

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSD8 I.D. THE07
 STATION DESIGNATION 143

CONSC CAST # 56.13
 LATITUDE 56.13
 LONGITUDE 12.97
 DATE JD= 117113
 TIME (GMT) 1053
 DRY BULB (°C) 1.6
 WET BULB (°C) 1.8
 PRESSURE (mb) 1006
 SEA STATE * * *
 VISIBILITY * * *
 WIND DIRN. (deg) 7
 WIND SPD. (kts) 9
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 21
 STA. NAME/ID XI-1-2

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

SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE
 JD/TIME
 PAR on Bridge (μEinsteins m-2s-1) =
 PAR S/N
 FLUOR S/N
 MAX. DEPTH = m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			CHL	DOM	Ray			Isotopes			Comment or Others
			SALT	NUTS	Oxygen			O2 Temp	Prod	ALK (MC)	DIC (MC)	N15	P32	
1	6.0	✓		114	✓ 151	-1.3								
2	6.0	✓		115										
3	5.6	✓		116										
4	4.0	✓		117										
5	3.0	✓		118										
6	2.0	✓		119										
7	1.0	✓		120										
8	0.0	✓		121	✓ 153	-1.2								
9	0.0	✓												
10	0.0													
11	0.0													
12	0.0													
13	0.0													
14	0.0													
15	0.0													
16														
17														
18														

Notes on Surface Ice Conditions or proximity to ice edge
 Pancake ice - 80%

VESSEL USCG Healy
 CRUISE ID 11E0701
 PROJECT & LEG BEST07
 DSOB I.D. 11E07
 STATION DESIGNATION 144

CONSC CAST # _____
 LATITUDE _____
 DEGREE MIN _____
 LONGITUDE _____
 DEGREE MIN _____
 DATE JD= _____
 DAY MO YR _____
 TIME (GMT) _____
 DRY BULB _____
 WET BULB _____
 PRESSURE _____
 SEA STATE _____
 VISIBILITY _____
 WIND DIRN. _____
 WIND SPD. _____
 CLOUD (amt) _____
 WEATHER _____
 BOTTOM DEPTH _____
 STA. NAME/ID _____

1525845.53N 17143.05W 30 APR 07 1358-2.3
 98
 35812
 95KT 203

SBE 9+ _____
 PRESS SN _____
 PRI TEMP SN _____
 SEC TEMP SN _____
 PRI COND SN _____
 SEC COND SN _____
 TIMES _____
 DATA ON _____
 START DOWN _____
 AT DEPTH _____
 AT SURFACE _____
 PAR S/N _____
 FLUOR S/N _____
 PAR on Bridge (uEinsteins m-2s-1) = _____
 20C + 0.7 PSU = 15

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS					Ray Prod	Melissa ALK (MC)	Tish DIC (MC)	NI 5	Isotopes		Comment or Others
			SALT	NUTS	Oxygen	O2 Temp	CHL.					DOM	P32	
1	60/85		254	1225	24/32	-0.10		V	V	V	V			
2	70			1235				V	V	V	V			
3	60			1245				V	V	V	V			
4	50			1258				V	V	V	V			
5	40			1268				V	V	V	V			
6	30			1271				V	V	V	V			
7	20			1284				V	V	V	V			
8	10			1298	0.39	0.50	-1.74	V	V	V	V			
9	8							V	V	V	V			NOT FIRED
10	0			1308				V	V	V	V			NOT FIRED
11														
12														
13														
14														
15														
16														
17														
18														

Notes on Surface Ice Conditions or proximity to ice edge

Large hole in ice pretty early

VESSEL: USCG Healy
 CRUISE ID: H10701
 PROJECT & LEG: BEST07
 DSD8 I.D.: 1HE07
 STATION DESIGNATION: 145

CONSC CAST # 3537
 LATITUDE 35.37
 LONGITUDE 12.81
 DATE JD= 1618
 TIME (GMT) 1618
 DRY BULB (°C) 2.7
 WET BULB (°C) 3.2
 PRESSURE (mb) 29
 SEA STATE * *
 VISIBILITY * *
 WIND DIRN. (deg) 349
 WIND SPD. (kts) 11
 CLOUD (amt) * * * *
 WEATHER * * * *
 BOTTOM DEPTH (m) 102
 STA. NAME/ID XI24

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

TIMES
 DATA ON _____
 START DOWN _____
 AT DEPTH _____
 AT SURFACE _____

JD/TIME _____

PAR on Bridge (Einstein's m-2s-1) = _____

PAR S/N _____
 FLUOR S/N _____

MAX. DEPTH = _____ m

SEQ.	DEPTHD	ROSETTE notes	SAMPLE BOTTLE NUMBERS				Ray	Melissa	Tish	Isotopes			Comment or Others				
			SALT	NUTS	Oxygen	O2 Temp				CHL.	DOM	Prod		ALK (MC)	DIC (MC)	N15	P32
1	97		247	114	089	6.2											
2	70			2													
3	60			3													
4	50			4													
5	40			5													
6	30			6													
7	20			7													
8	10			8													
9	8			9													
10	0			9													
11	0																
12	0	0 - 714485															
13																	
14																	
15																	
16																	
17																	
18																	

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCGB Healy CRUISE ID H10701 PROJECT & LEG BEST07 DS08 I.D. 1HE07 STATION DESIGNATION 146

CONSC CAST # 23.94 LATITUDE 42.74 LONGITUDE DATE JD= 1844 TIME (GMT) 1853 DRY BULB ('C) 2.9 WET BULB ('C) 4.3 PRESSURE (mb) 1010 SEA STATE * VISIBILITY * WIND DIRN. (deg) 345 WIND SPD. (kts) 14 CLOUD (amt) * * * WEATHER * * * BOTTOM DEPTH (m) 107 STA. NAME/ID 205

SBE 9+ PRESS SN PRI TEMP SN SEC TEMP SN PRI COND SN SEC COND SN
 TIMES DATA ON START DOWN AT DEPTH AT SURFACE
 PAR on Bridge (Einstein's m-2s-1) =
 Jollen
 REMARKS many jelly fish
 MAX. DEPTH = m

SEQ.	DEPTHD	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	Melissa	Tish	Isotopes	Trace gases	Micro Zoops	Ray Prod	Mashta N2/Ar	D. Sholl Radon	Devol 3-O2
			SALT	NUTS	O2-Mordy	O2 Temp										
1	102		246	106	092	0.3										
2	80			11												
3	70			12												
4	60			13												
5	50			14												
6	40			15												
7	30			16												
8	20			17												
9	10			18												
10	8			19												
11	0			198												
12	0															
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge
 Second O2 sensor went bad ascending at ~ 80m probably due to jellyfish

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSDB I.D. 1HE07 STATION DESIGNATION 147

CONSC CAST #	DEG	MIN	LONGITUDE	DEG	MIN	DATE JD=	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
1555812.97N			17315.08W			30	APR	80	7	23	08	2.9			10			314	7			110	XI2-6

SBE 9+ PRESS SN _____ DATA ON _____ JD/TIME _____
 PRI TEMP SN _____ START DOWN _____
 SEC TEMP SN _____ AT DEPTH _____
 PRI COND SN _____ AT SURFACE _____
 SEC COND SN _____ PAR S/N _____ FLUOR S/N _____

PAR on Bridge (ulstein's m-2s-1) = 740

REMARKS

MAX DEPTH = 106 m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	Isotopes δ15N δ32S	Trace gases Zoops	Micro Ray	Masha N2/Ar	D.Sholl Radon	Devol 3-02
			SALT	NUTS	O2-Mordy	O2 Temp									
1	106			20	*118	1.3									
2	75			21											
3	60			22											
4	50			23	*119	0.7									
5	40			24											
6	30			25	*136	-0.3									
7	20			26											
8	10			27											
9	8			28	*142	-1.6					X				
10	8			29							X				
11	0			29											
12	0														
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSDB I.D. 1HE07 STATION DESIGNATION 148

CONSC CAST # DEG MIN LATITUDE DEG MIN LONGITUDE DATE JD= 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) TYPE WEATHER BOTTOM DEPTH (m) STA. NAME/ID

1565812.75 N 17315.58 W 01 MAY 07 0544-2.4 09 269 2 110XIA-6B

SBE 9+ TIMES DATA ON JD/TIME
 PRESS SN START DOWN
 PRI TEMP SN AT DEPTH
 SEC TEMP SN AT SURFACE
 PRI COND SN
 SEC COND SN
 PAR S/N
 FLUOR S/N
 PAR on Bridge (ulmsteins m-2s-1) =
 REMARKS
 MAX. DEPTH = 107 m

FREQ	DEPTH	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	Melissa	Tish	Isotopes		Trace	Micro	Ray	Masha	D. Sholl	Devol
			SALT	NUTS	O2-Mordy		O2 Temp	CHL.	ALK (MC)	DIC (MC)	δ15N	δ33S	gases	Zoopos	Prod	N2/Ar
1	107			30	*145	0.9										
2	100			31			✓	✓	✓	✓	✓	✓				
3	80			32			✓	✓	✓	✓	✓	✓				
4	60			33			✓	✓	✓	✓	✓	✓				
5	50			34			✓	✓	✓	✓	✓	✓				
6	40			35			✓	✓	✓	✓	✓	✓				
7	30			36			✓	✓	✓	✓	✓	✓				
8	23			37			✓	✓	✓	✓	✓	✓				
9	23			38			✓	✓	✓	✓	✓	✓				
10	20			39			✓	✓	✓	✓	✓	✓				
11	15			40			✓	✓	✓	✓	✓	✓				
12	15			41			✓	✓	✓	✓	✓	✓				
13	12			42			✓	✓	✓	✓	✓	✓				
14	12			43			✓	✓	✓	✓	✓	✓				
15	9			44			✓	✓	✓	✓	✓	✓				
16	9			45			✓	✓	✓	✓	✓	✓				
17	6			46			✓	✓	✓	✓	✓	✓				
18	6			47			✓	✓	✓	✓	✓	✓				
19	3			48			✓	✓	✓	✓	✓	✓				
20	3			49			✓	✓	✓	✓	✓	✓				
21	0			50			✓	✓	✓	✓	✓	✓				
22	0			51			✓	✓	✓	✓	✓	✓				
23				52			✓	✓	✓	✓	✓	✓				
24				53			✓	✓	✓	✓	✓	✓				

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSD8 ID. 1HE07
 STATION DESIGNATION 148

CONSC CAST # 1525812.37 N
 DEG MIN
 LONGITUDE 17314.55 W
 DEG MIN
 DATE JD= 01 MAY 07
 DAY MO YR
 TIME (GMT) 0205-6.0
 HR MIN
 DRY BULB (°C)
 WET BULB (°C)
 PRESSURE (mb) 09
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 188
 WIND SPD. (kts) 2
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 111
 STA. NAME/ID I2-6B

SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 TIMES DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE
 JD/TIME
 PAR on Bridge (Einstein's m-2s-1) = 22
 REMARKS 302 CAST
 MAX. DEPTH = 108 m

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	Melissa ALK (MC)	Tish DIC (MC)	Isotopes 015N 032S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D Sholl Radon	Devol 3-02
			SALT	NUTS	02-Mordy	02 Temp										
1	108														X	
2	100														X	
3	100														X	
4	95														X	
5	90														X	
6	90														X	
7	80														X	
8	80														X	
9	65														X	
10	65														X	
11	55														X	
12	55														X	
13	35														X	
14	35														X	
15	25														X	
16	25														X	
17	16														X	
18	16														X	
19	16														X	
20	8														X	
21	8														X	
22	0														X	
23	0														X	
24	0														X	

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 STATION DESIGNATION 149
 DSOB ID: 1407

CONSC CAST # 03.13
 LATITUDE 41.96
 DEGREE MIN 1734
 LONGITUDE 1.76
 DEGREE MIN 1652
 DATE JD= 11 MAY 07
 TIME (GMT) 1046
 DRY BULB (°C) 1
 WET BULB (°C) -4
 PRESSURE (mb) 209
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 175
 WIND SPD. (kts) 7
 CLOUD (amt) *
 WEATHER *
 BOTTOM DEPTH (m) 118
 STA. NAME/ID KI27

SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 TIMES DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE
 JD/TIME
 PAR on Bridge (μEinsteins m-2s-1) =
 MAX DEPTH = m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	Tish DIC (MC)	Isotopes δ15N	Isotopes δ32S	Trace gases	Micro Zoops	Ray Prod	Massha N2/Ar	D Shoil Radon	Devol 3-O2
			SALT	NUTS	O2-Mordy	O2 Temp											
1	115		260	45	149	1.8			X	X							
2	100			41					X	X							
3	85			47					X	X							
4	60			48					X	X							
5	50			49					X	X							
6	46			50					X	X							
7	30			51					X	X							
8	20			52					X	X							
9	18			53					X	X							
10	15					150	-0.1		X	X							
11	10								X	X							
12	6								X	X							
13	0								X	X							
14	0								X	X							
15									X	X							
16									X	X							
17									X	X							
18									X	X							
19									X	X							
20									X	X							
21									X	X							
22									X	X							
23									X	X							
24									X	X							

Lygds

light snow

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSOB ID. H1E07
 STATION DESIGNATION 15Φ

