VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson		BASIS leg 2		74

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE (note if not) DAY	MO	YR	GMT Time HR	MIN	Temp (*C) (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
050	54	59.87	N	167	00.30	W	09	SEP	12	16	38	7.9	.	14			256	16				160	74

Sensor IDS (initially & swap-outs)	Local Time (AKDT)			12				CTD MAX. DEPTH =

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 40 m **Depth of FL max =** highest top 40m above pycno

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

pushed wrong button twice

configure for transmissometer ~~[illegible]~~ are wrong

START LEG 2

* This was incorrectly called CTD001 - we did not rename it to CTD050-

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1 5	5 mb		465	1	046									1
2 5	125			2										2
3 10	100			3									Forgot to	3
4 5	75			4									mark stacked	4
5 10	50			5				250					or unstacked	5
6 5	40			6		250		250		250			All were	6
7 X	—												unstacked.	7
8 5	30			7				250						8
9 5	20			8				250						9
10 X	—													10
11 10	10			9		250		250		250		✓	Did not use 333 n.tex for POC	11
12 5	0			10				250						12

Did not use combusted GFF

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY1208	BASIS leg 2		75

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE (note if not) DAY	MO	YR	GMT Time HR	MIN	Temp (*C) (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
051	55	29.86	N	167	00.52	W	08	Sep	12	06	45	7.1	.	18			034	13				137	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)			12						CTD MAX. DEPTH = 132

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 38-44 **Depth of FL max =** Surface

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Limacina on chl a filt

Transmissometer coefficients corrected - based on 03Apr2012 calibration

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	5 mab			12										1
2	125			13										2
3	100			14										3
4	75			15										4
5	50			16				250						5
6	40			17				250						6
7	—		—	—										7
8	30			18				250		250				8
9	20			19				250						9
10	—		—	—				250						10
11	10			20		2-250 bottles		250	200	250	250	✓		11
12	0			21	239			250						12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson		BASIS leg 2		76

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE (note if not) DAY	MO	YR	GMT Time HR	MIN	Temp (*C) (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
052	55	30.12	N	168	00.03	W	08	SEP	12	19	43	7.3	.	21			009	03				144	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)							CTD MAX. DEPTH =
					12				

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 30 m **Depth of FL max =** above 30 m

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	141			22	049									1
2	125			23									Forgot to	2
3	100			24									mark stacked	3
4	75			25									or unstacked.	4
5	50			26		250		250					All were unstacked.	5
6	40			27		250		250						6
7	—			—										7
8	30			28		250		250		250			Blanks for GFF	8
9	20		466	29		250		250					and >10	9
10	—			—										10
11	10			30		250		250		250			Rep GFF at 10m	11
12	0			31		250		250						12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson		BASIS leg		77

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	GMT DATE MO	GMT DATE YR (note if not)	GMT Time HR	GMT Time MIN	Temp (*C) (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
053	56	00.65	N	168	00.01	W	08	SEP	12	19	47	7.6	.	23			073	02				138	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)						CTD MAX. DEPTH =
			12				

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 25-40 **Depth of FL max =** Top 30 m (low values < 1.0 mg m^{-3})

Weather: Partly cloudy, moderate wind, calm

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Limacina on chl GFF at 10m. Limacina also in zoopl.

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Hydro Team-PMEL Nut.Btl	Hydro Team-PMEL Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	10 mb		467	32	221									1
2	125			33										2
3	100			34										3
4	75			35										4
5	50			36				250						5
6	40			37				250						6
7				—										7
8	30			38				250						8
9	20			39				250		250			Microzoopl	9
10				—										10
11	10			40		250 *	~~[illegible]~~	250		250		✓	Microzoopl.	11
12	0			41				250						12

* Labeled rep B

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY1208	BASIS leg II		079

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	WET BULB	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)	
054	56	30.18	N	167	59.91	W	09	SEP	12	00	41	7.9	.	23			031	05				118	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)	12	CTD MAX. DEPTH = 112
SBE type and S/N	9 11plus - Dyson			
PRESS S/N	772 - Dyson			
TEMP 1 &2 SNs	2376 and 4379 - Dyson			
COND 1&2 S/Ns	2985 and 3127 - Dyson			
FLUOR S/N	759 - EMA			
O2 (SBE43) S/N	904 and 910 - PMEL			
Transmiss S/N	1066 - EMA			
PAR S/N	70103 - EMA			
O2 SBE42S/N	N/A			

Pycnocline Depth= 30-40 m **Depth of FL max =** 20m

Weather: Sunny, calm

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	BOTTOM			485										1
2	100			486										2
3	75			487										3
4	50			488				250						4
5	40			489				250						5
6	30			490				250						6
7	—		—	—	—									7
8	20			491				250		250				8
9	10			492				250		250				9
10	—		—	—	—									10
11	0			493	234			250						11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY1208	BASIS leg II		081

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	WET BULB	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)	
055	57	00.25	N	167	59.72	W	09	Sep	12	07	03	6.7	.	22			152	04				80	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)							CTD MAX. DEPTH = 76
			12					

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 23-33 m **Depth of FL max =** 23 m

Weather: dark, no stars seas 1-2 ft. Higher above than below pyc

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	Bot 75			496	202									1
2	50			497				250 ml		250 ml				2
3	40			498										3
4	30			499						250				4
5	20			500										5
6	10			501						250				6
7	—		—	—	—									7
8	0		468	502										8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY1208	**BASIS leg** II		083

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	GMT DATE MO (note if not)	GMT DATE YR	GMT Time HR	GMT Time MIN	Temp (*C) (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
056	57	30.57	N	168	01.60	W	09	SEP	12	14	08	6.6	.	19			137	12				72	

Sensor IDS (initially & swap-outs)		**Local Time (AKDT)**							CTD MAX. DEPTH = 68
				12					

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 20-22m **Depth of FL max =** ~10 m, ~3 µg/L fluor

Weather: Fairly calm, overcast Higher above than below pyc

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

TSG GFF collected after station

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	Bot 68			504										1
2	50			505				250						2
3	40			506				250						3
4	30			507				250						4
5	20			508		500	500	250		250			MZ	5
6	10			509				250		250		✓	MZ + rep MZ	6
7	—		—											7
8	0			510	217			250						8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson		**BASIS leg** 2		84

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	WET BULB	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)	
057	58	00.12	N	167	59.92	W		SEP	12	19	51	6.2	.	17			142	18				68	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)								CTD MAX. DEPTH = 62
			12						

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 22-27 **Depth of FL max =** 10 m

Weather: Fairly calm, overcast Higher above pyc

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	BoT		x469	512	174									1
2	50			513				250						2
3	40			514				250						3
4	30			515				250						4
5	20			516				250		250			mz	5
6	10			517				250	250	250	250		mz	6
7	—		—	—	—									7
8	0			518				250						8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY1208	BASIS leg 2		85

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	GMT DATE MO	GMT DATE YR	GMT Time HR	GMT Time MIN	Temp (*C) (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
058	58	29.95	N	167	59.57	W	10	Sep	12	00	12	6.4	.	15			142	18				54	

Sensor IDS (initially & swap-outs)	
SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Local Time (AKDT) 12

CTD MAX. DEPTH = 48

Pycnocline Depth= 18 – 21 Check time **Depth of FL max =** 13, Above pyc higher

Weather: Overcast, seas have a few white caps

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Might have collected all blanks

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	BOT			519				250						1
2	40			520				250						2
3	30			521				250						3
4	20			522				250		250				4
5	10			523				250		250				5
6	0			524	112			250						6
7														7
8														8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY1208	**BASIS leg** 2		86

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE (note if not) DAY	MO	YR	GMT Time HR	MIN	Temp (*C) (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
059	59	00.08	N	167	59.92	W	10	SEP	12	06	26	6.3	.	11			139	22				42	

Sensor IDS (initially & swap-outs)	**Local Time (AKDT)**			12				CTD MAX. DEPTH = 37

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= very weak @ 25m **Depth of FL max =** stronger above 25m

Weather: dark; partly sunny swells 3-4 ft

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	Bot 37m			525	x211			250						1
2	30			526										2
3	20			527						250				3
4	10			528						250				4
5	0		x470	529										5
6														6
7														7
8														8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY1208	**BASIS leg** 2		D88

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	~~WET BULB~~ REC NUM	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)	
060	59	30.46	N	168	01.02	W	10	SEP	12	07	50	6.8	93.	06			116	25				39	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)								CTD MAX. DEPTH = 33
					12					

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= none **Depth of FL max =** above 20m

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	33			530				250						1
2	30			531				250						2
3	20			532				250		250			MZ	3
4	10			533		500	500	250		250		✓	MZ	4
5	0			534	.176			250					Spilled ~20m	5
6														6
7	—													7
8														8
9														9
10	—													10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson		BASIS leg_____		89

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	~~WET BULB~~ RH	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)	
061	60	00.67	N	168	00.87	W	10	SEP	12	19	49	6.9	89.	04			110	28				027	89

Sensor IDS (initially & swap-outs)		Local Time (AKDT)							CTD MAX. DEPTH = 22
				12					

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= none **Depth of FL max =** none, Chla ~ 1 µg/L

Weather: Overcast seas ~ 8-10 ft

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Northernmost point of the first full line

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	BOT(21)		x471	536				250						1
2	10			537				250	250	250	250			2
3	0			538	x072			250						3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY1208	BASIS leg 2		90

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	~~WET BULB~~	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)	
062	60	00.22	N	169	00.43	W	11	SEP	12	01	51	7.1	101.	01			081	22				44	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)							CTD MAX. DEPTH = 39
			12					

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 12-18 m **Depth of FL max =** <15m ~1 mg

Weather: 8-10' seas

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	BOT38			539	x074			250						1
2	30			540				250		250			Blanks for chl	2
3	20			541				250						3
4	10			542				250		250				4
5	0			543				250						5
6														6
7														7
8														8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY1208	BASIS leg 2		93

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE (note if not) DAY	MO	YR	GMT Time HR	MIN	Temp (°C) (°C)	~~WET~~ RH BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
063	60	00.64	N	168	01.23	W	11	SEP	12	14	08	7.5	101.	03			071	15				27	

