

[illegible]

[illegible]

145 10 153

PG ____ OF ____

VESSEL Alpha Helix		PROJECT & LEG HX209		STATION DESIGNATION CNC6																									
CON SC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)		WET BULB (°C)		PRESSURE (mb)		SEA STATE VISIBILITY		WIND DIRN. (deg)		WIND SPOD. (m/s)		CLOUD (amt)		WEATHER		BOTTO M DEPT H		STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	
153	29	9	10	N	163	19	8	20	W	11	JUN	98	06	27															
CTD		TIMES		JD/TIME		DATA LOCATION																				REMARKS			
TYPE & SN SB911+		DATA ON		Tape/Diskette ID																				File Name/Header					
PRESS SN		50403		START DOWN																									
TEMP SN		11390		AT DEPTH																									
COND SN		c501		AT SURFACE																									
TEMP SN		d1133		AT SURFACE																									
TEMP SN		t1391		AT SURFACE																									
POS		TRIP		DEPTH		CTD CONVERTED MONITOR VALUES																				SAMPLE BOTTLE NUMBER			
1		45		30		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SALINITY		SAL.		NUTR.		CHL.		HPLC		Other			
2		30		20																									
3		20		10																									
4		10		0																									
5		0																											
6																													
7																													
8																													
9																													
10																													
11																													
12																													

MAX. DEPTH = m

VESSEL Alpha Helix		PROJECT & LEG HX209		STATION DESIGNATION NIC12									
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	WET BULB (°C)	DRY BULB (°C)	WIND DIRN. (deg)	WIND D SP (m/s)	WIND TYPE (m/s)	WIND WEATHER	BOTTO M DEPT H	STA. NAME/ID	
115458	16.73 N	168.44.58 W	21 JUN 98	0722							67m	NIC12	
CTD TIMES JD/TIME TYPE & SN SB911+ DATA ON PRESS SN 52405 START DOWN TEMP SN 11390 AT DEPTH COND SN c501 AT SURFACE TEMP SN 11391													
DATA LOCATION Tape/Diskette ID File Name/Header MAX. DEPTH = m													
REMARKS 10 sec. of sheet													
TRANSMISSOMETER <input checked="" type="checkbox"/> Cleaned air bleed valve CTD CONVERTED MONITOR VALUES <input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input type="checkbox"/> CHAM <input type="checkbox"/>													
POS TRIP DEPTH	SAMPLE BOTTLE NUMBER												
	SAMPLE DATA												
	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL	NUTR.	CHL.	HPLC	Other			
1	61					15.4	01						
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

Trans

4,574 1104,564(2)

11 June 2030

See ADCP

Record just before this

cast

Fluor. suddenly

↑ started

59015'

16805

02.16816

depths of

near W1212

(just to

WNW of it)

Changed
setting from
3x to 1x
or
flashed
was already
at lowest
setting

VESSEL Alpha Helix		PROJECT & LEG HX209		STATION DESIGNATION NLE2													
CON SC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	WIND DIRN. (deg)	WIND SPEED (m/s)	WIND TYPE	WEATHER	BOTTO M DEPT H	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(deg)	(m/s)	(m)	(m)		
	18	52	46	19	N	16	35	7	52	W	12	JUN	9	8	18	32	
CTD	TIMES		JD/TIME		DATA LOCATION												
TYPE & SN SB911+	DATA ON		Tape/Diskette ID File Name/Header														
PRESS SN	START DOWN																
TEMP SN	AT DEPTH																
COND SN	AT SURFACE																
TEMP SN	AT SURFACE																
POS	TRIP	DEPTH	CTD CONVERTED MONITOR VALUES														
			<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input type="checkbox"/> CHAM	<input checked="" type="checkbox"/> TRANSMISSOMETER	<input type="checkbox"/> Cleaned air bleed valve	SAMPLE BOTTLE NUMBER									
			PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL. NUTR.		CHL.	HPLC	Other
1	20																
2	15																
3	10																
4	5																
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

