

VESSEL: NOAAS Surveyor		PROJECT & LEG: SU-95-03		INITIALS: CD		CHECKED BY:		PAGE 2 of									
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD=233		TIME (GMT)		WET BULB (°C)	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR								MIN	
002	54	24.8	N	165	07.7	W	21	AUG	9	5	15	10	09	09	08	002	
ATTACHMENTS: <u>CAST 2.DAT</u> FILENAME: <u>CAST 2.DAT</u> REMARKS (include alternate station designation if applicable): <u>new CTD depth: 119m</u> <u>line XVI, Station 94</u> <u>max depth 120 m the block of Unmanned Pass book</u>																	
CTD		LIGHT METER (N)		FLUOROMETER (N)		OTHER:		OTHER:									
TYPE & SN		93001		39443		845		693									
PRESS. SN																	
TEMP. SN																	
COND. SN																	
Position	#	Bot. #	T-Track	Depth	TIME@	Monitor Values				Sample Bottle Data		Sal. Bot. #	Nutrient	Chlor/ MZ	Other	Position	
						Press.	Temp.	Salinity	Cond.	Fluor.	ThermP						Avg. Tw
1	50	✓	151310	151825	52.240	7.393	32.000	3.2905		49.7	7.39	32.0456			/		1
2															/		2
3															/		3
4															/		4
5															/		5
6															/		6
7															/		7
8															/		8
9															/		9
10															/		10
11															/		11
12															/		12

[illegible]

VESSEL: NOAAS Surveyor
PROJECT & LEG: 54-95-03
INITIALS: CD
CHECKED BY:
PAGE 5 of

CONSECUTIVE	LATITUDE		LONGITUDE		DATE		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO														YR	
005	54	15.7	N	165	54.9	W	22	AUG	9	50	12	05	11	23	44	24	47	20	19	4	005

CTD
TYPE & SN 93001
PRESS. SN 39443
TEMP. SN 845
COND. SN 693

ATTACHMENTS:
LIGHT METER (N)
FLUOROMETER (N)
OTHER:
OTHER:

FILENAME: CAST5.DAT
REMARKS (include alternate station designation if applicable):
Line XV, Station 91 (next CTD depth: 62m)
(west side of Vinland) (returned for Dredge Hauler)

Position	#	Bot. #	Depth	TIME@	Monitor Values				Sample Bottle Data				Sal. Bot. #	Chlor/ MZ	Other	Position	
					Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.					
1				012514	62.063	6.831	32.340	3.2740					32.3614		/		1
2														/		2	
3														/		3	
4														/		4	
5														/		5	
6														/		6	
7														/		7	
8														/		8	
9														/		9	
10														/		10	
11														/		11	
12														/		12	

VESSEL: NOAA Surveyor				PROJECT & LEG: SU-95-03				INITIALS: CD				CHECKED BY:				PAGE 6 of																	
CONSECUTIVE CAST NUMBER		LATITUDE		LONGITUDE		DATE JD=234		TIME (GMT)		DRY BULB (°C)		WET BULB (°C)		BAR. (mb, integer)		SEA STATE (mb, integer)		VISIBILITY		WIND DIRECTION		WIND SPEED (kts)		CLOUD (amt)		WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID			
006	54	21	6	N	16	55	51	8	W	2	AUG	9	5	03	01	10	5	10	5	3	3	2	1	2	6	1	5	9	4	4	8	9	006
CTD				ATTACHMENTS:				FILENAME: CAST6.DAT				REMARKS (Include alternate station designation if applicable):																					
TYPE & SN				93001				LIGHT METER (V)																									
PRESS. SN				39443				FLUOROMETER (V)																									
TEMP. SN				845				OTHER:																									
COND. SN				693				OTHER:																									

[illegible][illegible]

