

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise						STATION NO. 104										
CONSC CAST #																			UBS 2			
	LATITUDE		LONGITUDE		DATE		TIME (GMT)		DRY BULB		Relative Humidity		PRESSURE		SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH
DEG	MN	DEG	MIN	DAY	MO	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*			(m)		
102 54	25.22	N	16 50	8.98	W	17	MAY	14	00	12	41.79	0	28	358	21				H			
SBE 9+			FLUOR S/N																	MAX. DEPTH = 131 m		
PRESS SN			SBE43-Oxy (prime)																			
PRI TEMP SN			SBE43-Oxy (sec)																			
SEC TEMP SN			Transmissometer																			
PRI COND SN			PAR S/N																			
SEC COND SN																						
Ns	DEPTH	Rosette Notes		Hydro Team-PMEL												Comments				Ns		
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No	Chloro-i																No.	
1	BTM	133		876	293																	1
2	100	100		877																		2
3	75	75		878																		3
4	50	49		879																		4
5	40	41		880																		5
6	30	31		881																		6
7	20	20		882																		7
8	10	10		883																		8
9	0	3		884																		9
10																						10
11																						11
12																						12

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise						STATION NO. 103											
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB		Relative Humidity		PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	UBS3		
101 54 22.34 N		165 16.61 W		16	M A Y	14	23	23	41.4	90.29										167			
SBE 9+			FLUOR S/N		REMARKS												MAX. DEPTH = 154 m						
PRESS SN			SBE43-Oxy (prime)																				
PRI TEMP SN			SBE43-Oxy (sec)																				
SEC TEMP SN			Transmissometer																				
PRI COND SN			PAR S/N																				
SEC COND SN																							
Ns	DEPTH	Rosette Notes		Hydro Team-PMEL												Comments				Ns			
No.	DESIRED	Press		SALT	Nut.Btl	O2-Btl.No	Chloro-I																No.
1	BTM	161		51	867																		1
2	100	99		868																			2
3	75	75		869																			3
4	50	50		870																			4
5	40	39		871																			5
6	30	31		872																			6
7	20	20		873																			7
8	10	10		874																			8
9	0	3		875	292																		9
10																							10
11																							11
12																							12

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise							STATION NO. 102													
CONSC CAST #												Relative Humidity		PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
	LATITUDE	DEG	MIN	LONGITUDE	DEG	MIN	DATE	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)	UBS4		
	100	54	20.38	N	16	52	5.7	1	W	16	MAY	14	22	33	4	159	1	30	352	13		153			
SBE 9+	FLUOR S/N											REMARKS											MAX. DEPTH = 150 m		
PRESS SN	SBE43-Oxy (prime)																								
PRI TEMP SN	SBE43-Oxy (sec)																								
SEC TEMP SN	Transmissometer																								
PRI COND SN	PAR S/N																								
SEC COND SN																									
Ns	DEPTH	Rosette Notes		Hydro Team-PMEL															Comments			Ns			
No.	DESIRED	Press		SALT	Nut.Btl	O2-Btl.No	Chloro-I																		No.
1	BTM	151			858																				1
2	100	99			859																				2
3	75	74			860																				3
4	50	50			861																				4
5	40	41			862																				5
6	30	30			863																				6
7	20	20			864																				7
8	10	10			865																				8
9	0	2			866																				9
10																									10
11																									11
12																									12

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise						STATION NO. 101											
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(%)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	UBWO		
	99 54 18.59	N	165 52.99	W	16	MAY	14	2041	13.899	30					15 8				110				
SBE 9+	FLUOR S/N																	MAX. DEPTH = 106 m					
PRESS SN																							
PRI TEMP SN																							
SEC TEMP SN																							
PRI COND SN																							
SEC COND SN																							
No.	DEPTH	Rosette Notes		Hydro Team-PMEL										Comments						No.			
No.	DESIRED	Press		SALT	Nut.Btl	O2-Btl.No	Chloro-I																No.
1	BTM	107			850	291																	1
2	75	74			851																		2
3	50	50			852																		3
4	40	40			853																		4
5	30	30			854																		5
6	20	20			855																		6
7	10	11			856																		7
8	0	2		50	857																		8
9																							9
10																							10
11																							11
12																							12

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise						STATION NO. 100														
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID					
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*					*	*	(m)		
	98 54 21.51	N	165 55.76	W	16	MAY	14	19	45	3.5	100	30			2612		463									
SBE 9+			FLUOR S/N		REMARKS												MAX. DEPTH = 452 m									
PRESS SN			SBE43-Oxy (prime)																							
PRI TEMP SN			SBE43-Oxy (sec)																							
SEC TEMP SN			Transmissometer																							
PRI COND SN			PAR S/N																							
SEC COND SN																										
Nls	DEPTH	Rosette Notes		Hydro Team-PMEL												Comments				Nls						
No.	DESIRED	PRES		SALT	Nut.Btl	O2-Btl.No	Chloro-I																No.			
1	30f	458			839																		1			
2	300	303			840																		2			
3	200	201			841																		3			
4	100	101			842																		4			
5	75	75			843																		5			
6	50	50			844																		6			
7	40	41			845																		7			
8	30	30			846																		8			
9	20	21			847																		9			
10	10	10			848																		10			
11	0	2			849																		11			
12																							12			

99

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. <i>98</i>								
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB		Relative Humidity		PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*					
<i>96 54 35.00</i>	N	<i>166 07.91</i>	W	<i>16</i>	MAY	<i>14</i>	<i>16</i>	<i>15</i>	<i>3.3</i>	<i>100</i>	<i>30</i>				<i>9 15</i>			<i>4 12</i>	<i>UBw3</i>				
SBE 9+	FLUOR S/N		REMARKS										MAX. DEPTH = <i>404</i> m										
PRESS SN	SBE43-Oxy (prime)																						
PRI TEMP SN	SBE43-Oxy (sec)																						
SEC TEMP SN	Transmissometer																						
PRI COND SN	PAR S/N																						
SEC COND SN																							
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL										Comments					Nis				
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No	Chloro-I															No.			
1	<i>Bot</i>		<i>817</i>	<i>277</i>																1			
2	<i>250</i>		<i>818</i>																	2			
3	<i>150</i>		<i>819</i>																	3			
4	<i>100</i>		<i>820</i>																	4			
5	<i>75</i>		<i>821</i>																	5			
6	<i>50</i>		<i>822</i>		<i>281</i>															6			
7	<i>40</i>		<i>823</i>		<i>282</i>															7			
8	<i>30</i>		<i>824</i>		<i>285</i>															8			
9	<i>20</i>		<i>825</i>		<i>281</i>															9			
10	<i>10</i>		<i>826</i>		<i>283</i>															10			
11	<i>0</i>		<i>827</i>		<i>283</i>															11			
12																				12			

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. <i>97</i>						
CONSC CAST #												Relative Humidity (%)	PRESSURE (mb)	SEA STATE * * (deg)	VISIBILITY (kts)	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) * * * (m)	TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID <i>UBWW</i>
	LATITUDE DEG	MN	LONGITUDE DEG	MIN	DAY	MO	YR	HR	MIN	DRY BULB ("C)	("C)										
<i>95 54' 41.27 N</i>	<i>166 14.48 W</i>	<i>16</i>	<i>MAY</i>	<i>14</i>	<i>1404</i>	<i>30</i>	<i>100</i>	<i>30</i>	<i>49</i>	<i>9</i>	<i>291</i>										
SBE 9+		FLUOR S/N		REMARKS										MAX. DEPTH = <i>286</i> m							
PRESS SN		SBE43-Oxy (prime)																			
PRI TEMP SN		SBE43-Oxy (sec)																			
SEC TEMP SN		Transmissometer																			
PRI COND SN		PAR S/N																			
SEC COND SN																					
Ns	DEPTH	Rosette Notes		Hydro Team-PMEL										Comments			Ns				
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No	Chloro-I													No.			
1	<i>Bot</i>		<i>806</i>															1			
2	<i>250</i>		<i>807</i>															2			
3	<i>150</i>		<i>808</i>															3			
4	<i>100</i>		<i>809</i>															4			
5	<i>75</i>		<i>810</i>		<i>281</i>													5			
6	<i>50</i>		<i>811</i>		<i>281</i>													6			
7	<i>40</i>		<i>812</i>		<i>282</i>													7			
8	<i>30</i>		<i>813</i>		<i>285</i>													8			
9	<i>20</i>	<i>30</i>	<i>814</i>	<i>*265</i>	<i>281</i>													9			
10			<i>815</i>		<i>283</i>													10			
11	<i>0</i>		<i>816</i>		<i>283</i>													11			
12																		12			

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise						STATION NO. 93														
CONSC CAST #	54.16965		-166.232									Relative Humidity		PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	AE1		
	LATITUDE	DEG	MIN	LONGITUDE	DEG	MIN	DATE	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)					*	*	(m)
	9	15	41	0	.18	N	166	13	.92	W	16	MAY	14	04	54	4.0977	.29		37	16		126				
SBE 9+	FLUOR S/N										REMARKS										MAX. DEPTH = 122 m					
PRESS SN	SBE43-Oxy (prime)																									
PRI TEMP SN	SBE43-Oxy (sec)																									
SEC TEMP SN	Transmissometer																									
PRI COND SN	PAR S/N																									
SEC COND SN																										
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL														Comments				Nis				
No.	DESIRED	Predd		SALT	Nut.Btl	O2-Btl.No										Chloro-I									No.	
1	BTM	124			765																				1	
2		75			766																				2	
3		50			767																				3	
4		40			768																				4	
5		30			769																				5	
6		20			770																				6	
7		10			771																				7	
8		0		2	28	772	215																			8
9																										9
10																										10
11																										11
12																										12

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise						STATION NO. 92											
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB		Relative Humidity		PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	* TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	AWI		
	190	54.04	.17	N	166	37	.21	W	16	MAY	14	02	58	4.6	96	.30	52	7		105			
SBE 9+	FLUOR S/N										REMARKS										MAX. DEPTH = 97 m		
PRESS SN	SBE43-Oxy (prime)																						
PRI TEMP SN	SBE43-Oxy (sec)																						
SEC TEMP SN	Transmissometer																						
PRI COND SN	PAR S/N																						
SEC COND SN																							
Nis	DEPTH	Rosette Notes			Hydro Team-PMEL										Comments						Nis		
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No	Chloro-I																No.		
1	BTM	98		757	197																	1	
2	75	76		758																		2	
3	50	49		759																		3	
4	40	40		760																		4	
5	30	30		761																		5	
6	20	20		762																		6	
7	10	10		763																		7	
8	0	3		764																		8	
9																						9	
10																						10	
11																						11	
12																						12	

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise						STATION NO. 91													
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB		Relative Humidity		PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(%)	(mb)	*	*	(deg)	(kts)	*	*	*						
	89 54 08.37	N	166 30.30	W	16	MAY	14	01	47	4.6	96.5	31			68	16			1074						
SBE 9+	FLUOR S/N		REMARKS												MAX. DEPTH = 1056 m										
PRESS SN	SBE43-Oxy (prime)																								
PRI TEMP SN	SBE43-Oxy (sec)																								
SEC TEMP SN	Transmissometer																								
PRI COND SN	PAR S/N																								
SEC COND SN																									
Nls	DEPTH	Rosette Notes		Hydro Team-PMEL												Comments						Nls			
No.	DESIRED	Press	SALT	Nut.Btl	O2-Btl.No													Chloro-I							No.
1	BTM		27	746																					1
2	500	504.48		747																					2
3	250	251.426		748																					3
4	100	100.820		749																					4
5	75	75		750																					5
6	50	49.5		751																					6
7	40	39.4		752																					7
8	30	31.1		753																					8
9	20	20.6		754																					9
10	10	9.8		755																					10
11	0	2.4		756	175																				11
12																									12

