

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1904		PROJECT & LEG Eco-FOCI Spring Mooring Cruise		2015		Bongo:		RZA		STATION NO. S / H /	
CONSC CAST #		LATITUDE DEG MIN		LONGITUDE DEG MIN		DAY		MO		YR		TIME (GMT)	
0015743.35 N		15217.7 W		2015		01		54		4.6		571006389	
SBE 9+		Fluor/Turbidity		SBE43-Oxy (prime)		P41		SBE43-Oxy (sec)		Altimeter		PAR S/N	
PRESS SN													
Pri Temp SN													
Sec Temp SN													
Pri Cond SN													
Sec Cond SN													

Instrument Notes:

Recorder Initials: SB

REMARKS:

Post-Deployment Chinook mooring  
During titration of 2 samples, 305 failed

WEATHER OBS:

Nis No	Depth Desired	Rosette Notes	Hydro Team-PHEL		Chloro GFV Vol	Carbon Chemistry		Comments		Nis No
			Salt	Nut.Btl	O2-Btl.No	UAF-CO2				
1	Bot				305/245					1
2	305		167							2
3	Bot									3
4	Bot									4
5	Bot									5
6	Bot									6
7	Bot									7
8	Bot									8
9	Bot									9
10	Bot									10
11	Bot									11
12										12
1		Inline								1

HUNA on line DAF

DAIF #3 (rem)

VESSEL NOAAS Oscar Dyson				CRUISE ID DY1904				PROJECT & LEG Eco-FOCI Spring Mooring Cruise				Bongo:				STATION NO. S 02 H 1																											
CONSC CAST #				LATITUDE				LONGITUDE				TIME (GMT)				DRY BULB				RH				Pressure				WIND DIRN				WIND SPD				BOTTOM DEPTH				STA. NAME/ID			
002				54 26.35 N				165 18.55 W				22 APR 19				0600				5				51				1809				31024				155				A19-04-BS4			
SBE 9+				Fluor/Turbidity				2057				WEATHER OBS:				MAX DEPTH =				145 m																							
PRESS SN				0772				SBE43-Oxy (prime)				1961																															
Pri Temp SN				4379				SBE43-Oxy (sec)				3200																															
Sec Temp SN				2376				Altimeter				47408																															
Pri Cond SN				042985				PAR SN				70547																															
Sec Cond SN				43127																																							
Instrument Notes:																				REMARKS: Post-deployment of marine mammal mooring 19AL-RU-BS4 O off sets are still off No Bottles Tripped																							
Recorder Initials:																																											
NIS		Depth		Rosette Notes		Hydro Team-PMEL		Chloro		Carbon Chemistry		Comments		NIS																													
No		Desired		Salt		Nut.Bil		O2-Bil.No		GFF Vol		UAF-CO2		No																													
1																																											
2																																											
3																																											
4																																											
5																																											
6																																											
7																																											
8																																											
9																																											
10																																											
11																																											
12																																											
1																																											

VESSEL		CRUISE ID		PROJECT & LEG		STATION NO.															
NOAAS Oscar Dyson		DY1904		Eco-FOCI Spring Mooring Cruise		Bongo: Barba 1 RZA N S 03 H 1															
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB		RH		Pressure		WIND DIRN.		WIND SPD		BOTTOM DEPTH		STA NAME/ID	
		DEG MIN		DEG MIN		DAY MO YR		HR MIN		(°C) (%) (mb)		(deg) (kts)		(m)							
003		54 20. 25 N		165 25. 60 W		28 APR 19		0822		0.2		59.1011		336		23		157		VB54	
SBE 9+		Fluor/Urbity		2057		WEATHER OBS:														MAX DEPTH = 141 m	
PRESS SN		0772		SBE43-Oxy (prme)		1961															
Pri Temp SN		4379		SBE43-Oxy (sec)		3200															
Sec Temp SN		2376		Altimeter		47408															
Pri Cond SN		042985		PAR SN		70547															
Sec Cond SN		43127																			
Instrument Notes:  From did not get a sample (Bottle b) Bottle #4 did not capture water (75m)																					
Recorder Initials:																					
NIS Depth		Rosette Notes		Hydro Team-PMEL		Chloro		Carbon Chemistry		Comments		NIS No									
No Desired		Salt		Nut Bil O2-Bil No		GFF Vol		UAF-CO2				No									
1		BF#		01								1									
2		125		02								2									
3		100		03								3									
4		75		04								4									
5		50		05		281						5									
6		40		06								6									
7		30		07		285						7									
8		20		08		281						8									
9		10		09		283						9									
10		0		10		278		283				10									
11												11									
12												12									
1		Inline										1									

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1904		PROJECT & LEG Eco-FOCI Spring Mooring Cruise		Bongo:		STATION NO. S 4 H 1	
CONSC CAST #		LATITUDE DEG MIN		LONGITUDE DEG MIN		TIME (GMT) DAY MO YR		DRY BULB (°C)	
0045422.58 N		16516.00 W		22 APR 19		1037		65	
								RH (%)	
								Pressure (mb)	
								WIND DIRN. (deg)	
								WIND SPD. (kts)	
								BOTTOM DEPTH (m)	
								165	
								STA. NAME/ID UBS3	

  

SBE 9+		Fluor/Turbidity		2057	
PRESS SN		0772		SBE43-Oxy (prime)	
Pi Temp SN		4379		SBE43-Oxy (sec)	
Sec Temp SN		2376		Altimeter	
Pi Cond SN		042985		PAR S/N	
Sec Cond SN		43127			

  

Instrument Notes:

  

Recorder initials:

  

No	Depth	Rosette Notes	Salt	Hydro Team-PMEL Nut.Bil	O2-Bil No	Chloro GF/Vol	Carbon Chemistry UAF-CO2	Comments	No
1	Bot		168 <sup>x</sup>	11	X311				1
2	125			12					2
3	106			13					3
4	75			14					4
5	50			15		281			3
6	40			16		282			4
7	30			17		285			7
8	20			18		281			8
9	10			19		283			9
10	0			20		283			10
11						283			11
12									12
1	Inline								1

VESSEL NOAAS Oscar Dyson				CRUISE ID DY1904				PROJECT & LEG Eco-FOCI Spring Mooring Cruise				Bongo:				STATION NO. S 5 H 1									
CONSC CAST # 005		LATITUDE DEG MIN		LONGITUDE DEG MIN		DAY MO YR		TIME (GMT) HR MIN		DRY BULB (°C)		RH (%)		Pressure (mb)		WIND DIRN (deg)		WIND SPD (kts)		BOTTOM DEPTH (m)		STA. NAME/ID UB52			
54		25.4 N		165 09.2 W		22 APR 19		11 57 00.5		053		1010		325		24		141							
SBE 9+				Fluor/Turbidity		2057		WEATHER OBS:														MAX. DEPTH = 130 m			
PRESS SN		0772		SBE43-Oxy (prime)		1961																			
Pri Temp SN		4379		SBE43-Oxy (sec)		3200																			
Sec Temp SN		2376		Altimeter		47408																			
Pri Cond SN		042985		PAR S/N		70547																			
Sec Cond SN		43127																							
Instrument Notes:																									
Recorder initials:																									
NIS No		Depth		Rosette Notes		Salt		Hydro Team-PMEL Nut. Btl		O2-Btl No		Chloro GFF Vol		Carbon Chemistry UAF-CO2								Comments		NIS No	
1		Bot						21																1	
2		100						22																2	
3		75						23																3	
4		50						24				281												4	
5		40						<del>25</del> 30				282												3	
6		30						26				285												4	
7		20						27				281												7	
8		10						28				283												8	
9		0						29 x 270				283												9	
10																								10	
11																								11	
12																								12	
1				Inline																				1	

