

T2-T, high 3-140m  
 only for ~ 5m  
 Unrak

VESSEL		PROJECT & LEG		STATION DESIGNATION	
RV Alpha Helix		H X 2 5 9		UMY08	
CONSC	LATITUDE	LONGITUDE		DATE-JD=	TIME
CAST #	DEG MIN	DEG MIN	DEG MIN	DAY MO YR	HR MIN
1015338.09N	16745.79W	10JUN02	1810		
SBE 9+09P.26778-0656	TIMES		JD/TIME	DATA LOCATION	
PRESS SN 86531	DATA ON			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 4497		FLUOR SN 02182	CHLAM SN	TRANS. SN csl241dr
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY
1	493				
2	150				
3	50				
4	25				
5	10				
6	0				
7	0				
8	0				
9	0				
10					
11					
12					

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION	
RV Alpha Helix		H X 2 5 9				6 MAY 07	
CONSC CAST #	LATITUDE	LONGITUDE	DATE-JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)
1085332-66	N 16 39.94 W	10 J U N 0 2	19 22				
SBE 01 CIP 26778-0656	TIMES	JDTIME	DATA LOCATION				
PRESS SN B 6 5 3 1	DATA ON		File Name/Header				
PRI TEMP SN 1771	START DOWN		Tape/Diskette ID				
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					
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER
1	131						
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				JUNY 05	
CONSC	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	WET BULB	WIND DIRN.	WIND SPD.
CAST #	DEG MIN	DEG MIN	DAY MO YR	HR MIN	WET BULB	DIRN.	SPD.
10453223	3.5 N	116745.65 W	10 JUN 02	0108			
SEB 9+ 09P 26778-0656							
PRESS SN	DATA ON	DATA LOCATION	File Name/Header				
PRI TEMP SN	1771						
SEC TEMP SN	1772						
PRI COND SN	2272						
SEC COND SN	2251						
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAL.	NUTR.
1	7.5					1	✓
2	25					2	✓
3	10					3	✓
4	0					4	✓
5							
6							
7							
8							
9							
10							
11							
12							

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VESSEL RV Alpha Helix			PROJECT & LEG H X 2 5 9			DSDB I.D.			STATION DESIGNATION 4M YOI													
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		
1025307	19N	16755.93W	10	2356																		
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																				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA												SAL.	NUTR.	CHL.	PAM	Other
1	81																	108	1	✓		
2	20																		2	✓		
3	20																					
4	20																					
5	20																					
6	0																			✓		
7																						
8																						
9																						
10																						
11																						
12																						





VESSEL RV Alpha Helix						PROJECT & LEG H X 2 5 9							DSDB I.D.								STATION DESIGNATION <i>UNY15</i>						
CONSC CAST #	LATITUDE		LONGITUDE			DATE JD=			TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) TYPE * *	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID					
	DEG	MIN	SEC	MIN	DEG	DAY	MO	YR	HR	MIN																	
1105416.15	N	16	44	.80w	E	20	JUN	02	19	15	.	.	.	.	.	.	.	.	.	.	9d						
SBE 9+ OBP 26778-0656																						REMARKS <i>Prod</i>					
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																									
1	0	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA																					
2	0																										
3	0																										
4	0																										
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

VESSEL RV Alpha Helix		PROJECT & LEG H X 2 5 9		DSDB I.D.		STATION DESIGNATION UNY06																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)		WET BULB (°C)		PRESSURE (mb)		SEA STATE VISIBILITY		WIND DIRN. (deg)		WIND SPD. (m/s)		CLOUD (amt) TYPE		WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID			
1	1115	40	59	16	40	7	65	W	12	J	U	N	0	23	09																
SBE 9+ 09P 26778-0656																															
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																			
CTD CONVERTED MONITOR VALUES																															
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAMPLE BOTTLE DATA		SAL.		NUTR.		CHL.		PAM		Other											
1	65																														
2	26																														
3	20																														
4	20																														
5	20																														
6	10																														
7	0																														
8																															
9																															
10																															
11																															
12																															

