

PAR 5 1000 dbar

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION	
USCG Healy		HE0701		BEST07		HE07		041	
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD-		TIME (GMT)	
0015414.63N		16634.35W		11 APR 07		001903.1		PAR on Bridge (Einstein's m-2s-1) = 211	
SBE 9+		PRESS SN		DATA ON		TIMES		JD/TIME	
638		2841		START DOWN		0019		REMARKS	
SEC TEMP SN		2824		AT DEPTH					
PRI COND SN		2545		AT SURFACE		0107			
SEC COND SN		2619		PAR S/N		85P230-7015		FLUOR S/N 088234	
				RAY		02:5N-458		TR: CST-390 DK	
FIRED	DEPTH	ROSETTE POSITION		SAMPLE BOTTLE NUMBERS		RAY		TISH	
SEQ.	DESIRED	SALT	NUTRIENTS	CHL. Bot. no.	Prod	DIC (MC)	COMMENTS		
1	1190	201	1	N2/A					
2	900		2						
3	700		3						
4	600		4						
5	500		5						
6	400	202	6	13					
7	300		7	1034					
8	200		8	926					
9	150		9	829					
10	100		10						
11	25		11	40					
12	50		12	50					
13	40		13	45					
14	30		14	30					
15	20		15	20					
16	10		16	10					
17	0		17	0					
18									

Notes on Surface Ice Conditions or proximity to ice edge

2009

VESSEL USCG Healy
 CRUISE ID HE0701
 PROJECT & LEG BEST07
 DSDB I.D. 1HE07
 STATION DESIGNATION U#2

CONSC CAST # 20.37
 LATITUDE 41.48
 LONGITUDE 18541.57 W
 DATE JD= 11 APR 07
 TIME (GMT) 0845
 DRY BULB 36.7 (°C)
 WET BULB 74.9 (°C)
 PRESSURE 681.8 (mb)
 SEA STATE 8
 VISIBILITY 14
 WIND DIRN. 61
 WIND SPD. 12 (kts)
 CLOUD (amt) 90
 WEATHER
 BOTTOM DEPTH 90 (m)
 STA. NAME/ID 402

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 = m

FIREDEPT DEPTH
 SEQ. DESIRED
 ROSETTE POSITION
 SAMPLE BOTTLE NUMBERS
 SALT NUTRIENTS CHL. Bot. no. Prod. Melissa Tish
 COMMENTS Particles

SEQ.	DESIRED	ROSETTE POSITION	SALT	NUTRIENTS	CHL. Bot. no.	Prod	Melissa	Tish	COMMENTS
1	55 ✓			18					Particles
2	70 ✓			19					
3	60 ✓			20					
4	50 ✓			21	289				
5	40 ✓			22	289				
6	30 ✓			23	288				
7	20 ✓			24	283				
8	15 ✓			25	289				
9	5 ✓			26	287				
10									
11									
12									
13									
14									
15									
16									
17									
18									

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL: USCG Healy
 CRUISE ID: HE0701
 PROJECT & LEG: BEST07
 DSOB I.D.: 1HE07
 STATION DESIGNATION: U43

CONSC CAST # _____
 LATITUDE: DEG MIN _____
 LONGITUDE: DEG MIN _____
 DATE JD: DAY MO YR _____
 TIME (GMT): HR MIN _____
 DRY BULB (°C): 34.6
 WET BULB (°C): 9.6
 PRESSURE (mb): 00
 SEA STATE: *
 VISIBILITY: *
 WIND DIRN. (deg): 113
 WIND SPD. (kts): 16
 CLOUD (amt): *
 TYPE: *
 WEATHER: *
 BOTTOM DEPTH (m): 156
 STA. NAME/ID: U43

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

DATA ON _____
 START DOWN _____
 AT DEPTH _____
 AT SURFACE _____
 PAR S/N _____
 FLUOR S/N _____

FIRID	DEPTH	ROSETTE POSITION	SAMPLE BOTTLE NUMBERS			Ray			Melissa			Tish			COMMENTS	
			SALT	NUTRIENTS	CHL. Bot. no.	Prod	ALK (MC)	DIC (MC)	Prod	ALK (MC)	DIC (MC)	Prod	ALK (MC)	DIC (MC)		
1	152 ✓			27												
2	125 ✓		243	28												
3	160 ✓			29												
4	85 ✓	DATA NOT CLASSIFIED		30												
5	50 ✓			31												
6	40 ✓			32												
7	30 ✓			33												
8	20 ✓			34												
9	10 ✓			35												
10	5			36												
11																
12																
13																
14																
15																
16																
17																
18																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID HE0701 PROJECT & LEG BEST07 DSDB I.D. 1HE07 STATION DESIGNATION U64