MAX. DEPTH = m

Deck Prod

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX209		N/A 6	
CON	LATITUDE		LONGITUDE		DATE JD=
SC	DEG	MIN	DEG	MIN	DAY MO YR
CAST	160 58 43.32 N		168 29.37 W		13 JUN 98
#	160		168		29
	TIME		JD/TIME		REMARKS
	1605		16829.37		5/1
	TYPE & SN SB911+		DATA ON		
	5040		START DOWN		
	PRESS SN		AT DEPTH		
	11390		AT SURFACE		
	COND SN		AT SURFACE		
	4 1133		AT SURFACE		
	TEMP SN		AT SURFACE		
	11391		AT SURFACE		
POS	TRIP		CTD CONVERTED MONITOR VALUES		
	DEPTH				
1	48				
2	30				
3	20				
4	10				
5	0				
6					
7					
8					
9					
10					
11					
12					

[illegible]

eat but how?

VESSEL		PROJECT & LEG		STATION DESIGNATION									
Alpha Helix		HX209		N/A //									
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	WIND DIR.	WIND SPEED (m/s)	CLOUD (%)	SEA STATE	VISIBILITY	BOTTOM DEPT H	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(deg)	(m/s)	(%)			H	
1625831.62	N 16 84 2.35	W 13 JUN 98	19 21									61	
CTD		TIMES	JD/TIME	DATA LOCATION									
TYPE & SN SB911+ 50405 P5040		START DOWN		Tape/Diskette ID File Name/Header									
TEMP SN t1390		AT SURFACE											
COND SN c501 t1393		AT SURFACE											
TEMP SN t1391		PAR	FLUOR	CHAM	TRANSMISSOMETER								
POS TRIP DEPTH		CTD CONVERTED MONITOR VALUES											
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE DATA							
						SALINITY							
1	58												
2	50												
3	40												
4	30												
5	20												
6	-10												
7	0												
8													
9													
10													
11													
12													
		MAX. DEPTH =		m									
		CLEANED AIR BLEED VALVE		SAMPLE BOTTLE NUMBER									
				SAL NUTR CHL HPLC Other									
				605 604 603 602 601 600 599 ✓ ✓									

VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX209		N/A	
CON		DATE JD=		BOTTO	
SC				M DEPT	
CST				H	
#				(m)	
LATITUDE	LONGITUDE	TIME (GMT)		WIND DIRECTION	
DEG MIN	DEG MIN	DAY MO YR	HR MIN	(deg)	(m/s)
164 58 31.79 N	168 42 21 W	10 3 19	11 19		
CTD	TIMES	JD/TIME		REMARKS	
TYPE & SN	DATA ON	Tape/Diskette ID		Deck Prod.	
RESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				
TEMP SN					
POS TRIP	DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE NUMBER	
1	6	PRESSURE		SALINITY	
2	10	PRI. TEMP.		SALINITY	
3	10	SEC. TEMP.		SALINITY	
4	10			SALINITY	
5	10			SALINITY	
6	5			SALINITY	
7	5			SALINITY	
8	5			SALINITY	
9				SALINITY	
10				SALINITY	
11				SALINITY	
12				SALINITY	