CONSC CAST # 53,81
 LATITUDE 53.81
 LONGITUDE 69.91
 DATE JD- 1736
 TIME (GMT) 1819
 DRY BULB (°C) 0.2
 WET BULB (°C) 2.5
 PRESSURE (mb) 07
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 243
 WIND SPD. (kts) 8
 CLOUD (amt) *
 WEATHER *
 BOTTOM DEPTH (m) 176Φ
 STA. NAME/ID 1729 Kudatson
 XI 28

SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 TIMES
 DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE
 JD/TIME 17
 PAR on Bridge (muEinstains m-2s-1)
 MAX. DEPTH = m

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	Tish DIC (MC)	Isotopes δ15N	32S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D.Sholl Radon	Devol 3-O2
			SALT	NUTS	O2-Mordy	O2 Temp											
139T	1740	✓	X165	1	147	1.9	✓	✓									
2	1600	✓		2	151	2.1	✓	✓									
3	1500	✓	X225	3	152	2.2	✓	✓									
4	1250	✓		4	153	2.3	✓	✓									
5	1000	✓	X231	5	171	2.6											
6	900	✓		6	132	2.7											
7	750	✓		7	114	3.0	✓	✓									
8	600	✓		8													
9	500	✓	X242	9	175	3.3											
10	400	✓		10	176	3.5											
11	300	✓		11	179	3.5	✓	✓									
12	250	✓		12	181	2.6											
13	200	✓		13	190	2.5											
14	175	✓		14													
15	150	✓		15	193	3.1											
16	125	✓		16			✓	✓									
17	100	✓		17	195	2.9	✓	✓									
18	75	✓		18			✓	✓									
19	50	✓		19													
20	40	✓		20													
21	30	✓		21													
22	20	✓		22	197	2.5											
23	10	✓		23													
24	0	✓		24	200	2.8	✓	✓									

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSOB I.D. 1HE07
 STATION DESIGNATION 151

CONSC CAST # 1605740.64N
 LATITUDE 17444.31W
 DATE JD= 01 MAY 07
 TIME (GMT) 2302
 DRY BULB 11.5
 WET BULB .
 PRESSURE 07
 SEA STATE *
 VISIBILITY *
 WIND DIRN. 261
 WIND SPD. 3
 CLOUD (amt) *
 WEATHER *
 BOTTOM DEPTH 2799
 STA. NAME/ID Knutson 1582
 XI 209

SBE 9+ TIMES
 DATA ON START DOWN
 PRI TEMP SN AT DEPTH
 SEC TEMP SN AT SURFACE
 PRI COND SN
 SEC COND SN
 FLUOR S/N
 PAR on Bridge (Einstein's m-2s-1)
 MAX. DEPTH = 2805 m

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	ALK (MC)	Tish DIC (MC)	Isotopes b15N	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D.Sholl Radon	Devol 3-O2
			SALT	NUTS	O2-Mordy										
1	2805			25	202	1.5									
2	2500			26	207	1.6									
3	2250			27											
4	2000			28	211	1.7									
5	1750			29											
6	1500			30	212	2.0									
7	1250			31	213	2.3									
8	1000			32	214	2.4									
9	900			33	214	2.7									
10	750			34	219	2.8									
11	600			35											
12	500			36	220	3.2									
13	400			37	222	3.2									
14	300			38	233	3.4									
15	200			39	234	3.3									
16	100			40	236	2.3									
17	75			41											
18	50			42	237	2.3									
19	40			48											
20	30			44											
21	20			55	235	2.5									
22	10			56											
23	0			57	243	2.7									
24															

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 USDB I.D. 1HE07
 STATION DESIGNATION 152

CONSC CAST # 161
 DEG 57.29
 MIN 98
 N
 LONGITUDE 175.14
 MIN 95
 W
 DATE JD= 0232
 DAY 11
 MO 7
 YR 07
 TIME (GMT) 0232
 HR 11
 MIN 7
 DRY BULB (°C) 1.7
 WET BULB (°C) .
 PRESSURE (mb) 06
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 215
 WIND SPD. (kts) 8
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 2465
 STA. NAME/ID P14-5

SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 TIMES DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE
 J0/TIME
 PAR on Bridge (Einstein's m-2s-1) = 1000
 PAR S/N 7202
 MAX. DEPTH = 100 m

FREQ	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devol
			notes	SALT	NUTS	O2-Mordy										
1	58				58							/				
2	37				59							/				
3	30				60							/				
4	22				61							/				
5	15				68							/				
6	7				69							/				
7	0				70							/				
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL: USCG Healy
 CRUISE ID: H10701
 PROJECT & LIG: BEST07
 STATION DESIGNATION: 152

CONSC CAST # 1625730.33 N
 LATITUDE 17514.38 W
 LONGITUDE 02 M A Y 07
 DATE JD= 0436
 TIME (GMT) 0.6
 DRY BULB (°C) 0.6
 WET BULB (°C) .
 PRESSURE (mb) * 05
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 256
 WIND SPD. (kts) 7
 CLOUD (amt) * * *
 WEATHER TYPE * * *
 BOTTOM DEPTH (m) 7459
 STA. NAME/ID P14-5

SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 TIMES
 DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE
 PAR S/N
 FLUOR S/N
 PAR on Bridge (Einstein's m-2s-1) = 79
 MAX. DEPTH = 3355 m

SEQ.	DEPTH	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	ALK (MC)	Tish DIC (MC)	Isotopes			Trace		Ray Prod	Masha N2/Ar	D. Shell Radon	Devol 3-02	REMARKS
			SALT	NUTS	02-Mordy				02 Temp	CHL.	015N	032S	gases					
1	3340		213	71?	003	1.6												
2	3250			72														
3	3000			73	24	1.8												
4	2750																	
5	2500																	
6	2250																	
7	2000																	
8	1750																	
9	1500																	
10	1250			80	50	2.5												
11	1000				59	2.7												
12	750				60	2.9												
13	500		*230		88	3.2												
14	400				89	3.4												
15	300				91	3.5												
16	200				92	3.5												
17	100				93	2.5												
18	75				92	2.5												
19	50				91	2.5												
20	40				90													
21	30																	
22	20																	
23	10		201		94	2.0												
24	0				94	2.8												

Notes on Surface Ice Conditions or proximity to ice edge

reagent #1
 1.1 ml/s
 Bothes
 32 37 39

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 USCG I.D. IHE07 **F E 2 L** STATION DESIGNATION 153

CONSC CAST # 59.89 LATITUDE 51.22 LONGITUDE 1704 TIME (GMT) 1844 DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY WIND DIRN. WIND SPD. CLOUD (amt) TYPE WEATHER BOTTOM DEPTH STA. NAME/ID

163 5759.73 N 17450.48 W 02 MAY 07 1844 -0.7 -1.7 09 7314 3613 3016 P144

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

DATA ON START DOWN AT DEPTH AT SURFACE

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	Tish DIC (MC)	Isotopes δ15N δ32S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D Sholl Radon	Devol 3-O2
			SALT	NUTS	O2-Mordy	O2 Temp										
1	3047		1204	1	003	1.5										
2	2750			2	024	1.5										
3	2500		1205	3	032	1.6										
4	2250			4	037	1.7										
5	2000		1210	5	039	1.7										
6	1750			6	050	1.9										
7	1500		1214	7	059	2.1										
8	1250			8	060	2.4										
9	1000			9	088	2.7										
10	750			10	089	3.0										
11	500			11	091	3.4										
12	400			12	092	3.6										
13	300			13												
14	250			14												
15	200			15												
16	150			16												
17	100			17												
18	75			18												
19	60			19												
20	50			20												
21	40			21												
22	20			22												
23	10			23												
24	0			24												

Notes on Surface Ice Conditions or Proximity to Ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSDB I.D. 1HE07 STATION DESIGNATION 154

CONSC CAST #	DEG	MIN	LONGITUDE	DEG	MIN	DATE JD=	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
164	58	30.0	174 25.1	18	W	02	M	A	Y	07	23	32	-1.9	.	13	*	*	029	13	*	*	147	14-3

SBE 9+ _____ TIMES _____ JD/TIME _____
 PRESS SN _____ DATA ON _____
 PRI TEMP SN _____ START DOWN _____
 SEC TEMP SN _____ AT DEPTH _____
 PRI COND SN _____ AT SURFACE _____
 SEC COND SN _____ PAR S/N _____
 FLUOR S/N _____
 PAR on Bridge (Einstein's m-2s-1) = _____
 MAX. DEPTH = 142 m

FIRE	DEPTH	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	Tish DIC (MC)	Isotopes δ15N δ32S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D. Soil Radon	Devol 3-O2
			SALT	NUTS	O2-Mordy	O2 Temp										
1	142			25	202	2.3		✓	✓							
2	125		21	26				✓	✓							
3	100			27				✓	✓							
4	75			28				✓	✓							
5	60			29				✓	✓							
6	50			30				✓	✓							
7	40			31				✓	✓							
8	30			32				✓	✓							
9	20			33				✓	✓							
10	10			34				✓	✓							
11	8			35	207	1.0		✓	✓							
12	0			36				✓	✓							
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy PROJECT & LEG BEST07 STATION DESIGNATION 155
 USCG Healy H10701 CRUISE ID H10701 BEST07 I.D. 1HE07

CONSC CAST # 1655844.62N 17412.38W 02 MAY 07 0125-2.8 14 00410 140714-36
 DEG MIN LONGITUDE DATE JD= MO YR HR MIN (GMT) DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY WIND DIRN. WIND SPD. CLOUD (amt) TYPE WEATHER BOTTOM DEPTH STA. NAME/ID
 TIME 03 JD/TIME 03

SBE 9+ PRESS SN _____ DATA ON _____
 PRI TEMP SN _____ START DOWN _____
 SEC TEMP SN _____ AT DEPTH _____
 PRI COND SN _____ AT SURFACE _____
 SEC COND SN _____ PAR S/N _____ FLUOR S/N _____
 REMARKS PAR on Bridge (uEinsteins m-2s-1) = 2340
 MAX. DEPTH = 135 m

SEQ.	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS			DOM	ALK (MC)	DIC (MC)	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devol
			SALT	NUTS	O2-Mordy										
1	135			37	*211	1.8									
2	100			38											
3	75			39											
4	60			40											
5	50			41											
6	40			F 42											
7	30			F 43											
8	20			F 44											
9	10			F 45											
10	8			F 46	*212	-0.5									
11	0			F 47											
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSDB ID. 1HE07 STATION DESIGNATION 156

CONSC CAST # 16759100.42 N 173554.99 W 03 MAY 07 0458-2.8

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

LATITUDE LONGITUDE DATE JD= TIME (GMT) DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY WIND DIRN. WIND SPD. CLOUD (amt) TYPE WEATHER BOTTOM DEPTH STA. NAME/ID

SBE 9+ TIMES DATA ON START DOWN AT DEPTH AT SURFACE PAR S/N FLUOR S/N

PRESS SN DATA ON JO/TIME

PRI TEMP SN START DOWN

SEC TEMP SN AT DEPTH

PRI COND SN AT SURFACE

SEC COND SN PAR S/N FLUOR S/N

REMARKS 302/RADON CAST

MAX. DEPTH = 120 m

SEQ.	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS				ALK (MC)	DIC (MC)	δ15N	δ32S	Trace gases	Micro Zoops	Ray Prod	Masha NZ/Ar	D. Sholl Radon	Devol 3-O2
			SALT	NUTS	O2-Mordy	O2 Temp										
1	120															
2	120															
3	100															
4	100															
5	80															
6	80															
7	60															
8	60															
9	50															
10	50															
11	50															
12	30															
13	30															
14	20															
15	20															
16	20															
17	10															
18	10															
19	10															
20	0															
21	0															
22	0															
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Heary CRUISE ID H10701 PROJECT & LEG BEST07 DSD8 I.D. 1HE07 STATION DESIGNATION 157

CONSC CAST # 26.65 LATITUDE 25.48 LONGITUDE DATE JD= 0927 TIME (GMT) 0932 DRY BULB (°C) 4.6 WET BULB (°C) 6.3 PRESSURE (mb) 18 SEA STATE * VISIBILITY * WIND DIRN. (deg) 334 WIND SPD. (kts) 7 CLOUD (amt) * WEATHER * BOTTOM DEPTH (m) 145 STA. NAME/ID 14-1

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

SBE 9+ PRESS SN DATA ON TIMES JD/TIME
 PRI TEMP SN START DOWN
 SEC TEMP SN AT DEPTH
 PRI COND SN AT SURFACE
 SEC COND SN PAR S/N FLUOR S/N

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	Tish DIC (MC)	Isotopes δ15N δ32S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D Sholl Radon	Devol 3-O2
			SALT	NUTS	O2-Mordy	O2 Temp										
1	2100 ✓		232	70			✓	✓								
2	80 ✓			71	216	1.2										
3	70 ✓			72			✓	✓								
4	60 ✓			73												
5	50 ✓			74			✓	✓								
6	40 ✓			75												
7	30 ✓			76			✓	✓								
8	20 ✓			77												
9	10 ✓			78			✓	✓								
10	0 ✓			79			✓	✓								
11				219		-1.8										
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSCB ID: 1HE07
 STATION DESIGNATION 158

