

The wrong side was  
X used in the 1st 11 cases  
for given (30 were used instead  
of 10)  
Pg 1 of 41

~~X~~ SALINITY CORRN SHOULD BE +0.010 CTD01A - down @ 10 min to 175m

0015615.51216926.40W05S	666	1328	9.5	9.2	4.6	7034865	256	1
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SEC TEMP SN 701  
fluorescent staining = 10 µg/L (per bag)  
Wet lab: Chlamydia 5/14/04  
PAG is in 11 different lanes, Max depth

POS.	TRIP	CTD CONVERTED MONITOR VALUES	SAMPLE BOTTLE	SAMPLE BOTTLE NUMBER

<b>CAL</b>							
			<b>SAL.</b>		<b>NUTRIENT</b>		
			<b>OOTHER</b>		<b>OTHER</b>		
<b>DATA</b>							
<b>PRESSURE</b>			<b>PRI. TEMP.</b>		<b>SEC. TEMP.</b>		
<b>SALINITY</b>			<b>SALINITY</b>				
<b>DEPTH</b>							

1	250.1	248.052	4.2203	4.2247	33.0317	33.0415	25.961
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[illegible]

3	150x	150.261	7.2773	7.2822	32.9380		1963
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4	100 V	100.233	4.8373	4.8392	1.32.7610		1964
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[illegible][illegible][illegible]

201	20.060	9.6780	9.6832	22.2198			✓
6							✓

[illegible]

11	3.794	46E.6	9.7061	2.31782	✓	1970
10	3.794	46E.6	9.7061	2.31782	✓	1970

12	PRIOR TO CAUSE END OF CAUSE		
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TS6 9.713 32067

996 21.883

VESSEL		PROJ. & LEG		FOCI Juvenile Pollock Survey		STA. DESIGNATION									
NOAAS MILLER FREEMAN		MF96-13				002									
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD= 249	TIME (GMT)	DRY BULB	WET BULB	PRESSURE mbars	SEA STATE	WIND DIR.	WIND SP	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
0025621.1111	116927.55	W055E196	1500	9.8	9.6	824606530866	138							2-1	
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS							
TYPE & SN 911+, 91660		DATA ON				Tape/Diskette ID		File Name/Header		PAR, FL, CHLOR, TATSC					
PRESS SN-91660 29772		START DOWN						CTD002		Most depths 132					
PRI TEMP SN 889		AT DEPTH													
COND SN 530		AT SURFACE													
SEC TEMP SN 701															
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY			SALINITY			SAL.	NUTRIENT	OTHER	CHL	
1	250	n/a													
2	200	n/a													
3	150 <sup>130</sup>	130.891	4.2905	4.2954	32.7290										
4	100	100.596	4.3006	4.3038	32.6446			32.6532			9	972			
5	75	76.636	4.6083	4.6078	32.6083							973			
6	50	50.986	5.8006	5.8147	32.3118							974			
7	40	38.758	8.5346	8.5472	32.2676										
8	30	30.160	9.3317	9.3420	32.1001							975			
9	20	20.430	9.8326	9.8761	31.9981							976			
10	10	10.443	9.8805	9.8844	31.9972							977			
11	0	3.647	9.8882	9.8918	31.9822							978			
12															

155102

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VESSEL		PROJ. & LEG		FOCI Juvenile Pollock Survey		STA. DESIGNATION	
NOAAS MILLER FREEMAN		MF96-13				003	
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=249	TIME (GMT)	DRY BULB	WET BULB	Pressure mbars
DEG MIN	DEG MIN	DAY MO YR	HR MIN	SEA STATE	WIND DIR.	WIN SP	CLOUD (amt)
00.35624.17N	169.27135W	05 SEP 96	160010.0	9.8794607030	866	121	3
CTD	TIMES	JD/TIME	DATA LOCATION				
TYPE & SN 911+, 91660	DATA ON		Tape/Diskette ID File Name/Header				
PRESS SN91660 29772	START DOWN		CTD003				
PRI TEMP SN 889	AT DEPTH	1604	10.03				
COND SN 530	AT SURFACE		31.838				
SEC TEMP SN 701							
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES					SAMPLE BOTTLE DATA
	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAL. NUTRIENT OTHER		
1							
2							
3	150 <sup>14</sup>	113.530	4.2457	4.2491	32.5480	32.5672	20 1986
4	100	99.018	4.1203	4.1240	32.4702		1985
5	75	75.565	3.4833	3.4880	32.1780		1984
6	50	51.389	5.3204	5.3109	32.1151		1983
7	40	40.439	8.1350	8.1721	31.9276		1982
8	30	31.022	9.8585	9.8615	31.9326		1981
9	20	20.708	9.9085	9.9179	31.9489		1980
10	10	9.974	9.9434	9.9481	31.9420		1980
11	0	2.363	9.9299	9.9340	31.9274		1980
12							

