

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring 10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 707

CONSC CAST #: 0015638
 LATITUDE: 77.77 N
 DEGREE: 77
 MINUTE: 77
 SECOND: 00
 LONGITUDE: 16813.02 W
 DEGREE: 168
 MINUTE: 13
 SECOND: 02
 DAY: 11
 MONTH: MAY
 YEAR: 2010

TIME (GMT): 0017-1.4
 HR: 00
 MIN: 17
 SEC: 4
 DRY BULB (°C):
 WET BULB (°C):
 PRESSURE (mb): 95
 SEA STATE:
 VISIBILITY:
 WIND DIRN. (deg): 019
 WIND SPD. (kts): 22
 CLOUD (amt):
 TYPE:
 WEATHER:
 BOTTOM DEPTH (m): 110
 STA. NAME/ID: TEST

REMARKS: MAX. DEPTH = m

SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 O2 Temp Sensor No.
 FLUOR S/N
 SBE43-Oxy (prime)
 SBE43-Oxy (sec)
 Transmissometer
 PAR S/N

NIS	DEPTH	Roset.	SALT	Nut:Btl	O2-Btl:No	CHL.	Frac CHL.	DIC/ALK	DOC	O18	Urea	Part.	Sambrotto			Jen	Lomas	Moran	Harvey	Carri/ Sherr	Katrin	NIS
													Hydro Team-PMEL	Jessica	Waigarnet							
1	801		V.03																		1	
2	100																				2	
3	90																				3	
4	80																				4	
5	70																				5	
6	50																				6	
7	40																				7	
8	30																				8	
9	20																				9	
10	10																				10	
11	0																				11	
12	0																				12	

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes: Near or inside ice edge

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring'10
 Ship's CTD filename: 249xxxxx
 STATION NO.: NP14

CONSC CAST #: 5025
 DEG: 616.99 N
 LONGITUDE: 7103.08 W
 DATE: 11 MAY 10
 TIME (GMT): 1637-1:4
 PRESSURE: 93
 VISIBILITY: 33324
 WIND DIRN: 33324
 WIND SPD: 146
 BOTTOM DEPTH: 146
 STA. NAME/ID: NP14

DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN (deg)	WIND SPD (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
616.99	N	7103.08	W	11	MAY	10	1637	1:4			93		33324	33324				146	NP14

REMARKS: PROD CAST @ Process Sta

No	DEPTH DESIRED	Roset. notes	SALT	MUR.Btl	O2-Btl.No	CHL.	Frac CHL.	DIC/ALK	DOC	O18	Sambrotto		Moran		Harvey	Carrn/ Sherr	Karrn.	No.
											Prod	DON	Th					
1	20	✓																1
2	15	✓									X							2
3	15	✓									X							3
4	10	✓									X							4
5	8	✓									X							5
6	6	✓									X							6
7	4	✓	NOTE								X							7
8	0	✓	NOTE								X							8
9																		9
10																		10
11																		11
12																		12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

NOTE
 4m = surface
 Col Max 22

VESSEL		R/V Thomas G. Thompson		CRUISE ID	TN249	PROJECT & LEG	BEST/BSIERP_Spring'10		Ship's CTD filename	249xxxxx	24904252	STATION NO.	2														
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID									
60356		16.99 N		17153.07 W		11 MAY 10		18.02	1.2	93	*	*	346	28	*	*	141	NP14									
DEG MIN		DEG MIN		DAY MO YR		HR MIN		(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)										
SBE 9+		FLUOR S/N		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Senson No.		REMARKS													
PRESS SN		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Senson No.		ZOOPLAST															
PRI TEMP SN		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Senson No.																	
SEC TEMP SN		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Senson No.																	
PRI COND SN		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Senson No.																	
SEC COND SN		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Senson No.																	
NIS		Roset.		Hydro T eam-PMEL		Jessica		Weingartner		Sambrotto		Jen	Lomas	Moran	Harvey	Carrn/Sherr	Karrn	NIS									
DEPTH		notes		SALT		NUT.Btl		O2-Btl.No		CHL.		Frac CHL.		DIC/AIK		DOC		018		Urea		Part.		Prod		DON	
1		15																									
2		15																									
3		15																									
4		15																									
5		15																									
6		15																									
7		15																									
8		15																									
9		15																									
10																											
11																											
12																											

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring'10
 Ship's CTD filename: 249xxxxx
 STATION NO.: (#2) N P14

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
0045617	171	07	08	11	MAY	10	10	18	44	-0.5	92	34	283							140	N P14

REMARKS: STD CAST

SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN

FLUOR S/N
 SBE43-Oxy (prime)
 SBE43-Oxy (sec)
 Transmissometer
 PAR S/N
 O2 Temp Sensor No.

MAX. DEPTH = m

NIS	DEPTH	Roset. notes	Hydro T eam-PMEL				Jessica			Weingartner	Sambrotto			Jen	Lomas	Moran	Harvey	Carin/	Karin	NIS
			SALT	Nut.Btl	O2-Btl.No	CHL	Frac CHL	DIC/Aik	DOC	018	Urea	Part.	Prod	DON			Th	Lessard	Sherr	
1	1301		1324	11	163		1581	15A1							1					1
2	120			12											3	11				2
3	100			13											4	27				3
4	75			14											5	37				4
5	50			15			1581	15A1							6	30				5
6	40			16			1582	15A2							7					6
7	30			17			1583	15A3							8	10				7
8	20			18			1584	15A4							9					8
9	10			19			1585	15A5							10					9
10	0	133		10			1586	15A6							1003					10
11																				11
12																				12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring'10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 003

CONSC CAST #

DEG MIN DEG MIN DAY MO YR HR MIN DRY BULB (°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

0055630.63 N 17048.56 W 12 MAY 10 0551-0.9 . . . 33125 . . . 125 NPI13

REMARKS
 SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 FLUOR S/N
 SBE43-Oxy (prine)
 SBE43-Oxy (sec)
 Transmissometer
 PAR S/N
 O2 Temp Senson No.

NIS	DEPTH	Roset.	Hydro Team-PMEL				Jessica		Weigh/Buoy	Sambrotto			Jen	Lomas	Moran	Harvey	Carin/ Sherr	Katrin	NIS
			DESIRED	notes	SALT	Nur.Btl	O2-Btl.No	CHL.		Frac CHL.	DIC/AIK	DOC							
1	bottom	115	326	11				/	/	004									1
2	100			12				/	/										2
3	75			13				/	/										3
4	50			14				/	/										4
5	40			15				/	/										5
6	30			16				/	/										6
7	20			17				/	/										7
8	10			18				/	/	005									8
9	0	slight leak		19				/	/	006									9
10																			10
11																			11
12																			12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BIERP_Spring 10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 5

CONSC CAST #		LATITUDE			LONGITUDE			TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)		
06	56	03	24	N	17	18	11	W	12	M	A	Y	10	17	06					NP115

REMARKS: Shallower part of Deep Station
 0-30
 MAX DEPTH = m

NLS No.	DEPTH DESIRED	Roset. notes	SALT	Nut:BrI	O2-BrI.No	CHL.	Frac CHL.	DIC/Alk	DOC	O18	Sambrotto			Jen	Lomas	Moran	Harvey	Carri/Sherr	Katrin	
											Urea	Part.	Prod							DON
1	200	HAD LEAK X307	25																	
2	250		21		086				111	745	007									
3	200		22		220						008									
4	150		23		003						009									
5	100		24						110	712	010									
6	75		25		200															
7	50		26								011									
8	40		27						109	735	012									
9	20		28								013									
10	20		29								014									
11	10		30								015									
12	0		31						108	712	016									

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL		CRUISE ID		PROJECT & LEG		Ship's CTD filename		STATION NO.														
R/V Thomas G. Thompson		TN249		BEST/BSERP_Spring'10		249xxxxx		24900502														
CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
0075603	171	18	12	W	18	MAY	10	20	22	6.2		9.8	*	*	294	18			2784	NP115		
SBE 9+ _____ FLUOR S/N _____ SBE43-Oxy (prime) _____ SBE43-Oxy (sec) _____ SEC TEMP SN _____ Transmissometer _____ PRI COND SN _____ PAR S/N _____ SEC COND SN _____ O2 Temp Senson No. _____																						
REMARKS <i>Pump alarm rang for 4.50m about 200-250m</i>																						
MAX DEPTH = _____ m																						
NO	DEPTH	ROSET	SALT	NUTR. BIT	O2-BIT/NO	CHL.	FRAC CHL.	DIC/AIK	DOC	0.18	Urea	Part.	Prod	DON	Jen	Lomas	Moran	Harvey	Cartn/	Sherr	Katrin	NO.
1	1300	2770m								1017												1
2	2500									018												2
3	2250									019												3
4	2000									020												4
5	1750									021												5
6	1500									022												6
7	1250									023												7
8	1000									024												8
9	750									025												9
10	500									026												10
11	400																					11
12	300																					12

Niskin # 1, Major leak. O-ring bulging out of place.

Rosette Notes:

ICE LOG: Surface Ice Conditions or proximity to ice edge

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring'10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 7

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB ('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
008	56	43	170	32	13	MAY	10	11	45	0.0			99			260	13				109	MP/2
REMARKS: <i>Loose and Harvey cast</i>																						
MAX DEPTH =																						

NIS No	DEPTH	Roset. notes	SALT	Nutr. Btl	O2-Btl. No	CHL.	Frac CHL.	DIC/Alk	DOC	018	Sambrotto			Jen	Lomas	Moran	Th	Carrin/ Sherr	Katrin	NIS No	
											Urea	Part.	Prod								DON
1	36																				1
2	36																				2
3	36																				3
4	36																				4
5	36																				5
6	36																				6
7	36																				7
8	36																				8
9	36																				9
10	36																				10
11	36																				11
12	36																				12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL: R/V Thomas G. Thompson CRUISE ID: TN249 PROJECT & LEG: BEST/BSIERP_Spring'10 Ship's CTD filename: 249xxxxx 24900702 STATION NO. 7

CONSC CAST #		LATITUDE			LONGITUDE			TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
009	5643	64	N	170	34	37	W	13	M	10	16	14	0.4			00		2	05	15	100	W/P/12

SBE 9+ _____ FLUOR S/N _____
 PRESS SN _____ SBE43-Oxy (prime) _____
 PRI TEMP SN _____ SBE43-Oxy (sec) _____
 SEC TEMP SN _____ Transmissometer _____
 PRI COND SN _____ PAR S/N _____
 SEC COND SN _____ O2 Temp Sensor No. _____

REMARKS: PROD CAST

No.	DEPT	Roset.	SALT	Nur. Btl	O2-Btl No.	Hydro Team-PMEL		Jessica		Weingartner	Sambrotto			Jen	Lomas	Moran	Harvey	Carrin/ Sherr	Katrin	No.
						CHL.	Frac CHL.	DIC/Alk	DOC		018	Urea	Part.							
1	40																			1
2	40													1.5%						2
3	20													5%						3
4	15													9%						4
5	10													1%						5
6	8													5%						6
7	5													10%						7
8	0													10%						8
9	0																			9
10																				10
11																				11
12																				12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSERP_Spring10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 7

CONSC CAST # 56
 LATITUDE 56
 LONGITUDE 17034.37 W 13 MAY 10
 TIME (GMT) 17:15
 DRY BULB 0.3
 WET BULB .
 PRESSURE (mb) .
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 294
 WIND SPD. (kts) 15
 CLOUD (amt) *
 WEATHER *
 BOTTOM DEPTH (m) 110
 STA. NAME/ID NP/2

DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)								
010	56	43	43	N	17	034	37	W	13	M	A	Y	10	17	15	0.3	294	15	*	*	110	NP/2

SBE 9+ _____
 PRESS SN _____
 PRI TEMP SN _____
 SEC TEMP SN _____
 PRI COND SN _____
 SEC COND SN _____
 FLOOR S/N _____
 SBE43-Oxy (prime) _____
 SBE43-Oxy (sec) _____
 Transmissometer _____
 PAR S/N _____
 O2 Temp Sensor No. _____
 REMARKS: 700P CASI
 MAX DEPTH = 45 m

No.	DEPTH	Roset.	SALT	Nut.Btl	O2-Btl.No	Hydro Team-PMEL		Jessica		Weinpartner		Sambrotto			Len	Lomas	Moran	Harvey	Carin/Sherr	Katrin	No.
						CHL.	Frac CHL.	DIC/Alk	DOC	Urea	Part.	Prod	DON								
1	40																				1
2	40																				2
3	40																				3
4	40																				4
5	40																				5
6	40																				6
7	40																				7
8	40																				8
9	40																				9
10	40																				10
11																					11
12																					12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring'10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 7

CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID					
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*					
01	16	43	63	N	17	03	34	37	W	13	M	A	Y	10	1800	-0.1	.	.	241	15	109	AP/2

REMARKS: STANDARD CAST
 MAX DEPTH = m

No.	DEPTH	DESIRED	notes	SALT	Nur. Btl	O2-Btl. No	CHL.	Frac CHL.	DIC/Alk	DOC	O18	Urea	Part.	Prod	DON	Jen	Lomas	Moran	Harvey	Carin/	Sherr	Katrin	NIS
1	BOT	168	X331	44	45					271	X 27						POC	1					1
2	75																POC	2, 17					2
3	50				46												POC	3, 25					3
4	40				47												POC	4					4
5	30				48												POC	5					5
6	20				49												POC	6					6
7	10				50												POC	7, 37					7
8	0				51												POC	6					8
9																							9
10																							10
11																							11
12																							12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 557 0.88

Rosette Notes:

VESSEL		CRUISE ID		PROJECT & LEG		Ship Designation (I.D.)		STATION NO.														
R/V Thomas G. Thompson		TN249		BEST/BSIERP_Spring'10		TN249 TN24900801		8														
CONSC	LATITUDE	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
0125658.41	N	170	17	06	W	13	MAY	10	22	38	-0.1	-0.1	102	*	*	213	13				74	WPII
SBE 9+	FLUOR S/N	REMARKS																				
PRESS SN	SBE43-Oxy (prime)	MAX DEPTH =																				
PRI TEMP SN	SBE43-Oxy (sec)																					
SEC TEMP SN	Transmissometer																					
PRI COND SN	PAR S/N																					
SEC COND SN	O2 Temp Sensor No.																					
NIS	DEPTH	Roset.	Hydro Team	PMEL	Jessica	Wiegand	Sambrotto		Maria	Moran/Lomas	Harvey	Carin/Sherr	Moran	Karin	NIS							
No.	DESIRED	notes	SALT	Nut/Btl	O2-Btl/No	CHL	Frac CHL	DIC/AIK	DOC	O18	Urea Part.	Prod	DON	Ted	Lomas	Lessard	Sherr	Th			No.	
1	bottom	68m	333	52	144/208					30											1	
2	60			53																	2	
3	50			54																	3	
4	40			55																	4	
5	36			56																	5	
6	20			57																	6	
7	10			58																	7	
8	0		334	59																	8	
9																					9	
10																					10	
11																					11	
12																					12	

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

Mud from a core was being dumped over the side, aft about 25 ft from

where the CTD entered the water. I did not notice it until the CTD was in the water. It didn't seem like the water the CTD was in was muddy but I thought it should be noted. DN.

VESSEL R/V Thomas G. Thompson		CRUISE ID TN249		PROJECT & LEG BEST/BSIERP_Spring10		Ship Designation (I.D.) TN249		STATION NO. 9																											
CONSC CAST #		LATTITUDE		LONGITUDE		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID							
01357		17.97 N		16959.33 W		14 MAY 10		0148-0.6				102		*		190		15		*		*		112 NP 10											
DEG		MIN		DEG		MIN		DAY		MO		YR		HR		MIN		('C)		('C)		(mb)		*		* (deg)		* (kts)		* (amt)		* (m)			
SBE 9+		PRESS SN		PRI TEMP SN		SEC TEMP SN		PRI COND SN		SEC COND SN		FLUOR S/N		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Time Sensor No.		REMARKS		MAX. DEPTH =		m							
No.		DEPT#		Roset.		Hydro Team-PMEL		Jessica		Wingnut		Sambrotto		Marta		Moran/		Harvey		Cant/		Moran		Karin		No.									
1		Bottom																																	
2																																			
3																																			
4																																			
5																																			
6																																			
7																																			
8																																			
9																																			
10																																			
11																																			
12																																			

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

Cast down to bottom. ND water taken. Problems w/ altimeter size
 crowd w/ me had us bring it up quick.