CONSC CAST # 2135
 LATITUDE 50.43
 LONGITUDE 1219
 TIME (GMT) 1225-5.11
 DRY BULB (°C) -6.2
 WET BULB (°C) 93%

DEG 169
 MIN 59
 DEG 21
 MIN 33
 N
 TIME 1735
 DATA ON 1735
 START DOWN 1735
 AT DEPTH 1735
 AT SURFACE 1735
 DATE JD= 3 MAY 07
 HR 12
 MIN 25
 PRESSURE (mb) 218
 SEA STATE *
 VISIBILITY *
 WIND DIRN (deg) 322
 WIND SPD (kts) 9
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 111
 STA. NAME/ID 112X13-1

SBF 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE
 JO/TIME
 PAR on Bridge (Einstein's m-2s⁻¹)
 REMARKS
 MAX. DEPTH = m

SEQ.	DEPTH	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	δ15N	δ32S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D Sholl Radon	Devol 3-O2
			SALT	NUTS	O2-Mordy	O2 Temp											
1	107		707	80	220	0.5											
2	80			81													
3	26			82													
4	60			83													
5	50			84													
6	40			85													
7	30			86													
8	20			87													
9	10			88													
10	8			89													
11	2																
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL: USCG Healy
 CRUISE ID: H10701
 PROJECT & LEG: BEST07
 DSDG I.D.: THE07
 STATION DESIGNATION: 159

CONSC CAST # 15.84
 LATITUDE 15.84
 DEGREE MIN 15 18 5 N
 LONGITUDE 159.2
 DEGREE MIN 174 15 19 7 W
 DATE JD= 05 MAY 07
 TIME (GMT) 1448
 DRY BULB (°C) 31.3
 WET BULB (°C) 25.1
 PRESSURE (mb) 1019
 SEA STATE * * *
 VISIBILITY * * *
 WIND DIRN. (deg) 313
 WIND SPD. (kts) 6
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 119
 STA. NAME/ID 121 XJ3-2

SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 TIMES DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE
 JD/TIME
 PAR on Bridge (Einstein's m-2s-1)
 FLUOR S/N
 MAX DEPTH = m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	Isotopes δ15N δ32S	Trace gases Zoops	Micro Ray Prod	Masha N2/Ar	D.Sholl Radon	Devol 3-O2
			SALT	NUTS	O2-Mor'dy	O2 Temp									
1	117	✓		1	233										
2	100	✓		2	234										
3	75	✓		3											
4	60	✓		4											
5	50	✓		5											
6	40	✓		6											
7	30	✓		7											
8	20	✓		8											
9	10	✓		9											
10	0	✓		10											
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSOB ID: 1HE07
 STATION DESIGNATION 145

CONSC CAST #	DEG	MIN	LONGITUDE	DEG	MIN	DATE JD=	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					
12159	11	31	N	174	37	38	W	4	3	M	A	Y	0	7	18	02	-2	7-4	6	20			172	2			124	XI3-3

SBE 9+ _____
 PRESS SN _____
 PRI TEMP SN _____
 SEC TEMP SN _____
 PRI COND SN _____
 SEC COND SN _____
 DATA ON _____
 START DOWN _____
 AT DEPTH _____
 AT SURFACE _____
 TIMES _____
 JD/TIME _____
 PAR on Bridge (Einstein's m-2s-1) _____
 MAX. DEPTH = _____ m

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	ALK (MC)	Tish DIC (MC)	Isotopes 815N 832Si	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D Sholl Radon	Devol 3-O2
			SALT	NUTS	02-Mordy										
1	119	119		11	230	1.2									
2	119	119													
3	100	100													
4	80	80													
5	80	80													
6	60	60													
7	50	50													
8	40	40													
9	40	40													
10	30	30													
11	23	23	58												
12	20	20													
13	20	20													
14	15	15	59												
15	12	12	510												
16	10	10													
17	9	9	511												
18	8	8													
19	6	6	512												
20	3	3	513												
21	0	0	514												
22	0	0													
23	0	0													
24	0	0													

Notes on Surface Ice Conditions or proximity to ice edge
 Filter 50m or above

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSDB I.D. 1HF07
 STATION DESIGNATION 161

CONSC CAST # 1725904
 DEG 259.04
 MIN 61.1
 N
 LONGITUDE 17507.21
 MIN 21
 W
 DATE JD= 03
 MO MAY
 YR 07
 TIME (GMT) 2208-0.7
 HR 22
 MIN 08
 DRY BULB (°C) 7
 WET BULB (°C) .
 PRESSURE (mb) 19
 SEA STATE *
 VISIBILITY *
 WIND DIRN. 190
 WIND SPD. (kts) 5
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 131
 STA. NAME/ID XE3-4

SBE 9+ TIMES
 DATA ON _____
 START DOWN _____
 AT DEPTH _____
 AT SURFACE _____
 SEC COND SN _____
 PAR S/N FLUOR S/N
 PAR on Bridge (Einstein's m-2s-1) = _____
 REMARKS
 MAX. DEPTH = 126 m

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	Tish DIC (MC)	Isotopes δ15N δ32S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D. Soil Radon	Devol 3-O2
			SALT	NUTS	O2-Mordy	O2 Temp										
1	126			26	152	1.8										
2	100		220	27												
3	75			28												
4	60			29												
5	50			30												
6	40			31												
7	30			F 32												
8	20			F 33												
9	10			F 34												
10	8			F 35	153											
11	0			F 36												
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge 3-4/10 scattered flocs,

VESSEL: USCG Healy
 CRUISE ID: H10701
 PROJECT & LEG: BEST07
 DSOB I.D.: 1HE07
 STATION DESIGNATION: 162

CONSC CAST #	DEG	MIN	LONGITUDE	DATE	JD	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 TYPE	BOTTOM DEPTH (m)	STA. NAME/ID	
1735859	11	0	N	17532	57	W	04	M	A	Y	07	0009	0.9			19	270	9			130	XIIS-S

SBE 9+
 PRESS SN: _____
 PRI TEMP SN: _____
 SEC TEMP SN: _____
 PRI COND SN: _____
 SEC COND SN: _____
 TIMES: _____
 DATA ON: _____
 START DOWN: _____
 AT DEPTH: _____
 AT SURFACE: _____
 PAR S/N: _____
 FLUOR S/N: _____
 PAR on Bridge (Einstein's m-2s-1) = 1420
 MAX. DEPTH = 128 m

FIREO SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	Tish DIC (MC)	Isotopes δ15N δ32S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D.Sholl Radon	Devol 3-O2
			SALT	NUTS	O2-Mordy	O2 Temp										
1	128			37	159	1.6										
2	100			38												
3	75			39												
4	60			40F												
5	50			41F												
6	40			42F												
7	30			43F												
8	20			44F												
9	10			45F												
10	8			46F	161	0.7										
11	0			47F												
12				227												
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSDB I.D. 1HE07
 STATION DESIGNATION 163

CONSC CAST # 1745853.38N
 LATITUDE 175537.73W
 LONGITUDE 04MAY07
 DATE JD= 0156
 TIME (GMT) 1.6
 DRY BULB (°C) 19
 WET BULB (°C) 19
 PRESSURE (mb) * *
 SEA STATE * *
 VISIBILITY * *
 WIND DIRN. (deg) 291
 WIND SPD. (kts) 10
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 132
 STA. NAME/ID XTS-6

SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 TIMES DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE
 JD/TIME
 PAR on Bridge (uEinstein's m-2s-1) = 1350
 REMARKS
 MAX. DEPTH = 127 m

FIRID	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS			DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devol
			SALT	NUTS	O2-Mordy										
1	127		*233	48	*121	1.5									
2	100			49											
3	75			50											
4	60			51											
5	50			F 52											
6	40			F 53											
7	30			F 54											
8	20			F 55											
9	10			F 56											
10	8			F 57	*172	1.7									
11	0			F 58											
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

58 also on next cast

720

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 PROJECT & LEG BEST07
 STATION DESIGNATION 164

CRUISE ID H10701
 DSDB I.D. 1HE07

CONSC CAST # 1755842.43 N
 LATITUDE 17622.19 W
 DATE JD= 050204 MAY 07
 TIME (GMT) 0204
 DRY BULB 0.4
 WET BULB .
 PRESSURE 19
 SEA STATE *
 VISIBILITY *
 WIND DIRN. 307
 WIND SPD. 11
 CLOUD (amt) *
 WEATHER *
 BOTTOM DEPTH 132
 STA. NAME/ID 164

SBE 9+ TIMES DATA ON
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 J/D/TIME
 AT SURFACE
 AT DEPTH
 PAR S/N
 FLUOR S/N
 PAR on Bridge (Einstein's m-2s-1)
 REMARKS
 MAX. DEPTH = 123 m

FIRID SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				CHL.	DOM	Melissa ALK (MC)	Tish DIC (MC)	Isotopes δ15N δ32S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D. Soil Radon	Devol 3-02
			SALT	NUTS	O2-Mordy	O2 Temp											
1	123		208	58	174	18											
2	100			59													
3	75			60													
4	60			61													
5	50			68F													
6	40			69F													
7	30			90F													
8	20			91F													
9	10			92F													
10	8			93F	175	1.8											
11	0			94F													
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSOB I.D. 1HE07
 STATION DESIGNATION 165

CONSC CAST # 0118
 LATITUDE 54 88
 DEGREE MIN 17 54
 DEGREE MIN 17 54
 DATE JD- 04 MAY 07
 TIME (GMT) 08 16
 DRY BULB 2.2
 WET BULB 5.9
 PRESSURE 1019
 SEA STATE *
 VISIBILITY *
 WIND DIRN. 29
 WIND SPD. 2
 CLOUD (amt) *
 WEATHER *
 BOTTOM DEPTH 135
 STA. NAME/ID X14-1

SBE 9+ TIMES DATA ON
 PRESS SN DATA ON
 PRI TEMP SN START DOWN
 SEC TEMP SN AT DEPTH
 PRI COND SN AT SURFACE
 SEC COND SN PAR S/N
 FLUOR S/N

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			CHL.	DOM	ALK (MC)	DIC (MC)	isotopes 015N 03221	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D.Sholl Radon	Devol 3-02
			SALT	NUTS	02-Mordy											
1	131		95	176	17											
2	120		96													
3	100		97													
4	75		98													
5	50		99													
6	40		100													
7	30		101													
8	20		102													
9	15		103													
10	8			179	13											
11	0		104													
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSOB I.D. 1HE07
 STATION DESIGNATION 166

CONSC CAST # 1416
 LATITUDE 26.12
 LONGITUDE 103.2
 DATE JD= MAY 07 1536-0.8-2.219
 TIME (GMT) 1532
 DRY BULB (°C) 8-2.219
 WET BULB (°C) 247
 PRESSURE (mb) 3
 SEA STATE * * *
 VISIBILITY * * *
 WIND DIRN. (deg) 3
 WIND SPD. (kts) * * *
 CLOUD (amt) * * *
 TYPE * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 139
 STA. NAME/ID 139X14-2

SBF 9+ _____
 PRESS SN _____
 PRI TEMP SN _____
 SEC TEMP SN _____
 PRI COND SN _____
 SEC COND SN _____
 TIMES _____
 DATA ON _____
 START DOWN _____
 AT DEPTH _____
 AT SURFACE _____
 JO/TIME _____
 PAR on Bridge (Einstein's m-2s-1) = _____
 MAX. DEPTH = _____ m

SEQ.	DEPTH	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	ALK (MC)	DIC (MC)	δ15N	δ32S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D Sholl Radon	Devol 3-O2
			SALT	NUTS	O2-Mordy											
1	132	✓		165	181	1.1										
2	160	✓		166												
3	35	✓		107												
4	50	✓		108												
5	40	✓		109												
6	30	✓		110												
7	20	✓		111												
8	15	✓		112												
9	8	✓		113												
10	8	✓		113												
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge
 Road gearbar in T/S, O2 at ~95m

VESSEL USCG Healy CRUISE ID 110701 PROJECT & LEG BESTOZ OSDB I.D. 1HE07 STATION DESIGNATION

CONSC CAST # 14.11 DEGREE MIN 14.10 N DEGREE MIN 26.21 LONGITUDE DATE JD= 1222 TIME (GMT) 1222 DRY BULB 93% WET BULB PRESSURE (mb) 18 SEA STATE * * VISIBILITY * * WIND DIRN. (deg) 178 WIND SPD. (kts) 6 CLOUD (amt) * * WEATHER * * BOTTOM DEPTH (m) 139 STA. NAME/ID 139 XI 4-3

SBE 9+ PRESS SN DATA ON JD/TIME PARI TEMP SN START DOWN PRC TEMP SN AT DEPTH PRC COND SN AT SURFACE SEC COND SN PAR S/N FLOOR S/N