Red

Cleaned air bleed valve

MAX. DEPTH = m

TRANS. SN \_cs241dr

SAMPLE BOTTLE NUMBER

02

2

1

7

VESSEL		PROJECT & LEG				DSD8 I.D.				STATION DESIGNATION								
RV Alpha Helix		H X 2 5 9								UNY08								
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	(m)		(m)		
1125408.23	N	16416.67	W	18	JUN	02	23	59								77		
SBE 9+ 09P 26778-0656																		
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						
CTD CONVERTED MONITOR VALUES																		
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA												
						SALINITY	SAL.	NUTR.	CHL.	PAM	Other							
1	70						112	1										
2	25							2										
3	10																	
4	0							4										
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Ret

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VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION									
RV Alpha Helix		H X 2 5 9								UNY14									
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		
115415.34N	16441.09W	16441	09W	JUN 02												92			
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 _ cs241dr											
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																	
		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SALINITY		SAL.		NUTR.	CHL.	PAM	Other
1	85													115		1			
2	50															3			
3	25															5			
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								110416									
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											
11654	17.42	N	164	49.82	W	13	JUN	02	03	12								62	
SBE 9+ 09P.26778-0856		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 9 7		FLUOR SN _ 0 2 1 8 2		CHLAM SN													
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																	
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA													
1	60					SALINITY													
2	25					SALINITY													
3	10					SALINITY													
4	0					SALINITY													
5						SALINITY													
6						SALINITY													
7						SALINITY													
8						SALINITY													
9						SALINITY													
10						SALINITY													
11						SALINITY													
12						SALINITY													



VESSEL		PROJECT & LEG				DSDB I.D.		STATION DESIGNATION											
RV Alpha Helix		H X 2 5 9						UN418											
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB °C	WIND DIRN. (deg)	WIND SPD. (m/s)	WIND DIRN. (deg)	WIND SPD. (m/s)	SEA STATE	PRESSURE (mb)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR											
1175419.81	N	16457.84	W	13	JUN	02	0343												
SBE 9+ 09P.26778-0656																			
PRESS SN		8 6 5 3 1																	
PRI TEMP SN		1771																	
SEC TEMP SN		1772																	
PRI COND SN		2272																	
SEC COND SN		2251																	
TRIP DEPTH																			
POS.																			
1		70																	
2		50																	
3		25																	
4		10																	
5		0																	
6																			
7																			
8																			
9																			
10																			
11																			
12																			
CTD CONVERTED MONITOR VALUES																			
PAR SN		4 4 9 7				FLUOR SN				0 2 1 8 2				CHLAM SN					
DATA																			
SALINITY																			
SEC. TEMP																			
PRI. TEMP.																			
PRESSURE																			
SALINITY																			
SAL.		117																	
NUTR.		1																	
CHL.		1																	
PAM		1																	
Other																			
SAMPLE BOTTLE NUMBER																			
TRANS. SN		cs241dr																	
CLEANED air bleed valve		<input type="checkbox"/>																	
MAX. DEPTH =		m																	
REMARKS																			
DATA LOCATION																			
File Name/Header																			
Tape/Diskette ID																			

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION							
RV Alpha Helix		H X 2 5 9								1N72D							
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB		WIND DIRN.		WIND SPD.		STATION NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(deg)	(m/s)	(m)			
1185402.09	N	16	50	6	33	W	13	JUN	02	04	31						
REMARKS																	
DATA LOCATION																	
Tape/Diskette ID																	
File Name/Header																	
Cleaned air bleed valve																	
MAX. DEPTH = m																	
TRANS. SN. _cs241dr																	
SAMPLE BOTTLE NUMBER																	
CTD CONVERTED MONITOR VALUES																	
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.		PAM	
1	135											118		1			
2	50													3			
3	25																
4	10													5			
5	0																
6																	
7																	
8																	
9																	
10																	
11																	
12																	

150  
80

VESSEL	PROJECT & LEG								STATION DESIGNATION																																					
RV Alpha Helix	H X 2 5 9								UNYaa																																					
D.SDB I.D.																																														
CONC 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																	
1195424.38 N	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	°C	°C	(mb)	*	*	* * *	* * *	(m/s)	(m)	16.5																											
SBE 9+09P-26778-0656	TIMES	JD/TIME	DATA LOCATION															REMARKS																												
PRESS SN 86531	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 _ cs241dr																																							
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES															SAMPLE BOTTLE DATA															SAMPLE BOTTLE NUMBER														
1	160	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY																SALINITY																SAL.	NUTR.	CHL.	PAM	Other					
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								44704																
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					
1	20	54	26	68	N	16	52	20	08	08							146									
SBE 9+ 08P. 26778-0656																										
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																									
POS.	TRIP	DEPTH	CTD CONVERTED MONITOR VALUES																SAMPLE BOTTLE DATA				TRANS. SN _ csi241dr			
1	144		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY													SAL.	NUTR.	CHL.	PAM	Other			
2	50																		100	1						
3	25																			3						
4	10																			5						
5	0																									
6																										
7																										
8																										
9																										
10																										
11																										
12																										

