7																								
		2	36.4																								
		3	36.4																								
		4	35.9																								
		5	35.4																								
		6	20.0																								
		7	20.5																								
		8	20.8																								
		9	2.6																								
		10																									
11																											
12																											

34578

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION N 1 A06		
CON SC CAST #	Latitude	Longitude	Date JD=	TIME (GMT)	WET BULB FRESSURE	
	DEG MIN	DEG MIN	DAY MO	HR MIN	(°C) (mb)	
0 8 58	43.2	78 N	1 6 8 29.6	17	8.8	
			SEP 07	C 4 / C		
					996	
					0 5 6 1 1	
					1 2 5 2 N 1 A 0 6	
CTD	TIMES		JD/TIME <i>A06S</i> <i>Sep</i>	DATA LOCATION		REMARKS
TYPE & SN	911+	DATA ON		Tape/Diskette ID	File Name/Header	<i>Plan 1.16.10</i> <i>N 10 Salt</i>
PRESS SN	#50405	START DOWN				
TEMP SN	#1390	AT DEPTH				
COND SN	#1072	AT SURFACE				
TEMP SN		X PAR	FLUOR	CHAM	TRANSMISSOMETER	
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA	
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE NUMBER
1		/				Sal. Nuts. OTHER
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

VESSEL Alpha Helix			PROJECT & LEG HX200			STATION DESIGNATION AIA07											
CON SC CAST #	LATITUDE		LONGITUDE		DATE	JD=	TIME	DRY BULB	WET BULB	RESUME	WIND DIRN.	D SP D.	WIN G(M)	TYPE CL	M DEPT H	BOTTO STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	(°C)	(mb)	(deg)	(m/s)	*	*	(m)		
0895846.9	51	46	1632.1	8	W	5	SEP	970	449	8.7	.996	060	11	1	53N 1407		
CTD	TIMES		JD/TIME		DATA LOCATION			REMARKS									
TYPE & SN	911+		DATA ON		Tape/Diskette ID			File Name/Header									
PRESS SN	#50405		START DOWN														
TEMP SN	#1390		AT DEPTH														
COND SN	#1072		AT SURFACE														
TEMP SN			<input checked="" type="checkbox"/> PAR		<input checked="" type="checkbox"/> FLUOR			<input checked="" type="checkbox"/> CHAM			<input checked="" type="checkbox"/> TRANSMISSOMETER						
POS	TRIP DEPTH		CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER								
			PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY				SALINITY							
1	41.5																
2	38.6																
3	30.1																
4	23.7																
5	9.8																
6	1.7																
7																	
8																	
9																	
10																	
11																	
12																	

VESSEL Alpha Helix			PROJECT & LEG HX200			STATION DESIGNATION N/L A09												
CON SC CAST #	LATITUDE		LONGITUDE		DATE	JD=	TIME	DRY BULB (°C)	WET BULB (°C)	VISIBILITY (m)	SEA STATE (deg)	BOTTOM DEPTH H (m)	WEATHER TYPE DIRN. D.	CLOUD (amt)	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	HR	MIN										
040	58	36	26	N	16	83	37	33	W	5	SEP	97	0548	8.7	1.986	00511	2	58NTA09
CTD	TIMES		JD/TIME		DATA LOCATION			REMARKS										
TYPE & SN	911+		DATA ON		Tape/Diskette ID			File Name/Header										
PRESS SN	#50405		START DOWN															
TEMP SN	#1390		AT DEPTH															
COND SN	#1072		AT SURFACE															
TEMP SN			<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHAM	<input checked="" type="checkbox"/> TRANSMISSOMETER												
POS	TRIP DEPTH		CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER									
			PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY				SALINITY	Sci.	Nuts.	OTHER					
1	52.2										@900/							
2	41.0																	
3	30.4																	
4	23.4																	
5	9.9																	
6	2.1																	
7																		
8																		
9																		
10																		
11																		
12																		

VESSEL Alpha Helix			PROJECT & LEG HX200			STATION DESIGNATION W/1411											
CON SC	CAST #	LATITUDE	LONGITUDE	DATE	JD=	TIME	DRY BULB	WET BULB	RESSURE	WIND DIRN.	WIND DIRN.	WEATHER TYPE	BOTTO M DEPT H	STA. NAME/ID			
DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	(°C)	(mb)	(deg)	(m/s)	*	(m)				
01	58	31.6	15	N	16	42	41	W	5	SEP	970	53	6	3W1411			
CTD	TIMES			JD/TIME			DATA LOCATION			REMARKS							
TYPE & SN	911+	DATA ON				Tape/Diskette ID	File Name/Header			W/1411 GREEN							
PRESS SN	#50405	START DOWN															
TEMP SN	#1390	AT DEPTH															
COND SN	#1072	AT SURFACE															
TEMP SN		PAR															
		FLUOR															
		CHAM															
		TRANSMISSOMETER															
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES									SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	Sci.	Nuts.	OTHER								
1	58.1																
2	48.8																
3	41.9																
4	31.1																
5	24.4																
6	10.2																
7	2.4																
8																	
9																	
10																	
11																	
12																	

