

VESSEL		PROJECT & LEG		STATION DESIGNATION										
Alpha Helix		HX209		NIE12										
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	SEA STATE	VISIBILITY	WIND DIRN.	WIN D SP. D.	CLOUD (amt)	WEATHER	BOTTO M DEPT H	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	(m)				
2005822.84N	16822.37W	4 JUN 98	1723											
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	PAR	FLUOR	CHIAM	TRANSMISSOMETER	Cleaned air bleed valve									
POS TRIP DEPTH	CTD CONVERTED MONITOR VALUES													
	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA									
1 12					SAMPLE BOTTLE NUMBER									
2 12														
3 12														
4 12														
5 5														
6 5														
7 5														
8 5														
9														
10														
11														
12														

π_1, π_2

VESSEL Alpha Helix		PROJECT & LEG HX209		STATION DESIGNATION N16415											
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	SEA STATE PRESSURE	WIND DIRN. (deg)	WIND SP. D. (m/s)	CLOUD (amt)	WEATHER	BOTTO M DEPT H	STA. NAME/ID		
00251935.2	35.2	16703.2	515 JUN 98	1500								27			
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS							
TYPE & S# SB911+		DATA ON		Tape/Diskette iD		File Name/Header		Deck Prod							
PRESS S#		START DOWN													
TEMP SN		AT DEPTH													
COND SN		AT SURFACE													
TEMP SN		11391													
MAX. DEPTH =		m													
TRANSMISSOMETER		FLUOR		CHAM		CLEANED AIR BLEED VALVE									
PAR		X		X		X									
CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER											
POS	DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other				
1	10														
2	10														
3	10														
4	10														
5															
6															
7															
8															
9															
10															
11															
12															

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VESSEL Alpha Helix		PROJECT & LEG HX209		STATION DESIGNATION NIE 418									
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	SEA STATE	WIND DIRN. (deg)	WIND SPEED (m/s)	CLOUD (amt)	WEATHER	BOTTO M DEPT H	STA. NAME/D
2035935.27	N 16 703.2	W 151 532	15 JUN 98	1532								27	
CTD		TIMES		JD/TIME		DATA LOCATION							
TYPE & SN SB911+		DATA ON				Tape/Diskette ID File Name/Header							
PRESS SN 50405		START DOWN											
TEMP SN 11390		AT DEPTH											
COND SN 501		AT SURFACE											
TEMP SN 11391													
MAX. DEPTH =						m							
REMARKS		NIS Dean											
<div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input type="checkbox"/> CHAM <input type="checkbox"/> TRANSMISSOMETER <input type="checkbox"/> Cleaned air bleed valve </div> <div> SAMPLE BOTTLE DATA SALINITY SAL. NUTR. CHL. HPLC O₂ ne </div> </div>													
POS	TRIF	SAMPLE BOTTLE NUMBER											
DEPTH													
1	85	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY								
2	10												
3	15												
4	5												
5	5												
6	5												
7	5												
8													
9													
10													
11													
12													

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VESSEL	PROJECT & LEG	STATION DESIGNATION					
Alpha Helix	HX209	NIG X-13					
CON SC CAST #	LATITUDE DEG MIN DEG MIN	LONGITUDE MIN	DATE JD= DAY MO YR	TIME DRY BULB WET BULB PRESSURE	WIND DIRN.	CLOUD (amt)	BOTTO M DEPT H STA NAME>ID
#	DEG MIN	DEG MIN	JUN 8 7 04	(°C) (°C) (mb)	DIRN.	(m/s)	(m)
CDT	TIMES	JD/TIME	DATA LOCATION	REMARKS			
TYPE & SN SB911+	DATA ON	Tape/Diskette ID	File Name/Header				
PRESS SN p5040	START DOWN						
TEMP SN 11390	AT SURFACE						
COND SN c501	AT SURFACE						
TEMP SN 11391	AT SURFACE						
MAX. DEPTH = m							
POS TRIP DEPTH	CTD CONVERTED MONITOR VALUES	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				
1	X PAR X FLUOR X CHAM X TRANSMISSOMETER Cleaned air bleed valve	SALINITY	SALINITY	SAL NUTR CHL HPLO Other			
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

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header says 0

VESSEL Alpha Helix		PROJECT & LEG HX209		STATION DESIGNATION N16X12	
CON SC CAST					
#					
LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)
DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)
20 06 59	11 12 N	16 7 15	SW 15 JUN 98	17 45	
CTD	TIMES	JD/TIME	DATA LOCATION		
TYPE & SN	S3911+	DATA ON	Tape/Diskette ID File Name/Header		
PRESS SN	50403 P5040	START DOWN			
TEMP SN	11390	AT DEPTH			
COND SN	C501 1133	AT SURFACE			
TEMP SN	11391				
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
		Cleaned air bleed valve			
		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
1		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

