

VESSEL RV Alpha Helix		PROJECT & LEG H X 2 5 9		DSDB I.D.		STATION DESIGNATION S0715																							
CONSC CAST #		LATITUDE		LONGITUDE		DATE-JD=		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	(m)													
51	52	22	98	17	25	2	JUN	02	21	40																			
SBE 9+ 09P-26778-0656		TIMES		JD/TIME		DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS																	
PRESS SN 8 6 5 3 1		DATA ON																											
PRI TEMP SN 1771		START DOWN																											
SEC TEMP SN 1772		AT DEPTH																											
PRI COND SN 2272		AT SURFACE																											
SEC COND SN 2251		PAR SN _ 4 4 9 7		FLUOR SN _ 0 2 1 8 2		CHLAM SN		TRANS. SN _ cst241dr																					
POS. TRIP DEPTH		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAL.		NUTR.		CHL.		PAM		Other							
1	800																												
2	250																												
3	175																												
4	100																												
5	75																												
6	50																												
7	30																												
8	20																												
9	10																												
10	0																												
11																													
12																													

Cell 105
Counts

VESSEL RV Alpha Helix		PROJECT & LEG H X 2 5 9		DSDB I.D.		STATION DESIGNATION 58213																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		WET BULB		PRESSURE (mb)		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
525218.84N		7256.19W		2246		2246		2246		2246		2246		2246		2246		2246		2246		2246		2246		2246		2246		2246	
SBE 9+ 09P 26778-0656		TIMES		JD/TIME		DATA LOCATION		REMARKS																							
PRESS SN 8 6 5 3 1		DATA ON		Tape/Diskette ID		File Name/Header																									
PRI TEMP SN 1771		START DOWN																													
SEC TEMP SN 1772		AT DEPTH																													
PRI COND SN 2272		AT SURFACE																													
SEC COND SN 2251		PAR SN 4 4 9 7		FLUOR SN 0 2 1 8 2		CHLAM SN		TRANS. SN _cs241dr																							
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER																							
1		500		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.		CHL.		PAM		Other									
2		250																													
3		200																													
4		100																													
5		75																													
6		50																													
7		30																													
8		20																													
9		10																													
10		0																													
11																															
12																															

filter

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION															
RV Alpha Helix		H X 2 5 9				56Y12															
CONSC CAST #	DEG	MIN	LATITUDE		LONGITUDE		DATE-JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
53521	4.7	46N	172	53.4	2W	2	JUN	02	23	43									278		
SBE 9+ OSP 26778-0656		TIMES		JD/TIME		DATA LOCATION		REMARKS													
PRESS SN 8 6 5 3 1		DATA ON				Tape/Diskette ID		File Name/Header													
PRI TEMP SN 1771		START DOWN																			
SEC TEMP SN 1772		AT DEPTH																			
PRI COND SN 2272		AT SURFACE																			
SEC COND SN 2251																					
POS. TRIP		PAR SN _ 4 4 9 7		FLUOR SN _ 0 2 1 8 2		CHLAM SN		TRANS. SN _ cst241dr													
DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SALINITY		SALINITY		SAL.		NUTR.		CHL.		PAM		Other			
1 265		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.		CHL.		PAM			
2 100																					
3 75																					
4 50																					
5 30																					
6 20																					
7 10																					
8 0																					
9																					
10																					
11																					
12																					

out
counts

270

50

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[illegible]

[illegible]

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION										
RV Alpha Helix		H X 2 5 9				56706										
CONSC CAST #	LATITUDE		LONGITUDE		DATE-JD=		TIME (GMT)	DRY BULB	WET BULB	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
585254.48	17236.76	3 JUN 02	0225												124	
SBE 9+ 08P 26778-0656		TIMES		JD/TIME		DATA LOCATION		REMARKS								
PRESS SN	8 6 5 3 1	DATA ON		Tape/Diskette ID		File Name/Header										
PRI TEMP SN	1771	START DOWN														
SEC TEMP SN	1772	AT DEPTH														
PRI COND SN	2272	AT SURFACE														
SEC COND SN	2251	PAR SN _ 4 4 9 7		FLUOR SN _ 0 2 1 8 2		CHLAM SN _										
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SALINITY		SAL.		NUTR.		CHL.		PAM		Other
1	115	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY											
2	75															
3	50															
4	30															
5	20															
6	10															
7	0															
8																
9																
10																
11																
12																

[illegible]