FIRD SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	Isotopes b15N b32S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D.Sholl Radon	Devol 3-02
			SALT	NUTS	O2-Mordy	O2 Temp										
1	135	✓		114	193	0.9	✓									
2	135	✓		115												
3	108	✓		111												
4	80	✓		117			✓									
5	80	✓														
6	58	✓		118												
7	46	✓		119			✓									
8	46	✓														
9	30	✓		1204			✓									
10	23	✓		1214												
11	20	✓		1224			✓									
12	20	✓														
13	15	✓		1234												
14	12	✓		1244												
15	16	✓		1254												
16	9	✓		1264												
17	8	✓			195	-0.9										
18	6	✓		1274												
19	3	✓		1284			✓									
20	0	✓			197	-0.8										
21	0	✓		1294												
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID 110701
 PROJECT & LEG BEST07
 DSOB I.D. 11E07
 STATION DESIGNATION 166

CONSC CAST # 1795914.20N
 DEG MIN
 LONGITUDE 17526.11W
 DATE JD= 94 MAY 07
 DAY MO YR
 TIME (GMT) 1354-0.6-1.218
 HR MN
 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 Box 14-2

SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 TIMES
 DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE
 JD/TIME
 PAR on Bridge (Einstein's m-2s-1) =
 REMARKS
 MAX. DEPTH = m

FREQ.	DEPTH	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D-Sholl	Devol
			SALT	NUTS	O2-Mordy	O2 Temp										
1	134														✓	
2	110														✓	
3	115														✓	
4	85														✓	
5	80														✓	
6	60														✓	
7	60														✓	
8	40														✓	
9	40														✓	
10	40														✓	
11	30														✓	
12	30														✓	
13	30														✓	
14	2nd 18														✓	
15	18														✓	
16	10														✓	
17	10														✓	
18	5														✓	
19	5														✓	
20	5														✓	
21	0														✓	
22	0														✓	
23	0														✓	
24	2nd 18														✓	

first 10 bottles analyzed for nit

Notes on Surface Ice Conditions or proximity to ice edge

2nd 18 - did not observe prep work
 pit did back in water to get 18m sample
 Fine bottle 14 + 24

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSDB I.D. 1HE07
 STATION DESIGNATION STN166 CONTINUATION of CAST 179

CONSC CAST # 18059
 LATITUDE 14.73 N
 DEGREE MIN
 LONGITUDE 17524.92 W
 DEGREE MIN
 DATE JD= 04 MAY 07
 DAY MO YR
 TIME (GMT) 1418-0.6-1.218
 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) 136
 STA. NAME/ID K249

SBE 9+ _____
 PRESS SN _____
 PRI TEMP SN _____
 SEC TEMP SN _____
 PRI COND SN _____
 SEC COND SN _____
 TIMES DATA ON _____
 START DOWN _____
 AT DEPTH _____
 AT SURFACE _____
 PAR S/N _____
 FLUOR S/N _____
 REMARKS: more from 179
 last only from
 down till 18m
 to organic matter
 bottle for Rodom/302

FIRE	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS				DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D. Sholl	Devol
			SALT	NUTS	O2-Wordy	O2 Temp										
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSOB I.D. THE07
 STATION DESIGNATION 167

CONSC CAST # 27.47
 LATITUDE 56.45
 DEGREE MIN 27.13 N
 DEGREE MIN 45.44 W
 DATE JD= 07 MAY 07
 TIME (GMT) 1624
 DRY BULB (°C) 1.2
 WET BULB (°C) -1.6
 PRESSURE (mb) 17
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 192
 WIND SPD. (kts) 8
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 130
 STA. NAME/ID 130X14-3

SBE 9+ _____
 PRESS SN _____
 PRI TEMP SN _____
 SEC TEMP SN _____
 PRI COND SN _____
 SEC COND SN _____
 TIMES DATA ON _____
 START DOWN _____
 AT DEPTH _____
 AT SURFACE _____
 JO/TIME _____
 PAR on Bridge (Einsteins m-2s-1) = _____
 REMARKS _____
 MAX. DEPTH = _____ m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	δ15N	δ32S	Trace gases	Micro Zoops	Ray Prod	Masha NZ/Ar	D.Sholl Radon	Devol 3-O2
			SALT	NUTS	O2-Mordy	O2 Temp											
1	126		216	1	200	0.9											
2	100			2													
3	75			3													
4	60			4													
5	50			5													
6	40			6													
7	30			7													
8	20			8													
9	10			9													
10	8			10		003	-1.6										
11	2			10													
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Notes on Surface Ice Conditions or proximity to ice edge
 Filter opto 40

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSDR I.D. 1HE07
 STATION DESIGNATION 168

CONSC CAST # 40.63
 LATITUDE 174
 LONGITUDE 28.57
 DATE JD= 1845
 TIME (GMT) 1850
 DRY BULB (°C) -1.2
 WET BULB (°C) -1.5
 PRESSURE (mb) 1016
 SEA STATE * * *
 VISIBILITY * * *
 WIND DIRN. (deg) 193
 WIND SPD. (kts) 10
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 118
 STA. NAME/ID I4-4

DEG MIN DEG MIN DEG MIN DAY MO YR HR MIN
 18 25 9 40. 7 2 N 1 7 4 2 8. 4 5 W 0 4 M A Y 0 7 1 8 5 0 - 1. 2 - 1. 5 1 6
 SBE 9+ TIMES DATA ON JD/TIME
 PRESS SN
 PRI TEMP SN START DOWN
 SEC TEMP SN AT DEPTH
 PRI COND SN AT SURFACE
 SEC COND SN PAR S/N
 FLUOR S/N
 PAR on Bridge (Einsteins m-2s-1) =
 MAX DEPTH = m

FIRD	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS			DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D. Soil	Devol
			SALT	NUTS	02-Mordy										
1	111	✓	222	✓	114	24	0.6								
2	160	✓			124										
3	75	✓			13										
4	60	✓			14										
5	50	✓			154										
6	40	✓			164										
7	30	✓			174										
8	20	✓			184										
9	10	✓			194										
10	8	✓			32		-1.6								
11	0	✓			208		37								
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG RES107
 DSOB I.D. 1HE07
 STATION DESIGNATION 169

CONSC CAST # 1835955
 DEG 10 N
 MIN 17401
 LONGITUDE MIN 12 W
 DATE JD= 04 MAY 07
 TIME (GMT) 2139
 DRY BULB 1.1
 WET BULB .
 PRESSURE 15
 SEA STATE *
 VISIBILITY *
 WIND DIRN. 230
 WIND SPD. 10
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 102
 STA. NAME/ID MW11

SBE 9+ TIMES
 PRESS SN DATA ON
 PRI TEMP SN START DOWN
 SEC TEMP SN AT DEPTH
 PRI COND SN AT SURFACE
 SEC COND SN PAR S/N
 FLUOR S/N
 PAR on Bridge (Einsteins m-2s-1)
 REMARKS
 MAX. DEPTH = 97 m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	ALK (MC)	DIC (MC)	δ15N	δ32S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D.Sholl Radon	Devol 3-O2
			SALT	NUTS	O2-Mordy											
1	97		*228	21	*039											
2	75			22												
3	60			23F												
4	50			24F												
5	40			25F												
6	30			26F												
7	20			27F												
8	10			28F												
9	8			29F	*050											
10	0			30F												
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge
 5/10's - very close to 9/10's behind us + can see open water ahead

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSDR I.D. 1HE07
 STATION DESIGNATION 170

CONSC CAST # 1845953.81N
 DEG MIN
 LONGITUDE 17436.78W
 DEG MIN
 DATE JD= 05 MAY 07
 DAY MO YR
 TIME (GMT) 0002-04
 HR MIN
 DRY BULB (°C)
 WET BULB (°C)
 PRESSURE (mb) * * 114
 SEA STATE * *
 VISIBILITY * *
 WIND DIRN. (deg) 219
 WIND SPD. (kts) 9
 CLOUD (amt) * * *
 TYPE * *
 WEATHER * *
 BOTTOM DEPTH (m) 113M
 STA. NAME/ID 112

SBE 9+ TIMES DATA ON
 PRESS SN START DOWN
 PRI TEMP SN AT DEPTH
 SEC TEMP SN AT SURFACE
 PRI COND SN
 SEC COND SN
 PAR S/N
 FLUOR S/N
 PAR on Bridge (Heinsteins m-2s-1) = 1450
 MAX. DEPTH = 108 m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	ALK (MC)	DIC (MC)	Melissa	Tish	Isotopes b15N b32S	Trace gases Zoops	Micro Ray	Masha N2/Ar	D.Sholl Radon	Devol 3-02
			SALT	NUTS	O2-Mordy											
1	108			31	*059	D.6										
2	75			32												
3	60			F33												
4	50			F34												
5	40			F35												
6	30			F36												
7	20			F37												
8	10			F38												
9	8			F39	*060	-1.6										
10	0			F40												
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSDR I.D. 1HE07 STATION DESIGNATION 171

CONSC CAST #	DEG	MIN	LONGITUDE	DEG	MIN	DATE JD =	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	
1855954	11	0	N	17512	24	05	M	A	Y	07	02	12	0.2		14	*	*	240	9	*	*		121	M-113

SBE 9+
 PRESS SN _____ DATA ON _____ JD/TIME _____
 PRI TEMP SN _____ START DOWN _____
 SEC TEMP SN _____ AT DEPTH _____
 PRI COND SN _____ AT SURFACE _____
 SEC COND SN _____ PAR S/N _____
 FLUOR S/N _____
 PAR on Bridge (Heinzeis m-2s-1) = 1510
 MAX DEPTH = 116 m

SEQ.	DEPTH	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	Isotopes	Trace gases	Micro Zoops	Ray			D.Sholi	Devol
			SALT	NUTS	O2-Mordy	O2 Temp							Chl.	Melissa	Tish		
1	-116		202	41	088	0.6											
2	-80			42													
3	-60			43													
4	-50			44													
5	-40			45													
6	-30			46													
7	-20			47													
8	-10			48													
9	-8			49		099	-1.3										
10	0			50													
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSDR I.D. 1HE07 STATION DESIGNATION 172

CONSC CAST # 1865953.88N 17547.76W 05 MAY 07 0426-0.11.13 23210 130M-14

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

SBE 9+ TIMES DATA ON START DOWN AT DEPTH AT SURFACE

PRI TEMP SN SEC TEMP SN PRI COND SN

DATE JD= MO YR

PAR on Bridge (Einstein's m-2s-1) = 334

REMARKS

MAX. DEPTH = 26 m

SEQ.	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS			DOM	ALK (MC)	DIC (MC)	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devol
			SALT	NUTS	02-Mordy										
1	126			S1	091	0.7									
2	100			S2											
3	75			S3											
4	60			S4											
5	50			S5											
6	40			S6											
7	30			S7											
8	20			S70											
9	13			S71	092	-1.3									
10	10			S72											
11	0			S73											
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSOB I.D. 1HE07
 STATION DESIGNATION 173

CONSC CAST # 1875953.85 N
 DEG MIN
 LATITUDE
 DEG MIN
 LONGITUDE
 DATE JD =
 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) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m)
 STA. NAME/ID 141 MIN -115

SBE 9+ TIMES
 PRESS SN DATA ON
 PNI TEMP SN START DOWN
 SEC TEMP SN AT DEPTH
 PNI COND SN AT SURFACE
 SEC COND SN PAR S/N
 FLUOR S/N
 PAR on Bridge (Einstein's m-2s-1) =
 REMARKS
 MAX. DEPTH = 136 m

SEQ.	DEPTH	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	Tish DIC (MC)	Isotopes 61SN 63Zn	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D. Soil Radon	Devol 3-O2
			SALT	NUTS	O2-Mordy	O2 Temp										
1	136		223	74	093	1.0										
2	120			75												
3	100			76												
4	80			77												
5	60			78												
6	50			79												
7	40			80												
8	30			81												
9	20			82												
10	10			83												
11	8			84												
12	D															
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSDB I.D. 1HE07
 STATION DESIGNATION 174

CONSC CAST # 15659
 DEG 59 MIN 53
 LATITUDE 84 N
 DEG 17 MIN 45
 LONGITUDE 81 W
 DATE JD = 05 MAY 07
 TIME (GMT) 1020
 DRY BULB 7
 WET BULB .
 PRESSURE 11
 SEA STATE *
 VISIBILITY *
 WIND DIRN. 293
 WIND SPD. 18
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 136
 STA. NAME/ID MN116

SBE 9+ _____
 PRESS SN _____
 PRI TEMP SN _____
 SEC TEMP SN _____
 PRI COND SN _____
 SEC COND SN _____
 TIMES _____
 DATA ON _____
 START DOWN _____
 AT DEPTH _____
 AT SURFACE _____
 JD/TIME _____
 PAR on Bridge (uEinsteins m-2s-1) = _____
 REMARKS _____
 MAX. DEPTH = _____ m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			FLUOR S/N	ALK (MC)	Tish	Isotopes	Trace	Micro	Ray	Masha	D. Snoll	Devol
			SALT	NUTS	02-Mordy										
1	Bot 1			185	118										
2	10d			186	118										
3	95			187	118										
4	95			188	118										
5	50			189	118										
6	40			114	115										
7	30			115	115										
8	23			116	116										
9	20			117	117										
10	19			118	118										
11	10			119	119										
12	8			120	120										
13	8			120	120										
14	0			121	121										
15	0			121	121										
16	0			121	121										
17															
18															
19															
20															
21															
22															
23															
24															