[illegible]

[illegible]

VESSEL						PROJECT & LEG								STATION DESIGNATION																		
RV Alpha Helix						H X 2 5 9								ALCY 16																		
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		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)										
1	23	05	79	N	166	18	30	W	13	JUN	02	16	04																			
SBE 9+ 09P.26778-0656																																
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																											
CTD CONVERTED MONITOR VALUES																																
POS.	TRIP	DEPTH			PRESSURE		PRI. TEMP.		SEC. TEMP		SALINITY		SALINITY		SAMPLE BOTTLE DATA		TRANS. SN _ cs1241dr		MAX. DEPTH = m		CLEANED AIR BLEED VALVE		REMARKS									
1	84																				<input type="checkbox"/>		2013									
2	0																				<input type="checkbox"/>											
3																					<input type="checkbox"/>											
4																					<input type="checkbox"/>											
5																					<input type="checkbox"/>											
6																					<input type="checkbox"/>											
7																					<input type="checkbox"/>											
8																					<input type="checkbox"/>											
9																					<input type="checkbox"/>											
10																					<input type="checkbox"/>											
11																					<input type="checkbox"/>											
12																					<input type="checkbox"/>											

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION														
RV Alpha Helix		H X 2 5 9																		
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO												YR	HR	MIN
12454	05.75	N	166.18	09	W	13	JUN	02	17	01										
SBE 9+ C/P 26778-0658																				
PRESS SN	8 5 3 1		DATA ON		TIMES		JD/TIME		DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS					
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 _ 4 4 9 7		FLUOR SN _ 0 2 1 8 2		CHLAM SN		TRANS. SN _ cs241dr		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER					
					CTD CONVERTED MONITOR VALUES															
1			85		PRESSURE		PRI TEMP.		SEC. TEMP		SALINITY		SALINITY		SAL.		NUTR.	CHL.	PAM	Other
2			0												124		2	✓		
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				



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[illegible]

[illegible]

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION									
RV Alpha Helix		H X 2 5 9								116416									
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	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)	
1285405	75	N	166	18	13	JUN	02	10	23										
SBE 9+ 09P.26778-0658		TIMES		JD/TIME		DATA LOCATION													
PRESS SN 8 6 5 3 1		DATA ON				File Name/Header													
PRI TEMP SN 1771		START DOWN				Tape/Diskette ID													
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		CTD CONVERTED MONITOR VALUES																	
DEPTH		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAL		NUTR.	CHL.	PAM	Other
1	83													183		1			
2	0															2			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

REMARKS 7 of 13

☐ Cleaned air bleed valve

MAX. DEPTH = m

☐ TRANS. SN \_cs1241dr

SAMPLE BOTTLE NUMBER

VESSEL		PROJECT & LEG				DS08 I.D.		STATION DESIGNATION													
RV Alpha Helix		H X 2 5 9						AKY16													
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				
129	54	05.67	N	166	18.18	W	3	JUN	02	2002						88					
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 _ cs1241dr													
POS.	TRIP DEPTH	SAMPLE BOTTLE DATA																			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY											SAL.	NUTR.	CHL.	PAM	Other
1	84																				
2	0																				
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION							
RV Alpha Helix		H X 2 5 9								Aleg 16							
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 TYPE	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO											
1305405.69	N	16618.2	W	3	JUN	02	23	01								89	
SBE 9+ OBP. 26778-0656		JD/TIME		TIMES		DATA LOCATION											
PRESS SN 86531		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											
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES															
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAMPLE BOTTLE DATA											
1 84																	
2 0																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION	
RV Alpha Helix		H X 2 5 9				4/25/16	
CONSC	LATITUDE	LONGITUDE		DATE JD=		TIME	WET BULB
CAST #	DEG MIN	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(GMT)	BULB (°C)
13	54 05.71 N	166 18.26 W	13 JUN 02	00 02			
SBE 9+ 08P-26778-0656		JD/TIME		DATA LOCATION		REMARKS	
PRESS SN 8 6 5 3 1		DATA ON		Tape/Diskette ID		100f13	
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		MAX. DEPTH = m	
CHLAM SN		CTD CONVERTED MONITOR VALUES		TRANS. SN_cst241dr			
POS.	TRIP DEPTH	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAL.	NUTR. CHL. PAM Other
1	86					1	-
2	0					2	-
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

