

VESSEL		PROJECT & LEG				STATION DESIGNATION								
Alpha Helix		HX209				58E60								
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND D. SP.	CLOUD (amt)	WEATHER	BOTTO M DEPT	STA. NAME/ID
75515.27	N 16411.70	W 27MAY 98	01111										74	58E60
DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	(deg)	(m/s)					(m)	
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		PAR		FLUOR		CHAM		TRANSMISSOMETER		MAX. DEPTH = m				
POS TRIP DEPTH		CTD CONVERTED MONITOR VALUES												
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER						
1	70.0							SAL. NUTR. CHL. HPLC Other						
2	60.0													
3	50.0													
4	40.0													
5	30.0													
6	20.0													
7	15.0													
8	10.0													
9	0.0													
10														
11														
12														

less structure
4.775
4.3240
4.56

VESSEL		PROJECT & LEG		STATION DESIGNATION												
Alpha Helix		HX209		SBES												
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN.	WIND D. SP.	CLOUD (amt)	WEATHER	BOTTO M DEPT	STA. NAME/ID	
8	55 2.8	41 64 29.6	47 MAY 19 8	01 39	.	.								64	SBES	
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		PAR	FLUOR	CHAM	TRANSMISSOMETER	MAX. DEPTH = m									
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLO	Other					
1	58						008	35	✓							
2	50						01	34								
3	40							33	✓							
4	30							32	✓							
5	20							31	✓							
6	10							30	✓							
7	0							29	✓							
8																
9																
10																
11																
12																

10° only
43
30

VESSEL		PROJECT & LEG		STATION DESIGNATION											
Alpha Helix		HX209		5854											
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN.	WIND D. (m/s)	CLOUD (amt)	WEATHER	BOTTO M DEPT H	STA. NAME/ID
95510.37	10.37	16407.63	27 MAY 98	0206	.	.	.	.	.	.	.	.	.	54	5854
DEG MIN	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	*	(m)	
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		PAR		FLUOR		CHAM		TRANSMISSOMETER		MAX DEPTH = m					
CTD CONVERTED MONITOR VALUES		SALINITY		SALINITY		SALINITY		SALINITY							
PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY							
TRIP DEPTH		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL		NUTR		CHL		HPLC		Other	
1	50							41		✓					
2	40							40							
3	30							39							
4	20							38		✓					
5	10							37							
6	0							36							
7	0														
8															
9															
10															
11															
12															

poss at bot

4.8 to

VESSEL		PROJECT & LEG		STATION DESIGNATION											
Alpha Helix		HX209		513EA											
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN.	WIND D. SP. (m/s)	CLOUD (amt)	WEATHER	BOTTO M DEPT H	STA. NAME/ID	
105305.419	16403.62	27	MAY 98	0249	.	.							41	513EA	
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		PAR	FLUOR	CHAM	TRANSMISSOMETER	Cleaned air bleed valve								
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER								
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLO	Other				
1	38						010	46	✓						
2	30						45								
3	20						44	✓							
4	10						43								
5	0						42	✓							
6															
7															
8															
9															
10															
11															
12															

MAX. DEPTH = m

VESSEL		PROJECT & LEG		STATION DESIGNATION										
Alpha Helix		HX209		5361										
CON SC CAST	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND D. SP.	CLOUD (amt)	WEATHER	BOTTO M DEPT	STA. NAME/ID
#	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)	%		H	
1155	23.0	164.1	27 MAY 98	0315	.	.							27	5361
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		PAR		FLUOR		CHAM		TRANSMISSOMETER		MAX. DEPTH = m		
POS		TRIP		DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER				
		PRESSURE		PRI. TEMP.		SEC. TEMP		SALINITY		SALINITY				
1	25									SAL		NUTR	CHL	HPLC Other
2	20									53		✓		
3	15									52				
4	10									51				
5	5									50				
6	0									49				
7										48		✓		
8														
9														
10														
11														
12														