VESSEL Alpha Helix			PROJECT & LEG HX209			STATION DESIGNATION <i>NEX-11</i>										
CON SC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB °C	PRESSURE (mb)	VELOCITY (deg)	WIN DIRN.	D SP (m/s)	CLD (amt) TYPE	BOTTO M DEPT H	STA. NAME/ID
	DEG MIN	SEC	DEG MIN	SEC	DAY MO YR	HR MIN	(°C)	(m)								
2075916.53N	16723.87W	15JUN98	1828													
CTD		TIMES	JT/TIME	DATA LOCATION			REMARKS									
TYPE & SN SB911+ <i>Soyco p5040</i>		DATA ON _____		Tape/Diskette ID File Name/Header												
PRESS SN	START DOWN _____															
TEMP SN	AT DEPTH _____															
COND SN	c501 c1123		AT SURFACE													
TEMP SN	t1391															
POS TRIP DEPTH		MAX. DEPTH = m														
		Cleaned air bleed valve														
		SAMPLE BOTTLE NUMBER														
		SAMPLE DATA														
		SALINITY														
		SAL NUTR CHL HPLO Other														
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

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VESSEL		PROJECT & LEG		STATION DESIGNATION									
Alpha Helix		HX209		N16x6									
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	VISIBILITY (deg)	WIND DIRN. (m/s)	CLOUD (amt)	WEATHER	BOTTO M DEPT H	STA. NAME/ID
	16 7 38.3 N	16 7 38.3 W	15 JUN 98	2043									
CTD	TIMES	JT/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	c501 d 1133 11391												
POS	TRIP	DEPTH	MAX. DEPTH = m										
			Cleaned air bleed valve										
			SAMPLE BOTTLE NUMBER										
			SALINITY										
			SALINITY										
			SEC. TEMP.										
			PRI. TEMP.										
			PRESSURE										
			No Samples										
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

VESSEL Alpha Helix							PROJECT & LEG HX209						STATION DESIGNATION N1644							
CON SC CAST	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR		TIME (GMT) HR MIN		DRY BULB (°C)	WET BULB (°C)	WIND DIRN.	CLOUD (amt)	BOTTO M DEPT H	STA. NAME/ID								
211	58-7.9 N	167-44.4 W	15	JUN	98	21	37													
#	DEG MIN	DEG MIN																		
			TIMES		JD/TIME		DATA LOCATION		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		t1391																	
MAX. DEPTH = m																				
CTD CONVERTED MONITOR VALUES																				
POS	TRIP DEPTH	<input checked="" type="checkbox"/> PAR		<input checked="" type="checkbox"/> FLUOR	<input type="checkbox"/> CHAM	<input checked="" type="checkbox"/> TRANSMISSOMETER	Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER									
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY			SAL.	NUTR.	CHL.	HPLC Other								
1	38								34											
2									31											
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

VESSEL Alpha Helix		PROJECT & LEG HX209		STATION DESIGNATION N16x2									
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)	CLOUD (amt)	WEATHER	BOTTO M DEPT H	STA. NAME/ID	
21	25 53.20N	167 49.62W	15 JUN 98	22 11							42		
CTD		TIMES		JD/TIME		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		t1133											
TEMP SN		11391											
MAX. DEPTH =		m											
CTD CONVERTED MONITOR VALUES		X PAR		X FLUOR		X CHAM		X TRANSMISSOMETER		Cleaned air bleed valve			
POS	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAMPLE BOTTLE NUMBER			
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

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VESSEL Alpha Helix		PROJECT & LEG HX209		STATION DESIGNATION NIC 15											
CON SC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB (°C)	WIND DIRN. (deg)	WIND SPEED (m/s)	CLOUD (amt)	WEATHER	BOTTO M DEPT H	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR							
214593	27	01	167	13.4	20	16	06	11							
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		11391		MAX. DEPTH = m											
REMARKS		Deck Prod													
SAMPLE BOTTLE NUMBER															
SAMPLE DATA															
SALINITY															
SAL. NUTR. CHL. HPLC Other															
PRESSURE															
PRI. TEMP.															
SEC. TEMP.															
SALINITY															
SAL. NUTR. CHL. HPLC Other															
CTD CONVERTED MONITOR VALUES															
POS	TRIP DEPTH														
1	20														
2	20														
3	20														
4	20														
5	20														
6	15														
7	10														
8	5														
9	5														
10	5														
11	5														
12	5														

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MAX. DEPTH = 3

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VESSEL	PROJECT & LEG	STATION DESIGNATION
Alpha Helix	HX209	N C X I P
CON SC CAST #	LATITUDE DEG MIN DEG MIN LONGITUDE MIN DAY MO YR DATE JD=	TIME (GMT) HR MIN WET BULB (°C)
		DRY BULB (°C)
		WIND DIRN. (deg)
		WIND SP. (m/s)
		CLOUD TYPE (amt)
		WEATHER H
		BOTTO M DEPT H (m)
		STA. NAME/D
CTD	TIMES JD/TIME	REMARKS
TYPE & SN SB911+ SC465 P5040	DATA ON _____	Tape/Diskette ID File Name/Header
PRESS SN	START DOWN _____	
TEMP SN	AT DEPTH _____	
CONC SN	c501 AT SURFACE _____	
TEMP SN	t1391	MAX. DEPTH = m
POS TRIP DEPTH	CTD CONVERTED MONITOR VALUES	SAMPLE BOTTLE NUMBER
	X PAR X FILLOR ChAM TRANSMISSOMETER Cleaned air bl: ed valve	
	PRESSURE PRI. TEMP. SEC. TEMP.	SALINITY
1 32		SAL. NUTR. CHL. HPLO Other
2 20		738 ✓
3 10		737
4 0		735 ✓
5		
6		
7		
8		
9		
10		
11		
12		

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and the results are shown in Table 1. The results show that the model is able to predict the results of the experiment with a high degree of accuracy.