VESSEL: NOAAS Surveyor						PROJECT & LEG: SU-95-03							INITIALS: NM CHECKED BY:								PAGE 9 of														
CONSECUTIVE CAST NUMBER		LATITUDE		LONGITUDE				DATE JD=234				TIME		DRY BULB (°C)		WET BULB (°C)		BAR (mb, integer)		SEA STATE (mb, integer)		VISIBILITY		WIND DIRECTION		WIND SPEED (kts)		CLOUD (amt)		TYPE WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID	
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	10.0	10.0	32.3	280	20	209	4	293	009																
009	54	11	3	N	166	14	9	W	22	AUG	95	07	09	12	0	11	23	4	25	2	4	7	2	0	9	/	4	2	9	3	009				
CTD		ATTACHMENTS:										FILENAME: CAST9.DAT																							
TYPE & SN		LIGHT METER (V)										REMARKS (include alternate station designation if applicable):																							
PRESS. SN		FLUOROMETER (V)																																	
TEMP. SN		OTHER:																																	
COND. SN		OTHER:																																	
93001																																			
39443																																			
845																																			
693																																			

TIME@		Monitor Values						Sample Bottle Data				Nutrient		Chlor/		Other		Position	
Bot. #	Trip	Depth	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.	Bot. #	Sal.	Bottle	MZ					
1	071055	259.105	3.664	33.536	3.1147					33.5549				/				1	
2														/				2	
3														/				3	
4														/				4	
5														/				5	
6														/				6	
7														/				7	
8														/				8	
9														/				9	
10														/				10	
11														/				11	
12														/				12	

[illegible]

VESSEL: <u>NOAAS Surveyor</u>				PROJECT & LEG: <u>54-96-03</u>				INITIALS: <u>NM</u> CHECKED BY: _____				PAGE <u>11</u> of <u> </u>			
-------------------------------	--	--	--	--------------------------------	--	--	--	---------------------------------------	--	--	--	-----------------------------	--	--	--

CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= 234			TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN												
0115448.4	N	16.551.3	W	22.009.5	09	27	10	10	3	10.0	32.3	5	250	10							
<div style="display: flex; justify-content: space-between;"> <div> CTD TYPE & SN <u>93001</u> PRESS. SN <u>39443</u> TEMP. SN <u>845</u> COND. SN <u>693</u> </div> <div> ATTACHMENTS: LIGHT METER (V) _____ FLUOROMETER (V) _____ OTHER: _____ OTHER: _____ </div> </div>																					

FILENAME: <u>CAS11.3AT</u> REMARKS (include alternate station designation if applicable): <u>Line XIV, Station 85</u> <u>max CTD depth 159 m</u> <u>north side of Vindex box</u>									
--	--	--	--	--	--	--	--	--	--

Position	#	Trip	Depth	TIME @	Monitor Values				Sample Bottle Data			Sal. Bot. #	Nutrient	Bottle #	Chlor/ MZ	Other	Position	
					Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw							Sal.
1				092816	138.776	4.152	33.026	3.1081				33.0452				/		1
2															/		2	
3															/		3	
4															/		4	
5															/		5	
6															/		6	
7															/		7	
8															/		8	
9															/		9	
10															/		10	
11															/		11	
12															/		12	

VESSEL: NOAA Surveyor				PROJECT & LEG: SU-95-03				INITIALS: NM				CHECKED BY:				PAGE 12 of						
CONSECUTIVE	CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= 234		TIME (GMT)		10.5 DRY BULB (°C)		10.0 WET BULB (°C)		BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
		DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN												
012	5452.0	N	165	40.3	W	22	AUG	95	1023	10.5	10.0	18.9	4	012								
CID				ATTACHMENTS:				FILENAME: CAST12.501														
TYPE & SN				LIGHT METER (N)				REMARKS (include alternate station designation if applicable):														
PRESS. SN				FLUOROMETER (N)				Line XIV, Station 84														
TEMP. SN				OTHER:				north side of V-shaped box														
COND. SN				OTHER:																		

Position	Bot. #	Trip	Depth	TIME @	Monitor Values				Sample Bottle Data				Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position	
					Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.						
1				103301	114.849	4.593	32.854	3.1301				112.5	4.60	32.8721		/		1
2															/		2	
3															/		3	
4															/		4	
5															/		5	
6															/		6	
7															/		7	
8															/		8	
9															/		9	
10															/		10	
11															/		11	
12															/		12	

