VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg BE 1	CTD FileName (No need if data is live feed) 20120801	STATION NO. 1

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	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD. (kts)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	[illegible]
001	65	59.90	N	168	29.80	W	07	08	12	15	40	02.0						05			53	

Local Time (AKDT) 07 06 12 07 40

CTD MAX. DEPTH = 50

Sensor IDS (Initially & swap-outs)	
SBE type and S/N	911-EMA
PRESS S/N	775 - EMA
TEMP 1 & 2 SNs	(03P2786 PMEL) and (4394 EMA)
COND 1&2 SNs	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth=

Depth of FL max =

Weather: slightly overcast/sunny

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

well mixed

Blank @ this station.

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team PMEL SAL Btl	Nut Btl	Oxy Btl	Stacked GFF [illegible]	Stacked [illegible]	Unstack GFF [illegible]	Unstack GFF [illegible]	Unstack [illegible]	Unstack [illegible]	[illegible]	Comments or other samples	Nisk #
1														1
2	0 m		1	6				250						2
3	10 m			5				250	250	250	250			3
4	20 m			4				250						4
5														5
6														6
7														7
8														8
9	30 m			3				250		250				9
10	40 m			2				250						10
11	50 m			1				250						11
12														12

VESSEL Bristol Explorer	[illegible]	PROJECT & LEG (if needed) Arctic EIS leg BEI	CTD FileName (No need if data is live feed) 201208007	STATION NO. 00[illegible]

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	WIND SPD.	[illegible]	[illegible]	BOTTOM DEPTH	[illegible]
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)						(kts)			(m)	
002	66	02.77	N	167	21.24	W	08	08	12	03	40	10.7									20	
				Local Time (AKDT)			07	08	12	19	40										CTD MAX. DEPTH = 17	

Sensor IDS (initially & swap-outs)

SBE type and S/N	911 - EMA
PRESS S/N	775 - EMA
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-384P - EMA
O2 (SBE43) S/N	430804 and 43130) - EMA
Transmiss S/N	590 - EMA
PAR S/N	GPCA-33770 (log amp 0021) EMA
O2 SBE43S/N	N/A

Pycnocline Depth= Depth of FL max =

Weather:

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

Slightly overcast, sunny

Nisk #	DEPTH DESIRED	[illegible]	SAL	Nut	Chl	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Nisk #
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9	0 m			9				250						9
10	10 m			8		500	500	250		250		[illegible]		10
11	17 m		2	7				X 250						11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg BE1	201208003	004

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO (note if not)	YR	GMT Time HR	MIN	Temp (°C)	WET BULB (°C)	[illegible] (mb)	[illegible]	WIND DIRN (deg)	WIND SPD. (kts)	[illegible]	[illegible]	BOTTOM DEPTH (m)	[illegible]
003	66	32.76	N	165	58.61	W	08	Aug	12	15	20	09.6								19	

Local Time (AKDT) 08 Aug 12 07 20

CTD MAX. DEPTH = 15

Sensor IDS (initially & swap-outs)

SBE type and S/N	[illegible]9 11 - EMA
PRESS S/N	775 - EMA
TEMP 1 & 2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	590 - EMA
PAR S/N	SPQA 3377 (log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth=

Depth of FL max =

Weather:

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

Slightly overcast, Clear. ~4 ft. swell.

Blank at this station.

Nisk #	DEPTH DESIRED	Rosette [illegible]	Nutrient Team-PMEL SALT Btl	Nut Btl	Oxy Btl	Stacked GFF [illegible] vol	Stacked [illegible] vol	Unstack GFF vol	Unstack GF [illegible] vol	Unstack [illegible]	Unstack [illegible] vol	POC 500ml	Comments or other samples	Nisk #
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9	0		3	12				250						9
10	10			11				250	250	250	250	500		10
11	15			10				250						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg BEI	CTD FileName (No need if data is live feed) 201208 004	STATION NO. 006

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	TYPE	WEATHER	BOTTOM DEPTH (m)	STN NAME ID
004	66	30.09	N	167	15.55	W	08	Aug	12	22	03	10.3										29	

Local Time (AKDT) 08 Aug 12 14 03

CTD MAX. DEPTH = 25

Sensor IDS (initially & swap-outs)

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-894P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	890 - EMA
PAR S/N	SRCA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 8m - 18m **Depth of FL max =** ~10m

Weather:

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

Clear, Sunny

Nisk #	DEPTH DESIRED	Rosette Notes	Nutrient Team PMEL SALT Bot	NUT Bot	Oxy Bot	Stacked GFF Chl vol	Stacked filt vol	Unstack GFF vol	Unstack GFF vol	Unstack vol	Unstack vol	POC	Comments	Nisk #
1														1
2														2
3														3
4	10m			16				250						4
5														5
6														6
7														7
8														8
9	10 m			15		500	500	250		250				9
10	20 m			14				250						10
11	25 m		4	13				250		250				11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg BE1	~~200~~ 201208005	009

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)	WET BULB				WIND DIR	WIND SPD. (kts)				BOTTOM DEPTH (m)	
005	66	30.09	N	168	30.30	W	09	Aug	12	04	56	5.6										52	

Local Time (AKDT) 08 Aug 12 21 54 (+2)

CTD MAX. DEPTH = 45

SensorIDS (initially & swap-outs)	
SBE type and S/N	911-EMA
PRESS S/N	775-EMA
TEMP 1&2 SNs	(03P2766 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-694P-EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	880 - EMA
PAR S/N	SPQA 3377 (log amp 0021) EMA
O2 SBE43 S/N	N/A

Pycnocline Depth= Near surface ?

Depth of FL max =

Weather: Foggy, rain, wind ~20-25k

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

Nisk #	DEPTH DESIRED	Bottle Notes											Comments or other samples	Nisk #
1														1
2	0		5	22				250						2
3	10			21				250		250				3
4	20			20				250						4
5														5
6														6
7														7
8														8
9	30			19				250		250				9
10	40			18				250						10
11	45			17				250						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (If needed) Arctic EIS leg BE1	CTD FileName (No need if data is live feed) 201208006	STATION NO. 10

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	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIR'N (deg)	WIND SPD. (kts)	CLOUD COVER	CLOUD TYPE	BOTTOM DEPTH (m)	STN. MARKED
006	67	00.30	N	168	29.37	W	09	Aug	12	15	10	4.5									39	
Sensor IDS (initially & swap-outs)	Local Time (AKDT)						09	Aug	12	07	10										CTD MAX. DEPTH = 35	

Sensor IDS:
- SBE (model) S/N: 9/11 - EMA
- PRESS S/N: 775 - EMA
- TEMP 1&2 SNs: (03P2785 PMEL) and (4324 EMA)
- COND 1&2 S/Ns: (304 PMEL) and (43072 EMA)
- FLUOR S/N: WS3S-994R - EMA
- O2 (SBE43) S/N: 430804 and 431301 - EMA
- Transmiss S/N: 680 - EMA
- PAR S/N: SPQA-3377(log amp 0021) EMA
- O2 SBE42S/N: N/A

Pycnocline Depth= 0-2m | Depth of FL max =

Weather: Fog, light rain swell ~ 6ft

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

Nisk #	DEPTH DESIRED	Rosette Notes	Nutrient Tube #PMEL: SALT BTL #	Nut #	OXY BTL	Sieved [illegible]	Sieved [illegible]	Unsieved GFF (ml)	Unsieved GF/F [illegible]	[illegible]	[illegible]	POC [illegible]	Comments on the samples	Nisk #
1														1
2	0			27				250						2
3	10			26				250		250		[illegible]		3
4	20			25				250						4
5														5
6														6
7														7
8														8
9	30			24				250		250				9
10	skip													10
11	35		6	23				250						11
12														12

VESSEL Bristol Explorer	[illegible]	PROJECT & LEG (if needed) Arctic EIS leg BE1	CTD FileName (No need if data is live feed) ~~[illegible]~~ 20120807	STATION NO. ~~[illegible]~~ 13

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE	(note if not)		GMT Time		Temp (°C)	[illegible]	[illegible]	[illegible]	[illegible]	WIND SPD.	[illegible]	[illegible]	BOTTOM DEPTH	[illegible]
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)					(kts)			(m)	
007	67	00.02	N	167	10.06	W	09	Aug	12	22	06	8.4								39	

Local Time (AKDT) 09 Aug 12 14 06

CTD MAX. DEPTH = 35

Sensor IDS (initially & swap-outs)

SBE type and S/N	911 - EMA
PRESS S/N	775 - EMA
TEMP 1 & 2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	990 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE43B/N	N/A

Pycnocline Depth=

Depth of FL max =

Weather: Overcast, seas 4-5 ft.

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

Niskin Bottle 10 not engaged, no collection.

Nisk #	DEPTH DESIRED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Nisk #
1														1
2	0		7	32				250						2
3	10			31		500	500	250	250	250	250			3
4	20			30				250						4
5														5
6														6
7														7
8														8
9	30			29				250		250				9
10	skip													10
11	35			28				250						11
12														12

VESSEL Bristol Explorer	[illegible]	PROJECT & LEG (if needed) Arctic EIS leg BEI	CTD FileName (No need if data is live feed) 201208008	STATION NO. 015

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)	WIND SPD. (kts)	BOTTOM DEPTH (m)
008	67	00.53	N	165	54.39	W	10	Aug	12	03	25	9.9		24

Sensor IDS (Initially & swap-outs)
- SBE type and S/N: 911 - EMA
- PRESS S/N: 775 - EMA
- TEMP 1 & 2 S/Ns: (03P2786 PMEL) and (4394 EMA)
- COND 1 & 2 S/Ns: (304 PMEL) and (43072 EMA)
- FLUOR S/N: WS3S-894P - EMA
- O2 (SBE43) S/N: 430804 and 431301 - EMA
- Transmiss S/N: 690 - EMA
- PAR S/N: SPQA-3377 (log amp 0021) EMA
- O2 SBE42 S/N: N/A

Local Time (AKDT) 09 Aug 12 19 25

CTD MAX. DEPTH = 20

Pycnocline Depth=

Depth of FL max =

Weather: High cloud cover, overcast. Seas ~4ft.

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

Nisk #	DEPTH DESIRED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Nisk #
1														1
2														2
3														3
4	0m		[illegible]	35					250					4
5														5
6														6
7														7
8														8
9	10m			34				250		250				9
10	skip													10
11	20m		8	33				250						11
12														12

VESSEL Bristol Explorer	[illegible]	PROJECT & LEG (if needed) Arctic EIS leg BE1	CTD FileName (No need if data is live feed) 201208009	STATION NO. 17

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)	[illegible]	WIND SPD. (kts)	[illegible]	BOTTOM DEPTH (m)	[illegible]
009	67	00.04	N	164	40.18	W	10	Aug	12	16	40	9.2				27	

Sensor IDS (initially & swap-outs) | Local Time (AKDT) 10 Aug 12 08 40 | CTD MAX. DEPTH = 24

Sensor	ID
SBE type and S/N	9 11-EMA
PRESS S/N	775 - EMA
TEMP 1&2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-984P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42 S/N	N/A

Pycnocline Depth=

Depth of FL max =

Weather: high overcast

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

Blank @ this station.

Nisk #	DEPTH DESIRED	[illegible]	[illegible]	[illegible]	[illegible]	Stacked [illegible]	Stacked [illegible]	Unstack GFF [illegible]	Unstack [illegible]	Unstack [illegible]	Unstack [illegible]	POC [illegible]	Comments or other samples	Nisk #
1														1
2														2
3														3
4	0		9	38				250						4
5														5
6														6
7														7
8														8
9	10			37				250	250	250	250	500		9
10	skip													10
11	20		~~35~~	36				250						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg BE1	CTD FileName (No need if data is live feed) 201208010	STATION NO. 018

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	WIND SPD.	[illegible]	[illegible]	BOTTOM DEPTH	[illegible]
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)						(kts)			(m)	
010	67	30.28	N	164	32.62	W	10	Aug	12	20	59	9.6									30	

Local Time (AKDT) 10 Aug 12 12 59

CTD MAX. DEPTH = 25

Sensor IDS (Initially & swap-outs)

SBE type and S/N	911-EMA
PRESS S/N	775-EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	890 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= shallow fw layer ~2m

Depth of FL max =

Weather: high overcast

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

Nisk #	DEPTH DESIRED	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Nisk #
1														1
2														2
3	0			42				250						3
4	10			41		~~500~~	500	250	~~—~~	250				4
5														5
6														6
7														7
8														8
9	20			40				250						9
10														10
11	25		10	39				250						11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg BEI	201208011	020

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO (note if not)	YR	GMT Time HR	MIN	Temp (°C)	[illegible]	[illegible]	[illegible]	[illegible]	WIND SPD. (kts)	[illegible]	[illegible]	BOTTOM DEPTH (m)	[illegible]
011	67	29.98	N	165	53.39	W	11	Aug	12	02	13	9.8								40	

Sensor IDS (initially & swap-outs) Local Time (AKDT) 10 Aug 12 18 13

CTD MAX. DEPTH = 35

SBE type and S/N 9/11 - EMA

PRESS S/N 775 - EMA

TEMP 1 & 2 S/Ns (03P2786 PMEL) and (4394 EMA)

COND 1&2 S/Ns (304 PMEL) and (43072 EMA)

FLUOR S/N WS3S-994P - EMA

O2 (SBE43) S/N 430804 and 431301 - EMA

Transmiss S/N 990 - EMA

PAR S/N SPQA-3377(log amp 0021) EMA

O2 SBE42S/N N/A

Pycnocline Depth= 14-20m weak.

Depth of FL max =

Weather: High, light cloud cover, calm.

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

Nisk #	DEPTH DESIRED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Unstack GFF	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Nisk #
1														1
2	0		11	47				250						2
3	10			46				250		250				3
4	20			45				250						4
5														5
6														6
7														7
8														8
9	30			44				250		250				9
10	skip													10
11	35			43				250						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg BE1	CTD FileName (No need if data is live feed) 20120801 2	STATION NO. 023

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	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STN COMMENT
01 2	67	30.09	N	167	12.15	W	11	Aug	12	16	55	5.7										46	

Sensor IDS (Initially & swap-outs)

SBE type and S/N	911-EMA
PRESS S/N	775-EMA
TEMP 1&2 SNs	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (03072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Local Time (AKDT) 11 Aug 12 08 55

CTD MAX DEPTH = 40

Pycnocline Depth=

Depth of FL max = ~10m

Weather: High light cloud cvr

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

fired backup for Niskin 10 @ 30m, just reset bottle & testing.

Blank @ this station.