VESSEL		PROJECT & LEG		STATION DESIGNATION								
Alpha Helix		HX209		V13N								
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD=	TIME (GMT)	DY BULB (°C)	WET BULB (°C)	WIND DIRN. (deg)	WIN D SP. (m/s)	WEATHER	BOTTO M DEPT H	STA NAME/ID	
	165 DEG MIN	168737-1	SW13 JUN 98	1750								
CTD	TIMES	JD/TIME	DATA LOCATION									
TYPE & SN SB911+	DATA ON		Tape/Diskette ID File Name/Header									
PRESS SN	START DOWN											
TEMP SN	AT DEPTH											
COND SN	AT SURFACE											
TEMP SN	↓ 1133											
POS TRIP DEPTH	11391											
			<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input type="checkbox"/> CHAM	<input checked="" type="checkbox"/> TRANSMISSOMETER	Cleaned air bleed valve	MAX. DEPTH = m				
			CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER					
	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY		SALINITY		SAL.	NUTR.	CHL.	HPLC	Other
1	1652							103				
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX209		N139	
CON	SC	DATE JD=		BOTTO M DEPT	
CAST	#	TIVE (GV/T)		H	
LATITUDE		LONGITUDE		ST/ NAME/ID	
DEG MIN		DEG MIN		H (m)	
16 34.67 N		16 83.11 W		57 N139	
CTD		JD/TIME		REMARKS	
TYPE & SN SB911+		DATA ON			
PRESS SN 5040		START DOWN			
TEMP SN 11390		AT DEPTH			
COND SN 501		AT SURFACE			
TEMP SN 1133					
MAX. DEPTH =		m			
CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		CLEANED AIR BLEED VALVE	
PAR		FLUOR		SAMPLE BOTTLE NUMBER	
PRESSURE		SEC. TEMP		SALINITY	
1		2		3	
2		3		4	
3		4		5	
4		5		6	
5		6		7	
6		7		8	
7		8		9	
8		9		10	
9		10		11	
10		11		12	
11		12			
12					

Trans
1502-4503

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION								
Alpha Helix		HX209		N136								
CON	LATITUDE	LONGITUDE	DATE JD=	TIME	DRY	WET	WIND	WIN	CLOUD	WEATHER	BOTTO	STA. NAME/ID
SC	DEG MIN	DEG MIN	DAY MO YR	HR MIN	BULB (°C)	BULB (°C)	DIRN. (deg)	D SP	(amt)		M DEPT	
CAST								D.	(m/s)		H	
#											(m)	
1108	11.59 N	168.24 W	13 JUN 98	21 35							5 M	
1109	11.58 N	168.24 W	13 JUN 98	21 35								
1110	11.57 N	168.24 W	13 JUN 98	21 35								
1111	11.56 N	168.24 W	13 JUN 98	21 35								
1112	11.55 N	168.24 W	13 JUN 98	21 35								
1113	11.54 N	168.24 W	13 JUN 98	21 35								
1114	11.53 N	168.24 W	13 JUN 98	21 35								
1115	11.52 N	168.24 W	13 JUN 98	21 35								
1116	11.51 N	168.24 W	13 JUN 98	21 35								
1117	11.50 N	168.24 W	13 JUN 98	21 35								
1118	11.49 N	168.24 W	13 JUN 98	21 35								
1119	11.48 N	168.24 W	13 JUN 98	21 35								
1120	11.47 N	168.24 W	13 JUN 98	21 35								
1121	11.46 N	168.24 W	13 JUN 98	21 35								
1122	11.45 N	168.24 W	13 JUN 98	21 35								
1123	11.44 N	168.24 W	13 JUN 98	21 35								
1124	11.43 N	168.24 W	13 JUN 98	21 35								
1125	11.42 N	168.24 W	13 JUN 98	21 35								
1126	11.41 N	168.24 W	13 JUN 98	21 35								
1127	11.40 N	168.24 W	13 JUN 98	21 35								
1128	11.39 N	168.24 W	13 JUN 98	21 35								
1129	11.38 N	168.24 W	13 JUN 98	21 35								
1130	11.37 N	168.24 W	13 JUN 98	21 35								
1131	11.36 N	168.24 W	13 JUN 98	21 35								
1132	11.35 N	168.24 W	13 JUN 98	21 35								
1133	11.34 N	168.24 W	13 JUN 98	21 35								
1134	11.33 N	168.24 W	13 JUN 98	21 35								
1135	11.32 N	168.24 W	13 JUN 98	21 35								
1136	11.31 N	168.24 W	13 JUN 98	21 35								
1137	11.30 N	168.24 W	13 JUN 98	21 35								
1138	11.29 N	168.24 W	13 JUN 98	21 35								
1139	11.28 N	168.24 W	13 JUN 98	21 35								
1140	11.27 N	168.24 W	13 JUN 98	21 35								
1141	11.26 N	168.24 W	13 JUN 98	21 35								
1142	11.25 N	168.24 W										