Notes on Surface Ice Conditions or proximity to ice edge

S142 to 20

23
12
0

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSD8 ID. 1HE07 STATION DESIGNATION 175

CONSC 58.94 36.24
 CAST # 1895953.96N 177736.18W 05 MAY 07 1252 98%
 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

1895953.96N 177736.18W 05 MAY 07 1300 0.3 -0.1 11 259 18 139 138 MN 17

SBE 9+ TIMES DATA ON START DOWN AT DEPTH AT SURFACE
 PRESS SN DATA ON
 PRI TEMP SN START DOWN
 SEC TEMP SN AT DEPTH
 PRI COND SN AT SURFACE
 SEC COND SN PAR S/N FLUOR S/N

SEQ.	DEPTH	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	ALK (MC)	DIC (MC)	b15N	b32Z	gases	Micro Zoops	Ray Prod	Masha N2/Ar	D.Sholl Radon	Devol 3-02
			SALT	NUTS	O2-Mordy											
1	132		859	122	207	1.4										
2	160			123												
3	75			124												
4	52			125												
5	46			126												
6	36			127												
7	20			128												
8	16			129												
9	8			212		-1.2										
10	0			130												
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge
 ice near station - first time within line

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 STATION DESIGNATION
 DSD8 I.D. 1HE07
 176

CONSC CAST #
 LATITUDE
 DEG MIN
 19 06 01 11.26 N
 DEG MIN
 177 14.48 W
 DATE JD=
 DAY MO YR
 05 MAY 07
 TIME (GMT)
 HR MIN
 16 02 -0.4
 DRY BULB (°C)
 WET BULB (°C)
 PRESSURE (mb)
 10
 SEA STATE
 VISIBILITY
 WIND DIRN. (deg)
 248
 WIND SPD. (kts)
 10
 CLOUD (amt) TYPE WEATHER
 BOTTOM DEPTH (m)
 1420
 STA. NAME/ID
 L2-1

SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 TIMES
 DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE
 JD/TIME
 PAR on Bridge (uinstens m-2s-1) =
 REMARKS
 Good
 MAX. DEPTH = m

SEQ.	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS			DOM	ALK (MC)	TSH	DIC (MC)	Isotopes			Trace	Micro	Ray	Masha	D.Sholl	Devol
			SALT	NUTS	O2-Mordy					O2 Temp	CHL.	013N						
1	Bot	✓																
2	100	✓																
3	75	✓																
4	50	✓																
5	46	✓																
6	30	✓																
7	23	✓																
8	20	✓																
9	12	✓																
10	10	✓																
11	8	✓																
12	6	✓																
13	10	✓																
14	0	✓																
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Notes on Surface Ice Conditions or proximity to ice edge

Logels

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 OSD8 ID: 1HE07 STATION DESIGNATION 177

CONSC CAST # 1916028.30 N 17653.32 W 05 MAY 07 2011 - 0.7 10 267 7 139 DC 2-2

DEG MIN DEG MIN DATE JD= 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

SBE 9+ TIMES DATA ON START DOWN AT DEPTH AT SURFACE PAR S/N 209

PAR on Bridge (Einstein's m-2s-1) =

SEC COND SN FREQ DEPTH ROSETTE notes SALT NUTS O2-Mordy O2 Temp CHL. DOM ALK (MC) DIC (MC) b15N b32z1 Trace gases Micro Zoops Prod Mashta D.Sholl Devol

SEQ.	DEPTH	ROSETTE	notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	b15N	b32z1	Trace gases	Micro Zoops	Prod	Mashta	D.Sholl	Devol	
1	134			234	13	*	216	0.7												
2	100				14															
3	80				15															
4	60				16															
5	50				17															
6	40				18															
7	30				19															
8	20				20															
9	10				21		219	-1.2												
10	8				22															
11	0																			
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL: USCG Healy | CRUISE ID: H10701 | PROJECT & LEG: BEST07 | DSDB I.D.: 1HE07 | STATION DESIGNATION: 178

CONSC CAST # 1926044.30N 17632.60W | DATE: 06 MAY 07 | TIME (GMT): 0123 | DRY BULB: 0.0 | WET BULB: | PRESSURE: 11 | SEA STATE: | VISIBILITY: | WIND DIRN: 302 | WIND SPD: 8 | CLOUD (amt): | WEATHER: | BOTTOM DEPTH: 123 | STA. NAME/ID: 1R2D12-3

SBE 9+ | TIMES: 1 | JO/TIME: | DATA ON: | START DOWN: | AT DEPTH: | AT SURFACE: | PAR on Bridge (uEinstein m-2s-1): | MAX. DEPTH = 119 m

SEC. DEPT	DEPTH	ROSETTE notes	SAMPLE BOTTLE NUMBERS				FLUOR S/N											
			SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D. Sholl	Devol	
1	-119			23	220	0.6												
2	-100		235	24														
3	-80			25F														
4	-60			26F														
5	-50			27F														
6	-40			28F														
7	-30			29F														
8	-20			30F														
9	-10			31F														
10	0			32F	222	-1.7												
11	0			33F														
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy PROJECT & LEG BEST07 DSD8 I.D. 1HE07 STATION DESIGNATION 179

CRUISE ID H10701

CONSC CAST # 1936102.94 N DEGREE MIN LONGITUDE 17611.06 W DEGREE MIN DATE JD = 06 MAY 07 TIME (GMT) 0424-0.5 DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY WIND DIRN. (deg) WIND SPD. (kts) CLOUD (amt) TYPE WEATHER BOTTOM DEPTH (m) STA. NAME/ID 112DL2-4

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

TIMES DATA ON START DOWN AT DEPTH AT SURFACE

PAR on Bridge (Einstein's m-2s-1) = 0.2

FLUOR S/N MAX. DEPTH = 108 m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	ISOTOPES	TRACE gases	MICRO Zoops	RAY Prod	MASHA N2/Ar	D. Soil radon	Devol 3-02
			SALT	NUTS	O2-Mordy	O2 Temp										
1	108			34	233	0.2										
2	75			35												
3	60			F 36												
4	50			F 37												
5	40			F 38												
6	30			F 39												
7	20			F 40												
8	10			F 41												
9	8			F 42												
10	0			212	F 43	234	-1.6									
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 STATION DESIGNATION 180

DSDB ID: 1HE07
 CONSC CAST # 1946120.69 N 17548.14 W DATE JD = 06 MAY 07 0654-0.9
 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)
 11 11 273 7 100DL2-5

SBE 9+ TIMES DATA ON START DOWN AT DEPTH AT SURFACE JO/TIME
 PRESS SN PRI TEMP SN SEC TEMP SN PRI COND SN SEC COND SN
 PAR on Bridge (Einsteins m-2s-1) = 396
 REMARKS
 MAX. DEPTH = 96 m

FLUOR S/N

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	Isotopes δ15N δ32S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D. Snail Radon	Devol 3-02
			SALT	NUTS	O2-Mordy	O2 Temp										
1	96		*	44	* 235	-0.2										
2	75			45												
3	60			46												
4	50			* 47												
5	40			f 48												
6	30			f 49												
7	20			f 50												
8	10			f 51												
9	8			f 52	236	-1.8										
10	0			f 53												
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or Proximity to ice edge

Last time of 36-02 was never complete

VESSEL		CRUISE ID		PROJECT & LEG		SDS# ID		STATION DESIGNATION											
USCG Healy		H10701		BEST07		1HE07		181											
CONSC CAST #	DEG	MIN	SEC	DEG	MIN	SEC	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
1	95	61	37.37N	175	27	41	W 06 M A Y 07	1100	9-2.21	9-2.21				258	6			98	96DL2-6
2	82	✓		218	54	334	-1.7												
3	66	✓			55														
4	56	✓			56														
5	46	✓			52														
6	30	✓			58														
7	26	✓			59														
8	10	✓			60														
9	8	✓			61														
10	8	✓			61														
11	8	✓			61														
12	8	✓			61														
13	8	✓			61														
14	8	✓			61														
15	8	✓			61														
16	8	✓			61														
17	8	✓			61														
18	8	✓			61														
19	8	✓			61														
20	8	✓			61														
21	8	✓			61														
22	8	✓			61														
23	8	✓			61														
24	8	✓			61														

had trouble with acid dispenser - So 283-min elapsed

lugols

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL: USCG Healy
 CRUISE ID: H10701
 PROJECT & LEG: BEST07
 DSDR I.D.: 1HE07
 STATION DESIGNATION: 182

CONSC CAST # 54.76
 LATITUDE 54.76
 LONGITUDE 46.39
 DATE JD= 13 MAY 07
 TIME (GMT) 1325
 DRY BULB (°C) 2.3
 WET BULB (°C) 2.7
 PRESSURE (mb) 10
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 246
 WIND SPD. (kts) 7
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 83
 STA. NAME/ID 82012-7

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

TIMES
 DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE
 JD/TIME
 PAR on Bridge (Einstein's m-2s-1) =
 MAX. DEPTH = m

FIRID DEPTH ROSETTE notes SAMPLE BOTTLE NUMBERS DOM ALK (MC) DIC (MC) Isotopes 815N 832S Trace gases Micro Zoops Ray Prod Masna NZ/Ar D. Soil Radon Devol

SEQ.	DEPTH DESIRED	ROSETTE notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	815N	832S	Trace gases	Micro Zoops	Ray Prod	Masna NZ/Ar	D. Soil Radon	Devol 3-O2
1	78		224	68 f	152	-1.7												
2	62			69	153	-1.6												
3	50			70 f														
4	40			71 f														
5	30			72 f														
6	20			73 f														
7	10			74 f														
8	8			75 f	159	-1.7												
9	0																	
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 ISDB ID 11HE07
 STATION DESIGNATION 163-1

CONSC CAST # 12.15
 LATITUDE 45.13
 LONGITUDE 1557
 DATE JD= 1557
 TIME (GMT) 1557
 DRY BULB (°C) -2.9
 WET BULB (°C) -3.4
 PRESSURE (mb) 110
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 229
 WIND SPD. (kts) 8
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 75
 STA. NAME/ID 70MS8

SBE 9+ _____
 PRESS SN _____
 PRI TEMP SN _____
 SEC TEMP SN _____
 PRI COND SN _____
 SEC COND SN _____
 TIMES DATA ON _____
 START DOWN _____
 AT DEPTH _____
 AT SURFACE _____
 JD/TIME _____
 REMARKS _____

PAR on Bridge (Einstein's m-2s-1) = _____
 MAX. DEPTH = _____ m

FIRID	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS				DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devof
			SALT	NUTS	02-Mordy	02 Temp										
1	70	notes														
2	50															
3	40															
4	30															
5	20															
6	10															
7	8															
8	3	523 Mat														
9	3	524 Mat														
10	0															
11	0															
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL: USCG Healy
 CRUISE ID: H10701
 PROJECT & LEG: BEST07
 DSDB I.D.: 1HE07
 STATION DESIGNATION: 184

CONSC CAST # 198
 LATITUDE: 62 15.16 N
 LONGITUDE: 174 42.09 W
 DATE: 06 MAY 07
 TIME (GMT): 2001
 DRY BULB: -11.2
 WET BULB: .
 PRESSURE: (mb)
 SEA STATE: *
 VISIBILITY: *
 WIND DIRN: 200 (deg)
 WIND SPD: 10 (kts)
 CLOUD (amt): *
 WEATHER: *
 BOTTOM DEPTH: 0065 (m)
 STA. NAME/ID: 70M58 ICE-6

SBE 9+ # 638
 TIMES: DATA ON _____ JD/TIME _____
 START DOWN _____
 AT DEPTH _____
 AT SURFACE _____
 REMARKS: PAR on Bridge (ultrastens m-2s-1) = _____

PRI TEMP SN _____
 SEC TEMP SN _____
 PRI COND SN _____
 SEC COND SN _____
 PAR S/N _____
 FLUOR S/N _____
 MAX. DEPTH = _____ m

SEQ.	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devol
			SALT	NUTS	O2-Mordy	O2 Temp										
1	68		236	8 F	216*	-1.7										
2	60			9 F												
3	50			10 F												
4	40			11 F												
5	30			12 F												
6	20			13 F												
7	10			14 F												
8	8			15 F	214*	-1.5										
9	0			16 F												
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSDB ID: 1HE07
 STATION DESIGNATION 185

CONSC CAST # 199
 DEG 62.02.29 N
 LONGITUDE 174.40.18 W
 DATE JD= 06 MAY 07
 TIME (GMT) 2222-0.7
 DRY BULB (°C) .
 WET BULB (°C) .
 PRESSURE (mb) 09
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 080
 WIND SPD. (kts) 10
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 70
 STA. NAME/ID M57

SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 TIMES DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE
 JD/TIME
 PAR on Bridge (Einstein's m-2s-1) = 7360
 PAR S/N
 FLUOR S/N
 MAX. DEPTH = 70 m

FIRD DEPTH
 DESIRED
 ROSETTE notes
 SAMPLE BOTTLE NUMBERS
 SALT NUTS 02-Murdy 02 Temp CHL. DOM ALK (MC) DIC (MC) b15N b32Z Trace gases Micro Prod MasSha D.Sholl Devol
 Ray NZ/Ar Radon 3-02

