VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DBO/FOCI	CTD073	GA19_A4_BT1

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
073	57	01.97	N	152	59.33	W	24	SEP	20	18	08	11.1	78	989	319	7.3	81.3	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson
☐			
☐			

WEATHER OBS: **SFC/Bottom Temp.** MAX. DEPTH = 75.6

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V	>10 dup vol	POC 500 ml		Comments	Nis No.
1	NO SAMPLES													1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	FOCI/DBO	CTD072	19SH-1A/20SH-1A

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
072	54	51.41	N	158	59.97	W	22	09	20	16	31	12.1	76	991	321	16	75	SHP-1A

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX DEPTH = 65.5

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			x273										1
2	Bot													2
3	45			x274										3
4	45						290							4
5	30			x275										5
6	30						290							6
7	15			x276										7
8	15						290							8
9	0		x210	x279										9
10	0				x318		290							10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	DBO/FOCI	CTD071	M2

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
071	56	52.35	N	164	02.61	W	20	Sep	20	16	08	9.2	086	999	125	25	79.0	

	SBE 9+		FLUOR S/N
	PRESS SN		SBE43-Oxy (prim
	PRI TEMP SN		SBE43-Oxy (sec)
	SEC TEMP SN		Transmissometer
	PRI COND SN		PAR S/N
	SEC COND SI		O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX DEPTH = 65.5

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GANN Phyto ~~GFF Dup V~~ ~~>10 dup vol~~		POC 500 ml	CO_2	Comments	Nis No.
1	Bot			x 268								x TRIPLICATE CO_2		1
2	Bot				x 263									2
3	45			x 269										3
4	45						290							4
5	30			x 270										5
6	30						290							6
7	15			x 271					x					7
8	15				x 319		290							8
9	0			x 272										9
10	0						290		x					10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	DBO/FOCI	CTD070	M2 Box 1

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
070	57°	01 .227	N	164°	13 .138	W	20	SEP	20	14	07	9.4	84	1003.1	140	20	68	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX DEPTH = 61

REMARKS:

Recorder Initials: SEP

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			x263										1
2	Bot													2
3	45			x264										3
4	45						290							4
5	30			x265										5
6	30						290							6
7	15			x266										7
8	15						290							8
9	0			x267										9
10	0						290							10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY20-12	DBO/FOCI	CTD069	PUF 8

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
069	58	27.77	N	161	35.51	W	20	09	20	00	52	9.7	67	1011	220	4	50	PUF8

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson
☐			
☐			

WEATHER OBS: SFC/Bottom Temp. MAX DEPTH = 46.5

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V(	>10 dup vol	POC 500 ml		Comments	Nis No.
1		NO SAMPLES												1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	DBO/FOCI	CTD068	PMF16 AL19_AU_BS2

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
068	59	14.89	N	169	24.60	W	19	09	20	17	55	8.7	67	1010	306	6	54	BS2/PMF16

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp.

MAX. DEPTH = 48.8

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V(	>10 dup vol	POC 500 ml		Comments	Nis No.
1														1
2	NO SAMPLES													2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	DBO/FOCI	CTD067	PUF-12

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
067	60	42.03	N	171	06.44	W	19	Sep	20	07	36	7.8	076	1006	312	13	62.6	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 56.8

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V	>10 dup vol	POC 500 ml		Comments	Nis No.
1	NO SAMPLES													1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY20-12		CTD066	AL19-AML_BS11

CONSC CAST #	LATITUDE		LONGITUDE					TIME (GMT)		DRY BULB	RH	Pressure	WIND DIRN.	WIND SPD.	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)	
066	41	04.84 N	170	17.13 W	19	SEP	20	04	05	8.2	85	1004	327	8	50	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson
☐			
☐			

WEATHER OBS: SFC/Bottom Temp. MAX DEPTH = 45

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V	>10 dup vol	POC 500 ml		Comments	Nis No.
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY20-12	DBO / FOCI	CTD 065	BS14

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
065	63	59.96	N	167	56.62	W	18	09	20	08	11	7.8	85	991	328	22	376	BS14

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX. DEPTH = 32

REMARKS:

Bot & 30 depths [illegible] together, Max Depth @ 32

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL HABS SALT	Nut.Btl	O2-Btl.N ~~DIC/Alk~~	Chloro GFF Vol	>10 Large Vol	GFF Dup V(>10 dup vol	POC 500 ml	eDNA	Comments	Nis No.
1	Bot			x259						x R1/R2	set C	1
2	Bot					x290						2
3	30			x260								3
4	30					x290						4
5	15			x261								5
6	15					x290						6
7	0		x204	x262	x 22							7
8	0				x324	x290				x R1/R2	set C	8
9												9
10												10
11												11
12												12
I		Inline										I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	DBO/FOCI	CTD064	NRS-01/C9

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
064	72	30.03	N	156	33.81	W	15	09	20	13	01	0.2	93	1023	999	19	890.00	NRS-01/C9

	SBE 9+		FLUOR S/N
	PRESS SN		SBE43-Oxy (prim
	PRI TEMP SN		SBE43-Oxy (sec)
	SEC TEMP SN		Transmissometer
	PRI COND SN		PAR S/N
	SEC COND SI		O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX DEPTH = 880.7

REMARKS:

CTD cast was started with depth of >1000m, Strong current had us drifting at 1Kt toward shallower water, intended bottom depth of 900m couldn't be reached. Bottom depth on EK80 jumped to 873 when CTD was on bottom? at Max Depth...