CONSC CAST # _____ LATITUDE _____ LONGITUDE _____ DATE JD = 1332 TIME (GMT) 1332 DRY BULB 34.6 WET BULB 85% PRESSURE _____ SEA STATE _____ VISIBILITY _____ WIND DIRN. _____ WIND SPD. _____ CLOUD (amt) _____ TYPE _____ WEATHER _____ BOTTOM DEPTH 65 STA. NAME/ID U64

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

SBE 3+ _____ 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 _____

FIRED SEQ.	DEPTH DESIRED	ROSETTE POSITION	SAMPLE BOTTLE NUMBERS			Ray			DIC (MC)	Tish	DOM COMMENTS
			SALT	NUTRIENTS	CHL. Bot. no.	Prod	ALK (MC)	Melissa			
1	50			37	/				/	DM	SN 15 No. 8 Pond 851
2	40			38	/				/		
3	30			39	/				/		
4	20			40	/				/		
5	10			41	/				/		
6	0			42	/				/		
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											

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 C1012

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

0055608.44 N 16605.90 W 11 APR 07 230501.6 01 10511 112 CW12

SBE 9+ TIMES JD/TIME DATA ON 2300 START DOWN 2300 AT DEPTH 2305 AT SURFACE 2315

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

ROSETTE notes SALT NUTS Oxygen O2 Temp CHL. DOM Prod ALK (MC) DIC (MC) N15 P32 Isotopes Comment or Others

FIRE	DEPTH	ROSETTE	SALT	NUTS	Oxygen	O2 Temp	CHL.	DOM	Prod	ALK (MC)	DIC (MC)	N15	P32	Isotopes	Comment or Others
1	100	1	204	1				1		✓	✓	1		SN	Si
2	75	2		2				2		✓	✓	2			
3	50	3		3				3		✓	✓	3			
4	40	4		4				4		✓	✓	4			
5	30	5		5				5		✓	✓	5			
6	20	6		6				6		✓	✓	6			
7	10	7		7				7		✓	✓	7			
8	0	8		8				8		✓	✓	8			
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															

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 CM16

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

016 56 24.18 8 N 165 18.02 W 12 APR 07 0523 -2.3 01 71 17 183 CM16

SBE 9+ PRESS SN DATA ON JD/TIME REMARKS S @ 10' w

PRI TEMP SN START DOWN AT SURFACE 0534 PAR on Bridge (Einstein's m-2s-1) = 42.5 MAX. DEPTH = 78 m

SEC COND SN AT SURFACE 0534 PAR S/N 02 TR

FIRE	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS			CHL	DOM	Ray			Isotopes			Comment or Others
			SALT	NUTS	Oxygen			O2 Temp	Prod	ALK (MC)	DIC (MC)	N15	P32	
1	75			9										Trace Gas Sil
2	70			10										
3	60			11										
4	50			12										
5	40			13										
6	30			14										
7	20			15										
8	10			16										
9	0			17										
10														
11														
12														
13														
14														
15														
16														
17														
18														

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

CONSC CAST # 59.18
 LATITUDE 59.18
 LONGITUDE 55.71
 DATE JD= 1102
 TIME (GMT) 29.3
 DRY BULB (°C) 28.4
 WET BULB (°C) 28.4
 PRESSURE (mb) 1010
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 3018
 WIND SPD. (kts) *
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 74
 STA. NAME/ID CNG

DEG MIN DEG MIN DAY MO YR HR MIN
 16355.66 W 12 A P R 07 1106-11.5-2.4
 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 AT SURFACE

FLUOR S/N
 MAX. DEPTH = m

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	Meissa	Tish	Isotopes	Trace gases	Micro Zoops	Ray Prod	Masha NZ/Ar	D. Sholl Radon	Devol 3-O2
			SALT	NUTS	02-Mordy	02 Temp										
1	61	✓		18												
2	50	✓		19												
3	40	✓		20												
4	30	✓		21												
5	20	✓		22												
6	10	✓		23												
7	0	✓		24												
8	0															
9	0															
10	0															
11																
12																
13																
14																
15																
16																
17																
18																

Notes on Surface Ice Conditions or proximity to ice edge
 Pancakes + broken ice ~10%

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

CONSC CAST # 4734
 LATITUDE 57.51
 DEGREE MIN 47.34
 DEGREE MIN 57.51
 DATE JD= 12 APR 07
 TIME (GMT) 1304
 DRY BULB 29.8
 WET BULB 28.5
 PRESSURE (mb) 99
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 30
 WIND SPD. (kts) 16
 CLOUD (amt) * * *
 TYPE * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 75
 STA. NAME/ID 70M1

