

VESSEL Alpha Helix						PROJECT & LEG HX220				DSDB I.D.				STATION DESIGNATION <i>NIEH</i>																	
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	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	*	(m)									
181	58	25	.21	N	168	20	.93	W	6	JUN	99	15	55																		
SBF 9+0																															
PRESS SN		#	63503																												
PRI TEMP SN		1771																													
SEC TEMP SN		1772																													
PRI COND SN		2251																													
SEC COND SN		501																													
TRIP DEPTH																															
POS.																															
1		60																													
2		40																													
3		30																													
4		20																													
5		10																													
6		0																													
7																															
8																															
9																															
10																															
11																															
12																															

VESSEL		PROJECT & LEG				DSD8 I.D.				STATION DESIGNATION									
Alpha Helix		HX220								N1E9									
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	(m)		(m)			
182	58	29	90	N	6	JUN	99	16	43							59			
SBE 9+0		TIMES		JD/TIME		DATA LOCATION													
PRESS SN # 63503		DATA ON				File Name/Header													
PRI TEMP SN 1771		START DOWN																	
SEC TEMP SN 1772		AT DEPTH																	
PRI COND SN 2251		AT SURFACE																	
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN											
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																	
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA											SAMPLE BOTTLE NUMBER		
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

No Samples

Cleared air bleed valve

MAX. DEPTH = m

[illegible]



[illegible]

VESSEL Alpha Helix		PROJECT & LEG HX220		DSD8 I.D.		STATION DESIGNATION N163														
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)		(deg)	(m/s)			(m)			
1865843	0.86	N	168	0.30	W	1999	19	02									46			
SB9+0		TIMES		JD/TIME		DATA LOCATION													REMARKS	
PRESS SN # 63503		DATA ON				Tape/Diskette ID File Name/Header														
PRI TEMP SN 1771		START DOWN																		
SEC TEMP SN 1772		AT DEPTH																	Cleared air bleed valve	
PRI COND SN 2251		AT SURFACE																	MAX. DEPTH = m	
SEC COND SN 501		PAR SN		FLUOR SN		CNAM SN												TRANS. SN		
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																		
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA												SAMPLE BOTTLE NUMBER		
1																		SAL. Bio Chl. NUTR.		
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

VESSEL						PROJECT & LEG							DSD8 I.D.									STATION DESIGNATION															
Alpha Helix						HX220																NIEI															
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			DEG	MIN			DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	* * *	(deg)	(m/s)	(amt)	*	*	*	(m)						
1	87	58	48	.5	N	16	7	55	.	0	S	W	6	J	U	N	9	9	19	4	0	.	.							4	4						
SBCE 9+0		TIMES				JD/TIME				DATA LOCATION																REMARKS											
PRESS SN # 63503		DATA ON								Tape/Diskette ID File Name/Header																											
PRI TEMP SN 1771		START DOWN																																			
SEC TEMP SN 1772		AT DEPTH																								<input type="checkbox"/> Cleaned air bleed valve											
PRI COND SN 2251		AT SURFACE																								MAX. DEPTH = m											
SEC COND SN 501		<input type="checkbox"/>				PAR SN				<input type="checkbox"/>				FLUOR SN				<input type="checkbox"/>				CHAM SN				<input type="checkbox"/>				TRANS. SN							
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																		SAMPLE BOTTLE DATA						SAMPLE BOTTLE NUMBER											
		PRESSURE	PRI. TEMP.				SEC. TEMP.				SALINITY				SALINITY				SAL.						Bio	Chl.	WHIT'S NUTR.										
1	38																																				
2	20																																				
3	40																																				
4	0																																				
5																																					
6																																					
7																																					
8																																					
9																																					
10																																					
11																																					
12																																					