 REMARKS D3  
 PRR, FL, CHAM, TRAP, S6  
 m2 = 114

7.39  
31.761

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VESSEL		NOAAS MILLER FREEMAN		PROJ. & LEG		FOCI Juvenile Pollock Survey		STA. DESIGNATION											
				MF96-13															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=2119		TIME (GMT)	DRY BULB	WET BULB	Pressure mbars	SEA STATE	VIS.	WIND DIR.	WIN SP	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN										
010	45	6	27	4	7	N	16	9	28	1	7	W	0	5	S	E	P	9	6
1	6	9	28	1	7	W	0	5	S	E	P	9	6	1	7	0	6	9	1
2	1	6	9	28	1	7	W	0	5	S	E	P	9	6	1	7	0	6	9
3	2	1	6	9	28	1	7	W	0	5	S	E	P	9	6	1	7	0	6
4	3	2	1	6	9	28	1	7	W	0	5	S	E	P	9	6	1	7	0
5	4	3	2	1	6	9	28	1	7	W	0	5	S	E	P	9	6	1	7
6	5	4	3	2	1	6	9	28	1	7	W	0	5	S	E	P	9	6	1
7	6	5	4	3	2	1	6	9	28	1	7	W	0	5	S	E	P	9	6
8	7	6	5	4	3	2	1	6	9	28	1	7	W	0	5	S	E	P	9
9	8	7	6	5	4	3	2	1	6	9	28	1	7	W	0	5	S	E	P
10	9	8	7	6	5	4	3	2	1	6	9	28	1	7	W	0	5	S	E
11	10	9	8	7	6	5	4	3	2	1	6	9	28	1	7	W	0	5	S
12	11	10	9	8	7	6	5	4	3	2	1	6	9	28	1	7	W	0	5
13	12	11	10	9	8	7	6	5	4	3	2	1	6	9	28	1	7	W	0
14	13	12	11	10	9	8	7	6	5	4	3	2	1	6	9	28	1	7	W
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	6	9	28	1	7
16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	6	9	28	1
17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	6	9	28
18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	6	9
19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	6
20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2
22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4
24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5
25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6
26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7
27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8
28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9
29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10
30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11
31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13
33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14
34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15
35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16
36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17
37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18
38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19
39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20
40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21
41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22
42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23
43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24
44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25
45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26
46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27
47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28
48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29
49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30
50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31
51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32
52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33
53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34
54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35
55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36
56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37
57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38
58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39
59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40
60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41
61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42
62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43
63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44
64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45
65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46
66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47
67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48
68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49
69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50
70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51
71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52
72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53
73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54
74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55
75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56
76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57
77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58
78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59
79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60
80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61
81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62
82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63
83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64
84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65
85	84	83	82	81															



PAR, EL, CHAM, TAPSO  
MD = 71

[illegible]

[illegible]



VESSEL		PROJ. & LEG		FOCI Juvenile Pollock Survey		STA. DESIGNATION													
NOAAS MILLER FREEMAN		MF96-13																	
CONSC CAST #	LATITUDE	169 29.08		DATE	JD=249	2105 TIME (GMT)	DRY BULB	WET BULB	Pressure (mbars)	SEA STATE	VIS.	WIND DIR.	WIND SP	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
009	DEG MIN			DEG MIN	DAY MO YR	HR MIN												8-1	
008	56.33.43	N		169 28.83	W05 SEP 96	2106	10.01	07.25	5070	188	76	53						8	
CTD		TIMES		JD/TIME		DATA LOCATION												REMARKS	
TYPE & SN 911+, 91660		DATA ON				Tape/Diskette ID												File Name/Header	
PRESS SN94660 29772		START DOWN																CTD002	
PRI TEMP SN 889		AT DEPTH																PAR, FL, CHLOR, TRPS	
COND SN 680 480		AT SURFACE																	
SEC TEMP SN 701																			
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																	
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER											
1	44	48.853	8.2390	8.3436	31.8171	31.8269		SAL.	NUTRIENT	OTHER									
2	40	29.950	8.5618	8.5632	31.7962														
3	30	29.430	8.6003	8.6070	31.7887														
4	20	20.240	8.7044	8.7057	31.7626														
5	10	11.211	8.7960	8.7976	31.7457														
6	0	3.965	8.7661	8.7698	31.7501														
7																			
8																			
9																			
10																			
11																			
12																			