VESSEL		PROJECT & LEG		STATION DESIGNATION								
Alpha Helix		HX209		N1C x 6								
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	VISIBILITY	WIND DIRN.	CLOUD (amt)	WEATHER	BOTTO M DEPT H	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(deg)	(m/s)	(m)			
200590570N	1675024W	7 JUN 98	0359								40	
CTD		TIMES	D/TIME	REMARKS								
TYPE & SN SB911+ SC403 P5040		DATA ON	Tape/Diskette ID	File Name/Header								
PRESS SN	START DOWN											
TEMP SN	AT DEPTH											
COND SN	c501											
TEMP SN	t133											
TEMP SN	t1391											
MAX. DEPTH =		m										
POS TRIP DEPTH		SAMPLE BOTTLE NUMBER										
		BOTTLE DATA										
		CTD CONVERTED MONITOR VALUES										
		CLEANED AIR BLEED VALVE										
		TRANSMISSOMETER										
		FLUOR CHAM										
		PAR										
		PRESSURE										
		PRII TEMP.										
		SEC. TEMP.										
		SALINITY										
		SAL. NUTRI CHL. HPLC Other										
1	37	749										
2	30	749										
3	20	749										
4	10	746										
5	0	746										
6												
7												
8												
9												
10												
11												
12												

VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX209		NICKY	
CON		LATITUDE		LONGITUDE	
SC		DEG	MIN	DEG	MIN
CST		16	54	21	54
#		22	59	01	05
		DATE JD=		TIME (GMT)	
		DAY	MO	YR	HR
		17	06	98	04
		WET BULB		WIND DIR	
		16.7		167	
		5.4		5.4	
		2W		2W	
		17		17	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
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		05		05	
		16		16	
		54		54	
		21		21	
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		16		16	
		54		54	
		21		21	
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		16		16	
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		16		16	
		54		54	
		21		21	
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		16		16	
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		21		21	
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		16		16	
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		21		21	
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		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
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		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
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		16		16	
		54		54	
		21		21	
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		16		16	
		54		54	
		21		21	
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		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54		54	
		01		01	
		05		05	
		16		16	
		54		54	
		21		21	
		54			

VESSEL Alpha Helix		PROJECT & LEG HX209		STATION DESIGNATION NIC x2																							
CON SC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)		WET BULB (°C)		PRESSURE (mb)		WIND DIRN. (deg)		WIND SPEED (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	mb	(deg)	(m/s)										
2215856.40N		168	00.62W	17	JUN	98	05	37																			
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS																			
TYPE & SN SB911+		DATA ON		Tape/Diskette ID		File Name/Header																					
PRESS SN 50408		START DOWN																									
TEMP SN t1390		AT DEPTH																									
COND SN c501		AT SURFACE																									
TEMP SN t1391		AT SURFACE																									
POS		TRIP		DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY	
1		26		30		20		10		0																	
2		30		20		10		0																			
3		20		10		0																					
4		10		0																							
5		0																									
6																											
7																											
8																											
9																											
10																											
11																											
12																											