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring'10
 Ship Designation (I.D.): TN249
 STATION NO.: 9

CONSC CAST #	LATITUDE		LONGITUDE		DAY	MO	YR	TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN				HR	MIN											
0145717.98	N		16959.20	W	14	MAY	10	0226	-0.5		1022				190	16			35	NP 10

REMARKS: MAX DEPTH = m

SBE 9+ _____
 PRESS SN _____
 PII TEMP SN _____
 SEC TEMP SN _____
 PII COND SN _____
 SEC COND SN _____

FLUOR S/N _____
 SBE43-Oxy (prime) _____
 SBE43-Oxy (sec) _____
 Transducer _____
 PAR S/N _____
 Q2 Temp Sensor No. _____

NIS	DEPTH	Roset. notes	Hydro Team-PMEL				Jessica				Wengertel		Sambrotto			Mania		Moran/		Harvey		Carr/		Moran		Katrin		NIS	
			SALT	Nut:Btl	O2-Btl No	CHL	Frac CHL	DIC/AIK	DOC	018	Urea	Part.	Prod	DON	Ted	Lomas	Lessard	Sherr	Th										
1	Bottom	28 m	335	60		SB1	SA1	/	/	/	/	133																	1
2	20	20		61		SB2	SA2																						2
3	20																												3
4	10			62		SB3	SA3	/	/	/	/	134																	4
5	0			63		SB3/147	SA4	/	/	/	/	135																	5
6																													6
7																													7
8																													8
9																													9
10																													10
11																													11
12																													12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes: 10% coverage Inside the ice edge ~ 5 km. Bands of ice present (100 meters or more wide)

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring'10
 Ship Designation (I.D.): TN249
 STATION NO.: 24901001

CONSC CAST #	LATITUDE		LONGITUDE		DAY	MO	YR	TIME (GMT)		DRY BULB (°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
	DEG	MIN	DEG	MIN				HR	MIN											
0155722.45	N		17009.09	W	14	MAY	10	0535	-0.2		1002			209	16				58	ZI

REMARKS: *Bottle one: top lead

SBE 9+ _____
 PRESS SN _____
 PRI TEMP SN _____
 SEC TEMP SN _____
 PRI COND SN _____
 SEC COND SN _____

FLUOR S/N _____
 SBE43-Oxy (prime) _____
 SBE43-Oxy (sec) _____
 Transmissometer _____
 PAR S/N _____
 Q2 Temp Sensor No. _____

MAX DEPTH = _____ m

NO.	DEPTH DESIRED	Reset notes	SALT	Nut.Bri	O2-Btl.No	CHL.	Frac CHL.	DIC/ALK	DOC	O18	Urea	Sambrotto			Mara	Moran/ Lomas	Harvey lessard	Carrn/ Sherr	Moran Th	Katrn	NIS
												Part.	Prod	DON							
1	Bottom	53																			1
2	50		336	44	196	SB1															2
3	40			65		SB2															3
4	30			64		SB3															4
5	20			67		SB4															5
6	10			68		SB5															6
7	0			69		SB6															7
8																					8
9																					9
10																					10
11																					11
12																					12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes: Along ice edge ~ 10% cover. Thick rafted/pressure ridged floes. (1 meter - 10 meters across)

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BIERP_Spring 10
 SHIP'S CTD filename: 249xxxxx
 STATION NO.: 12

CONSC CAST # 017
 DEG 57.33
 MIN 40
 N 17034.911
 W 14
 MAY 10
 0855-0.4
 03
 21619
 76
 E3

LATITUDE
 LONGITUDE
 TIME (GMT)
 DRY BULB (°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

FLUOR S/N
 SBE43-Oxy (prime)
 SBE43-Oxy (sec)
 Transmissometer
 PAR S/N
 O2 Temp Sensor No.
 REMARKS
 MAX. DEPTH =

NIS No.	DEPTH DESIRED	Roset. notes	Hydro Team-PMEL				Jessica			Wingartner			Sambrotto			Jen		Lomas		Moran		Harvey		Carrin/Sherr		Katrin	NIS No.
			SALT	Nut Btl	O2-Btl/NO	CHL	Frac CHL	DIC/ALK	DOC	O18	Urea	Part.	Prod	DON													
1	Bot	71	339	77																							1
2	50			78			581																				2
3	40			79			582																				3
4	30			80			583																				4
5	20			81			584																				5
6	10			82			585																				6
7	0			83		175	586																				7
8						10.7																					8
9																											9
10																											10
11																											11
12																											12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 13

CONSC CAST #		LATITUDE			LONGITUDE			TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID				
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)						
018	57	40	42	N	17	03	14	08	19	W	19	M	A	10	11	04	-0	7	03	214	19	03	77	24

REMARKS: Lessard Cast + Standard

SBE 9+ _____ FLUOR S/N _____
 PRESS SN _____ SBE43-Oxy (prime) _____
 PRI TEMP SN _____ SBE43-Oxy (sec) _____
 SEC TEMP SN _____ Transmissometer _____
 PRI COND SN _____ PAR S/N _____
 SEC COND SN _____ O2 Temp Sensor No. _____

NIS	DEPTH	Roset.	Hydro Team-PMEL				Jessica				Weinmann				Sambrotto				Jen	Lomas	Moran	Harvey	Carri/Sherr	Katrin	NIS
			DESIRED	notes	SALT	Nut:Bit	O2-Bit:No	CHL	Frac CHL	DIC/Alk	DOC	018	Urea	Part.	Prod	DON	Th	Lessard							
1	ROT		340	84	206																				1
2	50			85		SR15A1																			2
3	40			86		SR2 SA2																			3
4	30			87		SR3 SA3																			4
5	20			88		SR4 SA4																			5
6	10			89		SR5 SA5																			6
7	5			90																					7
8	5																								8
9	5																								9
10	5																								10
11	5																								11
12	0			91		SR6 SA6																			12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BIERP_Spring 10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 14

CONSC CAST #: 0195747.63N
 LATITUDE: 17035.71W
 DEGREE: 14
 MONTH: MAY
 YEAR: 10
 TIME (GMT): 1326
 DRY BULB: -0.9
 WET BULB: .
 PRESSURE: 03
 SEA STATE: *
 VISIBILITY: *
 WIND DIRN.: 175
 WIND SPD.: 12
 CLOUD (amt): *
 WEATHER: *
 BOTTOM DEPTH: 71
 STA. NAME/ID: 25

DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)							
019	57	47	63	N	17	035	71	W	14	M	A	Y	10	1326	-0.9	.	03	*	*	175	12	*	*	71	25

SEB 9+ _____
 PRESS SN _____
 PRI TEMP SN _____
 SEC TEMP SN _____
 PRI COND SN _____
 SEC COND SN _____
 O2 Temp Sensor No. _____

NIS	DEPTH	Roset. notes	SALT	Nut:Btl	O2-Btl.No	CHL.	Frac CHL.	DIC/ALK	DOC	O18	Sambrotto			Jen	Lomas	Moran	Harvey	Cartr/Sherr	Katrin	NIS
											Urea	Part.	Prod							
1	Bot	74 ✓	92																	1
2	50	✓	93			-581														2
3	40		94			-582														3
4	30		95			-583														4
5	20		96			-584														5
6	10		97			-585														6
7	0	Little Buoys	98			-585														7
8																				8
9																				9
10																				10
11																				11
12																				12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL		CRUISE ID		PROJECT & LEG		Ship's CTD filename		STATION NO.													
R/V Thomas G. Thompson		TN249		BEST/BSICRP_Spring10		249xxxxx 24901501		15-													
CONSC	LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID			
CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	* + *	(m)			
020	57	54	04	N	17	W	14	M	A	Y	10	15	12	-0	.2	.	02			80	26
SBE 9+	FLUOR S/N		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.		REMARKS								
PRESS SN	SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.		ICE nearby										
PRI TEMP SN	SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.												
SEC TEMP SN	SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.												
PRI COND SN	SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.												
SEC COND SN	SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.												
NO	DEPTH	ROSET	SALT	Nut.Bri	O2-Btl.No	CHL	Frac CHL	DIC/Alk	DOC	018	Urea	Part.	Prod	DON	Jen	Lomas	Moran	Harvey	Carrn/	Katrin	NO
	DESIRED	notes																			
1	Bot	75	99	231												POC	11T				1
2	50		100													POC	2 AT				2
3	40		101													POC	3				3
4	30		102													POC	4				4
5	20		103														5				5
6	10		104														6 ST				6
7	0		341	105													7				7
8																					8
9																					9
10																					10
11																					11
12																					12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

Ice edge on 'port' side - major strip, water behind it on starboard lots of floating chunks

MAX DEPTH = m

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring 10
 SHIP'S CTD filename: 249xxxxx
 STATION NO.: 16

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
02	15	754	17	03	02	W	14	M	A	Y	18	17	37	-1.0	01	15	610				79	27

NIS No.	DEPTH DESIRED	Roset. notes	SALT	Hydro Team-PMEL		Jessica		Weingartner		Sambrotto			Jen	Lomas	Moran	Harvey	Carrn/Sherr	Katrin	NIS No.
				NUTRI	O2-BTL No	CHL	Frac CHL	DIC/ALK	DOC	018	Urea	Part.	Prod	DON					
1	100	106	106	106	104	1745	34												1
2	107	107	107	107	104	1738													2
3	108	108	108	108	104	1727													3
4	109	109	109	109	104	1727													4
5	110	110	110	110	104	1727													5
6	111	111	111	111	104	1727													6
7	112	112	112	112	104	1727													7
8	113	113	113	113	104	1727													8

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes: Ice close to ship - fairly solid
 Small chunks floating by

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 17

CONSC CAST #: 225757.43 N
 LATITUDE: 7049.82 W
 DEPTH: 87 m
 TIME (GMT): 1908
 DRY BULB: -1.2
 WET BULB: .
 PRESSURE: 02
 SEA STATE: *
 VISIBILITY: *
 WIND DIRN.: 124
 WIND SPD.: 6
 CLOUD (amt): *
 WEATHER: *
 BOTTOM DEPTH: 87
 STA. NAME/ID: 28

REMARKS: MAX DEPTH = m

NIS No.	DEPT#	Roset.	Hydro Team-PMEL				Jessica		Wingartner	Sambrotto			Jen	Lomas	Moran	Harvey	Carriv/	Katrin	NIS No.
			SALT	Nut:Btl	O2-Btl:No	CHL.	Frac CHL.	DIC/Alk		DOC	Urea	Part.							
1	60	bt		114	243			1050	710	39									1
2	70			115				051	766										2
3	60			116															3
4	50			117															4
5	40			118				052	767										5
6	30			119															6
7	20			120				045	737										7
8	10			121															8
9	0			122				046	703	41									9
10																			10
11																			11
12																			12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes: Near ice edge less than 10% coverage of a brash ice small

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSERP_Spring'10
 STATION NO.: 18

SHIP'S CTD FENAME: 249xxxxx
 2 4 9 01801

CONSC CAST # 023
 DEG 57.56
 MIN 21
 N
 LONGITUDE DEG 171.07
 MIN 89
 W
 DAY 14
 MO MAY
 YR 2014
 HR 3
 MIN 11
 DRY BULB (°C) 10
 WET BULB (°C) 10
 PRESSURE (mb) 011
 SEA STATE * * * * *
 VISIBILITY (deg) 100
 WIND DIRN. (kts) 11
 WIND SPD. (kts) * * * * *
 CLOUD (amt) * * * * *
 WEATHER 89
 BOTTOM DEPTH (m) 29
 STA. NAME/ID

SBE 9+ FLUOR S/N
 SBE43-Oxy (prime)
 SBE43-Oxy (sec)
 SBE43-Oxy (sec)
 Transmissometer
 PAR S/N
 O2 Temp Sensor No.
 REMARKS: Bottles 1, 6, 7 had small leaks from bottom cap after the vents were checked

No	DEPT	notes	SALT	Nutr. Bit	O2-Btl/No	CHL.	Frac CHL.	DIC/Alk	DOC	O18	Urea	Sambrotto			Jen	Lomas	Moran	Harvey	Carrin/ Sherr	Katrin	No.
												Part.	Prod	DON							
1	Bottom	84 m	343	123						42											1
2	75			124																	2
3	50			125		LD1															3
4	40			126		LD2															4
5	30			127		LC3															5
6	20			128		LC4															6
7	10			129		LC5															7
8	0		344	130	173	LD6															8
9																					9
10																					10
11																					11
12																					12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 No ice present

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BIERP_Spring 10
 SHIP'S CTD filename: 249xxxxx
 STATION NO.: 20

CONSC CAST # 02557
 DEG 53.48 N
 DEG 171.31 W
 DAY 14
 MO MAY
 YR 10
 HR 23
 MIN 40
 DRY BULB 0.8
 WET BULB .
 PRESSURE 99
 SEA STATE *
 VISIBILITY *
 WIND DIRN. 08
 WIND SPD. 5
 CLOUD (amt) 14
 TYPE *
 WEATHER *
 BOTTOM DEPTH 96
 STA. NAME/ID Z111

DEPTH	ROSET.	Hydro Team-PMEL	Jessica	Wingartner	Sambrotto	Jen	Lomas	Moran	Harvey	Carin/Sherr	Katrin	Nis											
No.	DESIRED	notes	SALT	NUT.Btl	O2-Btl.No	CHL.	Frac CHL.	DIC/ALK	DOC	O18	Urea	Part.	Prod	DON									No.
1	Bottom	92m	346							45													1
2	Bottom			137																			2
3	75			138																			3
4	50			139		LD1																	4
5	40			140		2																	5
6	30			141		3																	6
7	20			Leaker after vent was cracked																	7		
8	20			142		4																	8
9	10			143		5																	9
10	10																						10
11	0			-347		144		198															11
12	0							6															12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 No ice present

REMARKS: Seifish in Transmissometer

SEB 9+ _____ FLUOR S/N _____
 PRESS SN _____ SBE43-Oxy (prime) _____
 PRI TEMP SN _____ SBE43-Oxy (sec) _____
 SEC TEMP SN _____ Transmissometer _____
 PRI COND SN _____ PAR S/N _____
 SEC COND SN _____ O2 Trip Sensor No. _____

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring10
 STATION NO.: 21

SHIP'S CTD filename: 249xxxxx
 24902101

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER TYPE	BOTTOM DEPTH (m)	STA. NAME/ID
02657	51	92	N	17	14	6	15	01	29	-0.3		99	*	*	08	10			103	Z112

REMARKS: MAX DEPTH =

FLUOR S/N
 SBE43-Oxy (prime)
 SBE43-Oxy (sec)
 SBE43-Oxy (sec)
 Transmissometer
 PAR S/N
 O2 Temp Sensor No.

NIS No	DEPTH DESIRED	Roset. notes	SALT	Nut Btl	O2-Btl.No	CHL	Frac CHL	DIC/ALK	DOC	018	Urea	Sambrotto			Jen	Lomas	Moran	Harvey	Carrin/Sherr	Katrin	NIS No
												Part	Prod	DON							
1	Bottom	95																			1
2	Bottom		348	145	218																2
3	75			146																	3
4	150			147		LD1															4
5	40			148		2															5
6	40																				6
7	30			149		3															7
8	30																				8
9	120			150		4															9
10	10			151		5															10
11	10																				11
12	0																				12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes: No ice present

All Winkler's before
 & includes this, 026,
 DNE are suspect.
 DN

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BIERP_Spring 10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 22

CONSC CAST # 02758
 DEG 02.822
 MIN 02.822
 N 17145.97
 W 15MA
 Y 09
 0328-0.9
 98
 08612
 100
 Z13

LONGITUDE
 TIME (GMT)
 DRY BULB (°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

FLUOR S/N
 SBE43-Oxy (prime)
 SBE43-Oxy (sec)
 Transmission
 PAR S/N
 O2 Trip Sensor No.