PAR, EL, GIANT, TAPSE



PAUL CHAIKIN TAPSO

0248

VESSEL NOAAS MILLER FREEMAN		PROJ. & LEG MF96-13		FOCI Juvenile Pollock Survey										STA. DESIGNATION																	
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=251		O300 TIME (GMT)		DRY BULB		WET BULB		Pressure mbars		SEA STATE		VIS.		WIND DIR.		WIN SP		CLOUD (amt)		TYPE WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID	
013		DEG MIN		DEG MIN		DAY MO YR		HR MIN		9.7		9.4		9.1		4.6		1.7		5.1		8.8		6.5		1.3		6		21-1	
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS																							
TYPE & SN 911+, 91660		DATA ON		0255		Tape/Diskette ID		File Name/Header																							
PRESS SN-94660 29772		START DOWN		0255																											
PRI TEMP SN 889		AT DEPTH																													
COND SN 530 480		AT SURFACE																													
SEC TEMP SN 701																															
POS. TRIP DEPTH		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAMPLE BOTTLE DATA		SALINITY		SAL.		NUTRIENT		OTHER													
1		98.277		4.3822		4.3865		32.7722		32.7938		10																			
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

PARCEL CHART TAPSC

[illegible]

183206

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VESSEL		PROJ. & LEG		FOCI Juvenile Pollock Survey		STA. DESIGNATION	
NOAAS MILLER FREEMAN		MF96-13					
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=251	TIME (GMT)	DRY BULB	WET BULB	Pressure mbars
015	DEG MIN	DEG MIN	DAY MO YR	HR MIN	9.8	9.1	9246
014	5706.46 N	16944.36 W	7 SEP 96	1839	9.8	9.1	9246
CTD	TIMES	JD/TIME	DATA LOCATION	REMARKS	WIND DIR.	WIND SP	CLOUD (amt)
TYPE & SN 911+, 91660	DATA ON		Tape/Diskette ID	File Name/Header	100	20	865
PRESS SN 91660 29772	START DOWN			CTD014	100	20	865
PRI TEMP SN 889	AT DEPTH	0638			100	20	865
COND SN 5307 480	AT SURFACE				100	20	865
SEC TEMP SN 701					100	20	865
CTD CONVERTED MONITOR VALUES							
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER
1						SALINITY	SAL. NUTRIENT OTHER
2							
3							
4							
5							
6	48	48.973	8.3811	8.3843	31.8875	31.8972	01 1014
7	40	39.972	8.3842	8.3875	31.8872		✓
8	30	30.457	8.3985	8.4009	31.8859		✓
9	20	20.708	8.4933	8.4970	31.8766		✓
10	10	9.935	8.4947	8.4980	31.8766		✓
11	0	2.576	8.4953	8.4987	31.8763		✓
12							

North of St George  
PAR, FL, 2611AM, TAPSL  
31.735  
8.52

190902

VESSEL		PROJ. & LEG		FOCI Juvenile Pollock Survey		STA. DESIGNATION	
NOAAS MILLER FREEMAN		MF96-13					
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=251	TIME (GMT)	DRY BULB	WET BULB	Pressure mbars
016	DEG MIN	DEG MIN	DAY MO YR	HR MIN	SEA STATE	WIND DIR.	WIND SP
01553703.666	N	16942.12	W O 3 S E P 9 6	1916	9.2	9.0	9346
CTD	TIMES	JD/TIME	DATA LOCATION	REMARKS			
TYPE & SN 911+, 91660	DATA ON		Tape/Diskette ID	File Name/Header			
PRESS SN 91660 29772	START DOWN						
PRI TEMP SN 889	AT DEPTH						
COND SN 530	AT SURFACE						
SEC TEMP SN 701							
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA	
	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAMPLE BOTTLE NUMBER	
1						SAL.	NUTRIENT
2						OTHER	
3							
4							
5	55	55.950	8.5491	8.5519	31.8915	31.8919	30
6	50	51.047	8.5549	8.5589	31.8918		✓
7	40	40.297	8.5632	8.5667	31.8821		✓
8	30	30.310	8.5782	8.5819	31.8810		✓
9	20	19.691	8.5966	8.6004	31.8768		✓
10	10	10.854	8.6083	8.6115	31.8752		✓
11	0	3.112	8.6157	8.6192	31.8749		✓
12							