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VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise						STATION NO. 89																	
CONSC CAST #													Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID						
	LATITUDE	DEG	MIN	LONGITUDE	DEG	MIN	DATE	DAY	MO	YR	HR	MIN												DRY BULB	(°C)	(°C)	(mb)	*	*
	87	54	18.95	N	166	48.93	W	15	MAY	14	2003	4.6	95	31		65	9			822	AuW								
SBE 9+	FLUOR S/N											REMARKS											MAX. DEPTH =			m			
PRESS SN	SBE43-Oxy (prime)																												
PRI TEMP SN	SBE43-Oxy (sec)																												
SEC TEMP SN	Transmissometer																												
PRI COND SN	PAR S/N																												
SEC COND SN																													
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL																				Comments			Nis		
No.	DESIRED	Pressd		SALT	Nut.Btl	O2-Btl.No	Chloro-I																				No.		
1	Bot	821			724																						1		
2	500	504			725																						2		
3	250	247			726																						3		
4	100	99			727																						4		
5	75	75			728																						5		
6	50	50			729																						6		
7	40	41			730																						7		
8	30	30			731																						8		
9	20	21			732																						9		
10	10	10			733																						10		
11	0	2		26	734	x168																					11		
12																											12		

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise						STATION NO. 88										
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID AUS
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	
SBE 9+	86 54 27.55 N		166 56.42 W		15 MAY 14			18 28		41.8	93	31			75	18				498	
PRESS SN			FLUOR S/N							REMARKS										MAX. DEPTH = 488 m	
PRI TEMP SN			SBE43-Oxy (prime)																		
SEC TEMP SN			SBE43-Oxy (sec)																		
PRI COND SN			Transmissometer																		
SEC COND SN			PAR S/N																		
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL												Comments				Nis	
No.	DESIRED			SALT	Nut.Btl	O2-Btl.No			Chloro-I												No.
1	Bot			713	x161																1
2	300			714																	2
3	200			715																	3
4	100			716																	4
5	75			717																	5
6	50			718																	6
7	40			719																	7
8	30			720																	8
9	20			721																	9
10	10			722																	10
11	0			723																	11
12																					12

No P7R

13
 45 600
 45
 150
 135
 250

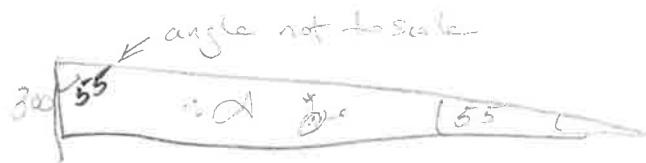
VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 87															
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB		Relative Humidity		PRESSURE		SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	BOTTOM DEPTH	UTI STA. NAME/ID							
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)										
	85 54 27.03 N		167 22.21 W	15	MAY	14	15	23	05.5	89.	30			308	6				649											
SBE 9+			FLUOR S/N	REMARKS																	MAX. DEPTH = 633 m									
PRESS SN			SBE43-Oxy (prime)																											
PRI TEMP SN			SBE43-Oxy (sec)																											
SEC TEMP SN			Transmissometer																											
PRI COND SN			PAR S/N																											
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL															Comments		Nis									
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No						Chloro-I													No.							
1	Bot	x25	702																				1							
2	500		703																				2							
3	250		704																				3							
4	100		705																				4							
5	75		706																				5							
6	50		707							281													6							
7	40		708							282													7							
8	30		709							283													8							
9	20		710							281													9							
10	10		711							283													10							
11	0		712	x150						283											bottle not fired		11							
12																							12							

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise						STATION NO. 86											
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB		Relative Humidity		PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID UT2
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)			
	84	54	19	.36	N	16	71	5.98	W	15	MAY	1	4	1308	51.4	87	.30	206	7		852		
SBE 9+																						MAX. DEPTH = 837 m	
PRESS SN																							
PRI TEMP SN																							
SEC TEMP SN																							
PRI COND SN																							
SEC COND SN																							
Nis No.	DEPTH	Rosette Notes		Hydro Team-PMEL												Comments						Nis No.	
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No							Chloro-l												
1	Bot				691																	1	
2	500				692	110																2	
3	300				693																	3	
4	100				694																	4	
5	75				695																	5	
6	50				696																	6	
7	40				697																	7	
8	30				698																	8	
9	20				699																	9	
10	10				700																	10	
11	0				701																	11	
12																						12	

No PAR

30 m/min to 200

Then 45 m/min



$$\begin{aligned} \cos^2 \alpha &= \frac{a}{H} \\ H &= a \cos \alpha \\ \cos \alpha &= \frac{a}{H} \end{aligned}$$

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise						STATION NO. 85											
CONSC CAST #	LATITUDE		LONGITUDE			DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	UT3	
	83 54 10.48 N		16 09.18 W	15	MAY	14	09	38	26.1	87.3	1007.48	31	1	1640	UT3							
SBE 9+																				MAX. DEPTH = 1499 m		
PRESS SN																						
PRI TEMP SN																						
SEC TEMP SN																						
PRI COND SN																						
SEC COND SN																						
Nis	DEPTH	Rosette Notes			Hydro Team-PMEL												Comments				Nis	
No.	DESIRED		SALT	Nut.Btl	O2-Btl.No																No.	
1	1500			680																1		
2	1200			681																2		
3	500			682																3		
4	100			683																4		
5	75			684																5		
6	50			685						281										6		
7	40			686						282										7		
8	30			687						285										8		
9	20			688						281										9		
10	10			689						283										10		
11	0		36	690	107					283										11		
12																				12		

30 m/min to 100m then 45

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 83.											
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB		Relative Humidity		PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	UT5					
	81 53.58	N	166 58.62	W	15	MAY	14	0458	5.7	93.	29			62	9				104							
SBE 9+	FLUOR S/N		REMARKS										MAX. DEPTH =					m								
PRESS SN	SBE43-Oxy (prime)																									
PRI TEMP SN	SBE43-Oxy (sec)																									
SEC TEMP SN	Transmissometer																									
PRI COND SN	PAR S/N																									
SEC COND SN																										
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL															Comments					Nis		
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No	Chloro-I																				No.	
1	BTM	96	35	661																					1	
2	75	75		662																					2	
3	50	50		663						✓															3	
4	40	41		664						✓															4	
5	30	31		665						✓															5	
6	20	20		666						✓															6	
7	10	11		667						✓															7	
8	0	3		668	37						✓															8
9																										9
10																										10
11																										11
12																										12

DRAFTER 136871 deployed prior to STATION (#82)

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 81									
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB		Relative Humidity		PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID 14BSP-6A	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)				
	80	53	24	.37	N	16	8	51	.45	W	14	MAY	14	19	42	5.8	88.	29	11810		1011			
SBE 9+																								
PRESS SN																								
PRI TEMP SN																								
SEC TEMP SN																								
PRI COND SN																								
SEC COND SN																								
Nls	DEPTH	Rosette Notes		Hydro Team-PMEL												Comments				Nls	No.			
No.	DESIRED	Press	SALT	Nut.Btl	O2-Btl.No																			
1	800	994		650																			1	
2	500	506		651																			2	
3	175	177		652	356													O ₂ Sensor on mooring					3	
4	100	100		653																			4	
5	75	75		654																			5	
6	50	49		655																			6	
7	40	40		656																			7	
8	30	31		657																			8	
9	20	20		658																			9	
10	10	11		659																			10	
11	0	2		660																			11	
12																							12	

30m/min to 100 m then 45

Drifter after this: 136873 station 81-h3 (82m log) ^{SCS} but was @ same location as CTD

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise												STATION NO. 80															
CONSC CAST #	LATITUDE		LONGITUDE			DATE			TIME (GMT)		DRY BULB (*C)		Relative Humidity (%)		PRESSURE (mb)		SEA STATE VISIBILITY		WIND DIRN. (deg)		WIND SPD. (kts)		CLOUD (amt)		TYPE WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID DL 1/21/15			
																													DEG	MIN	DEG	MIN
	39	53	21	12	N	16	8	11	.30	W	14	MAY	14	1606	5.3	93.	28		12012		409											
SBE 9+											FLUOR S/N										REMARKS										MAX. DEPTH = 400 m	
PRESS SN											SBE43-Oxy (prime)																					
PRI TEMP SN											SBE43-Oxy (sec)																					
SEC TEMP SN											Transmissometer																					
PRI COND SN											PAR S/N																					
SEC COND SN																																
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL																				Comments		Nis						
No.	DESIRED			SALT	Nut.Btl	O2-Btl.No										Chloro-I												No.				
1	Bot			638																								1				
2	250			639	357																							2				
3	150			640																								3				
4	100			641																								4				
5	75			642																								5				
6	50			643			281																					6				
7	40			644			282																					7				
8	30			645			285																					8				
9	20	x34		646			281																					9				
10	10			647			283																					10				
11	0			648			283																					11				
12																												12				

The PAR has returned

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 79																	
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB		Relative Humidity		PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH	(m)	DL 2 STA. NAME/ID									
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*														
	78 53.26	N	168 47.67	W	14	MAY	14	1426	4.9	95	28			120	16			1298														
SBE 9+			FLUOR S/N		REMARKS																MAX. DEPTH = 1271 m											
PRESS SN			SBE43-Oxy (prime)																													
PRI TEMP SN			SBE43-Oxy (sec)																													
SEC TEMP SN			Transmissometer																													
PRI COND SN			PAR S/N																													
SEC COND SN																																
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL										Comments						Nis												
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No	Chloro-I																		No.									
1	Bot			628																			1									
2	1000			629																			2									
3	500			630																			3									
4	100			631																			4									
5	75			632																			5									
6	50			633																			6									
7	40			634																			7									
8	30			635																			8									
9	20			636	358																			9								
10	10			637																			10									
11	0			638																			11									
12																							12									

No PAR

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise						STATION NO. 78												
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB		Relative Humidity		PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*				
77 53 31.21 N	16 85 4.22 W	14	MAY	14	12 33	4.4	96.28													1773			
SBE 9+	FLUOR S/N	REMARKS												MAX. DEPTH = 1500 m									
PRESS SN	SBE43-Oxy (prime)																						
PRI TEMP SN	SBE43-Oxy (sec)																						
SEC TEMP SN	Transmissometer																						
PRI COND SN	PAR S/N																						
SEC COND SN																							
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL												Comments				Nis			
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No	Chloro-I																No.		
1	1520	33	617	359																	1		
2	1000		618																		2		
3	500		619																		3		
4	100		620																		4		
5	75		621																		5		
6	50		622																		6		
7	40		623																		7		
8	30		624																		8		
9	20		625																		9		
10	10		626																		10		
11	0		627																		11		
12																					12		