VESSEL				PROJECT & LEG				DSDB I.D.				STATION DESIGNATION																	
RV Alpha Helix				H X 2 5 9								56702																	
CONSC CAST #		LATITUDE		LONGITUDE		DATE -JD=		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		WIND DIRN.		WIND SPD.		WIND TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	(m)									
605	15	6	24	N	172	25	38	W	3	JUN	02	05	36																
SBE 9+ 09P 26778-0656				TIMES				JD/TIME				DATA LOCATION				REMARKS													
PRESS SN 8 6 5 3 1				DATA ON				Tape/Diskette ID				File Name/Header																	
PRI TEMP SN 1771				START DOWN																									
SEC TEMP SN 1772				AT DEPTH																									
PRI COND SN 2272				AT SURFACE																									
SEC COND SN 2251				PAR SN _ 4 4 9 7				FLUOR SN _ 0 2 1 8 2				CHLAM SN _				TRANS. SN _ cs241dr													
POS. TRIP DEPTH				CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER																	
				PRESSURE				PRI. TEMP.				SEC. TEMP				SALINITY													
1 500																SAL.													
2 250																NUTR.													
3 100																CHL.													
4 75																PAM													
5 50																Other													
6 30																													
7 20																													
8 10																													
9 0																													
10																													
11																													
12																													

[illegible]

VESSEL RV Alpha Helix		PROJECT & LEG H X 2 5 9				DSDB I.D.				STATION DESIGNATION 50 Y17											
CONSC CAST #	LATITUDE		LONGITUDE		DATE-JD=		TIME (GMT)		DRY BULB	WET BULB	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID				
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	*	(m)					
125227	27	25	17	30	3	JUN	02	17	00							1041					
SBE 9+ OSP 26778-0656		TIMES		JD/TIME		DATA LOCATION												REMARKS			
PRESS SN 8 6 5 3 1		DATA ON				Tape/Diskette ID				File Name/Header											
PRI TEMP SN 1771		START DOWN																			
SEC TEMP SN 1772		AT DEPTH																			
PRI COND SN 2272		AT SURFACE																			
SEC COND SN 2251		PAR SN 4 4 9 7		FLUOR SN 0 2 1 8 2		CHLAM SN		MAX. DEPTH = m													
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA											SAL.	NUTR.	CHL.	PAM	Other
1	35																				
2	35																				
3	35																				
4	35																				
5	0																				
6	0																				
7	0																				
8	0																				
9																					
10																					
11																					
12																					

Carl Cook

Cast to be endow- / ~~Seem~~
chasing killer whales /

VESSEL			PROJECT & LEG			DSDB I.D.			STATION DESIGNATION												
RV Alpha Helix			H X 2 5 9						36412 36413												
CONSC CAST #	LATITUDE		LONGITUDE		DATE-JD=		TIME (GMT)		DRY BULB	WET BULB	SEA STATE	WIND DIRN.	WIND SPD.	WIND TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID				
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	(amt)		(m)					
6552	16.85	N	7258.46	W	4	JUN	02	23	35							297					
SBE 9+ 09P 26778-0656			TIMES		JD/TIME		DATA LOCATION											REMARKS			
PRESS SN 8 6 5 3 1			DATA ON				Tape/Diskette ID		File Name/Header									1 rod.			
PRI TEMP SN 1771			START DOWN																		
SEC TEMP SN 1772			AT DEPTH																		
PRI COND SN 2272			AT SURFACE															Cleaned air bleed valve			
SEC COND SN 2251							PAR SN _ 4 4 9 7		FLUOR SN _ 0 2 1 8 2		CHLAM SN _		TRANS. SN _ csl241dr		MAX. DEPTH =		m				
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																			
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA											SAL.	NUTR.	CHL.	PAM	Other
1	16																				
2	16																				
3	16																				
4	16																				
5	16																				
6	16																				
7	16																				
8																					
9																					
10																					
11																					
12																					

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VESSEL RV Alpha Helix		PROJECT & LEG H X 2 5 9		DSD8 I.D.		STATION DESIGNATION 36x04																
CONSC CAST #	LATITUDE		LONGITUDE		DATE -JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	SEA STATE	WIND DIRN. SPD. (deg) (m/s)	WIND TYPE	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID					
675208.51N	17258.28W	5 JUN 02	0804													89						
SBE 9+ 08P 26778-0656		TIMES		JD/TIME		DATA LOCATION																
PRESS SN 8 6 5 3 1		DATA ON				Tape/Diskette ID File Name/Header																
PRI TEMP SN 1771		START DOWN																				
SEC TEMP SN 1772		AT DEPTH																				
PRI COND SN 2272		AT SURFACE				<input type="checkbox"/> Cleaned air bleed valve MAX. DEPTH = m																
SEC COND SN 2251		<input type="checkbox"/> PAR SN _ 4 4 9 7 <input type="checkbox"/> FLUOR SN _ 0 2 1 8 2 <input type="checkbox"/> CHLAM SN _		TRANS. SN _ csi241dr																		
POS.	TRIP DEPTH	SAMPLE BOTTLE DATA																				
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY											SAL.	NUTR.	CHL.	PAM	Other	
1	90																	1				
2	50																	2				
3	25																43	3				
4	10																	4				
5	0																	5				
6																						
7																						
8																						
9																						
10																						
11																						
12																						