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V	>10 dup vol	POC 500 ml		Comments	Nis No.
1	BOT		x221											1
2	BOT			x251	x187									2
3	600			x252	x207									3
4	400			x253	x306									4
5	400													5
6	200			x254	x310									6
7	100			x255	x321									7
8	50			x256	x325									8
9	25			x257	x326									9
10	Ø			x258	x376									10
11	Ø													11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DBO / FOCI	CTD063	AL19-AM-RF2

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
063	71	45.31	N	154	26.76	W	14	SEP	20	23	35	2.8	090	1023	99	11	93	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 88m

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V	>10 dup vol	POC 500 ml		Comments	Nis No.
1		NO SAMPLES												1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	DBO/FOCI	CTD062	DB05-9

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
062	71°	34.833'	N	157°	48.023'	W	14	SEP	20	16	15	2.7	89	1021.2	055	9	65	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX DEPTH = 59

REMARKS:

Recorder Initials: SSD

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL Hydro5 SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V	>10 dup vol	POC 500 ml	eDNA	Comments	Nis No.
1	Bot			x247										1
2	Bot						290					x R1/R2	— set B' 87/88	2
3	40			x248										3
4	40						290							4
5	40													5
6	15			x249			290							6
7	15													7
8	0						290					x R1/R2	— set B' 85/86	8
9	0			x250		x2L								9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	OY 20-12	PBO/ FOCI	CTD061	DBO 5-7

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
061	71°	29.741' N	157°	39.308' W	14	SEP	20	14	54	2.9	87	1020.8	16	8	90	DBO 5-7

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson
☐			
☐			

WEATHER OBS:

SFC/Bottom Temp.

MAX DEPTH = 82

REMARKS:

Recorder Initials: [illegible]

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	HABS ~~DNA/Ak~~	Chloro GFF Vol	>10 Large Vol	GFF Dup V(	>10 dup vol	POC 500 ml		Comments	Nis No.
1	BOT			x242										1
2	BOT													2
3	60			x243										3
4	60						290							4
5	40			x244										5
6	40						290							6
7	15			x245										7
8	15						290							8
9	0			x246										9
10	0					x2L	290							10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY 20-12	DBO/FOCI	CTD060	DB05-5

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
060	71	24.40	N	157	28.51	W	14	9	20	13	20	3.2	84	1020	265	1	127	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX DEPTH = 122

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	HABS ~~DOAR~~	Chloro GFF Vol	>10 Large Vol	GFF Dup V(	>10 dup vol	POC 500 ml	ℓ DNA	Comments	Nis No.
1	BOT		x215		x317									1
2	BOT			x236								xR1/R2	Set A 83/84	2
3	90			x237										3
4	60			x238										4
5	60						290							5
6	40			x239			290							6
7	15			x240										7
8	15						290							8
9	0			x241		x2L								9
10	0						290					xR1/R2	Set A 81/82	10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	DBO/FOCI	CTD059	DB05-3

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
059	71	19.39	N	157	18.50	W	14	Sep	20	12	01	3.2	093	1019	004	06	86.3	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX. DEPTH = 80.6

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL HA35 SALT	Nut.Btl	O2-Btl.N	~~DIC/Alk~~	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			x231										1
2	Bot													2
3	60			x232										3
4	60						290							4
5	40			x233										5
6	40						290							6
7	15			x234										7
8	15						290							8
9	0			x235		x2L								9
10	0						290							10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO
OSCAR DYSON	DY 20-12	DBO/FOCI	CTD058	DBO5-1

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
058	71°	15.144	N	157°	08.464	W	14	SEP	20	11	09	3.5	93	1019.9	349	7	47	DBO5-1

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX DEPTH = 43

REMARKS:

Good data! previous casts had problems with pump flow thru.

Recorder Initials: SDD

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	~~[illegible]~~	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo	>10 dup vol	POC 500 ml	eDNA	Comments	Nis No.
1	BOT			x227								xR1/R2	set C 79/80	1
2	BOT						290							2
3	30			x228										3
4	30						290							4
5	15			x229										5
6	15						290							6
7	0			x230		x2L						xR1/R2	set C 77/78	7
8	0				x280		290							8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DBO/FOCI	CTD057a	CK-04

CONSC CAST #	LATITUDE			LONGITUDE						TIME (GMT)		DRY BULB	RH	Pressure	WIND DIRN.	WIND SPD.	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)	
57a	.		N	.		W						.						

	SBE 9+		FLUOR S/N
	PRESS SN		SBE43-Oxy (prim
	PRI TEMP SN		SBE43-Oxy (sec)
	SEC TEMP SN		Transmissometer
	PRI COND SN		PAR S/N
	SEC COND SI		O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH =

REMARKS: 057 cast had obscure O_2 data, redoing cast... not fixed
Brought up cast w/ no samples.

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			X										1
2	Bot						290							2
3	30													3
4	30						290							4
5	15			X										5
6	15						290							6
7	0			X										7
8	0						290							8
9														9
10														10
11														11
12														12
I		Inline												I

NO SAMPLES

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO
OSCAR DYSON	DY-20-12	DBO/FOCI	CTD057	CK-04

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
057	71	02.71	N	160	29.69	W	14	09	20	02	45	5.1	080	1019			50	

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 45

REMARKS: Obscure O_2 and other data. Will recast CTD 057a.

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V(	>10 dup vol	POC 500 ml		Comments	Nis No.
1	BOT			x										1
2	BOT						290							2
3	30													3
4	30						290							4
5	15			x										5
6	15						296							6
7	Ø			x										7
8	Ø						290							8
9														9
10														10
11														11
12														12
I		Inline												I

NO SAMPLES

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	DB0/FOCI	CTD056	DB04-1

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
056	71	11.57	N	160	13.52	W	3	Sep	20	23	51	04.6	65.7	1019	240	13	53	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson
☐			
☐			

WEATHER OBS:

SFC/Bottom Temp.

MAX DEPTH = 48

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL HABS SALT	Nut.Btl	O2-Btl.N ~~DIC/Alk~~	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo	>10 dup vol	POC 500 ml	eDNA	Comments	Nis No.
1	Bot			x223									1
2	Bot					290					x R1/R2	8 B 75/76	2
3	30			x224									3
4	30					290							4
5	15			x225									5
6	15					290							6
7	0			x226	x2L							HABS	7
8	0					290					x R1/R2	8 B 73/74	8
9													9
10													10
11													11
12													12
I		Inline											I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	DBO/FOCI	CTD055	DB04-2

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
055	71°	19.386 N	160°	39.646 W	13	SEP	20	21	58	4.7	84	1019.9	249	14	48	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 38

REMARKS: 10m off bottom due to large swells

Chl. max @ 25 m.