Sensor IDS (initially & swap-outs)	
SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Local Time (AKDT) 12

CTD MAX. DEPTH = 22

Pycnocline Depth= none

Depth of FL max = below 10m ~1 mg/m³

Weather: Dark

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	Bot 22			546										1
2	20			547				250		250			MZ	2
3	10			548		500	500	250		250		X	MZ	3
4	0		.472	549	.059			250						4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY1208	BASIS leg 2		94

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE (note if not) DAY	MO	YR	GMT Time HR	MIN	Temp (*C) (°C)	~~WET BULB~~ RH (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m) 42	STA. NAME/ID
064	59	30.45	N	168	59.01	W	11	SEP	12	20	28	7.5	101.	04			055	11				45	

Sensor IDS (initially & swap-outs)	
SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Local Time (AKDT) 12

CTD MAX. DEPTH = 40

Pycnocline Depth= 17-23 **Depth of FL max =** >16m

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	BoTHO			550	x198			250						1
2	30			551				250						2
3	20			552				250		250			MZ	3
4	10			553				250		250	250		MZ	4
5	0			554				250	250					5
6														6
7														7
8														8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson		**BASIS leg** 2		96

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	~~WET BULB~~ RH	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)	
065	59	00.72	N	168	59.60	W	12	SEP	12	02	05	8.7	92.	06			013	15				52	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)	12	CTD MAX. DEPTH = 50
SBE type and S/N	9 11plus - Dyson	**Pycnocline Depth=** 25-30 m	**Depth of FL max =** 12 m	
PRESS S/N	772 - Dyson	**Weather:**		
TEMP 1 &2 SNs	2376 and 4379 - Dyson	**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**		
COND 1&2 S/Ns	2985 and 3127 - Dyson			
FLUOR S/N	759 - EMA			
O2 (SBE43) S/N	904 and 910 - PMEL			
Transmiss S/N	1066 - EMA			
PAR S/N	70103 - EMA			
O2 SBE42S/N	N/A			

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	50		.473	555	032			250						1
2	40			556				250					Chla blanks	2
3	30			557				250		250				3
4	20			558				250						4
5	10			559				250		250				5
6	0			560	~~032~~			250						6
7														7
8														8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY1208	BASIS leg 2		097

CTD consec CAST #	LATITUDE				LONGITUDE				GMT DATE (note if not)			GMT Time		Temp (*C)	RH ~~WET BULB~~	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)	
066	58	29.92	N		168	59.68	W		12	SEP	12	07	39	6.9	101.	10			353	18				67	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)	12	CTD MAX. DEPTH = 62
SBE type and S/N	9 11plus - Dyson			
PRESS S/N	772 - Dyson			
TEMP 1 &2 SNs	2376 and 4379 - Dyson			
COND 1&2 S/Ns	2985 and 3127 - Dyson			
FLUOR S/N	759 - EMA			
O2 (SBE43) S/N	904 and 910 - PMEL			
Transmiss S/N	1066 - EMA			
PAR S/N	70103 - EMA			
O2 SBE42S/N	N/A			

Pycnocline Depth= 17 ~ 19 m **Depth of FL max =** 12 m

Weather: Dark ; overcast seas 3-4 ft

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	Bot			562										1
2	5D			563				250						2
3	4D			564				250						3
4	3D			565				250						4
5	2D			566				250						5
6	1D			567				250		250				6
7	—		—	—	—									7
8	D			568	.133			250		250				8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson		BASIS leg 2		099

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE (note if not) DAY	MO	YR	GMT Time HR	MIN	Temp (*C) (°C)	~~RH WET BULB~~ (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
067	57	59.34	N	168	58.92	W	12	SEP	12	14	13	7.6	90.	14			335	21				72	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)						CTD MAX. DEPTH = 68
SBE type and S/N	9 11plus - Dyson							
PRESS S/N	772 - Dyson							
TEMP 1 &2 SNs	2376 and 4379 - Dyson							
COND 1&2 S/Ns	2985 and 3127 - Dyson							
FLUOR S/N	759 - EMA							
O2 (SBE43) S/N	904 and 910 - PMEL							
Transmiss S/N	1066 - EMA							
PAR S/N	70103 - EMA							
O2 SBE42S/N	N/A							

Pycnocline Depth= 19-24 **Depth of FL max =** ~20 m ~1.8 mg/m³

Weather: Dark

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Over cold pool

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	10 mab 68			568	.173									1
2	50			570				250						2
3	40			572				250						3
4	30			573				250		250				4
5	20			574				250				✓		5
6	10			575		500	500	250		250				6
7	—													7
8	0		.474	576				250		250				8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY1208	**BASIS leg** 2		100

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	~~WET BULB~~ RH	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)	
068	57	30.46	N	169	00.43	W	12	SEP	12	19	41	6.2	80.	18			342	15				71	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)							CTD MAX. DEPTH = 66
					12				

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 18-24m **Depth of FL max =** ~20m

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Rhizosolenia in Juday net (same taxa as for station 102)

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	10 undo Bot Bot			578										1
2	50			579				250						2
3	40			580				250	250					3
4	30			581				250						4
5	20			582				250		250			MZ	5
6	10			583				250		250	250		MZ	6
7														7
8	0			584	.099			250						8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		102

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE (note if not) DAY	MO	YR	GMT Time HR	MIN	Temp (*C) (°C)	~~RH WET BULB~~ (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
069	57	00.62	N	168	59.47	W	13	SEP	12	01	50	6.2	80.	19			316	12				80	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)							CTD MAX. DEPTH = 75

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 16-35 **Depth of FL max =** <20 m

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Thus Water column is not 2-layered
SWD

Lots of phyt in Juday net (twice as much as last station)
Rhizosolenia hebetata per Anatoly Volkov
Might have collected chla blanks Juday net

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	10 mab		475	585	207									1
2	50			586				250						2
3	40			587				250						3
4	30			588				250		250				4
5	20			589				250		250			MZ	5
6	10			590				250		250			MZ	6
7	—			—										7
8	0			591				250						8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	**BASIS leg** 2		105

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	~~RH WET BULB~~	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)	
070	56	30.67	N	169	00.70	W	13	SEP	12	14	12	6.7	99.	13			156	15				100	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)								CTD MAX. DEPTH = 96
					12					

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 22 - ~35 m **Depth of FL max =** < 25 m

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

TSG sample

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	10 ~~96~~			592										1
2	75			593										2
3	50			594				250						3
4	40			595				250						4
5	30			596		500	500	250		250				5
6	20			597				250						6
7	—													7
8	10			598				250		250		✓		8
9	0			599	064			250						9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	**BASIS leg** 2		106

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	%RH ~~WET BULB~~	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)	
071	56	00.44	N	168	59.77	W	13	SEP	12	19	31	6.7	97.008				143	20				1300	106

Sensor IDS (initially & swap-outs)		Local Time (AKDT)								CTD MAX. DEPTH = 348
					12					

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= ~22-35 m **Depth of FL max =** <22 m

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	340		.476	42	.187									1
2	250			43										2
3	150			44										3
4	100			45										4
5	50			46				250						5
6	40			47				250						6
7	—			—										7
8	30			48				250		250				8
9	20			49				250						9
10	—			—										10
11	10			50				250	250	250	250			11
12	0			51				250						12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		107

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE (note if not) DAY	MO	YR	GMT Time HR	MIN	Temp (*C) (°C)	~~WET BULB~~ RH (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
072	56	00.14	N	169	58.96	W	14	SEP	12	02	20	9.5	100.	01			062	8				289	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)						CTD MAX. DEPTH = 284
				12				

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= **Depth of FL max =** ~14m

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Chla blanks
TSG sample for chla

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	284			52										1
2	200			53										2
3	100			54										3
4	75			55										4
5	50			56				250						5
6	40			57				250						6
7	—			—										7
8	30			58				250						8
9	20			59				250		250				9
10	—													10
11	10			60				250		250				11
12	0			61	·171			250						12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		110

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE (note if not) DAY	MO	YR	GMT Time HR	MIN	Temp (*C) (°C)	~~RH WET BULB~~ (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
073	56	30.20	N	169	59.82	W	14	SEP	12	14	29	6.3	101.	05			321	06				102	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)						CTD MAX. DEPTH = 97
			12					

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 8 - 14 **Depth of FL max =** <14 <1 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Sec Sal spiky @ ~12m & 2m

TS6 sample for chla

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	Bot 97			63	226									1
2	75			64										2
3	50			65				250						3
4	40			66				250						4
5	30			67				250						5
6	20			68				250		250				6
7	—													7
8	10			69		500	500	250		250		✓		8
9	0		477	70				250						9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		112

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	~~RH WET BULB~~	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)	
074	56	59.53	N	170	00.70	W	14	SEP	12	19	59	6.4	99.	06			096	08				69	

Sensor IDS (initially & swap-outs) | **Local Time (AKDT)** 12 | CTD MAX. DEPTH = 65

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= ~17-20 m & ~38-40 m **Depth of FL max =** <18 m ~3.5 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Rhizosolenia in Juday zoopl. net (pennate diatom)

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1 10	65			71										1
2	50			72				250						2
3	40			73				250						3
4	30			74				250		250				4
5	20			75				250		250			MZ	5
6	10			76				250		250	250		MZ	6
7	—			—										7
8	0			77	.46			250	250					8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson		BASIS leg_____		114

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	GMT DATE MO	GMT DATE YR (note if not)	GMT Time HR	GMT Time MIN	Temp (*C) (°C)	~~RH WET BULB~~ (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
075	57	29.80	N	170	00.31	W	15	SEP	12	02	08	6.6	90.	05			035	12				69	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)																						CTD MAX. DEPTH = 66
									12														

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 34 - 36 **Depth of FL max =** 20m

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

CHL BLANKS

Phyt in bongo

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Hydro Team-PMEL Nut.Btl	Hydro Team-PMEL Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples FROZEN NUTS	Nisk #
110m	66		.478	78	.016								600	1
2	50			79				250					601	2
3	40			80				250					602	3
4	30			81				250		250			603	4
5	20			82				250					604	5
6	10			83				250		250			605	6
7	—			—									—	7
8	0			84				250					606	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	OY12-08	BASIS leg 2		115