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[illegible]

VESSEL Alpha Helix		PROJECT & LEG HX209		STATION DESIGNATION N182	
CON SC CAST #	LATITUDE DEG MIN		LONGITUDE DEG MIN		DATE JD=
171	13-33 N		168-11.3 W		2 JUN 98
	TIME HR MIN		TIME HR MIN		DRY BULB (°C)
	23 17		23 17		
CTD	TIMES		JD/TIME		WET BULB (°C)
TYPE & SN SB911+	DATA ON				
PRESS SN 52403	START DOWN				
TEMP SN 11390	AT DEPTH				
COND SN 501	AT SURFACE				
TEMP SN 11391					
POS	CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		Cleaned air bleed valve
TRIP DEPTH:			<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input type="checkbox"/> CHAM		SAMPLE BOTTLE DATA
					SAMPLE BOTTLE NUMBER
1	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAL. NUTR. CHL. HPLC Other
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

MAX. DEPTH = m

[illegible]

[illegible]

VESSEL Alpha Helix		PROJECT & LEG HX209		STATION DESIGNATION N163	
CON SC CAST #	LATITUDE DEG MIN		LONGITUDE DEG MIN		DATE JD=
174	47.03N		168.12W		14 JUN 98
174	47.03N		168.12W		14 JUN 98
CTD	TIMES		JD/TIME		REMARKS
TYPE & SN SB911+	DATA ON		Tape/Diskette ID		File Name/Header
PRESS SN	START DOWN				
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				
TEMP SN	AT SURFACE				
MAX. DEPTH = m					
<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input type="checkbox"/> CHAM <input checked="" type="checkbox"/> TRANSMISSOMETER <input type="checkbox"/> Cleaned air bleed valve					
POS	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER
DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAL
1	640				620
2	30				619
3	20				618
4	10				617
5	0				616
6					
7					
8					
9					
10					
11					
12					

Colvet

[illegible]

VESSEL Alpha Helix		PROJECT & LEG HX209		STATION DESIGNATION NIC 5											
CON SC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	WIND DIRN. (deg)	WIND SPEED (m/s)	WEATHER (amt)	BOTTO M DEPT H	STA. NAME/ID	
DEG	MIN	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN				(m)	
176	52	42.39	N	16	01	6	11	W	14	JUN	98	0	14	4	17
CTD		TIMES		JD/TIME		DATA LOCATION									REMARKS
TYPE & SN SB911+		DATA ON		Tape/Diskette ID									File Name/Header		
PRESS SN		50403		START DOWN											
TEMP SN		11390		AT DEPTH											
COND SN		c501		AT SURFACE											
TEMP SN		t1391													
MAX. DEPTH = m															
<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input type="checkbox"/> CHLOR <input checked="" type="checkbox"/> TRANSMISSOMETER <input type="checkbox"/> Cleaned air bleed valve															
POS	TRIP	CTD CONVERTED MONITOR VALUES													
DEPTH		PRESSURE		PRI. TEMP		SEC. TEMP		SALINITY		SALINITY		SAMPLE BOTTLE DATA			
1	44											SAL. NUTR. CHL. HPLC Other			
2	30											176 630 629 ✓ 100			
3	20											628 ✓			
4	10											627 ✓			
5	0											626 ✓			
6															
7															
8															
9															
10															
11															
12															

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Dear's phyt.