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL HABS SALT	Nut.Btl	O2-Btl.N	~~DIC/Alk~~	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			x219										1
2	Bot						290							2
3	30			x220										3
4	30						290							4
5	15			x221										5
6	15						290							6
7	0			x222		x 2L							HABS	7
8	0						290							8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	DB0/Foci	CTD054	DB04-3

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
054	71°	27.294' N	161°	02.238 W	13	SEP	20	20	11	4.5	83	1019.6	242	17	48	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX DEPTH = 38

REMARKS: 10m off bottom due to larger swells

Recorder Initials: SSD

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL HABS SALT	Nut.Btl	O2-Btl.N ~~DIC/Alk~~	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo	>10 dup vol	POC 500 ml	eDNA	Comments	Nis No.
1	Bot		x209	x215									1
2	Bot				x176	290					x R1/R2	set C 69/70	2
3	30			x216									3
4	30					290							4
5	15			x217									5
6	15					290							6
7	0			x218	x2L							HABs	7
8	0					290					x R1/R2	set C 71/72	8
9													9
10													10
11													11
12													12
I		Inline											I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	DBO/FOCI	CTD053	DB04-4

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
053	71°	35.558' N	160°	24.747' W	13	Sep	20	18	33	4.0	87	1019.8	241	16	47	DB04-4

☐ SBE 9+		☐ FLUOR S/N	
☐ PRESS SN		☐ SBE43-Oxy (prim	
☐ PRI TEMP SN		☐ SBE43-Oxy (sec)	
☐ SEC TEMP SN		☐ Transmissometer	
☐ PRI COND SN		☐ PAR S/N	
☐ SEC COND SI		☐ O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 30

REMARKS: 10m off bottom due to larger swell

Recorder Initials: SBS

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL HABS SALT	Nut.Btl	O2-Btl.N	~~DIC/Alk~~	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			x211										1
2	Bot						290							2
3	30			x212										3
4	30						290							4
5	15			x213										5
6	15						290							6
7	0			x214		x2L							HABs	7
8	0						290							8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	DBO/FOCI	CTD052	DB04-5

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
052	71°	43.446 N	161°	46.356 W	13	SEP	20	17	03	4.4	84	1019.6	237	18	44	

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS:

SFC/Bottom Temp.

MAX. DEPTH = 35

REMARKS: 10 m off bottom due to larger swells
Bottle 4 did not close, using bottle 3 for samples

Recorder Initials: SSD

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL HABS SALT	Nut.Btl	O2-Btl.N ~~DIC/Alk~~	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo >10 dup vol	POC 500 ml	eDNA	Comments	Nis No.
1	Bot			x207								1
2	Bot					290				x R1/R2	Set A 65/66	2
3	30			x208		290						3
4	30											4
5	15			x209								5
6	15					290						6
7	0			x210	x 2L						HABs	7
8	0					290				x R1/R2	Set A 67/68	8
9												9
10												10
11												11
12												12
I		Inline										I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	DB0/FOCI	CTD051a	DB04-6

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
051	71	50.79 N	162	09.75 W	13	Sep	20	15	07	4.1	88	1019	243	20	43.0	

	SBE 9+		FLUOR S/N
	PRESS SN		SBE43-Oxy (prim
	PRI TEMP SN		SBE43-Oxy (sec)
	SEC TEMP SN		Transmissometer
	PRI COND SN		PAR S/N
	SEC COND SI		O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX. DEPTH = 37.7

REMARKS: CTD 051 cast ... conducted with wrong config files loaded. Reset config files and did a recast for sanity check. (CTD051a)

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL HABS SALT	Nut.Btl	O2-Btl.N	~~DIC/Alk~~	Chloro GFF Vol	>10 Large Vol	GFF Dup V(>10 dup vol		POC 500 ml		Comments	Nis No.
1	Bot			x203										1
2	Bot						290							2
3	30			x204										3
4	30						290							4
5	15			x205										5
6	15						290							6
7	0			x206	x133	x								7
8	0		x203				290							8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	D30/FOCI	CTD050	IC010

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
050	71	42.31	N	165	35.05	W	13	Sep	20	08	32	4.8	087	1022	246	17	42.5	IC 10

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim)
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SN	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX DEPTH = 37.3

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	~~DIC/Alk~~ Halos	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml	cDNA	Comments	Nis No.
1	Bot			x199										1
2	Bot						290					xR1/R2	Set B	2
3	30			x200										3
4	30						290							4
5	15			x201										5
6	15						290							6
7	0			x202								xR1/R2	Set B	7
8	0					x2L	290							8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DBO/FOCI	CTD049	1C08

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
049	71	26.98 N	164	54.66 W	13	SEP	20	05	39	04.7	082	1023	265	13	43	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX DEPTH = 38

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			x195										1
2	Bot						290							2
3	30			x196										3
4	30						290							4
5	15			x197										5
6	15						290							6
7	0			x198										7
8	0						290							8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DBO/FOCI	CTD048	CK-02

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
048	71	13.21	N	164	14.43	W	13	SEP	20	02	58	04.6	087	1024	275	18	44	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson
☐			
☐			

WEATHER OBS:

SFC/Bottom Temp.

MAX. DEPTH = 39

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	BOT			x191										1
2	BOT				x173		290							2
3	30			x192										3
4	30						290							4
5	15			x193										5
6	15						290							6
7	0			x194										7
8	0						290							8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	Dy2012	DB0/FUCE	CTD047	C1/CTD

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
047	70°	49.913' N	163°	07.331' W	12	SEP	20	15	30	5.2	94	1025.6	256	9	45	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX. DEPTH = 40

REMARKS:

bottom temp: -1.17 °C

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			x179										1
2	Bot						290							2
3	30			x180										3
4	30						290							4
5	15			x189										5
6	15						290							6
7	0			x190										7
8	0				x016		290							8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY20-12	DBO/FOCI	CTD 046	104.5

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
046	71	01.67	N	163	40.34	W	12	Sep	20	13	26	4.5	091	1025	224	08	44.7	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX. DEPTH = 40.1m

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	BOT			x185										1
2	BOT						290							2
3	30			x186										3
4	30						290							4
5	15			x187										5
6	15						290							6
7	0			x188										7
8	0						290							8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DBO/FOCI	CTD045	1C01

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
045	70	35.83	N	162	35.37	W	12	Sep	20	09	14	3.1	081	1027	207	5	40.3	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX. DEPTH = 35.5 m

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			x181										1
2	Bot						290							2
3	30			x182										3
4	30						290							4
5	15			x183										5
6	15						290							6
7	0			x184										7
8	0						290							8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DBO/FOCI	CTD044	AL19_AU_C1

CONSC CAST #	LATITUDE		LONGITUDE					TIME (GMT)		DRY BULB	RH	Pressure	WIND DIRN.	WIND SPD.	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)	
044	69	18.90 N	167	37.20 W	11	8	9 20	21	18	6.0	88	1027	288	11	50	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson
☐			
☐			

WEATHER OBS:

SFC/Bottom Temp.

