

Vofex V2 V6 Par

Cast 1 is Res 2.5, near Seward

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION												
Alpha Helix		HX220								SBE10												
CONSC CAST #	DEG	MIN	LATITUDE	DEG	MIN	LONGITUDE	DATE	JD=	TIME (GMT)	HR	MIN	SEC	WET BULB (°C)	DRY BULB (°C)	WET BULB (°C)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
25525.12N	164	19.73W	20	MAY	1999																1025	SBE10
SBE 9+4		TIMES				JD/TIME				DATA LOCATION				REMARKS								
PRESS SN	#	DATA ON					Tape/Diskette ID				File Name/Header											
PRI TEMP SN	1771	START DOWN																				
SEC TEMP SN	1772	AT DEPTH																				
PRI COND SN	2251	AT SURFACE																				
SEC COND SN	501																					
TRIP DEPTH		CTD CONVERTED MONITOR VALUES				FLUOR SN				CHAM SN				TRANS. SN								
POS.		SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER				SAL.				WHIT'S NUTR.								
1	98	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY																	
2	75																					
3	50																					
4	40																					
5	30																					
6	20																					
7	10																					
8	5																					
9	0																					
10																						
11																						
12																						

Plant -
CO2 Counts

✓ ✓ ✓ ✓

2000-2001 2002-2003 2004-2005 2006-2007 2008-2009 2010-2011 2012-2013 2014-2015 2016-2017 2018-2019 2020-2021 2022-2023 2024-2025 2026-2027 2028-2029 2030-2031 2032-2033 2034-2035 2036-2037 2038-2039 2040-2041 2042-2043 2044-2045 2046-2047 2048-2049 2050-2051 2052-2053 2054-2055 2056-2057 2058-2059 2060-2061 2062-2063 2064-2065 2066-2067 2068-2069 2070-2071 2072-2073 2074-2075 2076-2077 2078-2079 2080-2081 2082-2083 2084-2085 2086-2087 2088-2089 2090-2091 2092-2093 2094-2095 2096-2097 2098-2099 2100-2101 2102-2103 2104-2105 2106-2107 2108-2109 2110-2111 2112-2113 2114-2115 2116-2117 2118-2119 2120-2121 2122-2123 2124-2125 2126-2127 2128-2129 2130-2131 2132-2133 2134-2135 2136-2137 2138-2139 2140-2141 2142-2143 2144-2145 2146-2147 2148-2149 2150-2151 2152-2153 2154-2155 2156-2157 2158-2159 2160-2161 2162-2163 2164-2165 2166-2167 2168-2169 2170-2171 2172-2173 2174-2175 2176-2177 2178-2179 2180-2181 2182-2183 2184-2185 2186-2187 2188-2189 2190-2191 2192-2193 2194-2195 2196-2197 2198-2199 2200-2201 2202-2203 2204-2205 2206-2207 2208-2209 2210-2211 2212-2213 2214-2215 2216-2217 2218-2219 2220-2221 2222-2223 2224-2225 2226-2227 2228-2229 2230-2231 2232-2233 2234-2235 2236-2237 2238-2239 2240-2241 2242-2243 2244-2245 2246-2247 2248-2249 2250-2251 2252-2253 2254-2255 2256-2257 2258-2259 2260-2261 2262-2263 2264-2265 2266-2267 2268-2269 2270-2271 2272-2273 2274-2275 2276-2277 2278-2279 2280-2281 2282-2283 2284-2285 2286-2287 2288-2289 2290-2291 2292-2293 2294-2295 2296-2297 2298-2299 2300-2301 2302-2303 2304-2305 2306-2307 2308-2309 2310-2311 2312-2313 2314-2315 2316-2317 2318-2319 2320-2321 2322-2323 2324-2325 2326-2327 2328-2329 2330-2331 2332-2333 2334-2335 2336-2337 2338-2339 2340-2341 2342-2343 2344-2345 2346-2347 2348-2349 2350-2351 2352-2353 2354-2355 2356-2357 2358-2359 2360-2361 2362-2363 2364-2365 2366-2367 2368-2369 2370-2371 2372-2373 2374-2375 2376-2377 2378-2379 2380-2381 2382-2383 2384-2385 2386-2387 2388-2389 2390-2391 2392-2393 2394-2395 2396-2397 2398-2399 2400-2401 2402-2403 2404-2405 2406-2407 2408-2409 2410-2411 2412-2413 2414-2415 2416-2417 2418-2419 2420-2421 2422-2423 2424-2425 2426-2427 2428-2429 2430-2431 2432-2433 2434-2435 2436-2437 2438-2439 2440-2441 2442-2443 2444-2445 2446-2447 2448-2449 2450-2451 2452-2453 2454-2455 2456-2457 2458-2459 2460-2461 2462-2463 2464-2465 2466-2467 2468-2469 2470-2471 2472-2473 2474-2475 2476-2477 2478-2479 2480-2481 2482-2483 2484-2485 2486-2487 2488-2489 2490-2491 2492-2493 2494-2495 2496-2497 2498-2499 2500-2501 2502-2503 2504-2505 2506-2507 2508-2509 2510-2511 2512-2513 2514-2515 2516-2517 2518-2519 2520-2521 2522-2523 2524-2525 2526-2527 2528-2529 2530-2531 2532-2533 2534-2535 2536-2537 2538-2539 2540-2541 2542-2543 2544-2545 2546-2547 2548-2549 2550-2551 2552-2553 2554-2555 2556-2557 2558-2559 2560-2561 2562-2563 2564-2565 2566-2567 2568-2569 2570-2571 2572-2573 2574-2575 2576-2577 2578-2579 2580-2581 2582-258