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE (note if not) DAY	MO	YR	GMT Time HR	MIN	Temp (*C) (°C)	RH % ~~WET BULB~~ (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
076	57	59.56	N	170	00.14	W	15	SEP	12	07	42	6.8	90.7	05			022	12				73	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)									CTD MAX. DEPTH = 69
				12							

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 22-25 **Depth of FL max =** 10m

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples Frozen Nuts	Nisk #
1	5 mab 69m			85									607	1
2	50			86				250					608	2
3	40			87				250					609	3
4	30			88				250					610	4
5	20			89				250					611	5
6	10			90				250		250			612	6
7	—			—									—	7
8	0		.239	91	.239			250		250			613	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		117

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	WET BULB	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)	
077	58	29.53	N	169	59.95	W	15	SEP	12	14	13	7.1	93.	05			009	33				72	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)								CTD MAX. DEPTH =
				12					

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= ~18-22m **Depth of FL max =** Top 21m ~2 μg L⁻¹

Weather: Dark

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Over cold pool (T < 2°C), Bottom T ~ 0.7°C
Last station before hiding from storm

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
15 max				92	.221								614	1
2	50			93				250					615	2
3	40			94				250					616	3
4	30			95				250		250			617	4
5	20			96				250					618	5
6	10			97		500	500	250		250		✓	619	6
7	—		—	—	—								—	7
8	0		.479	98				250					620	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg II		118

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	GMT DATE MO (note if not)	GMT DATE YR	GMT Time HR	GMT Time MIN	Temp (°C)	RH% ~~WET BULB~~ (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
078	62	11.70	N	174	17.93	W	18	SEP	12	07	49	2.8	74.0	98			354	12				70	M8-E

Sensor IDS (initially & swap-outs)		Local Time (AKDT)						CTD MAX. DEPTH = 66
				12				

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 24 - **Depth of FL max =** none

Weather: partly cloudy seas: 2-3

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nutr 106 used for Underway

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Hydro Team-PMEL Nut.Btl	Hydro Team-PMEL Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples Frozen nuts	Nisk #
1	Smab 66			99									621	1
2	50			100				290					622	2
3	40			101				287					623	3
4	30			102				290					624	4
5	20			103				288					625	5
6	10			104				290					626	6
7	—		—	—									—	7
8	0			105	·290			291					627	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg II		119

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH % ~~WET BULB~~	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)	
079	62	25.06	N	174	41.46	W	18	SEP	12	09	51	2.6	90.	97			347	09				73	M8-N

Sensor IDS (initially & swap-outs)	Local Time (AKDT)							CTD MAX. DEPTH = 69
		12						

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 26-30 m **Depth of FL max =** Spike at ~10m

Weather: mostly cloudy seas 2-3 ft

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples Frozen Nuts	Nisk #
1 S mab	69		•480	107	•289								628	1
2	50			108				290					629	2
3	40			109				287					630	3
4	30			110				290					631	4
5	20			111				288					632	5
6	10			112				290					633	6
7	—		—					—					—	7
8	0			113				291					634	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg II		120

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH % ~~WET BULB~~	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)	
080	62	11.90	N	175	12.41	W	18	SEP	12	11	59	2.8	87.097			051	16				80	M8-W

Sensor IDS (initially & swap-outs)		Local Time (AKDT)								CTD MAX. DEPTH = 76 m
					12					

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 22 - 28 **Depth of FL max =** ~ 28m

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples Frozen Nuts	Nisk #
1 S	mab 76m			114									635	1
2	50			115				290					636	2
3	40			116				287					637	3
4	30			117				290					638	4
5	20			118				288					639	5
6	10			119				290					640	6
7	—		—	—				—					—	7
8	D			120	•280			291					641	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg II		121

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH % ~~WET BULB~~	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)	
081	62	11.95	N	174	45.15	W	18	SEP	12	13	37	2.5	76.0	97			068	15				75	M8

Sensor IDS (initially & swap-outs)	Local Time (AKDT)						CTD MAX. DEPTH = 72
			12				

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 17-23 **Depth of FL max =** ~21 m

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nute 128 is for underway

Bottom temp ~1.7° Center of M8 box

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples Frozen Nuts	Methane	Nisk #
1 Smab	72			121									642	.97	1
2	50			122				290					643		2
3	40			123				287					644		3
4	30			124				290					645	.101	4
5	21							288							5
6	21							290							6
7	—		—	—	—										7
8	21							291							8
9	20			125				290 2					646		9
10	—		—	—	—										10
11	10			126				287 3					647		11
12	0		.481	127	.279			290 4					648		12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY13-08	BASIS leg 2		122

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO	YR	GMT Time HR	MIN	Temp (*C) (°C)	RH WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA NAME/ID
							(note if not)																
082	62	01.77	N	174	39.49	W	18	SEP	12	16	23	2.6	86.	96			032	08				76	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)								CTD MAX. DEPTH = 70
					12					

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 22 – **Depth of FL max =** 22 - 30 ~10mg/m3

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing 70m56

TRANSMISSOMETER MIGHT BE BAD

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	70			129	.286								649	1
2	50			130				290					650	2
3	40			131				287					651	3
4	30			132				290					652	4
5	20			133				288					653	5
6	10			134				290					654	6
7	—			—										7
8	0			135				291					655	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson		BASIS leg_____		123

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	~~RH WET BULB~~	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)	
083	61	58.77	N	174	37.19	W	18	SEP	12	17	06	3.6	77.	96			043	17				77	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)					CTD MAX. DEPTH = 70
			12			

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 20 - 25 **Depth of FL max =** 23-35m

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

M8 - SOUTH

TRANSMISSOMETER DATA SPIKY

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples FROZ. NUTS	Nisk #
1	70		.482	136									656	1
2	50			137				290					657	2
3	40			138				287					658	3
4	30			139				290					659	4
5	20			140				288					660	5
6	10			141				290					661	6
7	—													7
8	0			142	297			291					662	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson		BASIS leg		124

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH ~~WET BULB~~	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)	
084	61	56.63	N	174	22.33	W	18	SEP	12	18	26	3.1	91.	96			058	18				75	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)					CTD MAX. DEPTH = 69
				12			

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 22-

Depth of FL max =

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

70m55

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples FROZ NUTS	Nisk #
1	70			143	287								663	1
2	50			144				290					664	2
3	40			145				287					665	3
4	30			146				290					666	4
5	20			147				288					667	5
6	10			148				290					668	6
7	—													7
8	0			149				291					669	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		125

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	~~WET BULB~~ RH	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)	
085	61	51.78	N	174	05.35	W	18	SEP	12	19	46	4.1	76.	96			034	20				73	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)					CTD MAX. DEPTH = 69
			12			

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 27-28 **Depth of FL max =** 31

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

70m54

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples FROZ NUTS	Nisk #
1	69			150									670	1
2	50			151				290					671	2
3	40			152				287					672	3
4	30			153				290					673	4
5	20			154				288					674	5
6	10			155				290					675	6
7	—													7
8	0		•483	156	•293			291					676	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson		BASIS leg		126

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	~~WET BULB~~ RH	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)	
086	61	43.62	N	173	51.19	W	18	SEP	12	20	59	4.1	76.	96			032	16				73	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)						CTD MAX. DEPTH = 69
				12				

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 22-27 **Depth of FL max =** 25m

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

70m53

SPIKY TRANSMISSOMETER DATA

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples FROZ NIFTS	Nisk #
1	69			157	281								677	1
2	50			158				290					678	2
3	40			159				287					679	3
4	30			160				290					680	4
5	20			161				288					681	5
6	10			162				290					682	6
7	-												—	7
8	0			163				291					683	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	**BASIS leg** 2		127

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH ~~WET BULB~~	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)	
087	61	33.62	N	173	42.80	W	18	SEP	12	22	27	5.2	73.96				020	14				75	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)					CTD MAX. DEPTH =
			1	2		

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 21-24 **Depth of FL max =** 25-32 >28 mg/m3

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

70m52

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples FROZ. NUTS	Nisk #
1	68		.484	164									684	1
2	50			165				290					685	2
3	40			166				287					686	3
4	30			167				290	250LE	250			687 MZ	4
5	20			168				288					688	5
6	10			169				290					689 MZ	6
7	–													7
8	0			170	.284			291					690	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		128

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	~~WET BULB~~ RH	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)	
088	61	24.81	N	173	44.16	W	18	SEP	12	23	29	4.7	74.	97			013	15				76	128

Sensor IDS (initially & swap-outs)		Local Time (AKDT)						CTD MAX. DEPTH =
				12				

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 19-26 **Depth of FL max =** 30

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

70m51

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples FROZ. NUTS	Nisk #
1	72			171	.294								691	1
2	50			172				290					692	2
3	40			173				287					693	3
4	30			174				290					694	4
5	20			175				288					695	5
6	10			176				290					696	6
7	-													7
8	0			177				291					697	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson		BASIS leg_____		129

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH ~~WET BULB~~	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)	
089	61	15.16	N	173	44.42	W	19	SEP	12	0057		4.2	80.	97			352	11				77	129

Sensor IDS (initially & swap-outs)		Local Time (AKDT)						CTD MAX. DEPTH = 69
				12				

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 16-22 **Depth of FL max =** 20m & 34m

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

70m50

Removed chaetognath from chla filter at 50m

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples FROZ NUTS	Nisk #
1	69			178									698	1
2	50			179				290					699	2
3	40			180				287					700	3
4	30			181				290					701	4
5	20			182				288					702	5
6	10			183				290					703	6
7	-													7
8	0		.485	184	.283			291					704	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	**BASIS leg** II		130

CTD consec CAST #	LATITUDE				LONGITUDE				GMT DATE (note if not)			GMT Time		Temp (*C)	RH % ~~WET BULB~~	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)	
090	61	04.19	N		173	49.90	W		19	SEP	12	02	35	3.9	80.0	97			004	17				80	70M49

Sensor IDS (initially & swap-outs)		Local Time (AKDT)						CTD MAX. DEPTH = 73
					12			

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 23-26 **Depth of FL max =** 24 m