30m/min to 200, then 45m/min

9:53

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise						STATION NO. 77										
CONSC CAST #											Relative Humidity		PRESSURE (mb)	SEA STATE +	VISIBILITY +	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) +	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID DL4/LL11
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)		
76	53	36.	84	N	16	90	1.	45	W	14	MAY	1	4	10	28	05.	39	3.	29	14812	1611	
SBE 9+	FLUOR S/N										REMARKS										MAX. DEPTH = 1503 m	
PRESS SN	SBE43-Oxy (prime)																					
PRI TEMP SN	SBE43-Oxy (sec)																					
SEC TEMP SN	Transmissometer																					
PRI COND SN	PAR S/N																					
SEC COND SN																						
Nls	DEPTH	Rosette Notes		Hydro Team-PMEL												Comments				Nls		
No.	DESIRED			SALT	Nut.Btl	O2-Btl.No						Chloro-I									No.	
1	1500			606																	1	
2	1000			607																	2	
3	500			608																	3	
4	100			609																	4	
5	75			610																	5	
6	50			611								281										6
7	40			612								282										7
8	30			613								285										8
9	20			614								281										9
10	10			615								283										10
11	0			616	352							283										11
12																						12

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise					STATION NO. 76											
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB (`C)	Relative Humidity (%)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
																					DEG
75 53 47.00 N	169 16.01 W	14	MAY	14	07	52	54	29	14716	1535											
SBE 9+			FLUOR S/N		REMARKS										MAX. DEPTH = 1492 m						
PRESS SN			SBE43-Oxy (prime)																		
PRI TEMP SN			SBE43-Oxy (sec)																		
SEC TEMP SN			Transmissometer																		
PRI COND SN			PAR S/N																		
SEC COND SN																					
Nis No.	DEPTH	Rosette Notes		Hydro Team-PMEL										Comments					Nis No.		
	DESIRED			SALT	Nut.Btl	O2-Btl.No			Chloro-I												
1	1500			595	353															1	
2	1000			596																2	
3	500			597																3	
4	100			598																4	
5	75			599					281											5	
6	50			600																6	
7	40			601					282											7	
8	30			602					285											8	
9	20			603					281											9	
10	10			604					283											10	
11	0			32	605				283											11	
12																				12	

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 75							
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB		Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*				
	74 54.02.20	N	169 33.61	W	14	MAY	14	04	56	5.393	.28				16017			1800				
SBE 9+			FLUOR S/N		REMARKS										MAX. DEPTH = 1500 m							
PRESS SN			SBE43-Oxy (prime)																			
PRI TEMP SN			SBE43-Oxy (sec)																			
SEC TEMP SN			Transmissometer																			
PRI COND SN			PAR S/N																			
SEC COND SN																						
Nis No.	DEPTH DESIRED	Rosette Notes (mbs) <i>Pnadd</i>		Hydro Team-PMEL										Comments					Nis No.			
1	1500	1522		SALT	Nut.Btl	O2-Btl.No			Chloro-I								1					
2	1000	1012			584	354											2					
3	500	504			585												3					
4	100	101			586												4					
5	75	76			587												5					
6	50	50			588												6					
7	40	40			589				✓								7					
8	30	30			590				✓								8					
9	20	20			591				✓								9					
10	10	10			592				✓								10					
11	0	3			593				✓								11					
12					594				✓								12					

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise											STATION NO. 74																
CONSC CAST #	LATITUDE		LONGITUDE			DATE			TIME (GMT)		DRY BULB (°C)	96%	Relative Humidity	PRESSURE (mb)	SEA STATE	VISIBILITY (deg)	WIND DIRN. (kts)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID DL7/LL8									
																							DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	Comments
	73	54	21	.02	N	16	94	9.77	W	14	MAY	14	01	51	5.0	29	175	098	1860					MAX. DEPTH = 1500 m								
SBE 9+	FLUOR S/N		REMARKS																													
PRESS SN	SBE43-Oxy (prime)																															
PRI TEMP SN	SBE43-Oxy (sec)																															
SEC TEMP SN	Transmissometer																															
PRI COND SN	PAR S/N																															
SEC COND SN																																
Nis No.	DEPTH DESIRED	Rosette Notes		Hydro Team-PMEL					Chloro-l										Comments					Nis No.								
1	1500	1520	31	573	355																			1								
2	1000	1010		574																				2								
3	500	503		575																				3								
4	100	99		576																				4								
5	75	76		577																				5								
6	50	51		578																				6								
7	40	41		579																				7								
8	30	31		580																				8								
9	20	20		581																				9								
10	10	10		582																				10								
11	0	2		583																				11								
12																								12								

Drifter before this station: F0306, station 73

The depth sounder was accidentally unplugged during this cast.

log of
bottom
water
75 fms

VESSEL		CRUISE ID			PROJECT & LEG				Dogleg CTDs					STATION NO.						
NOAAS Oscar Dyson		DY1405			Eco-FOCI Spring Mooring Cruise									72H1						
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)	DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR													
072 54.41	.41 N	169 26.24	W	13	MAY	14		14.9	100	31			100	5						
SBE 9+		FLUOR S/N																MAX. DEPTH = 1500 m		
PRESS SN		SBE43-Oxy (prime)																		
PRI TEMP SN		SBE43-Oxy (sec)																		
SEC TEMP SN		Transmissometer																		
PRI COND SN		PAR S/N																		
SEC COND SN																				
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL												Comments				Nis
No.	DESIRED	PASS	SALT	Nut.Btl	O2-Btl.No			Chloro-I										No.		
1	1500	1520		562														1		
2	1000	1010		563														2		
3	500	504		564	348													3		
4	100	100		565														4		
5	75	75		566														5		
6	50	50		567				✓										6		
7	40	41		568				✓										7		
8	30	31		569				✓										8		
9	20	20		570				✓										9		
10	10	11		571				✓										10		
11	0	2		572				✓										11		
12																		12		

when deep, use depth, not pressure to stop which bottles marked @ pressure on screen

5:50

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 71							
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB		Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*				
	71 54 57.05 N		168 53.91 W	13	MAY	14	18	24	03.4	100	29			11215		2202		DL9				
SBE 9+		FLUOR S/N		REMARKS												MAX. DEPTH = 1506 m						
PRESS SN		SBE43-Oxy (prime)																				
PRI TEMP SN		SBE43-Oxy (sec)																				
SEC TEMP SN		Transmissometer																				
PRI COND SN		PAR S/N																				
SEC COND SN																						
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL										Comments					Nis			
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No	Chloro-l															No.		
1	Bot		551																	1		
2	1000		552																	2		
3	500		553																	3		
4	100		554																	4		
5	75		555																	5		
6	50		556																	6		
7	40		557																	7		
8	30		558																	8		
9	20		559																	9		
10	10		560	349																10		
11	0		42	561																11		
12																				12		

PAR removed

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise						STATION NO. 69												
CONSC CAST #	LATITUDE		LONGITUDE			DATE			TIME (GMT)		DRY BULB		Relative Humidity		PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID LL512
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)					
70 55 10.28 N			168 31.57 W		13	MAY	14	14	23	3.0	10.0	31			105	5			1914	DL 102				
SBE 9+			FLUOR S/N																			MAX. DEPTH = 1521 m		
PRESS SN			SBE43-Oxy (prime)																					
PRI TEMP SN			SBE43-Oxy (sec)																					
SEC TEMP SN			Transmissometer																					
PRI COND SN			PAR S/N																					
SEC COND SN																								
Nis No.	DEPTH DESIRED	Rosette Notes		Hydro Team-PMEL														Comments		Nis No.				
1	Bot			540	289																1			
2	1000			541	288																2			
3	500			542	287																3			
4	100			543	286																4			
5	75			544	285																5			
6	50			545	284																6			
7	40			546	283																7			
8	30			547	282																8			
9	20			548	281																9			
10	10			549	280																10			
11	0			550	279																11			
12																						12		

PAR removed

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 68					
CONSC CAST #	LATITUDE 55 21.7713 N	LONGITUDE 168.14.3755 W		DATE 13 MAY 14			TIME (GMT)		DRY BULB 1045	Relative Humidity 2.6100	PRESSURE 29	SEA STATE 116	VISIBILITY 9	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) +	TYPE -	WEATHER -	BOTTOM DEPTH 1046	STA. NAME/ID DL10
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	
69	55 21.77 N	168	14.38 W	13	MAY	14	10	45	2.6100	29	116	9							1046	DL10
SBE 9+		FLUOR S/N																		MAX. DEPTH = 1024 m
PRESS SN		SBE43-Oxy (prime)																		
PRI TEMP SN		SBE43-Oxy (sec)																		
SEC TEMP SN		Transmissometer																		
PRI COND SN		PAR S/N																		
SEC COND SN																				
Nis	DEPTH	Rosette Notes			Hydro Team-PMEL										Comments					Nis
No.	DESIRED		SALT	Nut.Btl	O2-Btl.No					Chloro-I										No.
1	Bot	1000	41	529	350															1
2	500			530																2
3	250			531																3
4	100			532																4
5	75			533																5
6	50			534					281											6
7	40			535					282											7
8	30			536					285											8
9	20			537					281											9
10	10			538					283											10
11	0			539					283											11
12																				12

PAR removed

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. <i>67</i>								
CONSC CAST #	LATITUDE		LONGITUDE			DATE		TIME (GMT)		DRY BULB (°C)	Relative Humidity (%)	PRESSURE (mb)	SEA STATE (deg)	VISIBILITY (kts)	WIND DIRN.	WIND SPD. (kts)	CLOUD (mt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID <i>L-Line 4</i>		
																						DEG	MIN
	<i>68 55 25.81</i>	N	<i>168 06.97</i>	W	<i>13</i>	MAY	<i>14</i>	<i>09</i>	<i>17</i>	<i>2.5</i>	<i>100</i>	<i>30</i>	<i>130</i>	<i>7</i>				<i>241</i>	<i>DL11</i>				
SBE 9+			FLUOR S/N	REMARKS													MAX. DEPTH = <i>232</i> m						
PRESS SN			SBE43-Oxy (prime)																				
PRI TEMP SN			SBE43-Oxy (sec)																				
SEC TEMP SN			Transmissometer																				
PRI COND SN			PAR S/N																				
SEC COND SN																	Comments			Nis			
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL																		No.	
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No	Chloro-I																		No.
1	<i>Bd</i>																						1
2	<i>150</i>																						2
3	<i>100</i>																						3
4	<i>75</i>																						4
5	<i>50</i>				<i>523</i>					<i>281</i>													5
6	<i>40</i>				<i>524</i>					<i>282</i>													6
7	<i>30</i>				<i>525</i>					<i>285</i>													7
8	<i>20</i>				<i>526</i>					<i>281</i>													8
9	<i>10</i>				<i>527</i>					<i>357</i>					<i>283</i>								9
10	<i>0</i>				<i>528</i>					<i>283</i>													10
11																							11
12																							12

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 66									
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB (°C)	Relative Humidity (%)	PRESSURE (mb)	SEA STATE •	VISIBILITY •	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) •	TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID				
																					DEG	MIN	DEG	MIN
	67	57	51	.93	N	170	02	.81	W	12	MAY	14	19	12	2.890	.31	70	8	73					
SBE 9+			FLUOR S/N							REMARKS										MAX. DEPTH = 50 m				
PRESS SN			SBE43-Oxy (prime)																					
PRI TEMP SN			SBE43-Oxy (sec)																					
SEC TEMP SN			Transmissometer																					
PRI COND SN			PAR S/N																					
SEC COND SN																								
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL															Comments			Nis		
No.	DESIRED			SALT	Nut.Btl	O2-Btl.No			Chloro-I	Lugol													No.	
1	50			40	513	347			281														1	
2	40			514					282														2	
3	30			515					285														3	
4	20			516					281														4	
5	10			517					283	20											CH max		5	
6	0			578					283	19													6	
7																							7	
8																							8	
9																							9	
10																							10	
11																							11	
12																							12	