VESSEL Alpha Helix		PROJECT & LEG HX220		DSDB I.D.		STATION DESIGNATION N1C1							
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	WET BULB	DRY BULB	WIND DIRN.	WIND SPD.	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	(°C)	(°C)	(deg)	(m/s)	(m)	
188	58	1.8	168	5.8	W	6	JUN	99	20	30		145	
SBE 9+0		TIMES		JD/TIME		DATA LOCATION		REMARKS					
PRESS SN # 63503		DATA ON				Tape/Diskette ID		File Name/Header					
PRI TEMP SN 1771		START DOWN											
SEC TEMP SN 1772		AT DEPTH											
PRI COND SN 2251		AT SURFACE											
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN					
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		Bio		CHL.	
1	30	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY							WHIT's NUTR.	
2	20												
3	20												
4	20												
5	20												
6	10												
7	10												
8	0												
9													
10													
11													
12													



VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION	
Alpha Helix		HX220				N1C1	
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	WET BULB	WIND DIRN.	WIND SPD.
DEG MIN	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(deg)	(m/s)
1895852.10N	168 5.87W	6 JUN 99	2048				
SBE 9+0		JDTIME		DATA LOCATION			
PRESS SN # 63503		DATA ON		Tape/Diskette ID File Name/Header			
PRI TEMP SN 1771		START DOWN					
SEC TEMP SN 1772		AT DEPTH					
PRI COND SN 2251		AT SURFACE					
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN	
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
1	26	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAL.	CHL.
2	26						
3	17						
4	17						
5	11						
6	11						
7	7						
8	7						
9	4						
10	4						
11	0						
12	0						

VESSEL						PROJECT & LEG				DSDB I.D.				STATION DESIGNATION										
Alpha Helix						HX220								N/A										
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													
195	58	51.02	N	168	16.79	W	19	JUN	99	23	00													
SBE 9+0	TIMES			JD/TIME			DATA LOCATION																	
PRESS SN # 63503	DATA ON						Tape/Diskette ID			File Name/Header														
PRI TEMP SN 1771	START DOWN																							
SEC TEMP SN 1772	AT DEPTH																							
PRI COND SN 2251	AT SURFACE																							
SEC COND SN 501	<input checked="" type="checkbox"/> PAR SN			<input type="checkbox"/> FLUOR SN			<input type="checkbox"/> CHAM SN			<input type="checkbox"/> TRANS. SN														
POS.	TRIP	CTD CONVERTED MONITOR VALUES																						
	DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAMPLE BOTTLE DATA		SALINITY		SAL.		Bio	CHL.	WHIT'S NUTR.						
1	42																<input checked="" type="checkbox"/>	108						
2	30																<input checked="" type="checkbox"/>	107						
3	20																	106						
4	10																<input checked="" type="checkbox"/>	105						
5	2																							
6																								
7																								
8																								
9																								
10																								
11																								
12																								

[illegible]

[illegible]

[illegible]

VESSEL		PROJECT & LEG		DSD8 I.D.		STATION DESIGNATION	
Alpha Helix		HX220				N/A7	
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	SEA STATE
DEG MIN	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	PRESSURE
1945840.93N	16832.09W	7 JUN 99	0119				
SBE 9+0		JD/TIME		DATA LOCATION			
PRESS SN # 63503		DATA ON		Tape/Diskette ID File Name/Header			
PRI TEMP SN 1771		START DOWN					
SEC TEMP SN 1772		AT DEPTH					
PRI COND SN 2251		AT SURFACE					
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN	
CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		TRANS. SN	
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAL.	CHL.
1	50					194	✓
2	30					187	✓
3	20					187	✓
4	10					187	✓
5	0					187	✓
6							
7							
8							
9							
10							
11							
12							

VESSEL Alpha Helix		PROJECT & LEG HY220		DSD8 I.D.		STATION DESIGNATION N1A9											
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
1965236.14	4N	16837.20	W	7	U	99	0203									59	
SBE 9+0		TIMES		JD/TIME		DATA LOCATION		REMARKS									
PRESS SN # 63503		DATA ON				Tape/Diskette ID		File Name/Header									
PRI TEMP SN 1771		START DOWN															
SEC TEMP SN 1772		AT DEPTH															
PRI COND SN 2251		AT SURFACE															
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN									
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER											
1		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY												
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