[illegible]

VESSEL Alpha Helix		PROJECT & LEG HX209		STATION DESIGNATION NIC 7									
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	WIND DIRN. (deg)	WIND SPEED (m/s)	WIND TYPE	WEATHER	BOTTO M DEPT H	STA. NAME/ID	
17853	37.72N	168.21W	14 JUN 98	0243							51		
CTD		TIMES		JD/TIME		DATA LOCATION							
TYPE & SN SB911+		DATA ON		Tape/Diskette ID		File Name/Header							
PRES3 SN 5040		START DOWN											
TEMP SN 11390		AT DEPTH											
COND SN 501		AT SURFACE											
TEMP SN 1133													
TEMP SN 11391													
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES											
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER				
							SAL.	NUTR.	CHL.	HPLC	Other		
1	49						641					DOC	
2	40						640						
3	30						639		✓				
4	20						638						
5	10						637						
6	0						636		✓				
7													
8													
9													
10													
11													
12													

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VESSEL		PROJECT & LEG		STATION DESIGNATION							
Alpha Helix		HX209		N1C9							
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	WET BULB (°C)	WIND DIRN. (deg)	WIND SPEED (m/s)	WIND TYPE	WEATHER	BOTTO M DEPT H	STA. NAME/ID
18058	33.07N	168.26.5W	14 JUN 98	0344						57	
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS			
TYPE & SN SB911+		DATA ON		Tape/Diskette ID		File Name/Header					
PRES3 SN 5040		START DOWN									
TEMP SN 11390		AT DEPTH									
CONC SN 501		AT SURFACE									
TEMP SN 1133											
TEMP SN 11391											
POS		CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		Cleaned air bleed valve					
TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
1 53								SAL.	NUTR.	CHL	HPLOC Other
2 40								653			Doc
3 30								652			
4 20								651			
5 10								650			
6 0								649			
7								648			
8											
9											
10											
11											
12											

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[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION																			
Alpha Helix		HX209		NIC 11																			
CON	SC	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB (°C)		WIND DIRN. (deg)		WIND SPO. D. (m/s)		CLOUD (amt)		WEATHER		BOTTO M DEPT H		STA NAME/ID	
CAST	#	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	°C	°C	(deg)	(m/s)	(m)								
1825	28	16	23	16	23	16	23	16	23	16	23	16	23	16	23								
CTD		TIMES		JD/TIME		DATA LOCATION																	
TYPE & SN SB911+		DATA ON				Tape/Diskette ID File Name/Header																	
PRES3 SN		50403		p5040		START DOWN																	
TEMP SN		t1390		AT DEPTH																			
CONC SN		c501		AT SURFACE																			
TEMP SN		t1391		AT SURFACE																			
POS		TRIP		DEPTH		CTD CONVERTED MONITOR VALUES																	
						<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input type="checkbox"/> CHAM <input checked="" type="checkbox"/> TRANSMISSOMETER <input type="checkbox"/> Cleaned air bleed valve																	
						SAMPLE BOTTLE DATA																	
						SAMPLE BOTTLE NUMBER																	
						SAL. NUTR. CHL. HPLC Other																	
1	57																						
2	50																						
3	40																						
4	30																						
5	20																						
6	10																						
7	0																						
8																							
9																							
10																							
11																							
12																							

→ on table
as NC11

VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX209		NIC12	
CON SC CAST	LATITUDE		LONGITUDE		DATE JD=
#	DEG	MIN	DEG	MIN	DAY MO YR
183	58	26.09	168	34	14 JUN 98
183	58	26.09	168	34	14 JUN 98
CTD	TIMES		JD/TIME		REMARKS
TYPE & SN	SB911+		DATA ON		
PRESS SN	50403		START DOWN		
TEMP SN	11390		AT DEPTH		
COND SN	501		AT SURFACE		
TEMP SN	11391		AT SURFACE		
POS	TRIP	CTD CONVERTED MONITOR VALUES			
DEPTH		SAMPLE BOTTLE NUMBER			
		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY
1	58				673 ✓
2	50				672
3	40				671
4	30				670 ✓
5	20				649 ✓
6	10				648
7	0				697 ✓
8					
9					
10					
11					
12					