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. <i>65</i>						
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	
<i>66 59 S 31.80 N</i>	<i>172 09.91 W</i>	<i>12</i>	<i>MAY</i>	<i>14</i>	<i>0800</i>	<i>1.694</i>	<i>.29</i>	<i>20010</i>	<i>74</i>											<i>70m-40-m5w</i>	
SBE 9+	FLUOR S/N		REMARKS										MAX. DEPTH = <i>66</i> m								
PRESS SN	SBE43-Oxy (prime)																				
PRI TEMP SN	SBE43-Oxy (sec)																				
SEC TEMP SN	Transmissometer																				
PRI COND SN	PAR S/N																				
SEC COND SN																					
Nis No.	DEPTH	Rosette Notes		Hydro Team-PMEL										Comments					Nis No.		
	DESIRED	SALT	Nut.Btl	O2-Btl.No	Chloro-l																
1	<i>5TM</i>		<i>506</i>																	1	
2	<i>50</i>		<i>507</i>		<i>139</i>															2	
3	<i>40</i>		<i>508</i>		<i>139</i>															3	
4	<i>30</i>		<i>509</i>		<i>139</i>															4	
5	<i>20</i>		<i>510</i>		<i>138</i>															5	
6	<i>10</i>		<i>511</i>		<i>138</i>															6	
7	<i>0</i>		<i>512</i>	<i>346</i>	<i>139</i>															7	
8																				8	
9																				9	
10																				10	
11																				11	
12																				12	

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise												STATION NO. <i>64</i>			
CONSC CAST #	LATITUDE		LONGITUDE			DATE			TIME (GMT)		DRY BULB (°C)	Relative Humidity (%)	PRESSURE (mb)	SEA STATE VISIBILITY (deg)	WIND DIRN. (kts)	WIND SPD. (kts)	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID <i>70m-39-M5N</i>	
																					DEG
	<i>65 60 04</i>	<i>40</i>	<i>N</i>	<i>171 59 198</i>	<i>W</i>	<i>12</i>	<i>MAY</i>	<i>14</i>	<i>06 34</i>	<i>1.193</i>	<i>.28</i>	<i>18211</i>			<i>164</i>						
SBE 9+			FLUOR S/N							REMARKS						MAX. DEPTH = <i>57</i> m					
PRESS SN			SBE43-Oxy (prime)																		
PRI TEMP SN			SBE43-Oxy (sec)																		
SEC TEMP SN			Transmissometer																		
PRI COND SN			PAR S/N																		
SEC COND SN																					
Nis	DEPTH	Rosette Notes				Hydro Team-PMEL												Comments			Nis
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No	Chloro-I															No.	
1	BTM	<i>61</i>	<i>39</i>	<i>499</i>	<i>345</i>															1	
2	<i>50</i>	<i>51</i>	<i>900</i>						<i>✓</i>									2			
3	<i>40</i>	<i>41</i>	<i>501</i>						<i>✓</i>									3			
4	<i>30</i>	<i>30</i>	<i>502</i>						<i>✓</i>									4			
5	<i>20</i>	<i>20</i>	<i>503</i>						<i>✓</i>									5			
6	<i>10</i>	<i>10</i>	<i>504</i>						<i>✓</i>									6			
7	<i>6</i>	<i>3</i>	<i>505</i>						<i>✓</i>									7			
8																		8			
9																		9			
10																		10			
11																		11			
12																		12			

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. <i>63</i>								
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB		Relative Humidity		PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)			
	<i>64 59 53.51</i>	N	<i>171 42.68</i>	W	<i>12</i>	MAY	<i>14</i>	<i>04</i>	<i>50</i>	<i>13.91</i>	<i>.28</i>				<i>198</i>	<i>9</i>				<i>72</i>			
SBE 9+			FLUOR S/N	REMARKS												MAX. DEPTH = <i>65</i> m							
PRESS SN			SBE43-Oxy (prime)																				
PRI TEMP SN			SBE43-Oxy (sec)																				
SEC TEMP SN			Transmissometer																				
PRI COND SN			PAR S/N																				
SEC COND SN																							
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL					Comments												Nis		
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No	Lug 01					Chloro-I												No.	
1	BTM	<i>bb</i>		<i>492</i>																		1	
2	50	<i>51</i>		<i>493</i>						✓												2	
3	40	<i>40</i>		<i>494</i>	<i>18</i>					✓												3	
4	30	<i>30</i>		<i>495</i>						✓												4	
5	20	<i>20</i>		<i>496</i>						✓												5	
6	10	<i>10</i>		<i>497</i>						✓												6	
7	0	<i>2</i>		<i>498</i>	<i>344</i>	<i>17</i>				✓												7	
8																						8	
9																						9	
10																						10	
11																						11	
12																						12	

m5

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405				PROJECT & LEG Eco-FOCI Spring Mooring Cruise						STATION NO. 61											
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB		Relative Humidity		PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)					
	62 59 46.72	N	171 26.86	W	12	M A Y	1	4	01 38	11.1	97.29	1015	6						73					
SBE 9+	FLUOR S/N										REMARKS										MAX. DEPTH = 66 m			
PRESS SN	SBE43-Oxy (prime)																							
PRI TEMP SN	SBE43-Oxy (sec)																							
SEC TEMP SN	Transmissometer																							
PRI COND SN	PAR S/N																							
SEC COND SN																								
Nis No.	DEPTH	Rosette Notes		Hydro Team-PMEL												Comments						Nis No.		
DESIRED		SALT	Nut.Btl	O2-Btl.No	Chloro-l																			
1	BTM	69		478																			1	
2	50	50		479							✓												2	
3	40	40		480							✓												3	
4	30	31		481							✓												4	
5	20	20		482							✓												5	
6	10	10		483							✓												6	
7	0	2		484	300							✓												7
8																								8
9																								9
10																								10
11																								11
12																								12

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 60				
CONSC CAST #	LATITUDE		LONGITUDE			DATE		TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	BOTTOM DEPTH	STA. NAME/ID 70M - 5E
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)
61 59 54.02 N		171 15.39 W		12	MAY	14	00	05	11.1	98.29				183	8			72	
SBE 9+		FLUOR S/N		REMARKS										MAX. DEPTH = 63 m					
PRESS SN		SBE43-Oxy (prime)																	
PRI TEMP SN		SBE43-Oxy (sec)																	
SEC TEMP SN		Transmissometer																	
PRI COND SN		PAR S/N																	
SEC COND SN																			
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL										Comments				Nis	
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No	Chloro-l														No.
1	BTM	67	37	471	304												1		
2	50	50		472													2		
3	40	40		473													3		
4	30	30		474													4		
5	20	20		475													5		
6	10	10		476													6		
7	0	2		477													7		
8																	8		
9																	9		
10																	10		
11																	11		
12																	12		

This cast was logged as 70M-37, but it is 70M-5E.

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 59					
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)	DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID 70M-3b
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	
	60 39 43.06 N		171 08.14 W	11	M A Y	14	22 29	1.0	98.29					164	8				72	
SBE 9+			FLUOR S/N		REMARKS										MAX. DEPTH = 65 m					
PRESS SN			SBE43-Oxy (prime)																	
PRI TEMP SN			SBE43-Oxy (sec)																	
SEC TEMP SN			Transmissometer																	
PRI COND SN			PAR S/N																	
SEC COND SN																				
Ns No.	DEPTH	Rosette Notes		Hydro Team-PMEL										Comments				Ns No.		
	DESIRED	SALT	Nut.Btl	O2-Btl.No	Chloro-l															
1	BOT	68		464															1	
2	50	51		465							✓								2	
3	40	41		466							✓								3	
4	30	31		467							✓								4	
5	20	21		468							✓								5	
6	10	10		469							✓								6	
7	0	2		470	303							✓								7
8																				8
9																				9
10																				10
11																				11
12																				12

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 57						
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB		Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*			
	58 59 26 . 16 N		170 54 . 52 W	11	MAY	14	19	54	-10 . 6	99	29			138	4			73 70 m 3 H			
SBE 9+	FLUOR S/N		REMARKS										MAX. DEPTH = 66 m								
PRESS SN	SBE43-Oxy (prime)																				
PRI TEMP SN	SBE43-Oxy (sec)																				
SEC TEMP SN	Transmissometer																				
PRI COND SN	PAR S/N																				
SEC COND SN													Comments					Nis			
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL															Nis		
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No						Chloro-I											No.
1	Bat	69	47	450																	1
2	50	51	451							✓											2
3	40	40	452							✓											3
4	30	30	453							✓											4
5	20	20	454							✓											5
6	10	9	455							✓											6
7	0	2	456	262						✓											7
8																					8
9																					9
10																					10
11																					11
12																					12

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise											STATION NO. 55					
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	
	56 59 14	.81	N	17 02 41	.80	W	11	MAY	14	17 28	0.199	27	238	4					6870	M32	
SBE 9+	FLUOR S/N		REMARKS <i>Vents on Niskins were all open - No Oxygen Sample</i>										MAX. DEPTH = 60 m								
PRESS SN	SBE43-Oxy (prime)																				
PRI TEMP SN	SBE43-Oxy (sec)																				
SEC TEMP SN	Transmissometer																				
PRI COND SN	PAR S/N																				
SEC COND SN																					
Nis No.	DEPTH	Rosette Notes			Hydro Team-PMEL					Comments						Nis No.					
	DESIRED	SALT	Nut.Btl	O2-Btl.No	Chloro-I																
1	Bot			436												1					
2	50			432						139						2					
3	40			438						139						3					
4	30			439						139						4					
5	20			440						138						5					
6	10			441						138						6					
7	0	x 46	442	x 245						139						7					
8																8					
9																9					
10																10					
11																11					
12																12					

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise									STATION NO. <i>54</i>													
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB		Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID						
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*					*	(m)				
<i>55 59 06.35 N</i>	<i>170 14.59 W</i>	<i>11 MAY 14</i>	<i>16 15</i>	<i>1.199</i>	<i>87</i>	<i>210</i>	<i>15</i>	<i>68 70 m31</i>																				
SBE 9+			FLUOR S/N		REMARKS										MAX. DEPTH = <i>62</i> m													
PRESS SN			SBE43-Oxy (prime)																									
PRI TEMP SN			SBE43-Oxy (sec)																									
SEC TEMP SN			Transmissometer																									
PRI COND SN			PAR S/N																									
SEC COND SN																												
Nis No.	DEPTH DESIR	Rosette Notes		Hydro Team-PMEL				Chloro-I								Comments				Nis No.								
1	<i>Bot</i>			<i>429</i>	<i>095</i>																	1						
2	<i>50</i>			<i>430</i>		<i>139</i>																2						
3	<i>40</i>			<i>431</i>		<i>139</i>																3						
4	<i>30</i>			<i>432</i>		<i>139</i>																4						
5	<i>20</i>			<i>433</i>		<i>138</i>																5						
6	<i>10</i>			<i>434</i>		<i>138</i>																6						
7	<i>0</i>			<i>435</i>		<i>139</i>																7						
8																						8						
9																						9						
10																						10						
11																						11						
12																						12						