VESSEL		PROJECT & LEG		STATION DESIGNATION											
Alpha Helix		HX209		58C1											
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND D. SP	CLOUD (amt)	WEATHER	BOTTO M DEPT	STA. NAME/ID
125505.04	11	16257.28	27 MAY 91	0445										28	58C1
CTD	TIMES		JD/TIME	DATA LOCATION											
TYPE & SN SB911+	DATA ON			Tape/Diskette ID File Name/Header											
PRESS SN	START DOWN			50405											
TEMP SN	AT DEPTH			11390											
COND SN	AT SURFACE			6501											
TEMP SN	PAR		FLUOR	CHAM	TRANSMISSOMETER										
CTD DEPTH	CTD CONVERTED MONITOR VALUES														
1	24	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER							
2	20							SAL. NUTR. CHL. HPLC Other	DOC Rec						
3	15								56						
4	10								55						
5	0								54						
6									53						
7									52						
8									51						
9									50						
10									49						
11									48						
12									47						

Texas
T v o l k s 4,521
Observed

(max)

VESSEL		PROJECT & LEG				STATION DESIGNATION									
Alpha Helix		HX209				53C2									
CON SC CAST	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND D. SP. (m/s)	CLOUD (amt)	WEATHER	BOTTO M DEPT	STA. NAME/ID	
#	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	*	*	(m)			
135508.25	N	16353.37	W	7	M	A	Y	9	8	C	2	9	33	53C2	
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		PAR		FLUOR		CHAM		TRANSMISSOMETER		MAX. DEPTH = m					
POS TRIP DEPTH		CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR. CHL. HPLC Other	
1	30											62		✓	
2	20											61			
3	10											60			
4	0											59		✓	
5															
6															
7															
8															
9															
10															
11															
12															

12m

VESSEL		PROJECT & LEG		STATION DESIGNATION													
Alpha Helix		HX209		58C3													
CON	LATITUDE	LONGITUDE	DATE	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND D.	CLOUD	WEATHER	BOTTO M DEPT H	STA. NAME/ID			
SC	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)			(m)				
CAST	14 55 10.63 N	163 55.4 W	27 MAY 98	0600	.	.							44	58C3			
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	41123		AT SURFACE						MAX. DEPTH = m								
TEMP SN	11391		PAR		FLUOR		CHLAM		TRANSMISSOMETER		Cleaned air bleed valve						
CTD DEPTH	CTD CONVERTED MONITOR VALUES																
TRIP DEPTH	PRESSURE				PRI. TEMP.				SEC. TEMP.				SALINITY				
1	39m													SALINITY			
2	30m													SAL. 61.4			
3	20m													NUTR. 6.5			
4	10m													CHL. 6.4			
5	0													HPLO 6.3			
6														Other			
7																	
8																	
9																	
10																	
11																	
12																	

[illegible]

[illegible]

[illegible]

VESSEL		PROJECT & LEG						STATION DESIGNATION						
Alpha Helix		HX209						58C7						
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN.	WIN D SP D.	CLOUD %	WEATHER	BOTTO M DEPT H	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)	%		(m)	
1	85	52.4	N	14	03.33	W	7	MAY	9	8	08	40		84
CTD	TIMES	JD/TIME	DATA LOCATION											
TYPE & SN SB911+	DATA ON		Tape/Diskette ID File Name/Header											
PRESS SN P5040	START DOWN													
TEMP SN T1390	AT DEPTH													
COND SN C501	AT SURFACE													
TEMP SN T1391	<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	CTD CONVERTED MONITOR VALUES													
	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAMPLE BOTTLE DATA								
1	79					SAL.	NUTR.	CHL.	HPLC	Other	Doc			
2	50					91.8	93							
3	40					92	91							
4	30					90	90							
5	20					89	89							
6	10					88	88							
7	0					87	87							
8														
9														
10														
11														
12														
MAX. DEPTH = m														