Nisk #	DEPTH DESIRED		Hydro Team PMEL SALT Bt	Nutr Bt	Oxy Bt	Stacked SPF + Nitro vol	Stacked chl vol	Unstack GFF vol	Unstack GFF (un) vol	Unstack 10µ vol	Unstack >20µ vol	POC 500 ml	Comments	Nisk #
1														1
2	0			52				250						2
3	10			51				250	250	250	250	500		3
4	20			50				250		—		250		4
5														5
6														6
7														7
8														8
9	~~30~~			~~49~~				—		—				9
10	30			49				250		250				10
11	40		12	48				250						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg BEI	CTD FileName (No need if data is live feed) 201208013	STATION NO. 025

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO (note if not)	YR	GMT Time HR	MIN	Temp (°C) (°C)	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD. (kts)	CLOUD TYPE	[illegible]	WEATHER	BOTTOM DEPTH (m)	STN NAME
013	67	30.02	N	168	29.64	W	11	Aug	12	22	46	6.5										49	
						Local Time (AKDT)	11	Aug	12	14	46											CTD MAX. DEPTH = 40	

Sensor IDS (initially & swap-outs)

SBE type and S/N	911 - EMA
PRESS S/N	775 - EMA
TEMP 1 & 2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth=

Depth of FL max = 14-16m

Weather: High, Light Cloud Cover, Calm

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

Winch operator error, stopped short of target depth

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL Sal Btl	Nut Btl	Oxy Btl	Stacked GFF >10 vol	Stacked filt vol	Unstack GFF vol	Unstack GFF [illegible] vol	Unstack [illegible] vol	Unstack >10um vol	FCO Sample	Comments or other samples	Nisk #
1														1
2														2
3	0		13	57				250						3
4	10			56		500	500	250		250				4
5														5
6														6
7														7
8														8
9	20			55				250						9
10	30			54				250		250				10
11	40			53				250						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg BE1	CTD FileName (No need if data is live feed) 201208014	STATION NO. 026

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO (note if not)	YR	GMT Time HR	MIN	Temp (°C)	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIR	WIND SPD. (kts)	CLOUD		WEATHER	BOTTOM DEPTH (m)	CTD MAX DEPTH
01 4	67	59.83	N	168	29.71	W	12	Aug	12	03	39	6.5										54	

Local Time (AKDT) 11 Aug 12 19 39

CTD MAX. DEPTH = 55

Sensor IDS (initially & swap-outs)	
SBE type and S/N	9 11 - EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430604 and 431301 - EMA
Transmiss S/N	880 - EMA
PAR S/N	SPQA 3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= ~16m

Depth of FL max = ~30m

Weather: Overcast, light rain

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

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	NUTRI Btl	[illegible]	Stacked GFF+5um vol	Stacked [illegible] vol	Unstack GFF vol	Unstack [illegible] vol	Unstack [illegible]	Unstack [illegible] vol	[illegible]	Comments [illegible]	Nisk #
1														1
2	0			63				250						2
3	10			62				250		250				3
4	20			61				250						4
5														5
6														6
7														7
8														8
9	30			60				250		250				9
10	40			59				250						10
11	55		14	58				250						11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg BE1	201208015	028

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO (note if not)	YR	GMT Time HR	MIN	Temp (°C)	[illegible]	WIND SPD. (kts)	[illegible]	BOTTOM DEPTH (m)	[illegible]
015	68	00.07	N	167	10.21	W	12	Aug	12	16	57	7.3				56	
Local Time (AKDT)							12	Aug	12	08	57					CTD MAX. DEPTH = 50	

Sensor IDS (initially & swap-outs)

SBE type and S/N	9/11 - EMA
PRESS S/N	775 - EMA
TEMP 1&2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SRQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= –

Depth of FL max = ~12 m

Weather: Overcast, fog, calm seas. light rain.

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

Blanks GFF-e 710

Nisk #	DEPTH DESIRED	[illegible]	SALT Bt	NUT Bt	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Nisk #
1														1
2	0		15	69				*250						2
3	10			68				*250	*250	*250	*250	*500		3
4	20			67				*250						4
5														5
6														6
7														7
8														8
9	30			66				*250		*250				9
10	40			65				*250						10
11	50			64				*250						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg BE1	CTD FileName (No need if data is live feed) 20120816	STATION NO. 030

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 DIR (deg)	WIND SPD. (kts)	CLOUD AMT	TYPE	WEATHER	BOTTOM DEPTH (m)	STN WATER
016	68	00.0	N	165	49.99	W	12	Aug	12	23	14	9.6										29	
					Local Time (AKDT)		12	Aug	12	15	14											CTD MAX. DEPTH = 25	

Sensor IDS (initially & swap-outs)	
SBE type and S/N	9 11 -EMA.
PRESS S/N	775 - EMA
TEMP 1 & 2 SNs	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= NA

Depth of FL max = NA

Weather: Overcast, light rain, calm seas

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

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro team-PMEL SALTS	NUTS	Chl	Stacked GFF >20 vol	Stacked GFF vol	Unstack GFF vol	Unstack GFF vol	Unstack 20 um	Unstack vol	POC	Comments on other samples	Nisk #
1														1
2														2
3														3
4	0			43				x 250						4
5														5
6														6
7														7
8														8
9	10			72		x 500	x 500	x 250		x 250				9
10	20			71				x 250						10
11	25		16	70				250						11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg BE1	201208017	032

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO (note if not)	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)	SEA WAVE
017	68	30.03	N	168	30.60	W	13	Aug	12	15	03	7.3										52	

Sensor IDS (Initially & swap-outs) | Local Time (AKDT) 13 Aug 12 07 03 | CTD MAX. DEPTH = 45

Sensor	ID
SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	680 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth=

Depth of FL max = ~13m

Weather: Foggy, calm seas.

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

Tygon tubing on bottle 2 came out of bottom cap while cocking.
Bottle 3 was fired for surface sample, no collection.

skip Salinity bottle 17 to maintain # w/ cast #

GFF < >10 Blank @ this 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/other samples	Nisk #
1	~~7~~ 0		~~17~~	~~78~~				~~250~~					fired bottle 2 w/no caps	1
2	~~7~~ skip												no sample, skip bottle 17 for	2
3	~~7~~ 10			77				250	250	250	250	500	salinity	3
4														4
5														5
6														6
7														7
8														8
9	20			76				250						9
10	30			75				250		250				10
11	40			74				250						11
12									1					12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg BE1	CTD FileName (No need if data is live feed) 201208 018	STATION NO. 035

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)	WET BULB (°C)				WIND SPD. (kts)			BOTTOM DEPTH (m)	
018	68	29.67	N	167	08.43	W	13	Aug	12	22	11	9.9								36	
Sensor IDS (initially & swap-outs)	Local Time (AKDT)						13	Aug	12	14	11									CTD MAX. DEPTH = 30	

Sensor IDS	
SBE type and S/N	911-EMA
PRESS S/N	776 - EMA
TEMP 1 & 2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1 & 2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= ~12m weak   Depth of FL max = ~10m weak.

Weather: Overcast, light rain, seas ~3 ft.

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

Duplicate Nutrient bottles @ all depths

Nisk #	DEPTH DESIRED	Rosette Water	Hydro Team PMEL SALT Btl	Nutri	Chl	Stacked	Stacked	Unstack GFF vol	Unstack GFF dup vol	Unstack	Unstack	POC	Comments on other samples	Nisk #
1														1
2														2
3	0		18	81/85				250						3
4	10			80/84		500	500	250		250				4
5														5
6														6
7														7
8														8
9	20			79/83				250						9
10	skip													10
11	30		18	78/82				250		250				11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (If needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg KE1	201208019	037

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO (note if not)	YR	GMT Time HR	MIN	Temp (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIR (deg)	WIND SPD. (kts)	CLOUD (8th)	TYPE WEATHER	BOTTOM DEPTH (m)	STA NAME
019	68	59.72	N	168	42.52	W	14	AUG	12	04	08	9.7						15			20	

Sensor IDS (initially & swap-outs) Local Time (AKDT) 13 AUG 12 20 08 CTD MAX. DEPTH = 15

Sensor	S/N
SBE type and S/N	911 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= Depth of FL max =

Weather: Overcast, light rain, seas 2-3 ft.

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

Duplicate Nutrients

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team PMEL SALT Btl	Nut Btl	Oxy Btl	Stacked GFF >20 vol	Stacked 10um vol	Unstack GFF vol	Unstack GFF 5um vol	Unstack 20um vol	Unstack [illegible] vol	[illegible]	Comments or other samples	Nisk #
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9	0		19	55/91				250						9
10	10			87/40				250		250				10
11	15			86/65				250						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg BE1	CTD FileName (No need if data is live feed) 201208020	STATION NO. 038

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)	WET BULB (°C)	[illegible]	SEA STATE	VISIBILITY	WIND DIR (deg)	WIND SPD. (kts)	CLOUD	WEATHER	BOTTOM DEPTH (m)	[illegible]
020	68	59.88	N	167	07.28	W	14	Aug	12	16	13	8.4						20			44	

Local Time (AKDT) 14 Aug 12 08 13

CTD MAX DEPTH = 40

Sensor IDS (initially & swap-outs)

SBE type and S/N	9.11 -EMA
PRESS S/N	775 - EMA.
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994R - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SRQA-3377 (log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth=

Depth of FL max = ~16m, light

Weather: Overcast, southerly, seas ~ 7-8 ft.

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

Duplicate Nutrients

Blanks @ this station

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Nut Btl	Oxy Btl	Stacked GFF >5 um vol	Stacked [illegible]	Unstack GFF vol	Unstack GFF dup vol	Unstack [illegible]	Unstack [illegible]	[illegible]	Comments or observations	Nisk #
1														1
2														2
3	0			96/101				250						3
4	10			95/100				250	250	250	250	500		4
5														5
6														6
7														7
8														8
9	20			94/99				250						9
10	30			93/98				250		250				10
11	40		20	92/97				250						11
12														12

VESSEL Bristol Explorer	[illegible]	PROJECT & LEG (if needed) Arctic EIS leg BE1	CTD FileName (No need if data is live feed) 201208	STATION NO. 041

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO (note if not)	YR	GMT Time HR	MIN	Temp (°C) (°C)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	WIND SPD. (kts)	[illegible]	[illegible]	BOTTOM DEPTH (m)	[illegible]
021	68	59.78	N	168	29.43	W	14	Aug	12	23	01	6.7						~20			51	

Local Time (AKDT) 14 Aug 12 15 01

CTD MAX. DEPTH = 45

Sensor IDS (initially & swap-outs)

SBE type and S/N	911 - EMA
PRESS S/N	776 - EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(3004 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-984P - EMA
O2 (SBE43) S/N	4308DV and 431303 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377 (log amp 0021) EMA
O2 SBE42 S/N	N/A

Pycnocline Depth= ~14m Weak

Depth of FL max = 15m

Weather: Overcast, rain, seas 6-8ft.

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

Nisk #	DEPTH DESIRED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Unstack GFF vol	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Nisk #
1														1
2	0		21	107				250						2
3	10			106		500	500	250		250				3
4	20			105				250						4
5														5
6														6
7														7
8														8
9	30			104				250		250				9
10	40			103				250						10
11	45			102				250						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg BEI	CTD FileName (No need if data is live feed) 201208022	STATION NO. 042

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 (m)	WEATHER	BOTTOM DEPTH (m)	STA. TYPE
022	69	30.24	N	168	29.66	W	15	Aug	12	03	04	6.8						20			51	

Sensor IDS (initially & swap-outs)		Local Time (AKDT) 14 Aug 12 1904	CTD MAX. DEPTH = 45
SBE type and S/N	911 -EMA	Pycnocline Depth= ~12-14m, weak	Depth of FL max = ~18m, weak
PRESS S/N	775 - EMA	Weather: overcast, fog, rain, seas ~6ft.	
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)	COMMENT: Difficult conditions, factors that may affect measurements or aid processing	
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)		
FLUOR S/N	WS3S-934P - EMA		
O2 (SBE43) S/N	430804 and 431301 - EMA		
Transmiss S/N	690 - EMA		
PAR S/N	SPQA-3377(log amp 0021) EMA		
O2 SBE42S/N	N/A		

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team (RMB) SALT Btl	NUTS	Oxy Btl	Stacked GFF 20 vol	Stacked 5um vol	Unstack GFF vol	Unstack GFF dup vol	Unstack 5um vol	Unstack 5um dup vol	PRO 50 ml	Comments or other samples	Nisk #
1														1
2	0			113				250						2
3	10			112				250		250				3
4	20			111				250						4
5														5
6														6
7														7
8														8
9	30			110				250		250				9
10	40			104				250						10
11	45		22	108				250						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg BE1	CTD FileName (No need if data is live feed) 2012 08023	STATION NO. 045

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)	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIR.	WIND SPD. (kts)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. COMMENT
023	69	29.56	N	167	02.88	W	15	Aug	12	19	04	7.9						30			46	

Local Time (AKDT): 15 Aug 12 09 04

CTD MAX. DEPTH = 40

Sensor IDS (initially & swap-outs)	
SBE type and S/N	9.11 - EMA
PRESS S/N	775 - EMA
TEMP 1&2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 16-18

Depth of FL max =

Weather: Overcast, rain, seas 8-10 ft.

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

Blanks -

Nisk #	DEPTH DESIRED	Bottle Notes	Hydro Team-PMEL SALT Btl	Nutr Btl	Oxy Btl	Stacked GFF	Stacked	Unstack GFF	Unstack	Unstack	Unstack	POC	Comments on other samples	Nisk #
1														1
2														2
3	0		23	118				x 250						3
4	10			117				x 250	x 250	x 250	x 250	x 500		4
5														5
6														6
7														7
8														8
9	20			116				x 250						9
10	30			115				x 250		x 250				10
11	40			114				x 250						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg BE1	CTD FileName (No need if data is live feed) 20120807?4	STATION NO. 047.