MAX DEPTH = 45

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	DB0/FOCI	CTD043	DB03-1

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
043	68	18.18 N	166	55.49 W	11	Sep	20	13	00	6.9	087	1028	269	18	35.0	

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS:

SFC/Bottom Temp.

MAX. DEPTH = 29.3

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL HABS SALT	Nut.Btl	O2-Btl.N	~~DIC/Alk~~	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo	>10 dup vol	POC 500 ml	eDNA	Comments	Nis No.
1	Bot			x175								xR1/R2	-set C 57/60	1
2	Bot						290							2
3	30			x176									*Note shallow depth skipped this depth	3
4	30						290							4
5	15			x177										5
6	15						290							6
7	0			x178		x2L						xR1/R2	-set C 57/58	7
8	0		x202		x372		290							8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	DB0/FOCI	CTD042	DB03-3

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
042	68	11.22 N	167	17.39 W	11	Sep	20	11	04	6.2	090	1028	268	14	48.8	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX. DEPTH = 43.0

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	~~DIC/Alk~~ HABS	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml	eDNA	Comments	Nis No.
1	Bot			x171										1
2	Bot						290					xR1/R2 set A 55/56		2
3	30			x172										3
4	30						290							4
5	15			x173										5
6	15						290							6
7	0			x174								xR1/R2 set A 53/54		7
8	0					x2L	290							8
9														9
10														10
11														11
12														12
I		Inline												I

NO BONGO

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY 2012	DBO/FOCI	CTD041	DB03-4

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
041	68	08.07 N		167	29.55 W		11	Sep	20	10	01	5.9	092	1028	267	6	49.5	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX. DEPTH = 43.0m

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			x167										1
2	Bot						290							2
3	30			x168										3
4	30						290							4
5	15			~~x169~~										5
6	15			x169			290							6
7	0			x170										7
8	0						290							8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	DBO/FOCI	CTD040	DBO3-5

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
040	68	00.87	N	167	52.77	W	11	Sep	20	08	02	4.8	093	1028	274	14	53.1	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX DEPTH = 48.6m

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	~~DIC/Alk~~ HABS	Chloro GFF Vol	>10 Large Vol	GFF Dup V(	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			x163										1
2	Bot						290							2
3	30			x164										3
4	30						290							4
5	15			x165										5
6	15						290							6
7	0			x166										7
8	0					x 2L	290							8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DBO/FOX	CTD 039	DBO 3-6

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
039	67	53.86	N	168	13.89	W	11	SEP	20	06	14	09.6	093	1028	278	12	58	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX. DEPTH = 54

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	~~DIC/AK~~ HABs	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml	cDNA	Comments	Nis No.
1	80+			x159										1
2	30+						290					xR1/R2	49/50	2
3	30			x160										3
4	30						290							4
5	15			x161										5
6	15						290							6
7	0			x162								xR1/R2	51/52	7
8	0					x2L	290							8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DBO/FOCI	CTD038	C12

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
038	67	54.04	N	168	11.50	W	11	09	20	05	09	04.4	093	1028	284	09	59	C12

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 54

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	BOT			x155	x371									1
2	BOT						290							2
3	30			x156										3
4	30						290							4
5	15			x157										5
6	15						290							6
7	0			x158										7
8	0						290							8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	DBO/FOCI	CTD037	DBO 3-7

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
037	67°	47.004' N	168°	35.701' W	10	SEP	20	23	30	6.4	83	1028.4	270	10	50	DBO 3-7

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX DEPTH = 45

REMARKS:

bottom temp: 2.77°C

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			x150										1
2	Bot						290							2
3	30			x151										3
4	30						290							4
5	15			x152										5
6	15						290							6
7	0			x153	x373									7
8	0	x208					290							8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY 2012	DBO/FOCI	CTD036	DBO3-8

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
036	67°	40.374' N	168°	56.526' W	10	SEP	20	21	54	7.0	81	1028.1	281	10	50	DBO 3-8

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX DEPTH = 45

REMARKS:

Recorder Initials: [illegible]

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL HABS SALT	Nut.Btl	O2-Btl.N	~~DIC/Alk~~	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml	eDNA	Comments	Nis No.
1	Bot			x146								x R1/R2C	45/46	1
2	Bot						290							2
3	30			x147										3
4	30						290							4
5	15			x148										5
6	15						290							6
7	0			x149								x R1/R2C	47/48	7
8	0					x2L	290						HABS	8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY20-12	DBO/FOCI	CTD035	DBO 2-4

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
035	64°	57.567 N	169°	52.749 W	10	SEP	20	05	32	5.9	85	1027.5	226	17	49	

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS:

SFC/Bottom Temp.

MAX. DEPTH = 45

REMARKS:

Bottom temp: 2.04°C
Surf. temp: 5.4 °C

Chl. max @ ~5m

Recorder Initials: SOD

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	HABS ~~DIC/AIR~~	Chloro GFF Vol	>10 Large Vol	GFF Dup Vol	>10 dup vol	POC 500 ml	DNA	Comments	Nis No.
1	BOT			x142										1
2	BOT						290					x R1/R2 A	Set "A"	2
3	30			x143										3
4	30						290							4
5	15			x144										5
6	15						290							6
7	Ø			x145								x R1/R2 A	Set "A"	7
8	Ø					2L	290							8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY20-12	DBO/FOCI	CTD 034	DBO2-5

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
034	64	59.30 N		169	08.33 W		10	SEP	20	03	02	06.5	086	1027	240	16	48.92	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX DEPTH = 43.8

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	HABS ~~DIC/AIR~~	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo	>10 dup vol	POC 500 ml	eDNA	Comments	Nis No.
1	BOT			x138										1
2	BOT		x244		x367		290					R1/R2 B		2
3	30			x139										3
4	30						290							4
5	15			x140										5
6	15						290							6
7	0			x141										7
8	0					x2L	290					R1/R2 B		8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY20-12	DBO/ FOCI	CTD033	AL19_AM_NM1