[illegible]

Start SB grid

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION	
Alpha Helix		HX220				SBE 10	
CONSC	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)	WET BULB
CAST #	DEG MIN	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)
5525.05N	10419.74	10419.74	10419.74	W 20 MAY 99	2146		
SBE 9+4	TIMES		JD/TIME		DATA LOCATION		
PRESS SN # 63503	DATA ON				File Name/Header		
PRI TEMP SN 1771	START DOWN						
SEC TEMP SN 1772	AT DEPTH						
PRI COND SN 2251	AT SURFACE						
SEC COND SN 501	PAR SN		FLUOR SN		Chlam SN		
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
1	98	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAL.	WHIT'S
2						005	NUTR.
3						01	
4							
5							
6							
7							
8							
9							
10							
11							
12							

feline ~50m, 10 3.5 to 2.5

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION													
Alpha Helix		HX220				58E8													
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	
65520.20N	144	15	7	1	W	20	M	A	Y	9	9	2	2	3	1		98	58E8	
SBE 9+8	TIMES		JD/TIME		DATA LOCATION		REMARKS												
PRESS SN # 63503	DATA ON				Tape/Diskette ID		File Name/Header												
PRI TEMP SN 1771	START DOWN																		
SEC TEMP SN 1772	AT DEPTH																		
PRI COND SN 2251	AT SURFACE																		
SEC COND SN 501	PAR SN		FLUOR SN		CHAM SN		TRANS. SN												
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SALINITY		SALINITY		SAL.		Bio		CHL.		WHIT'S NUTR.	
1		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY													
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

no samples

50m 3.4 2.7

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION							
Alpha Helix		HX220								SBE 6							
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)	(mb)	(deg)	(m/s)	(m)			
75515.27	N	16.4	11.7	0	M	A	Y	9	23	15					75	SBE 6	
SBE 9+3		TIMES		JD/TIME		DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS					
PRESS SN #	63503		DATA ON														
PRI TEMP SN	1771		START DOWN														
SEC TEMP SN	1772		AT DEPTH														
PRI COND SN	2251		AT SURFACE														
SEC COND SN	501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN								
POS.	TRIP	DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SALINITY		SAL.		Bio		CHL.		WHIT'S NUTR.	
1	71																
2	50																
3	40																
4	30																
5	20																
6	10																
7	0																
8																	
9																	
10																	
11																	
12																	

10-30m 3.4 3.1
slow

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION													
Alpha Helix		HX220				SBE 3													
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	
85512	28.8	6N	124	9.8	5	20	MA	Y 99	23	46							64	SBE5	
SBE 9+3	TIMES		JD/TIME		DATA LOCATION		REMARKS												
PRESS SN # 63503	DATA ON				Tape/Diskette ID		File Name/Header												
PRI TEMP SN 1771	START DOWN						Cleared air bleed valve												
SEC TEMP SN 1772	AT DEPTH						MAX. DEPTH = m												
PRI COND SN 2251	AT SURFACE																		
SEC COND SN 501	PAR SN		FLUOR SN		CHAM SN		TRANS. SN												
POS. TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER														
1	60	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL	Bio	CHL	WHIT's									
2							008	01											
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

5-25mm 3.5 to 3.2

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION											
Alpha Helix		HX220				SBE4											
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
95510.40N	164	7.76W	21	MAY	99	0013										54	SBE4
SBE 9+3		TIMES		JD/TIME		DATA LOCATION		REMARKS									
PRESS SN # 63503		DATA ON				Tape/Diskette ID		File Name/Header									
PRI TEMP SN 1771		START DOWN															
SEC TEMP SN 1772		AT DEPTH															
PRI COND SN 2251		AT SURFACE															
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN									
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER											
1	51	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY		SAL.	Bio	CHL.	WHIT's	NUTR.					
2	40																
3	30																
4	20																
5	10																
6	0																
7																	
8																	
9																	
10																	
11																	
12																	