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	TYPE	WEATHER	BOTTOM DEPTH	STA NAME/ID
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)					(deg)	(kts)				(m)	
024	69	29.38	N	165	37.78	W	16	Aug	12	20	35	8.2						25				36	

Sensor IDS (initially & swap-outs) Local Time (AKDT) 16 Aug 12 12 35 CTD MAX. DEPTH = 30

SBE type and S/N.	9 11 - EMA
PRESS S/N	775 - EMA
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N.	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N.	N/A

Pycnocline Depth= Depth of FL max =

Weather: Overcast, rain, seas 6-8ft

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

Blanks

Nisk #	DEPTH DESIRED	Rosette Notes	Nutrient Team PMEL SALT Btl	Nut Btl	Oxygen	Stacked GFF + ... vol	Stacked ... vol	Unstack GFF vol	Unstack GFF dup	Unstack ...	Unstack ... vol	POC ... ml	Comments or ...	Nisk #
1														1
2														2
3														3
4	0			122/126				x250						4
5														5
6														6
7														7
8														8
9	.10			121/125				x250	x250	x250	x250	x500		9
10	20			120/124				x250						10
11	30		24	119/123				x250		x250				11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg BEI	CTD FileName (No need if data is live feed) 201208025	STATION NO. 49

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO (note if not)	YR	GMT Time HR	MIN	Temp (°C)	WIND SPD. (kts)	BOTTOM DEPTH (m)
025	69	30.17	N	164	13.51	W	17	Aug	12	02	20	8.8	15	24
					Local Time (AKDT)		16	Aug	12	18	20		CTD MAX. DEPTH = 20	

Sensor IDS (initially & swap-outs)

SBE type and S/N	911 - EMA
PRESS S/N	775 - EMA
TEMP 1&2 S/Ns	(03P2786 PMEL) and (4394-EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE43S/N	N/A

Pycnocline Depth= Depth of FL max =

Weather: Overcast seas ~4ft.

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

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Lamp PMEL SALT BT	NUT BT	Chl BT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	FCC	Comments on other samples	Nisk #
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9	0		25	124/172				125						9
10	10			126/173		504	500	125		125				10
11	20			127/150				125						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg 3E1	CTD FileName (No need if data is live feed) 2012 08026	STATION NO. 050

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	WIND SPD. (kts)	CLOUD	TYPE	WEATHER	BOTTOM DEPTH (m)	[illegible]
026	70	00.09	N	164	08.14	W	17	Aug	12	14	58	7.6						10				32	

Local Time (AKDT) 17 Aug 12 06 58

CTD MAX. DEPTH = 25

Sensor IDS (initially & swap-outs)

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2786-PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-894P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	990 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth=

Depth of FL max = ~10m

Weather: Overcast, seas ~ 1-2ft.

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

Blanks

Nisk #	DEPTH DESIRED	[illegible]	Hydro Samples (PMEL) SALT Btl	Nut Btl	Oxy Btl	Stacked GFF 5x10 vol	Stacked [illegible]	Unstack GFF Vol	Unstack [illegible]	Unstack [illegible]	Unstack [illegible]	POC 500ml	Comments on other samples	Nisk #
1														1
2														2
3														3
4	0		23	136/140				*125						4
5														5
6														6
7														7
8														8
9	10			135/139				*125	*125	*125	*125	*250		9
10	20			134/138				*250						10
11	25		96	133/137				*250						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg BE1	CTD FileName (No need if data is live feed) 20120802 7	STATION NO. 053

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)	[illegible]	[illegible]	[illegible]	[illegible]	WIND SPD. (kts)	[illegible]	[illegible]	BOTTOM DEPTH (m)	[illegible]
027	70	00.05	N	165	34.70	W	17	Aug	12	21	24	7.4					5			41	

Local Time (AKDT) 17 Aug 12 13 24

CTD MAX. DEPTH = 35

Sensor IDS (Initially & swap-outs)

SBE type and S/N	911-EMA
PRESS S/N	775-EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P-EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377 (log amp 0021) EMA
O2 SBE42 S/N	N/A

Pycnocline Depth= 20-22

Depth of FL max = 10m (surface to 20m)

Weather: high overcast, seas calm

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

Nisk #	DEPTH DESIRED	[illegible]	SAL	Nut	Chl	Stacked GFF	Stacked	Unstacked GFF	Unstack GFF	Unstack	Unstack	[illegible]	Comments or other samples	Nisk #
1														1
2														2
3	0		27	145				125						3
4	10			144		250	250	125		125				4
5														5
6														6
7														7
8														8
9	20			143				250						9
10	30			142				250		250				10
11	35			141				250						11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer	[illegible]	Arctic EIS leg BE1	20120828	056

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO (note if not)	YR	GMT Time HR	MIN	Temp (°C)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	WIND SPD. (kts)	[illegible]	[illegible]	BOTTOM DEPTH (m)	[illegible]
028	70	00.05	N	167	01.33	W	18	Aug	12	04	10	6.9						5			48	
Local Time (AKDT)							17	Aug	12	20	10											

CTD MAX. DEPTH = 42

Sensor IDS (initially & swap-outs)

SBE type and S/N	911-EMA
PRESS S/N	775-EMA
TEMP 1&2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-694P - EMA
O2 (SBE43) S/N	430604 and 431301 - EMA
Transmiss S/N	590 - EMA
PAR S/N	SPQA-3377 (log amp 0021) EMA
O2 SBE43S/N	N/A

Pycnocline Depth= ~22m

Depth of FL max = 17

Weather: light cloud cover, sun

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

Nisk #	DEPTH DESIRED	[illegible]	Hydro Team-PMEL: [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Comments	Nisk #
1														1
2														2
3	0			150				250						3
4	10			149				125		125				4
5														5
6														6
7														7
8														8
9	20			148				125						9
10	30			147				250		250				10
11	40		28	146										11
12								250						12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg BE1	201208029	058

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO (note if not)	YR	GMT Time HR	MIN	Temp (°C) (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN (deg)	WIND SPD. (kts)	CLOUD	WEATHER	BOTTOM DEPTH (m)	[illegible]
029	70	00.03	N	168	29.94	W	18	Aug	12	18	55	5.0						~5			43	

Local Time (AKDT) 18 Aug 12 08 55

CTD MAX. DEPTH = 35

Sensor IDS (initially & swap-outs)

SBE type and S/N	9-11-EMA
PRESS S/N	775-EMA
TEMP 1 & 2 SNs	(03P2786 RMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 RMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P-EMA
O2 (SBE43) S/N	430804 and 431301-EMA
Transmiss S/N	690-EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE43 S/N	N/A

Pycnocline Depth= 7-13m

Depth of FL max = ~25m

Weather: high overcast, partially clear.

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

Blanks

Nisk #	DEPTH DESIRED	[illegible]	Hydro Team/RMEL SALT Btl	Nut Btl	Oxy Btl	Stacked GFF vol	Stacked [illegible]	Unstack GFF vol	Unstack GFF [illegible]	Unstack [illegible]	Unstack [illegible]	POC [illegible]	Comments/other samples	Nisk #
1														1
2														2
3	0		29	155/166				×250						3
4	10			157/159				×250	×250	×250	×250	×500		4
5														5
6														6
7														7
8														8
9	20			153/158				×250						9
10	30			152/157				×125		×125				10
11	35			151/156				×125						11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer	[illegible]	Arctic EIS leg BE1	2012080030	059

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO (note if not)	YR	GMT Time HR	MIN	Temp (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN (deg)	WIND SPD. (kts)	CLOUD AMT	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME ID
030	70	29.66	N	168	30.27	W	18	Aug	12	21	07	6.2						5				40	

Sensor IDS (initially & swap-outs) | Local Time (AKDT) 18 Aug 12 13 07 | CTD MAX. DEPTH = 35

Sensor	S/N
SBE type and S/N	911 -EMA
PRESS S/N	775 - EMA
TEMP 1 & 2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42 S/N	N/A

Pycnocline Depth= ~10-16m ; 25-30m   Depth of FL max = ~35m

Weather: Partially cloudy, sunny

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

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team PMEL SAL Btl	Nut Btl	Oxy Btl	Stacked GFF … Vol	Stacked …	Unstack GFF … Vol	Unstack GFF dup … Vol	Unstack >10um	Unstack >20um … vol	POC 50ml	Comments or other samples	Nisk #
1														1
2														2
3	0			165/170				x 250						3
4	10			169/169		x 500	x 500	x 250		x 250				4
5														5
6														6
7														7
8				1--										8
9	20			163/166				x 250						9
10	30			162/163				x 250		x 250				10
11	35		30	161/166				x 125						11
12														12

VESSEL Bristol Explorer	[illegible]	PROJECT & LEG (if needed) Arctic EIS leg BE1	CTD FileName (No need if data is live feed) 201208031	STATION NO. a6

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)	[illegible]	WIND SPD. (kts)	[illegible]	BOTTOM DEPTH (m)	[illegible]
031	70	30.03	N	167	00.37	W	19	Aug	12	02	18	5.8		05		50	
Local Time (AKDT)							18	Aug	12	18	18					CTD MAX. DEPTH = 45	

Sensor IDS (initially & swap-outs)

SBE type and S/N	9/11 - EMA
PRESS S/N	775 - EMA
TEMP 1 & 2 S/Ns	(03P2786 BMEL) and (4394 EMA)
COND 1 & 2 S/Ns	(3044 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	990 - EMA
PAR S/N	SPQA-3377 (log amp 0021) EMA
O2 SBE43 S/N	N/A

Pycnocline Depth= 0-10m Depth of FL max = ~37m

Weather: overcast

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

Nisk #	DEPTH DESIRED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Nisk #
1														1
2	0		31	176/182				x 250						2
3	10			175/181				x 250		x 250				3
4	20			174/180				x 250						4
5														5
6														6
7														7
8														8
9	30			173/179				x 250		x 250				9
10	40			172/178				x 250						10
11	45			171/177				x 250						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg BE1	CTD FileName (No need if data is live feed) 2012080332	STATION NO. 065

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	PRESSURE	SEA STATE	VISIBILITY	WIND DIR	WIND SPD. (kts)	CLOUD	WEATHER	BOTTOM DEPTH (m)	STA NAME
032	70	30.02	N	166	30.10	W	19	Aug	12	18	14	6.1						~10			43	

Sensor IDS (initially & swap-outs) Local Time (AKDT) 19 Aug 12 10 14 CTD MAX. DEPTH = 35

SBE type and S/N	911, EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394-EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-984P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE43 S/N	N/A

Pycnocline Depth= ~24 Depth of FL max = ~11

Weather: low overcast, light rain, seas 1-2 ft.

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

Blanks

Nisk #	DEPTH DESIRED	Rosette Notes	SAL Btl	Nut Btl	Chl Btl	Stacked GFF vol	Stacked [illegible]	Unstack GFF vol	Unstack [illegible] vol	[illegible]	Unstack [illegible] vol	DOC [illegible]	Comments or other samples	Nisk #
1														1
2														2
3	0			157/192				x 125						3
4	10			186/191				x 125	x 125	x 125	x 125	x 250		4
5														5
6														6
7														7
8														8
9	20			185/190				x 125						9
10	30			149/189				x 125		x 125				10
11	35		32	183/188				x 250						11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg BEI	201208033	068

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)	WET BULB	[illegible]	[illegible]	[illegible]	WIND DIR	WIND SPD.	[illegible]	[illegible]	BOTTOM DEPTH	[illegible]
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)						(kts)			(m)	
033	70	30.01	N	164	00.33	W	20	Aug	12	08	15	7.0						15			43	

Local Time (AKDT) 19 Aug 12 16 15

CTD MAX. DEPTH = 40

Sensor IDS (initially & swap-outs)

- SBE type and S/N: 9.11 - EMA
- PRESS S/N: 775 - EMA
- TEMP 1 &2 S/Ns: (03P2786 PMEL) and (4394 EMA)
- COND 1&2 S/Ns: (304 PMEL) and (43072 EMA)
- FLUOR S/N: WS3S-994P - EMA
- O2 (SBE43) S/N: 430804 and 431301 - EMA
- Transmiss S/N: 890 - EMA
- PAR S/N: SPQA-3377(log amp 0021) EMA
- O2 SBE42S/N: N/A

Pycnocline Depth= ~24-27m

Depth of FL max = ~8-14m

Weather: Sunny, Clear

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

Nisk #	DEPTH DESIRED	Rosette Notes	SALT	NUT	O2	Stacked GFF	Stacked [illegible]	Unstack GFF	Unstack GFF	Unstack [illegible]	Unstack [illegible]	POC	Comments or other samples	Nisk #
1														1
2														2
3	0		33	197/202				x 250						3
4	10			156/201		x 250	x 250	x 125		x 125				4
5														5
6														6
7														7
8														8
9	20			195/200				x 125						9
10	30			164/199				x 250		x 250				10
11	40			183/198				x 250						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg BE1	CTD FileName (No need if data is live feed) 2012080	STATION NO. 071

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO (note if not)	YR	GMT Time HR	MIN	Temp (°C)	[illegible]	WIND SPD. (kts)	[illegible]	BOTTOM DEPTH (m)	[illegible]
034	70	29.92	N	162	31.02	W	20	Aug	12	15	03	7.8		~10		34	

Local Time (AKDT) 20 Aug 12 07 03

CTD MAX. DEPTH = 25

SensorIDS (initially & swap-outs)

- SBE type and S/N: 9/11 - EMA
- PRESS S/N: 775 - EMA
- TEMP1 &2 S/Ns: (03P2786 PMEL) and (4396 EMA)
- COND 1&2 S/Ns: (3041PMEL) and (43072 EMA)
- FLUOR S/N: WS3S-904P - EMA
- O2 (SBE43) S/N: 430801 and 431301 - EMA
- Transmiss S/N: 690 - EMA
- PAR S/N: SPQA-3377(log amp 0021) EMA
- O2 SBE43 S/N: N/A

Pycnocline Depth=

Depth of FL max = ~10

Weather:

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

Nisk #	DEPTH DESIRED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Nisk #
1														1
2														2
3														3
4	0			201/210				*125						4
5														5
6														6
7														7
8														8
9	10			205/209				*125	*125	*125	125	250		9
10	20			204/206				*125						10
11	30		34	203/207				*125		*125				11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg BE1	CTD FileName (No need if data is live feed) 20120803	STATION NO. 073

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	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD. (kts)	CLOUD	WEATHER	BOTTOM DEPTH (m)	[illegible]
035	70	30.00	N	161	00.21	W	20	Aug	12	19	58	9.4						5			25	

Sensor IDS (initially & swap-outs) | Local Time (AKDT) 20 Aug 12 11 58 | CTD MAX. DEPTH = 20

SBE type and S/N	9 11 - EMA
PRESS S/N	775 - EMA
TEMP T1&2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	680 - EMA
PAR S/N	SRQA-3377(log amp 0021) EMA
O2 SBE42 S/N	N/A

Pycnocline Depth= ~10m Depth of FL max = 10m

Weather: Overcast, foggy

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

Blanks

Nisk #	DEPTH DESIRED	Sample Notes	Sal. Btl	Nut Btl	Oxy Btl	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	POC	Comments or Microsamples	Nisk #
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9	0		215/216 →					x 125						9
10	10		[illegible]/25 →			x 250	x 250	x 125		x 125				10
11	20		[illegible] →					x 125						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg 8E1	CTD FileName (No need if data is live feed) 201208 036	STATION NO. 078

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)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIR (deg)	WIND SPD. (kts)	CLOUD AMT	TYPE	WEATHER	BOTTOM DEPTH (m)	[illegible]
036	70	59.61	N	157	45.29	W	21	Aug	12	15	06	9.1						5				25	

Local Time (AKDT) 21 Aug 12 07 06

CTD MAX. DEPTH = 25

Sensor IDS (Initially & swap-outs)

SBE type and S/N	911 EMA
PRESS S/N	775 - EMA
TEMP 1&2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	880 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE43 S/N	N/A

Pycnocline Depth=

Depth of FL max = ~10 m

Weather: High overcast

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

Blanks.