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 53				
CONSC CAST #	LATITUDE		LONGITUDE		DATE		TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	Type	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	
	54 58 56.97	N	170 19.25	W	11	MAY	14	1445	11.7991	26			215	4				7170M30		
SBE 9+			FLUOR S/N	REMARKS												MAX. DEPTH = 65 m				
PRESS SN			SBE43-Oxy (prime)																	
PRI TEMP SN			SBE43-Oxy (sec)																	
SEC TEMP SN			Transmissometer																	
PRI COND SN			PAR S/N																	
SEC COND SN																				
Nis	DEPTH	Rosette Notes			Hydro Team-PMEL						Comments						Nis			
No.	DESIRED				SALT	Nut.Btl	O2-Btl.No	Chloro-I									No.			
1	Bof				45	422											1			
2	50				423			139									2			
3	40				424			139									3			
4	30				425			139									4			
5	20				426			138									5			
6	10				427			138									6			
7	0				428	244		139									7			
8																	8			
9																	9			
10																	10			
11																	11			
12																	12			

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise						STATION NO. 51													
CONSC CAST #	LATITUDE		LONGITUDE			DATE			TIME (GMT)		DRY BULB		Relative Humidity		PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)				
52 58 37.15 N		170 16.22 W		11	MAY	14	1202	11.998	26	169	7									7370M28				
SBE 9+	FLUOR S/N		REMARKS												MAX. DEPTH = 66 m									
PRESS SN	SBE43-Oxy (prime)																							
PRI TEMP SN	SBE43-Oxy (sec)																							
SEC TEMP SN	Transmissometer																							
PRI COND SN	PAR S/N																							
SEC COND SN																								
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL												Comments						Nis		
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No	Chloro-I																		No.	
1	201		408																				1	
2	50		409		139																		2	
3	40		410		139																		3	
4	30		411		139																		4	
5	20		412		138																		5	
6	10		413		138																		6	
7	0		414 252		139																		7	
8																							8	
9																							9	
10																							10	
11																							11	
12																							12	

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise					STATION NO. 50												
CONSC CAST #	LATITUDE		LONGITUDE			DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	Type	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)		
51 58 26.83 N	170 11.04 W	11	MAY	14	1043	22.2	97	.25		164	7									2370 M 27		
SBE 9+	FLUOR S/N	REMARKS															MAX. DEPTH = 68 m					
PRESS SN	SBE43-Oxy (prime)																					
PRI TEMP SN	SBE43-Oxy (sec)																					
SEC TEMP SN	Transmissometer																					
PRI COND SN	PAR S/N																					
SEC COND SN																						
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL										Comments					Nis			
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No						Chloro-l											No.	
1	Bot		401	254																	1	
2	50		402							139											2	
3	40		403							139											3	
4	30		404							139											4	
5	20		405							138											5	
6	10		406							138											6	
7	0	44	407							139											7	
8																					8	
9																					9	
10																					10	
11																					11	
12																					12	

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405				PROJECT & LEG Eco-FOCI Spring Mooring Cruise						STATION NO. 49																								
CONSC CAST #	LATITUDE		LONGITUDE			DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID															
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*					*	(m)													
	58 58 17.02 N		170 05.31 W	11	MAY	14	09	12	22.6	97				164	7				7370M26																		
SBE 9+			FLUOR S/N	REMARKS																MAX. DEPTH = 64 m																	
PRESS SN			SBE43-Oxy (prime)																																		
PRI TEMP SN			SBE43-Oxy (sec)																																		
SEC TEMP SN			Transmissometer																																		
PRI COND SN			PAR S/N																																		
SEC COND SN																				Comments			Nis														
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL																Nis																	
No.	DESIRED			SALT	Nut.Btl	O2-Btl.No			Chloro-I												No.																
1	Bot			394																	1																
2	50			395					139												2																
3	40			396					139												3																
4	30			397					139												4																
5	20			398					138												5																
6	10			399					138												6																
7	0			400	*119					139												7															
8																						8															
9																						9															
10																						10															
11																						11															
12																						12															

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise						STATION NO. 48																													
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB		Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID 70M-25																		
										DEG	MIN												DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)			
	49	58	08.74	N	169	55.05	W	11	MAY	14	07	59	2.897	.24	150	7	71																							
SBE 9+			FLUOR S/N	REMARKS <i>Upcast very different than down above the thermocline, esp Salinity</i>																		MAX. DEPTH = 64 m																		
PRESS SN			SBE43-Oxy (prime)																																					
PRI TEMP SN			SBE43-Oxy (sec)																																					
SEC TEMP SN			Transmissometer																																					
PRI COND SN			PAR S/N																																					
SEC COND SN																																								
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL												Comments						Nis																		
No.	DESIRED			SALT	Nut.Btl	O2-Btl.No	Chloro-I																		No.															
1	BTM			43	387	132																			1															
2	50				388		139																		2															
3	40				389		139																		3															
4	30				390		139																		4															
5	20				391		138																		5															
6	10				392		138																		6															
7	0				393		139																		7															
8																									8															
9																									9															
10																									10															
11																									11															
12																									12															

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise												STATION NO. <i>47</i>										
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB		Relative Humidity		PRESSURE		SEA STATE	VISIBILITY	WIND DIRN.		WIND SPD.	CLOUD (amt)	Type	WEATHER	BOTTOM DEPTH		STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	(m)						
<i>48 58 02.46 N</i>	<i>169 40.51 W</i>	<i>11 MAY 14</i>	<i>06 32</i>	<i>3.2</i>	<i>97</i>	<i>.24</i>	<i>163</i>	<i>8</i>														<i>70M - 24</i>					
SBE 9+	FLUOR S/N		REMARKS										MAX. DEPTH = <i>64</i> m														
PRESS SN	SBE43-Oxy (prime)																										
PRI TEMP SN	SBE43-Oxy (sec)																										
SEC TEMP SN	Transmissometer																										
PRI COND SN	PAR S/N																										
SEC COND SN																											
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL															Comments					Nis			
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No						Chloro-I																No.	
1	<i>BTM</i>	<i>66</i>		<i>380</i>																						1	
2	<i>50</i>	<i>50</i>		<i>381</i>						✓																2	
3	<i>40</i>	<i>40</i>		<i>382</i>						✓																3	
4	<i>30</i>	<i>31</i>		<i>383</i>						✓																4	
5	<i>20</i>	<i>20</i>		<i>384</i>						✓																5	
6	<i>10</i>	<i>10</i>		<i>385</i>						✓																6	
7	<i>0</i>	<i>2</i>		<i>386</i>	<i>146</i>						✓																7
8																											8
9																											9
10																											10
11																											11
12																											12

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 46														
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID 70M-23								
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)									
	47 57.54	.45	N	169 29.84	w	11	M A Y	14	05 19	3.4	97	23		147 9					69										
SBE 9+			FLUOR S/N		REMARKS										MAX. DEPTH = 62 m														
PRESS SN			SBE43-Oxy (prime)																										
PRI TEMP SN			SBE43-Oxy (sec)																										
SEC TEMP SN			Transmissometer																										
PRI COND SN			PAR S/N																										
SEC COND SN																													
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL										Comments					Nis										
No.	DESIRED			SALT	Nut.Btl	O2-Btl.No			Chloro-I											No.									
1	BTM	66		373	162															1									
2	50	51		374				✓												2									
3	40	41		375				✓												3									
4	30	30		376				✓												4									
5	20	20		377				✓												5									
6	10	10		378				✓												6									
7	0	3		24	379			✓												7									
8																				8									
9																				9									
10																				10									
11																				11									
12																				12									

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. <i>44</i>					
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	
45 58 04.09 N		168 43.75 W		11	MAY	14	02	03	2.9	97	24			148	8				70		
SBE 9+		FLUOR S/N		REMARKS												MAX. DEPTH = 64 m					
PRESS SN		SBE43-Oxy (prime)																			
PRI TEMP SN		SBE43-Oxy (sec)																			
SEC TEMP SN		Transmissometer																			
PRI COND SN		PAR S/N																			
SEC COND SN																					
Nis No.	DEPTH	Rosette Notes		Hydro Team-PMEL				Chloro-l				Comments						Nis No.			
DESIR		SALT	Nut.Btl	O2-Btl.No																	
1	BTM	67	23	359	263														1		
2	50	50		360															2		
3	40	41		361															3		
4	30	29		362															4		
5	20	20		363															5		
6	10	9		364															6		
7	0	2		365															7		
8																			8		
9																			9		
10																			10		
11																			11		
12																			12		

Northern Pintail!

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise												STATION NO. 43		
CONSC CAST #	LATITUDE		LONGITUDE			DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	BOTTOM DEPTH	STA. NAME/ID 70M-21-M4
			DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)		
44 57 50.28 N		16 85 31.17 W		11	MAY	14	00			3.11	95	24			152	9			71	
SBE 9+		FLUOR S/N		REMARKS												MAX. DEPTH = 65 m				
PRESS SN		SBE43-Oxy (prime)																		
PRI TEMP SN		SBE43-Oxy (sec)																		
SEC TEMP SN		Transmissometer																		
PRI COND SN		PAR S/N																		
SEC COND SN																				
Nis No.	DEPTH	Rosette Notes		Hydro Team-PMEL				Chloro-I								Comments				Nis No.
	DESIRED		SALT	Nut.Btl	O2-Btl.No															
1	BIM	68		352															1	
2	50	49		353				✓											2	
3	40	41		354				✓											3	
4	30	31		355				✓											4	
5	20	21		356				✓											5	
6	15	14						✓											6	
7	10	10		357				✓											7	
8	0	3		358	265			✓											8	
9																			9	
10																			10	
11																			11	
12																			12	

Chl Max

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise					STATION NO. 42														
CONSC CAST #	LATITUDE		LONGITUDE			DATE		TIME (GMT)		DRY BULB (`C)	Relative Humidity	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID			
																						DEG	MIN	DEG
43 57 46 . 03 N		168 27 . 99 W		10	MAY	14	21	47	3.6	92 . .	24		15510				71							
SBE 9+			FLUOR S/N	REMARKS										MAX. DEPTH =										
PRESS SN			SBE43-Oxy (prime)											m										
PRI TEMP SN			SBE43-Oxy (sec)																					
SEC TEMP SN			Transmissometer																					
PRI COND SN			PAR S/N																					
SEC COND SN														Comments										
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL																				Nis
No.	DESIRED			SALT	Nut.Btl	O2-Btl.No	Chloro-I															No.		
1	BTM	67		345	277																	1		
2	50	51		346			✓															2		
3	40	41		347			✓															3		
4	30	31		348			✓															4		
5	20	21		349			✓															5		
6	10	11		350			✓															6		
7	0	2		22	351		✓															7		
8																						8		
9																						9		
10																						10		
11																						11		
12																						12		

Harlequin duck way over here!?