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION										
Alpha Helix		HX209		538C9										
CON SC CAST	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIN D SPD	CLOUD TYPE	WEATHER	BOTTO M DEPT	STA. NAME/ID
#	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	(deg)	(m/s)				(m)	
	205	25.3	3N	164	07.4	0W27	MAY 98	1007					97	538C9
CTD	TIMES		JD/TIME		DATA LOCATION									
TYPE & SN	SB911+		DATA ON		Tape/Diskette ID File Name/Header									
PRESS SN	P5040		START DOWN											
TEMP SN	T1390		AT DEPTH											
COND SN	C501		AT SURFACE											
TEMP SN	T1391		<input checked="" type="checkbox"/> PAR		<input checked="" type="checkbox"/> FLUOR		<input type="checkbox"/> CHIAM		<input checked="" type="checkbox"/> TRANSMISSOMETER		<input type="checkbox"/> Cleaned air bleed valve		MAX. DEPTH = m	
TRIP DEPTH	CTD CONVERTED MONITOR VALUES													
	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAMPLE BOTTLE DATA								
1	91.1					SAL.	NUTR.	CHL.	HPLC	Other				
2	75.1					030	10.9							
3	50.1					01	10.8							
4	40.1						10.7							
5	30.1						10.6							
6	20.1						10.5	✓						
7	10.1						10.4							
8	0						10.3	✓						
9							10.2							
10							10.1							
11							10.0							
12							9.9							

VESSEL		PROJECT & LEG		STATION DESIGNATION													
Alpha Helix		HX209		58C10													
CON SC CAST	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND D. SP.	CLOUD (amt)	WEATHER	BOTTO M DEPT	STA. NAME/ID			
#	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	(m)	(m)						
215	5 27.7	8N 164 09.4	4 W 27 MAY 1981	05 7	.	.								9853C10			
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS									
TYPE & SN SB911+		DATA ON				Tape/Diskette ID		File Name/Header		Jelly in and a							
PRESS SN		P5040		START DOWN													
TEMP SN		T1390		AT DEPTH													
COND SN		C501		AT SURFACE													
TEMP SN		T1391		<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		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER											
		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.	CHL.	HPLC	Other
1	924												117				Doc
2	752												116				
3	501												115				
4	401												114				
5	304												113				
6	204												112				
7	104												111				
8	0												110				
9																	
10																	
11																	
12																	

MAX. DEPTH = m

VESSEL		PROJECT & LEG				STATION DESIGNATION									
Alpha Helix		HX209				58C11									
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND D. SP.	CLOUD (amt)	WEATHER	BOTTO M DEPT	STA. NAME/ID	
225	53.0	121.3	164	11.25	27	MA	Y 98	113	2				9.9	53C11	
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	(m)	
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	t1390	AT DEPTH													
COND SN	c501	AT SURFACE													
TEMP SN	t1391	<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		MAX. DEPTH =			
POS	TRIP	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
DEPTH		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLO	Other				
1	94m							125							
2	73m							124							
3	50m							123							
4	40m							122							
5	30m							121							
6	20m							120							
7	10m							119							
8	0							118							
9															
10															
11															
12															

pass fat bot.

Jack Prod

VESSEL		PROJECT & LEG		STATION DESIGNATION	
Alpha Helix		HX209			
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	WET BULB (°C)
					PRESSURE (mb)
					SEA STATE
					WIND DIRN (deg)
					WIND D. (m/s)
					CLOUD (amt)
					WEATHER
					BOTTO M DEPT H
					STA. NAME/ID
CTD	TIMES	JD/TIME	DATA LOCATION		
TYPE & SN SB911+	DATA ON		Tape/Diskette (I/D) File Name/Header		
PRESS SN p5040	START TOWN				
TEMP SN t1390	AT DEPTH				
COND SN c501	AT SURFACE				
TEMP SN t1391	<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input type="checkbox"/> CHIAM	<input checked="" type="checkbox"/> TRANSMISSOMETER	<input type="checkbox"/> Cleaned air bleed valve
MAX. DEPTH =	m				
CTD CONVERTED MONITOR VALUES	SAMPLE BOTTLE DATA				
POS TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY
1 15					
2 10					
3 5					
4 0					
5					
6					
7					
8					
9					
10					
11					
12					
REMARKS					
10 5th peds					