Hydro Team-PMEL
 Jessica
 Weingartner
 Sambrotto
 Jen
 Lomas
 Moran
 Harvey
 Carr/
 Sherr
 Katrin

NIS No.	DEPTH DESIRED	notes	SALT	Nut:BI	O2-BI.No	CHL.	Frac CHL.	DOC	Urea Part.	Prod	DON	Jen	Lomas	Moran	Harvey	Carr/ Sherr	Katrin	NIS No.
1	Bottom	93m		152	187/120													1
2	50			153														2
3	40			154														3
4	30			155														4
5	20			156														5
6	10			157														6
7	0			158														7
8				159														8
9																		9
10																		10
11																		11
12																		12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes: No ice present. on

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSERP_Spring10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 23

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
02858	13	50	N	17	14	5	09	05	10	0	0	98	*	*	080	07	*	*	1010	Z14

REMARKS: _____
 MAX DEPTH = _____ m

FLUOR S/N: _____
 SBE43-Oxy (prime): _____
 SBE43-Oxy (sec): _____
 Transmissometer: _____
 PAR S/N: _____
 O2 Temp Sensor No.: _____

NIS No.	DEPTH DESIRED	Roset. notes	SALT	NUT.Btl	O2-Btl.No	Hydro Team-PMEL		Jessica		Wiegarter		Sambrotto			Jen	Lomas	Moran	Harvey	Carri/Sherr	Katrin
						CHL.	Frac CHL.	DIC/Alk	DOC	Urea	Part.	Prod	DON							
1	Bottom	93m		160	069/165															
2	75			161	backwards															
3	50			162		LD1														
4	210			163		LD2														
5	30			164		LD3														
6	20			165		LD4														
7	10			166		LD5														
8	0			167	173/088	LD6														
9																				
10																				
11																				
12																				

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes: No ice present. ov

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BIERP_Spring10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 24

CONSC CAST # 030
 DEG 58
 MIN 22
 DEG 47
 MIN 17
 LONGITUDE 72
 MIN 15
 DAY 09
 MO MAY
 YR 2009
 TIME (GMT) 1021
 HR 11
 MIN 11
 DRY BULB (°C) .1
 WET BULB (°C) .
 PRESSURE (mb) 98
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 056
 WIND SPD. (kts) 13
 CLOUD (amt) *
 WEATHER *
 BOTTOM DEPTH (m) 97
 STA. NAME/ID Z15

NO	DEPTH	DESIRED	notes	SALT	NUTRBI	O2-BI/NO	CHL.	Frac CHL.	DIC/Alk	DOC	018	Urea	Part.	Prod	DON	Jen	Lomas	Moran	Harvey	Carri/Sherr	Katrin	Nis No.	
1	80T			177	145		SB1 SA1																1
2	175			178			SB2 SA2																2
3	50			179			SB3 SA3																3
4	40			180			SB4 SA4																4
5	30			181																			5
6	20			182																			6
7	15																						7
8	15																						8
9	15																						9
10	15																						10
11	15																						11
12	0																						12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

Lessard Cast

VESSEL: R/V Thomas G. Thompson CRUISE ID: TN249 PROJECT & LEG: BEST/BSIERP_Spring10 STATION NO.: 24

SHIP'S CTD filename: 249xxxxx 249024104

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB (°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
03258	14	N	71	47	72	W	15	M	09	1452	-1.5		98			49	15				102	Z15

REMARKS: ZOOPLAST
 SBE 9+ _____ FLUOR S/N _____
 PRESS SN _____ SBE43-Oxy (prime) _____
 PRI TEMP SN _____ SBE43-Oxy (sec) _____
 SEC TEMP SN _____ Transmissometer _____
 PRI COND SN _____ PAR S/N _____
 SEC COND SN _____ O2 Temp Sensor No. _____
 MAX. DEPTH = 50 m

No.	DEPTH	Roset.	SALT	NUT:BT	O2-Btl.No	CHL.	Frac CHL.	DIC/Alk	DOC	O18	Sambrotto			Jen	Lomas	Moran	Harvey	Karin/ Sherr	Katrin	No.	
											Urea	Part.	Prod								DON
1	18			X																	1
2	18																				2
3	18																				3
4	18			5																	4
5	18																				5
6	18																				6
7	18																				7
8	18																				8
9	18																				9
10	18																				10
11																					11
12																					12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSERP_Spring 10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 24

CONSC CAST # 03358
 LATITUDE 01.13 N
 LONGITUDE 7147.68 W
 DATE 15 MAY 09
 TIME (GMT) 12:15
 DRY BULB (°C) 19
 WET BULB (°C) 14
 PRESSURE (mb) 99
 SEA STATE * *
 VISIBILITY (deg) 4
 WIND DIRN. (deg) 9
 WIND SPD. (kts) 14
 CLOUD (amt) * *
 WEATHER TYPE * *
 BOTTOM DEPTH (m) 100
 STA. NAME/ID E15

DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	* * *	(deg)	(kts)	* * *	(m)
03	58	01	13	N	15	MAY	09	12	15	19	14	99	4	9	14	100

REMARKS: Prod Coret

NIS	DEPTH	Roset.	Hydro Team-PMEL				Jessica			Weingartner			Sanbroto			Jen	Lomas	Moran	Harvey	Carri/Sherr	Katrin	NIS
			DESIRED	notes	SALT	Nut.Bit	O2-Btl.No	CHL.	Frac CHL.	DIC/Alk	DOC	018	Urea	Part.	Prod							
1	60		X351?																			1
2	75																					2
3	50																					3
4	40																					4
5	25																					5
6	20	ChlMax																				6
7	13																					7
8	10																					8
9	7																					9
10	5																					10
11	2																					11
12	0																					12

ICE LOG: Surface Ice Conditions or proximity to ice edge

5711 at major ice edge many chunks floating by

Rosette Notes: 0+20 Sen

0 16
 2 13-20
 3 26m
 7

SMALL BOAT OP May 15 12:15-1:30 Local

VESSEL		R/V Thomas G. Thompson		CRUISE ID	TN249	PROJECT & LEG	BEST/BIERP - Spring 10		Simp's CTD filename	249xxxxx	249	STATION NO.															
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID									
DEG		MIN		DEG		MIN		(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)	Z15									
N		N		W		M A Y 0 9																					
SSE 9+		FLUOR S/N		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.		REMARKS		MAX. DEPTH =		m									
PRESS SN		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.		REMARKS		MAX. DEPTH =													
PRI TEMP SN		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.		REMARKS		MAX. DEPTH =													
SEC TEMP SN		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.		REMARKS		MAX. DEPTH =													
PRI COND SN		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.		REMARKS		MAX. DEPTH =													
SEC COND SN		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.		REMARKS		MAX. DEPTH =													
NIS		Roset.		Hydro Team-PMEL		Jessica		Wingartner		Sambrotto		Jen		Lomas		Moran		Harvey		Carrh/		Katrin					
DEPTH		notes		SALT		Nut:BrI		O2-BrI.No		CHL.		Frac CHL.		DIC/Alk		DOC		018		Urea		Part.		Prod		DON	
No		DESIRED		SALT		Nut:BrI		O2-BrI.No		CHL.		Frac CHL.		DIC/Alk		DOC		018		Urea		Part.		Prod		DON	
1		Swy mid		352		6		LD1		LD1		123		718		060											
2		17m		353		7		LD1		LD1		708															
3		34m bottom		354		8		LD3		LD3		757															
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BIERP_Spring 10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 25

CONSC CAST # 0345820.33 N
 LATITUDE 17159.24 W
 DAY 15
 MO MAY
 YR 2010
 HR 22
 MIN 40
 TIME (GMT) -1.1
 DRY BULB (°C)
 WET BULB (°C)
 PRESSURE (mb)
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 38
 WIND SPD. (kts) 14
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 100
 STA. NAME/ID Z16

SE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 FLUOR S/N
 SBE43-Oxy (prime)
 SBE43-Oxy (sec)
 Transmissometer
 PAR S/N
 O2 Trmp Sensor No.
 REMARKS
 MAX DEPTH = m

NIS	DEPTH	Roset.	Hydro Team-PMEL				Jessica				Weingartner				Sambrotto				Jen	Lomas	Moran	Harvey	Cariv/ Sherr	Katrin	NIS
			NO.	DESIRED	notes	SALT	Nut Btl	O2-Btl.No	CHL.	Frac CHL.	DIC/Alk	DOC	O18	Urea	Part.	Prod	DON	Urea							
1	100	95m	355	9	178/146			116/	/	54															1
2	75		356	10				117/	/																2
3	50		357	11				118/	/																3
4	40	before down cracked	358	12				119/	/																4
5	30			13				120/	/																5
6	20		359	14																					6
7	10			15																					7
8	0		360	16				121/	/	56															8
9																									9
10																									10
11																									11
12																									12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring10
 STATION NO.: 24

SHIP'S CTD filename: 249xxxxx
 24902401

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
0355816	16	97 N	7207	70 W	15 MAY 09	23.56	-1.0	-0.2			38	13			103217	7

REMARKS: _____
 MAX DEPTH = _____ m

NIS No.	DEPT#	Roset. notes	SALT	Nut.Btl	O2-Btl/No	CHL.	Frac CHL.	DIC/Alk	DOC	O18	Sambrotto			Jen	Lomas	Moran	Harvey	Cariv/ Sherr	Katrin	NIS No.
											Urea	Part.	Prod							
1	bottom	95m	-261	17				/	/	1.57										1
2	75			19				/	/											2
3	50			20				/	/											3
4	40			21				/	/											4
5	30			22				/	/											5
6	20			23				/	/											6
7	10			24				/	/											7
8	0			24				/	/											8
9																				9
10																				10
11																				11
12																				12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL		CRUISE ID		PROJECT & LEG		SHIP'S CTD FENAME		STATION NO.												
R/V Thomas G. Thompson		TN249		BEST/BSERP_Spring'10		249xxxxx		24902701												
CONSC CAST #	LATITUDE	LONGITUDE	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID						
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)		
03659	12.99N	17215.37W	16	MAY	09	01	11	11	-0.8					4014				102Z18		
SBE 9+ _____ FLUOR S/N _____ PRESS SN _____ SBE43-Oxy (prime) _____ PRI TEMP SN _____ SBE43-Oxy (sec) _____ SEC TEMP SN _____ Transmissometer _____ PRI COND SN _____ PAR S/N _____ SEC COND SN _____ O2 Temp Sensor No. _____																				
Hydro Team-PMEL Jessica Weingartner No. DESIRED notes SALT Nut.Btl O2-Btl.No. CHL. Frac CHL. DIC/AIK DOC O18 Urea Part. Prod DON Jen Lomas Moran Harvey Carin/ Sherr Katrin NIS No.																				
1	bottom	96m	362	25	227															1
2	75			26																2
3	50			27																3
4	40			28																4
5	30			29																5
6	20			30																6
7	10			31																7
8	0			32																8
9																				9
10																				10
11																				11
12																				12

REMARKS
2, 7, 6 Leadfers after Vent was cracked

ICE LOG: Surface Ice Conditions or proximity to ice edge
No ice present

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSERP_Spring'10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 28

CONSC CAST # 0375815
 LATITUDE 815.87 N
 LONGITUDE 17230.21 W
 TIME (GMT) 0259-10.8
 DRY BULB (°C) 10.8
 WET BULB (°C) .
 PRESSURE (mb) .
 SEA STATE * *
 VISIBILITY * *
 WIND DIRN. (deg) 1008
 WIND SPD. (kts) * *
 CLOUD (amt) * *
 WEATHER * *
 BOTTOM DEPTH (m) 1042
 STA. NAME/ID C1

SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 FLUOR S/N
 SBE43-Oxy (prime)
 SBE43-Oxy (sec)
 Transmissometer
 PAR S/N
 O2 Temp Sensor No.
 REMARKS: 4 - Bottom O-rings pushed out
 5 - 1 ea ker after vent cracked

NIS	DEPTH	DESIRID	notes	SALT	Nut: Btl	O2-Btl: No	CHL	Frac CHL	DIC/Alk	DOC	018	Urea	Sambrotto			Jen	Lomas	Moran	Harvey	Carrin/ Sherr	Katrin	NIS
													Part.	Prod	DON							
1	Bottom	80	100m	363	33																1	
2					34																2	
3					35																3	
4					36																4	
5					37																5	
6					38																6	
7					39																7	
8					40																8	
9					41																9	
10																					10	
11																					11	
12																					12	

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP-Spring10
 STATION NO.: 29

SHIP'S CTD filename: 249xxxxx
 24902901

CONSC CAST # 03858
 DEG 18.73 N
 LONGITUDE DEG 172.44 W
 MIN 16.84 W
 DAY 16
 MO MAY
 YR 09
 TIME (GMT) 04:31
 DRY BULB (°C) -0.9
 WET BULB (°C) .
 PRESSURE (mb) 03
 SEA STATE *
 VISIBILITY *
 WIND DIRN (deg) 005
 WIND SPD (kts) 11
 CLOUD (amt) *
 WEATHER *
 BOTTOM DEPTH (m) 107
 STA. NAME/ID ZC02

REMARKS: Risky 8,256 - Jecker when vent cracked
 MAX DEPTH = m

NIS	DEPTH	Roset.	Hydro Team-PHEL				Jessica				Wingarten				Sambrotto				Jen				Lomas				Moran				Harvey				Carrin/Sherr				NIS
			No.	DESIRED	notes	SALT	NUT.BI	O2-BI.No	CHL.	Frac CHL.	DOC	Urea	Part.	Prod	DON	Urea	Part.	Prod	DON	Urea	Part.	Prod	DON	Urea	Part.	Prod	DON	Urea	Part.	Prod	DON	Urea	Part.	Prod	DON	No.			
1	Bottom	100m	364	42																															1				
2	75			43																															2				
3	50			44																															3				
4	40			45																															4				
5	30			46																															5				
6	20			47																															6				
7	10			48																															7				
8	0			49																															8				
9																																			9				
10																																			10				
11																																			11				
12																																			12				

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL		CRUISE ID		PROJECT & LEG		Ship's CTD filename		STATION NO.																							
R/V Thomas G. Thompson		TN249		BEST/BSIERP_Spring'10		249xxxxx		24903001																							
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID			
03958		14.19 N		17257.20 W		16 MAY 09		0625-11.2		.		03		359		12		109		ZC3											
SBE 9+		DEG MIN		DEG MIN		DAY MO YR		HR MIN		('C)		('C)		(mb)		*		(deg)		(kts)		*		*		(m)					
PRESS SN				FLUOR S/N				REMARKS																							
PRI TEMP SN				SBE43-Oxy (prime)				2,68																							
SEC TEMP SN				SBE43-Oxy (sec)				Zackets when Vert is cracked																							
PRI COND SN				Transmissometer																											
SEC COND SN				PAR S/N																											
				O2 Temp Sensor No.																											
NIS		Roset.		Hydro Team-PMEL		Jessica		Weingartner		Sambrotto		Jen		Lomas		Moran		Harvey		Garin/		Katrin		NIS		No.					
No		DESIRED		notes		SALT		Nutr:Bl		O2-Btl:No		CHL		Frac CHL		DIC/Aik		DOC		Urea		Part.		Prod		DON					
1		Bottom		103m		365		50		219																					
2		75						51																							
3		50						52				LD1																			
4		40						53				LD2																			
5		30						54				LD3																			
6		20						55				LD4																			
7		10						56				LD5																			
8		0						57				LD6																			
9																															
10																															
11																															
12																															

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes: Took a dog leg South before ZC3, ~ 13 km, because of too much ice @ ZC3. No ice present @ CTD station.

VESSEL		CRUISE ID		PROJECT & LEG		Ship's CTD filename		STATION NO.																													
R/V Thomas G. Thompson		TN249		BEST/BSIERP_Spring'10		249xxxxx		24903101																													
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID							
0405809		.58 N		17315.15 W		16 MAY 09		1028-1.4		.4		.95		* * *		347		11		* * *		* * *		1142		C4											
DEG		MIN		DEG		MIN		DAY		MO		YR		HR		MN		°C		°C		(mb)		*		*		(deg)		(kts)		* * *		* * *		(m)	
SBE 9+		PRESS SN		PRI TEMP SN		SEC TEMP SN		PRI COND SN		SEC COND SN		FLUOR S/N		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.		REMARKS		MAX DEPTH =											
																								Lena and Carl													
No	DEPTH	DESIRED	notes	SALT	Nur.Btl	O2-Btl.No	CHL	Frac CHL	DIC/AIK	DOC	018	Urea	Part.	Prod	DON	Jen	Lomas	Moran	Harvey	Lessard	Sherr	Carin/	Katrin	No.													
1	Bot	75	105	966	58	F-111																		1													
2	50	40	leaker down bleeder open		60		LD1	LC1																2													
3	30	30			61		LD8	LC2																3													
4	30	30			62		LD8	LC3																4													
5	30	30																						5													
6	30	30																						6													
7	30	30																						7													
8	30	30																						8													
9	30	30																						9													
10	20	20																						10													
11	10	10																						11													
12	8	8																						12													

ICE LOG: Surface Ice Conditions or proximity to ice edge

We traveled SW away from the line to get away from a major ice belt. No wind in aft.