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[illegible]

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION							
RV Alpha Helix		H X 2 5 9								56X01							
CONSC CAST #	LATITUDE		LONGITUDE		DATE-JD=		TIME (GMT)		DRY BULB	WET BULB	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	*	(m)	
7052	17	43	N	72	40	33	W	5	JUN	02	10	11				110	
SBE 9+ 09P 26778-0656		TIMES		JD/TIME		REMARKS											
PRESS SN 8 6 5 3 1		DATA ON				Tape/Diskette ID		File Name/Header									
PRI TEMP SN 1771		START DOWN															
SEC TEMP SN 1772		AT DEPTH															
PRI COND SN 2272		AT SURFACE						<input type="checkbox"/> Cleaned air bleed valve									
SEC COND SN 2251		PAR SN _ 4 4 9 7		FLUOR SN _ 0 2 1 8 2		CHLAM SN _		MAX. DEPTH = m									
POS.	TRIP	CTD CONVERTED MONITOR VALUES															
	DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
1	105													SAL.	NUTR.	CHL.	PAM
2	50													70-1	1	✓	✓
3	25														2	✓	✓
4	10														3	✓	✓
5	0														4	✓	✓
6															5	✓	✓
7																	
8																	
9																	
10																	
11																	
12																	

VESSEL RV Alpha Helix	PROJECT & LEG H X 2 5 9						DSDB I.D.								STATION DESIGNATION AMX05														
CONSC CAST #	LATITUDE			LONGITUDE			DATE-JD=			TIME (GMT)		DY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	* * *	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME>ID							
	DEG	MIN	N	DEG	MIN	E	DAY	MO	HR	MIN				*	*	*													
715221.75	17	52	1	72	13	.99 W	5	JUN	02	12	05	.	.	.	.	.	.	.	.	.	.	.	.
SBE 9+ OBP-26778-0656	TIMES	JD/TIME													DATA LOCATION								REMARKS						
PRESS SN 8 6 5 3 1	DATA ON													Tape/Diskette ID		File Name/Header													
PRI TEMP SN 1771	START DOWN																												
SEC TEMP SN 1772	AT DEPTH																												
PRI COND SN 2272	AT SURFACE																							<input type="checkbox"/> Cleaned air bleed valve					
SEC COND SN 2251														<input checked="" type="checkbox"/>		FLUOR/SN _ 0 2 1 8 2								<input checked="" type="checkbox"/> CHLAM SN _____		TRANS. SN _ csl241dr			
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																				SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER			
1	300	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY																	SAL.	NUTR.	CHL.	PAM	Other			
2	150																												
3	50																					713							
4	25																												
5	10																												
6	0																												
7																													
8																													
9																													
10																													
11																													
12																													

[illegible]

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VESSEL RV Alpha Helix		PROJECT & LEG H X 2 5 9		DSDB I.D.		STATION DESIGNATION AMX01													
CONSC CAST #	LATITUDE		LONGITUDE		DATE-JD=		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO													YR	HR	MIN
7552251	50	N	171	26	33	W	5	JUN	02	16	53								
SBE 9+ 08P 26778-0656		TIMES		JD/TIME		DATA LOCATION													
PRESS SN 8 6 5 3 1		DATA ON				Tape/Diskette ID		File Name/Header											
PRI TEMP SN 1771		START DOWN																	
SEC TEMP SN 1772		AT DEPTH																	
PRI COND SN 2272		AT SURFACE																	
SEC COND SN 2251								PAR SN _ 4 4 9 7		FLUOR SN _ 0 2 1 8 2		CHLAM SN		TRANS. SN _ cs241dr					
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																	
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAMPLE BOTTLE DATA	SAL.	NUTR.	CHL.	PAM	Other							
1	380							75.1	1	✓		✓							
2	150								2	✓		✓							
3	50								3	✓		✓							
4	25								4	✓		✓							
5	10								✓	✓		✓							
6	0								6	✓		✓							
7																			
8																			
9																			
10																			
11																			
12																			