VESSEL:	NOAAS Surveyor	PROJECT & LEG:	SU-95-03	INITIALS:	C.D.	CHECKED BY:									
CONSECUTIVE CAST NUMBER	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD=234	TIME (GMT)	DY BULB (° C)	WET BULB (° C)	BAR (mb integer)	SEA STATE (mbs integer)	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	0135455.7	N 16528.2	W 22AN695	1134	10.5	10.0	10.0	323	6240	159	4	133	013		
	ATTACHMENTS:														
	CTD														
	FILE NAME:	CAST 13.DAT													
	REMARKS (include alternate station designation if applicable):	Line XIV Station 83 north side of channel loop beyond buoy on Pukon bottle; no water sample;													
Type & SN	Light Meter (N)														
PRESS. SN	FLUOROMETER (N)														
TEMP. SN	OTHER:														
COND. SN	OTHER:														
Position	# Bot.	Trip Depth	TIME@	Monitor Values				Sample Bottle Data				Nutrient Bottle #	Chlor/MZ	Other	Position
				Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.				
1	112	113450	115.223	14.487	32.921	3.1268					/		1		
2											/		2		
3											/		3		
4											/		4		
5											/		5		
6											/		6		
7											/		7		
8											/		8		
9											/		9		
10											/		10		
11											/		11		
12											/		12		

[illegible]

VESSEL: NOAA Surveyor				PROJECT & LEG: 54-96-03				INITIALS: CD				CHECKED BY:				PAGE 14 of			
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD=234		TIME (GMT)		WET BULB (°C)	WIND SPEED (kts)	WIND DIRECTION	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR									MIN		
0145	45	9.2	N	165	17.2	W	22	A	10	3	10	3	1	3	15	113	014		
ATTACHMENTS:				FILENAME: CAST14.DAT				2-3 1-2											
TYPE & SN				LIGHT METER (N)				REMARKS (include alternate station designation if applicable):											
PRESS. SN				FLUOROMETER (N)				Line XIV, Station 82				Moody CTD depth: 107 m							
TEMP. SN				OTHER:				north side of Vinland Pass Rock											
COND. SN				OTHER:															

Position	#	Trip	Depth	TIME@	Monitor Values				Sample Bottle Data			Sal.	Nutrient	Bottle #	Chlor/	Other	Position
					Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw						
1			123740	12.713	8.497	32.374	3.4194					32.3876			/		1
2															/		2
3															/		3
4															/		4
5															/		5
6															/		6
7															/		7
8															/		8
9															/		9
10															/		10
11															/		11
12															/		12

VESSEL: NOAA Surveyor				PROJECT & LEG: 54-95-03				INITIALS: <u>CD</u>				CHECKED BY: _____				PAGE 15 of _____								
CONSECUTIVE CAST NUMBER	LATITUDE			LONGITUDE			DATE JD=			TIME (GMT)			WET BULB (°C)	DRY BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN	SEC												
015	55	02	9	N	165	06	0	W	22	AUG	95	13	39	10.5	10.4	31	3	6	26	01	6	9	109	015
ATTACHMENTS:												FILENAME: CAST 15.DAT 2334												
CTD												REMARKS (include alternate station designation if applicable):												
TYPE & SN 93001												Line XIII, Station 81												
PRESS. SN 39443												east side of Vinland loop												
TEMP. SN 845																								
COND. SN 693																								
LIGHT METER (V) _____																								
FLUOROMETER (V) _____																								
OTHER: _____																								
OTHER: _____																								

Position	#	Trip	Depth	TIME@	Monitor Values				Sample Bottle Data				Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
					Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.					
1		5		134234	5.486	9.095	32.355	3.467					32.3715		/		1
2															/		2
3															/		3
4															/		4
5															/		5
6															/		6
7															/		7
8															/		8
9															/		9
10															/		10
11															/		11
12															/		12