SEQ.	DEPTH	ROSETTE notes	SALT	NUTS	02-Murdy	02 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	b15N	b32Z	Trace gases	Micro	Prod	MasSha	D.Sholl	Devol
1	70			17 F	172	-1.9												
2	60		211	18 F														
3	50			19 F														
4	40			20 F														
5	30			21 F														
6	20			22 F														
7	10			23 F														
8	8			24 F	74	-1.7												
9	0			25 F														
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Notes on Surface Ice Conditions or proximity to ice edge
 in the ice

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 OSDB ID. 1HE07 STATION DESIGNATION 186

CONSC CAST # 2006144.01N 17350.41W DATE JD= 07 MAY 07 TIME (GMT) 0207-01.6 DRY BULB (°C) 09 WET BULB (°C) 09 PRESSURE (mb) * * SEA STATE * * VISIBILITY * * WIND DIRN. (deg) 205 WIND SPD. (kts) 10 CLOUD (amt) * * * * WEATHER * * * * BOTTOM DEPTH (m) 71 STA. NAME/ID 70M54

SBE 9+ TIMES DATA ON START DOWN AT SURFACE AT DEPTH PAR S/N FLUOR S/N
 PRESS SN DATA ON JD/TIME
 PRI TEMP SN START DOWN
 SEC TEMP SN AT DEPTH
 PRI COND SN AT SURFACE
 SEC COND SN PAR S/N FLUOR S/N
 REMARKS PAR on Bridge (flinsteins m-2s-1) = 1230
 MAX DEPTH = 67 m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	b15N	b32N	Trace gases	Micro Zoops	Ray Prod	Mashna NZ/Ar	D.Sholl Radon	Devol 3-02
			SALT	NUTS	02-Mordy	02 Temp											
1	67			F 26	* 175												
2	50			F 27													
3	40			F 28													
4	30			F 29													
5	20			F 30													
6	10			F 31													
7	8			F 32	* 176												
8	0			F 33													
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 STATION DESIGNATION 187

OSDB ID: 1HE07

CONSC CAST # 20161114.67N 17342.71W 07 MAY 07 0523-0.9 09 1107 7870MST1

DEG MIN DEG MIN DATE JD= DAY MO YR HR MIN (GMT) DRY BULB (°C) WET BULB (°C) PRESSURE (mb) SEA STATE VISIBILITY (deg) WIND DIRN. (kts) WIND SPD. (kts) CLOUD (amt) TYPE WEATHER BOTTOM DEPTH (m) STA. NAME/ID

SSE 9+ TIMES DATA ON START DOWN AT DEPTH AT SURFACE JD/TIME

PRESS SN PRI TEMP SN SEC TEMP SN PRI COND SN SEC COND SN

FIRED DEPTH DEPTHTH ROSETTE SALT NUTS O2-Mordy O2 Temp CHL. DOM ALK (MC) DIC (MC) 015N 032E gases Trace Micro Ray Masha D. Snoll Devid

SEQ. DESIRED notes

SEQ.	DESIRED	notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	015N	032E	gases	Trace	Micro	Ray	Masha	D. Snoll	Devid
1	73			34 F	179	-17		✓											
2	60		244	35 F															
3	50			36 F															
4	40			37 F				✓											
5	30			38 F				✓											
6	20			39 F				✓											
7	10			40 F				✓											
8	8			41 F	181														
9	0			42 F				✓											
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Notes on Surface Ice Conditions or proximity to ice edge

MAX DEPTH = 73 m

REMARKS

USCG Healy 110701 PROJECT & LEG BEST07 OSDB ID: 110707 STATION DESIGNATION 188

VESSEL USCG Healy CRUISE ID 110701 PROJECT & LEG BEST07 OSDB ID: 110707 STATION DESIGNATION 188

CONC CAST # 45.52 LATITUDE 39.49 LONGITUDE 17339.42 DATE JO= 07 MAY 07 TIME (GMT) 0825 DRY BULB (°C) 10.5 WET BULB (°C) 10.7 PRESSURE (mb) 1010 SEA STATE * * VISIBILITY * * WIND DIRN. (deg) 242 WIND SPD. (kts) 9 CLOUD (amt) * * * * WEATHER * * * * BOTTOM DEPTH (m) 73 STA. NAME/ID 188

DEG 202 MIN 6045.54 N DEG 17339.42 W DAY 07 MO MAY YR 07 HR 08 MIN 29

SBE 9+ PRESS SN _____ PRI TEMP SN _____ SEC TEMP SN _____ PRC COND SN _____ TIMES DATA ON _____ START DOWN _____ AT DEPTH _____ AT SURFACE _____ JO/TIME _____

SEC COND SN _____ PAR S/N _____ FLUOR S/N _____ MAX DEPTH = m

FIRID	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS				DOM	Melissa	TISH	ISOTOPES		Trace	Micro	Ray	Masha	D. Shell	Devol
			SALT	NUTS	O2-Mordy	O2 Temp				CHL.	b15N						
1	69			43	190	-1.1											
2	50			44													
3	46			45													
4	30			46													
5	20			47													
6	10			48	193	-1.7											
7	0			49													
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Notes on Surface Ice Conditions or Proximity to Ice edge 4' thick Summertime by ice 1 Skip made hole - 100% ice coverage

REMARKS
PAR on Bridge (Heinsteins m-2s-1) =
D Oa

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07 1157
 DSDB I.D. 1HE07
 STATION DESIGNATION 139

CONSC CAST # 15.58
 LATITUDE 31.98
 DEGREE MIN DEGREE MIN DATE JD = 1047
 TIME (GMT) DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY WIND DIRN. WIND SPD. CLOUD (amt) TYPE WEATHER BOTTOM DEPTH STA. NAME/ID

2436015.58 N 17331.98 W 07 MAY 07 1105 (-0.7) 11 53514 6970145

SBE 9+ TIMES DATA ON START DOWN AT DEPTH AT SURFACE JO/TIME
 PRESS SN _____
 PRI TEMP SN _____
 SEC TEMP SN _____
 PRI COND SN _____
 SEC COND SN _____
 PAR S/N _____
 FLUOR S/N _____
 PAR on Bridge (Heinsteins m-2s-1) = _____
 REMARKS *power*
 MAX DEPTH = _____ m

SEQ.	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	Isotopes	Trace	Micro	Ray	Mashta	D.Sholl	Devol
			SALT	NUTS	O2-Mordy	O2 Temp										
1	50	<i>Seaker</i>		50	195-1.6											
2	46			51												
3	30			52												
4	20			53												
5	10			76												
6	8			77	197											
7	3			78												
8	0			79												
9	0															
10	0															
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edges:

VESSEL: USCG Healy
 CRUISE ID: H10701
 PROJECT & LEG: BEST07
 DSDB I.D.: 1HE07
 STATION DESIGNATION: 19D

CONSC CAST #: 59.46
 LATITUDE: 59.46
 LONGITUDE: 43.54
 DATE JD: 1457
 TIME (GMT): 1457
 DRY BULB: 99.6
 WET BULB: 99.6
 PRESSURE: 69
 SEA STATE: M5
 VISIBILITY: 6870M42

DEG MIN DEG MIN DAY MO YR HR MIN (°C) (°C) (mb) * * (deg) (kts) * * * * (m)
 204 59 58.88 N 17 24 3.65 W 07 MAY 07 15 29 -0.4 -0.5 12 257 12 6870M42

SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 TIMES DATA ON AT SURFACE AT DEPTH
 JD/TIME
 PAR on Bridge (Einstein's m-2s-1)
 REMARKS
 MAX. DEPTH = 62 m

SEQ.	DEPTHD	ROSETTE	SALT	NUTS	O2-Mody	O2 Temp	CHL.	DOM	ALK (MC)	Tish	Isotopes	Trace	Micro	Ray	Masha	D. Shell	Devol
1	62	-	231	80	200	-1.8											
2	56	✓		81													
3	46	-		82													
4	30	-		83													
5	20	-		84													
6	10	-		85													
7	8	-				202	-1.8										
8	8	-		86													
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Notes on Surface Ice Conditions or Proximity to Ice edge: Large Enderbuned blades, 95% covered, ship with marginator is

circled back to get span panel for etd
 pressure ridges thin w/ packing

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSOB I.D. 11E07 STATION DESIGNATION 191

CONSC CAST # DEG MIN LATITUDE DEG MIN LONGITUDE DATE JD- 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) TYPE WEATHER BOTTOM DEPTH (m) STA. NAME/ID

205 59 49.86 N 171 146.83 W 07 MAY 07 1943 -0.4 14 267 11 2470M39

SBE 9+ TIMES DATA ON START DOWN AT DEPTH AT SURFACE PAR S/N FLUOR S/N PAR on Bridge (Einstein's m²s⁻¹) = 202

PRI TEMP SN SEC TEMP SN PRI COND SN SEC COND SN

SEQ.	DEPTH	ROSETTE	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	Alk (MC)	DIC (MC)	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devol
1	69		*	1	*207	-1.1											
2	60			2													
3	50			3			✓										
4	40			4			✓										
5	30			5			✓										
6	20			6			✓										
7	10			7			✓										
8	8			8		*211	-1.8										
9	0			9			✓										
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 STATION DESIGNATION 192

CONSC CAST # 2065950.08 N DEGREE MIN LONGITUDE 17120.44 W DEGREE MIN DATE JD = 08 MAY 07 0222-0.11 TIME (GMT) DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY WIND DIRNL 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) 711CE-7

SBE 9+ PRESS SN PRI TEMP SN SEC TEMP SN PRI COND SN SEC COND SN TIMES DATA ON START DOWN AT DEPTH AT SURFACE JD/TIME REMARKS PAR on Bridge (Einstein's m-2s-1) = MAX DEPTH = m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	Melissa	Tish	Isotopes	Trace gases	Micro Zoops	Ray Prod	Masha NZ/Ar	D.Sholl Radon	Devol 3-02
			SALT	NUTS	O2-Mordy	O2 Temp												
1	69		10	11	*214	-1.7												
2	60		265	11														
3	50			12														
4	40			13														
5	30			14														
6	20			15														
7	10			16														
8	9			17		*216	-1.7											
9	0			18														
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSDB I.D. 1HE07
 STATION DESIGNATION 193

CONSC CAST # 2075950.88N
 DEG MIN
 LATITUDE 17032.29W
 DEG MIN
 LONGITUDE 0520-0.7
 DATE JD= 08 MAY 07
 DAY MO YR
 TIME (GMT) 0520
 HR MIN
 DRY BULB (°C) -0.7
 WET BULB (°C) .1
 PRESSURE (mb) 14
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 100
 WIND SPD. (kts) 8
 CLOUD (amt) * * *
 TYPE * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 65
 STA. NAME/ID XIS-1

SSE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 TIMES DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE
 JD/TIME
 PAR on Bridge (Einstein's m-2s-1) =
 REMARKS
 MAX. DEPTH = 60 m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	015N	032E	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D. Soil Radon	Devol 3-O2
			SALT	NUTS	02-Mordy	02 Temp											
1	50		19	20	219	-1.8											
2	40		254	19													
3	30			21 F													
4	20			22 F													
5	10			23 F													
6	8			24 F													
7	0			25 F	220	-1.7											
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Notes on Surface Ice Conditions or proximity to ice edge

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VESSEL USCG Healy PROJECT & LEG BEST07 STATION DESIGNATION 196

CRUISE ID H10701 DSDR ID: 1HE07

CONSC CAST # 34.58 LATITUDE 34.58 LONGITUDE 49.69 DATE JD= 1814 TIME (GMT) 1814 DRY BULB (°C) 7.7 WET BULB (°C) 99% PRESSURE (mb) 1012 SEA STATE * VISIBILITY * WIND DIRN. (deg) 308 WIND SPD. (kts) 15 CLOUD (amt) * WEATHER * BOTTOM DEPTH (m) 42 STA. NAME/ID 16-1

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

210 59 34.58 N 168 49.63 W 08 MAY 07 18 16-0.7-0.9 12 308 15 42 XIG-1

SBE 9+ TIMES DATA ON START DOWN AT DEPTH AT SURFACE JD/TIME PAR on Bridge (Einstein's m-25-1) =

PRESS SN PRI TEMP SN SEC TEMP SN PRI COND SN SEC COND SN

FIRED DEPTH ROSETTE SALT NUTS O2-Mordy O2 Temp CHL. DOM ALK (MC) DIC (MC) ISOTOPES Trace Micro Ray Masht D.Sholl Devol

SEQ.	DESIRED	notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	ISOTOPES	Trace	Micro	Ray	Masht	D.Sholl	Devol
1	38	-															
2	35	✓		1													
3	30	✓		2													
4	20	✓		3													
5	10	✓		4													
6	8	✓		5	243	-1.6											
7	0	✓															
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSOB I.D. 1HE07 STATION DESIGNATION 197

CONSC CAST # DEG MIN DEG MIN LONGITUDE DATE JD= 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

2115915.87N 16934.84W 8 MAY 07 2136-0.9 14 31918 58X16-2

SBE 9+ TIMES DATA ON START DOWN AT DEPTH AT SURFACE PAR S/N 02
 PRESS SN DATA ON JD/TIME
 PRI TEMP SN START DOWN
 SEC TEMP SN AT DEPTH
 PRI COND SN AT SURFACE
 SEC COND SN PAR S/N