REMARKS: Dredged during upcast to deeper water

Spilled sm. chlo sample

VESSEL		CRUISE ID		PROJECT & LEG		STATION NO.	
NOAAS Oscar Dyson		DY1904		Eco-FOCI Spring Mooring Cruise		Bongo: RZA	
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)	
DEG		MIN		DEG		MIN	
DAY		MO		DAY		MO	
HR		MIN		HR		MIN	
DRY BULB		RH		Pressure		WIND DIRN.	
(°C)		(%)		(mb)		(deg)	
WIND SPD.		WIND DIRN.		WIND SPD.		WIND DIRN.	
(kts)		(kts)		(kts)		(kts)	
BOTTOM DEPTH		STA. NAME/ID		MAX DEPTH =		51	
(m)		US51		40.5 m			
006		5426.70 N		16459.43 W		22 APR 19	
SBE 9+		Fluor/Turbidity		2057		WEATHER OBS: SMOG, Heavy SEAS	
PRESS SN		0772		SBE-43-Oxy (prime)		1961	
Pri Temp SN		4379		SBE-43-Oxy (sec)		3200	
Sec Temp SN		2376		Altimeter		47408	
Pri Cond SN		042985		PAR S/N		70547	
Sec Cond SN		43127					
Instrument Notes:							
Recorder Initials:							
NOAAS Oscar Dyson							
DY1904							
Eco-FOCI Spring Mooring Cruise							
Bongo: RZA							
US51							
MAX DEPTH = 40.5 m							
51							
WEATHER OBS: SMOG, Heavy SEAS							
REMARKS: READY TO TERMINATE/SCARABLE @ SNACKLE							
Recorder Initials:							
NOAAS Oscar Dyson							
DY1904							
Eco-FOCI Spring Mooring Cruise							
Bongo: RZA							
US51							
MAX DEPTH = 40.5 m							
51							
WEATHER OBS: SMOG, Heavy SEAS							
REMARKS: READY TO TERMINATE/SCARABLE @ SNACKLE							
Recorder Initials:							
NOAAS Oscar Dyson							
DY1904							
Eco-FOCI Spring Mooring Cruise							
Bongo: RZA							
US51							
MAX DEPTH = 40.5 m							
51							
WEATHER OBS: SMOG, Heavy SEAS							
REMARKS: READY TO TERMINATE/SCARABLE @ SNACKLE							
Recorder Initials:							
NOAAS Oscar Dyson							
DY1904							
Eco-FOCI Spring Mooring Cruise							
Bongo: RZA							
US51							
MAX DEPTH = 40.5 m							
51							
WEATHER OBS: SMOG, Heavy SEAS							
REMARKS: READY TO TERMINATE/SCARABLE @ SNACKLE							
Recorder Initials:							
NOAAS Oscar Dyson							
DY1904							
Eco-FOCI Spring Mooring Cruise							
Bongo: RZA							
US51							
MAX DEPTH = 40.5 m							
51							
WEATHER OBS: SMOG, Heavy SEAS							
REMARKS: READY TO TERMINATE/SCARABLE @ SNACKLE							
Recorder Initials:							
NOAAS Oscar Dyson							
DY1904							
Eco-FOCI Spring Mooring Cruise							
Bongo: RZA							
US51							
MAX DEPTH = 40.5 m							
51							
WEATHER OBS: SMOG, Heavy SEAS							
REMARKS: READY TO TERMINATE/SCARABLE @ SNACKLE							
Recorder Initials:							
NOAAS Oscar Dyson							
DY1904							
Eco-FOCI Spring Mooring Cruise							
Bongo: RZA							
US51							
MAX DEPTH = 40.5 m							
51							
WEATHER OBS: SMOG, Heavy SEAS							
REMARKS: READY TO TERMINATE/SCARABLE @ SNACKLE							
Recorder Initials:							
NOAAS Oscar Dyson							
DY1904							
Eco-FOCI Spring Mooring Cruise							
Bongo: RZA							
US51							
MAX DEPTH = 40.5 m							
51							
WEATHER OBS: SMOG, Heavy SEAS							
REMARKS: READY TO TERMINATE/SCARABLE @ SNACKLE							
Recorder Initials:							
NOAAS Oscar Dyson							
DY1904							
Eco-FOCI Spring Mooring Cruise							
Bongo: RZA							
US51							
MAX DEPTH = 40.5 m							
51							
WEATHER OBS: SMOG, Heavy SEAS							
REMARKS: READY TO TERMINATE/SCARABLE @ SNACKLE							
Recorder Initials:							
NOAAS Oscar Dyson							
DY1904							
Eco-FOCI Spring Mooring Cruise							
Bongo: RZA							
US51							
MAX DEPTH = 40.5 m							
51							
WEATHER OBS: SMOG, Heavy SEAS							
REMARKS: READY TO TERMINATE/SCARABLE @ SNACKLE							
Recorder Initials:							
NOAAS Oscar Dyson							
DY1904							
Eco-FOCI Spring Mooring Cruise							
Bongo: RZA							
US51							
MAX DEPTH = 40.5 m							
51							
WEATHER OBS: SMOG, Heavy SEAS							
REMARKS: READY TO TERMINATE/SCARABLE @ SNACKLE							
Recorder Initials:							
NOAAS Oscar Dyson							
DY1904							
Eco-FOCI Spring Mooring Cruise							
Bongo: RZA							
US51							
MAX DEPTH = 40.5 m							
51							
WEATHER OBS: SMOG, Heavy SEAS							
REMARKS: READY TO TERMINATE/SCARABLE @ SNACKLE							
Recorder Initials:							
NOAAS Oscar Dyson							
DY1904							
Eco-FOCI Spring Mooring Cruise							
Bongo: RZA							
US51							
MAX DEPTH = 40.5 m							
51							
WEATHER OBS: SMOG, Heavy SEAS							
REMARKS: READY TO TERMINATE/SCARABLE @ SNACKLE							
Recorder Initials:							
NOAAS Oscar Dyson							
DY1904							
Eco-FOCI Spring Mooring Cruise							
Bongo: RZA							
US51							
MAX DEPTH = 40.5 m							
51							
WEATHER OBS: SMOG, Heavy SEAS							
REMARKS: READY TO TERMINATE/SCARABLE @ SNACKLE							
Recorder Initials:							
NOAAS Oscar Dyson							
DY1904							
Eco-FOCI Spring Mooring Cruise							
Bongo: RZA							
US51							
MAX DEPTH = 40.5 m							
51							
WEATHER OBS: SMOG, Heavy SEAS							
REMARKS: READY TO TERMINATE/SCARABLE @ SNACKLE							
Recorder Initials:							
NOAAS Oscar Dyson							
DY1904							
Eco-FOCI Spring Mooring Cruise							
Bongo: RZA							
US51							
MAX DEPTH = 40.5 m							
51							
WEATHER OBS: SMOG, Heavy SEAS							
REMARKS: READY TO TERMINATE/SCARABLE @ SNACKLE							
Recorder Initials:							
NOAAS Oscar Dyson							
DY1904							
Eco-FOCI Spring Mooring Cruise							
Bongo: RZA							

VESSEL		CRUISE ID		PROJECT & LEG				STATION NO.																							
NOAAS Oscar Dyson		DY1904		Eco-FOCI Spring Mooring Cruise				Bongo: RZA																							
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB		RH		Pressure		WIND DIRN.		WIND SPD		BOTTOM DEPTH		STA. NAME/ID											
DEG		MIN		DEG		MIN		DAY		MO		YR		HR		MIN		°C		%		(mb)		(deg)		(kts)		(m)			
007		54 49.55 N		164 54.04 W		22 APR 19		1754		1.5		54		10		11		31		3		23									
SBE 9+		Fluor/Turbidity		2057		WEATHER OBS:																									
PRESS SN		0772		SBE43-Oxy (prime)		1961																									
Pri Temp SN		4379		SBE43-Oxy (sec)		3200																									
Sec Temp SN		2376		Altimeter		47408																									
Pri Cond SN		042985		PAR SN		70547																									
Sec Cond SN		43127																													
Instrument Notes:																															
<p>REMARKS: heavy seas, lots of wave</p> <p>SKIPPED 60m (user error... 5, 3 sec)</p> <p>Fluorometer ~ 4m, 1m, 3 but underway needs</p> <p>and pills look fairly even (no green)</p> <p>is end fluor too high?</p> <p>- error in fluor xml can ~ 5% was 9ml instead of 9.5 (5.1 x 1.8)</p> <p>Recorder Initials: <i>SSB</i></p>																															
N/S		Depth		Rosette Notes		Hydro Team-PMEL		Chloro		Carbon Chemistry		Comments		N/S																	
No		Desired		Salt		Nut Bit		O2-Bit No		GFF Vol		UAF-CO2		No																	
1		3m				30				282				1																	
2		40				37				285				2																	
3		30				34				281				3																	
4		70												4																	
5		10												5																	
6		10				410				763				6																	
7		10				41		x304		283				7																	
8														8																	
9														9																	
10														10																	
11														11																	
12														12																	
1				Inline										1																	



VESSEL		CRUISE ID		PROJECT & LEG		STATION NO.	
NOAAS Oscar Dyson		DY1904		Eco-FOCI Spring Mooring Cruise		Bongo: RZA	
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)	
DEG MIN		DEG MIN		DAY MO YR		HR MIN	
0085645.99 N		16420.37 W		24 APR 19		0019	
SBE 9+		Fluor/Turbidity		2057		0.2	
PRESS SN		0772		SBE43-Oxy (pHme)		1961	
Pri Temp SN		4379		SBE43-Oxy (sec)		3200	
Sec Temp SN		2376		Altimeter		47408	
Pri Cond SN		042985		PAR SN		70547	
Sec Cond SN		43127					
Instrument Notes:							
Recorder Initials: SB							
MAX DEPTH = 76 m.							
WEATHER OBS:		CALM, CLOUDY		DRY BULB		RH	
REMARKS:		PROD - 6h ext		Pressure		WIND DIRN.	
				(mb)		(deg)	
				(%)		(kts)	
				50101027810		WIND SPD.	
				74		BOTTOM DEPTH	
						(m)	
						STA. NAME/ID	
						M200	