VESSEL: NOAA Surveyor		PROJECT & LEG: SU-95-03		INITIALS: CD		CHECKED BY:		PAGE 16 of																
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD=234		TIME (GMT)		WET BULB (°C)	DRY BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID					
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												MIN				
016	54	56.3	N	164	59.4	W	22	AUG	9	5	14	4	3	5	2	6	5	18	9	4	88	0116		
CTD		ATTACHMENTS:		FILENAME: CAST016.DAT		23-1-2																		
TYPE & SN	93001		LIGHT METER (N)																					
PRESS. SN	39443		FLUOROMETER (N)																					
TEMP. SN	845		OTHER:																					
COND. SN	693		OTHER:																					
#	Boat	Trip	Depth	TIME@	Monitor Values					Sample Bottle Data			Sal.	Bot. #	Nutrient	Bottle #	Chlor/	MZ	Other	Position				
					Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.												
1		35	14452		37.780	7.188	32.348	3.3044																
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

REMARKS (include alternate station designation if applicable):

line XIII, Station 80
east side of Vinson's loop
sampled caught 27 no salinity samples
* cassette tape recording
was started near end
of tape (~80 to end side)
distances to just may be
varies by 100

after this station, headed back to Ketchikan

VESSEL: NOAAS Surveyor				PROJECT & LEG: 54-95-03				INITIALS: <u>DD</u>				CHECKED BY: _____				PAGE 13 of 17					
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= 236		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	SEA STATE (mb, integer)	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												MIN	
0175	04	21.6	N	173	29	06	W	24	12	51	12	51	18	33	18	52	09	47	19	1017	
CTD				ATTACHMENTS:				FILENAME: <u>CAS117.DAT</u>													
TYPE & SN				LIGHT METER (V)				REMARKS (include alternate station designation if applicable):													
PRESS. SN				39443				FLUOROMETER (V)				Line I, Station 1									
TEMP. SN				845				OTHER:				data for water samples on VP17.DAT									
COND. SN				693				OTHER:				* only water for 23 min for the run									
Position	#	Bot. #	Depth	Track	TIME @				Monitor Values				Sample Bottle Data				Sal. Bot. #	Nutrient #	Chlor/ MZ	Other	Position
					Depth	Trip	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.							
1		3000	✓				3002.453	1.5124	34.6465	3.1324			* 2956.3	1.52	32.3596			/		1	
2		2500					2493.399	1.6198	34.6249	3.1206					34.3192			/		2	
3		2000					2007.019	1.7778	34.5934						34.5496			/		3	
4		1500	✓				1479.484	2.0824	34.5302				1463.0	2.07	34.6171			/		4	
5		700					700.702	3.0729	34.3012						34.6373			/		5	
6		0	✓				2.966	11.3495	32.3405				6.4	11.31	34.6443			/		6	
7																		/		7	
8																		/		8	
9																		/		9	
10																		/		10	
11																		/		11	
12																		/		12	

VESSEL: NOAAS Surveyor				PROJECT & LEG: 54-95-03				INITIALS: CO				CHECKED BY:				PAGE 18 of															
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD=2016		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR. (mb, integer)	SEA STATE (mb, integer)	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID											
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR													MIN										
0185	10	11	N	173	32	7	W	24	AUG	9	5	0	20	3	11	5	17	4	3	22	0	20	9	6	4	5	5	7	9	0	18
CTD				ATTACHMENTS:				FILENAME:				REMARKS (include alternate station designation if applicable):																			
TYPE & SN				LIGHT METER (N)								Line I, Station 2 THERMISTON BOTTLE #1 HUNG UP.; Looks like info. is still good																			
PRESS. SN				FLUOROMETER (N)																											
TEMP. SN				OTHER:																											
COND. SN				OTHER:																											

Position	#	Bot. Depth	Track	TIME @		Monitor Values				Sample Bottle Data		Sal. Bot. #	Nutrient #	Chlor/ MZ	Other	Position	
				Depth	Trip	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP						Avg. Tw
1	3000	✓	080325		3003.071	1.5007	34.6524			2955.5	1.49	34.6661			/		1
2	2500				2498.544	1.6181	34.6291					34.6431			/		2
3	2000				2000.746	1.7853	34.5963					34.6090			/		3
4	1500	✓	083450		1497.480	2.0500	34.5408			1484.0	2.06	34.5538			/		4
5	700				699.291	3.0421	34.3220					34.3348			/		5
6	0	✓	090410		3.571	10.9939	32.3440			7.7	10.97	32.3606			/		6
7															/		7
8															/		8
9															/		9
10															/		10
11															/		11
12															/		12