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring'10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 32

CONSC CAST # 044
 DEG 58
 MIN 19
 LATITUDE 50
 DEG 17
 MIN 39
 LONGITUDE 53
 DAY 16
 MO MAY
 YR 09
 TIME (GMT) 15:13
 HR 13
 MIN 12
 DRY BULB (°C) 06
 WET BULB (°C) 06
 PRESSURE (mb) 06
 SEA STATE *
 VISIBILITY *
 WIND DIRN (deg) 043
 WIND SPD (kts) 09
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 128
 STA. NAME/ID ZCST

SBE 9+ _____
 PRESS SN _____
 PRI TEMP SN _____
 SEC TEMP SN _____
 PRI COND SN _____
 SEC COND SN _____
 FLUOR S/N _____
 SBE43-Oxy (prime) _____
 SBE43-Oxy (sec) _____
 Transmissometer _____
 PAR S/N _____
 O2 Temp Sensor No. _____
 REMARKS _____
 MAX. DEPTH = _____ m

NIS	No	DEPTH	DESIRED	notes	SALT	Nut. Bri	02-Btl. No	CHL.	Frac CHL.	DIC/Alk	DOC	018	Sambrotto			Jen	Lomas	Moran	Harvey	Carin/ Sherr	Katrin	NIS
													Urea	Part.	Prod							
	1	Bot	113	X 367	66		243															1
	2	100			67		127															2
	3	75			68																	3
	4	50			69																	4
	5	40			70																	5
	6	30			71																	6
	7	20			72																	7
	8	10			73																	8
	9	0			74																	9
	10																					10
	11																					11
	12																					12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes: Notice in sight

VESSEL		CRUISE ID		PROJECT & LEG		Ship's CTD filename		STATION NO.											
R/V Thomas G. Thompson		TN249		BEST/BSIERP_Spring'10		249xxxxx 2 4 9 03301		33											
CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)	DRY BULB (°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		
	DEG	MIN	DEG	MIN														DAY	MO
042	58	09.41	N	172	03.94	W	16	MAY	05	17	30	-1.0	130	ZCZ	
SBE 9+ _____ FLUOR S/N _____ PRESS SN _____ SBE43-Oxy (prime) _____ PRI TEMP SN _____ SBE43-Oxy (sec) _____ SEC TEMP SN _____ Transmissometer _____ PRI COND SN _____ PAR S/N _____ SEC COND SN _____ O2 Temp Sensor No. _____																			
REMARKS _____ MAX DEPTH = _____ m																			
NIS	DEPTH	Roset.	Hydro Team-PMEL		Jessica		Weingartner		Sambrotto			Jen	Lomas	Moran	Harvey	Carm/	Sherr	Katr	NIS
			No	DESIR	notes	SALT	Nur. Btl	O2-Btl. No	CHL.	Frac CHL.	DIC/ALK								

ICE LOG: Surface Ice Conditions or proximity to ice edge

No Ice

3 3 CTD
 3 4
 3 5
 3 6

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSERP_Spring10
 STATION NO.: 34

SHIP'S CTD filename: 249xxxxx
 2 4 9 034 01

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID			
0435839		47	N	174	28	13	W	16	M	A	10	5	1943	-0.6			08				028	14	191	ZC7

REMARKS: 2, 4, 7 - factors after vents cracked

MAX. DEPTH = _____ m

FLUOR S/N: _____
 SBE43-Oxy (prine): _____
 SBE43-Oxy (sec): _____
 Transmissometer: _____
 PAR S/N: _____
 O2 Temp Sensor No.: _____

No.	DEPTD	notes	SALT	Nut:Btl	O2-Btl.No	CHL	Frac CHL	DIC/Alk	DOC	O18	Urea	Sambrotto			Jen	Lomas	Moran	Harvey	Carin/ Sherr	Katrin	No.
												Part.	Prod	DON							
1	Bottom	187	37.0	84	1163																1
2	175			85																	2
3	150			86																	3
4	125			87																	4
5	100			88																	5
6	75			89																	6
7	50			90																	7
8	40			91																	8
9	30			92																	9
10	20			93																	10
11	10			94																	11
12	0			95																	12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes: No ice present

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP-Spring10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 35

CONSC CAST # 0445844
 LATITUDE 49.46 N
 LONGITUDE 17454.09 W
 DATE: 16 MAY 15
 TIME (GMT) 2152-0.9
 DRY BULB (°C) 08
 WET BULB (°C) 08
 PRESSURE (mb) 01812
 SEA STATE * * *
 VISIBILITY * * *
 WIND DIRN (deg) 145
 WIND SPD (kts) ZC8
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 145
 STA. NAME/ID ZC8

SSE 9+ _____
 PRESS SN _____
 PRI TEMP SN _____
 SEC TEMP SN _____
 PRI COND SN _____
 SEC COND SN _____
 02 Temp Sensor No. _____

NIS	DEPTH	Roset.	Hydro Team-PANEL				Jessica	Wainwright	Sambrotto			Jen	Lomas	Moran	Harvey	Carrin/ Sherr	Katrin	NIS
			No.	DESIRED	notes	SALT			NUT.BRI	O2-BI.No	CHL.							
1	Bottom	141 m	371	96														1
2	125			97														2
3	100			98														3
4	75			99														4
5	50			100														5
6	40			101														6
7	30			102														7
8	20			103														8
9	10			104														9
10	0			105														10
11																		11
12																		12

REMARKS: 2.4 - Leaktis when vent was cracked

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL		R/V Thomas G. Thompson		CRUISE ID		TN249		PROJECT & LEG		BEST/BSIERP_Spring'10		Ship's CTD filename		249xxxxx		2 4 9 03601		STATION NO.		36									
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE WEATHER		BOTTOM DEPTH		STA. NAME/ID	
645		58 49.711 N		175 20.011 W		17 MAY 06		0116-11.4		.09		09		017		14		181		ZC9									
SBE 9+		FLUOR S/N		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Senson No.		REMARKS															
PRESS SN																													
PRI TEMP SN																													
SEC TEMP SN																													
PRI COND SN																													
SEC COND SN																													
NIS		Roset.		Hydro Team-PMEL		Jessica		Weingartner		Sambrotto		Jen		Lomas		Moran		Harvey		Catin/		Katrin		NIS		No.			
No		DESIRED		notes		SALT		Nur. Btl		O2 Btl. No		CHL.		Frac CHL.		DIC/Alk		DOC		018		Urea		Part.		Prod		DON	
1		Bottom		125		372		106		113																			
2		100						107																					
3		75						108																					
4		50						109				SB1																	
5		40						110				SB2																	
6		30						111				SB3																	
7		20						112				SB4																	
8		10						113				SB5																	
9		0						114				SB6																	
10																													
11																													
12																													

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

Notice @ station Some D.S. ble on the horizon.

REMARKS

skins 29 - Takers when vent cracked

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BIERP_Spring10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 37

CONSC CAST #	46	DEG	58	MIN	54	DEG	17	MIN	54	DAY	17	MO	MAY	YR	64	HR	03	MIN	18	TIME (GMT)	0318-1.4	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID

SBE 9+ _____ FLUOR S/N _____
 PRESS SN _____ SBE43-Oxy (prime) _____
 PRI TEMP SN _____ SBE43-Oxy (sec) _____
 SEC TEMP SN _____ Transmissometer _____
 PAR COND SN _____ PAR S/N _____
 SEC COND SN _____ O2 Trip Sensor No. _____
 Hydro Team-PMEL
 Jessica Weingartner
 Urea Part. Prod DON
 Jen Lomas Moran Harvey Carriv/ Sherr Katrin
 No. 1 2 3 4 5 6 7 8 9 10 11 12

No.	DESIRE	notes	SALT	NutBrt	O2-Brt.No	CHL	Frac CHL	DIC/Alk	DOC	O18	Urea Part.	Prod	DON	Jen	Lomas	Moran	Harvey	Carriv/ Sherr	Katrin	No.
1	bottom	125m	373	115																1
2	100			116																2
3	75			117																3
4	50			118																4
5	40			119																5
6	30			120																6
7	20			121																7
8	10			122																8
9	0			123																9
10																				10
11																				11
12																				12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes: No ice present

VESSEL		CRUISE ID		PROJECT & LEG		Ship's CTD filename		STATION NO.																					
R/V Thomas G. Thompson		TN249		BEST/BSIERP_Spring'10		249xxxxx		2 4 9 0309 - 04																					
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
		DEG MIN		DEG MIN		DAY MO YR		HR MIN		°C		°C		(mb)		*		(deg)		(kts)		* * *		(m)					
475900		00.00		N 176 11.29		17 MAY 10		05 16		-1.18								35815						189ZC11					
SBE 9+				FLUOR S/N																									
PRESS SN				SBE43-Oxy (prime)																									
PRI TEMP SN				SBE43-Oxy (sec)																									
SEC TEMP SN				Transmissometer																									
PRI COND SN				PAR S/N																									
SEC COND SN				O2 Temp Sensor No.																									
NIS		Roset.		Hydro Team-PMEL		Jessica		Weingartner		Sambrotto		Jen		Lomas		Moran		Harvey		Carm/		Katrin		NIS					
DEPTH		notes		SALT		Nutr:Btl		O2-Btl.No		CHL		Frac CHL		DIC/Alk		DOC		0.18		Urea		Part.		Prod		DON			
DESIRED																													
1		bottom		374		124		1220																					
2		100																											
3		75																											
4		50																											
5		40																											
6		30																											
7		20																											
8		10																											
9		0																											
10																													
11																													
12																													

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes: No ice present. Ice visible on horizon

REMARKS
8, 2 heater when vent cracked

MAX. DEPTH = m

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring'10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 39

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB (°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	
04859	19	36	75	36	17	MAY	08	09	16	-11.1			11	*		355	16		*	*		145	EB1

REMARKS: Leonard / Harvey
 Proctor Nut 2 yd

NIS No.	DEPTH DESIRED	Roset. notes	SALT	Nut. Bot	O2-Btl. No.	CHL.	Frac CHL.	DIC/AIK	DOC	O18	Sambrotto			Jen	Lomas	Moran	Harvey	Carin/ Sherr	Katrin	NIS No.
											Urea Part.	Prod	DON							
1	Bot	10m		X																1
2	Bot	10m		X																2
3	40			X/33																3
4	24			X/34																4
5																				5
6																				6
7																				7
8																				8
9																				9
10	24	Polon		X	134															10
11	0																			11
12	0																			12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes:
 Ice edge ~ 0.5m away
 Bottles 4-10 at ice edge

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSERP_Spring'10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 39

CONSC CAST # 0495919.73 N / 7576.36 W
 DEGREE MIN DEGREE MIN DAY MO YR HR MIN TIME (GMT) 10 13 22 -08.00
 DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY WIND DIRN. WIND SPD. CLOUD (amt) TYPE WEATHER BOTTOM DEPTH STA. NAME/ID
 142 TEL

No	DEPTH	DESIRED	notes	SALT	NUT. BIT	O2-BIT/NO	CHL	Frac CHL	DIC/ALK	DOC	018	Urea	Sambrotto			Jen	Lopas	Moran	Harvey	Carin/	Sherr	Katrin	NIS
													Part.	Prod	DON								
1	Bot			135																			1
2	100			136																			2
3	75			132																			3
4	50			138																			4
5	40			139																			5
6	30			145																			6
7	20			142																			7
8	10			142																			8
9	0			143																			9
10	0			143																			10
11																							11
12																							12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes: ice edge - looks substantial (dark)

Standard Cast

REMARKS: MAX DEPTH =

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring'10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 39

CONSC CAST # 0505919.72 N
 LATITUDE DEG MIN
 LONGITUDE DEG MIN
 DAY MO YR
 TIME (GMT) HR MIN
 DRY BULB (°C)
 WET BULB (°C)
 PRESSURE (mb)
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg)
 WIND SPD. (kts)
 CLOUD (amt) *
 WEATHER *
 BOTTOM DEPTH (m)
 STA. NAME/ID: TLE1

SBE 9+ FLUOR S/N
 SBE43-Oxy (prime)
 SBE43-Oxy (sec)
 SEC TEMP SN Transmissometer
 PRI COND SN PAR S/N
 SEC COND SN O2 Temp Sensor No.
 REMARKS: ZOOPLANKTON CAST
 MAX DEPTH = 20 m

MIS No.	DEPT	DESIRED	notes	Hydro T eam-PMEL				Jessica			Wingaranci			Sambrotto			Jen	Lomas	Moran	Th	Harvey		Carin/ Sherr	Karin	MIS No.
				SALT	NUT.Btl	O2-Btl No	CHL	Frac CHL	DIC/Alk	DOC	018	Urea	Part.	Prod	DON	Lessard					Sherr				
1		27.5			X/144																				1
2		27.5																							2
3		27.5																							3
4																									4
5																									5
6																									6
7																									7
8																									8
9																									9
10																									10
11																									11
12																									12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes: Some ice edge - porous flours

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BIERP-Spring'10
 Ship's CTD filename: 249039021
 STATION NO.: 39

CONSC CAST # 0571
 DEG 59.19.72 N
 LONGITUDE DEG 175.36.39 W
 DAY 17 MAY
 YR 15
 HR 56
 MIN 2.6
 PRESSURE (mb) 12
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 021
 WIND SPD. (kts) 18
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 142
 STA. NAME/ID ZF1

SBE 9+ _____
 PRESS SN _____
 PRI TEMP SN _____
 SEC TEMP SN _____
 PRI COND SN _____
 SEC COND SN _____
 02 Trip Sensor No. _____
 REMARKS: Report of lots of ice algae in nets here

NIS	DEPTH	Roset.	Hydro Team-PMEL			Jessica			Wingartner			Sambrotto			Jen	Lomas	Moran	Harvey	Carrin/	Karin	NIS
			SALT	Nut:Br	O2-BU:No	CHL.	Frac CHL.	DIC/Aik	DOC	Urea	Part.	Prod	DON	Th.							
1	36																				1
2	27	Jen																			2
3	25																				3
4	12																				4
5	9																				5
6	6																				6
7	3																				7
8	Swy																				8
9	Swy																				9
10																					10
11																					11
12																					12

Ice edge, some ponds, some big (thick) floes
 ice moving towards the ship

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring 10
 STATION NO.: 41

SHIP'S CTD filename: 249xxxxx
 24904101

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	DRY BULB (°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
05359	11	37	N	175	51	77	W	17	M	A	Y	15	*	*	354	21	*	*	*	136	AR

REMARKS: *Wiskin 2, 8 - Bottoms after casts checked*

MAX DEPTH = _____ m

NIS No.	DEPTH DESIRED	notes	SALT	Nut/Btl	O2-Btl/NO	CHL.	Frac CHL.	DIC/Alk	DOC	018	Urea	Sambrotto			Jen	Lomas	Moran	Harvey	Carrin/ Sherr	Katrin	NIS No.
												Part.	Prod	DON							
1	Bottom	131m	379	154	074	226															1
2	180			155																	2
3	75			156																	3
4	50			157																	4
5	40			158																	5
6	30			159																	6
7	20			160																	7
8	10			161																	8
9	0			162																	9
10																					10
11																					11
12																					12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes: *Ice @ station, 1-20% coverage, brush & thick rafted pieces*

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring 10
 STATION NO.: 42
 Ship's CTD filename: 249xxxxx
 24904201-054

CONSC CAST #	LATITUDE			LONGITUDE			TIME (GMT)	DRY BULB (°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											
	DEG	MIN	SEC	DEG	MIN	SEC													DAY	MO	YR	HR	MIN						
54	59	07.	36	N	17	55	58.	60	W	18	M	A	Y	10	00	14	-	1.	1	15	*	*	35	3	18	*	*	138	A3

REMARKS: _____
 MAX DEPTH = _____ m
 SBE 9+ _____
 PRESS SN _____
 SBE4-3-Oxy (prime) _____
 SBE4-3-Oxy (sec) _____
 PRI TEMP SN _____
 SEC TEMP SN _____
 Transmissometer _____
 PRI COND SN _____
 PAR S/N _____
 SEC COND SN _____
 O2 Trip Sensor No. _____

NIS	DEPTH	Roset.	SALT	Nut Btl	O2-Btl/No	CHL.	Frac CHL.	DIC/Alk	DOC	Weingartner 018	Sambrotto			Jen	Lomas	Moran Th	Harvey	Carri/ Sherr	Katrin	NIS
											Urea	Part.	Prod							
1	Bottom	130	380	163	207	136														1
2	100			164	backhands															2
3	75			165	backhands															3
4	50			166																4
5	40			167																5
6	30			168																6
7	20			169																7
8	10			170																8
9	0			171																9
10																				10
11																				11
12																				12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Ice station, mostly brash, 1-20% coverage, brash & thick roped pieces

Rosette Notes:
 Leaders: 4, 8, 9, 2 when vents cracked.

VESEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: TN249
 BEST/BSIERP_Spring'10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 43

CONSC CAST # 0555903
 LATITUDE: DEG 55, MIN 03, SEC 56 N
 LONGITUDE: DEG 176, MIN 05, SEC 39 W
 DAY 18, MO MAY, YR 10
 TIME (GMT) HR 01, MIN 59, SEC -1.4
 DRY BULB (°C) 15
 WET BULB (°C) 15
 PRESSURE (mb) 1015
 SEA STATE * * *
 VISIBILITY * * *
 WIND DIRN. (deg) 346
 WIND SPD. (kts) 21
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 134
 STA. NAME/ID A4

REMARKS: 4 - Leaker ~~right~~ right out of the water - slow
 H/S 2 - Leakers when vent cracked

NIS No.	DEPTH DESIRED	Roset. notes	SALT	Nut. Btl	O2-Btl No	Hydro Team-PMEL			Jessica			Weingartner	Sambrotto			Jen	Lomas	Moran	Harvey	Carm/Sheer	Katrin	NIS No.
						CHL.	Frac CHL.	DIC/AIK	DOC	Urea	Part.		Prod	DON								
1	Bottom	125	901	172																		1
2	100			-173																		2
3	75	Leaker		-174																		3
4	50			-175																		4
5	40			-176																		5
6	30			-177																		6
7	20			-178																		7
8	10	Leaker		-179																		8
9	0			-180																		9
10	0			-180																		10
11	0			-180																		11
12	0			-180																		12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes: Sea-ice present, brash ice 1-2% coverage

VESSEL		R/V Thomas G. Thompson		CRUISE ID		TN249		PROJECT & LEG		BEST/BSIERP_Spring'10		Ship's CTD filename		24904401-056		STATION NO.		44													
CONSC		LATTITUDE		LONGITUDE		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
CAST #		DEG MIN		DEG MIN		DAY MO YR		HR MIN		°C		°C		(mb)		*		(deg)		(kts)		* * *		* * *		(m)					
256		5859.49 N		17612.92 W		18 MAY 10		0308-1.8		.8		.8		16				34717								135 AS					
SSE 9+				FLUOR S/N				REMARKS																							
PRESS SN				SBE43-Oxy (prime)				25																							
PRI TEMP SN				SBE43-Oxy (sec)				9-leaker light out of the water - slow																							
SEC TEMP SN				Transmissometer																											
PRI COND SN				PAR S/N																											
SEC COND SN				02 Temp Sensor No.																											
NIS		Roset.		Hydro Team-PMEL		Jessica		Weingartner		Sambrotto		Jen		Lomas		Moran		Harvey		Carrin/		Katrin		NIS		No.					
NO		DESIRED notes		SALT		NUT.BRI		O2-BU.No		CHL.		Frac CHL.		DIC/ALK		DOC		O18		Urea		Part.		Prod		DON					
1		Bottom 130						1221																							
2		Bottom 130 \ 382		181																											
3		100		182																											
4		175		183																											
5		150		184																											
6		40		185																											
7		30		186																											
8		20		1																											
9		10		2																											
10		0		3																											
11		0																													
12																															

Ice Present, less than 10% coverage @ station

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring10
 STATION NO.: 45

SHIP'S CTD filename: 249xxxxx
 24904501-057

CONSC CAST # 057
 LATITUDE 51.89 N
 LONGITUDE 76.27.79 W
 DATE 18 MAY 10
 TIME (GMT) 0506-1.4
 DRY BULB (°C) 16
 WET BULB (°C) 16
 PRESSURE (mb) 1016
 SEA STATE * * *
 VISIBILITY * * *
 WIND DIRN. (deg) 347
 WIND SPD. (kts) 17
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 0127
 STA. NAME/ID 16

REMARKS: _____
 MAX. DEPTH = _____ m

NIS No.	DEPTH DESIRED	Roset. notes	SALT	NUTRI	O2-Btl.No	CHL.	Frac CHL.	DIC/ALK	DOC	O18	Sambrotto			Jen	Lomas	Moran	Harvey	Carrn/Sherr	Katrin	NIS No.
											Urea Part.	Prod	DON							
1	Bottom		383	4																1
2	700			5																2
3	75			6																3
4	50			7																4
5	40			8																5
6	30			9																6
7	20			10																7
8	10			11																8
9	0			12																9
10	0																			10
11																				11
12																				12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes: 2,4,8 hauled when cracked
 : No ice present

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring 10
 STATION NO.: 40

SHIP'S CTD filename: 249xxxxx
 24904601-058

CONSC CAST # 585843
 DEG MIN 3.98 N
 DEG MIN 17642.05 W
 DAY MO YR 18 MAY 10
 HR MIN 0635
 TIME (GMT) DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY WIND DIRN. WIND SPD. CLOUD (amt) TYPE WEATHER
 130 AT

REMARKS: 2, 3, 10, 8 - leaks after vent covered
 MAX DEPTH = m

NIS	DEPTH	ROSET	Hydro Team-PMEL			Jessica			Weingartner			Sambrotto			Jen	Lomas	Moran	Harvey	Carri/Sherr	Katrin	NIS
			DESIRED	NOTES	SALT	Nut:Btl	O2-Btl:NO	CHL	Frac CHL	DIC/ALK	DOC	Urea	Part.	Prod							
1	bottom	120		13																	1
2	100			14																	2
3	75			15																	3
4	50			16			SB1														4
5	40			17			2														5
6	30			18			3														6
7	20			19			4														7
8	10			20			5														8
9	0			21			6														9
10	0																				10
11																					11
12																					12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes: No ice present.

VESSEL		CRUISE ID		PROJECT & LEG		Ship's CTD filename		STATION NO.																							
R/V Thomas G. Thompson		TN249		BEST/BSIERP_Spring/10		249xxxxx		24904701																							
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
0595837		34N		17654.88W		18 MAY 15		0804-1.9		. . .		18		* *		* *		340/3		* *		* *		152AB							
DEG MIN		DEG MIN		DAY MO YR		HR MIN		(°C)		(°C)		(mb)		* *		* *		(deg)		(kts)		* *		* *		(m)					
1 Bolton		X386		22		143																									
2 125		'		23																											
3 100				24																											
4 75				25																											
5 50				26		5B1.																									
6 40				27		5E1																									
7 30				28		5A3																									
8 20				29		5B4																									
9 20				30		5B5																									
10 10				31		5B6																									
11 8				31		5B6																									
12 0				31		5B6																									

ICE LOG: Surface Ice Conditions or Proximity to ice edge

Rosette Notes: * these instruments not taken, taken at following cast (61)
 Peter confirmed from instrument analysis

VESSEL R/V Thomas G. Thompson
 CRUISE ID TN249
 PROJECT & LEG BEST/BSIERP_Spring10
 Ship's CTD filename 249xxxxx
 STATION NO. 49

CONSC CAST # 061
 DEG 59 MIN 54.12 N
 DEG 177 MIN 054.74 W
 DAY 19 MO MAY YR 10
 TIME (GMT) 0145
 DRY BULB -0.1
 WET BULB 0.3
 PRESSURE 1017
 SEA STATE * *
 VISIBILITY * *
 WIND DIRN. 303
 WIND SPD. 15
 CLOUD (amt) * *
 WEATHER * *
 BOTTOM DEPTH 0487M
 STA. NAME/ID 19

SBE 9+ FLUOR S/N
 SBE43-Oxy (prime)
 SBE43-Oxy (sec)
 Transmissometer
 PAR S/N
 O2 Temp Sensor No.
 REMARKS 2, 4, 8, 9 - leakers when vent cracked
 MAX. DEPTH = m

No	DESIGNED	notes	SALT	Nut. Bl	O2-Btl. No	Hydro Team-PMEL		Jessica		Wiegand		Sambrotto			Jen	Lomas	Moran	Harvey	Carin/ Sherr	Katrin	No.
						CHL.	Frac CHL.	DIC/AK	DOC	Urea	Part.	Prod	DON								
1	bottom		388	29	050										pol 1	1					1
2	350			30												217					2
3	250			31												325					3
4	150			32												437					4
5	100			33											pol 2	5					5
6	75			34											7	6					6
7	50			35											pol 3	7					7
8	40			36											5	8					8
9	30			37											4	9					9
10	20			38											3 pol 4	10					10
11	10			39											2	11					11
12	0			40	144										1	12					12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 No ice present.

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BIERP_Spring 10
 STATION NO.: 49

SHIP'S CTD filename: 249xxxxx
 CONSC CAST #: 0625954
 LATITUDE: 17854.13 N
 LONGITUDE: 75 W 19 MAY 10 0315
 TIME (GMT): 0315
 DRY BULB: 0.0 (°C)
 WET BULB: 0.0 (°C)
 PRESSURE: 18 (mb)
 SEA STATE: *
 VISIBILITY: *
 WIND DIRN: 301 (deg)
 WIND SPD: 11 (kts)
 CLOUD (amt): *
 TYPE: *
 WEATHER: *
 BOTTOM DEPTH: 4911 (m)
 STA. NAME/ID: MW 19

DEG MIN DEG MIN DAY MO YR HR MIN (°C) (°C) (mb) * * (deg) (kts) * * (m)

SEC 9+ _____ FLUOR S/N _____
 PRESS SN _____ SBE43-Oxy (prime) _____
 PRI TEMP SN _____ SBE43-Oxy (sec) _____
 SEC TEMP SN _____ Transmissometer _____
 PRI COND SN _____ PAR S/N _____
 SEC COND SN _____ O2 Trip Sensor No. _____

REMARKS: Harvey East

MAX DEPTH = _____ m

N/S	Roset.		Hydro Team-PMEL				Jessica		Weingartner		Sambrotto			Jen	Lomas	Moran	Harvey	Cariv/	Katrin	N/S No.
	DEPTH	notes	SALT	Nut:BrI	O2-Brl:NO	CHL.	Frac CHL.	DIC/Alk	DOC	O18	Urea	Part.	Prod	DON			Th	Lessard	Sherr	
1	250			41																1
2	250																			2
3	100																			3
4	100																			4
5	50																			5
6	50																			6
7	40																			7
8	40																			8
9	20			42																9
10	10																			10
11	10																			11
12	0			43																12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes: No ice present.

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 49

CONSC CAST # 0635954
 DEG MIN 03 N
 DEG MIN 17853.77 W
 DAY MO YR 19 MAY 10
 TIME (GMT) 1018
 DRY BULB (°C) 0.3
 WET BULB (°C) .
 PRESSURE (mb) 17
 WIND DIRN (deg) 267
 WIND SPD. (kts) 9
 CLOUD (amt) * * *
 TYPE WEATHER * * *
 BOTTOM DEPTH (m) 475
 STA. NAME/ID MN19

FLUOR S/N _____
 SBE43-Oxy (prime) _____
 SBE43-Oxy (sec) _____
 Transmissometer _____
 PAR S/N _____
 O2 Temp Sensor No. _____

REMARKS: *L. eadard Cast*

N/S	DEPTH	Roset.	Hydro Team-PMEL				Jessica		Waingarten	Sambrotto			Jen	Lomas	Moran	Harvey	Carrn/ Sherr	Katrin	N/S	
			No	DESIRED	notes	SALT	Nut.BI	O2-BU.No	CHL.	Frac CHL.	DIC/ALK	DOC	O18	Urea	Part.	Prod	DON			
	1	<i>5m</i>																		1
	2																			2
	3																			3
	4																			4
	5																			5
	6																			6
	7																			7
	8																			8
	9																			9
	10																			10
	11																			11
	12																			12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring 10
 Ship's CTD filename: 24904904
 STATION NO.: 49

CONSC CAST # 0645953
 LATITUDE 17853.71 N
 LONGITUDE 71 W
 DATE: 19 MAY 10
 TIME (GMT): 1501
 DRY BULB: -0.6 (°C)
 WET BULB: .17 (°C)
 PRESSURE: 1017 (mb)
 SEA STATE: *
 VISIBILITY: *
 WIND DIRN: 300 (deg)
 WIND SPD: 05 (kts)
 CLOUD (amt): *
 TYPE: *
 WEATHER: *
 BOTTOM DEPTH: 483 (m)
 STA. NAME/ID: MW19

SE 9+ _____ FLUOR S/N _____
 PRESS SN _____ SEF43-Oxy (prime) _____
 PRI TEMP SN _____ SEF43-Oxy (sec) _____
 SEC TEMP SN _____ Transmissometer _____
 PRI COND SN _____ PAR S/N _____
 SEC COND SN _____ O2 Temp Sensor No. _____

REMARKS: 200P5 CAST

MAX. DEPTH = _____ m

Nis	DEPTH	Roset.	Hydro Team-PMEL			Jessica			Weingartner			Sambrotto			Jen	Lomas	Moran	Harvey	Carrin/	Sherr	Katrin	Nis
			No	DESIRED	notes	SALT	Nut:BI	O2-BI:NO	CHL.	Frac CHL.	DI:CAIK	DOC	018	Urea								
1	18			X44																	XIV	1
2	5			X45																		2
3	5																					3
4	5																					4
5	5																					5
6	5																					6
7	5																					7
8	5																					8
9	5																					9
10	5																					10
11	5																					11
12																						12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL: R/V Thomas G. Thompson CRUISE ID: TN249 PROJECT & LEG: BEST/BSICRP_Spring10 SHIP'S CTD FIRMWARE: 24904905 STATION NO.: 49

CONSC CAST # 0655953.99 N 17853.71 W 19 MAY 10 1609-0.9-.14 32004 484 AN19

LATITUDE: DEG MIN DEG MIN DAY MO YR HR MIN TIME (GMT) DRY BULB (°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

REMARKS: Pod Cast

SBE 9+ FLUOR S/N SBE43-Oxy (prime) SBE43-Oxy (sec) Transmissometer PAR S/N 02 Temp Sensor No.

No	DEPT	Roset.	SALT	Nut.Br	O2-Btl.No	Jessica			Waingarner			Sambrotto			Lomas	Moran	Harvey	Carrn/	Katrin	No.
						CHL.	Frac CHL.	DIC/ALK	DOC	O18	Urea	Part.	Prod	DON						
1	24			46														1		1
2	18																	2		2
3	18			47														3		3
4	12			48														4		4
5	9			49														5		5
6	6			50														6		6
7	3			51														7		7
8	0			52														8		8
9	0																	9		9
10																		10		10
11																		11		11
12																		12		12

ICE LOG: Surface Ice Conditions or proximity to ice edge No ice

Rosette Notes: 0, 18

W

VESSEL R/V Thomas G. Thompson		CRUISE ID TN249		PROJECT & LEG BEST/BSIERP-Spring 10		Ship's CTD filename 249xxxxx		STATION NO. 52																													
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID							
06759		53.99 N		17926.26 W		20 MAY 10		0125-1.6		.16		16		313		7.6		2700M		W		R		0													
DEG		MIN		DEG		MIN		DAY		MO		YR		HR		MIN		(°C)		(°C)		(mb)		*		*		(deg)		(kts)		*		*		(m)	
SSE 9+		FLUOR S/N		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Trip Sensor No.		REMARKS		MAX DEPTH =		m																			

NIS	DEPTH	Roset.	SALT	Nut:BI	O2-BI:No	CHL.	Frac CHL.	DIC/AIK	DOC	O18	Sambrutto			Jen	Lomas	Moran	Harvey	Carrn/ Sherr	Katrin	NIS
											Urea	Part.	Prod							
1	300		39D	62	208										1					1
2	250			63											2					2
3	200			64	182										3					3
4	150			65											4					4
5	100			66											5					5
6	75			67	196										6					6
7	50			68											7					7
8	40			69											8					8
9	30			70											9					9
10	20			71											10					10
11	10			72											11					11
12	0			73	147										12					12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

This was to be the deep cast. Alarm going off as top was going down. At about 1000 m, decided to pull it up & fire the shallow depths. All readings appeared normal. The problem may have been a loose connection @ the termination

VESSEL	R/V Thomas G. Thompson		CRUISE ID	TN249	PROJECT & LEG	TN249	BEST/BIERP	Spring10	Ship's CTD filename	249xxxxx	24905202	STATION NO.	52												
CONSC CAST #	0685954		DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
LATTITUDE		LONGITUDE		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN		WIND SPD.		CLOUD (amt)		TYPE		WEATHER	
39 26.00 N		179 26.26 W		20 MAY 10		0325-1.2		.2		16		3399.5		2799.20											
SBE 9+		FLUOR S/N		REMARKS		34, 11 - leaks when vent cracked																			
PRESS SN		SBE43-Oxy (prime)		MAX DEPTH =		m																			
PPI TEMP SN		SBE43-Oxy (sec)																							
SEC TEMP SN		Transmissometer																							
PPI COND SN		PAR S/N																							
SEC COND SN		O2 Temp Sensor No.																							