VESSEL				CRUISE ID				PROJECT & LEG				STATION NO.																							
NOAAS Oscar Dyson				DY1904				Eco-FOCI Spring Mooring Cruise				Bongo: Bon005 RZA																							
CONSC CAST #				LATITUDE				LONGITUDE				TIME (GMT)																							
DEG		MIN		DEG		MIN		DAY		MO		YR		DRY BULB																					
														RH																					
														Pressure																					
														WIND DIRN.																					
														WIND SPD.																					
														BOTTOM DEPTH																					
														(m)																					
														STA. NAME/ID																					
009				56 39.86 N				163 52.26 W				24 APR 19				0305 01.4				0431010				281 07				75				MAS			
SBE 9+				Fluor/Turbidity				2057				WEATHER OBS:				MAX. DEPTH =				169 m															
PRESS SN				0772				SBE43-Oxy (prime)				1961				REMARKS:																			
Pri Temp SN				4379				SBE43-Oxy (sec)				3200																							
Sec Temp SN				2376				Altimeter				47408																							
Pri Cond SN				042985				PAR S/N				70547																							
Sec Cond SN				43127																															
Instrument Notes:																Recorder Initials:																			
NIS		Depth		Rosette Notes		Hydro Team-PMEL		Chloro		Carbon Chemistry		Comments		NIS																					
No		Desired		Salt		Nut. Btl		O2-Btl. No		GFF Vol		UAF-CO2		No																					
1		135				49				281				1																					
2		50				50				285				2																					
3		40				51				285				3																					
4		30				52				285				4																					
5		20				53				281				3																					
6		10				54				283				4																					
7		0				55		309		1233		283		7																					
8														8																					
9														9																					
10														10																					
11														11																					
12														12																					
1				Inline										1																					

VESSEL		CRUISE ID		PROJECT & LEG		STATION NO.					
NOAAS Oscar Dyson		DY1904		Eco-FOCI Spring Mooring Cruise		Bongo: <i>BON 006</i> RZA					
						S 10 H					
CONSC CAST #	LATITUDE	LONGITUDE		TIME (GMT)	DRY BULB	RH	Pressure	WIND DIRN.	WIND SPD.	BOTTOM DEPTH	STA. NAME/ID
010	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)	
	56 56. 73 N	163 50. 24 W		05 32	0.4	70	1011	035	5	70	M2E
SBE 9+ <input type="checkbox"/> Fluor/Turbidity 2057 PRESS SN <input type="checkbox"/> SBE43-Oxy (prime) 1961 Pt Temp SN <input type="checkbox"/> 4379 SBE43-Oxy (sec) 3200 Sec Temp SN <input type="checkbox"/> 2376 Altimeter 47408 Pt Cond SN <input type="checkbox"/> 042985 PAR SN 70547 Sec Cond SN <input type="checkbox"/> 43127											
Instrument Notes: _____ Recorder initials: _____											
No	Depth	Rosette Notes	Hydro Team-PMEL		Choro	Carbon Chemistry				Comments	No
	Desired		Salt	Nut.Bil	O2-Bil.No	GFF Vol	UAF-CO2				
1	30T			56	327	281					1
2	50			57		282					2
3	40			58		285					3
4	30			59		281					4
5	20			60		283					5
6	10			61		283					6
7	0			62		283					7
8											8
9											9
10											10
11											11
12											12
1		Inline									1

MAX. DEPTH = 69 m

*Bottom end cap  
hung upon rail*

VESSEL		CRUISE ID		PROJECT & LEG		STATION NO.															
NOAAS Oscar Dyson		DY1904		Eco-FOCI Spring Mooring Cruise		Bongo: Bongo7 RZA S 11 H 1															
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB		RH		Pressure		WIND DIRN.		WIND SPD.		BOTTOM DEPTH		STA. NAME/ID	
		DEG MIN		DEG MIN		DAY MO YR		HR MIN		(°C)		(mb)		(deg)		(kts)		(m)			
011		57 01.30 N		164 12.46 W		24 APR 1998		0736		-0.4		0671012		081		7		70		H2N	
SBE 9+				Fluor/Turbidity		2057		WEATHER OBS:												MAX. DEPTH = 64 m	
PRESS SN		0772		SBE43-Oxy (prime)		1961															
Prt Temp SN		4379		SBE43-Oxy (sec)		3200															
Sec Temp SN		2376		Altimeter		47408															
Prt Cond SN		042985		PAR SN		70547															
Sec Cond SN		43127																			
Instrument Notes:																					
Recorder Initials:																					

[illegible]

VESSEL		CRUISE ID		PROJECT & LEG		STATION NO.									
NOAAS Oscar Dyson		DY1904		Eco-FOCI Spring Mooring Cruise		Bongo: B01008 RZA S 13 H 1									
CONSC CAST #	DEG	LATITUDE MIN	DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT)	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD (kts)	BOTTOM DEPTH (m)	STA NAME/ID
013	56	52.05 N	144	03.11 W	24	A	P	19	1848	2.7	60	1017	18	1.8	72 M2-center
SBE 9+		Fluor/Turbidity		2057		WEATHER OBS:		MAX. DEPTH = 60 m							
PRESS SN	0772	SBE43-Oxy (prime)		1961		REMARKS:									
Pri Temp SN	4379	SBE43-Oxy (sec)		3200		PROB Cast - 6h ext 15BS-2C 18BSP-2B Recovery									
Sec Temp SN	2376	Altimeter		47408		Recorder initials:									
Pri Cond SN	042985	PAR S/N		70547											
Sec Cond SN	43127														
Instrument Notes:															
Recorder initials:															
Nis	Depth	Rosette Notes	Hydro Team-PMEL	Chloro	Carbon Chemistry	Comments	Nis								
No	Desired	Salt	Nut Bl	O2-Btl No	GFF Vol	UAF-CO2	No								
1	150		81		540 x 281		1								
2	40		82		540 x 282		2								
3	30		83		540 x 285		3								
4	20		84		540 x 281		4								
5	10		85				3								
6	10		86		540 + 283		4								
7	85C		87				7								
8	85C		88		540 283		8								
9	50		89		317 133?		9								
10							10								
11	BIM		*HZ 90	2321			11								
12							12								
1		Inline					1								

out of sequence

VESSEL		CRUISE ID		PROJECT & LEG		STATION NO.	
NOAAS Oscar Dyson		DY1904		Eco-FOCI Spring Mooring Cruise		Bongo: RZA	
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)	
DEG		MIN		DEG		MIN	
DAY		MO		YR		HR	
MIN		SEC		MIN		SEC	
014		56 52.02 N		164 03.81 W		25 APR 19	
0027		4.4		47		10 20	
77		1.8		72		MTCenter	
MAX DEPTH =		65 m					
SBE 9+		Fluor/Turbidity		2057			
PRESS SN		0772		SBE-43-Oxy (prime)		1961	
Pr Temp SN		4379		SBE-43-Oxy (sec)		3200	
Sec Temp SN		2376		Altimeter		47408	
Pr Cond SN		042985		PAR SN		70547	
Sec Cond SN		43127					
Instrument Notes:							
Recorder Initials: 58							
Depth		Rosette Notes		Hydro Team-PMEL		Carbon Chemistry	
No		Desired		Salt		Nut Btl	
1		50		540		281	
2		40		540		282	
3		30		540		285	
4		20		540		281	
5		10		540		283	
6		10		540		283	
7		SEC		540		283	
8		SEC		540		283	
9		5		540		283	
10							
11							
12							
1		Inline					





[illegible]

VESSEL		CRUISE ID		PROJECT & LEG		STATION NO.	
NOAAS Oscar Dyson		DY1904		Eco-FOCI Spring Mooring Cruise		Bongo: RZA	
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)	
DEG MIN		DEG MIN		DAY MO YR		HR MIN	
0176002.16 N		17300.16 W		26 APR 19		2133	
SBE 9+		Fluor/Turbidity		2057		WEATHER OBS:	
PRESS SN		0772		SBE43-Dry (prime)		1961	
Pri Temp SN		4379		SBE43-Dry (sec)		3200	
Sec Temp SN		2376		Altimeter		47408	
Pri Cond SN		042985		PAR SN		70547	
Sec Cond SN		43127					
Instrument Notes:							
Recorder Initials: <i>SK</i>							
Depth		Rosette Notes		Hydro Team-PMEL		Chloro	
No		Desired		Salt		Nut. Blt	
1		37m		104		2057	
2		50		105		281	
3		40		106		282	
4		30		107		285	
5		20		108		281	
6		10		109		283	
7		0		110		283	
8							
9							
10							
11							
12							
1		Inline					

VESSEL NOAAS Oscar Dyson				CRUISE ID DY1904				PROJECT & LEG Eco-FOCI Spring Mooring Cruise				Bongo: Boudo11				RZA				STATION NO. S 18 H 1							
CONSC CAST #		LATITUDE DEG MIN		LONGITUDE DEG MIN		DAY		MO		YR		TIME (GMT) HR MIN		DRY BULB (°C)		RH (%)		Pressure (mb)		WIND DIRN (deg)		WIND SPD (kts)		BOTTOM DEPTH (m)		STA NAME/ID	
018 6004.47 N		171 55.48 W		27 A P R 1 9		0051		1.7		63		102.6		172		20		64		15N							
SBE 9+		Fluor/Turbidity				2057						WEATHER OBS:														MAX DEPTH = 58 m	
PRESS SN		0772		SBE43-Oxy (prime)		1961																					
Pi Temp SN		4379		SBE43-Oxy (sec)		3200																					
Sec Temp SN		2376		Altimeter		47408																					
Pi Cond SN		042985		PAR SN		70547																					
Sec Cond SN		43127																									
Instrument Notes:																											
Recorder Initials:																											
NIS		Depth		Rosette Notes		Hydro Team-PMEL		Chloro		Carbon Chemistry		NIS		Comments		NIS											
No		Desired		Salt		NUL Bl		O2-Bl No		GFF Vol		UAF-CO2															
1		BTM		X174		111		X306		281																	
2		50				112				281																	
3		40				113				282																	
4		30				114				285																	
5		20				115				281																	
6		10				116				283																	
7		0				117				283																	
8																											
9																											
10																											
11																											
12																											
1		Inline																									