NO Samples

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION						
Alpha Helix		HX220				NIAU						
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	WET BULB	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
196583	18° 42' N	108° 42' W	990627	1400	22.7	1	0	0	0	0	62	1411
SBE 9+0		TIMES		JD/TIME		DATA LOCATION		REMARKS				
PRESS SN	# 63503	DATA ON				Tape/Diskette ID		File Name/Header				
PRI TEMP SN	1771	START DOWN										
SEC TEMP SN	1772	AT DEPTH						Cleaned air bleed valve				
PRI COND SN	2251	AT SURFACE						MAX. DEPTH = m				
SEC COND SN	501	PAR SN		FLUOR SN		CHLOR SN		TRANS. SN				
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		WHIT'S NUTR.				
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	Bio	CHL.			
1	59.9											
2	40.1											
3	31.2											
4	20.4											
5	10.0											
6	3.2											
7												
8												
9												
10												
11												
12												

125  
124  
123  
122  
121  
120



VESSEL Alpha Helix		PROJECT & LEG HX220		DSDB I.D.		STATION DESIGNATION N/C12										
CONISC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
1975826.00 N	16838.25 W	04 JUN 99	0333												6341012	
SBE 9+0	TIMES		JD/TIME		DATA LOCATION		REMARKS									
PRESS SN # 63503	DATA ON		Tape/Diskette ID		File Name/Header											
PRI TEMP SN 1771	START DOWN															
SEC TEMP SN 1772	AT DEPTH															
PRI COND SN 2251	AT SURFACE															
SEC COND SN 501	PAR SN		FLUOR SN		CHAM SN											
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER										
1	61	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL	Bio	CHL	WHIT's NUTR.						
2	70.5															
3	31.4															
4	21.6															
5	10.3															
6	2.9															
7																
8																
9																
10																
11																
12																

130  
129  
128  
124  
126

VESSEL			PROJECT & LEG			DSDB I.D.			STATION DESIGNATION							
Alpha Helix			HX220						KIC 11							
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										
	198	58.28.43 N	168	31.85 W	04	JUN	99	08	27						62	KIC 11
SBE 9+0			TIMES		JD TIME		REMARKS									
PRESS SN # 63503			DATA ON		Tape/Diskette ID		File Name/Header									
PRI TEMP SN 1771			START DOWN													
SEC TEMP SN 1772			AT DEPTH													
PRI COND SN 2251			AT SURFACE													
SEC COND SN 501			PAR SN		FLUOR SN		MAX. DEPTH = m									
			CHAM SN		TRANS. SN											
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES														
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER								
1	60.6					19801										
2	39.8															
3	31.0															
4	20.0															
5	10.1															
6	3.9															
7																
8																
9																
10																
11																
12																

VESSEL Alpha Helix		PROJECT & LEG HX220		DSDB I.D.		STATION DESIGNATION																							
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)		WET BULB (°C)		PRESSURE (mb)		SEA STATE (deg)		WIND DIRN. SPD. (m/s)		WIND TYPE (m/s)		WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID			
159		58 33.04 N		158 26.44 W		JUN 9 052																				594/09			
SBE 9+0																													
PRESS SN # 63523																													
PRI TEMP SN 1771																													
SEC TEMP SN 1772																													
PRI COND SN 2251																													
SEC COND SN 501																													
POS. TRIP DEPTH																													
1																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

CTD CONVERTED MONITOR VALUES

SAMPLE BOTTLE DATA

SAMPLE BOTTLE DATA

SAMPLE BOTTLE DATA

SAMPLE BOTTLE DATA

SAMPLE BOTTLE DATA

SAMPLE BOTTLE DATA

SAMPLE BOTTLE DATA

SAMPLE BOTTLE DATA

VESSEL Alpha Helix		PROJECT & LEG HX220		DSDB I.D.		STATION DESIGNATION N1C12																			
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)		WET BULB (°C)		PRESSURE (mb)		SEA STATE VISIBILITY		WIND DIRN. SPD. (deg) (m/s)		CLOUD (amt) TYPE WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID	
2005826.00		N 16 34.32 W		168 34.32 W		7 JUN 99		1406														64			
SBE 9+0																									
PRESS SN # 63503		DATA ON																							
PRI TEMP SN 1771		START DOWN																							
SEC TEMP SN 1772		AT DEPTH																							
PRI COND SN 2251		AT SURFACE																							
SEC COND SN 501		PAR SN																							
POS. TRIP DEPTH																									
1 10																									
2 10																									
3 10																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