M.J. Lake

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION N 1 C 1 3											
CON SC CAST #	LATITUDE	LONGITUDE	DATE	JD=	TIME	DRY BULB	WET BULB	SEA STATE	WIND D SP	WIND DIRN.	BOTTOM H	STA. NAME/ID			
	DEG MIN	DEG MIN	DAY	MO	HR	MIN	(°C)	(mb)	(m/s)	*	*				
0 1 2 3 8 2 1 4 1	N 1 4 1	E 1 8 3 9 6 1 W	S E P 9	S E P 9	5 4	5 2	9.4	7 2 6 5 0 6 6 1 3	8 7 2	1 3	8 7 2	N 1 C 1 3			
CTD	TIMES		JD/TIME		DATA LOCATION		REMARKS								
TYPE & SN	911+	DATA ON	_____	Tape/Diskette ID	File Name/Header	<i>End of XBT record</i> <i>line begin here</i> <i>Name of Slave Bank</i>									
PRESS SN	#50405	START DOWN	_____												
TEMP SN	#1390	AT DEPTH	_____												
COND SN	#1072	AT SURFACE	_____												
TEMP SN		PAR	<input checked="" type="checkbox"/> FLUOR	CHIAM	<input checked="" type="checkbox"/> TRANSMISSOMETER										
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER							
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	Nufs.	OTHER						
1	6 0 4	—	—	—	—	—	0 7 2 0 1								
2	<9.8	—	—	—	—	—									
3	3 8.8	—	—	—	—	—									
4	3 1.0	—	—	—	—	—									
5	2 0.4	—	—	—	—	—									
6	1 0.1	—	—	—	—	—									
7	2.4	—	—	—	—	—									
8	—	—	—	—	—	—									
9	—	—	—	—	—	—									
10	—	—	—	—	—	—									
11	—	—	—	—	—	—									
12	—	—	—	—	—	—									

VESSEL Alpha Helix			PROJECT & LEG HX200			STATION DESIGNATION MDO 3								
CON SC	CAST #	LATITUDE	LONGITUDE	DATE JD=	(GMD)	TIME	DRY BULB	WET BULB	WIND DIRN. TYPE	BOTTO H	STA. NAME/ID			
DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	(°C)	(mb)	(deg)	(m/s)			
49	35	12	33	16	13	37	21	19	10.0	80	14			
CTD			TIMES			JD/TIME			DATA LOCATION			REMARKS		
TYPE & SN			911+			DATA ON			Tape/Diskette ID			File Name/Header		
PRESS SN	#50405													
TEMP SN	#1390													
COND SN	#1072													
TEMP SN				<input type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input type="checkbox"/> CHAM	<input type="checkbox"/> TRANSMISSOMETER							
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES						SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY									
1	65.9													
2	50.4													
3	41.4													
4	30.9													
5	16.8													
6	10.6													
7														
8														
9														
10														
11														
12														

NO WORK

VESSEL Alpha Helix 097			PROJECT & LEG HX200			STATION DESIGNATION S160		
CON SC CAST #	LATITUDE		LONGITUDE		DATE JD=			
	DEG	MIN	DEG	MIN	DAY MO YR	DRY BULB	WET BULB	REDSOURCE
69 75 50.5	14	23	123	56	SEP 97	13.55	13.55	TYPE
						(°C)	(°C)	WEATHER
						(mb)	(deg)	CLOUD (amt)
								DIRN.
								D.
								M DEPT
								H
								STA. NAME/ID
CTD	TIMES		JD/TIME		DATA LOCATION			REMARKS
TYPE & SN	911+	DATA ON		Tape/Diskette ID			File Name/Header	
PRESS SN	#50405	START DOWN						
TEMP SN	#1390	AT DEPTH						
COND SN	#1072	AT SURFACE		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHAM	<input checked="" type="checkbox"/> TRANSMISSOMETER	
TEMP SN								MAX. DEPTH = 39 m
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER
	-	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SALINITY	Sal. Nuts. OTHER
10	38.5							1420009401
11	30.0							
12	16.8							
1	11.0							
2	1.8							
6								
7								
8								
9								
10								
11								
12								

10 11 12

1

2

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION															
CON SC CAST #	Latitude	Longitude	Date JD=	TIME			DRY BULB	WET BULB	FRESSURE	VISIBILITY	SEA STATE	WIND D SP	BOTTO	WEATHER	STA NAME/ID				
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(mb)	(deg)	(m/s)	M DEPT	H						
78 53 10	30 N	16 40 47.4	13 20 09	SEP 97	20	18	9.1	18		18	*	53	5029	1					
CTD	TIMES		JD/TIME		DATA LOCATION			REMARKS											
TYPE & SN	911+	DATA ON		Tape/Diskette ID		File Name/Header													
PRESS SN	#50405	START DOWN																	
TEMP SN	#1390	AT DEPTH																	
COND SN	#1072	AT SURFACE																	
TEMP SN		PAR		FLUOR		CHAM		TRANSMISOMETER											
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES												SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER		
		PRESSURE	PR1. TEMP,	SEC. TEMP		SALINITY		SALINITY		SAL.		NUTS.	OTHER						
1	51.1																		
2	40.4																		
3	29.9																		
4	10.8																		
5	1.9																		
6																			
7																			
8																			
9																			
10																			
11																			
12																			