No	DEPTH	Roset	Hydro Team-PMEL				Jessica		Wainwright		Sambrotto			Jen	Lomas	Moran	Harvey	Carrn/	Katrin	No
			SALT	Nut.Btl	O2-Btl.No	CHL.	Frac CHL	DIC/AIK	DOC	O18	Urea	Part.	Prod	DON			Th	Lessard	Sher	
1	1000		392	74	197			/	/	70					5 π					1
2	900			75											9 π					2
3	750			76	175			/	/	72					10 π					3
4	500			77				/	/						11					4
5	400			78	107			/	/						12					5
6	300							/	/											6
7	200							/	/	73										7
8	150																			8
9	100									74										9
10	50																			10
11	10									75										11
12	0									76										12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

No ice present
 Problems again w/ an abern. Brought CTD back to surface. Appears the problem may have been loose dummy plugs or other plugs on the CTD unit.

VESSEL		CRUISE ID		PROJECT & LEG		SHIP'S CTD filename		STATION NO.																							
R/V Thomas G. Thompson		TN249		BEST/BSIERP_Spring'10		249xxxxx		24905203																							
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
0695953		99.99 N		79.26.25 W		20 MAY 10		0603-1.0		.0		.0		16		345		7.7		2700		M/N		20							
SBE 9+		FLUOR S/N		REMARKS		MAX. DEPTH =																									
PRESS SN		SBE43-Oxy (prime)																													
PRI TEMP SN		SBE43-Oxy (sec)																													
SEC TEMP SN		Transmissometer																													
PRI COND SN		PAR S/N																													
SEC COND SN		O2 Temp Sensor No.																													
NIS		Roset.		Hydro Team-PMEL		Jessica		Weingartner		Sambrotto		Jen		Lomas		Moran		Harvey		Carin/		Karin		NIS							
No.	DEPTH	notes	SALT	Nut:Br	O2-Btl.No	CHL.	Frac CHL.	DIC/AIK	DOC	O18	Urea	Part.	Prod	DON										No.							
1	bottom	2675-Y1	-79	231				617	1	77													1								
2	2500		-80	-126						79													2								
3	2250		-81	-058																			3								
4	2000		-82	-173				613	1	79													4								
5	1750		-83	-206																			5								
6	1500		-84	-235				612	1	80													6								
7	1250		-85	-187																			7								
8	1000																						8								
9	750																						9								
10																							10								
11																							11								
12																							12								

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

Success to the bottom! No alarms.

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BIERP-Spring10
 STATION NO.: 53

SHIP'S CTD filename: 249xxxxx
 24905301

CONSC CAST #		LATITUDE			LONGITUDE			TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH	STA. NAME/ID										
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)												
070	59	46.	90	N	17	8	41.	60	W	20	M	A	Y	10	11	27	-0.	5			16			336	03				288	EV2

REMARKS: Leonard Cast
 MAX DEPTH = 100 m

SBE 9+ _____ FLUOR S/N _____
 PRESS SN _____ SBE43-Oxy (prime) _____
 PRT TEMP SN _____ SBE43-Oxy (sec) _____
 SEC TEMP SN _____ Transmissometer _____
 PAR COND SN _____ PAR S/N _____
 SEC COND SN _____ 02 Trip Sensor No. _____

NIS	DEPTH	Roset.	Hydro Team-PMEL				Jessica				Wingartner				Sambrotto			Jen	Lomas	Moran	Harvey	Carrin/	Katrin	NIS	
			No	DESIRED	notes	SALT	Nut:BTI	O2-BTI.No	CHL.	Frac CHL.	DIC/Alk	DOC	O18	Urea	Part.	Prod	DON			Th	Lessard	Sherr			No.
	1	14																							1
	2	14																							2
	3	14																							3
	4	14																							4
	5	14																							5
	6																								6
	7																								7
	8																								8
	9																								9
	10																								10
	11																								11
	12																								12

ICE LOG: Surface Ice Conditions or proximity to ice edge
Shear Stations - no ice

Rosette Notes:



VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP-Spring10
 STATION NO.: 55

SHIP'S CTD FILENAME: 249xxxxx
 DATE: 24 9 05501

CONSC CAST # 07150
 DEG 12.37 N
 LONGITUDE 17415.00 W
 DAY 21
 MO MAY
 YR 10
 TIME (GMT) 0630
 DRY BULB 10.4
 WET BULB
 PRESSURE 17
 SEA STATE
 VISIBILITY
 WIND DIRN. 336
 WIND SPD. 17
 CLOUD (amt)
 TYPE
 WEATHER
 BOTTOM DEPTH 454m
 STA. NAME/ID 1115

REMARKS: CTD after Sediment trap deploy
 799 - leaked out of the water
 4+8 - leakers after valve cracked

NIS	DEPTH	Roset.	Hydro Team-PMEL				Jessica	Wainwright	Sambrotto			Jen	Lomas	Moran	Harvey	Carrin/Shear	Karin	NIS
			NO. DESIRED	notes	SALT	Nut:BrI			O2-BU:No	CHL.	Frac CHL.							
1	Bottom	445-74	-86	-069														1
2	350		-87															2
3	250		-88															3
4	150		-89															4
5	100		-90															5
6	75		-91															6
7	50		-92															7
8	40		-93															8
9	30		-94															9
10	20		-95															10
11	10		-96															11
12	0		-97															12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BIERP_Spring10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 55

CONSC CAST # 07258
 DEG 12.23 N
 DEG 17414.09 W
 DAY 21
 MO MAY
 YR 10
 HR 1009
 MIN 1.0
 PRESSURE (mb) 17
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 336
 WIND SPD. (kts) 17
 CLOUD (amt) *
 TYPE WEATHER *
 BOTTOM DEPTH (m) 368
 STA. NAME/ID NZ11.5

LONGITUDE
 TIME (GMT)
 DRY BULB (°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

REMARKS
 Lead and Cast
 Head of Tom Chung Canyon
 MAX DEPTH = 100 m

SEC 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 O2 Temp Sensor No.

NIS	DEPTH	Roset. notes	Hydro Team-PMEL				Jessica				Wingartner				Sambrotto				Jen				Lomas				Moran				Harvey				Carrn/				Katrin			
			No	DESIRED	SALT	Nut:Btl	O2-Btl.No	CHL	Frac CHL	DIC/Alk	DOC	O18	Urea	Part.	Prod	DON																										No.
1	108			98																																		1				
2	50			99																																		2				
3	40			100																																		3				
4	30			101																																		4				
5	20			102																																		5				
6	9			103																																		6				
7	9																																					7				
8	9																																					8				
9	9																																					9				
10	9																																					10				
11	0			104																																		11				
12																																						12				

ICE LOG: Surface Ice Conditions or proximity to ice edge
 NO ICE

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring10
 STATION NO.: 55

Ship's CTD filename: 249xxxxx
 24905503

CONSC CAST #		LATITUDE			LONGITUDE			TIME (GMT)		DRY BULB	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	58	17	25	N	17	9	14	15	W	21	M	A	Y	10	14	45	0	5	17	334	17	361	NE/11.5
REMARKS: ZOOFS MAX. DEPTH =																							

No.	DEPT#	DESIRED notes	SALT	Nut. BH	O2-BU.No	CHL.	Frac CHL.	DIC/ALK	DOC	O18	Urea	Sambrotto			Jen	Lomas	Moran	Harvey	Carrn/	Sher	Katrln	No.
												Part.	Prod	DON								
1	25																					1
2	25																					2
3	25																					3
4	25																					4
5	25																					5
6	25																					6
7	25																					7
8	25																					8
9																						9
10																						10
11																						11
12																						12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring'10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 52

CONSC CAST #
 DEG: 075
 MIN: 59
 LAT: 76 N
 DEG: 174
 MIN: 50
 LONG: 69 W
 DAY: 21
 MO: MAY
 YR: 10
 TIME (GMT): 12:25
 DRY BULB: 00
 WET BULB: 719
 PRESSURE: 35017
 SEA STATE: *
 VISIBILITY: *
 WIND DIRN: 350
 WIND SPD: 17
 CLOUD (amt): *
 WEATHER TYPE: *
 BOTTOM DEPTH: 3014
 STA. NAME/ID: P14-3

SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 O2 Temp Sensor No.
 REMARKS: WCE Station

NIS	DEPTH	Reset notes	SALT	NUT.BRI	O2-BRI.NO	Jessica			Sambrotto			Jen	Lomas	Moran	Harvey	Cairn/	Karin	NIS
						CHL.	Frac CHL.	DIC/AIK	DOC	Urea	Part.							
1	Bottom		~113	~165			/	/					1					1
2	2750		~114				/	/					2 ft					2
3	2500		~115	~172			/	/					3 ft					3
4	2250		~116				/	/										4
5	2000		~117	~088			/	/					4 ft					5
6	1750		~118	~080			/	/										6
7	1500		~119				/	/					4 ft					7
8	1250		~120				/	/										8
9	1000		~121				/	/					5					9
10	800		~122	~222			/	/										10
11	500		~123				/	/					6					11
12	300		~124				/	/										12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

Leakage: 9+2 without being cracked
 11, 12, 4, 7, 8 leaked when cracked

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring'10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 56

CONSC CAST # 0765759
 DEG 57.59
 MIN 75
 N 17450.69
 W 22
 DAY 22
 MO MAY
 YR 10
 HR 00
 MIN 21
 DRY BULB (°C) -0.4
 WET BULB (°C) .
 PRESSURE (mb) 19
 SEA STATE *
 VISIBILITY *
 WIND DIRN (deg) 356
 WIND SPD (kts) 16
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 3014
 STA. NAME/ID P14-3

REMARKS: SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 FLUOR S/N
 SBE43-Oxy (prime)
 SBE43-Oxy (sec)
 Transmissometer
 PAR S/N
 O2 Trng Sensor No.

NIS	DEPTH	ROSETT	Hydro Team-PMEL				Jessica			Weingartner			Sambrotto			Jen	Lomas	Moran	Harvey	Carlin/ Sherr	Karin	NIS
			No	DESIRED	notes	SALT	Nut Btl	O2-Btl/NO	CHL	Fac CHL	DIC/AIK	DOC	O18	Urea	Part.							
1	300				125				/													1
2	250				126				/													2
3	225				127				/													3
4	200				128				/													4
5	175				129				/													5
6	150				130				/													6
7	125				131				/													7
8	100				132				/													8
9	75				133				/													9
10	50				134				/													10
11	25				135				/													11
12	0				136				/													12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:
 12, 9, 2 labels w/o cracking
 8, 11, 4 leaked after cracking vent

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BIERP_Spring 10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 58

CONSC CAST # 0785817.95N
 LATITUDE 17354.49
 DEGREE MIN DEGREE MIN DAY MO YR HR MIN
 07 27 - 1.9
 TIME (GMT) DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY WIND DIRN. WIND SPD. CLOUD (amt) TYPE WEATHER
 01614
 BOTTOM DEPTH STA. NAME/ID
 122M 21

FLUOR S/N
 SBE43-Oxy (prime)
 SBE43-Oxy (sec)
 Transmissometer
 PAR S/N
 O2 Trip Sensor No.

NIS	DEPTH	Rosette notes	SALT	Nutrit	O2-Btl.No	CHL.	Frac CHL.	DIC/ALK	DOC	O18	Samprotto			Jen	Lomas	Moran	Harvey	Carrn/Sherr	Katrn	NIS No.
											Urea Part.	Prod	DON							
1	bottom			-149	167															1
2	100			-150																2
3	75			-151																3
4	50			-152		SB1														4
5	40			-153		2														5
6	30			-154		3														6
7	20			-155		4														7
8	10			-156		5														8
9	0			-157		6														9
10																				10
11																				11
12																				12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

9 buckets before casting
 4, 5, 6, 7, 8 buckets when cracked

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSERP_Spring'10
 STATION NO.: 59

SHIP'S CTD filename: 249xxxxx
 24905901

CONSC CAST # 47957
 LATITUDE 58.411 N
 LONGITUDE 173229.69 W
 DATE: 22 MAY 10
 TIME (GMT): 11:21
 DRY BULB (°C): 18
 WET BULB (°C): 13
 PRESSURE (mb): 1019
 SEA STATE: 13
 VISIBILITY (deg): 11.9
 WIND DIRN. (deg): 13
 WIND SPD. (kts): 13
 CLOUD (amt): 11.9
 WEATHER: EV3
 BOTTOM DEPTH (m): 11.9
 STA. NAME/ID: EV3

DEG MIN DEG MIN DAY MO YR HR MIN
 58 411 N 173229.69 W 22 MAY 10 11 21
 18 13 1019 13 11.9 13 11.9

REMARKS: Leonard Cast
 MAX DEPTH = m

NIS	DEPTH	Roset.	Hydro Team-PMEL				Jessica				Weingartner				Sambrotto				NIS				
			No	DESIR	notes	SALT	NUT.Btl	O2-Btl.No	CHL	Frac CHL	DIC/Alk	DOC	018	Urea	Part.	Prod	DON	Jen		Lomas	Moran	Harvey	Carin/Sherr
1	1																						1
2	27																						2
3	6																						3
4	8																						4
5																							5
6																							6
7																							7
8																							8
9																							9
10																							10
11																							11
12																							12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes: See n.1.7 transect survey

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSERP_Spring 10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 60

CONSC CAST # 0805807
 DEGREE MIN 58 07
 DEGREE MIN 73 03
 LONGITUDE 177 W
 DATE: MAY 10 1438
 TIME (GMT): -2:16
 PRESSURE (mb): 17
 WIND DIRN. (deg): 03
 WIND SPD. (kts): 15
 CLOUD (amt):
 WEATHER: NS10
 BOTTOM DEPTH (m): 109
 STA. NAME/ID: MZ10

DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)
0805807	5807	7303	17	W	MAY	10	1438	2	16		17			03	15			109

REMARKS: MAX. DEPTH = m

N/S	DEPTH	Roset:	Hydro Team-PMEL										Jen	Lomas	Moran	Harvey	Carrn/ Sherr	Katrin	N/S	
			DESIRED	notes	SALT	NUT.BH	O2-BH.LNO	CHL.	Frac CHL.	D/CAL	DOC	Wg/gartner								Urea
1	Bot		114	158																1
2	75			159																2
3	50			160			LC1LD1													3
4	40			161			12													4
5	30			162			3													5
6	20			163			4													6
7	10			164			5													7
8	0		Y16	165	112		LC													8
9																				9
10																				10
11																				11
12																				12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes:
 Big Ice Clumps ~ 2 mi

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 69

CONSC CAST # 08158
 DEG 17.01 N
 LONGITUDE 17234.17 W
 DAY 22
 MO MAY
 YR 10
 TIME (GMT) 17:51
 DRY BULB 2.8
 WET BULB
 PRESSURE 1.014
 SEA STATE *
 VISIBILITY *
 WIND DIRN 014
 WIND SPD 14
 CLOUD (amt) *
 WEATHER *
 BOTTOM DEPTH 105
 STA. NAME/ID NZ9

SBE 9+ FLUOR S/N
 SBE43-Oxy (prime)
 SBE43-Oxy (sec)
 Transmissometer
 PAR S/N
 Q2 Temp Sensor No.