CONSC CAST #	LATITUDE		LONGITUDE					TIME (GMT)		DRY BULB	RH	Pressure	WIND DIRN.	WIND SPD.	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)	
033	64	51.48 N	168	22.96 W	10	09	20	00	47	7.3	087	1027	242	18		

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH =

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V(	>10 dup vol	POC 500 ml		Comments	Nis No.
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DBO/FOCI	CTD032	DBO2-3

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
032	64	40.11	N	168	19.19	W	09	09	20	22	51	7.6	86	1027	243	14	38	DBO2-3

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX DEPTH = 34

REMARKS:

bottom: 3.21°C
surface: 7.10°C

Recorder Initials: [illegible]

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	HABs ~~DIC/ATK~~	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo	>10 dup vol	POC 500 ml	eDNA	Comments	Nis No.
1	Bot			x134										1
2	Bot						290					x R1/R2 C		2
3	30			x135										3
4	30						290							4
5	15			x136										5
6	15						290							6
7	0													7
8	0			x137		x 2L	290					x R1/R2 C	HABs	8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY20-12	DBO/FOCI	CTD 031a	DBO 2-2

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
031	64°	40.378	N	169	05.734	W	09	SEP	20	20	19	6.2	85	1026.9	244	12	45	DBO 2-2

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX DEPTH = 40

REMARKS:

bottom temp: 2.59°C

surface temp: 5.27°C

Recorder Initials: SBO

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			x130										1
2	Bot					x290								2
3	30			x131										3
4	30					x290								4
5	15													5
6	15			x132		x290								6
7	0			x133										7
8	0					x290							HABs	8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	DBO/FOCI	CTD031	DBO2-2

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
031	64°	40.882N	169°	05.521 W	09	SEP	20	19	40	6.1	84	1026.6	250	12	45	DBO2-2

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS:

SFC/Bottom Temp.

MAX DEPTH = 40

REMARKS:

bottom temp: 2.59°C
surf. temp: 5.28°C

* NEBCIN 5 had an open tube & no samples taken from it.

* WINCH WIRE OUT SPEED WAS 40 meters/minute instead of 30m/min → Operator error, sorry.

Recorder Initials: JSD

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			x130										1
2	Bot						296							2
3	30			x131										3
4	30						290							4
5	15													5
6	15			x132			290							6
7	0			x133										7
8	0						290						HABs	8
9														9
10														10
11														11
12														12
I		Inline												I

CAST RE DONE, NO SAMPLES TAKEN. SJD.

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	D30/FOCI	CTD030	D302-1

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
030	64°	40.465 N	169°	55.270 W	09	SEP	20	17	40	4.3	71	1025.5	252	12	47.48	

☐ SBE 9+		☐ FLUOR S/N	
☐ PRESS SN		☐ SBE43-Oxy (prim	
☐ PRI TEMP SN		☐ SBE43-Oxy (sec)	
☐ SEC TEMP SN		☐ Transmissometer	
☐ PRI COND SN		☐ PAR S/N	
☐ SEC COND SI		☐ O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX DEPTH = 42

REMARKS:

Recorder Initials: [illegible]

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V(	>10 dup vol	POC 500 ml	eDNA	Comments	Nis No.
1	Bot			x129										1
2	Bot						290					x R1/R2A	A Bottles for eDNA	2
3	30			x128										3
4	30						290							4
5	15			x129										5
6	15						290							6
7	0			x126								x R1/R2A	A Bottles for eDNA	7
8	0				x363		290						HABS	8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY20-12	DBO/FOCI	CTD029	DBO 1-10

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
029	6336.09	N		17236.16	W		09	Sep	20	07	48	7.3	074	1024	295	8.5	53.4	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson
☐			
☐			

WEATHER OBS: SFC/Bottom Temp. MAX DEPTH = 49.2

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			x121										1
2	Bot													2
3	45			x122										3
4	45						290							4
5	30			x123										5
6	30						290							6
7	15			x124										7
8	15						290							8
9	Ø			x125										9
10	Ø						290							10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DBO/FOCI	CTD028	DBO 1-9

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
028	63°	16.504'	N	173°	17.279'	W	09	SEP	20	04	48	7.3	70	1024.4	324	12	70	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX DEPTH = 65

REMARKS:

bottom temp 0.99°C

Recorder Initials: [illegible]

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	~~DIC/Alk~~ HABs	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo	>10 dup vol	POC 500 ml	eDNA	Comments	Nis No.
1	BOT			x116										1
2	BOT						290					x1Lx3-B		2
3	45			x117										3
4	45						290							4
5	30			x118										5
6	30						290							6
7	15			x119										7
8	15						290							8
9	0			x120										9
10	0					x2L	290					x1Lx3-B		10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO
OSCAR DYSON	DY-20-12	DBO/FOCI	CTD027	DBO1-8

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
027	63°	01.858 N	173°	27.468 W	09	SEP	20	02	34	8.3	61	1024.1	310	10	71	DBO1-8

☐ SBE 9+		☐ FLUOR S/N	
☐ PRESS SN		☐ SBE43-Oxy (prim	
☐ PRI TEMP SN		☐ SBE43-Oxy (sec)	
☐ SEC TEMP SN		☐ Transmissometer	
☐ PRI COND SN		☐ PAR S/N	
☐ SEC COND SI		☐ O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 67

REMARKS:

bottom temp - 1.29°C

Recorder Initials: SSD

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V(	>10 dup vol	POC 500 ml		Comments	Nis No.
1	BOT		x220	x111	x374									1
2	BOT													2
3	45			x112										3
4	45						290							4
5	30			x113										5
6	30						290							6
7	15			x114										7
8	15						290							8
9	0			x115										9
10	0						290							10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DBO/FOCI	CTD026	DBO 1-7

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
026	62°	47.381 N	173°	29.850 W	09	SEP	20	12	48	8.1	67	1023.9	288	10	70	DBO 1-7

☐ SBE 9+		☐ FLUOR S/N	
☐ PRESS SN		☐ SBE43-Oxy (prim	
☐ PRI TEMP SN		☐ SBE43-Oxy (sec)	
☐ SEC TEMP SN		☐ Transmissometer	
☐ PRI COND SN		☐ PAR S/N	
☐ SEC COND SI		☐ O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp.