VESSEL		PROJECT & LEG		STATION DESIGNATION										
Alpha Heix		HX209		58A16										
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND D. (m/s)	CLOUD (%)	WEATHER	BOTTO DEPT H	STA. NAME/ID
2555700.77N	16351.15W	28 MAY 98	1335											58A16
CTD	TIMES		JD/TIME	DATA LOCATION										
TYPE & SN SB911+	DATA CN			Tape/Diskette ID File Name/Header										
PRESS SN	START DOWN													
TEMP SN	AT DEPTH													
COND SN	AT SURFACE													
TEMP SN	11391		<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							
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES												
	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	CALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER							
1	21						SAL.	NUTR.	CHL.	HPLO	Other	Duck Pond		
2	21													
3	21													
4	21													
5	21													
6	21													
7	21													
8	21													
9	21													
10	21													
11	21													
12	21													

REMARKS
Duck Pond

MAX. DEPTH = m

5 → Deck, 1000s

VESSEL		PROJECT & LEG				STATION DESIGNATION								
Alpha Helix		HX209				PMCL								
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND D. SP. D.	CLOUD TYPE	WEATHER	BOTTO M DEPT	STA. NAME/ID
DEG MIN	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)			H	
26	56	31	54	N	1	59	59	64	W	22	05	20		PMCL
CTD														
TYPE & SP		SB911+		DATA ON		Tape/Diskette ID		File Name/Header		REMARKS				
PRESS SN		P5040		START DOWN						DOC is at				
TEMP SN		T1390		AT DEPTH						top bath on				
COND SN		C501		AT SURFACE						+ chlor. max				
TEMP SN		T1391		<input checked="" type="checkbox"/> PAR		<input checked="" type="checkbox"/> FLUOR		<input type="checkbox"/> CHLAM		<input checked="" type="checkbox"/> TRANSMISSOMETER		MAX. DEPTH =		
CTD CONVERTED MONITOR VALUES														
POS	TRIP	PRESSURE				PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAMPLE BOTTLE DATA				
DEPTH														
1	20									SAL.	NUTR.	CHL	HPLO	Other
2	10									126	✓			✓
3	5									126	✓			✓
4														
5														
6														
7														
8														
9														
10														
11														
12														

28 May 06:00Z
1 pen
4,500 av open
OV blocked

VESSEL	PROJECT & LEG	STATION DESIGNATION
Alpha Helix	HX209	Pmca
CON SC CAST #	LATITUDE LONGITUDE DATE JD=	TIME (GMT) DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY WIND DIRN. WIN DSP.D.
CAS#	DEG MIN DEG MIN DAY MO YR HR MIN	(°C) (°C) (mb)
#	27 56 33 . 5 N 16 00 02 . 7 W 29 MAY 1980 05 49	(deg) (ms)
CTD	TIMES JD/TIME	BOTTO M DEPT H STA. NAME/JD
TYPE & SN SB911+	DATA ON _____	REMARKS
PRESS SN P5040	START DOWN _____	
TEMP SN t1390	AT DEPTH _____	
COND SN c501	AT SURFACE _____	
TEMP SN t1391	<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input type="checkbox"/> CHAM <input checked="" type="checkbox"/> TRANSMISSOMETER <input type="checkbox"/>	MAX. DEPTH = m
POS TRIP DEPTH	CTD CONVERTED MONITOR VALUES:	SAMPLE BOTTLE NUM BER
	PRESSURE PRI. TEMP SEC. TEMP SALINITY	SAMPLE DATA SALT INUTRI CHL HPLC Other
1 26		✓
2 20		✓
3 15		✓
4 10		✓
5 5		✓
6 0		✓
7		
8		
9		
10		
11		
12		

VESSEL		PROJECT & LEG				STATION DESIGNATION									
Alpha Helix		HX209				PMc3									
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND D. SP. D.	WIN D. SP. D.	CLOUD (amt)	WEATHER	BOTTO M DEPT	STA. NAME/ID	
285635.64	11 60 05	11 21 29	1988	06 01									412	PMc3	
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	<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	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER		
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLO	Other				
1	29						129								
2	30						132								
3	30						137								
4	10						136								
5	0						135								
6															
7															
8															
9															
10															
11															
12															