SBE 9+ TIMES 16357.58 W JD/TIME
 DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE
 PAR S/N
 FLUOR S/N

PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 PAR on Bridge (μEinsteins m-2s-1) =
 MAX. DEPTH = m

FREQ	DEPTH	ROSETTE	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	02-Mordy	02 Temp											
1	20	✓		25													
2	50	✓		26													
3	40	✓		27													
4	30	✓		28													
5	20	✓		29													
6	10	✓		30													
7	Φ	✓		31													
8	Φ	✓			153												
9					172												
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL: USCG Healy
 CRUISE ID: H10701
 PROJECT & LEG: BEST07
 DSD8 ID: 1HE07
 STATION DESIGNATION: 70M2

CONSC CAST # 495
 DEG 65.73 N
 LONGITUDE 164.04.48 W
 DATE JD= 12 APR 07
 TIME (GMT) 1405-11.2-2.4
 DRY BULB (°C) 29.8
 WET BULB (°C) 28.4
 PRESSURE (mb) 99
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 029
 WIND SPD. (Kts) 16
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 74
 STA. NAME/ID 70M2

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 DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	615N	3325	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	ID. Snail	Devol
			SALT	NUTS	O2-Mordy	O2 Temp											
1	65			32													
2	50			33													Vent open
3	40			34													
4	30			35													
5	20			36													
6	10			37													
7	0			38													
8	0			39													Vent open
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	

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:

CONSC CAST #
 LATITUDE: DEG MIN
 LONGITUDE: DEG MIN
 DATE: 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

105650.51N
 16405.22W
 14 APR 07
 1440-11.1
 99
 3515
 73
 70M2

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) =
 REMARKS
 SAMAROTID
 PRODCAST
 MAX. DEPTH = m

FIREDD DEPTH
 SEQ. DESIRED
 ROSETTE notes
 SAMPLE BOTTLE NUMBERS
 SALT NUTS O2-Murdy O2 Temp CHL. DOM
 Melissa Tish isotopes Trace Micro
 gases Zoops
 Ray Prod Mashta N2/Ar D. Sholl Devol
 Radon 3-O2

1 46
 2 30
 3 24
 4 12
 5 6
 6 0
 7 0
 8
 9 18
 10
 11
 12
 13
 14
 15
 16
 17
 18

18 - triggered by accident

PRODCAST

Notes on Surface Ice Conditions or proximity to ice edge

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

CONSC CAST # DEGREE MIN LATITUDE DEGREE MIN LONGITUDE DATE JD= TIME (GMT) 1841 DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY WIND DIRN. (deg) WIND SPD. (kts) CLOUD (amt) TYPE WEATHER BOTTOM DEPTH (m) STA. NAME/ID

0115 650.64 N 16405.17 W 12 APR 07 1857-0.9-2.500 24 13 42 70M2

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

DEPTH DEPTHTH ROSETTE SAMPLE BOTTLE NUMBERS SALT NUTS 02-Mordy 02 Temp CHL. DOM ALK (MC) DIC (MC) Isotopes Trace Micro Ray Masha D. Soil Devoil

SEQ.	DEPTH DESIRED	ROSETTE notes	SALT	NUTS	02-Mordy	02 Temp	CHL.	DOM	Alk (MC)	DIC (MC)	Isotopes	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D. Soil Radon	Devoil 3-02
1	65			2													
2	60			1													
3	60																
4	55			3													
5	50			4													
6	50																
7	40																
8	40			5													
9	30			6													
10	30																
11	25																
12	25			7													
13	20			8													
14	20																
15	16																
16	16			9													
17	12			10													
18	12																

Notes on Surface Ice Conditions or proximity to ice edge

CONTINUED

Ice to west, 6-8 miles

pg 2/2

VESSEL USCG Healy		CRUISE ID H10701		PROJECT & LEG BEST07		DSD8 I.D. 1HE07		STATION DESIGNATION														
CONSC CAST #	DEG	LATITUDE MIN	DEG	MIN	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				
011					12 APR 07													7042				
SBE 9+		TIMES		JD/TIME		REMARKS																
PRESS SN		DATA ON		PAR on Bridge (μ Einsteins 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	SAMPLE BOTTLE NUMBERS	DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D. Sholl	Devol									
SEQ.	DESIRED	notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	ALK (MC)	DIC (MC)	815N	832Z	gases	Zoops	Prod	N2/Ar	Radon	3-O2					
1	8	19		11																		
2	8	20																				
3	4	21		12																		
4	4	22																				
5	Surf-0'	23		13																		
6	Surf-0'	24																				
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						
17																						
18																						