VESSEL RV Alpha Helix		PROJECT & LEG H X 2 5 9		DSDB I.D.		STATION DESIGNATION AM 17						
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)	WET BULB	WIND DIRN. SPD.	WIND TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
775245.35N	17152.02W	DEG	MIN	DEG	MIN	HR	MIN	(°C)	(°C)	(m/s)	(m)	
		171	52	171	52	4	02				804	
SBE 9+ 09P 26778-0656		JD/TIME		TIMES		REMARKS Prod						
PRESS SN	8 6 5 3 1	DATA ON		Tape/Diskette ID		DATA LOCATION File Name/Header						
PRI TEMP SN	1771	START DOWN										
SEC TEMP SN	1772	AT DEPTH										
PRI COND SN	2272	AT SURFACE										
SEC COND SN	2251	PAR SN		4 4 9 7		FLUOR SN		0 2 1 8 2		CHLAM SN		
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER						
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAL. NUTR. CHL. PAM Other						
1	20											
2	20											
3	20											
4	20											
5	20											
6	20											
7	20											
8												
9												
10												
11												
12												

VESSEL RV Alpha Helix		PROJECT & LEG H X 2 5 9		DSDB I.D.		STATION DESIGNATION Amy 17																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE-JD=		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
785245.41 N		77252.11 W		6 JUN 02		0535																									
SBE 9+ 09P 26778-0656		TIMES		JD/TIME		DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS																			
PRESS SN 8 6 5 3 1		DATA ON																													
PRI TEMP SN 1771		START DOWN																													
SEC TEMP SN 1772		AT DEPTH																													
PRI COND SN 2272		AT SURFACE																													
SEC COND SN 2251																															
POS. TRIP DEPTH																															
1 4500																															
2 150																															
3 50																															
4 25																															
5 10																															
6 0																															
7																															
8																															
9																															
10																															
11																															
12																															

VESSEL RV Alpha Helix		PROJECT & LEG H X 2 5 9		DSDB I.D.		STATION DESIGNATION Am y15													
CONSC CAST #	LATITUDE		LONGITUDE		DATE-JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
7952410.05	15	05	15	05	07	07	07	07	07	07	07	07	07	07	07	07	07	07	
SBE 9+ 08P.26778-0856		TIMES		JD/TIME		DATA LOCATION													
PRESS SN 8 6 5 3 1		DATA ON		Tape/Diskette ID		File Name/Header													
PRI TEMP SN 1771		START DOWN																	
SEC TEMP SN 1772		AT DEPTH																	
PRI COND SN 2272		AT SURFACE																	
SEC COND SN 2251		PAR SN 4 4 9 7		FLUOR SN 0 2 1 8 2		CHLAM SN		TRANS. SN_cst241dr											
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER											
1	500	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAL.													
2	150					79-1													
3	50					1													
4	25					2													
5	10					3													
6	0					4													
7						6													
8																			
9																			
10																			
11																			
12																			

[illegible]

VESSEL RV Alpha Helix		PROJECT & LEG H X 2 5 9				DSDB I.D.				STATION DESIGNATION 17/17 11												
CONSC CAST #	LATITUDE		LONGITUDE		DATE-JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID					
815229.38N	17148.12W	6JUN02	1047													584						
SBE 9+ 09P 26778-0656		TIMES		JD/TIME		DATA LOCATION																
PRESS SN 8 6 5 3 1		DATA ON				Tape/Diskette ID File Name/Header																
PRI TEMP SN 1771		START DOWN																				
SEC TEMP SN 1772		AT DEPTH																				
PRI COND SN 2272		AT SURFACE				<input type="checkbox"/> Cleaned air bleed valve MAX. DEPTH = m																
SEC COND SN 2251		PAR SN _ 4 4 9 7		FLUOR SN _ 0 2 1 8 2		CHLAM SN		TRANS. SN _ cst241dr														
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																				
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA											SAL.	NUTR.	CHL.	PAM	Other	
1	480																	1	✓			
2	150																	2	✓			
3	50																81-3	3	✓			✓
4	25																	4	✓			✓
5	10																		✓			✓
6	0																	6	✓			✓
7																						
8																						
9																						
10																						
11																						
12																						