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise					STATION NO. 40														
CONSC CAST #												Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	(°C)												(°C)	(mb)
	DEG	MIN		DEG	MIN	DAY	MO	YR	HR	MIN														
41	57	31.45	N	168	36.73	W	10	MAY	14	1757	41.0	89	.	23	151	11			72	M7018				
SBE 9+			FLUOR S/N			REMARKS										MAX. DEPTH = 66 m								
PRESS SN			SBE43-Oxy (prime)																					
PRI TEMP SN			SBE43-Oxy (sec)																					
SEC TEMP SN			Transmissometer																					
PRI COND SN			PAR S/N																					
SEC COND SN																								
Nis No.	DEPTH	Rosette Notes		Hydro Team-PMEL															Comments					Nis No.
	DESIRED			SALT	Nut.Btl	O2-Btl.No			Chloro-l															
1	Bat			21	331	197															1			
2	50			332					281												2			
3	40			333					282												3			
4	30			334					285												4			
5	20			335					281												5			
6	10			336					283												6			
7	0			337					283												7			
8																					8			
9																					9			
10																					10			
11																					11			
12																					12			

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 38						
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	
	39 57 30 . 24	N	16 75 9 . 02	W	10	MAY	14	15	09	14 . 0	85	24			16915				7270 m/6		
SBE 9+			FLUOR S/N			REMARKS										MAX. DEPTH = 6.5 m					
PRESS SN			SBE43-Oxy (prime)			2° Salinity wonky on upcast															
PRI TEMP SN			SBE43-Oxy (sec)			ditto for summary															
SEC TEMP SN			Transmissometer																		
PRI COND SN			PAR S/N																		
SEC COND SN																					
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL										Comments					Nis		
No.	DESIRED			SALT	Nut.Btl	O2-Btl.No			Chloro-l											No.	
1	30t			317	220															1	
2	57			318					281											2	
3	40			319					282											3	
4	30			320					285											4	
5	20			321					281											5	
6	10			322					283											6	
7	0	20		323					283											7	
8																				8	
9																				9	
10																				10	
11																				11	
12																				12	

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise					STATION NO. 36													
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (faint)	Type	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)			
37 57 30.26 N	167 20.60 W	10	MAY	14	1211	40	84	24		17410					7170M14				MAX. DEPTH = 67 m				
SBE 9+	FLUOR S/N	REMARKS																					
PRESS SN	SBE43-Oxy (prime)																						
PRI TEMP SN	SBE43-Oxy (sec)																						
SEC TEMP SN	Transmissometer																						
PRI COND SN	PAR S/N																						
SEC COND SN																							
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL															Comments			Nis No.	
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No	Chloro-l																		
1	Bot	19	303	161																			1
2	50		304																				2
3	40		305																				3
4	30		306																				4
5	20		307																				5
6	10		308																				6
7	0		309																				7
8																							8
9																							9
10																							10
11																							11
12																							12

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 35																
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB (°C)		Relative Humidity	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID									
																							DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN
	36	57	31	.35	N	167	01	.99	W	10	M A Y	14	1053	3.396	.25	157	8			7070M13											
SBE 9+	FLUOR S/N									REMARKS										MAX. DEPTH =		64 m									
PRESS SN	SBE43-Oxy (prime)																														
PRI TEMP SN	SBE43-Oxy (sec)																														
SEC TEMP SN	Transmissometer																														
PRI COND SN	PAR S/N																														
SEC COND SN																															
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL															Comments					Nis							
No.	DESIRED	SALT		Nut.Btl	O2-Btl.No						Chloro-l															No.					
1	24f																									1					
2	50										296															2					
3	40										297					139										3					
4	30										298					38										4					
5	20										299					139										5					
6	10										300					138										6					
7	0										301					168					138										7
8																															8
9																															9
10																															10
11																															11
12																															12

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise						STATION NO. 34													
CONSC CAST #	LATITUDE		LONGITUDE			DATE			TIME (GMT)		DRY BULB		Relative Humidity		PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
											(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)				
35 57 25.71 N	166 48.41 W	10 MAY 14	09 34	4.696	.26	151	.8	69	70 M12	MAX. DEPTH = 65 m														
SBE 9+			FLUOR S/N	REMARKS																				
PRESS SN			SBE43-Oxy (prime)																					
PRI TEMP SN			SBE43-Oxy (sec)																					
SEC TEMP SN			Transmissometer																					
PRI COND SN			PAR S/N																					
SEC COND SN																								
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL										Comments				Nis						
No.	DESIRED			SALT	Nut.Btl	02-Btl.No		Chloro-I									No.							
1	Bef			289	172												1							
2	50			290			139										2							
3	40			291			138										3							
4	30			292			139										4							
5	20			293			138										5							
6	10			294			138										6							
7	0			18	295		139										7							
8																	8							
9																	9							
10																	10							
11																	11							
12																	12							

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise					STATION NO. 33												
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (cm)	BOTTOM DEPTH	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)			
34	S 72° 26.25'	N	166° 30.78'	W	10	MAY	14	08	19	3.5796	.25	145	7	69	70	M/1	MAX. DEPTH = 59	m				
SBE 9+	FLUOR S/N		REMARKS																			
PRESS SN	SBE43-Oxy (prime)																					
PRI TEMP SN	SBE43-Oxy (sec)																					
SEC TEMP SN	Transmissometer																					
PRI COND SN	PAR S/N																					
SEC COND SN																						
Nis No.	DEPTH	Rosette Notes		Hydro Team-PMEL					Chloro-l					Comments					Nis No.			
	DESIRED			SALT	Nut.Btl	O2-Btl.No																
1	BTM			282																		1
2	50			283																		2
3	10			284																		3
4	30			285																		4
5	20			286																		5
6	10			287																		6
7	0			288	37																	7
8																						8
9																						9
10																						10
11																						11
12																						12

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405		PROJECT & LEG Eco-FOCI Spring Mooring Cruise						STATION NO. 31													
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	Type	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)			
133	57	19	.33	N	166	19	.58	W	10	MAY	14	06	49	4.0	96	25	153	5	69	70M10			
																				MAX. DEPTH = 65 m			
SBE 9+			FLUOR S/N		REMARKS																		
PRESS SN			SBE43-Oxy (prime)																				
PRI TEMP SN			SBE43-Oxy (sec)																				
SEC TEMP SN			Transmissometer																				
PRI COND SN			PAR S/N																				
SEC COND SN																							
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL													Comments	Nis No.					
No.	DESIRED			SALT	Nut.Btl	O2-Btl.No														Chloro-I			
1	BTM	65	17	275	100															139			1
2	50	50		276																138			2
3	40	41		277																138			3
4	30	31		278																139			4
5	20	20		279																138			5
6	10	10		280																139			6
7	5	3		281																			7
8																							8
9																							9
10																							10
11																							11
12																							12

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 30							
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB (°C)	Relative Humidity (%)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)		STA. NAME/ID
																				DEG	MIN	
132 57 19.25	N	166 00.61	W	10	MAY	14	05	36	13.7	95	25	147	6				68	70 M 9	MAX. DEPTH = 64 m			
SBE 9+	FLUOR S/N		REMARKS																			
PRESS SN	SBE43-Oxy (prime)																					
PRI TEMP SN	SBE43-Oxy (sec)																					
SEC TEMP SN	Transmissometer																					
PRI COND SN	PAR S/N																					
SEC COND SN																						
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL					Chloro-l					Comments					Nis			
No.	DESIR			SALT	Nut.Btl	O2-Btl.No																No.
1	BTM	64			268																	1
2	50	51			269																	2
3	40	41			270																	3
4	30	30			271																	4
5	20	20			272																	5
6	10	10			273																	6
7	0	2			274	107																7
8																						8
9																						9
10																						10
11																						11
12																						12

VESSEL		CRUISE ID			PROJECT & LEG					STATION NO.																									
NOAAS Oscar Dyson		DY1405			Eco-FOCI Spring Mooring Cruise					29																									
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (cm)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID														
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)															
31	57	15.68	N	165	44.85	W	10	MAY	14	0418	4.0	94	25		170	5			67	70M8															
SBE 9+				FLLOR S/N	REMARKS Rinsed secondary O ₂ with triton solution prior to cast to see if sensitivity improves															MAX. DEPTH = 67 m															
PRESS SN				SBE43-Oxy (prime)																															
PRI TEMP SN				SBE43-Oxy (sec)																															
SEC TEMP SN				Transmissometer																															
PRI COND SN				PAR S/N																															
SEC COND SN																																			
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL															Comments		Nis														
No.	DESIRED			SALT	Nut.Btl	O2-Btl.No						Chloro-I								No.															
1	BTM	67		261	118															1															
2	50	49		262								✓								2															
3	40	39		263								✓								3															
4	30	31		264								✓								4															
5	20	20		265								✓								5															
6	10	10		266								✓								6															
7	0	2		16	267							✓								7															
8																				8															
9																				9															
10																				10															
11																				11															
12																				12															

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 28									
CONSC CAST #	LATITUDE		LONGITUDE			DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
																							DEG	MIN
30	57.06.47	N	165	36.40	W	10	M	A	Y	14	0302	41.4	94.1	25	179	7			70	70M7				
SBE 9+	FLUOR S/N			SBE43-Oxy (prime)			SBE43-Oxy (sec)			Transmissometer			PAR S/N			REMARKS			MAX. DEPTH = 65 m					
PRESS SN																								
PRI TEMP SN																								
SEC TEMP SN																								
PRI COND SN																								
SEC COND SN																								
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL															Comments			Nis		
No.	DESIRED			SALT	Nut.Btl	02-Btl.No					Chloro-I											No.		
1	55M	66			254																	1		
2	50	50			255						✓											2		
3	40	41			256						✓											3		
4	30	30			257						✓											4		
5	20	20			258						✓											5		
6	10	10			259						✓											6		
7	0	2			260	29					✓											7		
8																						8		
9																						9		
10																						10		
11																						11		
12																						12		

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 27						
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH	STA. NAME/ID 70M6	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)		
	29	56	59.52	N	165	06.91	W	10	MAY 14	6103	5.2	89	27	196	4				MAX. DEPTH = 68 m		
SBE 9+					FLUOR S/N																
PRESS SN					SBE43-Oxy (prime)																
PRI TEMP SN					SBE43-Oxy (sec)																
SEC TEMP SN					Transmissometer																
PRI COND SN					PAR S/N																
SEC COND SN																					
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL															Comments	Nis	
No.	DESIRED			SALT	Nut.Btl	O2-Btl.No				Chloro-l										No.	
1	BTM	68	15	247	292															1	
2	50	51		248						✓										2	
3	40	40		249						✓										3	
4	30	30		250						✓										4	
5	20	21		251						✓										5	
6	10	10		252						✓										6	
7	0	2		253						✓										7	
8																				8	
9																				9	
10																				10	
11																				11	
12																				12	

lots of jellyfish - use downcast only for bottle data
 both primary & secondary conductivity bad on upcast

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise												STATION NO. <i>26</i>											
CONSC CAST #	LATITUDE		LONGITUDE			DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID							
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)									
<i>28 56 51.73 N</i>	<i>16 50 7.31 W</i>	<i>09 MAY 14</i>	<i>23 54</i>	<i>4.1</i>	<i>89</i>	<i>26</i>	<i>217</i>	<i>4</i>												<i>74 70 M5</i>									
SBE 9+			FLUOR S/N		REMARKS										MAX. DEPTH = <i>66</i> m														
PRESS SN			SBE43-Oxy (prime)																										
PRI TEMP SN			SBE43-Oxy (sec)																										
SEC TEMP SN			Transmissometer																										
PRI COND SN			PAR S/N																										
SEC COND SN																													
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL														Comments					Nis						
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No					Chloro-I											No.									
1	<i>BTM</i>	<i>67</i>		<i>240</i>																1									
2	<i>50</i>	<i>49</i>		<i>241</i>																2									
3	<i>40</i>	<i>39</i>		<i>242</i>																3									
4	<i>30</i>	<i>31</i>		<i>243</i>																4									
5	<i>20</i>	<i>20</i>		<i>244</i>																5									
6	<i>10</i>	<i>10</i>		<i>245</i>																6									
7	<i>0</i>	<i>3</i>		<i>246</i>	<i>293</i>																7								
8																					8								
9																					9								
10																					10								
11																					11								
12																					12								

