



VESSEL		PROJECT & LEG						STATION DESIGNATION												
Alpha Helix		HXX-20 HX122						300°0.5' S 82°05'												
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID			
	DEG MIN	DEG MIN	DAY MO YR	HR MIN																
052551	529 N	16807.57 W	28 AUG 98	0012	8.2				1626	090	06	782				635	8E05			
CTD		TIMES		JD/TIME		REMARKS														
TYPE & SN		DATA ON				Tape/Diskette ID File Name/Header														
PRESS SN		START DOWN																		
TEMP SN		AT DEPTH																		
COND SN		AT SURFACE				MAX. DEPTH = m														
TEMP SN						Cleaned air bleed valve														
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																		
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA											SAMPLE BOTTLE NUMBER			
1	62																SAL.	NUTR.	CHL.	WHIT'S NUTR.
2	40																			
3	30																			
4	20																			
5	15																			
6	10																			
7	0																			
8																				
9																				
10																				
11																				
12																				







[illegible]



VESSEL						PROJECT & LEG								STATION DESIGNATION															
Alpha Helix						HXX213 HX222								SBC02															
CONSC CAST #	LATITUDE			LONGITUDE			DATE JD=			TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID						
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN																		
058	50	8	23	N	16	35	3	42	W	28	AUG	98	03	05	9.7	14	15	0	02	7	8	4	3	35	B	C	02		
CTD										DATA LOCATION										REMARKS									
TYPE & SN										Tape/Diskette ID										File Name/Header									
PRESS SN																													
TEMP SN																													
COND SN																				MAX. DEPTH = m									
TEMP SN																				Cleaned air bleed valve									
POS.										CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA									
TRIP DEPTH																				SAMPLE BOTTLE NUMBER									
1										30										SALINITY									
2										20										SALINITY									
3										10										SALINITY									
4										0										SALINITY									
5																				SALINITY									
6																				SALINITY									
7																				SALINITY									
8																				SALINITY									
9																				SALINITY									
10																				SALINITY									
11																				SALINITY									
12																				SALINITY									



VESSEL		PROJECT & LEG		STATION DESIGNATION																		
Alpha Helix		H213 HX122		SBC03																		
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID					
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR										MIN				
05955	10	67	N	16	35	51	43	W	28	4	99	0334	10.2	1	52	6	140	04	782	42	SBC	03
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS														
TYPE & SN		DATA ON		Tape/Diskette ID		File Name/Header																
PRESS SN		START DOWN																				
TEMP SN		AT DEPTH																				
COND SN		AT SURFACE																				
TEMP SN								MAX. DEPTH = m														
TRIP DEPTH		40		30		20		10														
1																						
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						







VESSEL Alpha Helix		PROJECT & LEG HX213 HX222		STATION DESIGNATION 58004								
CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	WET BULB (°C)	SEA STATE	WIND DIRN (deg)	WIND SPD (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
635520.50	N 168 03.55	W 78 05 39	05 39	10.2	142.6	2009	782	58004				
CTD		JD/TIME JUL 99		DATA LOCATION		REMARKS						
TYPE & SN		DATA ON		Tape/Diskette ID		File Name/Header						
PRESS SN		START DOWN										
TEMP SN		AT DEPTH										
COND SN		AT SURFACE										
TEMP SN								MAX. DEPTH = m				
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		WHIT'S NUTR.
1	81.2	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY			SALINITY		SAL.	NUTR.	CHL
2	50.1											
3	41.0											
4	31.1											
5	19.4											
6	11.1											
7	1.8											
8												
9												
10												
11												
12												

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION															
Alpha Helix		Hx213 Hx222		58C09															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
	DEG	MIN	DEG	MIN														DAY	MO
65	55	25.36	N	164	04.32	W	28	AUG	1999	06	56	10.7	1326	12	00	47	82	97	58C09
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS											
TYPE & SN		DATA ON		Tape/Diskette ID		File Name/Header													
PRESS SN		START DOWN																	
TEMP SN		AT DEPTH																	
COND SN		AT SURFACE						MAX. DEPTH = m											
TEMP SN		PAR		FLUOR		CHAM		TRANSMISSOMETER		Cleaned air bleed valve									
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER					
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY						SAL.	NUTR.	CHL.	WHIT'S NUTR.				
1	91.2																		
2	41.4																		
3	40.9																		
4	31.2																		
5	20.1																		
6	10.0																		
7	2.5																		
8																			
9																			
10																			
11																			
12																			