Weather: mostly sunny seas: 6-8

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nute bottle #3 was used for underway

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	73			185	185								705	1
2	50			186				290					706	2
3	40			187				287					707	3
4	30			188				290					708	4
5	20			189				288					709	5
6	10			1				290					710	6
7	—			—				—					—	7
8	0			2				291					711	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	OY12-08	**BASIS leg** II		131

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	~~WET BULB~~ RH %	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)	
091	60	54.80	N	173	49.23	W	19	SEP	12	04	05	4.1	77.0	97			016	15				92	70448

Sensor IDS (initially & swap-outs)	Local Time (AKDT)					CTD MAX. DEPTH = 77
			12			

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 21 - 23 **Depth of FL max =** 16-20 m

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Transmissometer reading is (and has been) strange ... erratic

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1 Sfc	77		.486	4									712	1
2	50			5				290					713	2
3	40			6				287					714	3
4	30			7				290					715	4
5	20			8				288					716	5
6	10			9				290					717	6
7	—		—	—	—			—					—	7
8	D			10	.291			291					718	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12 08	BASIS leg II		137

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY (note if not)	MO	YR	GMT Time HR	MIN	Temp (°C) (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
092	60	44.15	N	173	39.18	W	19	SEP	12	05	31	3.3	8.0	97			001	14				74	20CM47

Sensor IDS (initially & swap-outs)		Local Time (AKDT)								CTD MAX. DEPTH = 68
					12					

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 28-32 **Depth of FL max =** surface

Weather: mostly clear seas 4-6

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1 Smab	68			11	.282								719	1
2	50			12				290					720	2
3	40			13				287					721	3
4	30			14				290					722	4
5	20			15				288					723	5
6	10			16				290					724	6
7	—		—	—	—			—	—	—	—		—	7
8	0			17				291					725	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg II		133

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH % ~~WET BULB~~	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)	
093	60	34.33	N	173	38.62	W	19	SEP	12	07	01	3.9	85.	98			015	15				70	70M46

Sensor IDS (initially & swap-outs)	Local Time (AKDT)						CTD MAX. DEPTH = 67
			12				

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 23-27 ; 30-36 **Depth of FL max =** above 25 → about the same

Weather: dark seas : 3-5 ft

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1 Snab	67			18									726	1
2	50			19				290					727	2
3	40			20				287					728	3
4	30			21				290					729	4
5	20			22				288					730	5
6	10			23				290					731	6
7	—			—				—					—	7
8	0		.482	24	.288			291					732	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	**BASIS leg** II		134

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH % ~~WET BULB~~	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)	
094	60	25.62	N	173	35.50	W	19	SEP	12	12	08	4.1	82.0	98			005	13				66	70MHS

Sensor IDS (initially & swap-outs)	Local Time (AKDT)							CTD MAX. DEPTH = 63
				12				

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 25-31 **Depth of FL max =** 3m

Weather: Dark seas: 3-5

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1 Snab	63			25	234								733	1
2	50			26				290					734	2
3	40			27				287					735	3
4	30			28				290					736	4
5	20			29				288					737	5
6	10			30				290					738	6
7	—			—									—	7
8	0			31				291					739	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	**BASIS leg** II		135

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH% ~~WET BULB~~	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)	
095	60	15.17	N	173	31.58	W	19	SEP	12	09	30	3.6	84.0				356	19				71	70M44

Sensor IDS (initially & swap-outs)	Local Time (AKDT)					CTD MAX. DEPTH = 66
			12			

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 21-25 **Depth of FL max =** 21 m

Weather: dark; cold

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1 5mab	66		•488	32									740	1
2	50			33				290					741	2
3	40			34				287					742	3
4	30			35				290					743	4
5	20			36				288					744	5
6	10			37				290					745	6
7	—			—				—					—	7
8	0			38	•112			291					746	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg I		136

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH % ~~WET BULB~~	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)	
096	60	06.19	N	173	19.51	W	19	SEP	12	1047		4.0	82.0				348	13				73	70M43

Sensor IDS (initially & swap-outs)		Local Time (AKDT)						CTD MAX. DEPTH = 68
					12			

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 23-26 m **Depth of FL max =** 20m and above

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1 Surface	68 m			39	.174								747	1
2	50			40				290					748	2
3	40			41				287					749	3
4	30			42				290					750	4
5	20			43				288					751	5
6	10			44				290					752	6
7	—			—				—					—	7
8	0			45				291					753	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	OY12-08	BASIS leg II		132

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	GMT DATE MO (note if not)	GMT DATE YR	GMT Time HR	GMT Time MIN	Temp (*C) (°C)	RH % ~~WET BULB~~ (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
097	60	02.08	N	173	00.55	W	19	SEP	12	12	12	4.1	87.0	98			355	13				68	70M42

Sensor IDS (initially & swap-outs) | **Local Time (AKDT)** 12 | CTD MAX. DEPTH = 65

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 26-31 **Depth of FL max =** surface

Weather: dark; cold seas 4-5 ft

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1 Smal	65			46									754	1
2	50			47				290					755	2
3	40			48				287					756	3
4	30			49				290					757	4
5	20			50				288					758	5
6	10			51				290					759	6
7	—		—	—	—			—					—	7
8	0		.25	.52	.217			291					760	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg II		138

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	GMT DATE MO (note if not)	GMT DATE YR	GMT Time HR	GMT Time MIN	Temp (*C) (°C)	RH % ~~WET BULB~~ (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
098	59	58.50	N	172	45.44	W	19	SEP	12	13	19	3.6	89.0	98			360	12				69	70M41

Sensor IDS (initially & swap-outs)	Local Time (AKDT)			12				CTD MAX. DEPTH = 63

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	~~1066 - EMA~~
PAR S/N	~~70103 - EMA~~
O2 SBE42S/N	N/A

Pycnocline Depth= 24-31 **Depth of FL max =** 0-24

Weather: dark; cold seas 3-4 ft

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

PAR & transmissometer off for this cast

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1 5 MAX	63			53	202								761	1
2	50			54				290					762	2
3	40			55				287					763	3
4	30			56				290					764	4
5	20			57				288					765	5
6	10			58				290					766	6
7	—			—				—					—	7
8	0			59				291					767	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg II		139

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	WET BULB	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)	
099	59	54.75	N	172	26.53	W	19	SEP	12	14	50	3.7	88.	98			328	12				75	70M40

Sensor IDS (initially & swap-outs) | **Local Time (AKDT)** 12 | CTD MAX. DEPTH = 68

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
~~Transmiss S/N~~	~~1066 - EMA~~
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 26-27 **Depth of FL max =** above 25m but minuscule

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nuke #60 used for underway

PAR is back on; transmissometer is off

PAR looks bad (PAR cable wasn't seated well on 9t. Par end not checked.)

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples FROZ NUTS	Nisk #
1 5 m	71		.26	61									768	1
2	50			62				290					769	2
3	40			63				287					770	3
4	30			64				290					771	4
5	20			65				288					772	5
6	10			66				290					773	6
7	—		—	—	—			—					—	7
8	0			67	.211			291					774	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		140

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	GMT DATE MO	GMT DATE YR	GMT Time HR	GMT Time MIN	Temp (*C) (°C)	~~WET BULB~~ RH (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
100	59	53.91	N	172	09.88	W	19	SEP	12	15	54	3.9	80.	98			334	13				73	70m39

Sensor IDS (initially & swap-outs)	
SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
~~Transmiss S/N~~	~~1066 - EMA~~
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Local Time (AKDT) 12

CTD MAX. DEPTH = 67

Pycnocline Depth= 24 - 27 **Depth of FL max =** 25 all < 1 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

M5 WEST 70m39

No transmissometer

Par data bad - Par cable end leaked in addition to not being seated on 9+ during CTD 099. ↳ Corrosion.

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut Btl	Oxy Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	70			68	.072								775	1
2	50			69				290					776	2
3	40			70				287					777	3
4	30			71				290					778	4
5	20			72				288					779	5
6	10			73				290					780	6
7														7
8	0			74				291					781	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		141

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE (note if not) DAY	MO	YR	GMT Time HR	MIN	Temp (*C) (°C)	RH WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
101	60	04.93	N	171	59.77	W	19	SEP	12	17	29	3.5	3.	98			295	16				64	70M38

Sensor IDS (initially & swap-outs)		Local Time (AKDT)				12				CTD MAX. DEPTH = 56

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 26-28 m **Depth of FL max =** 26 m ~2.9 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

M5 NORTH
70M38

PAR cable replaced prior to cast-
PAR looks good again for first 22 m then looked bad
PAR cable had leaked @ PAR end
No transmissometer → Corrosion

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut Btl	Oxy Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples FROZ NUTS	Nisk #
1	58			75									782	1
2	50			76				290					783	2
3	40			77				287					784	3
4	30			78				290					785	4
5	20			79				288					786	5
6	10			80				290					787	6
7														7
8	0		.27	81	.74			291					788	8
9														9
10														10
11														11
12														12

3649635036

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson		BASIS leg_____	- 40156011	142

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	~~WET~~ RH BULB	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)	
102	59	53.35	N	171	42.81	W	19	SEP	12	19	18	4.0	92.	98			294	18				72	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)										CTD MAX. DEPTH = 65
					12							

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 4603-PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 26 - **Depth of FL max =** Surf → 28

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

swapped out PARs prior to this cast 70m38M5
par cable changed back to one used on CTD099 and CTD100 after cleaning & drying.
changed PAR posn on rosette so sample bottles changed abt
No transmissometer, PAR looks good!