Chalky WATER (Aqua)

VESSEL NOAAS Oscar Dyson				CRUISE ID DY1904				PROJECT & LEG Eco-FOCI Spring Mooring Cruise				Bongo: <i>Bx1012</i> RZA				STATION NO S 19 H 1													
CONSC CAST #		LATITUDE DEG MIN		LONGITUDE DEG MIN		DAY		MO		YR		TIME (GMT) HR MIN		DRY BULB (°C)		RH (%)		Pressure (mb)		WIND DIRN. (deg)		WIND SPD (kts)		BOTTOM DEPTH (m)		STA NAME/ID M560			
019-5953.85 N		172 10.25 W		172 10.25 W		07		A		P		R		1		9		0237+1.6		66		1026		17119		74			
SBE 9+		Fluor/Turbidity		2057		WEATHER OBS:																				MAX DEPTH = 66 m			
PRESS SN		0772		SBE43-Oxy (prime)		1961																							
Pri Temp SN		4379		SBE43-Oxy (sec)		3200																							
Sec Temp SN		2376		Altimeter		47408																							
Pri Cond SN		042985		PAR SN		70547																							
Sec Cond SN		43127																											
Instrument Notes:																													
Recorder initials:																													
Nis		Depth		Rosette Notes		Hydro Team-PMEL		Chloro		Carbon Chemistry																Comments		Nis	
No		Desired		Salt		Nul. Bl		O2-Bl No		GFF Vol		UAF-CO2																No	
1		34				118																						1	
2		50				119																						2	
3		40				120																						3	
4		30				121																						4	
5		20				122																						3	
6		10				123																						4	
7		0				124		1016																				7	
8																												8	
9																												9	
10																												10	
11																												11	
12																												12	
1		Inline																										1	

REMARKS: *lost 2 sal @ 20m - off scale*

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1904			PROJECT & LEG Eco-FOCI Spring Mooring Cruise			Bongo: <i>B04013</i> RZA			STATION NO. <i>S20</i> H <i>41</i>								
CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB	RH	Pressure	WIND DIRN.	WIND SPD	BOTTOM DEPTH	STA. NAME/ID							
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)					
<i>020</i>	<i>59</i>	<i>54.80</i>	<i>N</i>	<i>171</i>	<i>43.64</i>	<i>W</i>	<i>27</i>	<i>A</i>	<i>P</i>	<i>R</i>	<i>1</i>	<i>9</i>	<i>0512</i>	<i>1.5</i>	<i>069</i>	<i>1025</i>	<i>148</i>	<i>16</i>	<i>69</i>	<i>M5C</i>
SBE 9+ _____ Fluor/Turbidity _____ 2057													WEATHER OBS:		MAX. DEPTH = <i>63</i> m					
PRESS SN	0772		SBE43-Oxy (prime)		1961															
Pri Temp SN	4379		SBE43-Oxy (sec)		3200															
Sec Temp SN	2376		Altimeter		47408															
Pri Cond SN	042985		PAR SN		70547															
Sec Cond SN	43127																			
REMARKS:																				

Recorder Initials:

[illegible]



[illegible]



VESSEL NOAAS Oscar Dyson				CRUISE ID DY1904				PROJECT & LEG Eco-FOCI Spring Mooring Cruise				STATION NO. Bongo: <i>Box 1016</i> RZA <i>405</i> S <i>23</i> H <i>1</i>																																																																																																																																																																																																																							
CONSC CAST #		LATITUDE DEG MIN		LONGITUDE DEG MIN		DAY MO YR		TIME (GMT) HR MIN		DRY BULB (°C)		RH (%)		Pressure (mb)		WIND DIRN. (deg)		WIND SPD. (kts)		BOTTOM DEPTH (m)		STA. NAME/ID <i>70M36</i>																																																																																																																																																																																																													
<i>Q3 5942.86N</i>		<i>17108.32W</i>		<i>07 APR 19</i>		<i>1040+1.9</i>		<i>69</i>		<i>1025</i>		<i>17018</i>		<i>73</i>																																																																																																																																																																																																																					
SBE 9+		Fluor/Turbidity		2057		WEATHER OBS:																MAX DEPTH = <i>68</i> m																																																																																																																																																																																																													
PRESS SN		0772		SBE43-Oxy (prime)		1961																																																																																																																																																																																																																													
Pn Temp SN		4379		SBE43-Oxy (sec)		3200																																																																																																																																																																																																																													
Sec Temp SN		2376		Altimeter		47408																																																																																																																																																																																																																													
Pn Cond SN		042985		PAR S/N		70547																																																																																																																																																																																																																													
Sec Cond SN		43127																																																																																																																																																																																																																																	
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<table border="1"> <thead> <tr> <th rowspan="2">Nis</th> <th rowspan="2">Depth</th> <th rowspan="2">Rosette Notes</th> <th colspan="4">Hydro Team-PMEL</th> <th rowspan="2">Chloro</th> <th colspan="4">Carbon Chemistry</th> <th rowspan="2">Comments</th> <th rowspan="2">Nis</th> </tr> <tr> <th>Salt</th> <th>Nut.Btl</th> <th>O2-Btl.No</th> <th>GFF Vol</th> <th>UAF-CO2</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td><i>Bot</i></td> <td></td> <td></td> <td><i>146</i></td> <td></td> <td></td> <td><i>281</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> </tr> <tr> <td>2</td> <td><i>50</i></td> <td></td> <td></td> <td><i>147</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> </tr> <tr> <td>3</td> <td><i>40</i></td> <td></td> <td></td> <td><i>148</i></td> <td></td> <td></td> <td><i>282</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3</td> </tr> <tr> <td>4</td> <td><i>30</i></td> <td></td> <td></td> <td><i>149</i></td> <td></td> <td></td> <td><i>285</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4</td> </tr> <tr> <td>5</td> <td><i>20</i></td> <td></td> <td></td> <td><i>150</i></td> <td></td> <td></td> <td><i>281</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3</td> </tr> <tr> <td>6</td> <td><i>10</i></td> <td></td> <td></td> <td><i>151</i></td> <td></td> <td></td> <td><i>283</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4</td> </tr> <tr> <td>7</td> <td><i>0</i></td> <td></td> <td></td> <td><i>152</i></td> <td></td> <td></td> <td><i>283</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7</td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8</td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>9</td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10</td> </tr> <tr> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>11</td> </tr> <tr> <td>12</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12</td> </tr> <tr> <td>1</td> <td></td> <td><i>Inline</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> </tr> </tbody> </table>																								Nis	Depth	Rosette Notes	Hydro Team-PMEL				Chloro	Carbon Chemistry				Comments	Nis	Salt	Nut.Btl	O2-Btl.No	GFF Vol	UAF-CO2				1	<i>Bot</i>			<i>146</i>			<i>281</i>						1	2	<i>50</i>			<i>147</i>									2	3	<i>40</i>			<i>148</i>			<i>282</i>						3	4	<i>30</i>			<i>149</i>			<i>285</i>						4	5	<i>20</i>			<i>150</i>			<i>281</i>						3	6	<i>10</i>			<i>151</i>			<i>283</i>						4	7	<i>0</i>			<i>152</i>			<i>283</i>						7	8													8	9													9	10													10	11													11	12													12	1		<i>Inline</i>											1
Nis	Depth	Rosette Notes	Hydro Team-PMEL				Chloro	Carbon Chemistry				Comments	Nis																																																																																																																																																																																																																						
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VESSEL		CRUISE ID		PROJECT & LEG		Bongo		STATION NO	
NOAAS Oscar Dyson		DY1904		Eco-FOCI Spring Mooring Cruise		Bongo: BO0017		S 24 H 1	
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		WIND DIRN	
DEG MIN		DEG MIN		DAY MO YR		DRY BULB (°C)		WIND SPD (kts)	
245914.86 N		17025.35 W		27 APR 19		1834		13611	
SBE 9+		Fluor/Turbidity		2057		WEATHER OBS:		MAX DEPTH = 69 m	
PRESS SN		0772		SBE-43-Oxy (prme)		1961			
Pri Temp SN		4379		SBE-43-Oxy (sec)		3200			
Sec Temp SN		2376		Altimeter		47408			
Pri Cond SN		042985		PAR SN		70547			
Sec Cond SN		43127							
Instrument Notes:									
P. 2000-6h Allard dlor sed for 1.5 hours after filling before freezing (in tubes) - sorry SB 52e frac chl volume = 540ml Recorder initials: SB									

VESSEL	Cruise ID	PROJECT & LEG	STATION NO.
NOAAS Oscar Dyson	DY1904	Eco-FOCI Spring Mooring Cruise	S 25 H 1
Bongo:	RZA		

CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	RH (%)	PRESSURE (mb)	WIND DIR/N (deg)	WIND SPD (kts)	BOTTOM DEPTH (m)	STA NAME/ID
025	58 56.96 N	170 19.72 W	27 A P R 19	2058	2.6	78	1023	136	12	70.7	TOM30
SBE 9+	Floor/Turbidity	2057	WEATHER OBS:							MAX DEPTH = 66 m	
PRESS SN	0772	SBE43-Oxy (prme)	1961								
Pri Temp SN	4379	SBE43-Oxy (sec)	3200								
Sec Temp SN	2376	Allinmeter	47408								
Pri Cond SN	042985	PAR SN	70547								
Sec Cond SN	43127										

Instrument Notes:  
  
Inline char at His station

Nis No	Depth Desired	Rosette Notes	Sail	Hydro Team-PMEL Nut Bil O2-Bil No	Chloro GFF Vol	Carbon Chemistry UAF-CO2	Comments	Nis No
1	BSM			160				1
2	SO			161	281			2
3	40			167	282			3
4	SO			163	285			4
5	20			164	281			3
6	16			165	283			4
7	O			166 X IIII	283			7
8								8
9								9
10								10
11								11
12								12
1	Inline							1

Recorder Initials: SJZ

VESSEL						CRUISE ID		PROJECT & LEG								STATION NO.						
NOAAS Oscar Dyson						DY1904		Eco-FOCI Spring Mooring Cruise								S ZL H 1						
CONSC CAST #			LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB		RH		Pressure		WIND DIRN.		WIND SPD.		BOTTOM DEPTH		STA NAME/ID	
			DEG MIN		DEG MIN		DAY MO YR		(°C)		(%)		(mb)		(deg)		(kts)		(m)			
0260			58 37.15 N		170 16.72 W		27 APR 19		23 23		3.3		79		1022		153		14		73 FOM28	
SBE 9+					Fluor/Turbidity																	
PRESS SN			0772		SBE43-Oxy (prime)				1961													
Pri Temp SN			4379		SBE43-Oxy (sec)				3200													
Sec Temp SN			2376		Altimeter				47408													
Pri Cond SN			042985		PAR SN				70547													
Sec Cond SN			43127																			
Instrument Notes:																						
Recorder Initials:																						



VESSEL		CRUISE ID		PROJECT & LEG		STATION NO.	
NOAAS Oscar Dyson		DY1904		Eco-FOCI Spring Mooring Cruise		Bongo: <i>Barfco 1</i> RZA	
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)	
DEG MIN		DEG MIN		DAY MO YR		HR MIN	
28		58 02.63 N		169 40.73 W		28 APR 19 0910	
SBE 9+		Fluor/Turbidity		2057		WEATHER OBS:	
PRESS SN		0772		SBE43-Oxy (prme)		1961	
Pri Temp SN		4379		SBE43-Oxy (sec)		3200	
Sec Temp SN		2376		Altimeter		47408	
Pri Cond SN		042985		PAR SN		70547	
Sec Cond SN		43127					
Instrument Notes:							
REMARKS: <i>@ Depth buffer pushed @ 28m</i>							
Recorder Initials:							
N/S		Depth		Rosette Notes		Hydro Team-PMEL	
No		Desired		Salt		Nut Btl O2-Btl No	
1		Bot		181		*315	
2		5b		182			
3		40		183			
4		30		184			
5		20		185			
6		10		186			
7		0		187			
8							
9							
10							
11							
12							
1		Inline					

[illegible]



VESSEL NOAAS Oscar Dyson				CRUISE ID DY1904				PROJECT & LEG Eco-FOCI Spring Mooring Cruise				STATION NO. S 30 H 1																																																																																																																																																																
CONSC CAST #				LATITUDE				LONGITUDE				TIME (GMT)																																																																																																																																																																
DEG		MIN		DEG		MIN		DAY		MO		YR																																																																																																																																																																
30		57.55.04 N		168		59.95 W		28		A P R		19																																																																																																																																																																
0824		3.7		87		1020		131		15		71																																																																																																																																																																
DRY BULB		RH		Pressure		WIND DIRN		WIND SPD		BOTTOM DEPTH		STA. NAME/ID																																																																																																																																																																
(°C)		(%)		(mb)		(deg)		(kts)		(m)		M44H																																																																																																																																																																
WEATHER OBS: SBE 9+ Fluor/Turbidity 2057 PRESS SN 0772 SBE43-Oxy (prime) 1961 Pn Temp SN 4379 SBE43-Oxy (sec) 3200 Sac Temp SN 2376 Altimeter 47408 Pn Cond SN 042985 PAR S/N 70547 Sac Cond SN 43127																																																																																																																																																																												
REMARKS:																																																																																																																																																																												
Instrument Notes:																																																																																																																																																																												
Recorder Initials:																																																																																																																																																																												
<table border="1"> <thead> <tr> <th rowspan="2">NIS No</th> <th rowspan="2">Depth</th> <th rowspan="2">Rosette Notes</th> <th colspan="3">Hydro Team-PMEL</th> <th rowspan="2">Chloro</th> <th colspan="2">Carbon Chemistry</th> <th rowspan="2">Comments</th> <th rowspan="2">NIS No</th> </tr> <tr> <th>Salt</th> <th>Nut. Btl</th> <th>O2-Btl No</th> <th>GFF Vol</th> <th>UAF-CO2</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>50</td> <td></td> <td></td> <td>195</td> <td>318</td> <td>281</td> <td></td> <td></td> <td></td> <td>1</td> </tr> <tr> <td>2</td> <td>40</td> <td></td> <td></td> <td>196</td> <td></td> <td>281</td> <td></td> <td></td> <td></td> <td>2</td> </tr> <tr> <td>3</td> <td>30</td> <td></td> <td></td> <td>197</td> <td></td> <td>285</td> <td></td> <td></td> <td></td> <td>3</td> </tr> <tr> <td>4</td> <td>20</td> <td></td> <td></td> <td>198</td> <td></td> <td>281</td> <td></td> <td></td> <td></td> <td>4</td> </tr> <tr> <td>5</td> <td>10</td> <td></td> <td></td> <td>200</td> <td></td> <td>283</td> <td></td> <td></td> <td></td> <td>5</td> </tr> <tr> <td>6</td> <td>0</td> <td></td> <td></td> <td>201</td> <td></td> <td>283</td> <td></td> <td></td> <td></td> <td>6</td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7</td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8</td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>9</td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10</td> </tr> <tr> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>11</td> </tr> <tr> <td>12</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12</td> </tr> <tr> <td>1</td> <td></td> <td>Inline</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> </tr> </tbody> </table>														NIS No	Depth	Rosette Notes	Hydro Team-PMEL			Chloro	Carbon Chemistry		Comments	NIS No	Salt	Nut. Btl	O2-Btl No	GFF Vol	UAF-CO2	1	50			195	318	281				1	2	40			196		281				2	3	30			197		285				3	4	20			198		281				4	5	10			200		283				5	6	0			201		283				6	7										7	8										8	9										9	10										10	11										11	12										12	1		Inline								1
NIS No	Depth	Rosette Notes	Hydro Team-PMEL			Chloro	Carbon Chemistry		Comments	NIS No																																																																																																																																																																		
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1	50			195	318	281				1																																																																																																																																																																		
2	40			196		281				2																																																																																																																																																																		
3	30			197		285				3																																																																																																																																																																		
4	20			198		281				4																																																																																																																																																																		
5	10			200		283				5																																																																																																																																																																		
6	0			201		283				6																																																																																																																																																																		
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1		Inline								1																																																																																																																																																																		

VESSELNOAAS Oscar Dyson

CRUISE IDDY1904

PROJECT & LEGEco-FOCI Spring Mooring Cruise

Bongo: B04/824

RZA

STATION NOs. 31

H 4

CONSC CAST #

DEGLATITUDE

DEGLONGITUDE

DAY

MO

YR

TIME (GMT)

DRY BULB

RH

Pressure

WIND DIRN

WIND SPD

BOTTOM DEPTH

STA. NAME/ID

31

57 53.26 N

168 51.54 W

28

A

P

R

1

9

1043

3.7

088

1018

135

15

72

M4C

SBE 9+

Fluor/Turbidity

2057

WEATHER OBS:

MAX DEPTH = 67 m

PRESS SN

0772

SBE43-Oxy (prme)

1961

Pri Temp SN

4379

SBE43-Oxy (sec)

3200

Sec Temp SN

2376

Altimeter

47408

Pri Cond SN

042985

PAR S/N

70547

Sec Cond SN

43127

Instrument Notes:

Recorder Initials:

NIS No	Depth	Rosette Notes	Salt	Hydro Team-PMEL	Chloro	Carbon Chemistry	Comments	NIS No
	Desired			Nut.Btl	O2-Btl No	GFF Vol	UAF-CO2	
1	Bot			202				1
2	50			203		081		2
3	40			204		081		3
4	30			205		085		4
5	20			206		081		3
6	10			207		083		4
7	0			208	*234	083		7
8								8
9								9
10								10
11								11
12								12
1		Inline						1