31 56 2

Appears to have sucked a John cone onto one of
probes on upcast

VESSEL Alpha Helix			PROJECT & LEG HX200			STATION DESIGNATION								
CON SC CAST #	LATITUDE		LONGITUDE		DATE	JD=	TIME	DRY BULB	WET BULB	RESURGE	WIND DIRN	BOTTO M DEPT H	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	(°C)	(mb)	(deg)	(m/s)	TYPE CLD DIRN D.	
35°55'1.2"	N	12°31'6"	167°09'6"	S	09	SEP	97	21	26	9.1	18	29611	21695.325	
CTD	TIMES		JD/TIME		DATA LOCATION			REMARKS						
TYPE & SN	911+	DATA ON	PRESS SN	#50405	Tape/Diskette ID	File Name/Header								
PRESS SN	#50405	START DOWN	TEMP SN	#1390										
TEMP SN	#1072	AT DEPTH	COND SN	#1072	AT SURFACE									
TEMP SN		PAR			ELUOR		ChlAM	TRANSMISSOMETER						
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER						
	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SALINITY	SALINITY	Sci.	Nuts.	OTHER				
1	60.6				H40009901									
2	57.4													
3	50.4													
4	32.2													
5	20.4													
6	10.4													
7	2.4													
8														
9														
10														
11														
12														

fall first Goo removed from pump on C1 - H 50 ft

After Cast

VESSEL Alpha Helix 100			PROJECT & LEG HX200			STATION DESIGNATION 33506							
CON SC CAST #	LATITUDE		LONGITUDE		DATE	JD=	TIME	DRY BULB	WET BULB	FREQUENCY	SEA STATE	BOTTOM M DEPT H	STA. NAME/ID
	DEG	MIN	DEG,	MIN	DAY	MO	HR	MIN	(°C)	(mbq)	VISIBILITY	TYPE DIRN. D.	
105 51 51 N	64 11	.68 W	10 51 51 N	64 11	08	SEP 97	22	18	12	17	18	18	WIN D SP (mbq)
CTD	TIMES			JD/TIME			DATA LOCATION			REMARKS			
TYPE & SN	911+			DATA ON			Tape/Diskette ID	File Name/Header					
PRESS SN	#50405			START DOWN									
TEMP SN	#1390			AT DEPTH									
COND SN	#1072			AT SURFACE									
TEMP SN				<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHAM	<input checked="" type="checkbox"/> TRANSMISSOMETER						
POS	TRIP DEPTH			CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER			
				PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY				Sal.	Nuts.	OTHER
1	70.1												
2	61.5												
3	51.0												
4	41.3												
5	30.9												
6	20.4												
7	2.4												
8													
9													
10													
11													
12													

, 06 Difference Between C1 & C2
 may be due to Cleaning C1 -+ direct of jelly fish goo

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION <i>SBE 29</i>	
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN (°C)	WET BULB DIRN. DIRN. VISIBILITY (mb)
101 53' 20.05 N	156° 53' 07 S	101 53' 20.05 N	156° 53' 07 S	07 SEP 97 23 24	13 (deg) * (m/s) *
CTD	TIMES	JD/TIME	DATA LOCATION	REMARKS	
TYPE & SN	911+	DATA ON	Tape/Diskette ID	File Name/Header	
PRESS SN	#50405	START DOWN			
TEMP SN	#1390	AT DEPTH			
COND SN	#1072	AT SURFACE			
TEMP SN		<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input checked="" type="checkbox"/> CHAM <input checked="" type="checkbox"/> TRANSMISSOMETER			
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY
1	93.5				
2	49.8				
3	46.8				
4	56.4				
5	49.6				
6	40.0				
7	30.8				
8	20.5				
9	11.1				
10	1.7				
11					
12					

12 345 678 9 10 11 12

C1 - C2 - It appears to be normal now

VESSEL Alpha Helix 102			PROJECT & LEG HX200			STATION DESIGNATION		
CON SC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB	WET BULB
	DEG	MIN	DEG	MIN	DAY	MO	HR	MIN
16 25'	49.95	N	16 19'	56.3	10	SEP	20	45
CTD	TIMES		JD/TIME		DATA LOCATION			REMARKS
TYPE & SN	911+	DATA ON			Tape/Diskette ID	File Name/Header		
PRESS SN	#50405	START DOWN						
TEMP SN	#1390	AT DEPTH						
COND SN	#1072	AT SURFACE						
TEMP SN		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR		<input checked="" type="checkbox"/> CHAM	<input checked="" type="checkbox"/> TRANSMISSOMETER		
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES						SAMPLE BOTTLE DATA
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY		SAMPLE BOTTLE NUMBER	
1	98							
2	89.5							
3	81.4							
4	70.0							
5	60.4							
6	51.8							
7	41.5							
8	30.4							
9	20.3							
10	10.0							
11	1.2							
12								