PER, FL, CHIRM, TAP56



193048

PG 15B OF 41

VESSEL NOAAS MILLER FREEMAN		PROJ. & LEG MF96-13		FOCI Juvenile Pollock Survey				STA. DESIGNATION																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=251		TIME (GMT)		DRY BULB		WET BULB		Pressure mbars		SEA STATE		VIS.		WIND DIR.		WIN SP		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID	
017		DEG MIN		DEG MIN		DAY MO YR		HR MIN		9.2		9.0		9346		10020		865		59		27-2											
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS																									
TYPE & SN 911+, 91660		DATA ON				Tape/Diskette ID		File Name/Header																									
PRESS SN 94660 29772		START DOWN																															
PRI TEMP SN 889		AT DEPTH																															
COND SN 530		AT SURFACE																															
SEC TEMP SN 701																																	
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER																											
		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY																									
1																																	
2																																	
3																																	
4																																	
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

PAR, FL, CHAM TAPS 6

MD=57

NO BOTTLES SAMPLED

CAST REDONE

BECAUSE TAPS

BUFFER WAS FULL

REMARKS C2

[illegible]

VESSEL		NOAAS MILLER FREEMAN		PROJ. & LEG		FOCI Juvenile Pollock Survey		STA. DESIGNATION												
				MF96-13																
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=251	TIME (GMT)	DRY BULB	WET BULB	Pressure mbars	SEA STATE	VIS.	WIND DIR.	WIN SP	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
019	DEG	MIN		DEG	MIN	DAY	MO	YR	HR	MIN								29-1		
019	56	57.37	N	169	40.98	W	07	S	E	P	96	20	54	9.5	9.3	934711	520	865	62	29
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS												
TYPE & SN 911+, 91660		DATA ON		0851		Tape/Diskette ID		File Name/Header												
PRESS SN 91660 29772		START DOWN		0851																
PRI TEMP SN 889		AT DEPTH																		
COND SN 530		AT SURFACE																		
SEC TEMP SN 701																				
CTD CONVERTED MONITOR VALUES																				
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAMPLE BOTTLE DATA		SALINITY		SAL.		NUTRIENT		OTHER		
1																				
2																				
3																				
4																				
5																				
6	50	50.357		7.8303		7.8302		31.9320		31.9345		24		1513		✓				
7	40	40.196		8.6562		8.6592		31.8803								✓				
8	30	30.489		8.6301		8.6335		31.8756								✓				
9	20	20.538		8.6358		8.6388		31.8750								✓				
10	10	10.869		8.6391		8.6822		31.8752								✓				
11	0	3.449		8.6931		8.6957		31.8748								✓				
12																				

 MOD=57  
 TPRR FL CHLANTARS6

VESSEL		NOAAS MILLER FREEMAN		PROJ & LEG		FOCI Juvenile Pollock Survey		STA. DESIGNATION	
				MF96-13					
CONSC CAST #		/		/		DATE JD=251		TIME (GMT)	
020		DEG MIN		DEG MIN		DAY MO YR		HR MIN	
0185654.744 N		16940.111 W		67 SEP 96		2133		9.2 9.2 9347115188656730	
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS CS	
TYPE & SN 9114, 91660		DATA ON				Tape/Diskette ID		File Name/Header	
PRESS SN-91666 29772		START DOWN						CTD018	
PRI TEMP SN 889		AT DEPTH						MD=62	
COND SN 530		AT SURFACE						PAR FL CHLORAM TAPSC6	
SEC TEMP SN 701									
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		CHL	
		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY	
1									
2									
3									
4									
5		60.942		7.3268		7.3267		31.9490	
6		49.911		8.1991		8.1977		31.9098	
7		40.952		8.6616		8.6650		31.8770	
8		30.620		8.6717		8.6751		31.8749	
9		20.737		8.6950		8.6980		31.8739	
10		10.519		8.7045		8.7079		31.8736	
11		0		3.119		8.7063		8.7098	
12									

SEC TEMP SN 701

[illegible]

000308

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VESSEL		PROJ. & LEG		FOCI Juvenile Pollock Survey										STA. DESIGNATION						
NOAAS MILLER FREEMAN		MF96-13																		
CONSC CAST #	56 38.14	LATITUDE		LONGITUDE		DATE JD=2552		TIME (GMT)		DRY BULB	WET BULB	Pressure mbars	SEA STATE	WIND DIR.	WIND SP	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
023	56 38.14	N		16935.87 W		08 SEP 1996		00009		9.0	9.0	9444709022	865	70	33					33-1
CTD	TIMES		JD/TIME		DATA LOCATION															
TYPE & SN 9114, 91660		DATA ON		Tape/Diskette ID File Name/Header																
PRESS SN#4660 29772		START DOWN		CTD0021																
PRI TEMP SN 889		AT DEPTH																		
COND SN 530		AT SURFACE																		
SEC TEMP SN 701																				
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER						
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	NUTRIENT	OTHER											
1																				
2																				
3																				
4																				
5	64	63.961	4.2995	4.3030	32.1648	32.1699	13													
6	50	50.631	5.4042	5.4078	32.0138															
7	40	40.598	6.0234	6.0120	31.9788															
8	30	30.406	7.4956	7.4986	31.9028															
9	20	20.486	8.0744	8.0771	31.8536															
10	10	10.149	8.6276	8.6214	31.8137															
11	0	2.534	8.6283	8.6319	31.8146															
12																				