VESSEL: NOAA Surveyor						PROJECT & LEG: SL-95-03							INITIALS: CH CHECKED BY:								PAGE 19 of											
CONSECUTIVE CAST NUMBER		LATITUDE			LONGITUDE			DATE JD= 236			TIME (GMT)		DRY BULB (°C)		WET BULB (°C)		SEA STATE (mb, integer)		VISIBILITY		WIND DIRECTION		WIND SPEED (kts)		CLOUD (amt)		WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID	
		DEG	MIN	N	DEG	MIN	E	DAY	MO	YR	HR	MIN																				
0195	113.9	N	173	31.3	W	24	AUG	95	11	33	11.5	11.5	16	45	2	10	18	9	6	4	4	7	4	1	0	1	9					
CTD		ATTACHMENTS:														FILENAME:																
TYPE & SN		LIGHT METER (V)														REMARKS (include alternate station designation if applicable):																
PRESS. SN		FLUOROMETER (V)														Line I, Station 3																
TEMP. SN		OTHER:																														
COND. SN		OTHER:																														

VESSEL: NOAA Surveyor		PROJECT & LEG: SU-95-03		INITIALS: CH		CHECKED BY:		PAGE 20 of											
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= 236		TIME (GMT)		WET BULB (°C)	DRY BULB (°C)	SEA STATE (mb, integer)	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR											MIN
0205	128.0	N	173	32.2	W24	Aug	95	15	43	11.4	11.4	143	4	235	128	64	4743	020	
CTD		ATTACHMENTS:		FILENAME:		REMARKS (include alternate station designation if applicable):													
TYPE & SN		LIGHT METER (N)		FLUOROMETER (N)		Line I, Station 4													
PRESS. SN		39443		OTHER:		Computer froze, rebooted. Second file named CAST20-2													
TEMP. SN		845		OTHER:		third file named CAST20-3													
COND. SN		693		OTHER:															
Position	#	Bot. #	Depth	Track	TIME @				Monitor Values				Sample Bottle Data		Sal.	Nutrient	Chlor/	Other	Position
					Depth	Trip	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.					
1		3000	15	✓	1547	2999.924	1.5360	34.6512				2949.7	1.54	319823			/		1
2		2500	1556		1556	2499.907	1.6640	34.626						34.2834			/		2
3		2000	1606		1606	2000.015	1.8532	34.5887						34.5319			/		3
4		1500	1620	✓	1620	1499.253	2.1642	34.5223				1483.6	2.16	34.5974			/		4
5		700				700.480	3.2524	34.2745						34.6318			/		5
6		0		✓		5.083	11.0695	34.9724				3.1	11.06	34.6545			/		6
7																	/		7
8																	/		8
9																	/		9
10																	/		10
11																	/		11
12																	/		12

VESSEL: NOAA Surveyor				PROJECT & LEG: SU-95-03				INITIALS: CH				CHECKED BY:				PAGE 21 of						
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= 236				TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	BAR. (mb, integer)	SEA STATE (mb, integer)	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR													MIN	
0215	137.18	N	173.32	0	W	24	AUG	19	5	19	05	11	14	32	24	0	12	06	4	4	2	1
<div>CTD</div> <div> <div>TYPE & SN</div> <div>93001</div> </div> <div> <div>PRESS. SN</div> <div>39473</div> </div> <div> <div>TEMP. SN</div> <div>845</div> </div> <div> <div>COND. SN</div> <div>693</div> </div>																						
<div>ATTACHMENTS:</div> <div> <div>LIGHT METER (N)</div> <div>FLUOROMETER (N)</div> <div>OTHER:</div> <div>OTHER:</div> </div>																						
<div>FILENAME:</div> <div>Line I, Station 5</div>																						
<div>REMARKS (include alternate station designation if applicable):</div>																						