REMARKS

Terry's Cast

DATA LOCATION

Tape/Diskette ID File Name/Header

Cleaned air bleed valve

MAX. DEPTH = m

TRANS. SN

SAMPLE BOTTLE NUMBER

CTD CONVERTED MONITOR VALUES

CHAM SN

FLUOR SN

PAR SN

SALINITY

SALINITY

SEC. TEMP

PRI. TEMP.

PRESSURE

SAL. Bio Chl. WHIT's NUTR.

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION												
Alpha Helix		HX220				N1212												
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			
201	58 26.02 N	168 34.38 W	7 JUN 99	1400										64				
SBE 9+0		TIMES		JD/TIME		REMARKS												
PRESS SN # 63523		DATA ON				Tape/Diskette ID		Data Location										
PRI TEMP SN 1771		START DOWN						File Name/Header										
SEC TEMP SN 1772		AT DEPTH						Cleared air bleed valve										
PRI COND SN 2251		AT SURFACE						MAX. DEPTH = m										
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN										
TRIP DEPTH		SAMPLE BOTTLE DATA																
POS.		CTD CONVERTED MONITOR VALUES																
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY									SAL.	Bio	CHL.	WHIT'S NUTR.
1	35																	
2	35																	
3	35																	
4	35																	
5	0																	
6	0																	
7	0																	
8	0																	
9																		
10																		
11																		
12																		

VESSEL		PROJECT & LEG				DSD8 I.D.		STATION DESIGNATION										
Alpha Helix		HX220						NEX 6										
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)		(deg)	(m/s)			(m)	
20259	2.52N	167	39.13	SW	7	JUN	99	23	27								40	
S8E 9+0		TIMES		JD/TIME		DATA LOCATION		REMARKS										
PRESS SN # 63503		DATA ON		Tape/Diskette ID		File Name/Header												
PRI TEMP SN 1771		START DOWN																
SEC TEMP SN 1772		AT DEPTH																
PRI COND SN 2251		AT SURFACE																
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN										
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER										
1	25	PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY					SAL.	Bio	CHL.	WHIT'S NUTR.					
2	25									20.0								
3	25									20.0								
4	25																	
5	25																	
6	15																	
7	0																	
8																		
9																		
10																		
11																		
12																		

[illegible]

VESSEL Alpha Helix		PROJECT & LEG HY220		DSDB I.D.		STATION DESIGNATION N1617										
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	WET BULB (°C)	DRY BULB (°C)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
2045816.71	16.71	N	116.844	4.59	W	8 JUN 99	16.09							6.8		
SBE 9+0	TIMES		JD/TIME		DATA LOCATION										REMARKS	
PRESS SN # 63503	DATA ON				Tape/Diskette ID										File Name/Header	
PRI TEMP SN 1771	START DOWN															
SEC TEMP SN 1772	AT DEPTH															
PRI COND SN 2251	AT SURFACE														Cleaned air bleed valve	
SEC COND SN 501	PAR SN		FLUOR SN		CHAM SN		TRANS. SN		MAX. DEPTH = m							
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES													SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER
1	65	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	Bio	CHL.	WHIT'S NUTR.						
2	50															
3	40															
4	30															
5	20															
6	10															
7	0															
8																
9																
10																
11																
12																