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T & S spread

VESSEL Alpha Helix		PROJECT & LEG HX209				STATION DESIGNATION PMCH								
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND D. SP.	CLOUD (amt)	WEATHER	BOTTO M DEPT	STA NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)			(m)	
	29 56 37.73N	160 09.08W	29 MAY 98	06 53									47 PMCH	
CTD		TIMES		JD/TIME		DATA LOCATION				REMARKS				
TYPE & SN SB911+		DATA ON				Tape/Diskette ID File Name/Header				will be used				
PRESS SN		START DOWN								shallower not				
TEMP SN		AT DEPTH												
COND SN		AT SURFACE												
TEMP SN		t1391		<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						MAX. DEPTH = m				
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLO	Other			
1	43											00C		
2	43													
3	30													
4	20													
5	10													
6	0													
7														
8														
9														
10														
11														
12														

204001-?

DESIGNATION
PMCS

VESSEL	PROJECT & LEG	STATION DESIGNATION
Alpha Helix	HX209	Pmcb Pmc6

CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIN D SPD	CLOUD TYPE	BOTTO M DEPT H	S/A NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)		(deg)	(m/s)			
	315	74	85	16	01	51	Rw29	MAY 98	08	DD	.	.	Pmcdg

CTD	TIMES	JDTIME	DATA LOCATION	REMARKS
TYPE & SN SB911+	DATA ON _____		Tape/Diskette ID File Name/Header	
PRESS SN p5040	START DOWN _____			
TEMP SN t1390	AT DEPTH _____			
COND SN c501	AT SURFACE _____			
TEMP SN t1391	<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input type="checkbox"/> CHAM <input checked="" type="checkbox"/> TRANSMISSOMETER <input type="checkbox"/>			MAX. DEPTH = m

POS TRIP DEPTH	CTD CONVERTED MONITOR VALUES	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER
	PRESSURE PRI. TEMP. SEC. TEMP. SALINITY	SALINITY	SAL. NUTRI. CHI. HPLC Other
1 56			156 ✓ Doc
2 40			158
3 20			154
4 20			153
5 10			152
6 0			151 ✓
7			
8			
9			
10			
11			
12			

[illegible]

CON																					
SC																					
CAST																					
#	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIN D SP	CLOUD (amt)	TYPE	WEATHER	BOTTO M DEPT	H	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)		(deg)	(ms)	•	•	•	(m)		
385	44	5.9	9	N	16	02	1.5	3	29	MAY	98	09	10	.	.				6.3	Pm	C8

CTD	TIMES	JD/TIME	DATA LOCATION		REMARKS
			Tape/Diskette ID	File Name/Header	
TYPE & S# SB911+	DATA ON				
PRESS SN	15040	START DOWN			
TEMP SN	11390	AT DEPTH			
COND SN	0501	AT SURFACE			
					MAX. DEPTH =

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION										
Alpha Helix		HX209		PMc9										
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN.	WIND D. (m/s)	CLOUD TYPE	WEATHER	BOTTO M DEPT H	STA. NAME/ID
345648.05N	110024.63W	29	MAY 98	0944	.	.	.	.	.	.	.	.	69	PMc9
DEG MIN	DEG MIN	DAY	MO	YR	HR	MIN	(°C)	(mb)	(deg)	(m/s)	.	.	(m)	
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	t1390	AT DEPTH												
COND SN	c501	AT SURFACE												
TEMP SN	t1391	<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				
POS TRIP DEPTH	CTD CONVERTED MONITOR VALUES													
	PRESSURE	PRI TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER							
1	64					SAL. 034	NUTR. 174	CHL. ✓	Doc T3(max)					
2	40						173							
3	30						172							
4	20						171							
5	10						170							
6	0						169	✓						
7														
8														
9														
10														
11														
12														

MAX. DEPTH = m

VESSEL		PROJECT & LEG		STATION DESIGNATION										
Alpha Helix		HX209		PMG10										
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND D. SP.	CLOUD TYPE	WEATHER	BOTTO M DEPT	STA. NAME/ID
355650.13N	116027.81W	9 MAY 98	19											672 PMG10
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	11391													
		<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	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER	
DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLO	Other				
1	63.4					190		✓						
2	40.4					179								
3	20.4					178								
4	20.4					177								
5	10					176								
6	0					175		✓						
7														
8														
9														
10														
11														
12														