5-10m 3.6 to 3.3

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION	
Alpha Helix		HX220				58E2	
CONSC. CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)
DEG MIN	DEG MIN	DEG MIN	DAY	MO	YR	HR	MIN
1 055	5 54 N	164 3 8	21	MAY	99	00	53
SRE 9+3		TIMES		JD/TIME		DATA LOCATION	
PRESS SN # 63503		DATA ON		Tape/Diskette ID		File Name/Header	
PRI TEMP SN 1771		START DOWN					
SEC TEMP SN 1772		AT DEPTH					
PRI COND SN 2251		AT SURFACE					
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN	
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL. Bio Chl. WHIT's NUTR.
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

> 5 SK 3.6 by 10

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION											
Alpha Helix		HX220				SBE1											
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	
1155	3.09N	116.4	11.82W	2	MAY	99	0124								30	5861	
SBE 9+3		TIMES		JD/TIME		DATA LOCATION		REMARKS									
PRESS SN # 63503		DATA ON				Tape/Diskette ID		File Name/Header									
PRI TEMP SN 1771		START DOWN															
SEC TEMP SN 1772		AT DEPTH															
PRI COND SN 2251		AT SURFACE															
SEC COND SN 501		PAR SN		FLUOR SN		CHLOR SN		TRANS. SN									
POS. TRIP DEPTH		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		WHIT'S NUTR.	
1	26																
2	20																
3	10																
4	0																
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

VESSEL		PROJECT & LEG		DSD8 I.D.		STATION DESIGNATION											
Alpha Helix		HX220				5801											
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	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	(m)		
1255	4	46	N	163	56	74	W	21	M	A	Y	9	9	0	15	6	5801
SBE 9+3		TIMES		JD/TIME		DATA LOCATION		REMARKS									
PRESS SN # 63503		DATA ON				Tape/Diskette ID		File Name/Header									
PRI TEMP SN 1771		START DOWN															
SEC TEMP SN 1772		AT DEPTH															
PRI COND SN 2251		AT SURFACE															
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN									
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		Bio		CHL.		WHIT's NUTR.			
1 22		PRESSURE		PRI. TEMP.		SEC. TEMP		SALINITY		SALINITY		SAL.		CHL.		WHIT's NUTR.	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

[illegible]

VESSEL						PROJECT & LEG							DSDB I.D.								STATION DESIGNATION								
Alpha Helix						HX220															5804								
CONSC CAST #	LATITUDE			LONGITUDE			DATE JD=			TIME (GMT)			DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER TYPE	BOTTOM DEPTH	STA. NAME/ID						
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN		(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	* * *	(m)								
145511.80N	164	2.86W	2	MAY	99	0253	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	51	S304				
SBE 9+ 4	TIMES			JD/TIME			DATA LOCATION																REMARKS						
PRESS SN # 63503	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 2251	AT SURFACE																									MAX. DEPTH = m			
SEC COND SN 501	<input type="checkbox"/>			PAR SN			<input type="checkbox"/>			FLUOR SN			<input type="checkbox"/>			CHAM SN			<input type="checkbox"/>			TRANS. SN							
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																					SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY																		SALINITY	SAL.	Bio	CHL.	WHIT'S NUTR.		
1																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

[illegible]

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION								
Alpha Helix		HX220				5206								
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	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	* * *	(m)	
11	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
16	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
17	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
18	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
19	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
20	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
21	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
22	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
23	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
24	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
25	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
26	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
27	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
28	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
29	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
30	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
31	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
32	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
33	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
34	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
35	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
36	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
37	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
38	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
39	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
40	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
41	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
42	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
43	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
44	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
45	55	16	4	6	5	7	2	1	MA	Y	9	9	03	37
46	55	16	4	6	5	7	2	1</						

VESSEL						PROJECT & LEG							DSDB I.D.								STATION DESIGNATION								
Alpha Helix						HX220															SB08								
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																		
175521	54	N		104	05	9W	21	MAY	99	04	16		.	.									96	SB08					
SBE 9+ 8	TIMES	JD/TIME	DATA LOCATION										REMARKS																
PRESS SN # 63503	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 2251	AT SURFACE _____												MAX. DEPTH = m																
SEC COND SN 501	<input checked="" type="checkbox"/> PAR SN _____	<input type="checkbox"/> FLUOR SN _____	<input type="checkbox"/> CHAM SN _____											<input type="checkbox"/> TRANS. SN _____															
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER															
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY							SALINITY	SAL.	Bio	CHL.	WHIT'S NUTR.													
1																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

[illegible]

VESSEL		PROJECT & LEG.				DSDB I.D.				STATION DESIGNATION											
Alpha Helix		HX220								53C11											
CONSC CAST #	DEG	MIN	LATITUDE	DEG	MIN	LONGITUDE	DATE JD=	DAY	MO	YR	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER TYPE	BOTTOM DEPTH (m)	STA. NAME/ID
195530	18	N	16411.36	W	21	0532	MAY 99	0532												9943C11	
SBE 9+4		TIMES		JD/TIME		DATA LOCATION		REMARKS													
PRESS SN # 63503		DATA ON				Tape/Diskette ID		File Name/Header													
PRI TEMP SN 1771		START DOWN																			
SEC TEMP SN 1772		AT DEPTH																			
PRI COND SN 2251		AT SURFACE																			
SEC COND SN 501		PAR SN		FLUOR SN		CHLOR SN		TRANS. SN													
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		WHIT'S NUTR.					
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY						SALINITY		SAL.	Bio	CHL.						
1	95																				
2	75																				
3	50																				
4	40																				
5	30																				
6	20																				
7	10																				
8	0																				
9																					
10																					
11																					
12																					