MAX. DEPTH = m

VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX209		NIC13	
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	WET BULB (°C)
184	21.4	16839.3	5 JUN 98	18	18
CTD	TIMES	JD/TIME	DATA LOCATION		
TYPE & SN SB911+	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	SAMPLE BOTTLE NUMBER		
1	61		SAMPLE BOTTLE DATA	SAL	NUTR
2	50			184	680
3	40			679	679
4	30			678	678
5	20			677	677
6	10			676	676
7	0			675	675
8				674	674
9					
10					
11					
12					

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX209		NICO 9	
CON					
SC					
CAST					
#					
DEG	MIN	DEG	MIN	DATE	JD=
186	58	16	82	14 JUN 98	0819
LATITUDE		LONGITUDE		TIME	
186 58 31.53 N		168 21 00 W		14 JUN 98 0819	
TIMES		JD/TIME		DATA LOCATION	
CTD				Tape/Diskette ID File Name/Header	
TYPE & SN SB911+		DATA ON			
PRES: SN 5040		START DOWN			
TEMP SN 11390		AT DEPTH			
COND SN 501		AT SURFACE			
TEMP SN 11391					
MAX. DEPTH =					
CLEANED AIR BLEED VALVE					
SAMPLE BOTTLE NUMBER					
SALINITY					
NUTR.					
CHL.					
HPLO					
Other					
PRESSURE		PRI. TEMP.		SEC. TEMP.	
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

[illegible]

VESSEL	PROJECT & LEG	STATION DESIGNATION
Alpha Helix	HX209	N106
CON SC CAST #	LATITUDE DEG MIN DEG MIN	LONGITUDE DEG MIN DEG MIN
DATE JD= DAY MO YR	TIME (GMT) HR MIN	DY WET BULB °C DRY BULB °C
WIND DIRN. (deg)	WIN D SP. (m/s)	CLOUD (amt)
WEATHER	BOTTO M DEPT H	STA. NAME/D
(in)		
REMARKS		
DATA LOCATION	Tape/Diskette ID File Name/Header	
MAX. DEPTH = m		
CTD	TIMES JD/TIME	
TYPE & SN SB911+ 50403 p5040	DATA ON	
PRESS SN t1390 AT DEPTH		
COND SN c501 AT SURFACE		
TEMP SN t1391		
POS TRIP DEPTH	CTD CONVERTED MC NITOR VALUES	SAMPLE BOTTLE NUMBER
	X PAR X FLUOR X CHAM X TRANSMISSOMETER Cleaned air bleed valve	
1	PRESSURE PRI TEMP SEC TEMP SALINITY	SAL NUTR CHL HPLC Other
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