VESSEL		PROJECT & LEG		OSDB I.D.		STATION DESIGNATION																
RV Alpha Helix		H X 2 5 9				AM Y 09																
CONSC	CASE #	LATITUDE		LONGITUDE		DATE-JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID			
		DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	(deg)	(m/s)	*	(m)				
	825224.04	N	17	14	6.9	2	6	12	55									297				
SBE 9+ 09P.26778-0656		TIMES		JD/TIME		DATA LOCATION																
PRESS SN 8 6 5 3 1		DATA ON				File Name/Header																
PRI TEMP SN 1771		START DOWN																				
SEC TEMP SN 1772		AT DEPTH																				
PRI COND SN 2272		AT SURFACE																				
SEC COND SN 2251		PAR SN 4 4 9 7		FLUOR SN 0 2 1 8 2		CHLAM SN		TRANS. SN _csi241dr														
POS.		TRIP DEPTH		SAMPLE BOTTLE DATA																		
				SAMPLE BOTTLE NUMBER																		
1	284	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAL.													NUTR.	CHL.	PAM	Other
2	150					82-1													1			
3	50																		2			
4	25																		3			
5	10																		4			
6	0																		6			
7																						
8																						
9																						
10																						
11																						
12																						

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION											
RV Alpha Helix		H X 2 5 9				Amy 08											
CONSC	LATITUDE	LONGITUDE		DATE-JD=		TIME (GMT)	WET BULB	DRY BULB	WIND DIRN. SPD.	WIND TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID				
CAST #	DEG MIN	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(°C)	(deg) (m/s)	(m)		(m)					
835221.3	N 17 14 16.17	W 173 58		13 JUN 01	13 58							259					
SBE 9+ 09P.26778-0656		TIMES		JD/TIME		DATA LOCATION		REMARKS									
PRESS SN	8 6 5 3 1	DATA ON		Tape/Diskette ID		File Name/Header											
PRI TEMP SN	1771	START DOWN															
SEC TEMP SN	1772	AT DEPTH															
PRI COND SN	2272	AT SURFACE															
SEC COND SN	2251	PAR SN _ 4 4 9 7		FLUOR SN _ 0 2 1 8 2		CHLAM SN											
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SALINITY		SAL.		NUTR.		CHL.		PAM		Other	
1	250	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL.		NUTR.		CHL.		PAM	
2	150									83-1		2		✓			
3	50											3		✓		✓	
4	25											4		✓		✓	
5	10											6		✓		✓	
6	0																
7																	
8																	
9																	
10																	
11																	
12																	

Not used

[illegible]

VESSEL		PROJECT & LEG						STATION DESIGNATION														
RV Alpha Helix		H X 2 5 9						AMV04														
CONSC CAST #	LATITUDE		LONGITUDE		DATE-JD=		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE (deg)	WIND DIRN. (m/s)	WIND SPD. (m/s)	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID					
	DEG	MIN	DEG	MIN	DAY	MO												YR	HR	MIN		
	85	21	0	65	N	71	43	66	W	6	JUN	02	16	45								
SBE 9+ 09P-26778-0656							JD/TIME		DATA LOCATION									REMARKS				
PRESS SN	8 6 5 3 1		DATA ON				Tape/Diskette ID		File Name/Header													
PRI TEMP SN	1771		START DOWN															<input type="checkbox"/> Cleaned air bleed valve				
SEC TEMP SN	1772		AT DEPTH															MAX. DEPTH = m				
PRI COND SN	2272		AT SURFACE															<input type="checkbox"/> TRANS. S/N _cs1241dr				
SEC COND SN	2251																	SAMPLE BOTTLE NUMBER				
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																				
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA											SAL.	NUTR.	CHL.	PAM	Other	
1	475																	1				
2	150																	2				
3	50																	3				
4	25																	4				
5	10																	5				
6	0																	6				
7																						
8																						
9																						
10																						
11																						
12																						

VESSEL		PROJECT & LEG						STATION DESIGNATION														
RV Alpha Helix		H X 2 5 9																				
CONSC CAST #	LATITUDE		LONGITUDE		DATE-JD=		TIME (GMT)		WET BULB		PRESSURE		SEA STATE VISIBILITY		WIND DIRN. SPD.		CLOUD (amt) TYPE WEATHER		BOTTOM DEPTH		STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(mb)			(deg)	(m/s)		(m)					
865210.61 N	17	43.77 W	6	JUN	02	17	40															
REMARKS Prood																						
SBE 9+ 09P 26778-0656																						
PRESS SN 86531																						
PRI TEMP SN 1771																						
SEC TEMP SN 1772																						
PRI COND SN 2272																						
SEC COND SN 2251																						
POS. TRIP DEPTH																						
1	14																					
2	1																					
3	1																					
4	1																					
5	1																					
6	1																					
7	14																					
8																						
9																						
10																						
11																						
12																						