Zed
chl.1
1
1
1

135

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION						
Alpha Helix		HX220				SBC 99						
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
215525.36 N	164 7.29 W	1164 7.29 W	21 MAY 99	0648							9.7	53809
SBE 9+3		TIMES		JD/TIME		DATA LOCATION		REMARKS				
PRESS SN # 63503	DATA ON		Tape/Diskette ID		File Name/Header							
PRI TEMP SN 1771	START DOWN											
SEC TEMP SN 1772	AT DEPTH											
PRI COND SN 2251	AT SURFACE											
SEC COND SN 501	PAR SN		FLUOR SN		CHAM SN		TRANS. SN		MAX. DEPTH = 93 m			
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER						
1	93	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	Bio	CHL.	WHIT'S	NUTR.	
2	50										48	
3	40										47	
4	30										46	
5	20										45	
6	10										44	
7	0										43	
8											42	
9												
10												
11												
12												

93
91Z 20
20

1 1 1 1

542

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION										
Alpha Helix		HX220				51308										
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	WIND DIRN. (deg)	WIND SPD. (m/s)	SEA STATE	WIND TYPE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
225522.91 N	16405.26 W	21 MAY 99	0724												96	51308
SBE 9+8		TIMES		JD/TIME		DATA LOCATION		REMARKS								
PRESS SN # 63503		DATA ON				Tape/Diskette ID		File Name/Header								
PRI TEMP SN 1771		START DOWN														
SEC TEMP SN 1772		AT DEPTH														
PRI COND SN 2251		AT SURFACE														
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN								
MAX. DEPTH = 92 m																
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER										
1	92	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	Bio	CHL.	WHIT'S NUTR.						
2	50															
3	40															
4	30															
5	20															
6	10															
7	0															
8																
9																
10																
11																
12																

149

VESSEL		PROJECT & LEG		DSD8 I.D.		STATION DESIGNATION										
Alpha Helix		HX220				5BC7										
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB	WET BULB	WIND DIRN.	WIND SPD.	WIND TYPE	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
235520.50 N	16403.21 W	21 MAY 99	0801												81	5307
SBE 9+4		TIMES		JD/TIME		DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS				
PRESS SN	# 63503	DATA ON														
PRI TEMP SN	1771	START DOWN														
SEC TEMP SN	1772	AT DEPTH														
PRI COND SN	2251	AT SURFACE														
SEC COND SN	501	PAR SN		FLUOR SN		CHAM SN		TRANS. SN		MAX. DEPTH = 80 m						
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		Bio		CHL.		WHIT's NUTR.		
1	80	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY										
2	50															
3	40															
4	30															
5	20															
6	10															
7	0															
8																
9																
10																
11																
12																

Zee
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156

[illegible]

VESSEL		PROJECT & LEG		DSD8 I.D.		STATION DESIGNATION						
Alpha Helix		HY220				51305						
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	WIND DIRN. (deg)	WIND SPD. (m/s)	SEA STATE PRESSURE (mb)	WEATHER TYPE	BOTTOM DEPTH (m)	STA. NAME/ID
25	51.50N	163.59W	1 MAY 99	0925							60	51305
SBE 9+2		TIMES		JD/TIME		DATA LOCATION		REMARKS				
PRESS SN # 63503		DATA ON				Tape/Diskette ID		File Name/Header				
PRI TEMP SN 1771		START DOWN										
SEC TEMP SN 1772		AT DEPTH										
PRI COND SN 2251		AT SURFACE										
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN				
CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SALINITY		SALINITY		SAL.		Bio		CHL.
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	Bio	CHL.	WHIT'S NUTR.		
1	54											
2	40											
3	30											
4	20											
5	10											
6	0											
7												
8												
9												
10												
11												
12												

Zee
chl.✓
✓
✓
✓

VESSEL		PROJECT & LEG				DSD8 I.D.				STATION DESIGNATION								
Alpha Helix		HX220								58C4								
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	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)		(deg)	(m/s)		(m)	
26513.06	N	16	35	7.39	W	21	M	A	Y	99	09	56					55	58C4
SBE 9+8	TIMES		JD/TIME		REMARKS													
PRESS SN # 63503	DATA ON				Tape/Diskette ID				File Name/Header									
PRI TEMP SN 1771	START DOWN																	
SEC TEMP SN 1772	AT DEPTH																	
PRI COND SN 2251	AT SURFACE																	
SEC COND SN 501	PAR SN		FLUOR SN		CHAM SN				TRANS. SN									
POS.	TRIP DEPTH		CTD CONVERTED MONITOR VALUES															
			PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
1	50														SAL. Bio CHL. WHIT'S NUTR.			
2	30														80 79 78 77 776			
3	20																	
4	10																	
5	0																	
6																		
7																		
8																		
9																		
10																		
11																		
12																		