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team/PMEL SALT Btl	Nut Btl	Oxy Btl	Stacked GFF Chl vol	Stacked [illegible] vol	Unstack GFF vol	Unstack [illegible] vol	[illegible]	Unstack [illegible] vol	POC [illegible]	Comments	Nisk #
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9	0		35	214/222				125						9
10	10			216/221				x 125	x 125	x 125	x 125	250		10
11	20			217/220				x 125						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg BEI	CTD FileName (No need if data is live feed) 20120803?7	STATION NO. 077

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)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIR (deg)	WIND SPD. (kts)	CLOUD	TYPE	WEATHER	BOTTOM DEPTH (m)	
037	71	00.08	N	159	17.50	W	21	Aug	12	21	45	7.1						10				52	
Local Time (AKDT)							21	Aug	12	13	45											CTD MAX. DEPTH = 48	

Sensor IDS (Initially & swap-outs)

SBE type and S/N	9.11 -EMA
PRESS S/N	775 - EMA
TEMP 1&2 S/Ns	(03P2786-PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 -EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp.0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth=

Depth of FL max = 12-13m

Weather: Light overcast

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

Nisk #	DEPTH DESIRED	[illegible]	Hydro Sample (MEL) SALT Btl	NUTR Btl	Oxy Btl	Stacked GFF Chl vol	Stacked [illegible] vol	Unstack GFF vol	Unstack [illegible] Vol	Unstack [illegible]	Unstack [illegible] Vol	[illegible]	Comments on other samples	Nisk #
1														1
2														2
3	0			227				*250						3
4	10			226		*500	*500	*250		*250				4
5														5
6														6
7														7
8														8
9	20			225				*125						9
10	30			224				*125		*125				10
11	40			223				*125						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg	CTD FileName (No need if data is live feed)	STATION NO. 9782

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)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	WIND SPD. (kts)	[illegible]	[illegible]	BOTTOM DEPTH (m)	[illegible]
039	71	00.02	N	162	21.89	W	28	AUG	12	18	14	5.8									45	

Local Time (AKDT) 12

CTD MAX. DEPTH = 40

Sensor IDS (initially & swap-outs)

SBE type and S/N	911-EMA
PRESS S/N	775-EMA
TEMP1 &2 S/Ns	(03P2706 PMEL) and (439 EMA)
COND 1&2 S/Ns	(304-PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P-EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	680-EMA
PAR S/N	SPQA-3377(log lamp 0021) EMA
O2 SBE43S/N	N/A

Pycnocline Depth= ~11-16m

Depth of FL max = 16m

Weather:

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

Current running east @ ~0.6 knots

1st Oceanography Main Station, working out the kinks.

Bongo associated cast = 82

Nisk #	DEPTH DESIRED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Comments or other samples	Nisk #
1														1
2	[illegible]			✓										2
3	10			✓237				✓250						3
4	20			✓234				✓250		✓250		~~50~~		4
5														5
6														6
7														7
8	[illegible]													8
9	20			✓235				✓250						9
10	30			✓236				✓250						10
11	40			✓239				✓125						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg	CTD FileName (No need if data is live feed)	STATION NO. 84

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO (note if not)	YR	GMT Time HR	MIN	Temp (°C) (°C)	WET BULB	[illegible]	[illegible]	[illegible]	WIND SPD. (kts)	[illegible]	[illegible]	BOTTOM DEPTH (m)	[illegible]
040	71	00.09	N	163	54.12	W	28	Aug	12	23	54	4.7								43	

Local Time (AKDT) 12 1

CTD MAX. DEPTH =

Sensor IDS (Initially & swap-outs)

- SBE type and S/N: 9 11 - EMA
- PRESS S/N: 775 - EMA
- TEMP 1 &2 S/Ns: (03P2768 PMEL) and (4394 EMA)
- COND 1&2 S/Ns: (304 PMEL) and (43072 EMA)
- FLUOR S/N: WS3S-994P - EMA
- O2 (SBE43) S/N: 430804 and 431301 - EMA
- Transmiss S/N: 890 - EMA
- PAR S/N: SPQA-3327 (log amp 0021) EMA
- O2 SBE42 S/N: NA

Pycnocline Depth= 8-18m Depth of FL max ~ 17m

Weather:

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

Did not take O2 problems w/ dispenser bottles

Nisk #	DEPTH DESIRED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Nisk #
1														1
2														2
3														3
4	0		✓[illegible]	✓238	~~230~~			✓250	✓250		✓250			4
5				✓										5
6				✓										6
7														7
8														8
9	10			✓239				✓250		✓250				9
10	20			✓240				✓250		✓250				10
11	38			✓241				✓250						11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg		86

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)		WIND SPD.		BOTTOM DEPTH	
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)		(kts)		(m)	
041	70	59.86	N	165	25.92	W	29	AUG	12	18	00		.	20		41	

Sensor IDS (initially & swap-outs)

SBE type and S/N	9/11+ - EMA
PRESS S/N	775 - EMA
TEMP 1&2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (4307 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377 (log-amp 8021) EMA
O2 SBE43/IM	N/A

Local Time (AKDT) 12

East/NE

CTD MAX. DEPTH = 38m

Pycnocline Depth= 13 → ~17m

Depth of FL max = 16m

Weather: 20 kts Seas ~ 3ft

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

Nisk #														Nisk #
1														1
2														2
3														3
4	0			242				250						4
5														5
6														6
7														7
8														8
9	10			243			500	250		250		600		9
10	20			244				250		250				10
11	35			245				250						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg	CTD FileName (No need if data is live feed)	STATION NO. 88

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)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	WIND SPD. (kts)	[illegible]	[illegible]	[illegible]	BOTTOM DEPTH (m)	[illegible]
042	70	59.71	N	166	58.42	W	29	AUG	12	19	50	6.2						12				456	

Local Time (AKDT) 12

CTD MAX. DEPTH = 40m

Sensor IDS (initially & swap-outs)

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1&2 SNs	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-894P - EMA
O2 (SBE43) S/N	430804 and 431301 EMA
Transmiss S/N	680 - EMA
PAR S/N	SPQA 3377(log amp 0021) EMA
O2-SBE42S/N	N/A

Pycnocline Depth= 17m → 19m Depth of FL max = ~18m

Weather: NE 12 knots seas ~ 2.879444444

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

Well mixed upper layer

Nisk #	DEPTH DESIRED	Bottle Notes	Hydro Sample # EMA SALTS	NUTS	[illegible]	Stacked [illegible]	Stacked [illegible]	Unstack GFF [illegible]	Unstack GFF [illegible]	[illegible]	[illegible]	POC [illegible]	[illegible]	Nisk #
1														1
2													Blanks	2
3	10m			246				250						3
4	10			247				250		250				4
5														5
6														6
7														7
8														8
9	20			248				250		250				9
10	30			249				250						10
11	40		38	250				250						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg	CTD FileName (No need if data is live feed)	STATION NO. 92

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)	[illegible]	[illegible]	[illegible]	[illegible]	WIND SPD. (kts)	[illegible]	[illegible]	BOTTOM DEPTH (m)	[illegible]
043	71	06.08	N	168	30.07	W	30	AUG	12	04	44	5.8					10			47	

Local Time (AKDT) | 1 | 2

CTD MAX DEPTH = 41m

Sensor IDS (Initially & swap-outs)

SBE type and S/N	911 - EMA
PRESS S/N	775 - EMA
TEMP 1&2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-694P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	880 - EMA
PAR S/N	SPQA-3377(log amp-0021) EMA
O2 SBE42 S/N	N/A

Pycnocline Depth= 14 - 19m

Depth of FL max = ~20 m

Weather: Overcast, Cold! Seas ~2 ft North 10 kts

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

Very salty at bottom!

Nisk #	DEPTH DESIRED	[illegible]	SALT B#	NUTRI	Chl	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Comments or other samples	Nisk #
1														1
2														2
3	0			251		~~500~~	~~500~~	250		2				3
4	10			252		500	500	250		250		500		4
5														5
6														6
7														7
8														8
9	20			253				250						9
10	30			254				250						10
11	40			255				250						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg	CTD FileName (No need if data is live feed)	STATION NO. 93

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)	[illegible]	[illegible]	[illegible]	[illegible]	WIND SPD. (kts)	[illegible]	[illegible]	BOTTOM DEPTH (m)	[illegible]
044	71	29.57	N	168	30.02	W	30	AUG	12	14	57	5.6					20			48	

Local Time (AKDT) | 1 2 | CTD MAX. DEPTH = 43

Sensor IDS (initially & swap-outs)

- SBE type and S/N: 911-EMA
- PRESS S/N: 775-EMA
- TEMP 1 &2 S/Ns: (03P2786,PMEL) and (4394 EMA)
- COND 1&2 S/Ns: (304 PMEL) and (43072 EMA)
- FLUOR S/N: WS3S-996P - EMA
- O2 (SBE43) S/N: 430804 and 431301 - EMA
- Transmiss S/N: 690 - EMA
- PAR S/N: SPQA-3377(log amp 0021) EMA
- O2 SBE42S/N: N/A

Pycnocline Depth= 16 – 18m   Depth of FL max = ~23m

Weather: Overcast   N. 20   seas ~4ft.

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

Well mixed upper layer

Nisk #	DEPTH DESIRED	[illegible]	Salt Bt	Nut Bt	Oxy Bt	Stacked [illegible]	Stacked [illegible]	Unstack Chl vol	Unstack [illegible]	Unstack [illegible]	Unstack [illegible]	Dup [illegible]	Comments [illegible]	Nisk #
1														1
2														2
3	0			256				250						3
4	10			257				250		250	250			4
5														5
6														6
7														7
8														8
9	20			258				250	250					9
10	30			259				250						10
11	40		✓38	260				250						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg	CTD FileName (No need if data is live feed)	STATION NO. 95

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE	(note if not)		GMT Time		Temp (°C)	[illegible]	[illegible]	[illegible]	[illegible]	WIND SPD.	[illegible]	[illegible]	BOTTOM DEPTH	[illegible]
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)					(kts)			(m)	
045	71	59.17	N	166	53.04	W	31	AUG	12			5.3					30			47.8	

Sensor IDS (initially & swap-outs) | Local Time (AKDT) 120244 | CTD MAX. DEPTH = 40

Sensor	S/N
SBE type and S/N	9/11 - EMA
PRESS S/N	775 - EMA
TEMP 1 & 2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-894P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA?
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42 S/N	N/A

Pycnocline Depth= ~16-22m   Depth of FL max = ~27

Weather: W. 30 kts Seas ~ 4 ft temp 43°

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

After 5m drop, not bringing to surface before diving, last stn it hit the boat.

Temp Sensor spike @ ~26m?

Blanks

Alarm sound (data error) at depth aborted, sent off deck unit and brought aboard

Nisk #	DEPTH DESIRED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Comments on water samples	Nisk #
1													Sea cable	1
2													connection to	2
3	~~10~~			~~261~~		250 →		~~250~~					CTD Fried,	3
4	~~10~~			~~262~~		250 →		✓		~~250~~			Got 2 deepest	4
5													water samples,	5
6													re-terminated	6
7													Sea cable on	7
8													winch side, +	8
9	~~20~~			~~263~~		250 →		✗					replaced pigtail	9
10	30			264		250 →		✓		250			on CTD.	10
11	40			265		250 →		✓						11
12														12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg		97

CTD consec CAST #	LATITUDE				LONGITUDE				GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN			DEG	MIN			DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
046	71	59.97	N		165	16.09	W		31	AUG	12	16	51	5.0	15	42

Sensor ID's (Initial) & swap outs

Local Time (AKDT) 12

CTD MAX. DEPTH = 37

Pycnocline Depth= ~14m to 16m Depth of FL max = ~22m

Weather: N-NE 15 kts Seas 3ft

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

CTD-line heading under ships, currents

Nisk #														Nisk #
1														1
2														2
3														3
4	0		✓40	✓263				250						4
5														5
6														6
7														7
8														8
9	10			✓264				250		250				9
10	20			✓265				250		250				10
11	30			✓266				250						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg	CTD FileName (No need if data is live feed)	STATION NO. 99

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)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)
047	72	06.02	N	163	28.51	W	31	AUG	12	22	17	1.5						5				40

Local Time (AKDT) 12 — CTD MAX. DEPTH = 35

Sensor IDS (initially & swap-outs)

SBE type and S/N	911 -EMA
PRESS S/N	775 - EMA
TEMP 1&2 SNs	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P- EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 12m → 14m Depth of FL max = ~21m -25m

Weather: N. 5kts Seas ~2ft

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

Blanks

Sea ice spotted!

Nisk #	DEPTH DESIRED	Rosette Notes	Nutrients PMEL SALT Btl	NUT Btl	Oxy Btl	Stacked GFF vol	Stacked [illegible]	Unstack GFF vol	Unstack GF [illegible] vol	Unstack [illegible]	Unstack [illegible]	TOC	Comments for other samples	Nisk #
1														1
2													Blanks	2
3														3
4	0			267				250	250					4
5														5
6														6
7														7
8														8
9	10			268				250		250	250			9
10	20			269				250		250				10
11	30			270				250						11
12														12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO
Bristol Explorer		Arctic EIS leg		100

CTD consec CAST #	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
048	72	06.45 N	163	00.43 W	01	AUG	12	02	21	-0.4	10	39

Sensor IDS (initially & swap-outs)	Local Time (AKDT)						CTD MAX. DEPTH = 34
				1	2		

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 SNs	(03P2788 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= ~9m — Depth of FL max =

Weather: Cold!

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

Near Sea ice edge

No water collected, Oceanography Station.

Temp + Fluorescence spikes?