FIREDD DEPTH ROSETTE SAMPLE BOTTLE NUMBERS FLUOR S/N

SEQ.	DEPTD	notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devol
1	54		*270	F 6		*200-1.8	✓										
2	40			F 7			✓										
3	30			F 8			✓										
4	20			F 9			✓										
5	10			F 10			✓										
6	8			F 11		*202-1.5											
7	0			F 12			✓										
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10Z01 PROJECT & LEG BEST07 DSD8 I.D. 1HE07 STATION DESIGNATION 198

CONSC CAST # DEG MIN LATITUDE DEG MIN LONGITUDE DATE JD= 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

2125856.94 N 170 20.67 W 09 MAY 07 0110 -01.7 17 100 13 70 70M 31

SBE 9+ TIMES DATA ON START DOWN AT SURFACE AT SURFACE

PAR on Bridge (Einfsteins m-25-1) = MAX. DEPTH = 66 m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	ALK (MC)	DIC (MC)	015N	032Zt	Trace gases	Micro Zoops	Ray Prod	Mashta N2/Ar	D.Sholl Radon	Devol 3-02
			SALT	NUTS	O2-Mordy											
1	610			13	195											
2	50			14												
3	40			15												
4	30			16 F												
5	20			17 F												
6	10			18 F												
7	8			19 F	197		-1.7									
8	0			20 F												
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSD8 I.D. 1HE07 STATION DESIGNATION 199

CONSC CAST # DEG MIN LATITUDE DEG MIN LONGITUDE DATE JD = 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

213 58 27.78 N 120 39.90 W 9 MAY 07 0540-11.4 19 312 18 77 XI 7-11

SBE 9+ TIMES DATA ON START DOWN AT DEPTH AT SURFACE PAR S/N FLUOR S/N

PAR on Bridge (uInsteins m-2s-1) = MAX DEPTH = 73 m

SEC. DEPT	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devol
			SALT	NUTS	O2-Mordy	O2 Temp										
1	73			21	*											
2	60		258	22		207	-1.6									
3	50			23												
4	40			24												
5	30			25												
6	20			26												
7	10			27												
8	8			28	*	211	-1.3									
9	0			29												
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge

Reactive?

VESSEL USCG Healy CRUISE ID HI 0701 PROJECT & LEG BEST07 DSDB I.D. 1HE07 STATION DESIGNATION 200

CONSC CAST # 214 DEG 59 MIN 58.81 N LONGITUDE 170 DEG 59 MIN 43 W DATE JD = 59 MAY 07 TIME (GMT) 0906-11.6-11.8 21 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 07X17-2

SBE 9+ PRESS SN PRI TEMP SN SEC TEMP SN PRI COND SN SEC COND SN
 TIMES DATA ON START DOWN AT DEPTH AT SURFACE JO/TIME
 PAR S/N FLUOR S/N
 PAR on Bridge (Einstein's m-2s-1) = MAX. DEPTH = m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	Melissa				Tish		Isotopes		Trace		Micro		Ray		Mascha		D. Sholl		Devol	
			SALT	NUTS	O2-Mordy		O2 Temp	CHL.	ALK (MC)	DIC (MC)	015N	032Z	gases	Zoopps	Prod	NZ/Ar	Radon	3-02								
1	83	- Leaker -																								
2	83																									
3	80																									
4	60																									
5	60																									
6	50																									
7	40																									
8	40																									
9	30																									
10	20																									
11	20																									
12	20																									
13	10																									
14	8	- did not pump																								
15	3																									
16	0																									
17	0																									
18																										
19																										
20																										
21																										
22																										
23																										
24																										

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSDB ID. THE07 STATION DESIGNATION 244

CONSC CAST # 58.74 LATITUDE 59.56 N DEGREE MIN LONGITUDE 170.59.37 W DEGREE MIN DATE JD= 09 MAY 07 TIME (GMT) 1003 DRY BULB (°C) 11.5 WET BULB (°C) 11.7 PRESSURE (mb) 29.6 WIND DIRN. (deg) 13 WIND SPD. (kts) 13 CLOUD (amt) TYPE WEATHER BOTTOM DEPTH (m) 88 STA. NAME/ID 88X17-2

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

DATA ON START DOWN AT DEPTH AT SURFACE AT SURFACE PAR S/N FLUOR S/N PAR on Bridge (Einstein's m-2s-1) = MAX. DEPTH = m

SEQ.	DEPTH DESIRED	ROSETTE notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	Isotopes	Trace gases	Micro Zoops	Ray Prod	Masha NZ/Ar	O. Snoll Radon	Devol 3-O2
1	18.3																
2	18.3																
3	18.3																
4	70																
5	70																
6	50																
7	65																
8	50																
9	50																
10	40																
11	45																
12	30																
13	30																
14	35																
15	18																
16	18																
17	18																
18	18																
19	12																
20	12																
21	6																
22	6																
23	0																
24	0																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSDB I.D. 1HE07 STATION DESIGNATION 261

CONSC CAST # 2496 LATITUDE 28.14 DEGREE MIN 24.82 N DEGREE MIN 171.19.81 DATE JD= 1359 TIME (GMT) 1449 DRY BULB (°C) 9.4 WET BULB (°C) 11.2 PRESSURE (mb) 1010 SEA STATE VISIBILITY 182 WIND DIRN. (deg) 14 WIND SPD. (kts) 4 CLOUD (amt) TYPE WEATHER 98 BOTTOM DEPTH (m) 98 STA. NAME/ID 2165724.82 N 171.19.81 W 19 MAY 07

SBE 9+ TIMES DATA ON START DOWN AT DEPTH AT SURFACE PAR on Bridge (uEinsteins m-2s-1) = PAR S/N FLUOR S/N

SEQ.	DEPTH	ROSETTE	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	615N	632N	Trace	Micro	Ray	Masha	D.Sholl	Devol
1	94	notes	240	38 f	219	0.7												
2	85																	
3	75			39 f														
4	56			40 f														
5	40			41 f														
6	30			42 f														
7	20			43 f														
8	10			44 f														
9	8			45 f	220													
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSOB ID. 1HE07 STATION DESIGNATION 202

CONSC CAST # 36.99 LATITUDE 29.94 LONGITUDE DATE JD= 1741 TIME (GMT) 1745 DRY BULB WET BULB 93% PRESSURE SEA STATE VISIBILITY WIND DIRN. WIND SPD. CLOUD (amt) TYPE WEATHER BOTTOM DEPTH STA. NAME/ID

217 57 37.6 2N 170 29.9 5 W 49 M A Y 07 1745-0.7-1.7 20 WIND (deg) (kts) 124 8

SBE 9+ PRESS SN PRI TEMP SN SEC TEMP SN PRI COND SN SEC COND SN TIMES DATA ON START DOWN AT DEPTH AT SURFACE JD/TIME PAR on Bridge (ultrastens m-2s-1) =

SEC COND SN PAR S/N FLUOR S/N MELISSA TISH ISOTOPES TRACE GASES ZOOPLANKTON PROD MASNA D.SHOIL DEVOI

SEQ.	DEPTH	ROSETTE	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	013N	0321	Trace	Micro	Ray	Masna	D.Shoil	Devoi
1	70	✓	-	back	-													
2	70	✓	241	46	152	-0.7	✓											
3	50	✓		47			✓											
4	40	✓		48			✓											
5	30	✓		49			✓											
6	20	✓		50			✓											
7	10	✓		51			✓											
8	8	✓		52	153	-0.5	✓											
9	6	✓																
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSD8 I.D. 1HE07 STATION DESIGNATION 203

CONSC CAST # 818 DEG 57.44 MIN 11.4 N LONGITUDE 169.40.90 W DATE JD= 29 MAY 07 TIME (GMT) 2054-11.4 DRY BULB (°C) 14 WET BULB (°C) 20 PRESSURE (mb) 20 SEA STATE * * VISIBILITY * * WIND DIRN. (deg) 133 WIND SPD. (kts) 8 CLOUD (amt) * * * WEATHER * * * BOTTOM DEPTH (m) 71 STA. NAME/ID 70XIB-2

SRE 9+ TIMES DATA ON START DOWN AT DEPTH AT SURFACE PAR S/N 1 FLUOR S/N 1

SEQ.	DEPTH DESIRED	ROSETTE notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	Isotopes	Trace	Micro	Ray	Masha	D. Sholl	Devol
1	65		253	F 54	*	195	-1.5										
2	50			F 55													
3	40			F 56													
4	30			F 57													
5	20			F 58													
6	10			F 59													
7	8			F 60	*	202	0.8										
8	0			F 61													
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 OSDB I.D. 1HE07
 STATION DESIGNATION 204

CONSC CAST # 219
 DEG 168
 MIN 51
 LONGITUDE 168 51.34 W
 DATE JD= 09 MAY 07
 TIME (GMT) 2341
 DRY BULB -1.1
 WET BULB .
 PRESSURE 20
 SEA STATE *
 VISIBILITY *
 WIND DIRN. 166
 WIND SPD. 7
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 7170
 STA. NAME/ID MZ2

SBE 9+ PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 TIMES DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE
 PAR S/N
 FLUOR S/N
 MAX. DEPTH = 67 m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			CHL.	DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D. Soil	Devol
			SALT	NUTS	02-Murdy											
1	67			f 68	*200	-1.5										
2	50			f 69												
3	40			f 70												
4	30			f 71												
5	20			f 72												
6	10			f 73												
7	8			f 74	*243											
8	0			*208	f 75											
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 STATION DESIGNATION DSDB I.D. 1HE07 205

CONSC CAST #	DEG	MIN	LONGITUDE	DEG	MIN	DATE JD=	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
220	57	30.111	N	167	58.82	W	10	M	A	07	03	44	.	-1.0	19			135	11			70	70M19

SBE 9+ TIMES DATA ON _____ JD/TIME _____
 PRESS SN _____ START DOWN _____
 PRI TEMP SN _____ AT DEPTH _____
 SEC TEMP SN _____ AT SURFACE _____
 PRI COND SN _____
 SEC COND SN _____
 PAR S/N _____
 FLUOR S/N _____
 PAR on Bridge (uEinstein m-2s-1) = _____
 MAX. DEPTH = 66 m

SEQ.	DEPTH DESIRED	ROSETTE notes	SALT	NUTS	02-Mardy	02 Temp	CHL.	DOM	Alk (MC)	DIC (MC)	Isotopes	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D. Stoll Radon	Devol 3-02
1	66																
2	66		263	76 F	207	-1.1											
3	50			72 F													
4	40			78 F													
5	30			79 F													
6	20			80 F													
7	10			81 F													
8	8			82 F													
9	0			83 F	R11												
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL: USCG Healy
 CRUISE ID: H10701
 PROJECT & LEG: BEST07
 DSOB I.D.: 1HE07
 STATION DESIGNATION: 206

CONSC CAST #
 DEG MIN
 LATITUDE
 DEG MIN
 LONGITUDE
 DATE JD =
 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)
 TYPE
 WEATHER
 BOTTOM DEPTH (m)
 STA. NAME/ID

221 57 31.5 2 N / 67 02.4 3 W 10 M A Y 07 07 07 - 1.3 . 18 140 10 70 70 m 14

SBE 9+ TIMES DATA ON JD/TIME
 PRESS SN DATA ON
 PRI TEMP SN START DOWN
 SEC TEMP SN AT DEPTH
 PRI COND SN AT SURFACE
 SEC COND SN PAR S/N
 FLUOR S/N
 MAX. DEPTH = 105 m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Mashta	D. Soil	Devol
			SALT	NUTS	O2-Mordy	O2 Temp										
1	65															
2	65		257	84 F	214	-0.9	V									
3	50			85 F												
4	40			86												
5	30			87			V									
6	20			88												
7	10			89												
8	8			90	216	-0.5										
9	0			91			V									
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 STATION DESIGNATION 247

19.34

19.22

0954

71

CONSC CAST #
 LATITUDE
 LONGITUDE
 DATE JD=
 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

2225719.45 N 16619.70 W 10MA Y 07 1062-09-11.417 13113 7170M11

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

TIMES
 DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE
 PAR S/N
 FLUOR S/N
 REMARKS
 PAR on Bridge (Einstein's m-25-1) =
 MAX. DEPTH = m

FIREDEPTHTH DEPTH
 ROSETTE notes
 SAMPLE BOTTLE NUMBERS
 SALT NUTS O2-Mordy O2 Temp CHL. DOM ALK (MC) DIC (MC) 013N 03221 gases Micro Ray Masha D.Sholl Devol

SEQ.	DESIRED	ROSETTE notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	013N	03221	gases	Micro	Ray	Masha	D.Sholl	Devol
1	64	-	252	925														
2	64	-																
3	50	-		988														
4	30	-		948														
5	10	-		958														
6	8	-		968														
7	8	-																
8	0	-		978														
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Notes on Surface Ice Conditions or proximity to ice edge