VESSEL Alpha Helix		PROJECT & LEG HX220		DSDB I.D.		STATION DESIGNATION 21615																					
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB		PRESSURE		SEA STATE		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
20558		12.04N		168.49W		8 JUN 99		1700		.		.		.		.		.		.		.		70			
SBE 9+0		TIMES		JD/TIME		DATA LOCATION		REMARKS																			
PRESS SN # 63503		DATA ON				Tape/Diskette ID		File Name/Header																			
PRI TEMP SN 1771		START DOWN																									
SEC TEMP SN 1772		AT DEPTH																									
PRI COND SN 2251		AT SURFACE																									
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS SN																			
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SALINITY		SAL.		Bio		CHL		WHIT's NUTR.											
1		65		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY																	
2		50																									
3		40																									
4		30																									
5		20																									
6		10																									
7		0																									
8																											
9																											
10																											
11																											
12																											

404

VESSEL		PROJECT & LEG				DSDB I.D.		STATION DESIGNATION									
Alpha Helix		HX220						10004									
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=			TIME (GMT)		DRY BULB	WET BULB	PRESSURE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	•	(deg)	(m/s)	•	(m)	
201058	8.66N	169.2.16SW	8	JUN	9	17	53									7	
SB9+0		TIMES		JD/TIME		REMARKS											
PRESS SN	# 63503	DATA ON		Tape/Diskette ID File Name/Header													
PRI TEMP SN	1771	START DOWN															
SEC TEMP SN	1772	AT DEPTH															
PRI COND SN	2251	AT SURFACE		<input type="checkbox"/> Cleaned air bleed valve MAX. DEPTH = m													
SEC COND SN	501	<input type="checkbox"/> PAR SN		<input type="checkbox"/> FLUOR SN		<input type="checkbox"/> CHAM SN		<input type="checkbox"/> TRANS SN		SAMPLE BOTTLE NUMBER							
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES															
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY		SALINITY		SALINITY		SAL.		Bio	CHL.	WHIT'S NUTR.		
1	67														417		
2	50													✓	416		
3	40												✓		415		
4	30												✓		414		
5	20												✓		413		
6	10												✓		412		
7	0												✓		411		
8																	
9																	
10																	
11																	
12																	

[illegible]

VESSEL		PROJECT & LEG				DSDB I.D.		STATION/DESIGNATION								
Alpha Helix		HY220						1000-3								
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	SEC	(mb)	(deg)	(m/s)	(%)			
2085	759.13	N	16935.93	W	8	JUN	99	20	09						71	
SBE 9+0		TIMES		JD/TIME		DATA LOCATION										
PRESS SN # 63523		DATA ON				File Name/Header										
PRI TEMP SN 1771		START DOWN				Tape/Diskette ID										
SEC TEMP SN 1772		AT DEPTH														
PRI COND SN 2251		AT SURFACE				Cleared air bleed valve										
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN								
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES												
				PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		
1	65															
2	40															
3	30															
4	20															
5	10															
6	0															
7																
8																
9																
10																
11																
12																

VESSEL		PROJECT & LEG				DSDB I.D.		STATION DESIGNATION															
Alpha Helix		HX220						Terry 4															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID							
2095754.52	52N	16952.59W	8	JUN	9	21	47								73								
SBE 9+0		TIMES		JD/TIME		DATA LOCATION																	
PRESS SN # 63523		DATA ON				File Name/Header																	
PRI TEMP SN 1771		START DOWN				Tape/Diskette ID																	
SEC TEMP SN 1772		AT DEPTH																					
PRI COND SN 2251		AT SURFACE				Cleared air bleed valve																	
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN		MAX. DEPTH = m													
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																					
		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		BIO		CHL.		WHIT'S NUTR.	
1	67																						
2	50																						
3	40																						
4	30																						
5	20																						
6	10																						
7	0																						
8																							
9																							
10																							
11																							
12																							

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[illegible]

[illegible]