MAX. DEPTH = m

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VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX209		NICS	
CON				WIND DIR.	WIND SPO. D.
SC				WET BULB	WIND SPO. D.
CAST				DRY BULB	WIND SPO. D.
#				TIME (GMT)	WIND SPO. D.
226				DATE JD=	WIND SPO. D.
127				LONGITUDE	WIND SPO. D.
128				LATITUDE	WIND SPO. D.
129				DEG MIN	WIND SPO. D.
130				DEG MIN	WIND SPO. D.
131				DEG MIN	WIND SPO. D.
132				DEG MIN	WIND SPO. D.
133				DEG MIN	WIND SPO. D.
134				DEG MIN	WIND SPO. D.
135				DEG MIN	WIND SPO. D.
136				DEG MIN	WIND SPO. D.
137				DEG MIN	WIND SPO. D.
138				DEG MIN	WIND SPO. D.
139				DEG MIN	WIND SPO. D.
140				DEG MIN	WIND SPO. D.
141				DEG MIN	WIND SPO. D.
142				DEG MIN	WIND SPO. D.
143				DEG MIN	WIND SPO. D.
144				DEG MIN	WIND SPO. D.
145				DEG MIN	WIND SPO. D.
146				DEG MIN	WIND SPO. D.
147				DEG MIN	WIND SPO. D.
148				DEG MIN	WIND SPO. D.
149				DEG MIN	WIND SPO. D.
150				DEG MIN	WIND SPO. D.
151				DEG MIN	WIND SPO. D.
152				DEG MIN	WIND SPO. D.
153				DEG MIN	WIND SPO. D.
154				DEG MIN	WIND SPO. D.
155				DEG MIN	WIND SPO. D.
156				DEG MIN	WIND SPO. D.
157				DEG MIN	WIND SPO. D.
158				DEG MIN	WIND SPO. D.
159				DEG MIN	WIND SPO. D.
160				DEG MIN	WIND SPO. D.
161				DEG MIN	WIND SPO. D.
162				DEG MIN	WIND SPO. D.
163				DEG MIN	WIND SPO. D.
164				DEG MIN	WIND SPO. D.
165				DEG MIN	WIND SPO. D.
166				DEG MIN	WIND SPO. D.
167				DEG MIN	WIND SPO. D.
168				DEG MIN	WIND SPO. D.
169				DEG MIN	WIND SPO. D.
170				DEG MIN	WIND SPO. D.
171				DEG MIN	WIND SPO. D.
172				DEG MIN	WIND SPO. D.
173				DEG MIN	WIND SPO. D.
174				DEG MIN	WIND SPO. D.
175				DEG MIN	WIND SPO. D.
176				DEG MIN	WIND SPO. D.
177				DEG MIN	WIND SPO. D.
178				DEG MIN	WIND SPO. D.
179				DEG MIN	WIND SPO. D.
180				DEG MIN	WIND SPO. D.
181				DEG MIN	WIND SPO. D.
182				DEG MIN	WIND SPO. D.
183				DEG MIN	WIND SPO. D.
184				DEG MIN	WIND SPO. D.
185				DEG MIN	WIND SPO. D.
186				DEG MIN	WIND SPO. D.
187				DEG MIN	WIND SPO. D.
188				DEG MIN	WIND SPO. D.
189				DEG MIN	WIND SPO. D.
190				DEG MIN	WIND SPO. D.
191				DEG MIN	WIND SPO. D.
192				DEG MIN	WIND SPO. D.
193				DEG MIN	WIND SPO. D.
194				DEG MIN	WIND SPO. D.
195				DEG MIN	WIND SPO. D.
196				DEG MIN	WIND SPO. D.
197				DEG MIN	WIND SPO. D.
198				DEG MIN	WIND SPO. D.
199				DEG MIN	WIND SPO. D.
200				DEG MIN	WIND SPO. D.
201				DEG MIN	WIND SPO. D.

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VESSEL Alpha Helix		PROJECT & LEG HX209		STATION DESIGNATION N1C11																			
CON SC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		WET BULB		WIND DIRN.		WIND SPEED		WEATHER		BOTTO M DEPT		STA NAME/ID	
		DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(°C)	(deg)	(m/s)	(m)	(m)						
228	228	41	11	68	31	5	21	17	11	11													
CTD		TIMES		JD/TIME		DATA LOCATION																	
TYPE & SN SB911+		DATA ON				Tape/Diskette ID		File Name/Header										REMARKS					
PRESS SN		START DOWN																					
TEMP SN		AT DEPTH																					
COND SN		AT SURFACE																					
TEMP SN		AT SURFACE																					
MAX. DEPTH =																							
CTD CONVERTED MONITOR VALUES		X PAR		X FLUOR		X CHAM		X TRANSMISSOMETER		Cleared air bleed valve		SAMPLE BOTTLE NUMBER											
POS		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.		CHL.		HPLC		Other			
DEPTH		1		58																			
		2																					
		3																					
		4																					
		5																					
		6																					
		7																					
		8																					
		9																					
		10																					
		11																					
		12																					

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VESSEL		PROJECT & LEG						STATION DESIGNATION							
Alpha Helix		HX209						NIC13							
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD=		TIME (GMT) HR MIN		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	WIND DIRN. (deg)	WIN D SPD (m/s)	CLOUD (amt)	WEATHER	BOTTO M DEPT H	STA. NAME/ID
229	21.32 N	168.39.44 W	DAY MO YR	JUN 98	11	16									
REMARKS															
DATA LOCATION															
Tape/Diskette ID File Name/Header															
MAX. DEPTH = m															
CTD MONITOR VALUES															
POS	TRIP	FLUOR		CHAM		CLEANED AIR BLEED VALVE		SAMPLE BOTTLE NUMBER							
		X PAR		X FLUOR		X CHAM		X TRANSMISSOMETER		SAMPLE DATA					
DEPTH		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL. NUTR. CHL. HPLC Other					
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

[illegible]