REMARKS 08  
 MD = 65  
 PAR, FL, CHLOROPHYLL, TAPSL6  
 MBT

003212

PG 22 OF 41

VESSEL		NOAAS MILLER FREEMAN		PROJ. & LEG		FOCI Juvenile Pollock Survey		STA. DESIGNATION										
				MF96-13														
CONSC CAST #	024	LATITUDE	LONGITUDE	DATE JD=	252	TIME (GMT)	DRY BULB	WET BULB	Pressure mbars	SEA STATE	VIS.	WIND DIR.	WIN SP	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	024	5637.07 N	16934.74 W	08	SEP	1996	0038	9.10	9.10	34	70	97	20	86	5		46	34-1
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS										
		TYPE & SN 9114, 91660		DATA ON		Tape/Diskette ID		File Name/Header										
		PRESS SN 91660 29772		START DOWN				CTD0022										
		PRI TEMP SN 889		AT DEPTH														
		COND SN 530		AT SURFACE														
		SEC TEMP SN 701																
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER										
1						SAL.	NUTRIENT	OTHER										
2																		
3																		
4																		
5																		
6																		
7	40	39.537	5.7032	5.1595	32.0023				32.0087	16	539	✓						
8	30	29.271	7.0800	7.0818	31.9320						540	✓						
9	20	20.359	7.4587	7.4581	31.8987						541	✓						
10	10	10.379	8.3096	8.3132	31.8381						542	✓						
11	0	2.641	8.3053	8.3092	31.8400						543	✓						
12																		

PAR, FLUOR, CHLOR,  
TEMP



PAGE 11 CHIAO TAPSK

[illegible]

REMARKS: D-3  
FL SETTING CHANGED  
FM 10  $\mu\text{g/L}$  to  
30  $\mu\text{g/L}$  given to  
Dive crew MD 92  
MD =  
PAR FL CHANTRELLE

VESSEL NOAAS MILLER FREEMAN		PROJ. & LEG MF96-13		FOCI Juvenile Pollock Survey				STA. DESIGNATION																							
CONSC CAST # 028		LATITUDE /		LONGITUDE /		DATE JD= 253		TIME (GMT)		DRY BULB		WET BULB		Pressure mbars		SEA STATE		WIND DIR.		WIND SP.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID	
265654.85 N		17023.81 W		09 SEP 96		2240		9.6		8.2		1738		0301		2788		9.2		53											
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS																							
TYPE & SN 911+, 91660		DATA ON				Tape/Diskette ID		File Name/Header																							
PRESS SN 91660-29772		START DOWN						CTD026																							
PRI TEMP SN 889		AT DEPTH																													
COND SN 536 180		AT SURFACE																													
SEC TEMP SN 701																															
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTRIENT		OTHER																	
1				PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY																			
2																															
3																															
4																															
5		75		75.750		4.1380		4.1416		32.5609		32.5712		05		1565															
6		50		50.504		4.4123		4.4132		32.1953																					
7		40		40.353		5.3240		5.3251		32.1275																					
8		30		30.582		7.7034		7.7155		31.9169																					
9		20		20.471		8.4925		8.4972		31.8380																					
10		10		10.634		8.5260		8.5416		31.8412																					
11		0		3.054		8.5805		8.5827		31.8416																					
12																															

TABLE CONTINUES

230718

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VESSEL		PROJ. & LEG		FOCI Juvenile Pollock Survey										STA. DESIGNATION						
NOAAS MILLER FREEMAN		MF96-13																		
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=253		TIME (GMT)		DRY BULB	WET BULB	Pressure mbars	SEA STATE	VIS.	WIND DIR.	WIND SP.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												
0275656.			N 17021.		W09	SEP	96												78	54
CTD		TIMES		JD/TIME		DATA LOCATION														
TYPE & SN 9114, 91660		DATA ON				Tape/Diskette ID File Name/Header														
PRESS SN 91660 29772		START DOWN				CTD02A														
PRI TEMP SN 889		AT DEPTH																		
COND SN 590 480		AT SURFACE																		
SEC TEMP SN 701																				
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																		
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER												
						SALINITY	SAL.	NUTRIENT	OTHER											
1																				
2																				
3																				
4	75																			
5	50																			
6	40																			
7	30																			
8	20																			
9	10																			
10	0																			
11																				
12																				