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION											
Alpha Helix		HX220				38C3											
CONSC CAST #	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
27	51	0.61	N	163	55.43	W	21	MAY	99	1023						45	38C3
SBE 9+3		TIMES		JD/TIME		DATA LOCATION		REMARKS									
PRESS SN # 63503		DATA ON				Tape/Diskette ID		File Name/Header									
PRI TEMP SN 1771		START DOWN															
SEC TEMP SN 1772		AT DEPTH															
PRI COND SN 2251		AT SURFACE															
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN									
CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER													
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL	Bio	CHL	WHIT'S							
1	40																
2	30																
3	20																
4	10																
5	0																
6																	
7																	
8																	
9																	
10																	
11																	
12																	

181

987

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION								
Alpha Helix		HX220				58C1								
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)	WET BULB	DRY BULB	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER TYPE	BOTTOM DEPTH	STA. NAME/ID
295505.75N	16351.49W	21	11	17	11	17	11	17	11	17	11	17	29	58C1
SBE 9+1		TIMES		JD/TIME		DATA LOCATION		REMARKS						
PRESS SN # 63503		DATA ON				Tape/Diskette ID		File Name/Header						
PRI TEMP SN 1771		START DOWN												
SEC TEMP SN 1772		AT DEPTH												
PRI COND SN 2251		AT SURFACE												
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN						
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		Bio		CHL.		WHIT'S NUTR.
1	25	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY								92
2	10													91
3	0													90
4														
5														
6														
7														
8														
9														
10														
11														
12														

240
chd.
0?
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302

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION						
Alpha Helix		HX220								5332						
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	WIND DIRN.	WIND SPD.	WIND TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(deg)	(m/s)		(m)	
315519.60	N	16348.22	W	21	M	A	Y	9	12	12					42	5332
SBE 9+3		TIMES		JD/TIME		DATA LOCATION										
PRESS SN # 63503		DATA ON				Tape/Diskette ID		File Name/Header								
PRI TEMP SN 1771		START DOWN														
SEC TEMP SN 1772		AT DEPTH														
PRI COND SN 2251		AT SURFACE														
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN								
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER										
1	38	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	Bio	CHL.	WHT's						
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

39
40

[illegible]

[illegible]

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION								
Alpha Helix		HX220								SABLO								
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	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)		(deg)	(m/s)		(m)	
3455	19	36	N	16356	30	W	21	M	A	Y	99	13	42				69	SABLO
SBE 9+2	TIMES		JD/TIME		DATA ON		Tape/Diskette ID		DATA LOCATION		File Name/Header		REMARKS					
PRESS SN	# 63503																	
PRI TEMP SN	1771																	
SEC TEMP SN	1772																	
PRI COND SN	2251																	
SEC COND SN	501																	
POS.	TRIP DEPTH	PAR SN		FLUOR SN		CHAM SN		TRANS. SN		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		Bio	CHL.	WHIT'S NUTR.
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Jelly

66
67

107

OR see
upcast
(shear)
11 TDS

Jelly in cast

Use 2

Cleaned air bleed valve

MAX. DEPTH = m

VESSEL		PROJECT & LEG		DSD B.I.D.		STATION DESIGNATION	
Alpha Helix		HX220				5338	
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)
	DEG	MIN	DEG	MIN	DAY	MO	YR
355524.119	N	164	00	35	W	1	42
SBE 9+1		TIMES		JD/TIME		DATA LOCATION	
PRESS SN # 63503		DATA ON		Tape/Diskette ID		File Name/Header	
PRI TEMP SN 1771		START DOWN					
SEC TEMP SN 1772		AT DEPTH					
PRI COND SN 2251		AT SURFACE					
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN	
POS.		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
TRIP DEPTH							
1		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAL.	CHL.
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

VESSEL			PROJECT & LEG			DSDB I.D.			STATION DESIGNATION							
Alpha Helix			HX220						5380							
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	
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)			(m)		
365529.07	N 164 4 .38	W 171 172	MAY 99	1505										9658810		
SBE 9+1	TIMES	JD/TIME	DATA LOCATION													
PRESS SN # 63503	DATA ON		File Name/Header													
PRI TEMP SN 1771	START DOWN															
SEC TEMP SN 1772	AT DEPTH															
PRI COND SN 2251	AT SURFACE		<input type="checkbox"/> Cleaned air bleed valve													
SEC COND SN 501	PAR SN	FLUOR SN	CHAM SN	MAX. DEPTH = m												
POS.	TRIP DEPTH	SAMPLE BOTTLE DATA														
		SALINITY														
1	92	SAL. 636 921														
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