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3 2 6 6 7

VESSEL Alpha Helix		PROJECT & LEG HX209		STATION DESIGNATION 282													
CON SC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	WIND DIRN. (deg)	WIND SPEED (m/s)	WIND D SPO (m/s)	WEATHER	BOTTO M DEPT H	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN								
2335	74	59	N	169	47	3	W	7	JUN	98	15	55					
<div>CTD</div> <div> <div>TINIES</div> <div>JD/TIME</div> </div> <div> <div>TYPE & SN SB911+</div> <div>DATA ON</div> </div> <div> <div>PRESS SN</div> <div>50403</div> <div>START DOWN</div> </div> <div> <div>TEMP SN</div> <div>11390</div> <div>AT DEPTH</div> </div> <div> <div>COND SN</div> <div>501</div> <div>AT SURFACE</div> </div> <div> <div>TEMP SN</div> <div>11323</div> <div></div> </div> <div> <div>TEMP SN</div> <div>11391</div> <div></div> </div> <div> <div>MAX. DEPTH =</div> <div>m</div> </div>																	
<div>DATA LOCATION</div> <div>Tape/Diskette ID</div> <div>File Name/Header</div>																	
<div>REMARKS</div>																	
<div>CTD CONVERTED MONITOR VALUES</div> <div> <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 </div>																	
POS	TRIP	DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.	NUTR.	CHL.	HPLC	Other
1	62													787			
2	50													786			
3	40													785			
4	30													784			
5	20													783			
6	10													782			
7	0													781			✓
8																	
9																	
10																	
11																	
12																	

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9 7 8 5 10 11 12

VESSEL Alpha Helix		PROJECT & LEG HX209		STATION DESIGNATION N15									
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)	WIN D SPO D. C	WEATHER	BOTTO M DEPT H	STA. NAME/ID	
2365	6.13N	169.51W	17 JUN 98	2034							49		
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS					
TYPE & SN SB911+		DATA ON		Tape/Diskette ID		File Name/Header							
PRESS SN 50405		START DOWN											
TEMP SN 11390		AT DEPTH											
COND SN c501		AT SURFACE											
TEMP SN 11391													
MAX. DEPTH =		m											
CTD CONVERTED MONITOR VALUES		X PAR		X FLUOR		X CHAM		X TRANSMISSOMETER		Cleared air bleed valve			
POS	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL.		NUTR.	
1	46											806	
2	30											805	
3	20											804	
4	10											803	
5	0											802	
6													
7													
8													
9													
10													
11													
12													

10
11
12
1
2
3
4

0
2
2
1
1
8
1

VESSEL Alpha Helix		PROJECT & LEG HX209		STATION DESIGNATION 58C11												
CON SC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	SEA STATE	WIND DIRN. (deg)	WIND SPEED (m/s)	WIND D. SP. (m/s)	WEATHER	BOTTO M DEPT H	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN							
2375	30.22	N	164	11.30	W	9	JUN	98	16	35						
CTD DATA LOCATION TYPE & SN SB911+ DATA ON _____ PRESS SN 50405 START DOWN _____ TEMP SN 11390 AT DEPTH _____ COND SN 3501 AT SURFACE _____ TEMP SN 41123 MAX. DEPTH = _____ m																
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																
POS	TRIP DEPTH	SAMPLE BOTTLE DATA										SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLO	Other					
1	90															
2	75															
3	50															
4	40															
5	30															
6	20															
7	10															
8	0															NIS
9	0															
10	0															
11	0															
12																

VESSEL Alpha Helix		PROJECT & LEG HX209		STATION DESIGNATION 53C10																							
CON SC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)		WET BULB (°C)		PRESSURE (mb)		WIND DIRN. (deg)		WIND SPEED (m/s)		CLOUD (amt)		WEATHER		BOTTO M DEPT H (m)		STA. NAME ID	
		DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	°C	°C	mb	deg	m/s	amt											
238	5530.37N	164	19.94W	19	JUN	1985	16	55																			
CTD		TIMES		JD/TIME		DATA LOCATION										REMARKS											
TYPE & SN SB911+		DATA ON				Type/Diskette ID File Name/Header										Deck Prod											
PRESS SN 50405		START DOWN																									
TEMP SN 11390		AT DEPTH																									
COND SN 501		AT SURFACE																									
TEMP SN 11391																											
MAX. DEPTH =		m																									
POS TRIP DEPTH		CTD CONVERTED MONITOR VALUES		CLEANED AIR BLEED VALVE		SAMPLE BOTTLE DATA										SAMPLE BOTTLE NUMBER											
		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.		CHL		HPLO		Other							
1	42																										
2	42																										
3	42																										
4	42																										
5	11																										
6	11																										
7	11																										
8	11																										
9																											
10																											
11																											
12																											