MAX. DEPTH = m

[illegible]

VESSEL		PROJECT & LEG				STATION DESIGNATION								
Alpha Helix		HX209				10511								
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND D. (m/s)	CLOUD TYPE	WEATHER	BOTTO M DEPT H	STA. NAME/ID
275648.03N	16039.93W	29 MAY 98	1202											10511
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	t1390		AT DEPTH											
COND SN	c501		AT SURFACE											
TEMP SN	t1391		<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	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER						
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY		SAL.	NUTR.	CHL.	HPLO	Other		
1	624							037	192	✓				
2	404								191					
3	30								190					
4	20								189					
5	10								188					
6	0								187	✓				
7														
8														
9														
10														
11														
12														

MAX. DEPTH = m

VESSEL Alpha Helix		PROJECT & LEG HX209		STATION DESIGNATION PME9											
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND D. SP.	CLOUD TYPE	WEATHER	BOTTO M DEPT	STA. NAME/ID	
385643.95N	10033.72W	29 MAY 1981	245										69	PME9	
DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	(m)						
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS							
TYPE & SN SB911+		DATA ON				Tape/Diskette ID		File Name/Header							
PRESS SN	p5340	START DOWN													
TEMP SN	t1390	AT DEPTH													
COND SN	c501	AT SURFACE													
TEMP SN	t1391	<input checked="" type="checkbox"/> PAR		<input checked="" type="checkbox"/> FLUCR		<input checked="" type="checkbox"/> CHIAM		<input checked="" type="checkbox"/> TRANSMISSOMETER		<input type="checkbox"/> Cleaned air bleed valve					
POS	TRIP	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAI.	NUTR.	CHL.	HPLO	Other					
1	1035														
2	40														
3	30														
4	20														
5	10														
6	0														
7															
8															
9															
10															
11															
12															

MAX. DEPTH = m

VESSEL		PROJECT & LEG				STATION DESIGNATION								
Alpha Helix		HX209				PM 17								
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND D. (m/s)	CLOUD TYPE	WEATHER	BOTTO M DEPT H	STA. NAME/ID
395639.78N	16027.5	0729	MAY 98	1330	.	.	.	.	.	.	.	.	64	PM 17
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	T1390		AT DEPTH											
COND SN	C501		AT SURFACE											
TEMP SN	T1391	<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	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER						
	DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLC	Other			
1	59						239	204						
2	40						202							
3	30						202							
4	20						201							
5	10						200							
6	0						199							
7														
8														
9														
10														
11														
12														

MAX. DEPTH = m

VESSEL Alpha Helix		PROJECT & LEG HX209				STATION DESIGNATION PM516								
CON SC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND D. SP.	CLOUD (amt)	WEATHER	BOTTO M DEPT	STA. NAME/ID
405637.7	01	6024.3	5729	MAY 98	1355									516 PM516
DEG MIN	DEG MIN	DAY MO	YR	HR MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	(m)				
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	t1390	AT DEPTH												
COND SN	c501	AT SURFACE												
TEMP SN	t1391	<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	CTD CONVERTED MONITOR VALUES								SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		
	DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	NUTR.	CHL.	HPLO	Other			
1		No Samples												
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

MAX. DEPTH = 52 m

[illegible]

VESSEL		PROJECT & LEG				STATION DESIGNATION															
Alpha Helix		HX209				12ME4															
CON	SC	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND D. SP.	CLOUD	WEATHER	BOTTO M DEPT H	STA. NAME/ID			
CAST	#	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(deg)	(m/s)		(m)				
	425	23.5	6N	116	18.0	29	MAY	98	14	52	.	.						PM 57			
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	t1390		AT DEPTH																		
COND SN	c501		AT SURFACE																		
TEMP SN	t1391		<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		MAX. DEPTH = 41 m								
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES												SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER					
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY											SAL.	NUTR.	CHL.	HPLO	Other
1																					
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