NOT FIRED

Notes on Surface Ice Conditions or proximity to ice edge

Consentment str #

VESSEL: USCG Healy
 CRUISE ID: H10701
 PROJECT & LEG: BEST07
 DSOB I.D.: 1HE07
 STATION DESIGNATION: 70M3

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
0125650	03	N	16419	03	W	12	A	P	07	21	21	12-21-21.5			0.0			111	17			73	70M3

REMARKS

PAR on Bridge (μEinstein's m-2s-1) = 1680

SBE 9+
 PRESS SN: _____
 PRI TEMP SN: _____
 SEC TEMP SN: _____
 PRI COND SN: _____
 SEC COND SN: _____
 DATA ON: 2117
 START DOWN: _____
 AT DEPTH: _____
 AT SURFACE: 2121
 TIMES: _____
 JD/TIME: _____
 PAR S/N: _____
 FLUOR S/N: _____
 MAX. DEPTH = 69 m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			CHL.	DOM	Melissa	Tish	Isotopes	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D. Soil Radon	Devol 3-02
			SALT	NUTS	02-Murdy											
1	69				235-1.2											
2	69		207	14	179											
3	60			15												
4	60			16												
5	40			17												
6	30			18												
7	20			19												
8	10			20												
9	0			21												
10																
11																
12																
13																
14																
15																
16																
17																
18																

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:

CONSC CAST #
 DEG MIN DEG MIN
 0135651.16N 16434.31W
 DATE JD= 12 APR 07
 TIME (GMT) 2340-1.7
 DRY BULB (°C)
 WET BULB (°C)
 PRESSURE (mb) 01
 SEA STATE *
 VISIBILITY *
 WIND DIRN (deg) 2014
 WIND SPD (kts) *
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 74
 STA. NAME/ID 7DM4

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 (μ Einsteins m-2s-1) = 896
 REMARKS
 MAX. DEPTH = 69 m

ROSETTE notes
 SAMPLE BOTTLE NUMBERS
 SALT NUTS O2-Mordy O2 Temp CHL. DOM
 Melissa Tish Isotopes Trace Micro Ray Mashtu ID Sholl Devol
 Alk (MC) DIC (MC) $\delta^{15}N$ $\delta^{32}S$ gases Zoops Prod N2/Ar Radon 3-O2

SEQ.	DEPTH DESIRED	ROSETTE notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	Alk (MC)	DIC (MC)	$\delta^{15}N$	$\delta^{32}S$	Trace gases	Micro Zoops	Ray Prod	Mashtu N2/Ar	ID Sholl Radon	Devol 3-O2	
1	69			23															
2	60			24															
3	50			25															
4	40			26															
5	30			27															
6	20			28															
7	8			29															
8	8			29															
9	0			30															
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			

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

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

0145654.56 N 16449.65 W 13 APR 07 0058-11.6 01 01117 73 70MS
 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
 0056
 0058
 PAR on Bridge (μEinsteins m-2s-1) =
 MAX. DEPTH = 69 m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	Melissa	Tish	Isotopes	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D.Sholl Radon	Devol 3-O2
			SALT	NUTS	02-Wordy	02 Temp										
1	69		*209		*018	✓										
2	69			31	*150											
3	60			32		✓										
4	50			33		✓										
5	40			34		✓										
6	30			35		✓										
7	20			36		✓										
8	10			37		✓										
9	0			38		✓										
10																
11																
12																
13																
14																
15																
16																
17																
18																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 OSD8 I.D. 1HE07 STATION DESIGNATION

CONSC CAST # 015 DEG 56 MIN 51.54 N LONGITUDE DEG 165 07.35 W DATE JD= 13 APR 07 TIME (GMT) 0242-1.9 DRY BULB (°C) . WET BULB (°C) . PRESSURE (mb) 01 SEA STATE * VISIBILITY * WIND DIRN. (deg) 003 WIND SPD. (kts) 15 CLOUD (amt) * * * WEATHER * * * BOTTOM DEPTH (m) 74 STA NAME/ID 013

SBE 9+ PRESS SN _____ DATA ON _____ JD/TIME _____
 PRI TEMP SN _____ START DOWN _____
 SEC TEMP SN _____ AT DEPTH _____ 0242
 PRI COND SN _____ AT SURFACE _____ 0251
 SEC COND SN _____ PAR S/N _____ FLUOR S/N _____ 02 ✓
 MAX DEPTH = 69 m