40 42

VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX209		58C10	
CON					
SC					
CAST					
#					
DEG	MIN	DEG	MIN	DATE JD=	
127.75	N	164.09	46	W19	JUN 98
1739		1739			
CTD		TIMES	JD/TIME	DATA LOCATION	
TYPE & SN	SB911+	DATA ON	Te	a/Diskette ID	File Name/Header
PRESS SN	50403	START DOWN			
TEMP SN	11390	AT DEPTH			
COND SN	6501	AT SURFACE			
TEMP SN	11391				
POS	TRIP	CTD CONVERTED MONITOR VALUES			
DEPTH		SAMPLE BOTTLE DATA			
1		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX209		3303	
CON	SC	DATE JD=		WIND D SPO	
CST	#	LONGITUDE		CLOUD (amt)	
DEG	MIN	DEG	MIN	WIND DIRN.	WEATHER
24	55	16	4	(deg)	
22	92	50	19	(m/s)	
N	W	19	96	(deg)	
LATITUDE		LONGITUDE		WIND D SPO	
DEG	MIN	DEG	MIN	WIND DIRN.	WEATHER
24	55	16	4	(deg)	
22	92	50	19	(m/s)	
N	W	19	96	(deg)	
TIME		DATE JD=		WIND D SPO	
DEG	MIN	DEG	MIN	WIND DIRN.	WEATHER
24	55	16	4	(deg)	
22	92	50	19	(m/s)	
N	W	19	96	(deg)	
TIME		DATE JD=		WIND D SPO	
DEG	MIN	DEG	MIN	WIND DIRN.	WEATHER
24	55	16	4	(deg)	
22	92	50	19	(m/s)	
N	W	19	96	(deg)	
TIME		DATE JD=		WIND D SPO	
DEG	MIN	DEG	MIN	WIND DIRN.	WEATHER
24	55	16	4	(deg)	
22	92	50	19	(m/s)	
N	W	19	96	(deg)	
TIME		DATE JD=		WIND D SPO	
DEG	MIN	DEG	MIN	WIND DIRN.	WEATHER
24	55	16	4	(deg)	
22	92	50	19	(m/s)	
N	W	19	96	(deg)	
TIME		DATE JD=		WIND D SPO	
DEG	MIN	DEG	MIN	WIND DIRN.	WEATHER
24	55	16	4	(deg)	
22	92	50	19	(m/s)	
N	W	19	96	(deg)	
TIME		DATE JD=		WIND D SPO	
DEG	MIN	DEG	MIN	WIND DIRN.	WEATHER
24	55	16	4	(deg)	
22	92	50	19	(m/s)	
N	W	19	96	(deg)	
TIME		DATE JD=		WIND D SPO	
DEG	MIN	DEG	MIN	WIND DIRN.	WEATHER
24	55	16	4	(deg)	
22	92	50	19	(m/s)	
N	W	19	96	(deg)	
TIME		DATE JD=		WIND D SPO	
DEG	MIN	DEG	MIN	WIND DIRN.	WEATHER
24	55	16	4	(deg)	
22	92	50	19	(m/s)	
N	W	19	96	(deg)	
TIME		DATE JD=		WIND D SPO	
DEG	MIN	DEG	MIN	WIND DIRN.	WEATHER
24	55	16	4	(deg)	
22	92	50	19	(m/s)	
N	W	19	96	(deg)	
TIME		DATE JD=		WIND D SPO	
DEG	MIN	DEG	MIN	WIND DIRN.	WEATHER
24	55	16	4	(deg)	
22	92	50	19	(m/s)	
N	W	19	96	(deg)	
TIME		DATE JD=		WIND D SPO	
DEG	MIN	DEG	MIN	WIND DIRN.	WEATHER
24	55	16	4	(deg)	
22	92	50	19	(m/s)	
N	W	19	96	(deg)	
TIME		DATE JD=		WIND D SPO	
DEG	MIN	DEG	MIN	WIND DIRN.	WEATHER
24	55	16	4	(deg)	
22	92	50	19	(m/s)	
N	W	19	96	(deg)	
TIME		DATE JD=		WIND D SPO	
DEG	MIN	DEG	MIN	WIND DIRN.	WEATHER
24	55	16	4	(deg)	
22	92	50	19	(m/s)	
N	W	19	96	(deg)	
TIME		DATE JD=		WIND D SPO	
DEG	MIN	DEG	MIN	WIND DIRN.	WEATHER
24	55	16	4	(deg)	
22	92	50	19	(m/s)	
N	W	19			

VESSEL	PROJECT & LEG	STATION DESIGNATION												
Alpha Helix	HX209	SBC6												
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD=	TIME (GMT)	DRY BULB (°C)	'WET' BULB (°C)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIN D SPED (m/s)	CLOUD (amt)	TYPF WEATHER	BOTTO M DEPT H	STA. NAME/ID
#	MIN	MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)	(amt)	* * *	(m)	
2435	1809 N	1640 W	9 JUN 98	009	76	
CTD	TIMES		JT/TIME	DATA LOCATION										
TYPE & SN S'B911+				File Name/Header										
PRESS SN P5040														
TEMP SN 11390														
COND SN C501														
TEMP SN 11391														
MAX. DEPTH = m				Cleaned air bleed valve										
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES												
		X PAR	X FLUOR	ChlAM	X TRANSMISSOMETER	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER							
1	71					SALINITY	NUTR.	CHL.	HPLC	Other				
2	50					SALINITY								
3	40					SALINITY								
4	30					SALINITY								
5	20					SALINITY								
6	10					SALINITY								
7	0					SALINITY								
8						SALINITY								
9						SALINITY								
10						SALINITY								
11						SALINITY								
12						SALINITY								