VESSEL NOAAS Oscar Dyson				CRUISE ID DY1904				PROJECT & LEG Eco-FOCI Spring Mooring Cruise				STATION NO S 32 H 1																																																																																																																																																																		
CONSC CAST #				LATITUDE				LONGITUDE				TIME (GMT)																																																																																																																																																																		
DEG				MIN				DEG				MIN																																																																																																																																																																		
DAY				MO				YR				HR																																																																																																																																																																		
MIN				SEC				MIN				SEC																																																																																																																																																																		
032 57 46.07				N				168 39.52				W																																																																																																																																																																		
28				A				P				R																																																																																																																																																																		
1				9				1209				4.0																																																																																																																																																																		
086				1017				142				17																																																																																																																																																																		
71				71				71				71																																																																																																																																																																		
MAX DEPTH = 106 m																																																																																																																																																																														
SBE 9+				Fluor/Turbidity				2057				WEATHER OBS:																																																																																																																																																																		
PRESS SN				0772				SBE43-Oxy (prime)				1961																																																																																																																																																																		
P1 Temp SN				4379				SBE43-Oxy (sec)				3200																																																																																																																																																																		
Sec Temp SN				2376				Altimeter				47408																																																																																																																																																																		
P1 Cond SN				042985				PAR SN				70547																																																																																																																																																																		
Sec Cond SN				43127																																																																																																																																																																										
Instrument Notes:																																																																																																																																																																														
Recorder Initials:																																																																																																																																																																														
REMARKS: Secondary salinity appears clogged by a jelly, values at 2000 for cast on the left surface.																																																																																																																																																																														
<table border="1"> <thead> <tr> <th rowspan="2">NIS</th> <th rowspan="2">Depth</th> <th rowspan="2">Rosette Notes</th> <th colspan="3">Hydro Team-PMEL</th> <th rowspan="2">Chloro</th> <th colspan="2">Carbon Chemistry</th> <th rowspan="2">Comments</th> <th rowspan="2">NIS</th> </tr> <tr> <th>Salt</th> <th>Nut.Bt</th> <th>O2-Bt.No</th> <th>UAF-CO2</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>31M</td> <td></td> <td>X178</td> <td>209</td> <td>X322</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> </tr> <tr> <td>2</td> <td>50</td> <td></td> <td></td> <td>210</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> </tr> <tr> <td>3</td> <td>40</td> <td></td> <td></td> <td>211</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3</td> </tr> <tr> <td>4</td> <td>30</td> <td></td> <td></td> <td>212</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4</td> </tr> <tr> <td>5</td> <td>20</td> <td></td> <td></td> <td>213</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3</td> </tr> <tr> <td>6</td> <td>10</td> <td></td> <td></td> <td>214</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4</td> </tr> <tr> <td>7</td> <td>0</td> <td></td> <td></td> <td>215</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7</td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8</td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>9</td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10</td> </tr> <tr> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>11</td> </tr> <tr> <td>12</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12</td> </tr> <tr> <td>1</td> <td></td> <td>Inline</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> </tr> </tbody> </table>																NIS	Depth	Rosette Notes	Hydro Team-PMEL			Chloro	Carbon Chemistry		Comments	NIS	Salt	Nut.Bt	O2-Bt.No	UAF-CO2		1	31M		X178	209	X322					1	2	50			210						2	3	40			211						3	4	30			212						4	5	20			213						3	6	10			214						4	7	0			215						7	8										8	9										9	10										10	11										11	12										12	1		Inline								1
NIS	Depth	Rosette Notes	Hydro Team-PMEL			Chloro	Carbon Chemistry		Comments	NIS																																																																																																																																																																				
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5	20			213						3																																																																																																																																																																				
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1		Inline								1																																																																																																																																																																				



VESSEL		PROJECT & LEG		STATION NO	
NOAAS Oscar Dyson		Eco-FOCI Spring Mooring Cruise		Bongo: RZA	
CRUISE ID		DY1904		S 34 H 1	
CONSC CAST #		LATITUDE		LONGITUDE	
DEG MIN		DEG MIN		DAY MO YR	
34 5736.04 N		168 42.17 W		28 APR 19	
TIME (GMT)		DRY BULB		RH	
HR MIN		(°C)		(%)	
2237		4.6		89	
PRESSURE		WIND DIRN.		WIND SPD	
(mb)		(deg)		(kts)	
1014		156		19	
BOTTOM DEPTH		STA NAME/ID			
(m)					
72		M45			
MAX DEPTH =		67 m			
SBE 9+		Fluor/Turbidity		2057	
PRESS SN		SBE43-Oxy (prime)		1961	
Pri Temp SN		SBE43-Oxy (sec)		3200	
Sec Temp SN		Altimeter		47408	
Pri Cond SN		PAR SN		70547	
Sec Cond SN		43127			
Instrument Notes:		REMARKS:			
		Repeat M45 after 6hr bongo recommendation			
		127005 - 6h exp			
		size frac - 3d			
		nut 228 out of order			
		Is chlor turb demands swapped?			
Recorder Initials:					
N/S		Depth		Rosette Notes	
No		Desired		Sat	
1		30m		228	
2		50		224	
3		40		225	
4		30		229	
5		20		226	
6		20		227	
7		10		227	
8		10		228	
9		0		228	
10		10		228	
11		10		228	
12		10		228	
1		Inline			

VESSEL NOAAS Oscar Dyson						CRUISE ID DY1904		PROJECT & LEG Eco-FOCI Spring Mooring Cruise			Bongo:	RZA	STATION NO. S 35 H	
CONSC CAST #	LATITUDE	LONGITUDE		TIME (GMT)		DRY BULB	RH	Pressure	WIND DIRN.	WIND SPD	BOTTOM DEPTH	STA NAME/ID		
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)				
35	57 31.53 N	168 36.55 W	29 APR 19	0155	4.1	88	1016	170	21		72	FOMIS		
SBE 3+		Fluor/Turbidity	2057											
PRESS SN	0772	SBE43-Oxy (prime)	1961											
Pri Temp SN	4379	SBE43-Oxy (sec)	3200											
Sec Temp SN	2376	Altimeter	47408											
Pri Cond SN	042985	PAR S/N	70547											
Sec Cond SN	43127													
Instrument Notes:  														
No	Depth Desired	Rosette Notes	Hydro Team-PMEL		Chloro	Carbon Chemistry		Comments						
			Salt	Nut. Blt	O2-Blt No	GFF Vol	UAF-CO2							
1	BTM		x179	230	x171									
2	50			281		x281								
3	40			232		x282								
4	30			233		x283								
5	20			234		x284								
6	10			235		x285								
7	0			236		x286								
8														
9														
10														
11														
12														
1	Inline													

**REMARKS:**

Bottle #3 Leaky

SWAPPED EDO Hydrobor channels in xmlcon bases on endplate pinout diagram w new cobb? Is this same setup as previously? What's different from previous setups?

Recorder Initials: SJ

MAX DEPTH = 66 m

VESSEL NOAAS Oscar Dyson				CRUISE ID DY1904				PROJECT & LEG Eco-FOCI Spring Mooring Cruise				STATION NO S 36 H 1																																																																																																																																																																																																	
CONSC CAST #				LATITUDE				LONGITUDE				TIME (GMT)																																																																																																																																																																																																	
DEG		MIN		DEG		MIN		DAY		MO		YR																																																																																																																																																																																																	
36		57 29.94		N		167 59.34		W		29		A P R 1 9																																																																																																																																																																																																	
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Nis	Depth	Rosette Notes	Hydro Team-PMEL			Chloro	Carbon Chemistry				Comments	Nis																																																																																																																																																																																																	
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4	30			240			285					4																																																																																																																																																																																																	
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VESSEL		CRUISE ID		PROJECT & LEG				STATION NO																																																																																																																																																																					
NOAAS Oscar Dyson		DY1904		Eco-FOCI Spring Mooring Cruise				Bongo: No Bongo RZA																																																																																																																																																																					
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB	RH	Pressure	WIND DIRN.	WIND SPD.	BOTTOM DEPTH	STA. NAME/ID																																																																																																																																																															
DEG MIN		DEG MIN		DAY MO YR		HR MIN		(°C)	(%)	(mb)	(deg)	(kts)	(m)																																																																																																																																																																
037	5729.93 N	16739.86 W	29	A	P	R	19	0345	4.4	87	1016	154	17	72 70M/15																																																																																																																																																															
SBE 9+		Fluor/Turbidity		2057		WEATHER OBS:								MAX DEPTH = 67 m																																																																																																																																																															
PRESS SN	0772	SBE43-Oxy (prime)		1961		REMARKS:																																																																																																																																																																							
Pri Temp SN	4379	SBE43-Oxy (sec)		3200		Jelly in 20 Salinity & 10 Salinity Came back to normal																																																																																																																																																																							
Sec Temp SN	2376	Altimeter		47408																																																																																																																																																																									
Pri Cond SN	042985	PAR SN		70547																																																																																																																																																																									
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VESSEL	PROJECT & LEG	STATION NO.
NOAAS Oscar Dyson	Eco-FOCI Spring Mooring Cruise	S 38 H 1
CRUISE ID DY1904	Bongo: B51030 RZA ✓	