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples ~~FROZ NITS~~ meth	Nisk #
1	68			82	•176								789 23	1
2	50			83				290					790	2
3	—			—				—					—	3
4	40			84				290					791 23	4
5	30			85				288					792	5
6	20			86				290					793	6
7	18c			—				290						7
8	18b			—				288						8
9	18a			—				290						9
10	—			—				—						10
11	10			87				287					794	11
12	0			88				291					795 112	12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		143

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	GMT DATE MO	GMT DATE YR	GMT Time HR	GMT Time MIN	Temp (*C) (°C)	~~RH WET BULB~~ (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA-NAME/ID
103	59	53.87	N	171	15.38	W	19	SEP	12	21	56	5.2	88.	99			315	15				73	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)								CTD MAX. DEPTH = 64
					12					

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
~~Transmiss S/N~~	~~1066 - EMA~~
PAR S/N	~~70108 - EMA~~ 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 26 - 30 **Depth of FL max =** ∠25m ~1.5mg/m3

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

M5-EAST

Transmissometer not on CTD

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	68		28	89									796	1
2	50			90				290					797	2
3	—												—	3
4	40			92				290					799 799	4
5	30			93				288					800 800	5
6	20			94				290					801 801	6
7	10			91				287					798 798	7
8	0			95	133			291					802 802	8
9														9
10	—													10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	D412-08	BASIS leg 2		144

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH ~~WET BULB~~	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)	
104	59	46.58	N	171	27.03	W	19	SEP	12	23	13	5.4	89.	00			311	17				73	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)										CTD MAX. DEPTH = 66
				12							

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 4603-PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 26-28 m **Depth of FL max =** ∠ 26m ~1 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

70m37

TRANSMISSOMETER BACK ON CTD

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples FROZ. NUTS	Nisk #
1	69			96	32								803	1
2	50			97				290					804	2
3	—			—										3
4	40			98				290					805	4
5	30			99				288					806	5
6	20			100				290					807	6
7	10			101				287					808	7
8	0			102				291					809	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	D412-08	BASIS leg 2		145

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH ~~WET BULB~~	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)	
105	59	42.01	N	171	30.36	W	19	SEP	12	23	55	4.9	88.	00			311	17				76	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)					CTD MAX. DEPTH = 67
			12			

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70109 - EMA~~ 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 27-33 m **Depth of FL max =** ∠28 ~1.5 mg/m3

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

M5-SOUTH

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	70			103									810	1
2	50			104				290					811	2
3	—		—											3
4	40			105				290					812	4
5	30			106				288					813	5
6	20			107				290					814	6
7	10			108				287					815	7
8	0		.29	109	.173			291					816	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		146

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	GMT DATE MO	GMT DATE YR	GMT Time HR	GMT Time MIN	Temp (*C) (°C)	RH WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
106	59	42.90	N	171	09.09	W	20	SEP	12	01	41	5.6	88.	01			310	14				73	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)	12	CTD MAX. DEPTH = 67
SBE type and S/N	9 11plus - Dyson	Pycnocline Depth= 28-35 m		Depth of FL max = < 14m ~2 mg/m³
PRESS S/N	772 - Dyson	Weather:		& 36-38 m ~1 mg/m³
TEMP 1 &2 SNs	2376 and 4379 - Dyson	COMMENT: Difficult conditions, factors that may affect measurements or aid processing		
COND 1&2 S/Ns	2985 and 3127 - Dyson			70m36
FLUOR S/N	759 - EMA	Note 117 used for underway sample		
O2 (SBE43) S/N	904 and 910 - PMEL			
Transmiss S/N	1066 - EMA			
PAR S/N	~~70103 - EMA~~ 4603 PMEL			
O2 SBE42S/N	N/A			

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	67			110	X099								817	1
2	50			111				290					818	2
3	—													3
4	40			112				290					819	4
5	30			113				288					820	5
6	20			114				290					821	6
7	10			115				287					822	7
8	0			116				291					823	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	**BASIS leg** II		147

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH % ~~WET BULB~~	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)	
107	59	35.61	N	170	56.11	W	20	SEP	12	03	10	4.9	90.0	02			314	13				72	70M35

Sensor IDS (initially & swap-outs)		**Local Time (AKDT)**	12	CTD MAX. DEPTH = 68
SBE type and S/N	9 11plus - Dyson	**Pycnocline Depth=** 27-32	**Depth of FL max =** ~10m	
PRESS S/N	772 - Dyson	**Weather:**		
TEMP 1 &2 SNs	2376 and 4379 - Dyson	**COMMENT: Difficult conditions, factors that may affect measurements or aid processing**		
COND 1&2 S/Ns	2985 and 3127 - Dyson			
FLUOR S/N	759 - EMA			
O2 (SBE43) S/N	904 and 910 - PMEL			
Transmiss S/N	1066 - EMA			
PAR S/N	~~70103 - EMA~~ 4603 PMEL			
O2 SBE42S/N	N/A			

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	68		x 30	118									824	1
2	50			119				290					825	2
3	—							—						3
4	40			120				290					826	4
5	30			121				288					827	5
6	20			122				290					828	6
7	10			123				287					829	7
8	0			124	x 059			291					830	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg II		148

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH% ~~WET BULB~~	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)	
108	59	26.33	N	170	54.67	W	20	SEP	12	04	18	4.8	90.	02			306	12				73	70M34

Sensor IDS (initially & swap-outs)	Local Time (AKDT)					CTD MAX. DEPTH = 69
			12			

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ H603PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 26 - 29 **Depth of FL max =** above 25m ~1.5 mg/m3

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	68			125	x 198								831	1
2	50			126				290					832	2
3	—			—				—					—	3
4	40			127				290					833	4
5	30			128				288					834	5
6	20			129				290					835	6
7	10			130				287					836	7
8	0			131				291					837	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg II		149

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH % ~~WET BULB~~	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)	
109	59	20.07	N	170	39.31	W	20	SEP	12	05	49	4.6	91.	03			311	15				70	70M33

Sensor IDS (initially & swap-outs)	Local Time (AKDT)					CTD MAX. DEPTH = 68
			12			

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 25 - 28 **Depth of FL max =** 20m and above small spike at 50M

Weather: partly cloudy seas 2-3 ft

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	67			132									838	1
2	50			133				290					839	2
3	—			—				—					—	3
4	40			134				290					840	4
5	30			135				288					841	5
6	20			136				290					842	6
7	10			137				287					843	7
8	0		×31	138	×207			291					844	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	**BASIS leg** II		150

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY (note if not)	MO	YR	GMT Time HR	MIN	Temp (*C) (°C)	RH% ~~WET BULB~~ (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
110	59	14.65	N	170	24.35	W	20	SEP	12	06	58	4.7	91.	04			310	15				69	70M32

Sensor IDS (initially & swap-outs)	Local Time (AKDT)			12				CTD MAX. DEPTH = 67

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ H603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 25-31 **Depth of FL max =**

Weather: ~1 mg/m³ above 25 m

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	67			139	x064								845	1
2	50			140				290					846	2
3	—		—	—	—	—		—					—	3
4	40			141				290					847	4
5	30			142				288					848	5
6	20			143				290					849	6
7	10			145	*Note: out of sequence			287					850	7
8	0			144				291					851	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg II		151

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE (note if not) DAY	MO	YR	GMT Time HR	MIN	Temp (*C) (°C)	RH % ~~WET BULB~~ (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
111	59	06.71	N	170	14.67	W	20	SEP	12	08	21	5.0	90.	05			293	13				69	70M31

Sensor IDS (initially & swap-outs)	Local Time (AKDT)			12					CTD MAX. DEPTH = 65

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ H603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 26 - 29 m **Depth of FL max =** ~ 1.2 mg/m³ above 25m

Weather: Dark seas 3-4 ft.

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	65		* 32	146									852	1
2	50			147				290					853	2
3	–													3
4	40			148				290					854	4
5	30			149				288					855	5
6	20			150				290					856	6
7	10			151				287					857	7
8	0			152	* 187			291					858	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg II		152

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH% ~~WET BULB~~	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)	
112	58	57.09	N	170	19.21	W	20	SEP	12	09	29	4.9	89.	06			294	13				71	70M30

Sensor IDS (initially & swap-outs)	Local Time (AKDT)										CTD MAX. DEPTH = 68
					12						

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 24-28 **Depth of FL max =**

Weather: dark seas: 3-5 ~ 0.8 mg/m³ above 24 m

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	67			153	*171								859	1
2	50			154				290					860	2
3	—		—	—	—			—					—	3
4	40			155				290					861	4
5	30			156				288					862	5
6	20			157				290					863	6
7	10			158				287					864	7
8	0			159				291					865	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	**BASIS leg** II		153

CTD consec CAST #	LATITUDE				LONGITUDE				GMT DATE (note if not)			GMT Time		Temp (*C)	RH% ~~WET BULB~~	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)	
113	58	46.65	N		170	17.71	W		20	SEP	12	10	50	4.8	89.	07			292	12				72	70M29

Sensor IDS (initially & swap-outs)		Local Time (AKDT)								CTD MAX. DEPTH = 68
					1	2				

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ H603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= **Depth of FL max =**

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	68			160									866	1
2	50			161				290					867	2
3	—		—	—	—			—					—	3
4	40			162				290					868	4
5	30			163				288					869	5
6	20			164				290					870	6
7	10			165				287					871	7
8	0		x33	166	x226			291					872	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	**BASIS leg** II		154

CTD consec CAST #	LATITUDE				LONGITUDE				GMT DATE (note if not)			GMT Time		Temp (*C)	RH% ~~WET BULB~~	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)	
114	58	36.92	N		170	17.05	W		20	SEP	12	11	53	5.0	86.	07			301	10				73	70M28

Sensor IDS (initially & swap-outs)	Local Time (AKDT)								CTD MAX. DEPTH = 70
				12					

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 41603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 24-30 **Depth of FL max =**

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	70			167	×221								873	1
2	50			168				290					874	2
3	—		—	—	—			—					—	3
4	40			169				290					875	4
5	30			170				288					876	5
6	20			171				290					877	6
7	10			172				287					878	7
8	0			173				291					879	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg II		155

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE (note if not) DAY	MO	YR	GMT Time HR	MIN	Temp (*C) (°C)	RH % ~~WET BULB~~ (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
115	58	26.73	N	170	11.96	W	20	SEP	12	13	16	4.7	90.	07			285	09				74	70W27

Sensor IDS (initially & swap-outs)	Local Time (AKDT)			12				CTD MAX. DEPTH = 69

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~Z0103 - EMA~~ 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 22 – 28 **Depth of FL max =**

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	69		x 34	174									880	1
2	50			175				290					881	2
3	—			—				—					—	3
4	40			176				290					882	4
5	30			177				288					883	5
6	20			178				290					884	6
7	10			179				287					885	7
8	0			180	x239			291					886	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg II		156