VESSEL Alpha Helix		PROJECT & LEG HX209		STATION DESIGNATION 38CH											
CON SC CAST #	LATIT: IDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET EULB (°C)	WIND DIRN (deg)	WIND SPEED (m/s)	WEATHER (amt)	BOTTO M DEPT H	STA. NAME/ID				
24	55 13.07N	164 57.25W	19 JUN 98	2116											
CTD		TIMES		JD/TIME		DATA LOCATION									
TYPE & SN		SEG11+		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		s1133													
TEMP SN		11391													
MAX. DEPTH =		m													
Cleansed air bleed valve															
CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE NUMBER													
POS	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL.		NUTR.	CHL.	HPLQ	Other
1	51									856					
2	40									855					
3	30									854					
4	20									853					
5	10									852					
6	0									851					
7															
8															
9															
10															
11															
12															

VESSEL		PROJECT & LEG		STATION DESIGNATION								
Alpha Helix		HX209		SBC3								
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	WIND DIRN. (deg)	WIN D SP D. (m/s)	CLOUD (amt)	WEATHER	BOTTO M DEPT H	STA. NAME/ID
2465518-76N	16355.35	16355.35	W 19 JUN 98	2150							43	
CTD	TIMES	JD/TIME	REMARKS									
TYPE & SN S9911+	DATA ON	Tape/Diskette ID File Name/Header										
PRESS SN	START DOWN											
TEMP SN	AT SURFACE											
COND SN	AT SURFACE											
TEMP SN	AT SURFACE											
MAX. DEPTH =		m										
POS	TRIP DEPTH	SAMPLE BOTTLE NUMBER										
1	40	CLEANED AIR BLEED VALVE										
2	30	SAMPLE BOTTLE DATA										
3	20	SALINITY										
4	10	SEC. TEMP.										
5	0	PRI. TEMP.										
6		PRESSURE										
7		SALINITY										
8		SEC. TEMP.										
9		PRI. TEMP.										
10		PRESSURE										
11		SALINITY										
12		SEC. TEMP.										

VESSEL Alpha Helix		PROJECT & LEG HX209				STATION DESIGNATION 58C2									
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	WIND DIRN. (deg)	WIND SPEED (m/s)	WEATHER TYPE	BOTTO M DEPT H	STA. NAME/ID				
24	16 58 26 N	116 35 32 W	19 JUN 98	2223											
<div>CTD</div> <div> <div>TYPE & SN SR9114</div> <div>50403</div> <div>START DOWN</div> <div>20340</div> <div>TEMP SN</div> <div>11390</div> <div>AT DEPTH</div> <div>COND SN</div> <div>6301</div> <div>AT SURFACE</div> <div>TEMP SN</div> <div>41323</div> <div>1391</div> </div> <div> <div>DATA ON</div> <div>START DOWN</div> <div>AT DEPTH</div> <div>AT SURFACE</div> </div> <div> <div>TIME</div> <div>JD/TIME</div> </div> <div> <div>LOCATION</div> <div>Tape/Diskette ID</div> <div>File Name/Header</div> </div> <div> <div>REMARKS</div> </div>															
<div>MAX. DEPTH =</div> <div>m</div>															
<div> <div> <div>CTD CONVERTED MONITOR VALUES</div> <div> <div> <div>POS</div> <div>TRIP</div> <div>DEPTH</div> </div> <div> <div>1</div> <div>29</div> <div></div> </div> <div> <div>2</div> <div>20</div> <div></div> </div> <div> <div>3</div> <div>10</div> <div></div> </div> <div> <div>4</div> <div>0</div> <div></div> </div> <div> <div>5</div> <div></div> <div></div> </div> <div> <div>6</div> <div></div> <div></div> </div> <div> <div>7</div> <div></div> <div></div> </div> <div> <div>8</div> <div></div> <div></div> </div> <div> <div>9</div> <div></div> <div></div> </div> <div> <div>10</div> <div></div> <div></div> </div> <div> <div>11</div> <div></div> <div></div> </div> <div> <div>12</div> <div></div> <div></div> </div> </div> <div> <div> <div> <div>PRESSURE</div> <div>PRI. TEMP.</div> <div>SEC. TEMP.</div> <div>SALINITY</div> </div> <div> <div> <div>1</div> <div>29</div> <div></div> </div> <div> <div>2</div> <div>20</div> <div></div> </div> <div> <div>3</div> <div>10</div> <div></div> </div> <div> <div>4</div> <div>0</div> <div></div> </div> <div> <div>5</div> <div></div> <div></div> </div> <div> <div>6</div> <div></div> <div></div> </div> <div> <div>7</div> <div></div> <div></div> </div> <div> <div>8</div> <div></div> <div></div> </div> <div> <div>9</div> <div></div> <div></div> </div> <div> <div>10</div> <div></div> <div></div> </div> <div> <div>11</div> <div></div> <div></div> </div> <div> <div>12</div> <div></div> <div></div> </div> </div> </div> </div> </div></div>															