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VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION							
RV Alpha Helix		H X 2 5 9				5AY16							
CONSC CAST #	LATITUDE	LONGITUDE	DATE-JD=	TIME (GMT)	DRY BULB	WET BULB	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
875305.23	16 09 16.68W	16 09 16.68W	17 JUN 02	2040								1028	
SBE 9+ 09P 26778-0656		TIMES		JD/TIME		DATA LOCATION		REMARKS					
PRESS SN	8 6 5 3 1	DATA ON				Tape/Diskette ID		File Name/Header					
PRI TEMP SN	1771	START DOWN											
SEC TEMP SN	1772	AT DEPTH											
PRI COND SN	2272	AT SURFACE											
SEC COND SN	2251	PAR SN _ 4 4 9 7		FLUOR SN _ 0 2 1 8 2		CHLAM SN		TRANS. SN _ csl241dr					
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SALINITY		SAL.		NUTR.		CHL. PAM Other	
1	500	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY			87-1		1			
2	150									3			
3	50												
4	25												
5	25												
6	25												
7	25												
8	10									9			
9	0												
10													
11													
12													

VESSEL RV Alpha Helix		PROJECT & LEG H X 2 5 9				DSDB I.D.		STATION DESIGNATION SAY 14													
CONSC CAST #	LATITUDE		LONGITUDE		DATE - JD =		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID				
885200.19N	16	922.70W	7	UIN 02202												864					
SBE 9+ 08P 26778-0656		TIMES		JD/TIME		DATA LOCATION															
PRESS SN 8 6 5 3 1		DATA ON				Tape/Diskette ID															
PRI TEMP SN 1771		START DOWN																			
SEC TEMP SN 1772		AT DEPTH																			
PRI COND SN 2272		AT SURFACE				<input type="checkbox"/> Cleaned air bleed valve MAX. DEPTH = m															
SEC COND SN 2251		PAR SN 4 4 9 7		FLUOR SN 0 2 1 8 2		CHLAM SN		TRANS. SN_cst241dr													
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAMPLE BOTTLE DATA										SAL.	NUTR.	CHL.	PAM	Other
1	500																				
2	150																				
3	50																				
4	25																				
5	10																				
6	0																				
7																					
8																					
9																					
10																					
11																					
12																					

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VESSEL		PROJECT & LEG		DSD8 I.D.		STATION DESIGNATION						
RV Alpha Helix		H X 2 5 9				SAY 12						
CONSC CAST #	LATITUDE	LONGITUDE	DATE-JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
895254.82	16925.44	W	7 JUN 02	2321							453	
SBE 9+ 09P 26778-0556		JD/TIME		DATA LOCATION		REMARKS						
TIMES		Tape/Diskette ID		File Name/Header								
PRESS SN 8 6 5 3 1		DATA ON										
PRI TEMP SN 1771		START DOWN										
SEC TEMP SN 1772		AT DEPTH										
PRI COND SN 2272		AT SURFACE										
SEC COND SN 2251		PAR SN 4 4 9 7		FLUOR SN 0 2 1 8 2		CHLAM SN		TRANS. SN cst241dr				
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER						
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	NUTR.	CHL.	PAM	Other	
1	430						89-1	1				
2	150											
3	50											
4	25											
5	10											
6	0											
7												
8												
9												
10												
11												
12												

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Counts

VESSEL RV Alpha Helix		PROJECT & LEG H X 2 5 9		DSDB I.D.		STATION DESIGNATION SAY10											
CONSC CAST #	LATITUDE		LONGITUDE		DATE-JD=		TIME (GMT)		WET BULB (°C)	SEA STATE PRESSURE (mb)	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR									MIN
905249	42N	16928	11W	8	JUN	020	152								252		
REMARKS Prod																	
DATA LOCATION Tape/Diskette ID																	
Cleaned air bleed valve																	
MAX. DEPTH = m																	
TRANS. SN _ csi241dr																	
SAMPLE BOTTLE NUMBER																	
CTD CONVERTED MONITOR VALUES																	
POS.	TRIP DEPTH	PAR SN _ 4 4 9 7		FLUOR SN _ 0 2 1 8 2		CHLAM SN		SAMPLE BOTTLE DATA		SALINITY		SAL.		NUTR.	CHL.	PAM	Other
1	240													1	✓		
2	150													3	✓		
3	50													✓			✓
4	25																
5	15																
6	215																✓
7	95																✓
8	15																✓
9	10																✓
10	0																✓
11																	
12																	