REMARKS B5  
There was a pretty big  
swirling eddy, so  
we did two casts @  
this sta  
PAR, FL, CHLOR, TARS6

VESSEL		PROJ. & LEG		FOCI Juvenile Pollock Survey		STA. DESIGNATION											
NOAAS MILLER FREEMAN		MF96-13															
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=253	TIME (GMT)	DRY BULB	WET BULB	Pressure mbars	SEA STATE	VIS.	WIND DIR.	WIND SP	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
029	45.688	170.215	W09 SEP 96	2321	9.8	8.3	1738	035	18	68	1	83				54-1	
CTD		TIMES		JD TIME		DATA LOCATION		REMARKS									
TYPE & SN 911+, 91660		DATA ON				Tape/Diskette ID		File Name/Header									
PRESS SN 91660-29772		START DOWN						CTD027B		MD=78							
PRI TEMP SN 889		AT DEPTH															
COND SN 559-1480		AT SURFACE								PAR, FL, CHL, AM, TT, AFS, C							
SEC TEMP SN 701																	
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY			SALINITY		SAL.		NUTRIENT		OTHER		CHL	
1																	
2																	
3																	
4																	
5	75	75.337	4.1415	4.1457	32.5289	32.5254		28		1571							
6	50	50.337	4.3014	4.3065	32.1775											✓	
7	40	40.324	5.1568	5.1483	32.0347											✓	
8	30	30.565	8.1174	8.1235	31.8610											✓	
9	20	20.772	8.3112	8.3179	31.8256											✓	
10	10	10.263	8.3368	8.3381	31.7973											✓	
11	0	2.586	8.3757	8.3791	31.7972											✓	
12																	

[illegible]

$3D = 45$



011320

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VESSEL NOAAS MILLER FREEMAN		PROJ. & LEG MF96-13		FOCI Juvenile Pollock Survey		STA. DESIGNATION	
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD= 254	
032		DEG MIN		DEG MIN		DAY MO YR	
0305705.72		N 17013.13		W 105196		0118	
CTD		TIMES		JD/TIME		DATA LOCATION	
TYPE & SN 911+, 91660		DATA ON		Tape/Diskette ID		File Name/Header	
PRESS SN 91660 29772		START DOWN				CTD020	
PRI TEMP SN 889		AT DEPTH					
COND SN 480		AT SURFACE					
SEC TEMP SN 701						PAR, FL, CHLOROPHYLL	
CTD CONVERTED MONITOR VALUES							
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER
1						SALINITY	SAL. NUTRIENT OTHER
2							
3							
4							
5							
6							
7							
8	30	30.419	8.5936	8.5917	31.8832	31.8926	21 1228 ✓
9	20	19.852	8.6477	8.6508	31.8781		1229 ✓
10	10	10.827	8.7073	8.7072	31.8757		1230 ✓
11	0	2.563	8.7770	8.7758	31.8743		1231 ✓
12							
REMARKS		BS					
WD = 31							

VESSEL		PROJ. & LEG		FOCI Juvenile Pollock Survey		STA. DESIGNATION										
NOAAS MILLER FREEMAN		MF96-13														
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=255	TIME (GMT)	DRY BULB	WET BULB	Pressure mbars	SEA STATE	WIND DIR.	WIND SP	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
033	DEG MIN	DEG MIN	DAY MO YR	HR MIN										77-1		
031	5734.23N	16956.49W	11 SEP 96	2042	6.9	5.2	116701423799						710	77		
CTD		TIMES		JD/TIME		DATA LOCATION										
TYPE & SN 9114, 91660		DATA ON		2038		Tape/Diskette ID File Name/Header										
PRESS SN:91660 29772		START DOWN		2038		CTD031										
PRI TEMP SN 889		AT DEPTH		2042												
COND SN 480		AT SURFACE														
SEC TEMP SN 701																
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY		SAL.		NUTRIENT		OTHER				
1																
2	64	64.746	4.5082	4.5138	32.0898	32.1015		14		1232						
3	50	50.153	4.5198	4.5735	32.0892					1233		✓				
4	40	39.944	4.5222	4.5866	32.0893							✓				
5	30	29.376	9.0388	9.0421	31.8824					1234		✓				
6	20	18.421	9.0342	9.0364	31.8845					1235		✓				
7	10	10.623	9.0356	9.0390	31.8839					1236		✓				
8	0	2.660	9.0334	9.0373	31.8836					1237		✓				
9																
10																
11																
12																