Nisk #														Nisk #
1														1
2														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.
Bristol Explorer		Arctic EIS leg		101

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)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
										- (°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	
049	72	30.04 N	162	40.63 W	01	SEP	12	14	51	0.8										41	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)					CTD MAX. DEPTH = 36m
				12		

SBE type and S/N	9 11 -EMA
PRESS S/N	776 - EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= ~12m Depth of FL max = Spikes @ 18, 35', 7m

Weather: Snowing wind ~5kts Seas calm real?

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

Ice in vicinity, should be an oceanography station, will be a main station since we can't go farther east.

2 bottles fired @ 36

Currents taking CTD under ship, maneuvering to avoid it.

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														1
2														2
3	0			271				250						3
4	10			272				250		250		500		4
5														5
6														6
7														7
8														8
9	20			273				250						9
10	36			↓				250						10
11	36		✓41	274				250						11
12														12

20m GFF lost ~15m/s

VESSEL	CRUISE ID	PROJECT & LEG (if seeded)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg		102

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)	
050	72	30.11 N	163	31.16 W	01	Sep	12	18	03	3.6										48m	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)						CTD MAX. DEPTH = 45
				12			

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	660 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= ~12 ? ~16 then gradual Depth of FL max = 14m +22m

Weather:

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

well mixed top 12 meters

very saline bottom

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													Blanks	1
2														2
3	0			275		500ml		250						3
4	10							250		250				4
5														5
6														6
7														7
8														8
9	20							250	250					9
10	30							250						10
11	40							250						11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg		103

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)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME
051	72	30.05 N	164	20.93 W	01	SEP	12	21	59	2.3										50.3	

Local Time (AKDT) | | | 12 | | |

CTD MAX. DEPTH = 45m

Sensor IDS (initially & swap-outs)

SBE type and S/N	9 11 -EMA
PRESS S/N	776 - EMA
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430604 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= ~12 - 13m

Depth of FL max =

Weather:

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

Oceanography Station Only – No Water

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														1
2														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.
Bristol Explorer		Arctic EIS leg		104

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE (note if not) DAY	GMT DATE MO.	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 (octas)	TYPE	WEATHER	BOTTOM DEPTH (m)	SEA CONDITN
052	72	29.89	N	165	10.79	W	01	SEP	12	23	57	1.2						~5				50	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)							CTD MAX. DEPTH = 45
					12			

SBE type and S/N	9 11 -EMA
PRESS S/N	776 - EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= ~12m → 18m? Depth of FL max =

Weather: Sunny, calm, ice bergs!

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														1
2														2
3	0		√42	280				250					Blanks	3
4	10			281				250		250				4
5														5
6														6
7														7
8														8
9	20			282				250		250				9
10	30			283				250						10
11	40			284				250						11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg		105

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)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WEATHER	WIND DIRN (deg)	WIND SPD. (kts)	CLOUD COVER	VISIBILITY	BOTTOM DEPTH (m)	STA. NAME/ID
053	72	27.74	N	166	00.39	W	02	09	12	03	16										50	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)						CTD MAX. DEPTH = 45
					12			

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2788 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	860 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= ~8m top layer Depth of Fl. max = 14, 20, 25

Weather:

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

Oceanography Station.

1 O2 collected at depth; thermometer is broken, looking for another

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														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11	45m				✓ 119									11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg		106

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)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	CLOUD TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA NAME/ID
0354	72	22.77 N	166	48.71 W	02	SEP	12	14	58	1.2			2			10				50	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)			CTD MAX. DEPTH = 48
SBE type and S/N	9 11 -EMA				
PRESS S/N	776 - EMA				
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)				
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)				
FLUOR S/N	WS3S-994P - EMA				
O2 (SBE43) S/N	430604 and 431301 - EMA				
Transmiss S/N	690 - EMA				
PAR S/N	SPQA-3377(log amp 0021) EMA				
O2 SBE42S/N	N/A				

Pycnocline Depth= Depth of FL. max =

Weather: NE 10, seas ~ 1 ft

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

No Oceanography this station, syringes froze last night, thawing under tarp w/ electric heaters + use warm water in syringes.

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														1
2														2
3	0			285		500	500	250						3
4	10			286				250		250		500		4
5														5
6														6
7														7
8														8
9	20			287				250						9
10	30			288				250						10
11	40			289				250						11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg		107

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)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
05	4[illegible]	[illegible]26.97 N	167	40.03 W	02	SEP	12	18	23	2.5										51	

Local Time (AKDT) 1 2

CTD MAX. DEPTH = 45

Sensor IDs [illegible] (& swap-outs)

SBE type and S/N [illegible]

PRESS S/N 775 - EMA

TEMP 1 & 2 SNs [illegible] (EMA)

COND 1&2 S/Ns [illegible] (PMEL) [illegible]

FLUOR S/N WS[illegible]P - EMA

O2 (SBE43) S/N 43[illegible] and 431301 - EMA

Transmiss S/N [illegible] EMA

PAR S/N SPQ[illegible]377(log amp 0021) EMA

O2 SBE42S/N N/A

Pycnocline Depth= ~ 8m   Depth of FL max = ~20 +25 spikes

Weather: wind ~ 15kts Seas ~2ft.

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

Oceanography Station, taking a couple samples since we missed last station due to Freeying

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														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10	10			285	[illegible]			256		250		500		10
11	45			286	216	500	500	256						11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg		108

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	72	29.98 N	168	30.39 W	02	Sep	12	20	30	0.96						15				55	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)				CTD MAX. DEPTH = 50
			12		

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-894P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	890 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 0m → ~14m Depth of FL max = spikey ~15m

Weather: Overcast Wind ~15 Seas ~2ft

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

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	Hydro Team-PMEL NutBtl	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														1
2	0		43	287				250						2
3	10			288				250		250	250			3
4	20			289				250						4
5														5
6														6
7														7
8														8
9	30			290				250	250					9
10	40			291				250						10
11	50			292				250						11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (beaded)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg		109

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)	WET BULB (°C)	PRESSURE (mb)	SEASTATE	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (8ths)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA NAME/ID
												(°C)										
056	71	59.97	N	168	29.37	W	03	SEP	12	00	43	13.5					15				51	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)												CTD MAX. DEPTH = 45
									12				

SBE type and S/N	9 11 -EMA
PRESS S/N	776 - EMA
TEMP 1 &2 S/Ns	(03P2788 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	W83S-994P - EMA
O2 (SBE43) S/N	430604 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= stepped pyc. Depth of FL max = ~ 20

Weather: Wind ~ 15 kts Seas ~ 3-4 ft.

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

Well mixed top 5 m.

Nisk #	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL SALT Btl	NutBtl	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													Blanks	1
2														2
3	0			293				250						3
4	10			294				250		250				4
5														5
6														6
7														7
8														8
9	20			295				125						9
10	30			296				125		125				10
11	40			297				250						11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (…eeded)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg		110

CTD consec CAST #	LATITUDE				LONGITUDE				GMT DATE (note if not)			GMT Time		Temp (°C)	WET BULB	PRESSURE	SEA STATE	WEATHER	WIND DIRN.	WIND SPD.	CLOUD (oct)	PRC	WEATHER	BOTTOM DEPTH	STA NAME
	DEG	MIN			DEG	MIN			DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)			(deg)	(kts)				(m)	
057	71	59.85	N		167	40.69	W		03	Sep	12	04	20	5.27										50m	

Sensor IDS (Initially & swap-outs)	Local Time (AKDT)								CTD MAX. DEPTH = 45
					1	2			

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	880 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= ~ 18m. – ~21m Depth of FL max = large spike @ ~30m

Weather: wind speed ~15-20 N-NE

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

Well mixed top 18m

Oceanography Station, no Water

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														1
2														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 (…eeded)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg		111

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	GMT DATE (note if not) DAY	DATE MO	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)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
058	71	30.22 N	166	56.25 W	03	Sep	12	15	06	4.7						25				46.2	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)						CTD MAX. DEPTH = 40
					1	2		

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= ~15.0 → ~22m Depth of FL max = 22m

Weather: E wind 25 kts Seas ~ 6ft

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														1
2														2
3	5			298				250						3
4	10			299				250		250		500		4
5														5
6														6
7														7
8														8
9	20			300				250		250				9
10	30			301				250						10
11	40		44	302				250						11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg		112

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)	CLOUD TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	
07	71	29.95 N	166	08.59 W	03	SEP	12	21	19	3.8			2			30				44	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)							CTD MAX. DEPTH = 38
				1	2			

SBE type and S/N	9 11 -EMA
PRESS S/N	776 - EMA
TEMP 1 &2 S/Ns	(03P2788 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430604 and 431301 - EMA
Tranemiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth=

Depth of FL max =

Weather: Wind N-NE 30kts seas 6-8ft.

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

CTD jarred after entry, deck unit alarm went off. Seas getting big, aborted 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														1
2														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.
Bristol Explorer		Arctic EIS leg		12

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 (oct)	RAIN	WEATHER	BOTTOM DEPTH	STA NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)			(deg)	(kts)				(m)	
006	21	30.05 N	166	07.60 W	05	SEP	12	15	07	13.7										441	

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

CTD MAX. DEPTH = 36

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth=

Depth of FL max =

Weather: wind ~ 20 kts seas 4-6 ft, w/ some large rollers

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

Very well mixed top 20 m.
Oceanography only station O2 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														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10														10
11	36				244									11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg		113

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	GMT DATE (note if not) DAY	GMT DATE MO	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
										(°C)											
059	71	23.03 N	165	16.15 W	04	Sep	12	19	15						313	35				410.4	

CTD MAX. DEPTH = 34

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

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= ~17m Depth of FL max = large peak @24

Weather: NE 35 kts, seas 7-4 ft

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

Well mixed upper layer,

CTD u.t side of boat

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														1
2														2
3														3
4	4		✓45	303		500	500	250						4
5														5
6														6
7														7
8														8
9	10			304				250		250		500		9
10	20			305				250		125				10
11	30			306 ✓				250						11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg		114

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	GMT DATE DAY	GMT DATE MO	GMT DATE YR	GMT Time (note if not) HR	GMT Time MIN	Temp (°C)	WET BULB (°C)	PRESSURE (mb)	RELSTAIR	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (tenth)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
061	71	25.67N	163	45.18W	06	Sep	12	05	53	11.4						20				45	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)	CTD MAX. DEPTH = 38
	12	

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	880 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 14 ⇒ 18 Depth of FL max = ~16m Huge peak @ 28

Weather: Overcast Wind N-NE 20kts, seas 5-7ft

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

New Chinese finger splice on wet end of winch, 1st cast on new splice. CTD getting blown under ship. did not bring to surface to start 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 600 ml	Comments or other samples	Nisk #
1														1
2													Blanks	2
3														3
4	5			307										4
5														5
6														6
7														7
8														8
9	10			308				250		250				9
10	20			309				250						10
11	30		4/6	310				250						11
12														12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (…ded) Arctic EIS leg	CTD FileName (No need if data is live feed)	STATION NO. 115

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO (note if not)	YR	GMT Time HR	MIN	Temp (°C)	WET BULB (°C)	PRESSURE (mb)	SEASTATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA NAME/ID
062	71	29.99	N	162	59.42	W	06	Sep	12	14	46	1.6						15				42	

Local Time (AKDT): 12

CTD MAX. DEPTH = 36

Sensor IDS (initially & swap-outs)

SBE type and S/N	9 11 -EMA
PRESS S/N	776 - EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 15m - 15h

Depth of FL max = Huge peak @ 22-15h

Weather: N ~15-20 kts Seas ~2ft, w/ 3-4ft swell

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

Oceanography Station... Snowing & Foggy

No H_2O samples

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														1
2														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 (...ded)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg		116

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO (note if not)	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)	BTL NAMEID
063	71	30.04	N	162	11.83	W	06	Sep	12	17	17	1.7						~20				45.7	
							Local Time (AKDT)		12													CTD MAX. DEPTH = 40	

Sensor IDS (Initially & swap-outs)

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 & 2 S/Ns	(03P2755 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	890 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= ~13m **Depth of FL max =** ~24m

Weather: N wind ~ 20 kts seas ~ 3-4ft some swells

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

Well mixed top layer

Not holding CTD to surface b/c swells. will [illegible] under [illegible], 5m instead.

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														1
2														2
3	5			311	✓245	500		250						3
4	10			312				250		250		500		4
5														5
6														6
7														7
8														8
9	20	18.8		313				250		250				9
10	30	27.7		314				250						10
11	40	38.6		315				250						11
12														12

*~5-10mls spilled from stacked sample

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg ______	CTD FileName (No need if data is live feed)	STATION NO. 118

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	GMT DATE DAY	MO (note if not)	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)
064	71	59.94 N	160	25.59 W	5	Sep	12			0.2						~10				39
Local Time (AKDT)							12	15	00											

CTD MAX. DEPTH = 30

Sensor IDS (initially & swap-outs)

SBE type and S/N	9 11 -EMA
PRESS S/N	778 - EMA
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	880 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth=

Depth of FL max =

Weather: wind ~ 10 kts, 8-10 ft swells.

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

Big swells, not holding CTD near surface

Nisk #	DEPTH DESIRED	Rosetta 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														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9	10			316	253			250		250		500		9
10	20			317				250		250				10
11	30		✓47	318				250	250					11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg		119

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)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	HUMIDITY %	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (min)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA NUMBER
005	71	59.89	N	159	36.6	W	07	Sep	12	18	55	10.2						15				41	

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

CTD MAX. DEPTH = 34

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2766 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= ~ 11m Depth of FL max = peak @ 23m

Weather: N - 15kts seas 6ft

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

CTD data went bad at depth. pump turned off and all sensors reading poorly.

Oceanography Station, No water

Not bringing to surface due to swells

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														1
2														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.
Bristol Explorer		Arctic EIS leg		121

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 °	SWELL DIRN. °	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (oct) °	RAIN °	WEATHER °	BOTTOM DEPTH (m)	STA. NAME/ID
066	72	00.06	N	157	59.35	W	08	Sep	12	01	07	12.2						16				66	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)					CTD MAX. DEPTH = 55m
					1	2	
SBE type and S/N	9 11 -EMA	Pycnocline Depth=	~14m - ~22m	Depth of FL max =	22m		
PRESS S/N	775 - EMA	Weather:	N - 10kts Seas ~2ft w/ 6ft swell				
TEMP 1 &2 S/Ns	(03P2788 PMEL) and (4394 EMA)	COMMENT: Difficult conditions, factors that may affect measurements or aid processing					
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)						
FLUOR S/N	WS3S-994P - EMA						
O2 (SBE43) S/N	430804 and 431301 - EMA						
Transmiss S/N	690 - EMA						
PAR S/N	SPQA-3377(log amp 0021) EMA						
O2 SBE42S/N	N/A						

Oceanography Station. No Water
Not holding at surface due to swell
1st cast on re-spliced Winch cable, continuous problem

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														1
2														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.
Bristol Explorer		Arctic EIS leg		122

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)	
06771	59	59.98	N	157	10.78	W	08	Sep	12	03	43	2.4						15				89	

Sensor IDS (initially & swap-outs) | **Local Time (AKDT)** 12 | CTD MAX. DEPTH = 84

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= ~8m - Depth of FL max = ~37m

Weather: NW wind seas ~3ft swells 6ft

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

Well mixed top 8m

Temperature spike ~34m ?