Position	#	Bot. #	Depth	Track	TIME @				Monitor Values				Sample Bottle Data				Sal.	Nutrient #	Chlor/ MZ	Other	Position
					Depth	Trip	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.	Bot. #						
1	3000	✓			3001.900	1.5641	34.6421						2952.0	1.60	31.8270			/		1	
2	2500				2499.895	1.6833	34.6233								34.2562			/		2	
3	2000				2000.094	1.9373	34.5754								34.5099			/		3	
4	1500	✓			1502.196	2.2669	34.5030						1486.0	2.27	34.5826			/		4	
5	700				701.981	3.3320	34.2496								34.6283			/		5	
6	0	✓			2.657	10.5943	31.8176						4.8	10.61	34.6552			/		6	
7																		/		7	
8																		/		8	
9																		/		9	
10																		/		10	
11																		/		11	
12																		/		12	

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

VESSEL: NOAAS Surveyor		PROJECT & LEG: 54-95-03		INITIALS: <u>CD</u>		CHECKED BY: _____		PAGE <u>30</u> of _____													
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO													YR	HR	MIN
0305	23	21.4	N	176	03	15	W	26	09	50	300	12	41	11	9	10	8	7	6	9	030
CTD		ATTACHMENTS:		FILENAME:		REMARKS (include alternate station designation if applicable):															
TYPE & SN		LIGHT METER (✓)		_____		Line II, Station 13															
PRESS. SN		39443		_____		there were some lg salinity spikes at the surface, so I															
TEMP. SN		845		_____		so started the cast => didn't restart the tape															
COND. SN		693		_____																	

Position	#	Bot. #	Track	Depth	TIME@	Monitor Values				Sample Bottle Data			Sal.	Nutrient Bottle #	Chlor/ MZ	Other	Position
						Depth	Trip	Press.	Temp.	Salinity	Cond.	Fluor.					
1		900				858.654	3.2106	34.2343	3.1599				34.2408		/		1
2															/		2
3															/		3
4															/		4
5															/		5
6															/		6
7															/		7
8															/		8
9															/		9
10															/		10
11															/		11
12															/		12

[illegible]

VESSEL: NOAAS Surveyor		PROJECT & LEG: SU-95-03		INITIALS: CH		CHECKED BY:		PAGE 33 of								
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= 238		TIME (GMT)		WET BULB (°C)	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR								MIN
2363	28.1	N	176.0	6.5	W	26	A	16	15	11.00	737	165	189	23760	33	
CTD		ATTACHMENTS:		FILENAME:		REMARKS (include alternate station designation if applicable):										
TYPE & SN		LIGHT METER (V)		FLUOROMETER (V)		Line II, Station 16										
PRESS. SN		39443		OTHER:												
TEMP. SN		845		OTHER:												
COND. SN		693		OTHER:												
Position	#	Bot. #	Depth	TIME @	Monitor Values				Sample Bottle Data		Sal. Bot. #	Nutrient #	Chlor/ MZ	Other	Position	
					Press.	Temp.	Salinity	Cond.	Fluor.	ThermP						Avg. Tw
1	1	135	✓		1498.396	2.3289	34.4793			1474.6	2.38	34.4865		/		1
2														/		2
3														/		3
4														/		4
5														/		5
6														/		6
7														/		7
8														/		8
9														/		9
10														/		10
11														/		11
12														/		12

VESSEL: NOAAS Surveyor		PROJECT & LEG: SU-95-03		INITIALS: CH		CHECKED BY:		PAGE 34 of								
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= 238		TIME (GMT)		WET BULB (°C)	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR								MIN
34	53	28.3	N	175	29.7	W	26	A	09	51	16	51	06	38	06	34
CTD		ATTACHMENTS:		FILENAME:		REMARKS (include alternate station designation if applicable):										
TYPE & SN		LIGHT METER (V)		FLUOROMETER (V)		Line III, Station 17										
PRESS. SN		39443		OTHER:												
TEMP. SN		845		OTHER:												
COND. SN		693		OTHER:												
Position	#	Bot. #	Depth	TIME @	Monitor Values				Sample Bottle Data		Sal. Bot. #	Nutrient #	Chlor/ MZ	Other	Position	
					Press.	Temp.	Salinity	Cond.	Fluor.	ThermP						Avg. Tw
1		800			800.093	3.1525	34.2538							/		1
2														/		2
3														/		3
4														/		4
5														/		5
6														/		6
7														/		7
8														/		8
9														/		9
10														/		10
11														/		11
12														/		12