2°-10° high / too fast → 2° thermocline
(200-235m) 20

Set

VESSEL RV Alpha Helix		PROJECT & LEG H X 2 5 9		DSDB I.D.		STATION DESIGNATION 5AY02																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE-JD=		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
915228.17		N 16921.97W		16921.97		JUN 02		1700		17.0		17.0		1013.0		1013.0		1013.0		1013.0		1013.0		1013.0		1013.0		1013.0		1013.0	
SBE 9+ 09P 2678-0656		TIMES		JD/TIME		DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS		Cleaned air bleed valve		MAX. DEPTH =		m		TRANS. SN. _cst241dr		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		PAM Other	
PRESS SN 8 6 5 3 1		DATA ON		START DOWN		AT DEPTH		AT SURFACE		PAR SN _ 4 4 9 7		FLUOR SN _ 0 2 1 8 2		CHLAM SN _		SAMPLE BOTTLE DATA		SALINITY		SALINITY		SALINITY		SAL.		NUTR.		CHL.		PAM Other	
POS. TRIP DEPTH		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SALINITY		SAL.		NUTR.		CHL.		PAM Other		SAL.		NUTR.		CHL.		PAM Other			
1 500		2 2150		3 150		4 50		5 25		6 10		7 0		8 0		9 0		10 0		11		12		91-4		4		7		✓	

21
25
10

Spring current at depth

150 → 145

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION																	
RV Alpha Helix		H X 2 5 9				5AY04																	
CONSC	CASE #	LATITUDE		LONGITUDE		DATE-JD=		TIME (GMT)		DRY BULB	WET BULB	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID				
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)			(deg)	(m/s)			(m)					
9	25	23	4	2	1	6	9	2	5	0	3	W	8	J	U	N	0	2	1	8	2	7	
SBE 9+ 09P.26778-0856		TIMES		JD/TIME		DATA LOCATION		REMARKS															
PRESS SN 8 6 5 3 1		DATA ON				Tape/Diskette ID		File Name/Header															
PRI TEMP SN 1771		START DOWN																					
SEC TEMP SN 1772		AT DEPTH																					
PRI COND SN 2272		AT SURFACE																					
SEC COND SN 2251																							
PAR SN 4 4 9 7		FLUOR SN 0 2 1 8 2		CHLAM SN																			
CTD CONVERTED MONITOR VALUES																							
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAL.		NUTR.		CHL.		PAM		Other	
1	500																						
2	150																						
3	50																						
4	25																						
5	10																						
6	0																						
7																							
8																							
9																							
10																							
11																							
12																							

20

[illegible]

VESSEL RV Alpha Helix		PROJECT & LEG H X 2 5 9		DSDB I.D.		STATION DESIGNATION SAYO8													
CONSC CAST #	LATITUDE		LONGITUDE		DATE-JD=	TIME (GMT)	WET BULB	DRY BULB	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID					
945243.80N	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	(m)				
16931.04W	16	9	3	1	04	W	8	JUN	02	12	26								
SBE 9+ 09P.26778-0656		TIMES		JD/TIME		DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS							
PRESS SN	8 6 5 3 1		DATA ON																
PRI TEMP SN	1771		START DOWN																
SEC TEMP SN	1772		AT DEPTH																
PRI COND SN	2272		AT SURFACE																
SEC COND SN	2251		PAR SN		4 4 9 7		FLUOR SN		0 2 1 8 2		CHLAM SN								
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAL.		NUTR.	CHL.	PAM	Other
1	229													94-1		1			
2	100																		
3	50															3			
4	25																		
5	10																		
6	0																		
7																			
8																			
9																			
10																			
11																			
12																			

160
161

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION				
RV Alpha Helix		H X 2 5 9								SAY ID				
CONSC	LATITUDE	LONGITUDE		DATE - JD =		TIME (GMT)		WET BULB	DRY BULB	WIND DIRN.	WIND SPD.	WEATHER	BOTTOM DEPTH	STA. NAME/ID
CAST #	DEG MIN	DEG MIN	DEG MIN	DAY	MO	YR	HR	MIN	SEC	(deg)	(m/s)	(m)		
955249.41	N	16928.09	W	8	JUN	02	23	26					252	
SBE 9+ 08P.26778-0856		TIMES		JD/TIME		DATA LOCATION		REMARKS						
PRESS SN	8 6 5 3 1	DATA ON		Tape/Diskette ID		File Name/Header								
PRI TEMP SN	1771	START DOWN												
SEC TEMP SN	1772	AT DEPTH												
PRI COND SN	2272	AT SURFACE												
SEC COND SN	2251													
POS.	TRIP DEPTH	PAR SN		FLUOR SN		CHLAM SN		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER				
		4 4 9 7		0 2 1 8 2										
		CTD CONVERTED MONITOR VALUES												
		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL.		NUTR.	CHL.	PAM
1	150											1		
2	50											2		
3	25													
4	10													
5	0											5		
6														
7														
8														
9														
10														
11														
12														