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise												STATION NO. 25							
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB		Relative Humidity		PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*		(m)			
	27 56 54.78	N	164 49.39	W	09	M A Y	1	4	22 35	14.590	26			240	6				72 70 M4					
SBE 9+	FLUOR S/N		SBE43-Oxy (prime)		REMARKS										MAX. DEPTH = 66 m									
PRESS SN			SBE43-Oxy (sec)																					
PRI TEMP SN			Transmissometer																					
SEC TEMP SN			PAR S/N																					
PRI COND SN																								
SEC COND SN																								
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL															Comments			Nis		
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No	Chloro-I																		No.	
1	605	67		233	294																			1
2	50	51		234		✓																		2
3	40	40		235		✓																		3
4	30	31		236		✓																		4
5	20	20		237		✓																		5
6	10	11		238		✓																		6
7	0	3		14	239	✓																		7
8																								8
9																								9
10																								10
11																								11
12																								12

washed salinity out, looks good

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 24						
CONSC CAST #	LATITUDE		LONGITUDE			DATE		TIME (GMT)		DRY BULB (°C)	Relative Humidity (%)	PRESSURE (mb)	SEA STATE •	VISIBILITY •	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) •	TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
																					DEG
	26 56 48.54	N	164 35.02	W	09	MAY	14	21	06	4.5	87	26	226	8		73.1	70m3				
SBE 9+			FLUOR S/N				REMARKS										MAX. DEPTH = 67 m				
PRESS SN			SBE43-Oxy (prime)																		
PRI TEMP SN			SBE43-Oxy (sec)																		
SEC TEMP SN			Transmissometer																		
PRI COND SN			PAR S/N																		
SEC COND SN																					
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL										Comments					Nis		
No.	DESIRED			SALT	Nut.Btl	O2-Btl.No			Chloro-I											No.	
1	BOT	68		226																1	
2	50	51		227						✓										2	
3	40	71		228						✓										3	
4	30	31		229						✓										4	
5	20	20		230						✓										5	
6	10	10		231						✓										6	
7	0	2		232	287						✓										7
8																					8
9																					9
10																					10
11																					11
12																					12

use secondary salinity for upcast bottle data.

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405				PROJECT & LEG Eco-FOCI Spring Mooring Cruise												STATION NO. 23						
CONSC CAST #	LATITUDE		LONGITUDE			DATE			TIME (GMT)		DRY BULB		Relative Humidity	Pressure	Sea State	Visibility	Wind Dirn.	Wind Spd.	Cloud (amt)	Type	Weather	Bottom Depth	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)					
025 56:45.87 N	164 20.15 W	09	M A Y	14	19 35	5.0	85	26	21 8	6									74	m2w					
SBE 9+	FLUOR S/N	REMARKS <i>Cast 24 had one bottle mistrip, out 7 bottles instead of 8. Redoing cast</i>										MAX. DEPTH = 65 m													
PRESS SN	SBE43-Oxy (prime)																								
PRI TEMP SN	SBE43-Oxy (sec)																								
SEC TEMP SN	Transmissometer																								
PRI COND SN	PAR S/N																								
SEC COND SN																									
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL															Comments			Nis			
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No						Chloro-I	Lugol														No.
1	Bot	13	219	288																					1
2	50	220																					2		
3	40/38	221							10											<i>f1 spike @ 38</i>			3		
4	30	222																					4		
5	20	223																					5		
6	10	224																					6		
7	0	225							9											<i>Didn't see the surface bottle used bucket</i>			7		
8																							8		
9																							9		
10																							10		
11																							11		
12																							12		

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 023											
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB		Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID				
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	•	•	(deg)	(kts)	•	•	•	(m)						
024	56 46.00	N	164 19.92	W	09	MAY	14	19	13	4.6	87.	25		218	6			73	M2W							
SBE 9+			FLUOR S/N																MAX. DEPTH = 66 m							
PRESS SN			SBE43-Oxy (prime)																							
PRI TEMP SN			SBE43-Oxy (sec)																							
SEC TEMP SN			Transmissometer																							
PRI COND SN			PAR S/N																							
SEC COND SN																										
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL															Comments				Nis			
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No						Chloro-l															No.	
1	Bot		219	288																					1	
2	50		220							138															2	
3	40		221																						3	
4	38		—	—						138	10															4
5	30		222							139																5
6	20		223							138																6
7	10		224							138																7
8	0		225							139	9															8
9																										9
10																										10
11																										11
12																										12

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 021																	
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID											
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	•	•	(deg)	(kts)	•	•	•	(m)												
	022 56 56.5	N	163 49.49	W	09	MAY	14	14	48	3.8	94	23	23	33	6	70	M2E															
SBE 9+			FLUOR S/N	REMARKS													MAX. DEPTH = 604 m															
PRESS SN			SBE43-Oxy (prime)																													
PRI TEMP SN			SBE43-Oxy (sec)																													
SEC TEMP SN			Transmissometer																													
PRI COND SN			PAR S/N																													
SEC COND SN																																
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL										Comments					Nis													
No.	DESIRED			SALT	Nut.Btl	O2-Btl.No			Chloro-I	Lug											No.											
1	But			205	290																1											
2	50			206					139												2											
3	40			207					138												3											
4	30			208					137												4											
5	20			209					138	6											5											
6	10			210					138												6											
7	0			211					139	5											7											
8																					8											
9																					9											
10																					10											
11																					11											
12																					12											

70MM24

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405				PROJECT & LEG Eco-FOCI Spring Mooring Cruise						STATION NO. 020																
CONSC CAST #	LATITUDE		LONGITUDE			DATE			TIME (GMT)		DRY BULB		Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH		STA. NAME/ID				
																						DEG	MIN		DEG	MIN	DAY	MO
021	57	01	.05	N	16	41	2.	64	W	09	M A Y	14	12	52	3.9	90	23	24	9	8	69	74M112	4					
SBE 9+				FLUOR S/N																			MAX. DEPTH = 64 m					
PRESS SN				SBE43-Oxy (prime)																								
PRI TEMP SN				SBE43-Oxy (sec)																								
SEC TEMP SN				Transmissometer																								
PRI COND SN				PAR S/N																								
SEC COND SN																												
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL												Comments						Nis						
No.	DESIRED			SALT	Nut.Btl	02-Btl.No			Chloro-I	Lugol														No.				
1	Bat				198																			1				
2	50				199					281														2				
3	40				200					283														3				
4	30				201					285														4				
5	20				202					281		4													5			
6	10			11	203	286				283														6				
7	0				204					283		3													7			
8																												8
9																												9
10																												10
11																												11
12																												12

019

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 14-BSM-2A						
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	•	•	(deg)	(kts)	•				
SBE 9+	19 56 52.22 N		16 40 2.63 W		09	MAY	14	09	20	3.891	23		24	711					72		
PRESS SN										REMARKS					MAX. DEPTH = 61 m						
PRI TEMP SN										Post Deploy CTD at BSM-2A											
SEC TEMP SN										CTD at depth off by ~2 minutes											
PRI COND SN																					
SEC COND SN																					
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL										Comments					Nis		
No.	DESIRED			SALT	Nut.Btl	02-Btl.No	DIC	Chloro-I												No.	
1	61			185, 186, 187											truplicate and for ISUS					1	
2	24			10				28												2	
3	24							285												3	
4	24							285												4	
5	13							281												5	
6	13							283B												6	
7	13							283A												7	
8	0			279, 280, 281			✓✓✓								DIC for bottom O ₂ for benthic truplicate and for ISUS					8	
9	0			188, 189, 190																9	
10																				10	
11																				11	
12																				12	

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 016												
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH	STA. NAME/ID								
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*				*	(m)						
016	54	S	2.19	N	165	40.07	W	08	MAY 14	1320	4.287	19	26	615				142	163									
SBE 9+			FLUOR S/N	REMARKS										MAX. DEPTH = 136 m														
PRESS SN			SBE43-Oxy (prime)																									
PRI TEMP SN			SBE43-Oxy (sec)																									
SEC TEMP SN			Transmissometer																									
PRI COND SN			PAR S/N																									
SEC COND SN																												
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL														Comments			Nis							
No.	DESIRED			SALT	Nut.Btl	02-Btl.No	Chloro-I														No.							
1	<i>Bot</i>	<i>135</i>																			1							
2	100						<i>157</i>														2							
3	75						<i>158</i>														3							
4	50						<i>159</i>														4							
5	40						<i>160</i>				<i>281</i>										5							
6	30						<i>161</i>				<i>282</i>										6							
7	20						<i>162</i>				<i>283</i>										7							
8	10						<i>163</i>				<i>281</i>										8							
9	0						<i>164</i>				<i>190</i>				<i>283</i>						9							
10																					10							
11																					11							
12																					12							

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 015							
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	BOTTOM DEPTH (m)	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*			*		
0 55 55.88 N		165 28.35 W		08	MAY	14	11	52	3.891	.	19			26716			125 UBN4					
SBE 9+			FLUOR S/N							REMARKS								MAX. DEPTH = 120 m				
PRESS SN			SBE43-Oxy (prime)																			
PRI TEMP SN			SBE43-Oxy (sec)																			
SEC TEMP SN			Transmissometer																			
PRI COND SN			PAR S/N																			
SEC COND SN																						
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL													Comments		Nis			
No.	DESIRED			SALT	Nut.Btl	O2-Btl.No																No.
1	Bot			148	276																	1
2	100			149																		2
3	75			150																		3
4	50			151			281															4
5	40			152			282															5
6	30			153			283															6
7	20			154			281															7
8	10			8	155		283															8
9	0			156			283															9
10																						10
11																						11
12																						12

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405				PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 014													
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID								
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)									
014	54	59	.24	N	165	16	.95	W	08	M A Y 1 4	1042	4.381	19	26	15				116	UBMS									
SBE 9+			FLUOR S/N		REMARKS															MAX. DEPTH = 109 m									
PRESS SN			SBE43-Oxy (prime)																										
PRI TEMP SN			SBE43-Oxy (sec)																										
SEC TEMP SN			Transmissometer																										
PRI COND SN			PAR S/N																										
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL															Comments		Nis								
No.	DESIRED			SALT	Nut.Btl	O2-Btl.No			Chloro-I													No.							
1	Bot			139																		1							
2	100			140																		2							
3	75			141																		3							
4	50			142																		4							
5	40			143																		5							
6	30			144																		6							
7	20			145																		7							
8	10			146	233																	8							
9	0			147																		9							
10																						10							
11																						11							
12																						12							

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. <i>013</i>						
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*				
<i>013 55 02.89 N</i>	<i>165 05.92 W</i>	<i>08</i>	<i>MAY</i>	<i>14</i>	<i>0923</i>	<i>31.6</i>	<i>89</i>	<i>19</i>	<i>266</i>	<i>9</i>	<i>106</i>	<i>MAX. DEPTH = 106 m</i>									
SBE 9+	FLUOR S/N	REMARKS																			
PRESS SN	SBE43-Oxy (prime)																				
PRI TEMP SN	SBE43-Oxy (sec)																				
SEC TEMP SN	Transmissometer																				
PRI COND SN	PAR S/N																				
SEC COND SN																					
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL													Comments		Nis		
No.	DESIR	SALT	Nut.Btl	O2-Btl.No	Chloro-l															No.	
1	<i>Bot</i>	<i>7</i>	<i>131</i>	<i>243</i>																1	
2	<i>75</i>	<i>132</i>																2			
3	<i>50</i>	<i>133</i>						<i>281</i>										3			
4	<i>40</i>	<i>134</i>						<i>282</i>										4			
5	<i>30</i>	<i>135</i>						<i>285</i>										5			
6	<i>20</i>	<i>136</i>						<i>281</i>										6			
7	<i>10</i>	<i>137</i>						<i>283</i>										7			
8	<i>0</i>	<i>138</i>						<i>283</i>										8			
9																		9			
10																		10			
11																		11			
12																		12			