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO	YR	GMT Time HR	MIN	Temp (*C) (°C)	RH% ~~WET BULB~~ (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
116	58	16.80	N	170	6.29	W	20	SEP	12	14	31	4.8	91.	08			295	08				73	70M26

Sensor IDS (initially & swap-outs)	Local Time (AKDT)						CTD MAX. DEPTH = 64
				12			

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 27 - 30 **Depth of FL max =** 27 m ~2.5 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nute #2 used for underway sample

Broke off 70m isobath to go fishing after this CTD

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	68			181	016								887	1
2	50			182				290					888	2
3	—			—				—					—	3
4	40			183				290					889	4
5	30			184				288					890	5
6	20			185				290					891	6
7	10			186				287					892	7
8	0			1				291					893	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson		BASIS leg_____		157

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE (note if not) DAY	MO	YR	GMT Time HR	MIN	Temp (*C) (°C)	~~RH WET BULB~~ (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
117	58	29.67	N	169	59.84	W	20	SEP	12	16	12	4.8	88.	08			345	09				72	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)			12				CTD MAX. DEPTH = 64

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 25-27m **Depth of FL max =** ~11m ~1.2 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

CTD before bongo & then mid-water trawl

All chl used 250 ml bottles for Unstack GFF + >10
500 ml bottles used for Stacked system

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	67			3									894	1
2	50			4				290					895	2
3														3
4	40			5				290					896	4
5	30			6				288		250			897	5
6	20			7				290					898	6
7	10			8		500	500	287		250			899	7
8	0		.35	9	.46			291					900	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson		BASIS leg_____		158

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO	YR	GMT Time HR	MIN	Temp (*C) (°C)	~~WET BULB~~ RH (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
118	58	59.48	N	169	59.17	W	20	SEP	12	20	08	5.58	84.	09			330	08				67	158

Sensor IDS (initially & swap-outs) | **Local Time (AKDT)** 12 | CTD MAX. DEPTH = 60

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 24-26 **Depth of FL max =** ~10 m ~1.4 mg/m^3

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Chl a used 250 ml bottles

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	64			10	.49								901	1
2	50			11				290	250				902	2
3	—												903	3
4	40			12				290					904	4
5	30			13				288					905	5
6	20			14				290		250			906	6
7	10			15				287		250	250		907	7
8	0			16				291					908	8
9														9
10														10
11														11
12														12

VESSEL **Oscar Dyson**	CRUISE ID DY12-08	PROJECT & LEG (if needed) BASIS leg 2	CTD FileName (No need if data is live feed)	STATION NO. 160

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE	(note if not)		GMT Time		Temp (*C)	RH % ~~WET BULB~~	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)	
119	58	59.97	N	170	58.85	W	21	SEP	12	02	46	5.3	76.	09			296	6				78	

Sensor IDS (initially & swap-outs) **Local Time (AKDT)** 12

CTD MAX. DEPTH = 75

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 24-28

Depth of FL max = 10 m

Weather: Mostly clear seas 2-3 ft

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nute #24 used for underway

May be in computer as station 159

Chla blanks, Rhizosolenia habitata in bongo-nets (per A. Volkov)

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples FROZ NUTS	Nisk #
			SALT Btl	Nut.Btl	Oxy.Btl									
1	75		.36	17									908	1
2	50			18				250					909	2
3	—			–				—					—	3
4	40			19				250					910	4
5	30			20				250					911	5
6	20			21				250	250				912 MZ	6
7	10			22				250	250				913 MZ	7
8	0			23	.200			250					914	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		161

CTD consec CAST #	LATITUDE				LONGITUDE				GMT DATE (note if not)			GMT Time		Temp (*C)	RH% ~~WET BULB~~	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)	
120	58	37.05	N		170	16.61	W		21	SEP	12	07	39	4.5	78.	10			272	6				73	70M28

Sensor IDS (initially & swap-outs)	Local Time (AKDT)																								CTD MAX. DEPTH = 69
											12														

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ H603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 23 - 32 **Depth of FL max =** 6 m

Weather: Dark - some stars visible seas 2-3 ft

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	69			25	• 242								915	1
2	50			26				290					916	2
3	—			—				—					—	3
4	40			27				290					917	4
5	30			28				288					918	5
6	20			29				290					919	6
7	10			30				287					920	7
8	0			31				291					921	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	**BASIS leg** 2		162

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH% ~~WET BULB~~	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)	
121	58	27.00	N	170	11.14	W	21	SEP	12	09	05	4.3	78.	10			228	1				75	70M27

Sensor IDS (initially & swap-outs)	Local Time (AKDT)								CTD MAX. DEPTH = 71
				12					

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 22-25 **Depth of FL max =** ~12m about 1 mg/m³

Weather: dark: some stars seas 2-3 Ft

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	71			32									922	1
2	50			33				290					923	2
3	—			—				—					—	3
4	40			34				290					924	4
5	30			35				288					925	5
6	20			36				290					926	6
7	10			37				287					927	7
8	0		.37	38	.060			291					928	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		163

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH % ~~WET BULB~~	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)	
122	58	17.21	N	170	05.50	W	21	SEP	12	10	17	4.9	78.	11			308	1				73	70M26

Sensor IDS (initially & swap-outs)	Local Time (AKDT)										CTD MAX. DEPTH = 70
					12						

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103~~ - EMA 46037 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 25 - 27 **Depth of FL max =** 13m - over 3 mg/m³

Weather: dark - some stars

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	70			39	.058								929	1
2	50			40				290					930	2
3	—			—				—					—	3
4	40			41				290					931	4
5	30			42				288					932	5
6	20			43				290					933	6
7	10			44				287					934	7
8	0			45				291					935	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		164

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH % ~~WET BULB~~	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)	
123	58	08.61	N	169	55.12	W	21	SEP	12	11	32	4.5	77.	11			267	1				72	70M25

Sensor IDS (initially & swap-outs)	Local Time (AKDT)							CTD MAX. DEPTH = 67
				12				

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103~~ - EMA 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 26 - 28 **Depth of FL max =** 10-13 m

Weather: Dark - some stars seas 2-3 ft another peak at 27 m

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	67		38	46									936	1
2	50			47				290					937	2
3	—			—										3
4	40			48				290					938	4
5	30			49				286					939	5
6	20			50				290					940	6
7	10			51				287					941	7
8	0			52	x 111			291					942	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		165

CTD consec CAST #	LATITUDE				LONGITUDE				GMT DATE (note if not)			GMT Time		Temp (*C)	RH % ~~WET BULB~~	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)	
124	58	02.35	N		169	40.50	W		21	SEP	12	12	37	4.4	79.	11			303	8				71	70M24

Sensor IDS (initially & swap-outs)		Local Time (AKDT)								CTD MAX. DEPTH = 66
					12					

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103~~ - EMA 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 28-32 **Depth of FL max =** 30m - spike of 9 mg/m³

Weather: 10m - 6 mg/m³

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	66			53	.05D								943	1
2	50			54				29D					944	2
3	—			—				—					—	3
4	4D			55				29D					945	4
5	3D			56				288					946	5
6	2D			57				29D					947	6
7	1D			58				287					948	7
8	0			59				291					949	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	**BASIS leg** 2		166

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		**GMT DATE** DAY	MO	YR (note if not)	**GMT Time** HR	MIN	Temp (*C) (°C)	RH % ~~WET BULB~~ (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
125	57	54.18	N	169	30.11	W	21	SEP	12	13	56	4.5	80.	11			301	11				69	70M23

Sensor IDS (initially & swap-outs) **Local Time (AKDT)** 12

CTD MAX. DEPTH = 67

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 27-30

Depth of FL max = 4m

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nute 67 used for underway

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	67			60									950	1
2	50			61				290					951	2
3													—	3
4	40			62				290					952	4
5	30			63				288					953	5
6	20			64				290					954	6
7	10			65				289					955	7
8	0		39	66	•234			291					956	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	**BASIS leg** 2		167

CTD consec CAST #	LATITUDE				LONGITUDE				GMT DATE (note if not)			GMT Time		Temp (*C)	~~RH WET BULB~~	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)	
126	57	49.94	N		169	12.14	W		21	SEP	12	15	17	4.7	81.	11			320	06				64	M4W

Sensor IDS (initially & swap-outs)		**Local Time (AKDT)**						CTD MAX. DEPTH = 56
				12				

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 24-28 m **Depth of FL max =** ~25 m ~1.5 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

M4W

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples FROZ NUTS	Nisk #
1	60			68	.174								957	1
2	50			69				290					958	2
3	—													3
4	40			70				290					959	4
5	30			71				288					960	5
6	20			72				290					961	6
7	10			73				287					962	7
8	0			74				291					963	8
9														9
10	—													10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson		BASIS leg_____		168

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	~~WET BULB~~ RH	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)	
127	57	55.19	N	168	59.95	W	21	SEP	12	16	32	4.2	80.	11			340	09				71	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)							CTD MAX. DEPTH = 66
				12				

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 25 - 27 **Depth of FL max =** <20m ~2 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

MHN

SEE O2 1875 had lots of jelly gunk in tubing during this cast

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	67		•40	75									964	1
2	50			76				290					965	2
3	–													3
4	40			77				290					966	4
5	30			78				288					967	5
6	20			79				290					968	6
7	10			80				287					969	7
8	0			81	•217			291					970	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson		BASIS leg_____		169

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	GMT DATE MO	GMT DATE YR	GMT Time HR	GMT Time MIN	Temp (*C) (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
128	57	49.98	N	168	53.30	W	21	SEP	12	17	44	4.2	4.1	11			354	10				72	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)			12						CTD MAX. DEPTH = 64

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 26-30 **Depth of FL max =** >25 m ~1.5 mg/m3

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

M4

CTD 1 OF 2

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	67			82	112								971 135	1
2	50			83				290					972	2
3	—			—									—	3
4	40			84				290					973 118	4
5	31a			85				288					974	5
6	31b							290						6
7	31c							287						7
8	20			86				291					975	8
9	13A							290						9
10	—			—									—	10
11	13B							290						11
12	13C							289						12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson		**BASIS leg**_____		169