10 11 12 13 14 15 16 17 18

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION <i>SBC 12</i>	
CON SC	CAST #	LATITUDE	LONGITUDE	DATE	JD=
DEG	MIN	DEG	MIN	DAY	MO YR
10 35 53	5.51 N	141 54 57 W	1 SEP 97	0219	. 2081
CTD		TIME		DATA LOCATION	
TYPE & SN	911+	DATA ON	JD/TIME	Tape/Diskette ID	File Name/Header
PRESS SN	#50405	START DOWN			
TEMP SN	#1390	AT DEPTH			
COND SN	#1072	AT SURFACE			
TEMP SN		<input checked="" type="checkbox"/> PAR <input type="checkbox"/> FLUOR <input type="checkbox"/> CHAM <input type="checkbox"/> TRANSMISSOMETER			
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA	
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY
1	90.7				10301
2	80.6				
3	70.7				
4	60.5				
5	50.1				
6	40.4				
7	30.4				
8	20.6				
9	9.5				
10	1.4				
11					
12					
REMARKS <i>backgreen</i>					
MAX. DEPTH = 92 m					

Salinity near bottom may be variable for good calib

VESSEL Alpha Helix 105		PROJECT & LEG HX200		TIME GMD		WET BULB (°C)		WET BULB (mb)		VISIBILITY (deg)		WIND D SP (m/s)		BOTTO M DEPT H (m)		STA. NAME/ID			
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD=	DAY	MO	YR	HR	MIN	TYPE	CLOD (amt)	WEATHER	DIRN.	D.	DIRN.	D.	STA. NAME/ID			
105552.7	78 N	16 40 9.4	CW/	SEP	97	03	22	.08	*	15	WIN	WIND	DIRN.	DIRN.	D.				
CTD	TIMES	JD/TIME	DATA LOCATION						REMARKS										
TYPE & SN	911+	DATA ON	Tape/Diskette ID						File Name/Header										
PRESS SN	#50405	START DOWN																	
TEMP SN	#1390	AT DEPTH																	
COND SN	#1072	AT SURFACE																	
TEMP SN		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHLAM	<input checked="" type="checkbox"/> TRANSMISSOMETER														
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES												SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER		
		PRESSURE	PR. TEMP.	SEC. TEMP.	SALINITY	SALINITY			SALINITY			SAL.			NUTS.	OTHER			
1	93.2																/0501		
2	81.0																		
3	70.5																		
4	59.1																		
5	50.2																		
6	39.1																		
7	29.5																		
8	20																		
9	8.6																		
10	1.9																	1050	
11																			
12																			

REVIS. WATER

11 bottles tripped - one not recorded - assumed surface trip

MAX. DEPTH = 93 m while retrieving.

VESSEL Alpha Helix 106			PROJECT & LEG HX200			STATION DESIGNATION SBC 09							
CON SC CAST #	LATITUDE		LONGITUDE		DATE JD=								
	DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	WET BULB TEMPERATURE	DRY BULB TEMPERATURE	WIND DIRN. D.		
125°55'53" S	14°07'34"	N	14°07'34"	W	10	SEP	9	22	22	22	15		
CTD			TIME			JD/TIME			DATA LOCATION			REMARKS	
TYPE & SN	911+	DATA ON				Tape/Diskette ID							
PRESS SN	#50405	START DOWN											
TEMP SN	#1390	AT DEPTH											
COND SN	#1072	AT SURFACE	<input checked="" type="checkbox"/>	PAR	<input checked="" type="checkbox"/>	FLUOR	<input checked="" type="checkbox"/>	CHAM	<input checked="" type="checkbox"/>	TRANSMISOMETER			
TEMP SN													
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES									SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	OTHER	
1	91.4				32.753								
2	40.7												
3	20.3												
4	2.5												
5													
6													
7													
8													
9													
10													
11													
12													

anchored a jelly on upcast @ 15 m

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION <i>SBC 07</i>	
CON SC CAST #	LATITUDE <i>MBK 55°20.25'</i>	LONGITUDE <i>140°25'N</i>	DATE JD=	TIME (GMD)	WET BULB RESCURE
DEG MIN	DEG MIN	DAY MO	HR MIN	°C	mb
16 54 0	14 03 42	W SEP 9	54 2	9.4	213
55 25	03 42	0 0	0	7.9	300
				6	06
					2
					855
					07
CTD	TIMES	JD/TIME	DATA LOCATION		REMARKS
TYPE & SN	911+	DATA ON	Tape/Diskette ID	File Name/Header	<i>Dark very clear</i>
PRESS SN	#550405	START DOWN			
TEMP SN	#1390	AT DEPTH			
COND SN	#1072	AT SURFACE			
TEMP SN		X PAR	FLUOR	ChlAM	TRANSMISSOMETER
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA
	PRESSURE	PRI. TEMP.	SEC. TEMP	SAINITY	SAMPLE BOTTLE NUMBER
1	78.9				Sal. Nutr. OTHER
2	40.6				10801
3	34.8				
4	25.5				
5	20.1				
6	3.1				
7	1				
8					
9					
10					
11					
12					