Logok

VESSEL: USCG Healy
 CRUISE ID: H10701
 PROJECT & LEG: REST07
 STATION DESIGNATION: 208

CONSC CAST #
 DEG: 06.50
 MIN: 36.78
 LONGITUDE: 131.2
 DATE JD: 1312
 TIME (GMT): 1320-0.5-1.015
 DRY BULB (°C):
 WET BULB (°C): 97%
 PRESSURE (mb):
 SEA STATE:
 VISIBILITY:
 WIND DIRN. (deg): 116
 WIND SPD. (kts): 14
 CLOUD (amt):
 WEATHER:
 BOTTOM DEPTH (m): 72
 STA. NAME/ID: 7270108

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

TIMES
 DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE
 JD/TIME
 REMARKS
 PAR on Bridge (Einstein's m-2s-1) =
 MAX. DEPTH = m

SEQ.	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS				FLUOR S/N	ALK (MC)	DIC (MC)	ISOTOPES	Trace	Micro	Ray	Masha	D.Sholl	Devol
			SALT	NUTS	O2-Mordy	O2 Temp										
1	67	✓	245	99	5	234	-0.5	✓								
2	69	✓						✓								
3	50	✓						✓								
4	40	✓						✓								
5	30	✓						✓								
6	20	✓						✓								
7	10	✓						✓								
8	8	✓						✓								
9	6	✓						✓								
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or Comments to POC office

VESSEL: USCG Healy
 PROJECT & LEG: H10701
 BEST07
 STATION DESIGNATION: 249

CONSC CAST # 54.62
 LATITUDE 54.62
 LONGITUDE 50.68
 DATE JD = 1624
 TIME (GMT) 1628
 DRY BULB (°C) -4.4
 WET BULB (°C) -4.5
 PRESSURE (mb) 1014
 SEA STATE * * *
 VISIBILITY * * *
 WIND DIRN. (deg) 119
 WIND SPD. (kts) 16
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 72
 STA. NAME/ID 7270M05

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

TIMES
 DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE
 JD/TIME

PAR on Bridge (uinstens m-25-1) =
 MAX DEPTH = m

SEQ.	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS				FLUOR S/N	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devol
			SALT	NUTS	O2-Mordy	O2 Temp										
1	68				21065	219	-0.2									
2	68															
3	60															
4	50															
5	40															
6	30															
7	20															
8	10															
9	0															
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions of Gravity ID: 108 0883

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DS08 ID: HEO7 STATION DESIGNATION 218

CONSC CAST #	DEG	MIN	LATITUDE	DEG	MIN	LONGITUDE	DATE	JD =	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
225	56	52	40 N	164	06	52 W	16	MAY	07	19	28	04	-0.4	-0.5	12				121	14			74	Manning 2

SBE 9+ TIMES DATA ON _____ JD/TIME _____
 PRESS SN _____ START DOWN _____
 PRI TEMP SN _____ AT DEPTH _____
 SEC TEMP SN _____ AT SURFACE _____
 SEC COND SN _____ PAR S/N _____ FLUOR S/N _____

PAR on Bridge (µEinstens m-2s-1) = _____
 MAX. DEPTH = _____ m

FIRID	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS				DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devol
			SALT	NUTS	02-Mordy	02 Temp										
1	70'	Leaker														
2	70'		268	113	632	-0.3										
3	50'			114												
4	40'			115												
5	33'			116												
6	30'															
7	21'															
8	20'															
9	17'			118												
10	13'			119												
11	10'															
12	9'															
13	4'															
14	0'															
15	0'															
16	0'															
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or Proximity to Ice edges

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSDB I.D. IHE07 STATION DESIGNATION 211

CONSC CAST # 2265642.42N 16430.50W 10 MAY 07 2202 0.4 09 12017 75 CN-8

DEG MIN DEG MIN DATE JD = 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

SBE 9+ TIMES DATA ON START DOWN AT DEPTH AT SURFACE JO/TIME PAR S/N

PRESS SN DATA ON START DOWN AT DEPTH AT SURFACE JO/TIME PAR S/N

PRI TEMP SN DATA ON START DOWN AT DEPTH AT SURFACE JO/TIME PAR S/N

SEC TEMP SN DATA ON START DOWN AT DEPTH AT SURFACE JO/TIME PAR S/N

PRI COND SN DATA ON START DOWN AT DEPTH AT SURFACE JO/TIME PAR S/N

SEC COND SN DATA ON START DOWN AT DEPTH AT SURFACE JO/TIME PAR S/N

ROSETTE notes SALT NUTS O2-Morby O2 Temp CHL. DOM ALK (MC) DIC (MC) Isotopes Trace gases Zoops Ray Masha D.Sholl Devol

FIRED	DEPTH	ROSETTE	notes	SALT	NUTS	O2-Morby	O2 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	Isotopes	Trace gases	Zoops	Ray	Masha	D.Sholl	Devol	
1	70			* 262	F 123	* 091	0.1					X							
2	60				F 124							X							
3	50				F 125							X							
4	40				F 126							X							
5	30				F 127							X							
6	20				F 128							X							
7	10				F 129							X							
8	8				F 130	* 153	0.3					X							
9	0				F 131							X							
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Notes on Surface Ice Conditions of proximity to ice edge

VESSEL: USCG Healy
 CRUISE ID: H10701
 PROJECT & LEG: BEST07
 STATION DESIGNATION: 212

CONSC CAST #
 DEG: 22
 MIN: 25
 LATITUDE: 38 N
 DEG: 165
 MIN: 19
 LONGITUDE: 02 W
 DATE: 11 MAY 07
 TIME (GMT): 0145
 DRY BULB: 11.3
 WET BULB: .
 PRESSURE: 05
 SEA STATE: * * *
 VISIBILITY: * * *
 WIND DIRN: 120
 WIND SPD: 18
 CLOUD (amt): * * *
 WEATHER: * * *
 BOTTOM DEPTH: 80
 STA. NAME/ID: C2-10

SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 TIMES: _____
 DATA ON: _____
 START DOWN: _____
 AT DEPTH: _____
 AT SURFACE: _____
 JID/TIME: _____
 PAR on Bridge (Einstein's m-2s-1) = _____
 REMARKS: _____

FLUOR S/N: _____
 MAX DEPTH = 80 m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devol
			SALT	NUTS	O2-Wordy	O2 Temp										
1	80		256	132F	161	0.3										
2	60			133F												
3	50			134F												
4	40			135F												
5	30			136F												
6	20			137F												
7	10			138F												
8	8			139F	171	0.6										
9	0			140F												
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions of proximity to ice edge

VESSEL USCG Healy PROJECT & LEG BEST07 OSDI I.D. THE07 STATION DESIGNATION 213

CRUISE ID H10701

CONSC CAST # 2285609 DEG MIN LATITUDE 43 N DEG MIN LONGITUDE 18607.38 W DATE JD = 11 MAY 07 0616 11.6 01 089 17 1108CM-12

TIME (GMT) DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY WIND DIRN. WIND SPD. CLOUD (amt) TYPE WEATHER BOTTOM DEPTH STA. NAME/ID

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

TIMES DATA ON START DOWN AT DEPTH AT SURFACE JD/TIME

PAR S/N FLUOR S/N

REMARKS PAR on Bridge (Liensteins m-2s-1) = 22 MAX DEPTH = 102 m

FIRE	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS				FLUOR S/N	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devol
			SALT	NUTS	02-Mordy	02 Temp										
1	102			141	*132	26										
2	80			F 142												
3	60			143												
4	50			144												
5	40			145												
6	30			146												
7	20			147												
8	10			148												
9	8			149	*124	1.8										
10	0			*250	F 150											
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL: USCG Healy
 CRUISE ID: H10701
 PROJECT & LEG: BEST02
 STATION DESIGNATION: 214
 DSD8 I.D.: HEO7

CONSC CAST # 5104
 LATITUDE 54.40
 LONGITUDE 162.22
 DATE JD = 11 MAY 07
 TIME (GMT) 1034
 DRY BULB (°C) 2.3
 WET BULB (°C) 2.1
 PRESSURE (mb) 1020
 SEA STATE * * *
 VISIBILITY * * *
 WIND DIRN. (deg) 80
 WIND SPD. (kts) 13
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 137
 STA. NAME/ID CN-14

SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 TIMES DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE
 JD/TIME
 PAR on Bridge (Einstein's m-2s-1)
 REMARKS
 MAX. DEPTH = m

SEQ.	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS			FLUOR S/N	Melissa	TISH	ISOTOPES	Trace	Micro	Ray	Masha	D. Shell	Devol
			SALT	NUTS	O2-Mordy										
1	130		244	191											
2	130		244	191	195	3.5									
3	160			152											
4	75			153											
5	60			154											
6	40			155											
7	30			156											
8	20			157											
9	10			158											
10	8				176	2.5									
11	0														
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Notes on Surface Ice Conditions or Observations to be added

VESSEL: USCG Healy
 CRUISE ID: H10701
 PROJECT & LEG: BEST07
 DSUB ID: 1HE07
 STATION DESIGNATION: 215

CONSC CAST #: 33.29
 LATITUDE: 33.29
 LONGITUDE: 42.67
 DATE JD: 1611
 TIME (GMT): 1616
 DRY BULB (°C): 11.2
 WET BULB (°C): 11.2
 PRESSURE (mb): 1010
 SEA STATE: *
 VISIBILITY: *
 WIND DIRN. (deg): 63
 WIND SPD. (kts): 26
 CLOUD (amt): *
 TYPE: *
 WEATHER: *
 BOTTOM DEPTH (m): 137
 STA. NAME/ID: CN-16

SBE 9+
 PRESS SN: _____
 PRI TEMP SN: _____
 SEC TEMP SN: _____
 PRI COND SN: _____
 SEC COND SN: _____
 TIMES DATA ON: _____
 START DOWN: _____
 AT DEPTH: _____
 AT SURFACE: _____
 JD/TIME: _____
 PAR on Bridge (Einstein's m-2s-1) = _____
 REMARKS: *Logols*

ROSETTE notes: _____
 SALT: _____
 NUTS: _____
 O2-Mordy: _____
 O2 Temp: _____
 CHL: _____
 DOM: _____
 ALK (MC): _____
 DIC (MC): _____
 δ15N: _____
 δ32S: _____
 Trace gases: _____
 Micro Zoops: _____
 Ray Prod: _____
 Masha: _____
 N2/Ar: _____
 D. Soil: _____
 Devol: _____
 MAX. DEPTH = _____ m

SEQ.	DEPTH	ROSETTE	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	δ15N	δ32S	Trace gases	Micro Zoops	Ray Prod	Masha	N2/Ar	D. Soil	Devol
1	132	-		2															
2	132	-	238		179	3.7													
3	160	✓		3															
4	75	✓		4															
5	60	✓		5															
6	50	✓		6															
7	40	✓		7															
8	30	✓		8															
9	20	✓		9															
10	16	✓		10															
11	8	✓		11															
12	0	✓		12															
13				13															
14				14															
15				15															
16				16															
17				17															
18				18															
19				19															
20				20															
21				21															
22				22															
23				23															
24				24															

Notes on Surface Ice Conditions or Comments to ICD code

VESSEL: USCG Healy | CRUISE ID: H10701 | PROJECT & LEG: BEST07 | STATION DESIGNATION: 21C

USCG Healy | CRUISE ID: H10701 | PROJECT & LEG: BEST07 | STATION DESIGNATION: 21C

CONSC CAST # | DEG | MIN | LATITUDE | DEG | MIN | LONGITUDE | DATE | JD = | TIME (GMT) | DRY BULB | WET BULB | PRESSURE | SEA STATE | VISIBILITY | WIND DIRN. | WIND SPD. | CLOUD (amt) | TYPE | WEATHER | BOTTOM DEPTH | STA. NAME/ID

2315517.42N | 16828.43W | 11 MAY 07 | 2206 | 1.9 | . | 04 | * | * | 04727 | 1750 | CM | 18

SBE 9+ | TIMES | DATA ON | JD/TIME | PAR on Bridge (uEinsteins m-2s-1) =

PRI TEMP SN | START DOWN | SEC TEMP SN | AT DEPTH | PRI COND SN | AT SURFACE | SEC COND SN | PAR S/N | FLUOR S/N

FREQ | DEPTH | ROSETTE | SALT | NUTS | O2-Mordy | O2 Temp | CHL. | DOM | Melissa | Tish | Isotopes | Trace | Micro | Ray | Masha | D. Sholl | Devol

SEQ.	DEPTH	ROSETTE	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D. Sholl	Devol
1	1703			32	220	2.2											
2	1600			33	93	2.3				V							
3	1400			34	207					V							
4	1200			35	214	2.8				V							
5	1000			36	211	3.0				V							
6	900			37	243	3.1				V							
7	800			38	216	3.1				V							
8	700			39	151	3.2				V							
9	600			40	097	3.3				V							
10	500			41	092	3.4				V							
11	400			42	039	3.5				V							
12	300			43	050	3.5				V							
13	200			44	059	3.5				V							
14	100			45	060	3.1				V							
15	75			46	088	3.2											
16	60																
17	60			47	089	3.1											
18	50			48	159	3.1											
19	40			49	222	3.0											
20	30			50	212	3.0											
21	20			51	213	3.2											
22	10			52	193	3.2											
23	0			53	190	3.2											
24																	

Notes on Surface Ice Conditions or proximity to ice edge