VESSEL Alpha Helix		PROJECT & LEG HX209				STATION DESIGNATION PME3								
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND D. SP.	CLOUD (amt)	WEATHER	BOTTO M DEPT	STA. NAME/ID
35631.49N	16614.94W	29 MAY 98	1510										34	PME3
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		T1390		AT DEPTH										
COND SN		C501		AT SURFACE										
TEMP SN		T1391		<input checked="" type="checkbox"/> PAR		<input checked="" type="checkbox"/> FLUOR		<input type="checkbox"/> CHAM		<input checked="" type="checkbox"/> TRANSMISSOMETER		Cleared air bleed valve		
POS		TRIP		DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER				
		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY				
1	29.4									043		NUTR	CHL	HPLC
2	10									211				
3	0									210				
4														
5														
6														
7														
8														
9														
10														
11														
12														

MAX. DEPTH = m

[illegible]

VESSEL		PROJECT & LEG				STATION DESIGNATION										
Alpha Helix		HX209				PMH 1										
CON SC CAST	LATITUDE	LONGITUDE	DATE	JD	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPEED	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)		
455	52	5.7	ON	15	9	50	69	wa	9	MAY	9	8	17	30	PMH 1	
CTD	TIMES		JD/TIME		DATA LOCATION											
TYPE & SN	SB911+		DATA ON		Tape/Diskette ID		File Name/Header									
PRESS SN	p5040		START DOWN													
TEMP SN	t1390		AT DEPTH													
COND SN	c501		AT SURFACE													
TEMP SN	t1391		<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	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY						SAL.	NUTR.	CHL.	HPLC	Other
1	13.4															
2	17.6															
3	17.6															
4	17.6															
5	17.6															
6	5.1															
7	5.1															
8	5.1															
9	5.1															
10	5.1															
11																
12																
MAX. DEPTH = m																
REMARKS Deck Reads																

VESSEL Alpha Helix		PROJECT & LEG HX209		STATION DESIGNATION 2MA1	
CON SC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT)	DRY BULB
					WET BULB
					PRESSURE
					SEA STATE
					WIND D. SP. D.
					WIND D. SP. D.
					CLOUD (amt)
					WEATHER
					BOTTO M DEPT
					STA. NAME/ID
CTD	TIMES		JD/TIME		DATA LOCATION
TYPE & SN SB911+	DATA ON				Tape/Diskette ID
PRESS SN	START DOWN				File Name/Header
TEMP SN	AT DEPTH				
COND SN	AT SURFACE				
TEMP SN	t1391				MAX. DEPTH =
	<input checked="" type="checkbox"/> PAR		<input checked="" type="checkbox"/> FLUOR		<input type="checkbox"/> CHIAM
			<input checked="" type="checkbox"/> TRANSMISSOMETER		<input type="checkbox"/> Cleaned air bleed valve
POS	TRIP	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA
DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY
1	18				SAL. NUTR. CHL. HPLC Other
2	10				
3	5				
4	0				
5					
6					
7					
8					
9					
10					
11					
12					

REMARKS
2MA1

[illegible]

[illegible]

VESSEL	PROJECT & LEG	STATION DESIGNATION
Alpha Helix	HX209	P MAY
CON SC CAST #	LATITUDE LONGITUDE DATE JD=	TIME DRY WET PRESSURE SEA STATE VISIBILITY WIND DIRN WIN DSP CLOUD WEATHER BOTTO M DEPT STA NAME/ID
#	DEG MIN DEG MIN DAY MO YR HR MIN	(GMT) BULB (°C) BULB (°C) (mb) (deg) (m/s)
CID	TIMES DATA ON	JD/TIME
TYPE & SN \$B\$891+	p5040 START DOWN	
PRESS SN p5040	AT SURFACE	
TEMP SN t1390	COND SN c501	
TEMP SN t1391	FLUOR CHLAM TRANSUSOMETER	
POS TRIP DEPTH	CTD CONVERTED MONITOR VALUES	SAMPLE BOTTLE DATA SSAMPLE BOTTLE NUMBER
1 45	PRESSURE PRI. TEMP SEC. TEMP SALINITY	SALINITY SAL. NUTR CHL HPLC Other
2		
3 :		
4		
5		
6		
7		
8		
9		
10		
11		
12		