*Strong fl peak 20-25 m
Thermocline from 15-60 m*

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION <u>SBC 06</u>	
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMD)	WET BULB TEMPERATURE
DEG MIN	DEG MIN	DAY	MO	HR MIN	(°C)
10 45' 31"	7.9 9	N 16 40' 1.4	W 1 0 3	SEP 97 01 10	1.4
CTD	TIMES	JD/TIME	DATA LOCATION	REMARKS	
TYPE & SN	911+	DATA ON _____	Tape/Diskette ID	File Name/Header	
PRESS SN	#50405	START DOWN _____			
TEMP SN	#1390	AT DEPTH _____			
COND SN	#1072	AT SURFACE	<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input checked="" type="checkbox"/> CHLAM <input checked="" type="checkbox"/> TRANSMISSOMETER		
TEMP SN					
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY
1	70.6				Sal. Nuts. OTHER
2	66.6				1090
3	49.1				
4	40.0				
5	30.7				
6	20.1				
7	10.5				
8	5.8				
9					
10					
11					
12					

VESSEL Alpha Helix \ \ O		PROJECT & LEG HX200				STATION DESIGNATION SB C 05			
CON SC CAST #	Latitude DEG MIN SEC	Longitude DEG MIN SEC	DATE JD = DAY MO YR	TIME (GMD) HR MIN (°C)	DRY BULB (mb)	WET BULB (mb)	PRESSURE SEA STATE VISIBILITY	BOTTOM DEPTH H (m)	STA. NAME/ID
110551	51550	1636142	W1 CSE P 97	0452	9.4	23	1/	18406	
CTD	TYPE & SN FRESS SN TEMP SN COND SN TEMP SN	TIMES DATA ON START DOWN AT DEPTH AT SURFACE PAR FLUOR	JD/TIME Tape/Diskette ID File Name/Header	DATA LOCATION	REMARKS				
	911+ #50405 #1390 #1072 #1072								
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER					
1	548	PRESURE PRI. TEMP.	SEC. TEMP	SALINITY					
2	304								
3	Surf								
4									
5									
6									
7									
8									
9									
10									
11									
12									

VESSEL		PROJECT & LEG										STATION DESIGNATION		
Alpha Helix		HX200										SBC 04		
CON SC CAST #	LATITUDE	LONGITUDE		DATE		TIME		DRY	WET	BOTTO M DEPT H		STA. NAME/ID		
DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	BULB	BULB	DIRN.	(m)			
11	55'	131	55'	1	63	73	30	SE	P9	07	14	28	56	04
CTD	TYPE & SN	911+	DATA ON		JD/TIME		Tape/Diskette ID		REMARKS					
PRESS SN	#50405	START DOWN												
TEMP SN	#1390	AT DEPTH												
COND SN	#1072	AT SURFACE												
TEMP SN		<input checked="" type="checkbox"/> PAR		<input checked="" type="checkbox"/> FLUOR		<input checked="" type="checkbox"/> CHIAM		<input checked="" type="checkbox"/> TRANSMISOMETER						
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA		
	PRESSURE	PRI. TEMP.		SEC. TEMP		SALINITY		SAMPLE BOTTLE NUMBER						
1	49.1							Sci. Nuts. Other						
2	40.5							11/01						
3	30.8													
4	20.8													
5	11.1													
6	Small													
7	1													
8														
9														
10														
11														
12														

VESSEL Alpha Helix		PROJECT & LEG HX200				STATION DESIGNATION SBCO 3						
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN		DATE JD = DAY MO YR		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	WIND DIRN. (deg)	WIND DIRN. (deg)	BOTTO M DEPT (m)	STA. NAME/ID
112	10.49	16353.3		6W10SEP97		1753	8.7	2.5*	270	05*	44.5	SBCO 3
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS				
TYPE & SN		911+		DATA ON _____		Tape/Diskette ID _____		File Name/Header _____				
PRESS SN	#50405			START DOWN _____								
TEMP SN	#1390			AT DEPTH _____								
COND SN	#1072			AT SURFACE		<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input type="checkbox"/> CHIAM <input type="checkbox"/> TRANSMISSOMETER						
TEMP SN												
TRIP DEPTH		CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER		
POS	PRESSURE	PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		Sal.	Nuts.	
1	40.0									11201	OTHER	
2	30.2											
3	20.7											
4	10.2											
5	15											
6												
7												
8												
9												
10												
11												
12												