CONSC CAST #	LATITUDE	LONGITUDE	TIME (GMT)	DRY BULB	RH	Pressure	WIND DIRN.	WIND SPD.	BOTTOM DEPTH	STA. NAME/ID							
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)			
038	57.29	167.20	.69	29	A	P	R	1	9	0501	4.3	87	1016	157	14	#1	70M14
N		W														m	

SBE 9+	Fluor/Turbidity	2057
PRESS SN	0772	1961
Pri Temp SN	4379	3200
Sec Temp SN	2376	47408
Pri Cond SN	042985	70547
Sec Cond SN	43127	

No	Depth	Rosette Notes	Salt	Nut.Btl	O2-Btl No	GFF Vol	Carbon Chemistry	UAF-CO2	Comments
No	Desired								
1	BTM			251	X266				
2	50			252		281			
3	40			253		282			
4	30			254		285			
5	20			255		281			
6	10			256		283			
7	0			257		283			
8									
9									
10									
11									
12									
1		Inline							

Instrument Notes:

WEATHER OBS:

REMARKS:

MAX DEPTH = 6.5 m

Recorder Initials:

VESSEL MOAAS Oscar Dyson			CRUISE ID DY1904			PROJECT & LEG Eco-FOCI Spring Mooring Cruise			Bongo:			STATION NO S 39 H 1									
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB	RH	Pressure	WIND DIRN.	WIND SPD.	BOTTOM DEPTH	STA. NAME/ID							
DEG		MIN		DEG		MIN		DAY	MO	YR	HR	MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)			
039		57 31. 35 N		167 02. 39 W		29		A P R		1 9		06 30		4.7	88	1016	142	15	70	70M13	
SBE 9+		Fluor/Turbidity		2057		WEATHER OBS:													MAX DEPTH = 66 m		
PRESS SN		0772		SBE43-Oxy (prime)		1961		REMARKS:													
Pri Temp SN		4379		SBE43-Oxy (sec)		3200															
Sec Temp SN		2376		Altimeter		47408															
Pri Cond SN		042985		PAR S/N		70547															
Sec Cond SN		43127																			
Instrument Notes:																					
Recorder Initials:																					
NIS No		Depth Desired		Rosette Notes		Hydro Team-PMEL Salt Nut.Btl O2-Btl.No		Chloro GFF Vol		Carbon Chemistry UAF-CO2		Comments		NIS No							
1		BTM				258								1							
2		50				259								2							
3		40				260		282						3							
4		30		x180		261		285						4							
5		20				262		281						3							
6		10				263		283						4							
7		0				264		283						7							
8														8							
9														9							
10														10							
11														11							
12														12							
1		Inline												1							

[illegible]

VESSEL		PROJECT & LEG		STATION NO.																								
NOAAS Oscar Dyson		Eco-FOCI Spring Mooring Cruise		S41 H 1																								
CRUISE ID		Bongo: n2		RZA																								
DY1904																												
CONSC CAST #	41	LATITUDE	DEG	MIN	SEC	LONGITUDE	DEG	MIN	SEC	DAY	MO	YR	TIME (GMT)	HR	MIN	DRY BULB	(°C)	RH	(%)	Pressure	(mb)	WIND DIRN.	(deg)	WIND SPD.	(kts)	BOTTOM DEPTH	(m)	STA NAME/ID
	5726.37	N	166	38	.60	W	09	29	APR	19	09	33	4.7	84	1016	125	17	69	70M11									
SBE 9+		Fluor/Turbidity				2057	WEATHER OBS:																		MAX DEPTH = 65 m			
PRESS SN	0772	SBE43-Oxy (prime)				1961	REMARKS: No O2 Sample																					
Pri Temp SN	4379	SBE43-Oxy (sec)				3200	Salinity Noisy																					
Sac Temp SN	2376	Altimeter				47408	Niskin #6 leaky																					
Pri Cond SN	042985	PAR SN				70547																						
Sac Cond SN	43127																											
Instrument Notes:																												
Recorder Initials:																												
Depth	Rosette Notes	Hydro Team-PMEL				Choro		Carbon Chemistry				Comments																
No	Desired	Salt	Nut Brl	O2-Btl No	GFF Vol	UAF-CO2																						
1	30		072		281																							
2	40		073		282																							
3	30		074		285																							
4	30		075		281																							
5	10		076		283																							
6	20		077		283																							
7	20		078		283																							
8																												
9																												
10																												
11																												
12																												
1	Inline																											

VESSEL			PROJECT & LEG		STATION NO	
NOAAS Oscar Dyson			CRUISE ID DY1904		Eco-FOCI Spring Mooring Cruise	
CONSC CAST #			LATITUDE		LONGITUDE	
DEG			MIN		DEG MIN	
DAY			MO		YR	
TIME (GMT)			DRY BULB		RH	
HR			MIN		Pressure (mb)	
WIND DIRN.			WIND SPD		BOTTOM DEPTH (m)	
STA NAME/ID			WIND DIRN.		WIND SPD	
0425719.27 N			106 19.13 W		29 APR 19	
SBE 9+			Fluor/Turbidity		2057	
PRESS SN			0772		1961	
Pn Temp SN			4379		3200	
Sec Temp SN			2376		47408	
Pn Cond SN			042985		70547	
Sec Cond SN			43127		70547	
Instrument Notes:			REMARKS:		WEATHER OBS:	
Recorder Initials:			MAX DEPTH = 65 m		70	
N/S			Depth		Roseette Notes	
Desired			Salt		Nut. Bl	
O2-BI No			GFF Vol		Carbon Chemistry	
UAF-CO2			Comments		N/S	
1			844		279*305	
2			50		280	
3			40		281	
4			30		282	
5			20		283	
6			10		284	
7			0		285	
8					286	
9					287	
10					288	
11					289	
12					290	
1			Inline		291	



[illegible]



[illegible]

VESSEL		CRUISE ID		PROJECT & LEG		STATION NO	
NOAAS Oscar Dyson		DY1904		Eco-FOCI Spring Mooring Cruise		Bongo: RZA S 416 H	
CONSC CAST #	DEG	MIN	LATITUDE	DEG	MIN	LONGITUDE	
416	56	59.71	N	165	22.90	W	
SBE 9+			Fluor/Turbidity			2057	
PRESS SN			0772			1961	
Pri Temp SN			4379			3200	
Sec Temp SN			2376			47408	
Pri Cond SN			042985			70547	
Sec Cond SN			43127				
WEATHER OBS:				TIME (GMT) HR MIN YR MO DAY			
				1604 5.1 85 1014 132 16			
REMARKS:				TSC chlor > 10 mg/m <sup>3</sup>			
				High chlor layer ~ 10 m to SFC → 25m			
				STEPS IN TEMP PROFILE in blue case			
Instrument Notes:				Recorder Initials:			
Nis	Depth	Rosette Notes	Salt	Hydro Team-PMEL	Chloro	Carbon Chemistry	Comments
No	Desired			Nut.Btl	GFF Vol	UAF-CO2	
1	BTM			307			
2	30			308	281		
3	40			309	282		
4	30			310	285		
5	20			311	281		
6	10			312	283		
7	0			313	283		
8							
9							
10							
11							
12							
1							

VESSEL		CRUISE ID		PROJECT & LEG		STATION NO.													
NOAAS Oscar Dyson		DY1904		Eco-FOCI Spring Mooring Cruise		Bongo: RZA ✓ S 47 H													
CONSC CAST #	LATITUDE	DEG	MIN	DEG	MIN	LONGITUDE	DAY	MO	YR	TIME (GMT)	HR	MIN	DRY BULB	RH	Pressure	WIND DIRN	WIND SPD	BOTTOM DEPTH	STA NAME/ID
0475651.49	N 16507.16					W 2907.16	29	APR	19	1752					1614			74	70M5
WEATHER OBS: MAX DEPTH = 67 m																			
REMARKS:																			
<p>hung out 0 sec for awhile before downcast</p> <p>P.P. 2005 - 6h expt (SES challenges)</p> <p>on upcast missed 40m bottle and went to 28m. went back down to 40m</p> <p>CALUM - no net dete from SES bottom</p> <p>Recorder Initials: SD</p>																			
Instrument Notes:		Fluor/Turbidity		SBE 43-Oxy (prime)		SBE 43-Oxy (sec)		Altimeter		PAR SN		Sec Cond SN							
		2057		1961		3200		47408		70547									
		0772		4379		2376		042985		43127									
Rosette Notes		Hydro Team-PMEL		Size		Chloro		Carbon Chemistry		Comments		NIS							
Depth	Desired	Salt	Nut. Btl	O2-Btl No	GFF Vol	UAF-CO2	PP ml												
1	40	316	290	282															
2	30	317	290	285															
3	20	318	290	281															
4	20	319	290	283															
5	10	320	290	283															
6	10																		
7	0																		
8	0																		
9																			
10	35m	313	294	283															
11	50	315	290	281															
12																			
1																			

1st sel failed on upcast 2nd sel failed 28m on upcast

[illegible]

[illegible]