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 011						
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*				
011	54	49	.53	N	16	45	3	.47	W	08	MAY	14	06	18	4	.186	.18	286	09	74	UBED2
SBE 9+			FLUOR S/N		REMARKS										MAX. DEPTH = 67.5 m						
PRESS SN			SBE43-Oxy (prime)																		
PRI TEMP SN			SBE43-Oxy (sec)																		
SEC TEMP SN			Transmissometer																		
PRI COND SN			PAR S/N																		
SEC COND SN																					
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL										Comments					Nis		
No.	DESIRED			SALT	Nut.Btl	02-Btl.No			Chloro-I											No.	
1	BTM	71			116	222														1	
2	50	51			117															2	
3	40	39			118															3	
4	30	30			119																
5	20	19			120																
6	10	10			121																
7	0	2		b	122																
8																				8	
9																				9	
10																				10	
11																				11	
12																				12	

AVERY® 55100™



VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 010								
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)				
010	54	42	93	N	16	44	7	04	W	08	MAY	14	05	08	45	76	19	298	11	47	VIBEI			
SBE 9+			FLUOR S/N								REMARKS						MAX DEPTH = 388 m							
PRESS SN			SBE43-Oxy (prime)																					
PRI TEMP SN			SBE43-Oxy (sec)																					
SEC TEMP SN			Transmissometer																					
PRI COND SN			PAR S/N																					
SEC COND SN																								
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL												Comments				Nis				
No.	DESIR	SALT	Nut.Btl	02-Btl.No					Chloro-I													No.		
1	BTM	41		111															Broken				1	
2	30	31		112																			2	
3	20	20		113																			3	
4	10	10		114																			4	
5	0	3		115	088																			5
6																								6
7																								7
8																								8
9																								9
10																								10
11																								11
12																								12

Abby opened a new file on the event logger
 Do there might be some events under 003 + 004 file index

Drifter
136874

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 009																					
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	Type	WEATHER	BOTTOM DEPTH	STA. NAME/ID																
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)																	
009	54	17.91	N	164	44.31	W	08	MAY	14	0136	14.0	83	17	31320					84	UP3A																	
SBE 9+			FLUOR S/N	REMARKS																MAX. DEPTH = 77 m																	
PRESS SN			SBE43-Oxy (prime)																																		
PRI TEMP SN			SBE43-Oxy (sec)																																		
SEC TEMP SN			Transmissometer																																		
PRI COND SN			PAR S/N																																		
SEC COND SN																				Comments			Nis														
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL																		No.															
No.	DESIR ED			SALT	Nut.Btl	02-Btl.No	Chloro-I																														
1	BTM	77	5	104	219																	1															
2	50	50		105																		2															
3	40	40		106																		3															
4	30	30		107																		4															
5	20	20		108																		5															
6	10	10		109																		6															
7	0			110																		7															
8																						8															
9																						9															
10																						10															
11																						11															
12																						12															

No Che

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VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405				PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 008												
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB		Relative Humidity		PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID					
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)								
008	54	26	.26	N	164	58	.86	W	07	M A Y	14	2307	4	181	17	32815			56	UBS1								
SBE 9+			FLUOR S/N		REMARKS														MAX. DEPTH = 47 m									
PRESS SN			SBE43-Oxy (prime)																									
PRI TEMP SN			SBE43-Oxy (sec)																									
SEC TEMP SN			Transmissometer																									
PRI COND SN			PAR S/N																									
SEC COND SN																												
Nis No.	DEPTH	Rosette Notes		Hydro Team-PMEL															Comments			Nis No.						
	DESIR		SALT	Nut.Btl	02-Btl.No																							
1	BTM	47		99			✓													leaded - no sample	1							
2	30	32		100			✓														2							
3	20	21		161			✓														3							
4	10	10		162			✓														4							
5	0	2		163	127		✓														5							
6																					6							
7																					7							
8																					8							
9																					9							
10																					10							
11																					11							
12																					12							

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VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. 007						
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	Type	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	
007	54	25.22	N	165	08.53	W	07	MAY	14	21 23	3.9	82	17	338	16				135	0052	
SBE 9+			FLUOR S/N	REMARKS														MAX. DEPTH = 129 m			
PRESS SN			SBE43-Oxy (prime)																		
PRI TEMP SN			SBE43-Oxy (sec)																		
SEC TEMP SN			Transmissometer																		
PRI COND SN			PAR S/N																		
SEC COND SN																					
Nis No.	DEPTH	Rosette Notes		Hydro Team-PMEL										Comments					Nis No.		
	DESIRED	SALT	Nut.Btl	02-Btl.No	Chloro-l																
1	80M	129		90	224																1
2	100	101		91																	2
3	75	75		92																	3
4	50	51		93		✓															4
5	40	41		94		✓															5
6	30	31		95		✓										Note sample contaminated with 30m water in btl, 50m not contaminated but has unknown lesser volume					6
7	20	22		96		✓															7
8	10	10	4	97		✓															8
9	0	2		98		✓															9
10																					10
11																					11
12																					12

NM

oops, didn't change cast # in event logger
logged as 006

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. <i>006</i>									
CONSC CAST #	<i>5422.49</i>		<i>16516.67</i>		<i>05/07/14</i>			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*					*	(m)	
<i>006</i>	<i>54</i>	<i>22.49</i>	<i>N</i>	<i>1651</i>	<i>6.67</i>	<i>07</i>	<i>MAY</i>	<i>14</i>	<i>20</i>	<i>31</i>	<i>3.8</i>	<i>83</i>	<i>16</i>	<i>314</i>	<i>16</i>			<i>167</i>	<i>UBS3</i>	MAX. DEPTH = <i>159</i> m				
SBE 9+			FLUOR S/N		REMARKS <i>calm-ish</i>																			
PRESS SN			SBE43-Oxy (prime)																					
PRI TEMP SN			SBE43-Oxy (sec)																					
SEC TEMP SN			Transmissometer																					
PRI COND SN			PAR S/N																					
SEC COND SN													Comments				Nis							
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL																	Nis			
No.	DESIRED			SALT	Nut.Btl	O2-Btl.No						Chloro-I								No.				
1	<i>85</i>	<i>159</i>																		1				
2	<i>100</i>	<i>99</i>																		2				
3	<i>75</i>	<i>75</i>																		3				
4	<i>50</i>	<i>51</i>										✓								4				
5	<i>40</i>	<i>40</i>										✓								5				
6	<i>30</i>	<i>30</i>										✓								6				
7	<i>20</i>	<i>21</i>										✓								7				
8	<i>10</i>	<i>11</i>										✓								8				
9	<i>0</i>	<i>2</i>					<i>89</i>	<i>266</i>						✓								9		
10																		10						
11																		11						
12																		12						

assume primary oxygen is correct
secondary 80 lower

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VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. <i>003</i>						
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	Type	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	
<i>003 54 28.37 N</i>		<i>166 02.25 W</i>		<i>07</i>	<i>MAY</i>	<i>14</i>	<i>12</i>	<i>57</i>	<i>3.7</i>	<i>76</i>	<i>15</i>			<i>314 7</i>					<i>S 36 UW82</i>		
SBE 9+		FLUOR S/N		REMARKS													MAX. DEPTH = <i>531</i> m				
PRESS SN		SBE43-Oxy (prime)																			
PRI TEMP SN		SBE43-Oxy (sec)																			
SEC TEMP SN		Transmissometer																			
PRI COND SN		PAR S/N																			
SEC COND SN																					
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL										Comments					Nis		
No.	DESIRED	SALT	Nut.Btl	02-Btl.No	Chloro-I															No.	
1	<i>Bot</i>		<i>51</i>	<i>102</i>																1	
2	<i>300</i>		<i>52</i>																	2	
3	<i>150</i>		<i>53</i>																	3	
4	<i>75</i>		<i>54</i>																	4	
5	<i>50</i>		<i>55</i>																	5	
6	<i>40</i>		<i>56</i>																	6	
7	<i>30</i>		<i>57</i>																	7	
8	<i>20</i>		<i>58</i>																	8	
9	<i>10</i>		<i>59</i>																	9	
10	<i>0</i>		<i>2</i>	<i>60</i>																10	
11																				11	
12																				12	

VESSEL NOAAS Oscar Dyson			CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise						STATION NO. <i>002</i>												
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		DRY BULB		Relative Humidity		PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MN	(°C)	(°C)	(mb)	•	•	(deg)	(kts)	•	•	•	(m)				
0 0 2 5 4 3 4 . 9 6 N		1 6 6 0 7 . 5 8 W		0 7	M A Y	1 4	1 1 0 1		3 . 4 7 5 . 1 5						3 0 2 1 0				4 1 3	U B w 3				
SBE 9+			FLUOR S/N			REMARKS										MAX. DEPTH = 405 m								
PRESS SN			SBE43-Oxy (prime)																					
PRI TEMP SN			SBE43-Oxy (sec)																					
SEC TEMP SN			Transmissometer																					
PRI COND SN			PAR S/N																					
SEC COND SN																								
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL										Comments						Nis				
No.	DESIRED	SALT	Nut.Btl	02-Btl.No	Chloro-I																		No.	
1	<i>Bot</i>	400		41																			1	
2	200			42																			2	
3	100			43													<i>Leak</i>						3	
4	75			44																			4	
5	50			45	381												<i>Leak</i>						5	
6	40			46	382																		6	
7	30			47	385																		7	
8	20			48	381																		8	
9	10			49	383																		9	
10	0			50	212	383																		10
11																								11
12																								12

VESSEL NOAAS Oscar Dyson		CRUISE ID DY1405			PROJECT & LEG Eco-FOCI Spring Mooring Cruise										STATION NO. <u>001</u>						
CONSC CAST #	LATITUDE		LONGITUDE		DATE			TIME (GMT)		AIR TEMP DRY BULB	Relative Humidity	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*				
001	54 41.24	N	166 14.09	W	07	MAY	14	0847	32.74	14	33211							291	UBW4		
SBE 9+	<u>0291</u>		FLUOR S/N	FLNTURD															MAX. DEPTH = 284 m		
PRESS SN			SBE43-Oxy (prime)	<u>0904</u>																	
PRI TEMP SN	<u>2376</u>		SBE43-Oxy (sec)	<u>0910</u>																	
SEC TEMP SN	<u>4379</u>		Transmissometer																		
PRI COND SN	<u>2985</u>		PAR S/N	<u>4603</u>																	
SEC COND SN	<u>3127</u>		TURB	FLNTURD-2057															JO-PAR		
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL										Comments					Nis		
No.	DESIRED			SALT	Nut.Btl	O2-Btl.No			Chloro-l											No.	
1	Bot			<u>31</u>																1	
2	200			<u>32</u>																2	
3	100			<u>33</u>																3	
4	75			<u>34</u>																4	
5	50	LEAKED		<u>35</u>					<u>281</u>											5	
6	40			<u>36</u>					<u>282</u>											6	
7	30			<u>37</u>					<u>285</u>											7	
8	20			<u>38</u>					<u>281</u>											8	
9	10			<u>39</u>					<u>283</u>											9	
10	0			<u>40</u>					<u>283</u>											10	
11																				11	
12																				12	