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														1
2	5			319				250					Blanks	2
3	10			320				250		250				3
4	20	19.8		321				250		250				4
5														5
6														6
7														7
8														8
9	30	28.3		322				250						9
10	40	38.1		323				250						10
11	50	47.7		324				250						11
12														12

VESSEL: Bristol Explorer | CRUISE ID: | PROJECT & [illegible] (if needed): Arctic EIS leg | CTD FileName (No need if data is live feed): | STATION NO. 123

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO (note if not)	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
068	71	29.98	N	157	28.69	W	08	SEP	12	15	00	5.2	.					15				198	

Local Time (AKDT): YR 12

CTD MAX. DEPTH = 88

Sensor IDS (Initially & swap-outs)

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 SNs	(03P2788 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430604 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= ~15m

Depth of FL max = top 20 m

Weather: U-NW 15kts Seas 2ft 4-6ft swells

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														1
2	0			325				250						2
3	10	10.8		326				250		250				3
4	20	19.8		327				250						4
5														5
6														6
7														7
8														8
9	30	29.8		328		500		250						9
10	40	40.1		329				250						10
11	50	48.8		330				250						11
12														12

Stacked [illegible] ~65 [illegible] lost ~15 ml/s GFF [illegible]

0253

VESSEL	CRUISE ID	PROJECT & LOG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg		124

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)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	CLOUD TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
							(note if not)																
069	71	29.63	N	159	03.20	W	08	Sep	12			11.9										51	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)						CTD MAX. DEPTH = 45m
	12	20	08				

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	W83S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	890 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= ~10m Depth of FL max = 22m

Weather: Seas ~ 2ft swells 4-6ft

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

Well mixed top 10m
Temp spike @ ~ 15m

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														1
2														2
3	0			331				250						3
4	10			332				250		250	250	500		4
5														5
6														6
7														7
8														8
9	20			333				250	250					9
10	30	30.5		334				250						10
11	40	40.7		335				250						11
12														12

VESSEL	CRUISE ID	PROJECT & [illegible] (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg		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)	
07	07	29.99 N	160	37.91 W	09	SEP	12	00	20	3.5										46	

Sensor IDS (initially & swap-outs)	Local Time (AKDT)						CTD MAX. DEPTH = 38
				1	2		

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= ~19m Depth of FL max = ~13m

Weather: Overcast - winds calm, seas ~2ft swells 3-6ft

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

Revisiting station 117 (Tow done here earlier when it was too rough for oceanography)

Weird temp dump top 15 m

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													Blanks	1
2														2
3														3
4	0			336				250						4
5														5
6														6
7														7
8														8
9	10			337				250		250				9
10	20			338				250						10
11	30			339				250						11
12														12

VES	CRUISE ID	PROJECT & [illegible] (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg		125

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)	
111	71	65 29.97 N	168	30.17 W	10	Sep	12	21	04	6.6						10				60	

Sensor IDS (Initially & swap-outs)	
SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Local Time (AKDT) 12

CTD MAX. DEPTH = 55

Pycnocline Depth= ~ 9m Depth of FL max = ~ 7-8m?

Weather: N-10kts Seas ~ 1ft

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

Currents pushing CTD under ship

Top 9-10m variable, strong surface currents

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														1
2	0		[illegible]	340		500	500	250						2
3	10			341				250		250		500		3
4	20			342				250						4
5														5
6														6
7														7
8														8
9	30			343				250						9
10	40			344				250						10
11	50		48	345	252			250						11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg		126

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)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) *	TYPE *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID
07	26	5 00.00	N	169	00.00	W	11	SEP	12	01	49	1.8	.					715				50	P

Sensor IDS (initially & swap-outs)		Local Time (AKDT)					CTD MAX. DEPTH = 45
SBE type and S/N	9 11 -EMA			12			
PRESS S/N	775 - EMA						
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)						
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)						
FLUOR S/N	WS3S-994P - EMA						
O2 (SBE43) S/N	430804 and 431301 - EMA						
Transmiss S/N	690 - EMA						
PAR S/N	SPQA-3377(log amp 0021) EMA						
O2 SBE42S/N	N/A						

Pycnocline Depth= Well mixed H2O column Depth of FL max = ~15m

Weather:

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

Both O2 sensors @ 90% @5m, seems low?

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														1
2														2
3	0			346				250						3
4	10			347				250		250	250			4
5														5
6														6
7														7
8														8
9	20			348				250		250				9
10	30			349				250	250					10
11	40			350				250						11
12														12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO
Bristol Explorer		Arctic EIS leg		27

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)	
073	65	01.79	N	167	55.66	W	11	SEP	12	05		7.1						10				43	

Sensor IDS (initially & swap-outs) | **Local Time (AKDT)** 12 | CTD MAX. DEPTH = 38

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2788 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= ~11m **Depth of FL max =** ~10m spike

Weather: clear skies, sunset, seas ~1ft swells ~2ft

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

Surface currents pushing CTD under ship.

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														1
2														2
3														3
4	0			351	✓255			250						4
5														5
6														6
7														7
8														8
9	10			352				250		250				9
10	20			353				250						10
11	30			354				250						11
12														12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20120874	129

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
074	64	23.91	N	165	59.79	W	12	SEP.	12	05	43	7.9		25

Sensor IDS (initially & swap-outs) | **Local Time (AKDT)** 12 | CTD MAX. DEPTH = 20m

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(3047 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-99P - EMA
O2 (SBE43) S/N	439804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377 (log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 5-18m SPIKES 6, 10, 13 **Depth of FL max =** 6-13m

Weather: SUNRISE, CALM SEAS

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

MAY NOT HAVE LET INSTRUMENTS EQUILIBRATE LONG ENOUGH.

NEAR SIEDGE ISLAND.

FIRST STATION LEG 3

Nisk #														Nisk #
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9	0		49	355				250						9
10	10			356				250		250				10
11	20			357				250						11
12														12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20120875	130

CTD consec CAST #	LATITUDE				LONGITUDE				GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN			DEG	MIN			DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
075	64	30.04	N		167	00.04	W		12	SEP	12	19	58	6.4	10	27

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

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-894P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 3-8m Depth of FL max = 14m

Weather: CLEAR, CALM SEAS 1.3 FT. SWELL

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

Nisk #													Nisk #
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9	0		49	358				250					9
10	10			354				250	250	250	250	500	10
11	20			300	249			250		250			11
12													12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3E3	2012_08076.	131

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
076	64	30.008	N	168	00.169	W	12	SEP	12	23	37	6.91	10	

Sensor IDS (initially & swap-outs)		Local Time (AKDT)						CTD MAX. DEPTH = 30
					12			

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 8 – 16m Depth of FL max = 13!!!

Weather: CLEAR SKIES, CALM SEAS.

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

HUGE EMA SPIKE 11 – 15M

VERY STEEP PYCNOCLINE FIRST METER OR TWO, THEN LESS STEEP.

Nisk #														Nisk #
1													BLANKS	1
x 2														2
x 3														3
x 4	0			361				250						4
5														5
6														6
7														7
x 8								[illegible]						8
x 9	10			362		250	250	250		250				9
x 10	20			363				250						10
x 11	30			364				250						11
12														12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	2012_08077	132

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
077	64	29.95	N	168	59.82	W	13	SEP	12	03	50	1.52	10	42m

Sensor IDS (initially & swap-outs)	Local Time (AKDT)					CTD MAX. DEPTH = 35m
			12			

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log-amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= NONE Depth of FL max = 5 - 7 m

Weather: FOGGY SEAS 3 ft.

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

VERY STRAIGHT PROFILE, WELL MIXED.

Nisk #															Nisk #
1															1
2															2
3	0			365					250						3
4	10			366					250		250				4
5															5
6															6
7															7
8															8
9	20			367					250						9
10	30			368					250						10
11	35		50	369					250						11
12															12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20120807[illegible]	183

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
078	64	[illegible].96	N	160	00.06	W	13	SEP	12	16	27	4.7	05	46

Sensor IDS (initially & swap-outs)		Local Time (AKDT)						CTD MAX. DEPTH = 40
				12				

SBE type and S/N	9-11 - EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2735 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-997P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 14 - 16 m Depth of FL max = Well mixed top 15m

Weather: Sunrise! Fog bank. Sept 1ft.

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

Standard Duplicates

Nisk #															Nisk #
1															1
x 2															2
x 3	0			370					250						3
x 4	10			371					250		250				4
5															5
6															6
7															7
8															8
x 9	20			372					250	250					9
x 10	30			373					250						10
x 11	40			374					250						11
12															12

VESSEL	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer	Arctic EIS leg 3	20120807g	134

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)	WIND SPD. (kts)	BOTTOM DEPTH (m)
079	63	59.95	N	169	59.76	W	13	SEP	12	20	33	6.25	10	33

Sensor IDS (Initially & swap-outs)	
SBE type and S/N	911 - EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2785-PMEL) and (4391-EMA)
COND 1&2 S/Ns	(304-PMEL) and (4307-EMA)
FLUOR S/N	W53S-694P - EMA
O2 (SBE43) S/N	430604 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Local Time (AKDT) 12

CTD MAX. DEPTH = 28

Pycnocline Depth= SLIGHT 22-23 m Depth of FL max = 19-21 m. (NOT MUCH OF ON)

Weather: SUN! SEAS 1-3ft.

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

STAGED DUPLICATES, SALINITY, DOC,

* TINY JELLY, CTENOPHORE? ON FILTER CANT REMOVE

Nisk #														Nisk #
1														1
x 2														2
x 3														3
x 4	0		x51	378		500	500	250						4
5														5
6														6
7														7
8														8
x 9	10			377				250		250		500		9
x 10	20			376				250*		250				10
x 11	28			375				250						11
12														12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	2012 08 080	136

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
080	63	59.93	N	168	59.82	W	14	SEP	12	01	59	3.88	10-15	35

Sensor IDS (Initially & swap-outs)		Local Time (AKDT)					CTD MAX. DEPTH = 30m
SBE type and S/N	9 11 -EMA						
PRESS S/N	775 - EMA						
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)						
COND 1&2 S/Ns	(304 PMEL) and (43073 EMA)						
FLUOR S/N	WS3S-694P - EMA						
O2 (SBE43) S/N	430804 and 431301 - EMA						
Transmiss S/N	690 - EMA						
PAR S/N	SPQA-3377(log amp 0021) EMA						
O2 SBE42S/N	N/A						

Pycnocline Depth= 13-14 m. Depth of FL max = 14m

Weather: BLUE SKIES + SUNSHINE! 2ft SEAS

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

BLANKS

*380 WAS DROPPED FROM FREEZER + LIQUIFIED. AT UNKNOWN TIME. REPLACED IN FREEZER (-80) ON 15-SEP-12 GMT.

Nisk #															Nisk #
1															1
2															2
3															3
4	0			379					250						4
5															5
6															6
7															7
8															8
9	10			380*					250		250				9
10	20			381					250						10
11	30			382					250		250				11
12															12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg BE3	2012_0808l	137

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
081	64	00.00	N	167	59.96	W	14	SEP	12	15	25	4.67		36.9
Sensor IDS (initially & swap-outs)				Local Time (AKDT)					12					CTD MAX. DEPTH = 30

SBE type and S/N	9 11 - EMA
PRESS S/N	775 - EMA
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WSS-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 12m (TINY) Depth of FL max = WELL MIXED UPPER 12m

Weather: PINK + ORANGE + DARK NO MAX

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

SALINITY, SEND DUPLICATES.

Nisk #														Nisk #
1														1
X 2														2
X 3														3
X 4	0			389					250					4
5														5
6														6
7														7
8														8
X 9	10			384					250		250			9
X 10	20			385					250	250				10
X 11	30		52	386					250		250			11
12														12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20120808Z	138

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
082	63	59.98	N	166	59.72	W	14	SEP	12	20	30	6.02	20	38
Sensor IDS (Initially & swap-outs)				Local Time (AKDT)					12					CTD MAX. DEPTH = 28.9

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2786-PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304-PMEL) and (43072 EMA)
FLUOR S/N	WS3S-894P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 15-16 m VERY SMALL. Depth of FL max = 15m

Weather: CLEAR SEAS 3-5 FT

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

STACKED DUPLICATES, POC

* TOOK FORCEPS TO FILTER, LOST ~20 m's, + 710 FILTER FELL ON TABLE.

Nisk #															Nisk #
1															1
2															2
3															3
4	0			387					250						4
5															5
6															6
7															7
8											VOA				8
9	10			388					250		250		500		9
10	20			389		500	500*		250						10
11	28			390					250		250				11
12															12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20120808 83	139

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
083	64	00.12	N	165	59.98	W	15	SEP	12	01	30	7.42	10	22
Sensor IDS (initially & swap-outs)				Local Time (AKDT)					12					CTD MAX. DEPTH = 18.7

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2788 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3373(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= Slight 11 M Depth of FL max = No Max.

Weather: Blue Skies, Patchy Clouds. Seas 3 ft.

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

Blanks.