Call Combs

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION											
RV Alpha Helix		H X 2 5 9								AKY116											
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)					
1325405.73	N	16618.25	W	14	JUN	02	01	02								89					
SBE 9+09P.28778-0656		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																			
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.		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER															
TRIP DEPTH		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.		CHL.		PAM		Other	
1	85											13.1		1		1		1		1	
2	0													2		2		2		2	
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Counts



[illegible]

[illegible]

[illegible]

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION							
RV Alpha Helix		H X 2 5 9								HY 16							
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)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO											
1365405.72	N	16618.21	W	14	JUN	02	0523									89	
REMARKS 15 of 13																	
DATA LOCATION																	
File Name/Header																	
Tape/Diskette ID																	
Cleansed air bleed valve																	
MAX. DEPTH = m																	
TRANS. SN _cs241dr																	
SAMPLE BOTTLE NUMBER																	
CTD CONVERTED MONITOR VALUES																	
PAR SN _ 4 4 9 7		FLUOR SN _ 0 2 1 8 2		CHLAM SN													
PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY											
TRIP DEPTH		SALINITY		SALINITY													
1 84																	
2 0																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION													
RV Alpha Helix		H X 2 5 9				H16Y16													
CONSCAST #	LATITUDE		LONGITUDE		DATE -JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
137	54	05.746N	116	18.99W	4	JUN	02	06	02								90		
SBE 9+ 09P-26778-0656																			
PRESS SN		8 6 5 3 1		DATA ON		REMARKS													
PRI TEMP SN		1771		START DOWN		100 + (16)													
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		TRANS. SN _ 08241dr									
CTD CONVERTED MONITOR VALUES																			
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.	CHL.	PAM	Other		
1	85																		
2	0																		
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION														
RV Alpha Helix		H X 2 5 9				AKY19														
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)		
1385409.25	N 16630.55	W 15	JUN	02	15													938		
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																		
SEC COND SN 2251		PAR SN _ 4 4 9 7		FLUOR SN _ 0 2 1 8 2		CHLAM SN														
TRIP DEPTH		CTD CONVERTED MONITOR VALUES																		
POS.		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA														
1	500					SAL. NUTR. CHL. PAM Other														
2	150					1 1														
3	45					138 4 1 1														
4	25					6														
5	10																			
6	0																			
7	0																			
8	0																			
9	0																			
10																				
11																				
12																				

50 at 45



[illegible]



VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION							
RV Alpha Helix		H X 2 5 9								116413							
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)		(deg)	(m/s)	*	*	(m)	
1415402.25	N	116605.82	W	15	JUN	02	00	45								58	
REMARKS																	
2202																	
DATA LOCATION																	
File Name/Header																	
Tape/Diskette ID																	
Cleaned air bleed valve																	
MAX. DEPTH = m																	
TRANS. SN. cs241dr																	
SAMPLE BOTTLE NUMBER																	
DATA																	
SALINITY																	
SAL.																	
NUTR.																	
CHL.																	
PAM																	
Other																	
CTD CONVERTED MONITOR VALUES																	
FLUOR SN. 0 2 1 8 2																	
CHLAM SN.																	
PAR SN. 4 4 9 7																	
PRESSURE																	
PRI. TEMP.																	
SEC. TEMP.																	
SALINITY																	
TRIP DEPTH																	
1	48																
2	26																
3	10																
4	0																
5	0																
6	0																
7	0																
8																	
9																	
10																	
11																	
12																	

[illegible]