[illegible]

VESSEL: NOAAS Surveyor		PROJECT & LEG: SU-95-03		INITIALS: CD		CHECKED BY:		PAGE 36 of																																		
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= 238		TIME (GMT)		WET BULB (°C)	DRY BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID																							
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												MIN																						
26	53	29	2	N	17	40	7	5	W	26	A	U	9	5	2	2	0	1	1	2	0	1	1	5	0	1	3	7	2	5	0	3	0	8	7	2	3	6	5	4	3	6
CTD		ATTACHMENTS:		FILENAME:		REMARKS (include alternate station designation if applicable):																																				
TYPE & SN		93001		LIGHT METER (V)																																						
PRESS. SN		39443		FLUOROMETER (V)																																						
TEMP. SN		845		OTHER:																																						
COND. SN		693		OTHER:																																						
LINE IV, Station 19																																										
Position	Bot. #	Trip	Depth	TIME @	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Bottle Data		Sal. Bot. #	Nutrient	Bottle #	Chlor/ MZ	Other	Position																							
1		000		779.309	3.1756	34.2409								34.2481			/		1																							
2																	/		2																							
3																	/		3																							
4																	/		4																							
5																	/		5																							
6																	/		6																							
7																	/		7																							
8																	/		8																							
9																	/		9																							
10																	/		10																							
11																	/		11																							
12																	/		12																							

[illegible]

[illegible]

[illegible]

VESSEL: NOAA Surveyor				PROJECT & LEG: SU-95-03				INITIALS: CH				CHECKED BY:				PAGE 42 of															
CONSECUTIVE CAST NUMBER		LATITUDE		LONGITUDE		DATE JD= 239		TIME (GMT)		DRY BULB (°C)		WET BULB (°C)		BAR (mb, integer)		SEA STATE		VISIBILITY		WIND DIRECTION		WIND SPEED (kts)		CLOUD (amt)		TYPE WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID	
		DEG	MIN	DEG	MIN	DAY	MO	YR	HR																						
425	27.5	N	174	06.6	W	27	A	6	9	5	12.0	11.0	11	4	7	25	0	25	0	6	2	12	03							42	
CTD				ATTACHMENTS:				FILENAME:				REMARKS (include alternate station designation if applicable): <i>Line IV, Station 23</i>																			
TYPE & SN				LIGHT METER (V)																											
PRESS. SN				FLUOROMETER (V)																											
TEMP. SN				OTHER:																											
COND. SN				OTHER:																											

[illegible]

[illegible]

VESSEL: NOAAS Surveyor		PROJECT & LEG: SU-95-03		INITIALS: CD		CHECKED BY:		PAGE 46 of 46												
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD=240		TIME (GMT)		WET BULB (°C)	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID					
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR								MIN				
0416	53	19.7	N	172	49.5	W	28	AUG	9	5	03	54	11	2	10	2	142	3	142	0416
ATTACHMENTS: CTD 20 TYPE & SN 93001 PRESS. SN 39443 TEMP. SN 845 COND. SN 693																				
FILENAME: 1-110 REMARKS (include alternate station designation if applicable): Line V, Station 27																				
TIME@		Monitor Values				Sample Bottle Data				Sal.	Bot. #	Nutrient	Bottle #	Chlor/ MZ	Other	Position				
Depth	Trip	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.											
1		2.573	10.1757	32.5479						32.5646				/		1				
2														/		2				
3														/		3				
4														/		4				
5														/		5				
6														/		6				
7														/		7				
8														/		8				
9														/		9				
10														/		10				
11														/		11				
12														/		12				

[illegible]

[illegible]

[illegible]