MAX DEPTH = 65

REMARKS:

Recorder Initials: SBO

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL HABs SALT	Nut.Btl	O2-Btl.N	~~DIC/ALK~~	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo	>10 dup vol	POC 500 ml	eDNA	Comments	Nis No.
1	Bot			x106								R1/R2 → "C"		1
2	Bot													2
3	45			x107										3
4	45						290							4
5	30			x108										5
6	30						290							6
7	15			x109										7
8	15						290							8
9	0			x110								R1/R2 → "C"		9
10	0					x 2L	290							10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DBO/FOCI	CTD025	DBO 1-6

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
025	62°	33.655' N	173°	33.143' W	08	SEP	20	23	00	8.6	65	1023.3	000	1	65	

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX DEPTH = 60

REMARKS:

bottom temp: -0.86°C
surf. temp: 9.43°C

Recorder Initials: SRD

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo	>10 dup vol	POC 500 ml		Comments	Nis No.
1	304			x101										1
2	304													2
3	45			x102										3
4	45						x290							4
5	30			x103										5
6	30						x290							6
7	15			x104										7
8	15						x290							8
9	0			x105										9
10	0						x290							10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	DB01/FOCI	CTD024	bs8/M8

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
024	62°	12.224 N	174°	41.949 W	08	SEP	20	03	55	7.9	64	1019.7	333	11	73	

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS:

SFC/Bottom Temp.

MAX DEPTH = 68

REMARKS:

bottom temp -0.94°C Chl max @ 35m

surf temp 9.48°C

Recorder Initials: SBD

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GANN eDNA ~~GFF Dup Vol~~	~~>10 dup vol~~	POC 500 ml	CO_2	Comments	Nis No.
1	BOT			x096								x Triplicate	pCO_2	1
2	BOT		x219		x370					xR½A				2
3	45			x097			290							3
4	45													4
5	30			x098			290							5
6	30													6
7	15			x099			290							7
8	15				x368				xGANN					8
9	0			x100			290			xR½A				9
10	0								xGANN				HABS	10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	DBO/FOCI	CTD023	DBO 1-4

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
023	62	23.24 N	174	34.42 W	08	Sep	20	13	39	7.7	074	1018	107	12	70.5	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX. DEPTH = 589

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			x091										1
2	Bot													2
3	45			x092			290							3
4	45						~~290~~							4
5	30			x093										5
6	30						290							6
7	15			x094										7
8	15						290							8
9	0			x095										9
10	0						290							10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY20-12	DBO/FOCI	CTD 022	DB01-3

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
022	62	13.07 N	174	52.69 W	08	Sep	20	11	58	8.8	60	1017	328	14	75.4	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX. DEPTH = 66.13

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V	>10 dup vol	POC 500 ml		Comments	Nis No.
1	BOT			x096								eDNA	Bottle set B	1
2	BOT				x366									2
3	45			x081										3
4	45						290							4
5	30			x090										5
6	30						290							6
7	15			x089										7
8	15						290							8
9	Ø			x090								eDNA →	Bottle set B	9
10	Ø						290						HABS	10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY20-12	PSD/FOCI	CTD 021	M8 box-1

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
021	62	11.66	N	175	11.51	W	08	Sep	20	09	58	8.9	061	1017	345	14	79.9	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX DEPTH = 69.1

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V	>10 dup vol	POC 500 ml		Comments	Nis No.
1	BOT			x081										1
2	BOT													2
3	45			x082										3
4	45						290							4
5	30			x083										5
6	30						290							6
7	15			x084										7
8	15						290							8
9	0			x085										9
10	0		x213		x364		290							10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName	STATION NO.
Oscar Dyson	DY20-12	DBO / FOCI	CTD 020	DBO 1-2

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
020	62	02.80	N	175	13.05	W	08	Sep	20	08	00	8.6	059	1016	351	14	81	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX DEPTH = 75

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vc	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			x076										1
2	Bot						290							2
3	45			x077										3
4	45						290							4
5	30			x078										5
6	30						290							6
7	15			x079										7
8	15						290							8
9	0			x080										9
10	0													10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO
OSCAR DYSON	DY20-12	DBO/FOCI	CTD019	DBO 1-1

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
019	62	00.64 N	175	04.18 W	08	SEP	20	07	11	08.5	64	1015	351	15	80.00	

☐ SBE 9+		☐ FLUOR S/N	
☐ PRESS SN		☐ SBE43-Oxy (prim	
☐ PRI TEMP SN		☐ SBE43-Oxy (sec)	
☐ SEC TEMP SN		☐ Transmissometer	
☐ PRI COND SN		☐ PAR S/N	
☐ SEC COND SI		☐ O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 70

REMARKS: 10m off bottom due to swell
Chloro Spike @ 35m

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	~~DIC/ALK~~ HABS	Chloro GFF Vol	>10 Large Vol	GFF Dup V	>10 dup vol	POC 500 ml	eDNA	Comments	Nis No.
1	BOT			x071								x1L(x3)	set "C"	1
2	BOT													2
3	45			x072										3
4	45						290							4
5	30			x073										5
6	30						290							6
7	15			x074										7
8	15						290							8
9	0			x075		x1L								9
10	0						290					x1L(x3)	set "C"	10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DBO/FOCI	CTD018	M8 BOX3

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
018	61	58.43 N	174	37.70 W	08	SEP	20	05	05	08.2	66	1013	106	19	75.41	

☐ SBE 9+		☐ FLUOR S/N	
☐ PRESS SN		☐ SBE43-Oxy (prim	
☐ PRI TEMP SN		☐ SBE43-Oxy (sec)	
☐ SEC TEMP SN		☐ Transmissometer	
☐ PRI COND SN		☐ PAR S/N	
☐ SEC COND SI		☐ O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 64.62

REMARKS: 10m off bottom due to swell

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V	>10 dup vol	POC 500 ml		Comments	Nis No.
1	BOT			x066										1
2	BOT				x365									2
3	45			x067			290							3
4	45													4
5	30			x068			290							5
6	30													6
7	15			x069			290							7
8	15													8
9	0			x070			290							9
10	0													10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	DBO/FOCI	CTD017	M8BOX 4

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
017	62	11.93	N	174	18.17	W	08	SEP	20	02	54	8.7	68	1011	351	12	68.14	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX DEPTH = 57.28

REMARKS:
10m off bottom due to swell

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			x061										1
2	Bot													2
3	45			x062										3
4	45						290							4
5	30			x063										5
6	30						290							6
7	15			x064										7
8	15						290							8
9	0			x065										9
10	0						290							10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DBO / FOCI	CTD016	DBO 1-5

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
016	62°	27.996 N	174°	05.070 W	07	SEP	20	23	59	9.1	65	1010.9	336	9	68	

MAX. DEPTH = 58

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

REMARKS:

surface Temp: 9.52°C
bottom temp: -0.98°C

SFC/Bottom Temp.