VESSEL			PROJECT & LEG			DSDB I.D.			STATION DESIGNATION													
Alpha Helix			HX220						53A10													
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB (°C)	DRY 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		
375530.151	N	16359.26	W	21	M	A	Y	9	15	36								94	53A10			
SBE 9+8		TIMES		JD/TIME		DATA LOCATION																
PRESS SN # 63503		DATA ON				Tape/Diskette ID		File Name/Header														
PRI TEMP SN 1771		START DOWN																				
SEC TEMP SN 1772		AT DEPTH																				
PRI COND SN 2251		AT SURFACE																				
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN										TRANS. SN						
CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA																				
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY														SAL.	Bio	CHL.	WHIT'S NUTR.
1	88																					100
2	75																					99
3	50																					92
4	40																					97
5	30																					96
6	20																					95
7	10																					94
8	0																					93
9																						
10																						
11																						
12																						

[illegible]

VESSEL		PROJECT & LEG				DSDB I.D.		STATION DESIGNATION								
Alpha Helix		HX220						3BA6								
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	SEA STATE PRESSURE (mb)	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
395520.77N	16351.13W	21 MAY 1997	1703												72	3BA6
SBE 9+4		TIMES		JD/TIME		DATA LOCATION		REMARKS								
PRESS SN # 63503		DATA ON				Tape/Diskette ID		File Name/Header								
PRI TEMP SN 1771		START DOWN														
SEC TEMP SN 1772		AT DEPTH														
PRI COND SN 2251		AT SURFACE														
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN								
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES														
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA	SAL.	Bio	CHL.	WHIT'S NUTR.						
1	67															
2	40															
3	30															
4	20															
5	10															
6	0															
7																
8																
9																
10																
11																
12																

VESSEL		PROJECT & LEG		DSD8 I.D.		STATION DESIGNATION									
Alpha Helix		HX220				53A5									
CONSCAST #	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 YR	HR MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	* * *		(m)	
4105	18.137 N	163.49.11 W	16 MAY 99	1730	.	.								666	53A5
SBE 9+2	TIMES	JDTIME	REMARKS												
PRESS SN # 63503	DATA ON _____	Tape/Diskette ID	File Name/Header												
PRI TEMP SN 1771	START DOWN _____														
SEC TEMP SN 1772	AT DEPTH _____														
PRI COND SN 2251	AT SURFACE		<input type="checkbox"/> Cleaned air bleed valve												
SEC COND SN 501	<input type="checkbox"/> PAR SN _____	<input type="checkbox"/> FLUOR SN _____	<input type="checkbox"/> CHAM SN _____	TRANS. SN _____											
POS. TRIP DEPTH	CTD CONVERTED MONITOR VALUES														
	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA										
1					SALINITY										
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION											
Alpha Helix		HX220				3BA4											
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 TYPE	BOTTOM DEPTH (m)	STA. NAME/ID
4155	15	50	16	34	7	11	W2	11	17	54						57	6BA4
SBE 9+3		TIMES		JD/TIME		DATA LOCATION		REMARKS									
PRESS SN # 63503		DATA ON				Tape/Diskette ID		File Name/Header									
PRI TEMP SN 1771		START DOWN															
SEC TEMP SN 1772		AT DEPTH															
PRI COND SN 2251		AT SURFACE															
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN									
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES															
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER	SAL.	Bio	CHL.	WHIT's NUTR.					
1	54								041			112					
2	40								042		✓	111					
3	30								043			110					
4	20										✓	109					
5	10										✓	108					
6	0										✓	107					
7																	
8																	
9																	
10																	
11																	
12																	

ST isn't called
Slime Bank for
nothing!

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION																	
Alpha Helix		HX220								58A2																	
CONSC CAST #	DEG	MIN	LATITUDE		DEG	MIN	LONGITUDE		DATE	DAY	MO	YR	TIME (GMT)	HR	MIN	SEC	DRY BULB	WET BULB	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
4255	10	97	N	163	43	02	W	2	M	A	Y	99	18	36											42	58A2	
SBE 9+4		TIMES		JD/TIME		DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS															
PRESS SN	#	63503		DATA ON																							
PRI TEMP SN	1771			START DOWN																							
SEC TEMP SN	1772			AT DEPTH																							
PRI COND SN	2251			AT SURFACE																							
SEC COND SN	501			PAR SN				FLUOR SN				CHAM SN				TRANS. SN											
POS.	TRIP DEPTH			CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA				SALINITY				SALINITY											
1				PRESSURE				PRI. TEMP.				SEC. TEMP.				SALINITY											
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