VESSEL		PROJECT & LEG		STATION DESIGNATION									
Alpha Helix		HX213 HX222		58C11									
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	WET BULB (°C)	DRY BULB (°C)	SEA STATE	WIND DRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
0675530.11 N	16411.87 W	16411.87 W	28 AUG 99	0755	10.3	10.3	1326	1200	782	782	9958C11		
CTD		JD/TIME		DATA LOCATION		REMARKS							
TYPE & SN		DATA ON		Tape/Diskette ID		File Name/Header							
PRESS SN		START DOWN											
TEMP SN		AT DEPTH											
COND SN		AT SURFACE											
TEMP SN								MAX. DEPTH = m					
TRIP DEPTH		CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		Cleared air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		WHIT'S NUTR.	
1	98.8	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY			SALINITY		SAL.		NUTR. CHL.	
2	60.6												
3	33.1												
4	20.2												
5	10.7												
6	2.8												
7													
8													
9													
10													
11													
12													

VESSEL						PROJECT & LEG							STATION DESIGNATION																		
Alpha Helix						HX213 HX222							290°0.5' 58A10																		
CONSC CAST #	LATITUDE			LONGITUDE			DATE JD=			TIME (GMT)		DRY BULB (°C)		WET BULB (°C)		PRESSURE (mb)		SEA STATE		WIND DIRN. (deg)		WIND SPD. (m/s)		CLOUD (amt)		WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID	
	DEG	MIN	N	DEG	MIN	E	DAY	MO	YR	HR	MIN	°C	°C	(°C)	(mb)	.	.	.	.	.	.	(deg)	(m/s)	.	.	.	(m)				
685530.56	16	35	9	1	4	28	AUG	1998	08	54	11.3			1.32	V	4	0	0	0	0	0	0	0	0	0	0	93	58A10			
CTD	TIMES			JD/TIME			JUL 99																								
TYPE & SN	DATA ON						Tape/Diskette ID File Name/Header																								
PRESS SN	START DOWN																														
TEMP SN	AT DEPTH																														
COND SN	AT SURFACE																														
TEMP SN							<input checked="" type="checkbox"/> PAR			<input type="checkbox"/> FLUOR			<input type="checkbox"/> CHLOR			<input type="checkbox"/> TRANSMISSOMETER			<input type="checkbox"/> Cleaned air bleed valve												
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																			SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER									
1	91.4	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY																				SALINITY	Hx222 06801					
2	90.4																														
3	80.6																														
4	21.0																														
5	2.6																														
6																															
7																															
8																															
9																															
10																															
11																															
12																															

[illegible]







VESSEL Alpha Helix		PROJECT & LEG HX213 HX222		STATION DESIGNATION SB102																		
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID					
	DEG	MIN	DEG	MIN																		
435510	55	N	163	48	03	1206	10.8		130			140	08		1	15584022						
CTD		TIMES		JD/TIME		DATA LOCATION 140																
TYPE & SN		DATA ON		Tape/Diskette ID		File Name/Header																
PRESS SN		START DOWN																				
TEMP SN		AT DEPTH																				
COND SN		AT SURFACE				MAX. DEPTH = m																
TEMP SN						Cleaned air bleed valve																
POS.	TRIP DEPTH	C/D CONVERTED MONITOR VALUES		FLUOR		CHLOR		TRANSMISSOMETER		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL		WHIT'S NUTR.		
1	42.9	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY																	
2	21.1																					
3	3.0																					
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