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1904		PROJECT & LEG Eco-FOCI Spring Mooring Cruise			Bongo:		STATION NO S 50 H 1												
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB		RH		Pressure		WIND DIRN.		WIND SPD.		BOTTOM DEPTH		STA NAME/ID	
50		57 40.46 N		164 42.63 W		38 APR 19		0109		6.1		83		1012		140		18		56	
SBE 9+		Fluor/Turbidity		2057		WEATHER OBS:														MAX DEPTH = 50 m	
PRESS SN		0772		SBE43-Oxy (prme)		1961															
Pn Temp SN		4379		SBE43-Oxy (sec)		3200															
Sec Temp SN		2376		Altimeter		47408															
Pn Cond SN		042985		PAR SN		70547															
Sec Cond SN		43127																			
Instrument Notes:																					
Recorder Initials:																					
Depth		Rosette Notes		Hydro Team-PMEL		Chloro		Carbon Chemistry										Comments		NIS	
No		Desired		Salt		Nut.BI		O2-BI.No		GFF Vol		UAF-CO2								No	
1																				1	
2																				2	
3																				3	
4																				4	
5																				3	
6																				4	
7																				7	
8																				8	
9																				9	
10																				10	
11																				11	
12																				12	
1		Inline																		1	

REMARKS:  
Post deployment 1991-AL-BS3  
No Samples

VESSEL		PROJECT & LEG		STATION NO														
NOAAS Oscar Dyson		Eco-FOCI Spring Mooring Cruise		S 51 H 1														
CRUISE ID		Bongo:		RZA														
DY1904																		
CONSC	LATITUDE	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB	RH	Pressure	WIND DIRN	WIND SPD	BOTTOM DEPTH	STA NAME/ID
051	5652.15 N	164	03.48	W	30	A	P	R	1	9	1902	6.4	88	1014	157	17	72	M2C
SBE 9+	FLUOR/Turbidity	2057																
PRESS SN	0772	SBE43-Oxy (prime) 1961																
Pri Temp SN	4379	SBE43-Oxy (sec) 3200																
Sec Temp SN	2376	Altimeter 47408																
Pri Cond SN	042985	PAR S/N 70547																
Sec Cond SN	43127																	
Instrument Notes:																		
Recorder Initials: ST																		
101106 T3A dbr																		
Post 1MAE Peakler SWAP																		
SOS labeled wrong... (115 Am 2nd station 50 m)																		
P. PROD - 5 h exp																		
WEATHER OBS:																		
REMARKS:																		
Max DEPTH = 65 m																		

VESSEL		PROJECT & LEG		STATION NO	
NOAAS Oscar Dyson		CRUISE ID DY1904		Eco-FOCI Spring Mooring Cruise	
CONSC CAST #		LATITUDE		LONGITUDE	
DEG MIN		DEG MIN		DAY MO YR	
052		96 51.65 N		164 02.68 W	
SBE 9+		Fluor/Turbidity		2057	
PRESS SN		0772		SBE43-Oxy (prime)	
Pri Temp SN		4379		SBE43-Oxy (sec)	
Sec Temp SN		2376		Altimeter	
Pri Cond SN		042985		PAR S/N	
Sec Cond SN		43127			
Instrument Notes:		WEATHER OBS:		REMARKS:	
				Fall cal cast	
				+ P. P. Ross - 6h up	
				No NUTS!	

Depth		Rosette Notes		Hydro Team-PMEL		Chloro		Carbon Chemistry		Comments	
No	Desired	Salt	Nut Bil	O2-Bil No	Size/Type	GFF Vol	UAF-CO2	WIND DIRN.	WIND SPD.	BOTTOM DEPTH	STA NAME/ID
1	30			X 316	X 290	285					
2	25			X 327		281, 277, 287					
3	20				X 290	281					
4	10										
5	10										
6	10				X 290	283					
7	0				X 290	283					
8	0				X 290	283					
9	RTM				X 307						
10	50				X 308	X 290					
11	50				X 309	X 290					
12											
1		Inline									

Ox1 @ all depths (profile)

ch1 @ 10, 25, 44, 55

Recorder Initials:

MAX DEPTH = 62.5 m



VESSEL NOAAS Oscar Dyson		CRUISE ID DY1904		PROJECT & LEG Eco-FOCI Spring Mooring Cruise				Bongo:		STATION NO S <del>527</del> 542																																																																																																																																																																																					
CONSC CAST #		54 10.22		168 10.19		RZA		F1036		STA. NAME/ID																																																																																																																																																																																					
DEG		MIN		DEG		MIN		DAY		MO																																																																																																																																																																																					
54.16351		N		168.15216		W		01		MAY 19																																																																																																																																																																																					
TIME (GMT)		1448		TIME (GMT)		1448		DRY BULB		RH																																																																																																																																																																																					
DRY BULB		RH		PRESSURE		WIND DIRN.		WIND SPD.		BOTTOM DEPTH																																																																																																																																																																																					
°C		%		mb		deg		kts		(m)																																																																																																																																																																																					
WEATHER OBS:		REMARKS:		MAX DEPTH =		m																																																																																																																																																																																									
SBE 9+		Fluor/Turbidity		2057																																																																																																																																																																																											
PRESS SN		0772		SBE43-Oxy (prime)		1961																																																																																																																																																																																									
Pri Temp SN		4379		SBE43-Oxy (sec)		3200																																																																																																																																																																																									
Sec Temp SN		2376		Altimeter		47408																																																																																																																																																																																									
Pri Cond SN		042985		PAR SN		70547																																																																																																																																																																																									
Sec Cond SN		43127																																																																																																																																																																																													
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<table border="1"> <thead> <tr> <th>Nis</th> <th>Depth</th> <th>Rosette Notes</th> <th colspan="3">Hydro Team-PMEL</th> <th>Chloro</th> <th colspan="3">Carbon Chemistry</th> <th>Comments</th> <th>Nis</th> </tr> <tr> <th>No</th> <th>Desired</th> <th></th> <th>Salt</th> <th>Nut Btl</th> <th>O2-Btl No</th> <th>GFF Vol</th> <th>UAF-CO2</th> <th></th> <th></th> <th></th> <th>No</th> </tr> </thead> <tbody> <tr><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td></tr> <tr><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>3</td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4</td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>3</td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4</td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>7</td></tr> <tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>8</td></tr> <tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>9</td></tr> <tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>10</td></tr> <tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>11</td></tr> <tr><td>12</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>12</td></tr> <tr><td>1</td><td></td><td>Inline</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td></tr> </tbody> </table>												Nis	Depth	Rosette Notes	Hydro Team-PMEL			Chloro	Carbon Chemistry			Comments	Nis	No	Desired		Salt	Nut Btl	O2-Btl No	GFF Vol	UAF-CO2				No	1											1	2											2	3											3	4											4	5											3	6											4	7											7	8											8	9											9	10											10	11											11	12											12	1		Inline									1
Nis	Depth	Rosette Notes	Hydro Team-PMEL			Chloro	Carbon Chemistry			Comments	Nis																																																																																																																																																																																				
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VESSEL		CRUISE ID		PROJECT & LEG				STATION NO																							
NOAAS Oscar Dyson		DY1904		Eco-FOCI Spring Mooring Cruise				Bongo: RZA																							
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB		RH		Pressure		WIND DIRN.		WIND SPD.		BOTTOM DEPTH		STA NAME/ID											
DEG		MIN		DEG		MIN		DAY		MO		YR		HR		MIN		("C)		RH (%)		Pressure (mb)		WIND DIRN. (deg)		WIND SPD. (kts)		BOTTOM DEPTH (m)		STA NAME/ID	
5409		80 N		16809		13 W		01		M		A		Y		19		1456										8153		F1037	
SBE 9+				Fluor/Turbidity				2057																							
PRESS SN		0772		SBE43-Oxy (prime)				1961																							
Pri Temp SN		4379		SBE43-Oxy (sec)				3200																							
Sec Temp SN		2376		Altimeter				47408																							
Pri Cond SN		042985		PAR S/N				70547																							
Sec Cond SN		43127																													
Instrument Notes:																				REMARKS:											
Recorder Initials:																															

VESSEL NOAAS Oscar Dyson				CRUISE ID DY1904				PROJECT & LEG Eco-FOCI Spring Mooring Cruise				STATION NO. S 54 H 1									
Bongo:				RZA																	
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB		RH		Pressure		WIND DIRN.		WIND SPD.		BOTTOM DEPTH		STA. NAME/ID	
053 53 37.76 N		167 24.14 W		01 MAY 19		1939		5.1		72		1018		283		13		95		UNNAK	
DEG		MIN		DEG		MIN		DAY		MO		YR		HR		MIN		°C		%	
SBE 9+		Fluor/Turbidity		2057																	
PRESS SN		0772		SBE43-Oxy (prime)		1961															
Prt Temp SN		4379		SBE43-Oxy (sec)		3200															
Sec Temp SN		2376		Altimeter		47408															
Prt Cond SN		042985		PAR S/N		70547															
Sec Cond SN		43127																			
Instrument Notes:																					
Recorder Initials: 58																					
N/S		Depth		Rosette Notes		Hydro Team-PMEL		Chloro		Carbon Chemistry		Comments		N/S							
No		Desired		Salt		Nut. Blt		O2-Blt No		GFF Vol		UAF-CO2		No							
1														1							
2														2							
3														3							
4														4							
5														3							
6														4							
7														7							
8														8							
9														9							
10														10							
11														11							
12														12							
1		Inline												1							

Post UNNAK Area Deployment Recovery

MAX DEPTH = 89 m