40
42

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION					
Alpha Helix		HX220				33A1					
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	WET BULB	DRY BULB	WIND DIRN.	WIND SPD.	WEATHER	BOTTOM DEPTH	STA. NAME/ID
4355	8.48N	163.41E	12W21	1900						42	52A1
SBE 9+4		TIMES		JD/TIME		DATA LOCATION		REMARKS			
PRESS SN # 63503		DATA ON				Tape/Diskette ID		File Name/Header			
PRI TEMP SN 1771		START DOWN									
SEC TEMP SN 1772		AT DEPTH									
PRI COND SN 2251		AT SURFACE									
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN			
CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER							
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	Bio	CHL.	WHIT's NUTR.	
1	38										
2	20										
3	10										
4	0										
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION								
Alpha Helix		HX220								SBA3								
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	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)		(deg)	(m/s)		(m)		
44	55	13	45	N	10	3	4	4	9	7	W	2	1	M	A	Y	9	9
SBE 9+8																		
PRESS SN	# 63503	DATA ON																
PRI TEMP SN	1771	START DOWN																
SEC TEMP SN	1772	AT DEPTH																
PRI COND SN	2251	AT SURFACE																
SEC COND SN	501	PAR SN																
		FLUOR SN																
		CHAM SN																
		TRANS. SN																
POS.	TRIP DEPTH	SAMPLE BOTTLE DATA																
		SALINITY																
		SAL.																
		Bio																
		CHL.																
		WHIT'S NUTR.																
1	30																	
2	20																	
3	10																	
4	0																	
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

REMARKS

San John Roads

Cleaned air bleed valve

MAX. DEPTH = m

[illegible]

[illegible]

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION							
Alpha Helix		HX220				SBC1							
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
4855	5.86N	163.51W	19W 20 MAY 99	2147								29	
SBE 9+3		TIMES		JD/TIME		DATA LOCATION		REMARKS					
PRESS SN #	63503	DATA ON				Tape/Diskette ID		File Name/Header					
PRI TEMP SN	1771	START DOWN											
SEC TEMP SN	1772	AT DEPTH											
PRI COND SN	2251	AT SURFACE											
SEC COND SN	501	PAR SN		FLUOR SN		CHAM SN		TRANS. SN					
CTD CONVERTED MONITOR VALUES													
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		WHIT'S NUTR.			
1	10												
2	10												
3	10												
4	10												
5	0												
6	0												
7	0												
8	0												
9													
10													
11													
12													

23
23

[illegible]

VESSEL		PROJECT & LEG						DSDB I.D.								STATION DESIGNATION						
Alpha Helix		HX220														SBC						
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB (°C)	DRY 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	YR	HR												MIN		
50	55	51.90 N	163	50.9 W	MAY	99	22	13														
SBE 9+8	TIMES		JD/TIME		DATA LOCATION															REMARKS		
PRESS SN # 63503	DATA ON				Tape/Diskette ID															Rho's		
PRI TEMP SN 1771	START DOWN																			peod		
SEC TEMP SN 1772	AT DEPTH																			Cleaned air bleed valve		
PRI COND SN 2251	AT SURFACE																			MAX. DEPTH = m		
SEC COND SN 501	PAR SN		FLUOR SN		CHAM SN															TRANS. SN		
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																		SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER	
1	20	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY														SAL.	Bio	CHL.	WHIT'S NUTR.
2	20																					
3	13																					
4	13																					
5	9																					
6	9																					
7	5																					
8	5																					
9	3																					
10	3																					
11	0																					
12	0																					

30
36

VESSEL		PROJECT & LEG				DSDB I.D.		STATION DESIGNATION													
Alpha Helix		HX220						31332													
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD TYPE	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID			
5155	9.44	N 16.34	18.33	W 23	MA	Y 99	1405			14							40	31332			
SBE 9+8		TIMES		JD/TIME		DATA LOCATION															
PRESS SN # 63503		DATA ON				Tape/Diskette ID File Name/Header															
PRI TEMP SN 1771		START DOWN																			
SEC TEMP SN 1772		AT DEPTH																			
PRI COND SN 2251		AT SURFACE				<input type="checkbox"/> Cleaned air bleed valve MAX. DEPTH = m															
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN		SAMPLE BOTTLE NUMBER											
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES																			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA												SAL.	Bko	CHL.	WHIT'S NUTR.
1	30																				
2	30																				
3	30																				
4	30																				
5	0																				
6	0																				
7	0																				
8	0																				
9																					
10																					
11																					
12																					

REMARKS
Deck Pood

VESSEL		PROJECT & LEG		DSD8 I.D.		STATION DESIGNATION							
Alpha Helix		HX220				58C10							
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	SEA STATE PRESSURE (mb)	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
525527.72 N	164 9.46 W	23 MAY 99	2022									995310	
SBE 9+2	TIMES	JD/TIME	DATA LOCATION										
PRESS SN # 63503	DATA ON		File Name/Header										
PRI TEMP SN 1771	START DOWN		Tape/Diskette ID										
SEC TEMP SN 1772	AT DEPTH												
PRI COND SN 2251	AT SURFACE		Cleared air bleed valve										
SEC COND SN 501	PAR SN	FLUOR SN	CHAM SN	MAX. DEPTH = m									
TRANS. SN	SAMPLE BOTTLE NUMBER												
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES											
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	Bio	CHL.	WHIT'S NUTR.			
1	95												
2	60												
3	14	Cant Redone - NOT Used											
4	14												
5	14												
6	14												
7	0												
8	0												
9	0												
10	0												
11													
12													