VESSEL NOAAS MILLER FREEMAN		PROJ. & LEG MF96-13		FOCI Juvenile Pollock Survey		STA. DESIGNATION	
CONSC CAST # 034		LATITUDE 19.46 N		LONGITUDE 170.00.92 W		DATE JD= 2055 11 SEP 96	
TIME 0345		TIME (GMT) 1422		DRY BULB 71.0		WET BULB 5.2	
CTD		TIMES DATA ON 2038		DATA LOCATION Tape/Diskette ID File Name/Header 070032		REMARKS A2	
TYPE & SN 911+, 91660		START DOWN 2038		AT DEPTH 2041		AT SURFACE	
PRESS SN 94660 29772		COND SN 480		SEC TEMP SN 701			
CTD CONVERTED MONITOR VALUES							
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA SALINITY	SAMPLE BOTTLE NUMBER SAL. NUTRIENT OTHER
1							
2	60	59.921	4.9475	4.9516	32.0802	32.0918	30 1238
3	50	49.956	4.9397	4.9436	32.0810		1239 ✓
4	40	39.368	5.6397	5.5932	32.0477		✓
5	30	29.211	8.6209	8.6238	31.8768		1240 ✓
6	20	19.316	8.6530	8.6587	31.8795		1241 ✓
7	10	9.385	8.6802	8.6825	31.8798		1242 ✓
8	0	2.446	8.6826	8.6870	31.8777		1243 ✓
9							
10							
11							
12							

221622

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VESSEL		PROJ. & LEG		FOCI Juvenile Pollock Survey				STA. DESIGNATION									
NOAAS MILLER FREEMAN		MF96-13															
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=255		TIME (GMT)		DRY BULB	WET BULB	Pressure m bars	SEA STATE VIS.	WIND DIR.	WIN SP	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
035	DEG MIN	DEG MIN	DAY	MO	YR	HR	MIN	6.0	5.2	11.6	7.0	20	20	59	8	6.3	79-1
03357	25.99	N		17	10	03	25	W	11	S	E	P	9	6	2	2	0
CTD		TIMES		JD/TIME		DATA LOCATION											
TYPE & SN 911+, 91660		DATA ON		Tape/Diskette ID File Name/Header													
PRESS SN-91660 29772		START DOWN		- CTD 03357 -													
PRI TEMP SN 889		AT DEPTH		CTD 03357													
COND SN 480		AT SURFACE		PAR, FL, CHLOR, TAPSL6													
SEC TEMP SN 701		A3 CTD 03357															
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	NUTRIENT	OTHER								
1																	
2																	
3	50	49.841	5.6892	5.6930	32.0523	32.0634	04	1244	✓								
4	40	40.346	5.7717	5.7744	32.0506			1249	✓								
5	30	30.150	8.2359	8.2265	31.8777			1245	✓								
6	20	19.614	8.4196	8.4233	31.8708			1246	✓								
7	10	9.353	8.4244	8.4287	31.8713			1247	✓								
8	0	3.257	8.4237	8.4276	31.8711			1248	✓								
9																	
10																	
11																	
12																	

REMARKS 3000 ft

The traces on CTD 03357, as

we took the cast (03357)

MD = 55

the H<sub>2</sub>O -

PAR, FL, CHLOR, TAPSL6

A3 CTD 03357

SEC TEMP SN 701

233639

PG 35 OF 41

VESSEL NOAAS MILLER FREEMAN		PROJ. & LEG MF96-13		FOCI Juvenile Pollock Survey		STA. DESIGNATION	
CONSC CAST # 037		LATITUDE 20.922N		LONGITUDE 70.0810W		DATE JD=251 SEP 96	
TIME (GMT) 0345		DRY BULB 7.2		WET BULB 4.8		Pressure mbars 1167	
SEA STATE 7		WIND DIR. 050		WIND SP. 26		CLOUD (amt) 49	
WEATHER 1		BOTTOM DEPTH (m) 56		STA. NAME/ID 81-1			
CTD		TIMES		JD/TIME		DATA LOCATION	
TYPE & SN 911+, 91660		DATA ON				Tape/Diskette ID	
PRESS SN94666 29772		START DOWN				File Name/Header	
PRI TEMP SN 889		AT DEPTH				CTD035	
COND SN 480		AT SURFACE				PAR, FL, CHLOR, TAPSC	
SEC TEMP SN 701							
CTD CONVERTED MONITOR VALUES							
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER
1						SALINITY	SAL. NUTRIENT OTHER
2							
3	50	50.907	7.7121	7.7145	31.9442	31.9522	7 1256 ✓
4	40	41.109	8.1094	8.1029	31.9112		1257 ✓
5	30	30.306	8.5224	8.5267	31.8804		1258 ✓
6	20	20.429	8.5730	8.5766	31.8768		1259 ✓
7	10	10.452	8.5833	8.5864	31.8768		1260 ✓
8	0	3.723	8.5803	8.5843	31.8766		1261 ✓
9							
10							
11							
12							