VESSEL						PROJECT & LEG							DSDB I.D.								STATION DESIGNATION																		
RV Alpha Helix						H X 2 5 9															SAXOS																		
CONSC CAST #		LATITUDE			LONGITUDE			DATE JD=			TIME (GMT)			DRY BULB		WET BULB		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID							
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(m/s)	*	*	(deg)	(m/s)	*	*	(m)																
9606252	.54	N	16937	.57	W	9	JUN	02	00	45								
SBF 9+ 09P 26778-0656			TIMES			JD/TIME			DATA LOCATION																			REMARKS											
PRESS SN 8 6 5 3 1			DATA ON						Tape/Diskette ID																			File Name/Header											
PRI TEMP SN 1771			START DOWN																																				
SEC TEMP SN 1772			AT DEPTH																									<input type="checkbox"/> Cleaned air bleed valve											
PRI COND SN 2272			AT SURFACE																									MAX. DEPTH = m											
SEC COND SN 2251			<input type="checkbox"/> PAR S/N _ 4 4 9 7			<input type="checkbox"/> FLUOR S/N _ 0 2 1 8 2			<input type="checkbox"/> CHLAM S/N _																						<input type="checkbox"/> TRANS. S/N _ cst241dr								
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																																					
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA		SAL. NUTR. CHL. PAM Other																															
1	76							761 ✓																															
2	50							✓																															
3	25							✓																															
4	10							✓																															
5	0							5 ✓																															
6																																							
7																																							
8																																							
9																																							
10																																							
11																																							
12																																							

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION								
RV Alpha Helix		H X 2 5 9				5A-X-04								
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	WET BULB	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	(°C)		(deg)	(m/s)	*	(m)	
97525	1	75	16	53	2	5	2002	10					164	
SBE 9+ O9P 26778-0656		TIMES		JD/TIME		DATA LOCATION		REMARKS						
PRESS SN	8 6 5 3 1		DATA ON		Tape/Diskette ID		File Name/Header							
PRI TEMP SN	1771		START DOWN											
SEC TEMP SN	1772		AT DEPTH											
PRI COND SN	2272		AT SURFACE						Cleared air bleed valve					
SEC COND SN	2251		PAR SN _ 4 4 9 7		FLUOR SN _ 0 2 1 8 2		CHLAM SN _		MAX. DEPTH = m					
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.	SEC. TEMP.	SALINITY		SALINITY		SAMPLE BOTTLE DATA		TRANS. SN _ cst241dr		SAMPLE BOTTLE NUMBER
1	1105													
2	50													
3	25													
4	10													
5	0													
6														
7														
8														
9														
10														
11														
12														

VESSEL				PROJECT & LEG				DSDB I.D.				STATION DESIGNATION															
RV Alpha Helix				H X 2 5 9								SA 203															
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		WIND DIRN.		WIND SPD.		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
		DEG MIN		DEG MIN		DAY MO YR		HR MIN		°C		°C		(mb)		* * *		(deg)		(m/s)		* * *		(m)			
985250.78N		16927.51W		9 JUN 02		0155																		241			
SBE 9+ 09P 26778-0656				TIMES				JD/TIME				DATA LOCATION				REMARKS											
PRESS SN 8 6 5 3 1				DATA ON				Tape/Diskette ID				File Name/Header															
PRI TEMP SN 1771				START DOWN																							
SEC TEMP SN 1772				AT DEPTH												Cleaned air bleed valve											
PRI COND SN 2272				AT SURFACE												MAX. DEPTH = m											
SEC COND SN 2251				PAR SN _ 4 4 9 7				FLUOR SN _ 0 2 1 8 2				CHLAM SN _				TRANS. SN _ cst241dr											
POS. TRIP DEPTH				CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER															
				PRESSURE				PRI. TEMP.				SEC. TEMP				SALINITY				SAL. NUTR. CHL. PAM Other							
1 230																											
2 150																											
3 50																											
4 25																											
5 10																											
6 0																											
7																											
8																											
9																											
10																											
11																											
12																											

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