CTD consec CAST #	LATITUDE				LONGITUDE				GMT DATE (note if not)			GMT Time		Temp (*C)	~~RH WET BULB~~	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)	
129	57	50.28	N		168	53.40	W		21	SEP	12	1808		4.4	78.	12			340	07				72	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)								CTD MAX. DEPTH = 10
				12						

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70409 - EMA~~ 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= **Depth of FL max =**

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

M4

CTD 2 OF 2

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	10			87				290					976	1
2	0			88				287					977	2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		170

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	GMT DATE MO (note if not)	GMT DATE YR	GMT Time HR	GMT Time MIN	Temp (*C) (°C)	~~WET BULB~~ RH (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
130	57	46.09	N	168	39.46	W	21	SEP	12	20	29	5.4	77.	11			326	11				72	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)			12						CTD MAX. DEPTH = 65

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 46037 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 30-32m **Depth of FL max =** ~26 m ~2.2 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

MHE

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples FROZ, NUTS MZ	Nisk #
1	68			89									978	1
2	50			90				290					979	2
3														3
4	40			91				290					980	4
5	30			92				288					981	5
6	20			93				290		250	250		982 MZ	6
7	10			94				287		250	250		983 MZ	7
8	0		.41	95	.211			291					984	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		171

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	~~RH WET BULB~~	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)	
131	57	35.77	N	168	42.15	W	21	SEP	12	21	59	5.5	75.	11			341	13				72	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)								CTD MAX. DEPTH = 65
				12						

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 25-28 **Depth of FL max =** < 27 ~2.3 mg/L

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

M4-5

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples FOOZ NITS	Nisk #
1	69			96	.74								985	1
2	50			97				290					986	2
3														3
4	40			98				290					987	4
5	30			99				288					988	5
6	20			100				290					989	6
7	10			101				287					990	7
8	0			102				291					991	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson		BASIS leg_____		172

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE (note if not) DAY	MO	YR	GMT Time HR	MIN	Temp (*C) (°C)	~~RH WET BULB~~ (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
132	57	31.54	N	168	36.71	W	21	SEP	12	22	57	5.47	78.	10			346	15				73	70m18

Sensor IDS (initially & swap-outs)		Local Time (AKDT)						CTD MAX. DEPTH = 67
				12				

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 46037 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 25-28 **Depth of FL max =** ~20m ~2.5 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

water slightly aqua-colored (K. Hough) 70m18

Phytoplankton in bongo samples (brownish-slime).

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	69		.42	103									992	1
2	50			104				290					993	2
3														3
4	40			105				290					994	4
5	30			106				288					995	5
6	20			107				290					996	6
7	10			108				287					997	7
8	0			109	.72			291					998	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	D412-08	BASIS leg 2		173

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY (note if not)	MO	YR	GMT Time HR	MIN	Temp (*C) (°C)	RH WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
103	57	31.19	N	168	18.35	W	22	SEP	12	00	02	6.5	83.	10			353	19				72	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)						CTD MAX. DEPTH = 65
				12				

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 46037 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 27 - 31 m **Depth of FL max =** ~25m, 3.5 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

gearwhl tied to the wire (not really aqua - L Eisner) 70m17

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	68			110	202								999	1
2	50			111				290					1000	2
3														3
4	40			112				290					1001	4
5	30			113				288					1002	5
6	20			114				290					1003	6
7	10			115				287					1004	7
8	0			116				291					1005	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson		BASIS leg		174

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE (note if not) DAY	MO	YR	GMT Time HR	MIN	Temp (*C) (°C)	~~WET BULB~~ RH (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	134	57 30.06	N	167	59.42	W	22	SEP	12	01	40	5.9	82.	09			359	20				72	70M16

Sensor IDS (initially & swap-outs)		Local Time (AKDT)								CTD MAX. DEPTH = 64
					12					

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 26 - 31 **Depth of FL max =** ~25m 2.5 mg/m3

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nutr 124 for Underway 70M16

Phyt on 200µl. net (brown slime)

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	67			117									1006	1
2	50			118				290					1007	2
3														3
4	40			119				290					1008	4
5	30			120				288					1009	5
6	20			121				290					1010	6
7	10		.43	122	.173			287					1011	7
8	0			123	OPERATOR ERROR			291					1012	8
9					NO SAMPLE @ 0m									9
10					(but included empty bottle w/full bottles)									10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		175

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH% ~~WET BULB~~	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)	
135	57	29.82	N	167	40.74	W	22	SEP	12	03	03	5.8	83.	07			356	25				72	70M15

Sensor IDS (initially & swap-outs)	Local Time (AKDT)									CTD MAX. DEPTH = 68
				12						

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 26-30 **Depth of FL max =** < 26m ~2 mg/m3

Weather: mostly clear and sunny - seas 2-3 ft

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	68			125	.032								1013	1
2	50			126				290					1014	2
3	–			–										3
4	40			127				290					1015	4
5	30			128				288					1016	5
6	20			129				290					1017	6
7	10			130				287					1018	7
8	0			131				291					1019	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		176

CTD consec CAST #	LATITUDE				LONGITUDE				GMT DATE (note if not)			GMT Time		Temp (*C)	RH% ~~WET BULB~~	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)	
136	57	29.84	N		167	20.93	W		22	SEP	12	04	48	5.2	85.	06			348	27				72	70M14

Sensor IDS (initially & swap-outs)		Local Time (AKDT)						CTD MAX. DEPTH = 67
				1	2			

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 46037 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 25 - 28 **Depth of FL max =** ~ 27m

Weather: mostly sunny seas are building 3-5ft currently

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	66		•44	132									1020	1
2	50			133				290					1021	2
3	—			—										3
4	40			134				290					1022	4
5	30			135				288					1023	5
6	20			136				290					1024	6
7	10			137				287					1025	7
8	0			138	•176			291					1026	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		177

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH% ~~WET BULB~~	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)	
1	3 7	5 7	3 1 . 0 7 N	1 6 7	0 2 . 0 5 W		2 2	S E P	1 2	0 6	1 1	5 . 6	8 6 .	0 6			3 5 2	2 6				7 1	7 0 M 1 3

Sensor IDS (initially & swap-outs)	Local Time (AKDT)										CTD MAX. DEPTH = 67
				1 2							

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 29 - 32 **Depth of FL max =** < 25m

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	67			139	• 133								1027	1
2	50			140				290					1028	2
3	—			—				—						3
4	40			141				290					1029	4
5	30			142				288					1030	5
6	20			143				290					1031	6
7	10			144				287					1032	7
8	0			145				291					1033	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		178

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH% ~~WET BULB~~	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)	
138	57	25.93	N	166	48.97	W	22	SEP	12	07	47	5.2	81.	05			355	25				71	70M12

Sensor IDS (initially & swap-outs)		Local Time (AKDT)										CTD MAX. DEPTH = 66
				12								

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 46037 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 27-31 **Depth of FL max =** <27m

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	66			146									1034	1
2	50			147				290					1035	2
3	–			–				–					–	3
4	40			148				290					1036	4
5	30			149				288					1037	5
6	20			150				290					1038	6
7	10			151				287					1039	7
8	0		.45	152	.207			291					1040	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	**BASIS leg** 2		179

CTD consec CAST #	LATITUDE				LONGITUDE				GMT DATE (note if not)			GMT Time		Temp (*C)	~~RH %~~ ~~WET BULB~~	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)	
139	57	26.06	N		166	30.97	W		22	SEP	12	09	07	5.1	79.	04			357	29				70	70MI11

Sensor IDS (initially & swap-outs)	Local Time (AKDT)																								CTD MAX. DEPTH = 66
											12														

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 46037 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 27 - 31 **Depth of FL max =** surface

Weather: swells building - 5-7 ft

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	66			153	.059								1041	1
2	50			154				290					1042	2
3	-			-				-					-	3
4	40			155				290					1043	4
5	30			156				288					1044	5
6	20			157				290					1045	6
7	10			158				287					1046	7
8	0			159				291					1047	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		180

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH % ~~WET BULB~~	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)	
140	57	25.82	N	166	30.98	W	23	SEP	12	02	47	4.6	68.	DS			315	19				70	70M11

Sensor IDS (initially & swap-outs)		Local Time (AKDT)								CTD MAX. DEPTH = 66
					12					

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70488 - EMA~~ 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 28-33 **Depth of FL max =** < 30m 2.5-2.8 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Note 167 used for underway

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	65		.46	160									1048	1
2	50			161				290					1049	2
3	–			–				–					–	3
4	40			162				290					1050	4
5	30			163				288					1051	5
6	20			164				290					1052	6
7	10			165				287					1053	7
8	0			166	.099			291					1054	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		181

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE (note if not) DAY	MO	YR	GMT Time HR	MIN	Temp (*C) (°C)	~~WET BULB~~ RH % (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
141	57	19.05	N	166	19.89	W	23	SEP	12	04	28	4.5	70.	05			307	22				70	70M10

Sensor IDS (initially & swap-outs)		Local Time (AKDT)						CTD MAX. DEPTH = 66
				12				

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 4603 PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 26-30 **Depth of FL max =**

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	66			168	198								1055	1
2	50			169				290					1056	2
3	—			—				—					—	3
4	40			170				290					1057	4
5	30			171				288					1058	5
6	20			172				290					1059	6
7	10			173				287					1060	7
8	0			174				291					1061	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		182

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	GMT DATE MO	GMT DATE YR (note if not)	GMT Time HR	GMT Time MIN	Temp (*C) (°C)	RH% ~~WET BULB~~ (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
1	42	57 18.92	N	166	00.77	W	23	SEP	12	05	56	4.2	69.	06			317	17				70	M9

Sensor IDS (initially & swap-outs)		Local Time (AKDT)						CTD MAX. DEPTH = 67
				12				

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 28-33 **Depth of FL max =** ≈ 29 m ~3.5 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Hydro Team-PMEL Nut.Btl	Hydro Team-PMEL Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	66			175									1062	1
2	50			176				290					1063	2
3	–			–				–					–	3
4	40			177				290					1064	4
5	30			178				288					1065	5
6	20			179				290					1066	6
7	10			180				287					1067	7
8	0		.47	181	.289			291					1068	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		183

CTD consec CAST #	LATITUDE				LONGITUDE				GMT DATE (note if not)			GMT Time		Temp (*C)	RH % ~~WET BULB~~	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)	
143	57	15.68	N		165	44.92	W		23	SEP	12	07	29	4.3	71.	07			328	23				71	70M8

Sensor IDS (initially & swap-outs)	Local Time (AKDT)							CTD MAX. DEPTH = 68
				12				

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 32 - 34 **Depth of FL max =** <32 3.75 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	68			182									1069	1
2	50			183				290					1070	2
3	—			—				—					—	3
4	40			184				290					1071	4
5	30			185				288					1072	5
6	20			186				290					1073	6
7	10			1				287					1074	7
8	0			2				291					1075	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		183

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	GMT DATE MO (note if not)	GMT DATE YR	GMT Time HR	GMT Time MIN	Temp (*C) (°C)	RH% ~~WET BULB~~ (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
	144	57 06.45	N	165	36.78	W	23	SEP	12	09	36	4.1	80.	08			312	18					70M7

Sensor IDS (initially & swap-outs)	Local Time (AKDT)																						CTD MAX. DEPTH = 67
									12														

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 27 - 31 **Depth of FL max =** < 29 m 3 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

conductivities diverged on downcast around 53 meters. They didn't come back together.