VESSEL		PROJECT & LEG		STATION DESIGNATION												
Alpha Helix		H213 HX222		2000 1.52 SBA01												
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB (°C)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR								
07455	08.55	N	16341	29W	28	AUG	99	22	49	10.8	106720	0257	87	4/58A01		
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS								
TYPE & SN		DATA ON		Tape/Diskette ID		File Name/Header										
PRESS SN		START DOWN														
TEMP SN		AT DEPTH														
COND SN		AT SURFACE						MAX. DEPTH = m								
TEMP SN																
TRIP DEPTH								Cleaned air bleed valve								
POS.				CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER								
1		30														
2		25														
3		25														
4		25														
5		25														
6		20														
7		10														
8		0														
9		0														
10		0														
11		0														
12		0														



[illegible]



VESSEL		PROJECT & LEG		STATION DESIGNATION											
Alpha Helix		HX213 HX222		SBC05											
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
077551	51 N	16359.52 W	29 AUG 99	1113	7.6		1.5	582	40	08	782			58	SBC05
CTD		TIMES		JD/TIME		DATA LOCATION									
TYPE & SN		DATA ON		Tape/Diskette ID		File Name/Header									
PRESS SN		START DOWN													
TEMP SN		AT DEPTH													
COND SN		AT SURFACE													
TEMP SN						MAX. DEPTH = m									
REMARKS		RH0's Prod													
<div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> PAR  <input checked="" type="checkbox"/> FLUOR  <input checked="" type="checkbox"/> CHAM  <input type="checkbox"/> TRANSMISSOMETER         </div> <div> <input type="checkbox"/> Cleaned air bleed valve         </div> </div>															
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER									
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAL. NUTR. CHL. WHIT's NUTR.									
1	30														
2	30														
3	30														
4	2120														
5	14														
6	14														
7	8														
8	8														
9	5														
10	5														
11	0														
12	0														



VESSEL		PROJECT & LEG		STATION DESIGNATION															
Alpha Helix		HX213 HX222		503E04															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
	DEG	MIN	DEG	MIN														DAY	MO
0795510.33N	16407.47W	29	AUG	99	23	42	8.0		152	72	40	0	4	82		53	58E04		
CTD		TIMES		JD/TIME		DATA LOCATION													
TYPE & SN		DATA ON				Tape/Diskette ID File Name/Header													
PRESS SN		START DOWN																	
TEMP SN		AT DEPTH																	
COND SN		AT SURFACE																	
TEMP SN																			
TRIP DEPTH		PAR		FLUOR		CHLOR		TRANSMISSOMETER		Cleaned air bleed valve		MAX. DEPTH = m							
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																	
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA											SAMPLE BOTTLE NUMBER		WHIT'S NUTR.
1	5.5-60																		
2	1																		
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12	✓																		

VESSEL		PROJECT & LEG		STATION DESIGNATION															
Alpha Helix		HX219 HX222		240° 1.2m 58204															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
	DEG	MIN	DEG	MIN														DAY	MO
080	55	10.39	N	164	07.50	W	8	0	1	52	7	2	40	0	7	8	2	5358204	
CTD		TIMES		JD/TIME		DATA LOCATION													
TYPE & SN		DATA ON		Tape/Diskette ID		File Name/Header													
PRESS SN		START DOWN																	
TEMP SN		AT DEPTH																	
COND SN		AT SURFACE																	
TEMP SN						MAX. DEPTH = m													
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES		PAR		FLUOR		CHLOR		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
1	30	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY														
2	20																		
3	20																		
4	20																		
5	20																		
6	20																		
7	10																		
8	0																		
9																			
10																			
11																			
12																			