VESSEL						PROJECT & LEG							DSDB I.D.								STATION DESIGNATION								
Alpha Helix						HX220															SP-5								
CONSC CAST #	LATITUDE		LONGITUDE			DATE JD=			TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID								
	DEG	MIN	DEG	MIN	SEC	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	%		(m)									
215	54	24	N	140	15	98	WD	9	JUN	99										405	SP-5								
SBE 9+0						JD/TIME			DATA LOCATION													REMARKS							
PRESS SN	# 63503		DATA ON			Tape/Diskette ID													File Name/Header										
PRI TEMP SN	1771		START DOWN																										
SEC TEMP SN	1772		AT DEPTH																										
PRI COND SN	2251		AT SURFACE																<input type="checkbox"/> Cleaned air bleed valve										
SEC COND SN	501		<input type="checkbox"/>	PAR SN	<input type="checkbox"/>	FLUOR SN	<input type="checkbox"/>	CHAM SN	<input type="checkbox"/>														MAX. DEPTH = m						
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																				SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER					
1	64	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY																SALINITY		SAL.	Bio	CHL	WHIT'S NUTR.			
2	40.4					220-205-01																							
3	29.9																												
4	19.9																												
5	10.5																												
6	3.2																												
7																													
8																													
9																													
10																													
11																													
12																													

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[illegible]

VESSEL Alpha Helix		PROJECT & LEG HX220				DSDB I.D.				STATION DESIGNATION								
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
2185	41.04	140.5	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09	
SBE 9+0		TIMES		JD/TIME		DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS						
PRESS SN	# 63523		DATA ON															
PRI TEMP SN	1771		START DOWN															
SEC TEMP SN	1772		AT DEPTH															
PRI COND SN	2251		AT SURFACE															
SEC COND SN	501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER					
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		Blo	CHL	WHIT'S NUTR.		
1	15																	
2	0																	
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

702d?

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION								
Alpha Helix		HX220								5762								
CONSC CAST #	LATITUDE	LONGITUDE			DATE JD=			TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
DEG	MIN	DEG	MIN	SEC	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	(deg)	(m/s)	*	(m)	
219	5453	20	N	8003	99	W	09	1321									825	95A
<div> <div> <div>SSE 9+0</div> <div> <div>DATA ON</div> <div>START DOWN</div> <div>AT DEPTH</div> <div>AT SURFACE</div> </div> </div> <div> <div>TIME</div> <div>JD/TIME</div> </div> <div> <div>DATA LOCATION</div> <div>Tape/Diskette ID</div> <div>File Name/Header</div> </div> </div>																		
PRESS SN # 63503		PRI TEMP SN 1771		SEC TEMP SN 1772		PRI COND SN 2251		SEC COND SN 501		<div> <div>PAR SN</div> <div>FLUOR SN</div> <div>CHAM SN</div> </div>		<div> <div>TRANS. SN</div> <div>SAMPLE BOTTLE NUMBER</div> </div>		<div> <div>REMARKS</div> <div>Cast for Collect?</div> <div>Cleaned air bleed valve</div> <div>MAX. DEPTH = m</div> </div>				
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		WHIT'S NUTR.		
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY							SAL.	CHL.					
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

VESSEL						PROJECT & LEG								DSDB I.D.				STATION DESIGNATION						
Alpha Helix						HX220												SP603						
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						
220	57	6.73 N	170	9.93 W	9	JUN	99	15	05															
SBE 9+0	TIMES		JD/TIME		DATA LOCATION													REMARKS						
PRESS SN # 63503	DATA ON				Tape/Diskette ID													File Name/Header						
PRI TEMP SN 1771	START DOWN																							
SEC TEMP SN 1772	AT DEPTH																	<input type="checkbox"/> Cleaned air bleed valve						
PRI COND SN 2251	AT SURFACE																	MAX. DEPTH = m						
SEC COND SN 501	<input type="checkbox"/>		PAR SN		<input type="checkbox"/>		FLUOR SN		<input type="checkbox"/>		CHAM SN		<input type="checkbox"/>		TRANS. SN									
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER					
1	24	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY												SAL.	Bio	CHL	WHIT'S NUTR.				
2	10																			474				
3	0																			473				
4																				472				
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								