VESSEL						PROJECT & LEG								STATION DESIGNATION																	
Alpha Helix						HX2C9								SBC-1																	
CON SC CAST #		LATITUDE				LONGITUDE				DATE JD:				TIME (GMT)		DRY BULB (°C)		WET BULB (°C)		SEA STATE		VISIBILITY		WIND DIRN.		WIN D SPD.		BOITO M C EPT		STA. NAME/ID	
		DEG	MIN	SEC	N	DEG	MIN	SEC	E	DAY	MO	YR	HR	MIN	SEC	BULB	(°C)	BULB	(°C)	THRESHOLD	MILES	KNOTS	DIRN.	(deg)	(m/s)	CLOUD (amt)	WEATHER	BOITO M C EPT	STA. NAME/ID		
		CTD				TIMES				JD/TIME				DATA LOCATION										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																													
POS TRIP DEPTH										CTD CONVERTED MC/NITOR VALUES				SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER													
		PRESSURE				PRI. TEMP.				SEC. TEMP.				SALINITY				SAL. NUTR. CHL. HPLO Other													
1		24																808													
2		10																867													
3		10																													
4		10																													
5		10																													
6		10																866													
7		0																													
8		0																													
9		0																													
10		0																													
11																															
12																															

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VESSEL		PROJECT & LEG		STATION DESIGNATION							
Alpha Helix		HX209		SBCI							
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	WIND DIRN. (deg)	CLOUD (m/s)	WEATHER	BOTTO M DEPT H	STA. NAME/D
	2495105.80N	1635154720E	JUN 98	1526							
CTD	TIMES	JD/TIME	DATA LOCATION				REMARKS				
TYPE & SN SB911+	DATA ON		Tape/Diskette ID File Name/Header								
PRESS SN p5040	START DOWN										
TEMP SN 11390	AT DEPTH										
COND SN c501	AT SURFACE										
TEMP SN 11391											
POS TRIP	DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER					
1		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY		SAL.	NUTR.	CHL.	HPLC Other
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX209		5864	
CON					
SC					
CAS					
#					
LATITUDE	LONGITUDE	DATE JD=		TIME (GMT)	
DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(m/s)
13.08N	163.57W	4 JUN 98	1719		
CTD	TIMES	JD/TIME		DATA LOCATION	
TYPE & SN SB911+	DATA CN			Tape/Diskette ID File Name/Header	
PRESS SN p5040	START DOWN				
TEMP SN 11390	AT DEPTH				
COND SN c501	AT SURFACE				
TEMP SN d1133					
TEMP SN 11391					
POS TRIP DEPTH	CTD CONVERTED MONITOR VALUES	<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input type="checkbox"/> CHLAM	<input checked="" type="checkbox"/> TRANSMISSOMETER
		<input type="checkbox"/> Cleaned air bleed valve			
		SAMPLE BOTTLE DATA			
		SAMPLE	BOTTLE DATA	SAMPLE BOTTLE NUMBER	
1	35	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY
2	35				
3	35				
4	35				
5	35				
6	35				
7	35				
8	35				
9	35				
10	35				
11	35				

VESSEL Alpha Helix		PROJECT & LEG HX209		STATION DESIGNATION 485																			
CON SC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB (°C)		WIND DIRN. (deg)		WIND SPEED (m/s)		CLOUD (amt)		WEATHER		BOTTO M DEPT H		STA. NAME/ID	
		DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(deg)	(m/s)									
25265	115.55N	113.59	55W	20	JUN	98	17	57												56			
CTD		TIMES		JD/TIME		DATA LOCATION										REMARKS							
TYPE & SN SB911+		DATA ON				Tape/Diskette ID		File Name/Header															
PRESS SN		5040		START DOWN																			
TEMP SN		11390		AT DEPTH																			
COND SN		c501		AT SURFACE																			
TEMP SN		11391																					
MAX. DEPTH =																							
CTD CONVERTED MONITOR VALUES		X PAR		X FLUOR		X CHLOR		X TRANSMISSOMETER		Cleared air bleed valve													
SAMPLE BOTTLE DATA		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY													
SAMPLE BOTTLE NUMBER																							
PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SALINITY													
1																							
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							

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VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX209		SBC7	
CON	LATITUDE		LONGITUDE		DATE JD=
SC	DEG	MIN	DEG	MIN	DAY MO YR
CAS	16 42 50 N		164 03 42 W		20 JUN 98
#	TIMES		JD/TIME		
	25367 20.50		16403.42		
CTD		DATA CN			
TYPE & SN SB911+		START DCWN			
PRES SN 5040		AT DEPTH			
TEMP SN 11390		AT SURFACE			
COND SN 6501		AT SURFACE			
TEMP SN 4 1133		AT SURFACE			
TEMP SN 11391		AT SURFACE			
POS	CTD CONVERTED MONITOR VALUES		CLEAR AIR BLEED VALVE		
TRIP	<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input type="checkbox"/> CHAM	<input checked="" type="checkbox"/> TRANSMISSOMETER	
DEPTH	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		
	PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					

Calvet

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