VESSEL		PROJECT & LEG		STATION DESIGNATION																		
Alpha Helix		HX213 HX222		290° 1.0m 5BE02																		
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID					
	DEG	MIN	DEG	MIN														DAY	MO	YR	HR	MIN
081	55	05	55	N	16	03	45	W	30	AUG	99	07	37	8.0	1.50	7	0	07	82	425	B	E02
CTD		TIMES		JD/TIME		DATA LOCATION													REMARKS			
TYPE & SN		DATA ON				Tape/Diskette ID		File Name/Header														
PRESS SN		START DOWN																				
TEMP SN		AT DEPTH																				
COND SN		AT SURFACE																		MAX. DEPTH = m		
TEMP SN		<input checked="" type="checkbox"/> PAR		<input checked="" type="checkbox"/> FLUOR		<input checked="" type="checkbox"/> CHLOR		<input checked="" type="checkbox"/> TRANSMISSOMETER		<input type="checkbox"/>		Cleaned air bleed valve										
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																				
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER											WHIT'S NUTR.			
1																						
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

VESSEL		PROJECT & LEG		STATION DESIGNATION													
Alpha Helix		HX213 HX222		58E03													
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO											
08255	07.28	N	164.05	54	W	30	03	03	8.0		1507		0	0	782	4450	E03
CTD		TIMES		JD/TIME		REMARKS											
TYPE & SN		DATA ON				Tape/Diskette ID File Name/Header											
PRESS SN		START DOWN															
TEMP SN		AT DEPTH															
COND SN		AT SURFACE				MAX. DEPTH = m											
TEMP SN																	
TRIP DEPTH																	
POS.																	
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	



[illegible]



VESSEL		PROJECT & LEG		STATION DESIGNATION																										
Alpha Helix		Hx213 HX222		50E06																										
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID													
	DEG	MIN	DEG	MIN														DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	•	•	•	(m)	
08555	15	34	N	164	11	71	W	30	AUG	99	04	29	58.0	1	507	0	27	82	79	50E06										
CTD		TIMES		JD/TIME		DATA LOCATION																								
TYPE & SN		DATA ON		Tape/Diskette ID		File Name/Header																								
PRESS SN		START DOWN																												
TEMP SN		AT DEPTH																												
COND SN		AT SURFACE																												
TEMP SN						MAX. DEPTH = m																								
TRIP DEPTH						PAR		FLUOR		CHAM		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER											
POS.																SALINITY			SAL.			NUTR.			CHL.			WHIT'S NUTR.		
1		72																												
2		50																												
3		40																												
4		30																												
5		18																												
6		10																												
7		0																												
8																														
9																														
10																														
11																														
12																														



VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX213 HX222		NLB01	
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=
	DEG	MIN	DEG	MIN	DAY MO YR
0875604.68 N	16100.87 W	30	08	20	05
CTD		JD/TIME		JUL 99	
TYPE & SN	DATA ON		Tape/Diskette ID		File Name/Header
PRESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				
TEMP SN					
MAX. DEPTH =		m			
REMARKS					
DATA LOCATION					
CLEANED AIR BLEED VALVE					
SAMPLE BOTTLE DATA					
SAMPLE BOTTLE NUMBER					
SALINITY					
SAL.					
NUTR.					
CHL.					
WHIT'S NUTR.					
CTD CONVERTED MONITOR VALUES					
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

[illegible]



VESSEL Alpha Helix		PROJECT & LEG HX213 HX222		STATION DESIGNATION NLB04																											
OONSC CAST #		LATITUDE 56°16.11		LONGITUDE 161°16.36		DATE JD= 10 AUG 2000		TIME (GMT)		WET BULB		WIND DIRN.		WIND SPD.		SEA STATE		PRESSURE		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
09051600.00 N		16200.00 W		16200.00 W		30 AUG 2000		20 35		13.3		126		16		025		0		0		0		0		0		0		0	
CTD		TIMES		JD/TIME		JUL 99		DATA ON		Tape/Diskette ID		File Name/Header		DATA LOCATION		REMARKS		MAX. DEPTH =		m		m		m		m		m			
TYPE & SN		DATA ON		START DOWN		AT DEPTH		AT SURFACE		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.							
PRESS SN		DATA ON		START DOWN		AT DEPTH		AT SURFACE		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.							
TEMP SN		DATA ON		START DOWN		AT DEPTH		AT SURFACE		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.							
COND SN		DATA ON		START DOWN		AT DEPTH		AT SURFACE		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.							
TRIP DEPTH		DATA ON		START DOWN		AT DEPTH		AT SURFACE		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.							
1		DATA ON		START DOWN		AT DEPTH		AT SURFACE		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.							
2		DATA ON		START DOWN		AT DEPTH		AT SURFACE		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.							
3		DATA ON		START DOWN		AT DEPTH		AT SURFACE		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.							
4		DATA ON		START DOWN		AT DEPTH		AT SURFACE		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.							
5		DATA ON		START DOWN		AT DEPTH		AT SURFACE		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.							
6		DATA ON		START DOWN		AT DEPTH		AT SURFACE		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.							
7		DATA ON		START DOWN		AT DEPTH		AT SURFACE		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.							
8		DATA ON		START DOWN		AT DEPTH		AT SURFACE		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.							
9		DATA ON		START DOWN		AT DEPTH		AT SURFACE		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.							
10		DATA ON		START DOWN		AT DEPTH		AT SURFACE		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.							
11		DATA ON		START DOWN		AT DEPTH		AT SURFACE		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.							
12		DATA ON		START DOWN		AT DEPTH		AT SURFACE		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.							