VESSEL		PROJECT & LEG				STATION DESIGNATION																										
Alpha Helix		HX209				41003																										
CON	SC	CAST	#	LATITUDE	DEG	MIN	LONGITUDE	DEG	MIN	DATE	JD=	TIME	(GMT)	DRY	BULB	(°C)	WET	BULB	(°C)	WIND	DIRN.	(deg)	WIND	SPD	(m/s)	WEATHER	CLD	AMT	BOTTO	M DEPT	H	STA. NAME/ID
189	58	40.55	N	168	10	35	W	5	JUN	98	0942																					
CTD		TIMES		JD/TIME		DATA LOCATION										REMARKS																
TYPE & SN SB911+		DATA ON				Tape/Diskette ID File Name/Header																										
PRESS SN		52403		START DOWN																												
TEMP SN		11390		AT DEPTH																												
COND SN		c501		AT SURFACE																												
TEMP SN		41133																														
TEMP SN		11391																														
POS		TRIP		DEPTH		CTD CONVERTED MONITOR VALUES										MAX. DEPTH = m																
						<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input type="checkbox"/> CHAM <input checked="" type="checkbox"/> TRANSMISSOMETER <input type="checkbox"/> Cleaned air bleed valve																										
						SAMPLE BOTTLE DATA										SAMPLE BOTTLE NUMBER																
						PRESSURE										SALINITY		SAL		NUTR		CHL		HPLC		Other						
1																																
2																																
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX209		141003	
CON					
SC					
CAST					
#					
LATITUDE	DEG	MIN	DEG	MIN	LONGITUDE
190 58 45.38 N	16 00 50.2 W	14	JUN 98	1021	
TIME	JD	TIME	DRY BULB	WET BULB	WIND DIRN.
190 58 45.38 N	16 00 50.2 W	14	1021	1021	1021
TYPE & SN	SB911+	DATA ON	START DOWN	AT DEPTH	AT SURFACE
PRESS SN	50403	p5040			
TEMP SN	t1390				
COND SN	c501				
TEMP SN	t1391				
CTD					
TIME	JD	TIME	DRY BULB	WET BULB	WIND DIRN.
190 58 45.38 N	16 00 50.2 W	14	1021	1021	1021
TYPE & SN	SB911+	DATA ON	START DOWN	AT DEPTH	AT SURFACE
PRESS SN	50403	p5040			
TEMP SN	t1390				
COND SN	c501				
TEMP SN	t1391				
CTD					
TIME	JD	TIME	DRY BULB	WET BULB	WIND DIRN.
190 58 45.38 N	16 00 50.2 W	14	1021	1021	1021
TYPE & SN	SB911+	DATA ON	START DOWN	AT DEPTH	AT SURFACE
PRESS SN	50403	p5040			
TEMP SN	t1390				
COND SN	c501				
TEMP SN	t1391				
CTD					
TIME	JD	TIME	DRY BULB	WET BULB	WIND DIRN.
190 58 45.38 N	16 00 50.2 W	14	1021	1021	1021
TYPE & SN	SB911+	DATA ON	START DOWN	AT DEPTH	AT SURFACE
PRESS SN	50403	p5040			
TEMP SN	t1390				
COND SN	c501				
TEMP SN	t1391				
CTD					
TIME	JD	TIME	DRY BULB	WET BULB	WIND DIRN.
190 58 45.38 N	16 00 50.2 W	14	1021	1021	1021
TYPE & SN	SB911+	DATA ON	START DOWN	AT DEPTH	AT SURFACE
PRESS SN	50403	p5040			
TEMP SN	t1390				
COND SN	c501				
TEMP SN	t1391				
CTD					
TIME	JD	TIME	DRY BULB	WET BULB	WIND DIRN.
190 58 45.38 N	16 00 50.2 W	14	1021	1021	1021
TYPE & SN	SB911+	DATA ON	START DOWN	AT DEPTH	AT SURFACE
PRESS SN	50403	p5040			
TEMP SN	t1390				
COND SN	c501				
TEMP SN	t1391				
CTD					
TIME	JD	TIME	DRY BULB	WET BULB	WIND DIRN.
190 58 45.38 N	16 00 50.2 W	14	1021	1021	1021
TYPE & SN	SB911+	DATA ON	START DOWN	AT DEPTH	AT SURFACE
PRESS SN	50403	p5040			
TEMP SN	t1390				
COND SN	c501				
TEMP SN	t1391				
CTD					
TIME	JD	TIME	DRY BULB	WET BULB	WIND DIRN.
190 58 45.38 N	16 00 50.2 W	14	1021	1021	1021
TYPE & SN	SB911+	DATA ON	START DOWN	AT DEPTH	AT SURFACE
PRESS SN	50403	p5040			
TEMP SN	t1390				
COND SN	c501				
TEMP SN	t1391				
CTD					
TIME	JD	TIME	DRY BULB	WET BULB	WIND DIRN.
190 58 45.38 N	16 00 50.2 W	14	1021	1021	1021
TYPE & SN	SB911+	DATA ON	START DOWN	AT DEPTH	AT SURFACE
PRESS SN	50403	p5040			
TEMP SN	t1390				
COND SN	c501				
TEMP SN	t1391				
CTD					
TIME	JD	TIME	DRY BULB	WET BULB	WIND DIRN.
190 58 45.38 N	16 00 50.2 W	14	1021	1021	1021
TYPE & SN	SB911+	DATA ON	START DOWN	AT DEPTH	AT SURFACE
PRESS SN	50403	p5040			
TEMP SN	t1390				
COND SN	c501				
TEMP SN	t1391				
CTD					
TIME	JD	TIME	DRY BULB	WET BULB	WIND DIRN.
190 58 45.38 N	16 00 50.2 W	14	1021	1021	1021
TYPE & SN	SB911+	DATA ON	START DOWN	AT DEPTH	AT SURFACE
PRESS SN	50403	p5040			