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION												
RV Alpha Helix		H X 2 5 9								RKY09												
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	
1	143	52	57	58	N	166	49	39	W	16	JUN	02	02	43				78				
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																
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																				
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA												SAL.	NUTR.	CHL.	PAM	Other
1	74																	143	1	-		
2	50																		3	-		
3	25																			-		
4	10																		5	-		
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								12507								
CONSC CAST #	LATITUDE		LONGITUDE		DATE-JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR										MIN
1	14	53	56	31	N	16	54	09	7	W	16	J	U	N	0	2	02	34
SBE 9+ 09P.26778-0656																		
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	CTD CONVERTED MONITOR VALUES																
		PAR SN _ 4 4 9 7		FLUOR SN _ 0 2 1 8 2		CHLAM SN		SAMPLE BOTTLE DATA										
		PRESSURE	PRI. TEMP.	SEC. TEMP.		SALINITY		SALINITY										
1	95																	
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								AKY05								
CONSC CAST #	LATITUDE		LONGITUDE		DATE-JD=		TIME (GMT)		WET BULB (°C)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER TYPE	BOTTOM DEPTH (m)	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR									MIN	(mb)
145	53.02	N	165.32	W	16	JUN	02	04	35						97			
SBE 9+ 09P 26778-0656																		
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							
CTD CONVERTED MONITOR VALUES																		
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER				
1	92													SAL.	NUTR.	CHL.	PAM	Other
2	50													145				
3	25													2	3			
4	10														5			
5	0																	
6																		
7																		
8																		
9																		
10																		
11																		
12																		

VESSEL						PROJECT & LEG								DSDB I.D.							STATION DESIGNATION											
RV Alpha Helix						HX 259															AKY03											
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 TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID							
	DEG	MIN			DEG	MIN			DAY	MO	HR	MIN																				
1416	53	50	.6	N	165	24	.28	W	6	JUN	02	05	29	.	.									98								
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																<input type="checkbox"/> Cleaned air bleed valve											
PRI COND SN	2272				AT SURFACE																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 _ cs241dr			
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	95																							140	1	-						
2	50																									-						
3	25																								3	-						
4	10																								5	-						
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								A-12Y01									
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
147	53	48.36	N	165	15.96	W	16	JUN	02	06	29								
REMARKS																			
SBF 9+ 09P-26778-0656																			
PRESS SN 8 6 5 3 1																			
PRI TEMP SN 1771																			
SEC TEMP SN 1772																			
PRI COND SN 2272																			
SEC COND SN 2251																			
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																	
		PAR SN _ 4 4 9 7		FLUOR SN _ 0 2 1 8 2		CHLAM SN		SAMPLE BOTTLE DATA											
		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL. NUTR. CHL. PAM Other									
1	118									1									
2	50									3									
3	25									147 4									
4	10									5									
5	0																		
6	0																		
7	0																		
8	0																		
9																			
10																			
11																			
12																			

VESSEL RV Alpha Helix		PROJECT & LEG H X 2 5 9		DSDB I.D.		STATION DESIGNATION AKY01																									
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)	(m)	(m/s)	(deg)	(m/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)			
14	25	34	48	02	29	N	16	51	6	29	W	1	6	29	W	1	6	29	W	1	6	29	W	1	6	29	W	1	6	29	
SBE 9+ 09P 2678-0656		TIMES		JD/TIME		DATA ON		START DOWN		AT DEPTH		AT SURFACE		PAR SN		FLUOR SN		CHLOR SN		TRANS. SN		SAMPLE BOTTLE DATA		SAL.		NUTR.		CHL.		PAM Other	
PRESS SN 8 6 5 3 1		PRI TEMP SN 1771		SEC TEMP SN 1772		PRI COND SN 2272		SEC COND SN 2251		PAR SN 4 4 9 7		FLUOR SN 0 2 1 8 2		CHLOR SN		TRANS. SN cst241dr		SAMPLE BOTTLE DATA		SAL.		NUTR.		CHL.		PAM Other					
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY	
1	0																														
2	0																														
3	0																														
4	0																														
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

REMARKS  
1 rod.☐ Cleaned air bleed valve

MAX. DEPTH = m





VESSEL RV Alpha Helix		PROJECT & LEG H X 2 5 9				DSD8 I.D.				STATION DESIGNATION 122x06							
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)	PRESSURE	(deg)	(m/s)		(m)	
150	54	25.59	N	165	38.26	W	7	JUN	02	13	7						
SBE 9+ OSP 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 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						SALINITY	SAL	NUTR.	CHL	PAM	Other	
1	0.00																
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	