[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION													
Alpha Helix		HX213 HX222		NLB05													
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
0925620	02N	1612	11.66	W30	2318	13.3			1.25	1602						63	NLB05
CTD		TIMES		JD/TIME		DATA LOCATION											
TYPE & SN		DATA ON		Tape/Diskette ID		File Name/Header											
PRESS SN		START DOWN															
TEMP SN		AT DEPTH															
COND SN		AT SURFACE															
TEMP SN																	
POS		TRIP DEPTH		CTD CONVERTED MONITOR VALUES		PAR		PDR		CHAM		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE NUMBER	
1				PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		CHL	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

MAX. DEPTH = 1 m

[illegible]

VESSEL Alpha Helix		PROJECT & LEG HX213 HX222				STATION DESIGNATION PMCL1																	
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	WIND DIRN. (deg)	WIND SPD. (m/s)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID					
	DEG	MIN	DEG	MIN	DAY	MO													YR				
0945	15	N	160	31	07	W	21	00	28.3		2.2	37	27	00	4	28	2	69	PMCL1				
CTD		JD/TIME		JUL 99		REMARKS																	
TYPE & SN		DATA ON				Tape/Diskette ID File Name/Header																	
PRESS SN		START DOWN																					
TEMP SN		AT DEPTH																					
COND SN		AT SURFACE				MAX. DEPTH = m																	
TEMP SN		PAR		FLOOR		CHAM		TRANSMISSOMETER		Cleaned air bleed valve													
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																					
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA														SAMPLE BOTTLE NUMBER			
1	36																			SAL.	NUTR.	CHL.	WHIT'S NUTR.
2	36																						
3	23																						
4	23																						
5	17																						
6	17																						
7	9																						
8	9																						
9	5																						
10	5																						
11	0																						
12	0																						

3.12

2

Sal on upcast = const to 15m

Sal on upcast = const to 15m

VESSEL		PROJECT & LEG		STATION DESIGNATION																			
Alpha Helix		HX249 222		230° 1.0 P4E 1.1																			
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID						
	DEG	MIN	DEG	MIN														DAY	MO	YR	HR	MIN	
098	51	47.99	N	16	04	02	7	W	01	A	U	G	9	9	9	9	9	9					
CTD		TIMES		JD/TIME		DATA LOCATION																	
TYPE & SN		DATA ON		Tape/Diskette ID		File Name/Header																	
PRESS SN		START DOWN																					
TEMP SN		AT DEPTH																					
COND SN		AT SURFACE																					
TEMP SN																							
MAX. DEPTH =		m																					
REMARKS																							
CLEANED AIR BLEED VALVE																							
SAMPLE BOTTLE DATA																							
SAMPLE BOTTLE NUMBER																							
SAL.		NUTR.		CHL.		WHIT'S																	
SALINITY		SEC. TEMP.		PRI. TEMP.		PRESSURE																	
1		13		30		20		15		0		7		8		9		10		11		12	