NIS	DEPTH	Roset.	Hydro Team-PMEL				Jessica				Weingartner			Sambrotto			Jan	Lomas	Moran	Harvey	Carrin/ Sherr	Karin	NIS
			No	DESIRED	notes	SALT	Nut Btl	O2-Btl/NO	CHL.	Frac CHL.	DIC/Alk	DOC	O18	Urea	Part.	Prod							
1	Bot			164	127																		1
2	75			167																			2
3	50			168																			3
4	40			169																			4
5	30			170																			5
6	20			171																			6
7	16			172																			7
8	0	BAD LEAK		173																			8
9																							9
10																							10
11																							11
12																							12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes:

VESSEL		CRUISE ID		PROJECT & LEG		SHIP'S CTD filename		STATION NO.												
R/V Thomas G. Thompson		TN249		BEST/BSIERP-Spring'10		249xxxxx		24906201												
CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)	DRY BULB (°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				
	DEG	MIN	DEG	MIN													DAY	MO	YR	HR
0825	82	57	N	172	05	07	W	22	M	A	Y	10	20	13	2	7	2	103	NZB	
SBE 9+ _____ FLUOR S/N _____ PRESS SN _____ SBE43-Oxy (prime) _____ PRI TEMP SN _____ SBE43-Oxy (sec) _____ SEC TEMP SN _____ Transmissometer _____ PRI COND SN _____ PAR S/N _____ SEC COND SN _____ OC Temp Sensor No. _____																				
Rosette Notes: _____ Hydro Team-PMEL _____ Jessica _____ Weingartner _____ Sambrotto _____ Jen _____ Lomas _____ Moran _____ Harvey _____ Carrin/ Sherr _____ Katrin _____																				
No.	DESIRED	notes	SALT	NUT Btl	O2-Btl/NO	CHL.	Frac CHL.	DIC/Alk	DOC	018	Urea	Part.	Prod	DON						
1	bottom	9m	717	174	146															1
2	75			175																2
3	50			176		LD1	LC1													3
4	40			177		2	2													4
5	30			178		3	3													5
6	20			179		4	4													6
7	10			180		5	5													7
8	0			181		6	6													8
9	0																			9
10																				10
11																				11
12																				12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

9 buckets before cracking
 2-4, 6-8 buckets when cracked

P

VESSEL		R/V Thomas G. Thompson		CRUISE ID		TN249		PROJECT & LEG		BEST/BSIERP_Spring110		Ship's CTD filename		249xxxxx		2496301		STATION NO.		63											
CONGC		LATTITUDE		LONGITUDE		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID			
CAST #		DEG MIN		DEG MIN		DAY MO YR		HR MIN		°C		°C		mb		*		* (deg)		* (kts)		* * *		* * *		(m)					
0835836.114		N		17135.64		W 22 MAY 10		2307-2.5				16				32216										92N207					
SBE 9+		FLUOR S/N		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.		REMARKS		MAX DEPTH =		m													
PRESS SN		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.		REMARKS		MAX DEPTH =		m															
PRI TEMP SN		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.		REMARKS		MAX DEPTH =		m															
SEC TEMP SN		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.		REMARKS		MAX DEPTH =		m															
PRI COND SN		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.		REMARKS		MAX DEPTH =		m															
SEC COND SN		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.		REMARKS		MAX DEPTH =		m															
NIS		Roset.		Hydro Team-PMEL		Jessica		Weingartner		Sambrotto		Jen		Lomas		Moran		Harvey		Carin/		Katrin		NIS		No.					
No		DEPTD		notes		SALT		Nut.Btl		O2-Btl.No		CHL		Frac CHL		DIC/Alk		DOC		Urea		Part.		Prod		DON					
1		bottom		90m		Y18		182		227																					
2		75		76m				183																							
3		50						184				SB1																			
4		40						185				12																			
5		30						186				3																			
6		20						1				4																			
7		20		celia																											
8		20		celia																											
9		10						2				SB5																			
10		10																													
11		0						3				SB6																			
12		0						1																							

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:
 samples up ending in 9
 samples when ending in 11, 12

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSERP_Spring10
 SHIP'S CTD filename: 249xxxxx
 STATION NO.: 666

CONSC CAST #: 0865904.22
 LATITUDE: 70 10.22 N
 DEGREE: 08
 MINUTE: 10
 SECOND: 22
 LONGITUDE: 170 10.22 W
 DEGREE: 17
 MINUTE: 10
 SECOND: 22
 DATE: 23 MAY 10
 TIME (GMT): 1001
 DRY BULB: -2.3
 WET BULB: .
 PRESSURE: 13
 SEA STATE: *
 VISIBILITY: *
 WIND DIRN.: 309
 WIND SPD.: 16
 CLOUD (amt.): *
 WEATHER: *
 BOTTOM DEPTH: 67
 STA. NAME/ID: TOM32

REMARKS: *Sty Cool*
 MAX DEPTH = 67 m

SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 FLUOR S/N
 SBE43-Oxy (ptine)
 SBE43-Oxy (sec)
 Transmissometer
 PAR S/N
 O2 Temp Sensor No.

No	DEPT#	Roset.	SALT	Nut.Bt	O2-Btl.No	CHL.	Frac CHL.	DIC/Alk	DOC	Urea	Sambroto			Jan	Lomas	Moran	Harvey	Carin/ Sherr	Katrin	No	
											Part.	Prod	DON								
1	BAT	60	732	17	198																
2	50			18			SA1	SA1													
3	40			19			SA2	SA2													
4	30			20			SA3	SA3													
5	20			21			SA4	SA4													
6	15			22			SA5	SA5													
7	10	broken		23			SA6	SA6													
8	0			24			SA7	SA7													
9																					
10																					
11																					
12																					

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes:
*Small ice cubes floating during CTD
 131g pieces during sampling*

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSERP_Spring110
 STATION NO.: 66

SHIP'S CTD filename: 249xxxxx
 2490602

CONSC CAST #
 LATITUDE: 59° 41.19' N
 LONGITUDE: 170° 14.43' W
 DATE: 23 MAY 10
 TIME (GMT): 11:29
 DRY BULB (°C): 2.4
 WET BULB (°C):
 PRESSURE (mb): 12
 SEA STATE:
 VISIBILITY:
 WIND DIRN. (deg): 208
 WIND SPD. (kts): 16
 CLOUD (amt):
 WEATHER:
 BOTTOM DEPTH (m): 71
 STA. NAME/ID: 70M3-1

DEG MIN DEG MIN DAY MO YR HR MIN
 SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 O2 Temp Sensor No.

FLUOR S/N
 SBE43-Oxy (prime)
 SBE43-Oxy (sec)
 Transmissometer
 PAR S/N
 O2 Temp Sensor No.

NIS No.	DEPT/DEPTH	Roset. notes	SALT	Nut: Btl	O2-Btl/No	CHL.	Frac CHL.	DIC/Alk	DOC	018	Sambrotto			Jen	Lomas	Moran	Harvey	Carin/Sherr	Katrin	NIS No.
											Urea	Part.	Prod							
1	20																			1
2	12																			2
3	12																			3
4	12																			4
5	12																			5
6	12																			6
7																				7
8																				8
9																				9
10																				10
11																				11
12																				12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

REMARKS: *Lead and cast*

MAX DEPTH = m

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 166

CONSC CAST #: 0885904.31 N
 LATITUDE: 17° 01' 0.26" W
 DEGREE: 0885904.31
 MINUTE: 17
 SECOND: 01
 TENTH: 0.26
 LONGITUDE: 17010.26
 DAY: 23
 MONTH: MAY
 YEAR: 10
 TIME (GMT): 1432-2.7
 DRY BULB: 12
 WET BULB: 12
 PRESSURE: 32016
 SEA STATE: *
 VISIBILITY: *
 WIND DIRN.: 32016
 WIND SPD.: 16
 CLOUD (amt.): *
 WEATHER TYPE: *
 BOTTOM DEPTH: 67
 STA. NAME/ID: WZ4

DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)
0885904.31		17	01	23	MAY	10	14	32	-2.7		12	*	*	32016	16	*	*	67

REMARKS: 200PS
 ship repositioned to avoid ice floes

No.	DEPTH	Roset.	SALT	Nut.Btl	O2-Btl.No	Hydro Team-PMEL			DOC	018	Sambrotto			Jen	Lomas	Moran	Harvey	Carriv/ Sherr	Katrin	No.
						CHL.	Frac CHL.	DIC/Alk			Urea	Part.	Prod							
1	19			X25																1
2	19																			2
3	19																			3
4	19																			4
5	19																			5
6	19																			6
7	19																			7
8	19																			8
9	19																			9
10	19																			10
11	19																			11
12	19																			12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Big ice floes, small rest

Rosette Notes:

VESSEL: R/V Thomas G. Thompson CRUISE ID: TN249 PROJECT & LEG: BEST/BSIERP_Spring 10 STATION NO.: 66

SHIP'S CTD filename: 249xxxxx 24906604

CONSC CAST # 5895904 DEG MIN 70 10.19 DAY MO YR 23 MAY 10 HR MIN 16 06-2.5 PRESSURE (mb) 12 SEA STATE * * VISIBILITY (deg) 32615 WIND DIRN. (deg) WIND SPD. (kts) 5 CLOUD (amt) * * WEATHER TYPE * * BOTTOM DEPTH (m) 67 STA. NAME/ID ZOH32

LONGITUDE: DEG MIN 70 10.19 DAY MO YR 23 MAY 10 HR MIN 16 06-2.5

REMARKS: Poor Cast

NIS	DEPTH	Roset. notes	SALT	Nut.Btl	O2-Btl.No	CHL	Frac CHL	DIC/Alk	DOC	O18	Sambrotto			Jen	Lomas	Moran Th	Harvey Lessard	Carri/ Sherr	Katrin	NIS No.	
											Urea Part.	Prod	DON								
1	30													0						1	1
2	22													5							2
3	22													9							3
4	15													17							4
5	9													30							5
6	7													58							6
7	4													100							7
8	0																				8
9	0																				9
10																					10
11																					11
12																					12

ICE LOG: Surface Ice Conditions or proximity to ice edge
ice floes
0,225m

Rosette Notes:

VESSEL		CRUISE ID		PROJECT & LEG		Ship's CTD filename		STATION NO.																					
R/V Thomas G. Thompson		TN249		BEST/BSIERP_Spring 10		249xxxxx		249 06701																					
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
09		58 46.45 N		17 01 17.59 W		23 MAY 10		21 10 - 1.5			12		* *		306		14		* *		711		70M30					
DEG MIN		DEG MIN		DAY MO YR		HR MIN		(°)		(°)		(mb)		* *		(deg)		(kts)		* *		(m)							
SBE 9+		FLUOR S/N		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.		REMARKS		MAX DEPTH =		m											
PRESS SN		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.		3, 4, 7 - Raker after vent started		2 - Raker right out of water															
PRI TEMP SN		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.																					
SEC TEMP SN		Transmissometer		PAR S/N		O2 Temp Sensor No.																							
PRI COND SN		PAR S/N		O2 Temp Sensor No.																									
SEC COND SN		O2 Temp Sensor No.																											

NIS	DEPTH	Roset:	Hydro Team-PMEL				Jessica	Weingartner	Sambrotto			Jen	Lomas	Moran	Harvey	Carri/	Katrin	NIS
			DESIRED	notes	SALT	Nut Bit			O2-Btl/No	CHL	Frac CHL							
1	Bottom	66m	393	26	218												1	
2	56			27		SB1											2	
3	40			28		2											3	
4	30			29		3											4	
5	20			30		4											5	
6	10			31		5											6	
7	0			32		6											7	
8																	8	
9																	9	
10																	10	
11																	11	
12																	12	

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

Ice present, a few pieces of brash & larger bergy bits less than 1% coverage

VESSEL		R/V Thomas G. Thompson		CRUISE ID TN249		PROJECT & LEG		BEST/BSIERP_Spring10		Ship's CTD filename		249xxxxx		2 4 9 06801		STATION NO.		68											
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB (°C)		WET BULB (°C)		PRESSURE (mb)		SEA STATE		VISIBILITY		WIND DIRN. (deg)		WIND SPD. (kts)		CLOUD (amt)		WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID	
091		58 26.78 N		17 011.111 W		24 MAY 10 02 46		-1.2		.		12		**		29		716		**		**				7370m		28	
SBE 9+		FLUOR S/N		SBE43-Oxy (prine)		REMARKS																							
PRESS SN		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.																					
No		DEPT#		Roset.		Hydro Team-PMEL		Jessica		Weingartner		Sambrotto		Jen		Lomas		Moran		Harvey		Carrin/Sherr		Katrin		No.			
1		bottom		65 m - 394		- 33		LD 1																		1			
2		50				- 34																				2			
3		40				- 35		2																		3			
4		30				- 36		3																		4			
5		20				- 37		4																		5			
6		10				- 38		5																		6			
7		0				- 39		↓ 6																		7			
8		0				- 151																				8			
9																										9			
10																										10			
11																										11			
12																										12			

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

Laked when cored: 2, 3, 5, 7, 4

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring110
 STATION NO.: 70

Ship's CTD filename: 249xxxxx
 24907001

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID									
09357	38	23	N	17	10	32	91	W	24	M	A	Y	1	0	11	07	0	7		15	*	*		277	16			76	E V4

REMARKS: 1 sound / STD
 MAX DEPTH = m

NIS No.	DEPT/DEPTH	notes	SALT	NUT. BIT	OR-BTLNO	CHL.	Frac CHL.	DIC/ALK	DOC	018	Sambrotto			Jen	Lomas	Moran	Harvey	Carin/Sherr	Katrin	NIS No.	
											Urea	Part.	Prod								DON
1	007		397	47	216																1
2	50			48		S81	SA1														2
3	40			49		S82	SA2														3
4	30			50		S83	SA3														4
5	20			51		S84	SA4														5
6	10			52		S85	SA5														6
7	6																				7
8	6																				8
9	6																				9
10	6																				10
11	6																				11
12	0			53		S86	SA6														12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring10
 STATION NO.: 71

SHIP'S CTD filename: 249xxxxx
 24907101

CONSC CAST # 914
 DEG 56 MIN 55.58 N
 DEG 167 MIN 19.30 W
 DAY 25 MO MAY YR 10 HR 12 MIN 23
 TIME (GMT) DRY BULB (°C) WET BULB (°C) PRESSURE (mb) SEA STATE VISIBILITY (deg) WIND DIRN. (deg) WIND SPD. (kts) CLOUD (amt) TYPE WEATHER
 123 02. 78

REMARKS: *Lossend/Hansen*
 MAX DEPTH = 78 m

NIS	DEPTH	Roset. notes	SALT	Nut.Btl	O2-Btl.No	Hydro Team-PMEL			Jessica			Weingartner			Sambrotto			Jen	Lomas	Moran	Harvey	Carin/Sherr	Katrin	NIS
						CHL.	Frac CHL.	DIC/ALK	DOC	Urea	Part.	Prod	DON	Th	Lessard									
1	12	12	54	58	58	SA1	SA2	SA3	SA4															1
2	50		55			SA1																		2
3	40		56			SA2																		3
4	30		57			SA3																		4
5	20		58			SA4																		5
6	12																							6
7	12																							7
8	12																							8
9	12																							9
10	12																							10
11	10		59			SA5	SA6																	11
12	0		60			SA7	SA8																	12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 No ICE!
 2° thermocline w/ sal spike
 Bad sal on upcast -

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP - Spring'10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 71

CONSC CAST # 0915
 DEG 56 55.00 N
 LONGITUDE 167 19.00 W
 DAY 25
 MO MAY
 YR 10
 HR 14
 MIN 20
 SEC 2.4
 TIME (GMT)
 DRY BULB (°C)
 WET BULB (°C)
 PRESSURE (mb)
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg)
 WIND SPD. (kts)
 CLOUD (amt) *
 WEATHER *
 BOTTOM DEPTH (m)
 STA. NAME/ID: HBR1

SBE 9+ FLUOR S/N
 PRESS SN SBE43-Oxy (prime)
 PRI TEMP SN SBE43-Oxy (sec)
 SEC TEMP SN Transmissometer
 PRI COND SN PAR S/N
 SEC COND SN O2 Temp Sensor No.
 REMARKS: 200PS CAST
 MAX DEPTH = m

NIS No.	DEPTH	Roset. notes	SALT	Nut:Btl	O2-Btl/No	CHL.	Frac CHL.	DIC/Alk	DOC	O18	Urea	Sambrotto			Jen	Lomas	Moran	Harvey	Carriv/ Sherr	Katrin	NIS No.
												Part.	Prod	DON							
1	23			X61																	1
2	23																				2
3	23																				3
4	23																				4
5	23																				5
6	23																				6
7	23																				7
8	23																				8
9	23																				9
10	23																				10
11	10																				11
12	10																				12

ICE LOG: Surface Ice Conditions or proximity to ice edge NO ICE - damp + cold

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BIERP_Spring 10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 71

CONSC CAST # 965654.92
 LATITUDE 16719.41
 DEGREE MIN 167 19 41
 LONGITUDE W R 5 T M A Y 1 0
 TIME (GMT) 16
 DRY BULB -2.6
 WET BULB .
 PRESSURE 17
 SEA STATE * *
 VISIBILITY * *
 WIND DIRN. 20
 WIND SPD. 4
 CLOUD (amt) 0
 WEATHER H
 BOTTOM DEPTH 78
 STA. NAME/ID HBR1

DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)											
96	56	54	92	N	16	7	19	41	W	R	5	T	M	A	Y	1	0	16	-2.6	.	17	*	*	20	4	0	H	78	HBR1