94

no
Samples
except
95
#60

VESSEL		PROJECT & LEG				ID508 I.D.		STATION DESIGNATION											
Alpha Helix		HY220						5610											
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)	(mb)	(deg)	(m/s)	(m)					
525	27	75	16	40	9	3	MA	Y	9	2	22	2			9 1/2				
SBE 9+2		TIMES		JD/TIME		DATA LOCATION													
PRESS SN # 63503		DATA ON				Tape/Diskette ID		File Name/Header											
PRI TEMP SN 1771		START DOWN																	
SEC TEMP SN 1772		AT DEPTH																	
PRI COND SN 2251		AT SURFACE																	
SEC COND SN 501		PAR SN		FLUOR SN		CHAM SN		TRANS. SN											
CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA																	
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP		SALINITY		SALINITY		SAL.		BIO		CHL.		WHIT'S NUTR.	
1	15																		
2	15																		
3	15																		
4	15																		
5	0																		
6	0																		
7	0																		
8	0																		
9																			
10																			
11																			
12																			

Remarks
Dut Prood
new termination

Cleaned air bleed valve

MAX. DEPTH = m

[illegible]

[illegible]

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION												
Alpha Helix		HX220				PMEI												
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		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
565627-32 N	160	8	57 W	26 M A Y	99	00	24										22	PMEI
SBE 9+ 8	TIMES		JD/TIME		DATA LOCATION													
PRESS SN # 63503	DATA ON				File Name/Header													
PRI TEMP SN 1771	START DOWN																	
SEC TEMP SN 1772	AT DEPTH																	
PRI COND SN 2251	AT SURFACE																	
SEC COND SN 501	<input checked="" type="checkbox"/> PAR SN	<input checked="" type="checkbox"/> FLUOR SN	<input checked="" type="checkbox"/> CHAM SN	<input checked="" type="checkbox"/> TRANS SN														
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA												SAMPLE BOTTLE NUMBER
1	18																	
2	18																	
3	18																	
4	18																	
5	0																	
6	0																	
7	0																	
8	0																	
9	0 (5)																	
10																		
11																		
12																		

VESSEL		PROJECT & LEG		IDSD8 I.D.		STATION DESIGNATION								
Alpha Helix		HY220				17 m C1								
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	SEA STATE PRESSURE (mb)	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
57	17 15	177 10	17 10	17 10	17 10	17 10	17 10	17 10	17 10	17 10	17 10	17 10	17 10	
SBE 9+2	TIMES		JD/TIME	DATA LOCATION										
PRESS SN # 63503	DATA ON			Tape/Diskette ID File Name/Header										
PRI TEMP SN 1771	START DOWN													
SEC TEMP SN 1772	AT DEPTH													
PRI COND SN 2251	AT SURFACE													
SEC COND SN 501	PAR SN		FLUOR SN	CHAM SN	TRANS. SN									
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES												
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA							SAMPLE BOTTLE NUMBER	
1	15													
2	10													
3	5													
4	0													
5														
6														
7														
8														
9														
10														
11														
12														

Cleared air bleed valve

MAX. DEPTH = m

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION						
Alpha Helix		HX220								Pme1						
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
52	27.22	N	160.84	W	6 MAY	9 00	50								23	
REMARKS																
Rho's																
Good																
Cleared air bleed valve																
MAX. DEPTH = m																
TRANS. SN																
SAMPLE BOTTLE NUMBER																
SAL. Bto CHL. WHIT'S NUTR.																
SALINITY																
SEC. TEMP.																
PRI. TEMP.																
PRESSURE																
CTD CONVERTED MONITOR VALUES																
POS.	TRIP DEPTH	DATA														
1	18															
2	18															
3	11															
4	11															
5	8															
6	8															
7	5															
8	5															
9	3															
10	3															
11	0															
12	0															

5 knot PM Grid

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION	
Alpha Helix		HX220				PM 11	
CONSC	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	WET BULB	SEA STATE	WIND DIRN.
CAST #	DEG MIN	DEG MIN	DAY MO YR	HR MIN	°C	(mb)	(deg)
59	56 47.94 N	160 42.14 W	26 MAY 99	1527Z			
SSE 9:30		TIMES		JD/TIME	DATA LOCATION		
PRESS SN # 63503		DATA ON			Tape/Diskette ID File Name/Header		
PRI TEMP SN 1771		START DOWN					
SEC TEMP SN 1772		AT DEPTH					
PRI COND SN 2251		AT SURFACE					
SEC COND SN 501		PAR SN		FLUOR SN	CHAM SN	TRANS. SN	
TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
POS.		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAL.	CHL.
1	64						125
2	50						124
3	40						123
4	30						122
5	20						121
6	10						120
7	0						119
8							
9							
10							
11							
12							

Cleared air bleed valve

MAX. DEPTH = m