10 m off bottom due to larger swell

Chl. Max @ ~30m

Recorder Initials: [illegible]

Nis No.	DEPTH DESIRED	Rosette Notes	SALT	Hydro Team-PMEL Nut.Btl	O2-Btl.N	HABS ~~DICAL~~	Chloro GFF Vol	>10 Large Vol	GFF Dup V(	>10 dup vol	POC 500 ml	eDNA	Comments	Nis No.
1	Bot			x057								x R1/R2		1
2	Bot													2
3	45			x056			290							3
4	45													4
5	30			x058			290							5
6	30													6
7	15			x059			290							7
8	15													8
9	0			x060		x HABS 2L	290							9
10	0				x369							x R1/R2		10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DBO/FOCI	CTD015	M8 BOX2

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
015	62°	25.546' N	174°	42.028' W	09	SEP	20	22	25	7.9	72	1009.6	350	17	72	

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS:

SFC/Bottom Temp.

MAX. DEPTH = 62

REMARKS:

surface temp 9.89°C

bottom temp -0.86°C

10 meters off bottom due to larger swell sets

Chl. Max seen at 34m.

Recorder Initials: SD

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V	>10 dup vol	POC 500 ml		Comments	Nis No.
1	80			x051										1
2	80													2
3	75			x052			290							3
4	45													4
5	30			x053			290							5
6	30													6
7	15			x054			290							7
8	15													8
9	0			x055			290							9
10	0													10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY 2012	DBO/FOCI	CTD014	SME-100

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
014	61	51.00	N	176	15.28	W	06	Sep	20	14	20	10.0	077	1021	55.6	14	100.2	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX DEPTH = 94.16m

REMARKS:

CTD Cast for Alex DeRobertis

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V	>10 dup vol	POC 500 ml		Comments	Nis No.
1	NO SAMPLES													1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY2012	DBO/FOCI	CTD013	SME 120

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
013	61	35.94	N	177	16.48	W	06	Sep	20	07	11	10.5	072	1023	113	10	~117?	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX DEPTH = 112

REMARKS:

bottom depth was not recorded

for Alex DeRobertis

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V	>10 dup vol	POC 500 ml		Comments	Nis No.
1		No Samples												1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DBO/FOCI	CTD 012	M5 BOX 3

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
012	59	54.09	N	172	10.06	W	05	09	20	07	05	11.2	080	1024	122	15	68.1201	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH =

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V	>10 dup vol	POC 500 ml		Comments	Nis No.
1	80			x046										1
2	80													2
3	45			x047			290							3
4	45													4
5	30			x048			290							5
6	30													6
7	15			x049			290							7
8	15													8
9	0			x050			290							9
10	0													10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DB01FOC1	CTD011	M5 BOX-4

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
011	60	05.12 N	171	59.99 W	05	09	20	05	00	11.1	079	1023	140	11	56.4108	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX. DEPTH =

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V	>10 dup vol	POC 500 ml		Comments	Nis No.
1	BOT			x041										1
2	BOT													2
3	45			x042			290							3
4	45													4
5	30			x043			290							5
6	30													6
7	15			x044			290							7
8	15													8
9	0			x045			290							9
10	0													10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DBO/FOCI	CTD010	M5

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
010	59°	54.292' N	171°	41.905' W	05	SEP	20	02	50	10.2	79	1022.8	142	6	70	

☐ SBE 9+		☐ FLUOR S/N	
☐ PRESS SN		☐ SBE43-Oxy (prim	
☐ PRI TEMP SN		☐ SBE43-Oxy (sec)	
☐ SEC TEMP SN		☐ Transmissometer	
☐ PRI COND SN		☐ PAR S/N	
☐ SEC COND SI		☐ O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp.

MAX DEPTH = 65

REMARKS:

Recorder Initials: SSO

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V	>10 dup vol	POC 500 ml	eDNA	Comments	Nis No.
1	BOT			x036										1
2	BOT				x359							x R1/R2		2
3	45			x037			290							3
4	45													4
5	30			x038			290							5
6	30													6
7	15			x039			290						x GANN	7
8	15													8
9	0			x040			290						x GANN	9
10	0											x R1/R2		10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DBO/FOCI	CTD 009	M6-Box 2

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
009	59°	53.920 N	171°	15.427 W	04	SEP	20	12	50	11.0	72	1022.55	130	14	71	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX. DEPTH = 63

REMARKS:

Bottom Temp: 0.01°C
Surface Temp:

encountering larger swells increased depth of bottom to 8 meters for safety buffer

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V	>10 dup vol	POC 500 ml		Comments	Nis No.
1	30+			x031										1
2	30+													2
3	45			x032			290							3
4	45													4
5	30			x033			290							5
6	30													6
7	15			x034			290							7
8	15													8
9	0			x035			290							9
10	0													10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY20-12	DBO/FOCI	CTD008	M5-Box 1

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
008	59°	41.986 N	171°	29.926 W	04	SEP	20	10	43	10.6	77	1021.8	153	16	73	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX DEPTH = 68

REMARKS:

Bottom temp: 0.131°C
Surface temp: 10.97°C
Chlorophyll max at 30m

Recorder Initials: SSD

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			x026										1
2	Bot													2
3	45			x027			290							3
4	45													4
5	30			x028			290							5
6	30													6
7	15			x029			290							7
8	15													8
9	0		x207	x030			290							9
10	0				x285									10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY-20-12	DB01 FOCI	CTD007	AL19_AV_BS9/AL18_AV_BS

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
007	58	57.89	N	170	21.69	W	04	Sep	20	07	05	9.1	080	1019	172	9.6	70.09	

☐ SBE 9+		☐ FLUOR S/N	
☐ PRESS SN		☐ SBE43-Oxy (prim	
☐ PRI TEMP SN		☐ SBE43-Oxy (sec)	
☐ SEC TEMP SN		☐ Transmissometer	
☐ PRI COND SN		☐ PAR S/N	
☐ SEC COND SI		☐ O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp.