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	67		•48	3									1076	1
2	50			4				290					1077	2
3	—			—				—					—	3
4	40			5				290					1078	4
5	30			6				288					1079	5
6	20			7				290					1080	6
7	10			8				287					1081	7
8	0			9	•279			291					1082	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	**BASIS leg** 2		184

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	RH% ~~WET BULB~~	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)	
145	56	59.49	N	165	22.54	W	23	SEP	12	11	28	4.2	79.	09			291	14				74	70N6

Sensor IDS (initially & swap-outs)	Local Time (AKDT)					CTD MAX. DEPTH = 68
			12			

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 29 – 35 **Depth of FL max =** <30 m – 3 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	68			10	>290								1083	1
2	50			11				290					1084	2
3	–			–				–					–	3
4	40			12				290					1085	4
5	30			13				288					1086	5
6	20			14				290					1087	6
7	10			15				287					1088	7
8	0			16				291					1089	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		185

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (*C)	WET BULB	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)	
146	56	51.26	N	165	07.28	W	23	SEP	12	12	50	4.1	81.	10			294	15				74	70M5

Sensor IDS (initially & swap-outs)	Local Time (AKDT)								CTD MAX. DEPTH = 72
				12					

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 29 - 34 **Depth of FL max =** <28 m ~2.6 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut.Btl	Oxy.Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	72			17									1090	1
2	50			18				290					1091	2
3	–			–				–					–	3
4	40			19				290					1092	4
5	30			20				288					1093	5
6	20			21				290					1094	6
7	10			22				282					1095	7
8	0		.430	23	.287			291					1096	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	JY12-08	BASIS leg 2		187

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO	YR	GMT Time HR	MIN	Temp (°C) (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN (deg)	WIND SPD. (kts)	CLOUD (eml)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA NAME/ID
147	56	54.34	N	164	49.79	W	23	SEP	12	14	51	4.0	82	10			276	16				72	

Sensor IDS (initially & swap-outs)	
SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Local Time (AKDT) 12

CTD MAX. DEPTH = 63

Pycnocline Depth= 28 - 34

Depth of FL max = < 28 m , ~2.6 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

70m4

31 - UNDERWAY

No [illegible]

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut Btl	Oxy Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	68			24	.293								1097	1
2	50			25				290					1098	2
3														3
4	40			26				290					1099	4
5	30			27				288					1100	5
6	20			28				290					1101	6
7	10			29				287					1102	7
8	0			30				291					1103	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	D412-08	BASIS leg 2		188

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO	YR	GMT Time HR	MIN	Temp (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA NAME/ID
148	56	48.55	N	164	34.99	W	23	SEP	12	16	09	4.0	80	11			291	09				174	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)										CTD MAX. DEPTH = 68
					12							

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70103 - EMA~~ 4603-PMEL
O2 SBE42S/N	N/A

Pycnocline Depth= 28-34

Depth of FL max = 28m, 3.3 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

70m3

No ghyt on net - lots of copepods

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Bti	Nut Bti	Oxy Bti	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	70		.431	32									1104	1
2	50			33				290					1105	2
3														3
4	40			34				290					1106	4
5	30			35				288					1107	5
6	20			36				290	250	250			1108 mz	6
7	10			37				287	250	250			1109 mz	7
8	0			38	.297			291					1110	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		189

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO	YR	GMT Time HR	MIN	Temp (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN (deg)	WIND SPD. (kts)	CLOUD (eml)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA NAME/ID
149	56	45.69	N	164	20.57	W	23	SEP	12	17	37	4.0	83	12			236	08				75	

Sensor IDS (initially & swap-outs)	
SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Local Time (AKDT) 12

CTD MAX. DEPTH = 66

Pycnocline Depth= 29-32

Depth of FL max = ~45m ~5.6 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

M2-WEST

TRANSMISSOMETER LOOKS FUNKY BELOW PYCNOCLINE

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut Btl	Oxy Btl	Stacked GFF & >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	70			39	1286								1111	1
2	50			40				290					1112	2
3														3
4	40			41				290					1113	4
5	30			42				288					1114	5
6	20			43				290					1115	6
7	10			44				287					1116	7
8	0			45				291					1117	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		190

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO	YR	GMT Time HR	MIN	Temp (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (eml) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA NAME/ID
150	56	51.11	N	164	03.06	W	23	SEP	12	19	19	5.0	74	12			232	05				73	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)								CTD MAX. DEPTH = 64
					12					

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	~~70488 - EMA~~
O2 SBE42S/N	N/A

Pycnocline Depth= 33-37 Depth of FL max = <35 m

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

CTD 1 OF 2 70m2

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut Btl	Oxy Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	68			46									1118 121	1
2	52			47				290					1119	2
3														3
4	40			48				290					1120 149	4
5	33A							288						5
6	33B							290						6
7	33C							287						7
8	30			49				291					1121	8
9	20			50				290					1122	9
10														10
11	10			51				290					1123	11
12	0		.432	52	.294			289					1124	12

VESSEL **Oscar Dyson**	CRUISE ID	PROJECT & LEG (if needed) **BASIS leg**	CTD FileName (No need if data is live feed)	STATION NO. 190

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE *(note if not)*			GMT Time		Temp (*C)	WET BULB	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)	
151	56	51.35	N	164	03.45	W	23	SEP	12	19	48	8.0						06				73	
													75	12			230	06					

Sensor IDS (initially & swap-outs) **Local Time (AKDT)** 12

CTD MAX. DEPTH = 12

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= **Depth of FL max =**

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

CTD 2 OF 2 70M2

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut Btl	Oxy Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	11 A							.290 "						1
2	11 B							.290						2
3														3
4	11 C							.290						4
5														5
6														6
7														7
8														8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson		BASIS leg		191

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	GMT DATE MO (note if not)	GMT DATE YR	GMT Time HR	GMT Time MIN	Temp (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA NAME/ID
152	57	1.45	N	164	12.91	W	23	SEP	12	22	20	8.4										70	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)																					CTD MAX. DEPTH = 63
									1	2													

71 13 216 01

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 33-40 **Depth of FL max =** 10-35 m 2 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

M2-NORTH

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut Btl	Oxy Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	66			53	283								1125	1
2	50			54				290					1126	2
3														3
4	40			55				290					1127	4
5	30			56				288					1128	5
6	20			57				290					1129	6
7	10			58				287					1130	7
8	0			59				291					1131	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson		BASIS leg		192

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	GMT DATE MO	GMT DATE YR (note if not)	GMT Time HR	GMT Time MIN	Temp (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA NAME/ID
153	56	56.48	N	163	49.81	W	24	SEP	12	00	03	5.2						08				71	
													71	13			183						

Sensor IDS (initially & swap-outs)	
SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Local Time (AKDT) 12

CTD MAX. DEPTH = 63

Pycnocline Depth= 36 - 40

Depth of FL max = 9-12 m, 3.5 mg/m3

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

M2-EAST

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut Btl	Oxy Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	66		• 433	60									1132	1
2	50			61				290					1133	2
3														3
4	40			62				290					1134	4
5	30			63				288					1135	5
6	20			64				290					1136	6
7	10			65				287					1137	7
8	0			66	• 284			291					1138	8
9														9
10														10
11														11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Oscar Dyson	DY12-08	BASIS leg 2		193

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO	YR	GMT Time HR	MIN	Temp (°C) (°C)	RH-2 WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA NAME/ID
154	56	40.00	N	163	51.65	W	24	SEP	12	02	14	6.6	7.7	12			140	11				77	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)								CTD MAX. DEPTH = 73
					12					

SBE type and S/N	9 11plus - Dyson
PRESS S/N	772 - Dyson
TEMP 1 &2 SNs	2376 and 4379 - Dyson
COND 1&2 S/Ns	2985 and 3127 - Dyson
FLUOR S/N	759 - EMA
O2 (SBE43) S/N	904 and 910 - PMEL
Transmiss S/N	1066 - EMA
PAR S/N	70103 - EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 31 -35 **Depth of FL max =** <31 ~ 1.8 mg/m³

Weather:

COMMENT: Difficult conditions, factors that may affect measurements or aid processing

Secondary conductivity offset on upcast above 10m.

M2-SOUTH

Nut 74 - Underway

Nut 186 - Underway on 24 Sept. 2012

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut Btl	Oxy Btl	Stacked GFF + >10 vol	Stacked dup vol	Unstack GFF vol	Unstack GFF dup vol	Unstack >10 vol	Unstack >10 dup vol	POC 500 ml	Comments or other samples	Nisk #
1	73			67	.281								1139	1
2	50			68				290					1140	2
3														3
4	40			69				290					1141	4
5	30			70				288					1142	5
6	20			71				290					1143	6
7	10			72				287					1144	7
8	0			73				291					1145	8
9														9
10														10
11														11
12														12