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION <u>SBC 2</u>	
CON SC	CAST #	LATITUDE	LONGITUDE	DATE JD=	
		DEG MIN	DEG MIN	DAY MO YR	TIME (GMT)
113	550836	145342	W1 SEP 970827	DRY BULB (°C)	WET BULB (°C)
				HR MIN	HR (m/s)
				(°C)	(mb)
					SEA STATE (deg)
					VISIBILITY (m)
					WIND DIRECTION (D.)
					WIND SPEED (m/s)
					WEATHER
					CLoud
					WIND M DEPT H
					STA. NAME/ID
CTD	TYPE & SN	TIMES	JD/TIME	DATA LOCATION	
	911+	DATA ON		Tape/Diskette ID	File Name/Header
PRESS SN	#50405	START DOWN			
TEMP SN	#1390	AT DEPTH			
COND SN	#1072	AT SURFACE			
TEMP SN		<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input checked="" type="checkbox"/> CHAM <input checked="" type="checkbox"/> TRANSMISOMETER			
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			
	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA
1	29.4				SALINITY
2	20.6				1/301
3	10.2				
4	1.7				
5					
6					
7					
8					
9					
10					
11					
12					
					OTHER

VESSEL Alpha Helix			PROJECT & LEG HX200			STATION DESIGNATION S TRA 00					
CON SC	CAST #	LATITUDE	LONGITUDE	DATE	JD=	TIME	DRY BULB	WET BULB	BOTTOM DEPTH	STA. NAME/ID	
DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	(°C)	(mb)		
11	5	25° 0' 0"	10° 1' 0"	14	SEP 97	09	57	90	26	27007	
											3356460
CTD	TIMES			DATA LOCATION			REMARKS				
TYPE & SN	911+	DATA ON	Tape/Diskette ID			File Name/Header					
PRESS SN	#50405	START DOWN									
TEMP SN	#1390	AT DEPTH									
COND SN	#1072	AT SURFACE									
TEMP SN		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHIAM	<input checked="" type="checkbox"/> TRANSMISOMETER						
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER			
	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY		Sci.	Nuts.	OTHER		
1	29.5										
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

Mo Sact

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION <i>53A01</i>	
CON SC CAST #	Latitude	Longitude	DATE JD=	TIME (GMT)	WET BULB F _{RE} _{SS} _E _{SS} _I _E _R _S _E _A _S _T _A _L _I _T _E _Y
DEG	MIN	DEG	DAY MO	HR MIN	VISIBILITY F _{RE} _{SS} _E _{SS} _I _E _R _S _E _A _S _T _A _L _I _T _E _Y
111.53	108.45'	41 16	163 41 11	02 48	16 8.9
CTD	TIMES	JD/TIME	DATA LOCATION	REMARKS	
TYPE & SN	911+	DATA ON	Tape/Diskette ID	File Name/Header	
PRESS SN	#50405	START DOWN			
TEMP SN	#1390	AT DEPTH			
COND SN	#1072	AT SURFACE			
TEMP SN		<input checked="" type="checkbox"/> PAR <input type="checkbox"/> FLUOR <input type="checkbox"/> CHI AM <input type="checkbox"/> TRANSMISSOMETER			
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA
	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE NUMBER
1	38.2				<i>11601</i>
2	29.1				
3	20.5				
4	10.5				
5	1.9				
6					
7					
8					
9					
10					
11					
12					

VESSEL Alpha Helix		117		PROJECT & LEG HX200		11/71.2		STATION DESIGNATION SBA04									
CON SC CAST #	Latitude	Longitude		DATE JD=		TIME (GMD)	DRY BULB (°C)	WET BULB (°C)	SEASITE VISIBILITY DIRN. DEPT H	WIN D SP TYPE D.	WIND DIRN. DIRN. H	WEATHER CLD TYPE D.	BOTOM DEPTH (m)	STA. NAME/ID			
	Deg Min	Deg	Min	Day	Mo	YR	HR	MIN									
11/1551	55° 51'	57' 6	N	11	16	24	13	W	1 SEP	97	11	30	9.0	.27	2605'	5856A041	
CTD																	
TIME		JD/TIME		DATA LOCATION		REMARKS											
TYPE & SN	911+	DATA ON		Tape/Diskette ID		File Name/Header											
PRESS SN	#50405	START DOWN															
TEMP SN	#1390	AT DEPTH															
COND SN	#1072	AT SURFACE		<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHAM	<input checked="" type="checkbox"/> TRANSMITTER										
TEMP SN																	
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER											
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SALINITY	Sal.	Nuts.	OTHER							
1	53.9																
2	46.0																
3	24.7																
4	19.8																
5	10.3																
6	1.0																
7																	
8																	
9																	
10																	
11																	
12																	

No Salt

VESSEL Alpha Helix			PROJECT & LEG HX200			STATION DESIGNATION S A-O-S				
CON SC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB	WET BULB		
	DEG	MIN	DEG	MIN	DAY MO YR	(°C)	(°C)	RESISTURE		
118551N	51	R20	1634W	35	Sep 11	1200	9.9	1200		
CTD	TIMES		JD/TIME		DATA LOCATION			REMARKS		
					Tape/Diskette ID	File Name/Header				
TYPE & SN	911+		DATA ON							
PRESS SN	#50405		START DOWN							
TEMP SN	#1390		AT DEPTH							
COND SN	#1072		AT SURFACE							
TEMP SN			<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHAM	<input checked="" type="checkbox"/> TRANSMISSOMETER				
POS	TRIP DEPTH		CTD CONVERTED MONITOR VALUES						SAMPLE BOTTLE DATA	
			PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE NUMBER			
1	40.7						Sal.	Nuts.	OTHER	
2	49.6						11801			
3	40.0									
4	30.5									
5	21.5									
6	10.7									
7	1.3									
8										
9										
10										
11										
12										

Hi floor near surf.