REMARKS: Prod Cast

NIS	DEPTH	Roset.	Hydro Team-PMEL				Jessica	Wingartner	Sambrotto			Jen	Lomas	Moran	Harvey	Carri/Sherr	Katrin	NIS
			DESIRED	notes	SALT	Nut/Btl			O2-Btl.No	CHL.	Frac CHL.							
1	28																	1
2	26																	2
3	21																	3
4	16																	4
5	11																	5
6	7																	6
7	4																	7
8	0																	8
9	0																	9
10	0																	10
11	0																	11
12	0																	12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 No. Ice
 Rosette Notes: Surfy + 26 (cell max)

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring10
 STATION NO.: 72

SHIP'S CTD filename: 249xxxxx
 24907201

CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID															
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)													
097	56	58	22	N	167	09	31	W	5	M	A	Y	1	0	19	83	-2	4		15				107	08							74	KP3

REMARKS: 23457 - Lectra's when vented

NIS	DEPTH	Roset.	SALT	Nut:BI	O2-BI:No	CHL	Frac CHL	DIC/Alk	DOC	Weingarten	Urea	Part.	Prod	DON	Jen	Lomas	Moran	Harvey	Carriv/	Katrin	NIS
1	Bot		400	63	X016	SB1															1
2	50			64		SB1															2
3	40			65		SB2															3
4	36			66		SB3															4
5	20			67		SB4															5
6	10			68		SB5															6
7	0			69		SB6															7
8																					8
9																					9
10																					10
11																					11
12																					12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring'10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 73

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
0985707	163	N	16645.117	W	25 MAY 10	21.57	21.6	116	*	*	158	10	*	*	72	KPR2

REMARKS: _____
 MAX. DEPTH = _____ m

SBE 9+ _____
 PRESS SN _____
 SBE43-Oxy (prime) _____
 SBE43-Oxy (sec) _____
 PRI TEMP SN _____
 SEC TEMP SN _____
 Transmissometer _____
 PRI COND SN _____
 PAR S/N _____
 SEC COND SN _____
 O2 Temp Sensor No. _____

NIS	DEPTH	Roset.	Hydro Team-PMEL			Jessica			Weingartner			Sambrotto			Jen	Lomas	Moran	Harvey	Carin/	Karin	NIS
			No	DESIRID	notes	SALT	Nut.Bt	O2-Btl.No	CHL	Frac CHL	DIC/Alk	DOC	Urea	Part.							
1	50	Bottom (67m)	401	70	113	SBI															1
2	410			72			2														2
3	30			73			3														3
4	20			74			4														4
5	10			75			5														5
6	0			76			6														6
7																					7
8																					8
9																					9
10																					10
11																					11
12																					12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes: _____
 Leadline: 2, 3, 4, 5, 6, 7
 when verted
 No ice present

VESSEL		R/V Thomas G. Thompson		CRUISE ID	TN249	PROJECT & LEG	BEST/BSIERP_Spring10		Ship's CTD filename	249xxxxx		24907401	STATION NO.	74																									
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID																					
09957		16.911 N		16621.05 W		26 MAY 10		0010-2.3		15	*	*	16612				76KPI																						
DEG		MIN		DEG		MIN		DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)																	
SBE 9+		PRESS SN		SBE43-Oxy (prine)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.		REMARKS		MAX DEPTH =																							
NO		DEPTH		Roset.		Hydro Team-PMEL		Jessica		Weigartner		Sambrotto		Jen		Lomas		Moran		Harvey		Carri/Katrin																	
NO		DEPTH		notes		SALT		Nut.Bit		O2-Btl.No		CHL.		Frac CHL.		DIC/Alk		DOC		Urea		Part.		Prod		DON		Jen		Lomas		Moran		Harvey		Carri/Katrin		No.	
1		Bottom		63m		402-77		-78		S81		SA1																											
2		50						-79		2		2																											
3		40						-80		3		3																											
4		30						-81		4		4																											
5		20						-82		5		5																											
6		10						-83		232		6		6																									
7		0																																					
8																																							
9																																							
10																																							
11																																							
12																																							

ICE LOG: Surface Ice Conditions or proximity to ice edge No ice present

Rosette Notes:

labeled without cracking: 2
labeled: 3, 4, 6

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring'10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 75

CONSC CAST #: 1005648
 LATITUDE: 67° 32.81' N
 DEGREE: 67, MINUTE: 32, SECOND: 81
 LONGITUDE: 167° 32.81' W
 DEGREE: 167, MINUTE: 32, SECOND: 81
 TIME (GMT): 0520-06
 HR: 05, MIN: 20, SEC: 06
 DRY BULB: -0.6
 WET BULB: .
 PRESSURE: 111
 SEA STATE: *
 VISIBILITY: *
 WIND DIRN: 127
 WIND SPD: 12
 CLOUD (amt): *
 TYPE: *
 WEATHER: *
 BOTTOM DEPTH: 87
 STA. NAME/ID: KP 4

NIS No	DEPTH DESIRED	Roset. notes	SALT	Nur. Bri	O2-Bit/No	CHL.	Frac CHL.	DIC/Alk	DOC	018	Sambrotto			Jen	Lomas	Moran	Harvey	Cairn/ Sherr	Katrin	NIS No
											Urea Part.	Prod	DON							
1	bottom	80m	403	84	-003															1
2	65			85																2
3	50			86		S81														3
4	40			87		2														4
5	30			88		3														5
6	20			89		4														6
7	10			90		5														7
8	0			91		6														8
9																				9
10																				10
11																				11
12																				12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Notice present

Rosette Notes:
 Labels: 2,3,4,8 when cracked

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring'10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 76

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB (°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
101	56	39	16	75	6	3	10	07	40	00.4			091	*	*	122	18				103	KRP5

REMARKS: MAX. DEPTH = m

SBE 9+ _____ FLUOR S/N _____
 PRESS SN _____ SBE43-Oxy (prime) _____
 PRI TEMP SN _____ SBE43-Oxy (sec) _____
 SEC TEMP SN _____ Transmissometer _____
 PRI COND SN _____ PAR S/N _____
 SEC COND SN _____ O2 Trip Sensor No. _____

NIS	DEPTH	Roset:	Hydro Team-PHEL				Jessica	Weingarten	Sambrotto			Jen	Lomas	Moran	Harvey	Carrin/ Sherr	Karin	NIS
			No.	DESIRED	notes	SALT			Nut:Btl	O2-Btl.No	CHL.							
1	bottom	95m	405	92	200													1
2	75			93														2
3	50			94		S81	S81											3
4	40			95		12	2											4
5	30			96		3	3											5
6	25			97														6
7	20			98		S84	S84											7
8	10			99		15	5											8
9	0			100		6	6											9
10																		10
11																		11
12																		12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring10
 STATION NO.: 77

SHIP'S CTD filename: 249xxxxx
 24907701

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
1025	63	0.35	N	168	20	45	W	24	M	A	Y	10	09	54	1.7	.	07	109	19		718	KPL

REMARKS: _____
 MAX DEPTH = _____ m

SBE 9+ _____
 PRESS SN _____
 PRI TEMP SN _____
 SEC TEMP SN _____
 PRI COND SN _____
 SEC COND SN _____

FLUOR S/N _____
 SBE4-3-Oxy (prime) _____
 SBE4-3-Oxy (sec) _____
 Transmissometer _____
 PAR S/N _____
 O2 Trip Sensor No. _____

No	DEPTH	notes	SALT	Nut Btl	O2-Btl/No	CHL.	Frac CHL.	DIC/Alk	DOC	018	Sambrotto			Jen	Lomas	Moran	Harvey	Carin/ Sherr	Katrin	No.	
											Urea	Part.	Prod								DON
1	Bot		456	101																	1
2	80			103																	2
3	50			103		581															3
4	40			104		582															4
5	30			105		583															5
6	20			166		584															6
7	10			107		585															7
8	B		466	108	V220	586															8
9																					9
10																					10
11																					11
12																					12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL: R/V Thomas G. Thompson CRUISE ID: TN249 PROJECT & LEG: BEST/BIERP_Spring 10 SHIP'S CTD filename: 249xxxxx 24907801 STATION NO. 78

CONSC CAST #: 1435629.32N 16823.11W 26 MAY 10 1117 1.3 . . . 06 10921 118 KPL65

DEG MIN DEG MIN DAY MO YR HR MIN DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY WIND DIRN. WIND SPD. CLOUD (amt) TYPE WEATHER BOTTOM DEPTH STA. NAME/ID

LONGITUDE: 16823.11 W 26 MAY 10 1117 1.3 . . . 06 10921 118 KPL65

REMARKS: CTD for NetTours Site No 8715

NIS	DEPTH	Roset.	Hydro Team-PMEL			Jessica			Wingarnet	Sambrotto			Jen	Lomas	Moran	Harvey	Carriv/ Sherr	Katrin	NIS
			No	DESIRED	notes	SALT	Nut.Btl	O2-Btl.No		CHL.	Frac CHL.	DIC/ALK							
1									018										1
2																			2
3																			3
4																			4
5																			5
6																			6
7																			7
8																			8
9																			9
10																			10
11																			11
12																			12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BIERP_Spring 10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 81

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	DRY BULB (°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
1055810	169	54	76	27	MAY	10	11	36	0.9	02	93	24								7376	Tom 76

REMARKS: Star 80 was a multicore star
 MAX DEPTH = m

NIS	DEPTH	Roset.	Hydro Team-PMEL				Jessica				Weingartner				Sambrotto				Jen	Lomas	Moran	Harvey	Carriv/ Sherr	Katin	NIS
			NO. DESIRED	notes	SALT	Nut Btl	O2-Btl/NO	CHL.	Frac CHL.	DIC/ALK	DOC	Urea	Part.	Prod	DON	Urea	Part.	Prod							
1	807		X 4/10	X 120	X 217																				1
2	50			X 191		591	5A1																		2
3	40			X 192		591	5A2																		3
4	30			X 193		593	5A3																		4
5	20	on water		X 194		594	5A4																		5
6	10																								6
7	10																								7
8	10																								8
9	10																								9
10	10																								10
11	10					X 195	5B5	5A5																	11
12	0					X 196	5B6	5A6																	12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes: Ice edge, broken blocks

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring'10
 Ship's CTD filename: 249xxxxx
 STATION NO. ~~08102~~ 08102

CONSC CAST # 1
 DEG 065810.29 N
 MIN 16958.84 W
 DAY 27
 MO MAY
 YR 10
 HR 1423
 MIN 00.8
 TIME (GMT) 00.8
 DRY BULB (°C) 03
 WET BULB (°C) 03
 PRESSURE (mb) * *
 SEA STATE * *
 VISIBILITY (deg) * *
 WIND DIRN. (deg) * *
 WIND SPD. (kts) * *
 CLOUD (amt) * *
 WEATHER TYPE * *
 BOTTOM DEPTH (m) 72
 STA. NAME/ID 70M26

REMARKS: *Iceops cast*
 MAX DEPTH = m

NIS No.	DEPTH DESIRED	Roset. notes	Hydro Team-PMEL				Jessica			Wingartner			Sambrotto			Jen	Lomas	Moran Th	Harvey	Lessard	Carin/ Sherr	Karin	NIS No.
			SALT	Nur:Br	O2-Btl.No	CHL	Frac CHL	DIC/Alk	DOC	O18	Urea	Part.	Prod	DON									
1	29.5																						1
2	28.5																						2
3																							3
4																							4
5																							5
6																							6
7																							7
8																							8
9																							9
10																							10
11																							11
12																							12

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes: *This was near ice at last cast, but we don't see any now.*

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BSIERP_Spring'10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 81

CONSC CAST # 1675810.11
 LATITUDE: DEG 16954.59, MIN 27, DAY 01, MO MAY, YR 10
 LONGITUDE: DEG 1606, MIN 0.8, DAY 02, MO MAY, YR 10
 TIME (GMT): HR 07, MIN 21
 DRY BULB: 0.8 (°C)
 WET BULB: (°C)
 PRESSURE: 0.2 (mb)
 SEA STATE: *
 VISIBILITY: *
 WIND DIRN: 077, WIND SPD: 21 (kts)
 CLOUD (amt): *
 WEATHER: *
 BOTTOM DEPTH: 73 (m)
 STA. NAME/ID: 74m26

SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 FLUOR S/N
 SBE43-Oxy (prime)
 SBE43-Oxy (sec)
 Transmissometer
 PAR S/N
 O2 Temp Sensor No.
 REMARKS: PROD CAST
 MAX DEPTH = m

NIS	DEPTH	Roset.	SALT	Hydro Team-PMEL			Jessica			Weingartner			Sambrotto			Jen	Lomas	Moran	Harvey	Carrin/	Karrin	NIS
				Nut.Br1	O2-Btl.No	CHL.	Frac CHL.	DIC/AIK	DOC	O18	Urea	Part.	Prod	DON	Th							
1	34															15					1	
2	23															5					2	
3	16															9					3	
4	13															17					4	
5	7															20					5	
6	4															55					6	
7	0															100%					7	
8																					8	
9																					9	
10																					10	
11																					11	
12																					12	

ICE LOG: Surface Ice Conditions or proximity to ice edge
 Rosette Notes: Jan - Aug + 22
 Some ice floes visible ~ 1 mi away.

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: TN249
 BEST/BSIERP_Spring'10
 Ship's CTD filename: 249xxxxx
 STATION NO.: 82

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
1085744		46	N	70	32	6	0	21	11	10	2		02	*	*	061	24	*	*	075	B0B1

REMARKS: No oxygen sample; too many air bubbles

SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN

FLUOR S/N
 SBE43-Oxy (prime)
 SBE43-Oxy (sec)
 Transmissometer
 PAR S/N
 O2 Temp Sensor No.

MAX DEPTH =

NIS No.	DEPTH DESIRED	Roset. notes	SALT	Nut Bt	O2-Bt/LNO	CHL.	Frac CHL.	DIC/Alk	DOC	DOC	018	Sambrotto			Jen	Lomas	Moran	Harvey	Carrin/ Sherr	Katrin	NIS No.
												Urea	Part.	Prod							
1	bottom	30m													✓						1
2	50			128		LD1									✓						2
3	40			129		2									✓						3
4	30			130		3									✓						4
5	20			131		4															5
6	10			132		5															6
7	0			133		6										✓					7
8																					8
9																					9
10																					10
11																					11
12																					12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

Leakage: 2, 4, 7 without corking
 1 - leaking out of water badly

VESSEL: R/V Thomas G. Thompson
 CRUISE ID: TN249
 PROJECT & LEG: BEST/BIERP_Spring 10
 STATION NO.: 83

SHIP'S CTD filename: 249xxxxx
 24908301

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID			
109	56	22	61	N	16	9	58	64	W	28	M	A	Y	10	11	08	2.1		02	045	22	106	EVS

REMARKS: *Lessard / Stal*
**Midnight to noon O2 samples*
Switch to Cross

NIS	DEPTH	Roset. notes	SALT	Nut:Btl	O2-Btl/No	CHL	Frac CHL	DIC/Alk	DOC	Weigartner	Sambrotto			Jen	Lomas	Moran	Harvey	Carin/ Sherr	Katrin	NIS
											Urea	Part.	Prod							
1	98		413	134	074					018										1
2	75			135																2
3	50			136		SBI														3
4	40			132		2														4
5	30			138		3														5
6	20			139		4														6
7	14			140		5														7
8	14																			8
9	14																			9
10	14																			10
11	14																			11
12	0			141		6														12

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

VESSEL		CRUISE ID		PROJECT & LEG		Ship's CTD filename		STATION NO.																		
R/V Thomas G. Thompson		TN249		BEST/BSIERP_Spring'10		249xxxxx		249 0401																		
CONSC CAST #	LATITUDE		LONGITUDE		DAY	MO	YR	TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID					
	DEG	MIN	DEG	MIN				HR	MIN													(°C)	(°C)	(mb)	*	(deg)
11055	26	16	N	168	03	38	W	28	M	AY	10	23	16	3	9		98			058	23			193	CM 17	
REMARKS																										
Cast after Sediment trap deploy																										
MAX DEPTH = m																										
No.	DEPTH	Reset.	SALT	Nuc. Btl	O2-Btl.No	CHL.	Frac CHL.	DIC/AIK	DOC	O18	Urea	Part.	Prod	DON	Jen	Lomas	Moran	Harvey	Carin/	Katrin	No.					
1	Bottom	189	415	143	226												1					1				
2	175			144													2					2				
3	150			145													3					3				
4	125			146													4					4				
5	100			147													5					5				
6	75			148													6					6				
7	50			149													7					7				
8	40			150													8					8				
9	30			151													9					9				
10	20			152													10					10				
11	10			153													11					11				
12	0			154													12					12				

ICE LOG: Surface Ice Conditions or proximity to ice edge

Rosette Notes:

23, 11, 12. 7. Leaker out of water
5, 6, 8 - Leakers when VMTed

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