A5

VESSEL		PROJ. & LEG		FOCI Juvenile Pollock Survey		STA. DESIGNATION	
NOAAS MILLER FREEMAN		MF96-13					
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	Pressure mbars
038	DEG MIN	DEG MIN	DAY MO YR	HR MIN			SEA STATE
0365719.46N		17008.60W	12 SEP 96	0013	7.1	5.0	116801026581
CTD	TIMES		JD/TIME	DATA LOCATION			
TYPE & SN 911+, 91660	DATA ON			Tape/Diskette ID			
PRESS SN-91660 29772	START DOWN			File Name/Header			
PRI TEMP SN 889	AT DEPTH			CTD036			
COND SN 480	AT SURFACE			PAR, FLUORIM, TARS6			
SEC TEMP SN 701							
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES					
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER
1						SALINITY	SAL. NUTRIENT OTHER
2							
3	45	45.425	7.8548	7.8579	31.9360	31.9452	13 1262 ✓
4	40	40.373	7.9054	7.9072	31.9314		1263 ✓
5	30	29.876	8.4729	8.4875	31.8853		1264 ✓
6	20	20.065	8.6068	8.6127	31.8748		1265 ✓
7	10	9.610	8.6053	8.6119	31.8754		1266 ✓
8	0	3.563	8.6034	8.6082	31.8751		1267 ✓
9							
10							
11							
12							

AL

MD = 46

TYPE & SN 911+, 91660  
PRESS SN ~~91660~~ 29772  
PRI TEMP SN 889  
COND SN 480

DATA ON
START DOWN
AT DEPTH
AT SURFACE

Tape/Diskette ID	File Name/Header
	CTD037

MD=47  
PAR, FL, CHINN, TAPSC6





013334

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VESSEL		PROJ. & LEG		FOCI Juvenile Pollock Survey										STA. DESIGNATION	
NOAAS MILLER FREEMAN		MF96-13													
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	Pressure mbars	SEA STATE	WIND DIR.	WIND SP	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
041	15.98 N	170.11 W	252	0139	7.1	5.3	12.5	83	55	24	58	1	28	85-1	
CTD	TIMES		JD/TIME		DATA LOCATION										REMARKS
TYPE & SN 911+, 91660	DATA ON				Tape/Diskette ID										File Name/Header
PRESS SN 91660 29772	START DOWN														CTD039
PRI TEMP SN 889	AT DEPTH														MD = 85
COND SN 480	AT SURFACE														PAR, FL CHLOR, TARS
SEC TEMP SN 701															
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
		PRESSURE	PRI TEMP.	SEC TEMP.	SALINITY						SALINITY	SAL.	NUTRIENT	OTHER	
1															
2															
3															
4															
5															
6	20	20.202	8.2351	8.2421	31.9011						31.9169	15	1237	✓	
7	10	10.122	8.2186	8.2249	31.9024								1238	✓	
8	0	2.725	8.2256	8.2300	31.9014								1239	✓	
9															
10															
11															
12															



VESSEL NOAAS MILLER FREEMAN		PROJ. & LEG MF96-13		FOCI Juvenile Pollock Survey				STA. DESIGNATION									
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=253		TIME (GMT)	DRY BULB	WET BULB	Pressure mbars	SEA STATE	WIND DIR.	WIND SP	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
043	DEG MIN	DEG MIN	DEG MIN	DAY	MO	YR	HR	MIN	8.2	5.7	19	38	30	0	10	6	6
041	57	19	44	N	17	08	51	W	13	SEP	96	20	51	8.2	5.7	19	38
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS									
TYPE & SN 911+, 91660		DATA ON				Tape/Diskette ID		File Name/Header									
PRESS SN 91660 29772		START DOWN						CTD041									
PRI TEMP SN 889		AT DEPTH															
COND SN 480		AT SURFACE															
SEC TEMP SN 701																	
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	NUTRIENT	OTHER								
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

PAR EL CHANTRE  
no bottles TRASH  
CTD for 10pp-  
but for 2/100 01  
MD = 47 CTD @  
various depths