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION Σ 8406	
CON SC CAST #	Latitude	Longitude	Date JD=	TIME (GMD)	WET BULB TEMPERATURE
	DEG MIN	DEG MIN	DAY MO	HR MIN	TYPE DIRN. D.
119 53 20.6	N	162 57.1	14W 1C SEP 97	8.5	WIND DIRN. H
CTD	TIMES	JD/TIME	DATA LOCATION	REMARKS	
TYPE & SN	911+	DATA ON	Tape/Diskette ID	File Name/Header	
PRESS SN	#50405	START DOWN			
TEMP SN	#1390	AT DEPTH			
COND SN	#1072	AT SURFACE			
TEMP SN		<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input type="checkbox"/> CHAM <input type="checkbox"/> TRANSMISOMETER			
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY
1	68.7				SAL. NUTS. OTHER
2	48.1				11901
3	49.8				
4	39.5				
5	30.3				
6	21.5				
7	10.0				
8	2.5				
9					
10					
11					
12					

VESSEL Alpha Helix		PROJECT & LEG HX200		STATION DESIGNATION <u>33408</u>																											
CON SC	CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMD)		DRY BULB		WET BULB		PRESSURE		WIND DIRN.		WIND D SP		WIND DIRN. H		WEATHER		BOTOM DEPT		STA. NAME/ID					
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	*	*	(m)	(m/s)	*	*	(m)	(m)	(m)	(m)								
120	55	25.5	7	N	6	35	32	0	W	9	7	1320	9.6	.26	2550	8	6	705	34	08	705	34	08								
CTD		TIMES		JD/TIME		DATA LOCATION												REMARKS													
TYPE & SN		911+		DATA ON		Tape/Diskette ID												File Name/Header													
PRESS SN		#50405		START DOWN																											
TEMP SN		#1390		AT DEPTH																											
COND SN		#1072		AT SURFACE																											
TEMP SN				<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHAM	<input checked="" type="checkbox"/> TRANSMISSELMETER																								
POS		TRIP DEPTH		CTD CONVERTED MONITOR VALUES												SAMPLE BOTTLE DATA															
				PRESSURE		PRI. TEMP.		SEC. TEMP		SALINITY		SALINITY		SAMPLE BOTTLE		SAMPLE BOTTLE NUMBER															
1		83.9																													
2		70.1																													
3		61.1																													
4		57.6																													
5		40.5																													
6		30.5																													
7		21.2																													
8		10.7																													
9		1.1																													
10																															
11																															
12																															

PC 1

VESSEL Alpha Helix			PROJECT & LEG HX200			STATION DESIGNATION 2BA10					
CON SC CAST #	LATITUDE		LONGITUDE		DATE	JD=	TIME	WET BULB PRESSURE	BOTTOM TYPE WEATHER CLLOUD (cm) DIRN. D.	WIND DIRN. H	M DEPT STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	HR MIN	(mb)	(deg)	(m/s)*	*
12	15	30	47	0	N	143	59.3	0	141.6	2.6	10
CTD	TIMES		JD/TIME		DATA LOCATION			REMARKS			
TYPE & SN	911+		DATA ON		Tape/Diskette ID			File Name/Header			
PRESS SN	#50405		START DOWN								
TEMP SN	#1390		AT DEPTH								
COND SN	#1072		AT SURFACE								
TEMP SN			<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> CHAM	<input checked="" type="checkbox"/> TRANSMISSOMETER					
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES						SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL.	Nuts.	OTHER		
1	81.5										
2	70.8										
3	59.9										
4	49.9										
5	40.9										
6	30.6										
7	20.1										
8	10.0										
9	1.7										
10											
11											
12											

Insped Salinity 15-30m

Prod

PG — OF —

VESSEL Alpha Helix			PROJECT & LEG HX200			STATION DESIGNATION SB410													
CON SC CAST #	LATITUDE		LONGITUDE		DATE	JD=			TIME			DRY BULB	WET BULB	REL. PRESSURE	BOTTOM DEPTH	WEATHER	TYPE D.	CLOUD H.	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	*	*	(m)		
13 25 53 6.4	53 6.4	8 N	16 35 9.1	17 W	10 SEP 97	16	04	*	*	9158410		
CTD	TIMES		JD/TIME		DATA LOCATION			REMARKS											
TYPE & SN	911+		DATA ON		Tape/Diskette ID			File Name/Header			Prod H ₂ O								
PRESS SN	#50405		START DOWN								Dark Black - Gray								
TEMP SN	#1390		AT DEPTH																
COND SN	#1072		AT SURFACE		<input checked="" type="checkbox"/> PAR			<input checked="" type="checkbox"/> FLUOR			<input checked="" type="checkbox"/> CHAM			<input checked="" type="checkbox"/> TRANSMISSOMETER			MAX. DEPTH = m		
TEMP SN																			
POS	TRIP DEPTH		CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER										
			PRESSURE	PR. TEMP.	SEC. TEMP.	SALINITY			SALINITY										
1	19.9																		
2	14.9																		
3	10.1																		
4	14.																		
5	1.3																		
6	1.5																		
7	1.2																		
8	1.4																		
9	1.2																		
10	1.5																		
11																			
12																			