Nisk #														Nisk #
1														1
X 2														2
X 3														3
X 4														4
5														5
6														6
7														7
8														8
X 9		0	53	393				250						9
X 10		10		392				250		250				10
X 11		17		391				250						11
12														12

VESSEL		PROJECT & LEG (If needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20120808d	140

CTD consec CAST #	LATITUDE		LONGITUDE		GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
84	63	30.02 N	168	00.33 W	15	SEP	12	16	15	6.19	2025	032

Sensor IDS (Initially & swap-outs)		Local Time (AKDT)					CTD MAX. DEPTH = 28.8
SBE type and S/N	9 11 -EMA	Pycnocline Depth= 13 - 16m			Depth of FL max = 15m		
PRESS S/N	775 - EMA	Weather: 6 ft swell. cloudy.					
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)	COMMENT: Difficult conditions, factors that may affect measurements or aid processing					
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)	UNSTACKED DUPLICATES.					
FLUOR S/N	WS3S-994P - EMA						
O2 (SBE43) S/N	430804 and 431301 - EMA						
Transmiss S/N	690 - EMA						
PAR S/N	SPQA-3377(log amp 0021) EMA						
O2 SBE42S/N	N/A						

Nisk #															Nisk #
1															1
X 2															2
X 3															3
X 4	0			396				250	250						4
5															5
6															6
7															7
8															8
X 9	10			395				250		250					9
X 10	20			396				250	250	250					10
X 11	27			397				250							11
12															12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20120885	142

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
85	63	30.04	N	167	00.08	W	16	SEP	12	00	07	5.65	20	26

Sensor IDS (Initially & swap-outs)		Local Time (AKDT)			CTD MAX. DEPTH = 22
SBE type and S/N	9 11 -EMA				
PRESS S/N	775 - EMA	Pycnocline Depth= 14 – 17 m		Depth of FL max = 9-15m	
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)	Weather: 5ft SEAS CLEAR BLUE, PATCHY CLOUDS.			
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)	COMMENT: Difficult conditions, factors that may affect measurements or aid processing			
FLUOR S/N	WS3S-894P - EMA	OXYGEN! STACKED DUPLICATES, SALINITY. 251			
O2 (SBE43) S/N	430804 and 431301 - EMA				
Transmiss S/N	890 - EMA				
PAR S/N	SPQA-3377(log amp 0021) EMA	* LAST 60 mls WOULDN'T FILTER			
O2 SBE42S/N	N/A	** LAST 47 mls WOULDN'T FILTER			

Nisk #															Nisk #
1															1
2															2
3															3
4															4
5															5
6															6
7															7
8															8
9	0			398	251				250						9
10	10			399					250		250		500		10
11	20		54	400			~~500~~ *	~~500~~ **	250						11
12							440	453							12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	2012 08 08 C0	148

CTD consec CAST #	LATITUDE				LONGITUDE				GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN			DEG	MIN			DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
86	63	30.01	N		165	59.95	W		16	SEP	12	05	06	8.05	15	24

Sensor IDS (initially & swap-outs)		Local Time (AKDT)				CTD MAX. DEPTH = 20
SBE type and S/N	9 11 -EMA			1	2	
PRESS S/N	775 - EMA					
TEMP 1 &2 S/Ns	(03F2786 PMEL) and (4394 EMA)					
COND 1&2 S/Ns	(3045 PMEL) and (3972 EMA)					
FLUOR S/N	WS3S-694P - EMA					
O2 (SBE43) S/N	43080 and 431801 - EMA					
Transmiss S/N	690 - EMA					
PAR S/N	SPQA-3377(log amp 9021) EMA					
O2 SBE42S/N	N/A					

Pycnocline Depth= 6 - 11m STEPPED Depth of FL max = 2-6m

Weather: CLEAR SKIES. 3ft SEAS.

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

BLANKS.

	Nisk #															Nisk #
	1															1
X	2															2
X	3															3
X	4															4
	5															5
	6															6
	7															7
MM	8															8
X	9	0			401					250		250				9
X	10	10			402					250		250				10
X	11	19			403					250						11
	12															12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20120887	144

CTD consec CAST #	LATITUDE				LONGITUDE				GMT DATE (note if not)			GMT Time		Temp (°C)		WIND SPD.	BOTTOM DEPTH
	DEG	MIN			DEG	MIN			DAY	MO	YR	HR	MIN	(°C)		(kts)	(m)
87	64	06.13	N		163	29.82	W		17	SEP	12	01	53	8.58		25	22

Sensor IDS (initially & swap-outs)		Local Time (AKDT)					CTD MAX. DEPTH = 18m
					1	2	

SBE type and S/N	9 11+ -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43972 EMA)
FLUOR S/N	WS3S-69P - EMA
O2 (SBE43) S/N	430894 and 431801 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 12-16 Depth of FL max = No MAX HIGHER UPPER 11m

Weather: PARTLY CLOUDY SEAS 4ft.

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

UNSTACKED DUPLICATES, SALINITY, POC,

* 17m FILTERS HAD LOTS OF SEDIMENT ON THEM.

Nisk #																Nisk #
1																1
* 2																2
* 3																3
* 4																4
5																5
6																6
7																7
8																8
* 9	0		55	406				250	250	250	[illegible]					9
* 10	10			405				250	250	250	150	500				10
* 11	17			404				250		[illegible]0						11
12																12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20120888	145

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
88	64	05.90	N	164	29.75	W	17	SEP	12	15	30	8.16	25	20

Sensor IDS (initially & swap-outs)		Local Time (AKDT)					CTD MAX. DEPTH = 16
					1	2	

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-894P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp,0121) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 14-16m? LOTS OF LOOPS Depth of FL max = No MAX

Weather: DARK + SNARLY. SEAS ~4ft.

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

UNSTACKED DUPLICATES

IT'S SNARLY TOOK SURFACE BOTTLE AT 5m

LOTS OF SEDIMENT/COLOR ON ALL FILTERS.

* FILTERED VERY SLOWLY, A) LAST 70mls WOULDNT FILTER 3) LAST 100mls WOULDNT FILTER

Nisk #															Nisk #
1															1
2															2
3															3
4															4
5															5
6															6
7															7
8															8
9	0			407					250	25^	250	250			9
10	10			408					250		250				10
11	15			409					250	250	~~250~~	~~250~~			11
12											180	150			12

VESSEL Bristol Explorer	CRUISE ID	PROJECT & LEG (if needed) Arctic EIS leg 3	CTD FileName (No need if data is live feed) 20120808	STATION NO. 146

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO (note if not)	YR	GMT Time HR	MIN	Temp (°C)					WIND SPD. (kts)		BOTTOM DEPTH (m)
89	63	45.09	N	163	29.65	W	17	SEP	12	22	13	8.7					20		15

Sensor IDS (Initially & swap-outs)

SBE type and S/N	9 11 -EMA
PRESS S/N	776 - EMA
TEMP 1 & 2 SNs	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Local Time (AKDT) 12 — CTD MAX. DEPTH = 11

Pycnocline Depth= NONE — Depth of FL max = NONE

Weather: SUN BREAK, SEAS 4-6ft, DARK BROWN WATER CAST CURMUDGEN.

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

SALINITY, ~~OXYGEN~~, POC, ~~[illegible]~~ WELL MIXED WATER COLUMN

TOO MUCH!

LOTS OF SEDIMENT!!

Nisk #													Comments	Nisk
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9														9
10	0			41		~~500~~ ~~500~~ SCRAPPED DUE TO TOO MUCH SEDIMENT.		250						10
11	10		56×	410	254×			250		~~250~~ 132mls		~~500~~ →	350ml	11
12														12

VESSEL	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer	Arctic EIS leg 3	20120890	47

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)	WIND SPD. (kts)	BOTTOM DEPTH (m)
9	0	63	45.09 N	164	29.77 W		18	SEP	12	02	57	8.18	10	16

Sensor IDS (initially & swap-outs)	Local Time (AKDT)				CTD MAX. DEPTH = 12
			1	2	

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2766 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	890 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= NONE Depth of FL max = NONE.

Weather: CLEARING UP! SEAS 3-4ft.

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

BLANKS

IF WATER STAYS VERY SILTY, USE SMALLER SAMPLE BOTTLES!!

LOTS OF SILT! 710's TAKING ESPECIALLY LONG TO FILTER IN THESE CONDITIONS.

Nisk #															Nisk #
1															1
2															2
3															3
4															4
5															5
6															6
7															7
8															8
9															9
10	0			413					285						10
11	10			412					285		225				11
12															12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20120809l	148

CTD consec CAST #	LATITUDE				LONGITUDE				GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN			DEG	MIN			DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
91	63	00.04	N		166	00.69	W		SEP	18	12	16	00	7.46	25	21

Sensor IDS (initially & swap-outs)		Local Time (AKDT)			CTD MAX. DEPTH = 16
SBE type and S/N	9 11 -EMA	Pycnocline Depth= NONE		Depth of FL max = NONE	
PRESS S/N	775 - EMA	Weather: DARK + SQUIRELLY. SEAS 3-5 ft.			
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)	COMMENT: Difficult conditions, factors that may affect measurements or aid processing			
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)	DUPLICATES, SAMINITY.			
FLUOR S/N	WS3S-994P - EMA				
O2 (SBE43) S/N	438604 and 431301 - EMA				
Transmiss S/N	690 - EMA	WATER STILL VERY SILTY.			
PAR S/N	SPQA-3377(log amp 0021) EMA				
O2 SBE42S/N	N/A				

Nisk #														Nisk #
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9	0			57*	414				125					9
10	10				415				125	125	125	125		10
11	16				416				125					11
12														12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20170809Z	149

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
92	63	00.07	N	166	59.51	W	18	SEP	17	23	24	6.61	20	26

Sensor IDS (initially & swap-outs)		Local Time (AKDT)	17			CTD MAX. DEPTH = 21
SBE type and S/N	9 11 -EMA	Pycnocline Depth= 14-16		Depth of FL max = 16-20		
PRESS S/N	775 - EMA	Weather: SEAS 6-8 ft GRAY.				
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)	COMMENT: Difficult conditions, factors that may affect measurements or aid processing				
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)	POC, STACKED				
FLUOR S/N	WS3S-894P - EMA					
O2 (SBE43) S/N	430804 and 431301 - EMA					
Transmiss S/N	690 - EMA					
PAR S/N	SPQA-3377(log amp 0021) EMA					
O2 SBE42S/N	N/A					

Nisk #															Nisk #
1															1
2															2
3															3
4															4
5															5
6															6
7															7
8															8
9	0			417		500	500	250							9
10	10			418				2550		2550		500			10
11	20			419				2550		2550					11
12															12

XXX

XXX

LOST ~25 mL IN FILTERING

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20120809 3	150

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)		WIND SPD.	BOTTOM DEPTH
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)		(kts)	(m)
093	63	00.01	N	167	44.52	W	19	SEP	12	02	05	5.15		20-25	25

Sensor IDS (initially & swap-outs)		Local Time (AKDT)						CTD MAX. DEPTH = 21
					1	2		

SBE (type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= NONE Depth of FL max = 8m (NOT much)

Weather: GRAY SEAS 4-6 ft.

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

BLANKS

Nisk #															Nisk #
1															1
X 2															2
X 3															3
X 4															4
5															5
6															6
7															7
8															8
X 9	0			420					250						9
X 10	10			421					250		250				10
X 11	20			58	422				250						11
12															12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	201208094	151

CTD consec CAST #	LATITUDE				LONGITUDE				GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN			DEG	MIN			DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
094	62	30.16	N		169	00.03	W		19	SEP	12	16	00	5.19	5	32

Sensor IDS (initially & swap-outs)		Local Time (AKDT)							CTD MAX. DEPTH = 27.4
SBE type and S/N	9 11 -EMA	Pycnocline Depth= 10-11 SHARP. 11-21 GRADUAL							Depth of FL max = HIGHER 0-11 m, 21-DEPTH NOT MUCH.
PRESS S/N	775 - EMA	Weather: SEAS 2ft. CAPTAINS MOOD IS SOUR, DEMEANOR GRUFF							
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)	COMMENT: Difficult conditions, factors that may affect measurements or aid processing							
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)	DUPLICATES							
FLUOR S/N	W83S-994P - EMA								
O2 (SBE43) S/N	430804 and 431301 - EMA								
Transmiss S/N	690 - EMA								
PAR S/N	SPQA-3377(log amp 0021) EMA								
O2 SBE42S/N	N/A	* lost 20mls in FILTERING.							

Niskin #															Niskin #
1															1
2															2
3															3
4	0			423				250	250	250	250				4
5															5
6															6
7															7
8															8
9	10			424				250		250	250				9
10	20			425				250*							10
11	27			426				250							11
12															12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20120809S	152

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)	WIND SPD. (kts)	BOTTOM DEPTH (m)
095	62	29.98	N	167	59.72	W	19	SEP	12	20	48	6.99	5	29

Sensor IDS (initially & swap-outs)		Local Time (AKDT)				CTD MAX. DEPTH = 24.7
SBE type and S/N	9 11 -EMA	Pycnocline Depth= 16 - 18			Depth of FL max = NONE.	
PRESS S/N	775 - EMA	Weather: GRAY 2ft SEAS.				
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)	COMMENT: Difficult conditions, factors that may affect measurements or aid processing				
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)	STACKED, POC, O_2, SALINITY (SURFACE)				
FLUOR S/N	WS3S-694P - EMA	(6 10m) (4 10m) (10 SURFACE)				
O2 (SBE43) S/N	430804 and 431301 - EMA					
Transmiss S/N	690 - EMA					
PAR S/N	SPQA-3377(log amp 0021) EMA					
O2 SBE42S/N	N/A					

Nisk #															Nisk #
1															1
2															2
3															3
4	0		59	427	250*			250							4
5															5
6															6
7															7
8															8
9	10			428		~~500~~ 100	~~500~~ 95	250		~~250~~ 100		500			9
10	20			429				250							10
11	24			430				250							11
12															12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20120896	153

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)	WIND SPD. (kts)	BOTTOM DEPTH (m)
096	62	30.00	N	167	00.30	W	20	SEP	12	01	51	7.94	10	35

Sensor IDS (initially & swap-outs)		Local Time (AKDT)			CTD MAX. DEPTH = 30
SBE type and S/N	9 11 -EMA	Pycnocline Depth= ~~17~~ 19 GRADUAL 17-18 STEEP. Depth of FL max = 10m			
PRESS S/N	775 - EMA	Weather: SWELL 1-2 ft. GRAY.			
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)	COMMENT: Difficult conditions, factors that may affect measurements or aid processing			
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)	BLANKS			
FLUOR S/N	WS3S-994P - EMA				
O2 (SBE43) S/N	430804 and 431301 - EMA				
Transmiss S/N	690 - EMA				
PAR S/N	SPQA-3377(log amp 0021) EMA				
O2 SBE42S/N	N/A				

Nisk #															Nisk #
1															1
2															2
3															3
4	0				434				250						4
5															5
6															6
7															7
8															8
9	10				435				250		250				9
10	20				432				250						10
11	30				431				250		~~185~~				11
12															12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20120809z	55

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
097	62	00.06	N	167	09.14	W	20	SEP	12	16	05	8.32	20	30

Sensor IDS (initially & swap-outs)		Local Time (AKDT)			CTD MAX. DEPTH = 25m
SBE type and S/N	9 11 -EMA	Pycnocline Depth= 20m tiny!		Depth of FL max =	NONE
PRESS S/N	775 - EMA	Weather: ~~SKY~~ LIGHTENING. SEAS 4ft.			
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)	COMMENT: Difficult conditions, factors that may affect measurements or aid processing			
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)	SALINITY, STANDARD DUPLICATES,			
FLUOR S/N	WS3S-994P - EMA				
O2 (SBE43) S/N	430804 and 431301 - EMA				
Transmiss S/N	690 - EMA				
PAR S/N	SPQA-3377(log amp 0021) EMA				
O2 SBE42S/N	N/A				

Nisk #														Nisk #
1														1
2														2
3														3
4	0			436				250						4
5														5
6														6
7														7
8														8
9	10			437				250	250	250	250			9
10	20			438				250						10
11	25		60x	439				250		125				11
12														12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20120809B	156

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
098	61	59.94	N	167	59.89	W	20	SEP	12	21	50	6.81	20	28

Sensor IDS (initially & swap-outs)		Local Time (AKDT)					CTD MAX. DEPTH = 23
				1	2		

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= NONE. Depth of FL max = NONE.