MAX. DEPTH = 64.5

REMARKS:

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V(	>10 dup vol	POC 500 ml		Comments	Nis No.
1	NO SAMPLES													1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DBO / FOCI	CTD006	M4 BOX 3

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
006	57°	55.359' N	169°	18.610' W	04	SEP	20	07	55	10.5	70	1018.91	164	12	66	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX DEPTH = 61

REMARKS:

Bottom Temp: 3.41°C
Surface Temp: 11.7 °C

Water color appears like we are back in the coco bloom

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	~~BIC/AIR~~ HABS	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo	>10 dup vol	POC 500 ml		Comments	Nis No.
1	30			x021										1
2	Bot													2
3	45			x022			290							3
4	45													4
5	30			x023			290							5
6	30													6
7	15			x024			290							7
8	15													8
9	0			x025			290							9
10	0					x HABS								10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DBO/FOCI	CTD005	M4 BOX4

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
005	58°	03.789' N	168°	43.290' W	04	SEP	20	05	08	10.5	67	1018.19	189	7	70	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX. DEPTH = 65

REMARKS:

Bottom Temp: 3.0°C
Surface Temp: 11.85°C

Water appears 'normal' again outside of bloom strange color, back to steel grey.

Recorder Initials: SSD

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo	>10 dup vol	POC 500 ml		Comments	Nis No.
1	BOT			x016			290							1
2	BOT													2
3	45			x017			290							3
4	45													4
5	30			x018			290							5
6	30													6
7	15			x019			290							7
8	15													8
9	0			x020			290							9
10	0													10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar DYSON	DY2012	DBO/FOCI	CTD 004	M4 Box 2

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
004	57°	46.034	N	168°	27.862	W	04	SEP	20	02	30	10.3	63	1018.3	223	7	70	

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp.

MAX. DEPTH = 65

REMARKS: Very obvious thermocline @ 20 meters, Bottom Temp: 3.0°C Surface Temp: 11.8°C larger chlor. max also seen @ 20 meters; Chl. max added...

Recorder Initials: GO

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	~~DIC/Alk~~	Chloro GFF Vol	>10 Large Vol	GFF Dup V(	>10 dup vol	POC 500 ml		Comments	Nis No.
1	Bot			x011										1
2	Bot													2
3	45			x012			290							3
4	45													4
5	30			x013			290							5
6	20						290						Chlor. Max	6
7	15			x014			290							7
8	15													8
9	0			x015			290							9
10	0				x291									10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY-20-12	DBO/FOCI	CTD003	BS-4A/M4 Box 1

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
0 03	57°	39.121	N	169°	01.094	W	03	SEP	20	23	52	10.2	65%	1018.29	240	12	68	

☐	SBE 9+	☐	FLUOR S/N
☐	PRESS SN	☐	SBE43-Oxy (prim
☐	PRI TEMP SN	☐	SBE43-Oxy (sec)
☐	SEC TEMP SN	☐	Transmissometer
☐	PRI COND SN	☐	PAR S/N
☐	SEC COND SI	☐	O2 Tmp Senson

WEATHER OBS:

SFC/Bottom Temp.

MAX DEPTH = 63

REMARKS:

Bottom temp: 3.55°C
Surface temp: 11.68°C

Ocean Color is light milky green, looks like a coccolithophore bloom?

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	~~DIC/Alk~~ HMSS	Chloro GFF Vol	>10 Large Vol	GFF Dup Vo	>10 dup vol	POC 500 ml	eDNA	Comments	Nis No.
1	30+			006										1
2	30+													2
3	45			007			290							3
4	45													4
5	30			008			290							5
6	30													6
7	15			009			290							7
8	15													8
9	0			010			290							9
10	0		X201											10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
OSCAR DYSON	DY-20-12	DBO/FOCI	CTD002	BS4A_M4

CONSC CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DAY	MO	YR	TIME (GMT) HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
002	57	86.	N	-168	88.	W	09	AU	G20	22	42	10.8	61	1018	242	1.7	70	

SBE 9+		FLUOR S/N	
PRESS SN		SBE43-Oxy (prim	
PRI TEMP SN		SBE43-Oxy (sec)	
SEC TEMP SN		Transmissometer	
PRI COND SN		PAR S/N	
SEC COND SI		O2 Tmp Senson	

WEATHER OBS:

SFC/Bottom Temp.

MAX. DEPTH = 65

REMARKS:

Bottom temp: 3.49°C

Surface temp: 11.70°C

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V	>10 dup vol	POC 500 ml		Comments	Nis No.
1	BOT			001										1
2	BOT				x351									2
3	45			002			290							3
4	45													4
5	30			x003			290							5
6	30													6
7	15			004			290							7
8	15												GANN	8
9	0			005			290							9
10	0												GANN	10
11														11
12														12
I		Inline												I

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.
Oscar Dyson	DY-20-12	DBO FOCI	CTD001	AL19_AU_BS4a00

CONSC CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DAY	MO	YR	TIME (GMT) HR	TIME (GMT) MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
001	54	26.46 N	165	17.00 W	02	Sep	20	11	51	08.6	09	1015	249	09	158.0	

☐ SBE 9+		☐ FLUOR S/N	
☐ PRESS SN		☐ SBE43-Oxy (prim	
☐ PRI TEMP SN		☐ SBE43-Oxy (sec)	
☐ SEC TEMP SN		☐ Transmissometer	
☐ PRI COND SN		☐ PAR S/N	
☐ SEC COND SI		☐ O2 Tmp Senson	

WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 153.1 m

REMARKS: Cast for Catherine mooring location
CTD Depth = 153.1 m

Recorder Initials:

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT	Nut.Btl	O2-Btl.N	DIC/Alk	Chloro GFF Vol	>10 Large Vol	GFF Dup V	>10 dup vol	POC 500 ml		Comments	Nis No.
1	NO SAMPLES													1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12
I		Inline												I