24
15

PRO

PG ____ OF ____

VESSEL Alpha Helix			PROJECT & LEG HX200			STATION DESIGNATION SB AID		
CON SC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMD)	DRY BULB	WET BULB
	DEG	MIN	DEG	MIN	DAY MO	HR MIN	DIRN. D.	CLLOUD (gmt)
12 25 53 46 N	16 35 41 W	59.17	18 17	SEP 97	18 17	18 17	+	WEATHER
								SEA STATE
								VISIBILITY
								WIND D SP
								M DEPT
								H
								STA. NAME/ID
								SB AID

CTD TYPE & SN	TIMES		JD/TIME		DATA LOCATION		REMARKS
	DATA ON	DATA ON	JD/TIME	JD/TIME	Tape/Diskette ID	File Name/Header	
PRESS SN #50405	911+	911+	911+	911+	N-15		
TEMP SN #1390	START DOWN	AT DEPTH	AT DEPTH	AT DEPTH			
COND SN #1072	AT SURFACE	PAR	FLUOR	CHLAM			
TEMP SN				TRANSMISSOMETER			

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER		
		PRESSURE	PRI. TEMP.	SEC. TEMP		SALINITY	Sal.	Nuts.
1	30.1							
2	30.2							
3	30.0							
4	29.9							
5	1.1							
6	1.9							
7	1.1							
8	1.8							
9								
10								
11								
12								

POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER		
		PRESSURE	PRI. TEMP.	SEC. TEMP		SALINITY	Sal.	Nuts.
1	30.1							
2	30.2							
3	30.0							
4	29.9							
5	1.1							
6	1.9							
7	1.1							
8	1.8							
9								
10								
11								
12								

30
Surf

VESSEL Alpha Helix 125			PROJECT & LEG HX200			STATION DESIGNATION SB405					
CON SC CAST #	LATITUDE		LONGITUDE		DATE	JD=	TIME	DRY	WET	SEAS STATE	BOTTO
	DEG	MIN	DEG	MIN	DAY	MO	HR	BULB	BULB	VISIBILITY	M DEPT
12 55	81	8.2	63	49.2	7	W	1	SEP	97	1752	DIRN.
											D.
											CLLOUD (gmt)
											WIN (m/s)
											SPD (m/s)
											WEATHER
											H
											STA. NAME/ID
CTD	TIMES		JD/TIME		DATA LOCATION			REMARKS			
					Tape/Diskette ID	File Name/Header		D00405			
TYPE & SN	911+		DATA ON								
PRESS SN	#50405		START DOWN								
TEMP SN	#1390		AT DEPTH								
COND SN	#1072		AT SURFACE		<input type="checkbox"/> PAR	<input type="checkbox"/> FLUOR	<input type="checkbox"/> CHLAM	<input type="checkbox"/> TRANSMISOMETER			
TEMP SN											
POS	TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER			
			PRESSURE	PR1. TEMP.	SEC. TEMP	SALINITY		Scd.	Nuts.	OTHER	
15	1 15.9										
10	2 10.2										
	3 1.1										
	4 1.5										
	5 1.6										
	6 1.4										
	7 1.2										
	8 1.5										
	9 1.5										
	10 1.5										
	11										
	12										

15 10 0

VESSEL Alpha Helix / 26			PROJECT & LEG HX200				STATION DESIGNATION S3A05					
CON SC CAST #	LATITUDE		LONGITUDE		DATE		JD=	(GMT)	DRY BULB	WET BULB	PRESSURE	
	DEG	MIN	DEG	MIN	DAY	MO						HR
125518.20	N	16349.11	W	1	SEP	9	7	
CTD	TIMES		JD/TIME		DATA LOCATION		REMARKS					
TYPE & SN	911+	DATA ON			Tape/Diskette ID	File Name/Header	N-15					
PRESS SN	#50405	START DOWN										
TEMP SN	#1390	AT DEPTH										
COND SN	#1072	AT SURFACE										
TEMP SN		<input type="checkbox"/> PAR	<input type="checkbox"/> FLUOR		<input type="checkbox"/> CHIAM	<input type="checkbox"/> TRANSMISOMETER						
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER		
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY			Sal.	Nuts.	OTHER	
1	25.5											
2	25.7											
3	25.4											
4	25.4											
5	18.4											
6	1.3											
7	1.5											
8	1.3											
9	1.4											
10												
11												
12												

25 15 Surf