Weather: SEAS 4ft. GRAY.

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

STACKED DUPLICATES; POC

* LAST ~120mls WOULDNT FILTER - SEDIMENT?

** LAST ~150mls WOULDNT FILTER

Nisk #															Nisk #
1															1
2															2
3															3
4															4
5															5
6															6
7															7
8															8
9	0			435			~~500~~ 380 *	~~500~~ 350 **	250						9
10	10			440					250		155		500		10
11	20			441					250						11
12															12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	201208[redacted]	157

CTD consec CAST #	LATITUDE				LONGITUDE				GMT DATE (note if not)			GMT Time		Temp (°C)	[redacted]	WIND SPD.	BOTTOM DEPTH
	DEG	MIN			DEG	MIN			DAY	MO	YR	HR	MIN	(°C)		(kts)	(m)
09	62	00.00	N		169	00.38	W		21	SEP	12	03	25	5.86		10	38

Sensor IDS (initially & swap-outs)		Local Time (AKDT)			CTD MAX. DEPTH = 33
SBE type and S/N	9 11 -EMA	Pycnocline Depth= 31 - 33 ?		Depth of FL max = UPPER 30m	
PRESS S/N	775 - EMA	Weather: SWELL 2-4ft. CAPT'S MOOD OPTIMISTIC SKIES: PATCHY BLUE.			
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)	COMMENT: Difficult conditions, factors that may affect measurements or aid processing			
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)	SALINITY, BLANKS			
FLUOR S/N	WS3S-894P - EMA	& SURFACE			
O2 (SBE43) S/N	430804 and 431301 - EMA				
Transmiss S/N	690 - EMA				
PAR S/N	SPQA-3377(log amp 0021) EMA				
O2 SBE42S/N	N/A				

Nisk #															Nisk #
1															1
2															2
3															3
4	0		61	442					250						4
5															5
6															6
7															7
8															8
9	10			443					250		250				9
10	20			444					250						10
11	30			445					250		250				11
12															12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20120810~~00~~	158

CTD consec CAST #	LATITUDE				LONGITUDE				GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN			DEG	MIN			DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
100	60	30.13	N		169	00.23	W		21	SEP	12	16	00	6.01	10	36

Sensor IDS (initially & swap-outs)		Local Time (AKDT)					CTD MAX. DEPTH = 31
				1	2		

SBE (type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2766 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= NONE SLIGHT 21m Depth of FL max = UPPER 21m

Weather: THE MORNING STAR IS OUT. SEAS 1 Ft.

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

MISSTACKED DUPLICATES

* LOST 10mls IN FILTERING.

Nisk #																Nisk #
1																1
2																2
3																3
4	0				446				250							4
5																5
6																6
7																7
8																8
9	10				447				250			250	250			9
10	20				448				250	250						10
11	30				449				250			~~250~~ 240				11
12																12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	201208101	159

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
101	61	30.01	N	167	59.84	W	21	SEP	12	20	35	7.55	10	28
Sensor IDS (initially & swap-outs)							Local Time (AKDT)		12					CTD MAX. DEPTH = 23

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= NONE Depth of FL max = NONE

Weather: SUNNY & PARTLY CLOUDY SEAS 1-2 ft

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

SALINITY, ~~DX~~, STACKED DUPLICATES.

Nisk #															Nisk #
1															1
2															2
3															3
4															4
5															5
6															6
7															7
8															8
9	0			450					250						9
10	10			451			500	500	250		250		500		10
11	20			62 X 452		X			250						11
12															12

VESSEL	CRUISE ID	PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20120810 2	160

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)	WIRE OUT (°)	WIND DIR (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)
10 2	61	29.99 N	166	59.93 W	22	SEP	12	00	40	8.55			10	23

Sensor IDS (initially & swap-outs)		Local Time (AKDT)			CTD MAX. DEPTH = 19.3
SBE type and S/N	9 11 -EMA	Pycnocline Depth= NONE.		Depth of FL max = 12 m (blip)	
PRESS S/N	775 - EMA	Weather: PARTLY SUNNY. SEAS. 2-3 ft.			
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)	COMMENT: Difficult conditions, factors that may affect measurements or aid processing			
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)	O_2: BLANKS			
FLUOR S/N	WS3S-994P - EMA				
O2 (SBE43) S/N	430804 and 431301 - EMA				
Transmiss S/N	690 - EMA				
PAR S/N	SPQA-3377(log amp 0021) EMA				
O2 SBE42S/N	N/A				

	Niskin #															Niskin #
	1															1
X	2															2
X	3															3
X	4															4
	5															5
	6															6
	7															7
	8															8
X	9	0			453				250							9
X	10	10			454				250		250					10
X	11	18			455	X030			250							11
	12															12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	201208103	161

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
103	60	59.96	N	166	59.97	W	22	SEP	12	05	10	9.02	15	22

Sensor IDS (initially & swap-outs)		Local Time (AKDT)	12			CTD MAX. DEPTH = 18
SBE type and S/N	9 11 -EMA	Pycnocline Depth= 12 – 17 GRADUAL		Depth of FL max = 17m		
PRESS S/N	775 - EMA	Weather: SUNSET SEAS 2 ft.				
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)	COMMENT: Difficult conditions, factors that may affect measurements or aid processing				
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)	TRAINED FIRST.				
FLUOR S/N	WS3S-994P - EMA					
O2 (SBE43) S/N	430604 and 431301 - EMA					
Transmiss S/N	660 - EMA					
PAR S/N	SPQA-3377(log amp 0021) EMA	* Lost 5-10mls FILTERING.				
O2 SBE42S/N	N/A					

Nisk #														Nisk #
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9	0			456				250						9
10	10			457				250		250				10
11	17			458				250*		125				11
12														12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20120810 4	162

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)	WIND SPD. (kts)	BOTTOM DEPTH (m)
104	61	00.16	N	169	00.08	W	23	SEP	12	16	00	6.99	10	37

Sensor IDS (initially & swap-outs)		Local Time (AKDT)		CTD MAX. DEPTH = 32
SBE type and S/N	9 11 -EMA	Pycnocline Depth= NONE	Depth of FL max = NONE	
PRESS S/N	775 - EMA	Weather: PREDAWN DARK. SWELLS 2ft.		
TEMP 1 &2 S/Ns	(03P2786 PMEL) and (4394 EMA)	COMMENT: Difficult conditions, factors that may affect measurements or aid processing		
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)	UNSTACKED DUPLICATES. SALINITY? (S)43		
FLUOR S/N	WS3S-894P - EMA			
O2 (SBE43) S/N	430804 and 431301 - EMA			
Transmiss S/N	690 - EMA	>10 @ 10m TOOK LONG TIME TO FILTER.		
PAR S/N	SPQA-3377(log amp 0021) EMA			
O2 SBE42S/N	N/A			

Nisk #															Nisk #
1															1
2															2
3															3
4	0		63	462				250							4
5								?							5
6															6
7															7
8															8
9	10			461				250		250	250				9
10	20			460				250	250						10
11	30			459				250		250					11
12															12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20120810S	163

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
105	61	00.13	N	167	59.61	W	23	SEP	12	20	18	7.54	15	258

Sensor IDS (initially & swap-outs)		Local Time (AKDT)			CTD MAX. DEPTH = 23
SBE type and S/N	9 11 -EMA	Pycnocline Depth= NONE.		Depth of FL max = NONE	
PRESS S/N	775 - EMA	Weather: CLOUDY WITH A HINT OF SUNSHINE SEAS 3FT.			
TEMP 1 &2 S/Ns	(03R2786 PMEL) and (4394 EMA)	COMMENT: Difficult conditions, factors that may affect measurements or aid processing			
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)	OXYGEN, STACKED DUPLICATES., POC			
FLUOR S/N	WS3S-894P - EMA				
O2 (SBE43) S/N	430804 and 431301 - EMA				
Transmiss S/N	690 - EMA				
PAR S/N	SPQA-3377(log amp 0021) EMA				
O2 SBE42S/N	N/A	* LOST 26mls IN FILTERING.			

Nisk #															Nisk #
1															1
2															2
3															3
4															4
5															5
6															6
7															7
8															8
9	0			463	246*		500	500*	250						9
10	10			464				474	250		250		500		10
11	20			465					250						11
12															12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO
Bristol Explorer		Arctic EIS leg 3	20120810 6	164

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE	(note if not)		GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
10 6	60	29.92	N	168	00.17	W	24	SEP	12	01	20	7.29	10	30

Sensor IDS (initially & swap-outs)		Local Time (AKDT)			CTD MAX. DEPTH = 24
SBE type and S/N	9 11 -EMA				
PRESS S/N	775 - EMA	Pycnocline Depth= NONE.		Depth of FL max = NONE VERY SPIKY PROFILE.	
TEMP 1 &2 S/Ns	(03P2736-PMEL) and (4394 EMA)	Weather: SUNSHINE SEAS 2ft.			
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)	COMMENT: Difficult conditions, factors that may affect measurements or aid processing			
FLUOR S/N	WS36-994P - EMA	BLANKS + SALINITY			
O2 (SBE43) S/N	430804 and 431301 - EMA	FLUOROMETER SPIKY.			
Transmiss S/N	690 - EMA				
PAR S/N	SPQA-3377 (log amp 0021) EMA				
O2 SBE42S/N	N/A				

Nisk #															Nisk #
1															1
2															2
3															3
4	0			466				250							4
5															5
6															6
7															7
8															8
9	10			467				250		250					9
10	20			468				250							10
11	25		64	469				250		~~100~~					11
12															12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20120810Z	165

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
10	60	29.97	N	164	00.18	W	24	SEP	12	05	02	4.97	10	40

Sensor IDS (Initially & swap-outs)		Local Time (AKDT)			CTD MAX. DEPTH = 35
			1	2	

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= 20 — 25 M (GRADUAL) Depth of FL max =

Weather: SUNSET SEAS 2FT.

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

Nisk #															Nisk #
1															1
2															2
3	0			470					250						3
4	10			471					250		250				4
5															5
6															6
7															7
8															8
9	20			472					250						9
10	30			473					250		125				10
11	35			474					250						11
12															12

VESSEL Bristol Explorer	[illegible]	PROJECT & LEG (if needed) Arctic EIS leg 3	CTD FileName (No need if data is live feed) 201208108	STATION NO. 166

CTD consec CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		GMT DATE DAY	MO (note if not)	YR	GMT Time HR	MIN	Temp (°C)	[illegible]	WIND SPD. (kts)	[illegible]	BOTTOM DEPTH (m)
10 8	60	30.27	N	167	00.98	W	24	SEP	12	15	56	8.72		15		28

Local Time (AKDT) 1 2

CTD MAX. DEPTH = 23

Sensor IDS (initially & swap-outs)

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 SNs	(03P2788 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-994P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021) EMA
O2 SBE42S/N	N/A

Pycnocline Depth= NONE.

Depth of FL max = NONE

Weather: DARK, SEAS 2ft. SUNRISE ON THE HORIZON

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

SALINITY (S), UNSTACKED DUPLICATES

WATERLOGS SILTY

Nisk #	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Nisk
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9	0		85	475				250		125	125			9
10	10			476				250		125				10
11	20			477				250	~~200~~					11
12														12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20120810 9	167

CTD consec CAST #	LATITUDE				LONGITUDE				GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN			DEG	MIN			DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
109	59	59.93	N		167	59.90	W		24	SEP	12	23	34	7.41	25-30	26

Sensor IDS (initially & swap-outs)		Local Time (AKDT)			CTD MAX. DEPTH = 21
SBE type and S/N	9 11 -EMA	Pycnocline Depth= NONE		Depth of FL max = NONE	
PRESS S/N	775 - EMA	Weather: SEAS 4-6 ft GRAY.			
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)	COMMENT: Difficult conditions, factors that may affect measurements or aid processing			
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)	STACKED DUPLICATES, POC,			
FLUOR S/N	WS3S-994P - EMA	WELL MIXED WATER COLUMN!			
O2 (SBE43) S/N	430804 and 431301 - EMA				
Transmiss S/N	690 - EMA				
PAR S/N	SPQA-3377(log amp.0021) EMA				
O2 SBE42S/N	N/A	*LAST 10 mls WOULDN'T FIRE.			

Nisk #														Nisk #
1														1
2														2
3														3
4														4
5														5
6														6
7														7
8														8
9	0			478				250						9
10	10			479		500	~~500~~ 490*	250		125		500		10
11	20			480				250						11
12														12

VESSEL		PROJECT & LEG (if needed)	CTD FileName (No need if data is live feed)	STATION NO.
Bristol Explorer		Arctic EIS leg 3	20120811O	

CTD consec CAST #	LATITUDE			LONGITUDE			GMT DATE (note if not)			GMT Time		Temp (°C)	WIND SPD.	BOTTOM DEPTH
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(kts)	(m)
110	53	57.58	N	166	34.62	W	28	SEP	12	17	00	.		82

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

SBE type and S/N	9 11 -EMA
PRESS S/N	775 - EMA
TEMP 1 &2 SNs	(03P2786 PMEL) and (4394 EMA)
COND 1&2 S/Ns	(304 PMEL) and (43072 EMA)
FLUOR S/N	WS3S-694P - EMA
O2 (SBE43) S/N	430804 and 431301 - EMA
Transmiss S/N	690 - EMA
PAR S/N	SPQA-3377(log amp 0021)-EMA
O2 SBE42S/N	N/A

Pycnocline Depth= Depth of FL max =

Weather: Grey skies. clouds clearing. calm seas

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

ACOUSTIC CALIBRATION NO WATER.

Nisk #															Nisk
1															1
2															2
3															3
4															4
5															5
6															6
7															7
8															8
9															9
10															10
11															11
12															12