[illegible]

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX209		N1103	
CON	SC	LATITUDE		LONGITUDE	
CAST	#	DEG	MIN	DEG	MIN
		19	58	15	00
		8	1	W	1
		DATE JD=		TIME (GMT)	
		DAY	MO	YR	HR
		15	6	98	1200
		WET BULB		DRY BULB	
		(°C)		(°C)	
		WIND DIRN.		WIND D SP	
		(deg)		(m/s)	
		CLOUD (amt)		WEATHER	
		BOTTO M DEPT		H	
		STA. NAME/ID			
CTD		TIMES		JD/TIME	
		DATA ON		Tape/Diskette ID	
		START DOWN		File Name/Header	
		AT DEPTH			
		AT SURFACE			
		MAX. DEPTH =		m	
		REMARKS			
		CLEANED AIR BLEED VALVE			
		TRANSMISSOMETER			
		CHIAM			
		FLUOR			
		PAR			
		CTD CONVERTED MONITOR VALUES			
		SAMPLE BOTTLE DATA			
		SALINITY			
		SEC. TEMP			
		PRI. TEMP			
		PRESSURE			
		SALINITY			
		NUTR			
		CHL			
		HPLC			
		Other			
		SAMPLE BOTTLE NUMBER			
		1			
		2			
		3			
		4			
		5			
		6			
		7			
		8			
		9			
		10			
		11			
		12			

VESSEL		PROJECT & LEG				STATION DESIGNATION																	
Alpha Helix		HX209				N12.00																	
CON	SC	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)		WET BULB (°C)		WIND DIRN. (deg)		WIND SPO. D. (m/s)		WEATHER		BOTTO M DEPT H		STA. NAME/ID	
#	#	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	(m)							
1955036.91	N16867.54	W174	1308																				
CTD		TIMES		JD/TIME		DATA LOCATION										REMARKS							
TYPE & SN SB911+		DATA ON				Tape/Diskette ID File Name/Header																	
PRESS SN 50403		START DOWN																					
TEMP SN 11390		AT DEPTH																					
COND SN 6501		AT SURFACE																					
TEMP SN 1133																							
TEMP SN 11391																							
POS		TRIP		DEPTH		CTD CONVERTED MONITOR VALUES		X PAR		X FLUOR		X CHAM		X TRANSMISSOMETER		Cleared air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
1	48.9	20.5	20.1	11.0	2.5																		
2	20.5	20.1	11.0	2.5																			
3	20.1	11.0	2.5																				
4	11.0	2.5																					
5	2.5																						
6																							
7																							
8																							
9																							
10																							
11																							
12																							

MAX. DEPTH = m

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX209		NIE	
CON	LATITUDE		LONGITUDE		DATE JD=
SC	DEG	MIN	DEG	MIN	DA MO YR
CAST	5.18 N		118.20.8 W		JUN 98
#	DEG	MIN	DEG	MIN	HR MIN
	1995	22	118	20.8	1655
CTD	TIMES		JD/TIME		DATA LOCATION
TYPE & SN	SB911+		DATA ON		Tape/Diskette ID
PRESS SN	50405		START DOWN		File Name/Header
TEMP SN	11390		AT DEPTH		
COND SN	501		AT SURFACE		
TEMP SN	11391		AT SURFACE		
POS	TRIP	CTD CONVERTED MONITOR VALUES		CLEANED AIR BLEED VALVE	
DEPTH		PAR	FLUOR	CHLOR	TRANSMISSOMETER
1		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY
2		No Sample No Fluor.			
3		Steve didn't like the water here			
4					
5					
6					
7					
8					
9					
10					
11					
12					