REMARKS
 PAR on Bridge (μEinstains m-2s-1) = 318

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	Melissa ALK (MC)	Tish DIC (MC)	Isotopes 615N 632S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D.Sholl Radon	Devol 3-O2
			SALT	NUTS	02-Mordy	02 Temp										
1	69		210	39												
2	60			40												
3	50			41												
4	40			42												
5	30			43												
6	20			44												
7	10			45												
8	0			46	024											
9	0			193	-0.6											
10																
11																
12																
13																
14																
15																
16																
17																
18																

Notes on Surface Ice Conditions or proximity to ice edge

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

CONSC CAST #	DEG	MIN	LATITUDE	DEG	MIN	LONGITUDE	DATE	JD=	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
016565	9	16	1 N	165	22	.615	W 13 APR 07	0418	-2.7				02			02	*	*	354	16	*	*	73	7 CM 7

SBE 9+
 PRESS SN _____
 PRI TEMP SN _____
 SEC TEMP SN _____
 PRI COND SN _____
 SEC COND SN _____
 TIMES _____ JD/TIME _____
 DATA ON _____
 START DOWN _____
 AT DEPTH _____
 AT SURFACE _____
 PAR S/N _____
 FLUOR S/N _____
 PAR on Bridge (Einstein's m-2s-1) = 257
 + O₂ sensor
 MAX. DEPTH = 67 m

FREQ	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	Isotopes	Trace	Micro	Ray	Mast	D. Soil	Devol
			SALT	NUTS	02-Mordy	02 Temp										
1	67			48												
2	60			49												
3	50			50												
4	40			51												
5	30			52												
6	20			53												
7	10			54												
8	0			55	146											
9	0		211	147												
10																
11																
12																
13																
14																
15																
16																
17																
18																

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

CONSC CAST # 01751706.40N 16536.80W 13 APR 07 DATE JD= 0613-3.2 TIME (GMT) 0613-3.2 DRY BULB (°C) 02 WET BULB (°C) 02 PRESSURE (mb) * * 35516 WIND DIRN. (deg) * * 69 WIND SPD. (kts) * * 70m 8

DEG MIN DEG MIN DATE MO YR HR MIN (°C) (°C) (mb) * * (deg) (kts) * * (m) STA. NAME/ID

SBE 9+ TIMES JD/TIME 0609 REMARKS

PRESS SN DATA ON START DOWN AT DEPTH AT SURFACE AT SURFACE

PRI TEMP SN START DOWN AT DEPTH AT SURFACE AT SURFACE

SEC TEMP SN AT DEPTH AT SURFACE AT SURFACE

PRI COND SN AT SURFACE AT SURFACE

SEC COND SN AT SURFACE AT SURFACE

FLUOR S/N

ROSETTE notes

SAMPLE BOTTLE NUMBERS SALT NUTS 02-Mordy 02 Temp CHL

1 65 2124 56 161 149 -1.2 ✓

2 65 56 149 -1.2 ✓

3 50 57 8 ✓

4 40 59 ✓

5 30 60 ✓

6 20 61 ✓

7 10 62 ✓

8 0

9

10

11

12

13

14

15

16

17

18

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

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

018 57 15. 67 N 165 44. 83 W 13 APR 07 0740 -3.4 . 03 615 70 70m9

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

PAR on Bridge (μ Einsteins m⁻²s⁻¹) = 2.0
 + 0.2 sensor
 MAX. DEPTH = 64 m

SEC COND SN
 PAR S/N
 FLUOR S/N

FREQ	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	64			63		V										
2	50			64		V										
3	40			65		V										
4	30			66		V										
5	20			67		V										
6	10			68		V										
7	0															
8	0															
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy	CRUISE ID H10701	PROJECT & LEG BEST07	SDSB I.D. 1HE07	STATION DESIGNATION 17
CONSC CAST #	LATITUDE 19.31	LONGITUDE 00.59	DATE JD =	TIME (GMT) 0917
DEG 57	MIN 19	DEG 16	MIN 22	DRY BULB 2.7
MIN 19	SEC 26	MIN 06	MIN 22	WET BULB 3.7
SEC 26	DATE 13	MIN 07	SEC 03	PRESSURE (mb)
DATE 13	DAY A	DATE 13	PAR on Bridge (μEinsteins m-2s-1) =	SEA STATE *
DAY A	MO P	MO R	PAR S/N	VISIBILITY *
MO P	YR 07	YR 07	FLUOR S/N	WIND DIRN. (deg)
YR 07	HR 09	HR 22	MAX. DEPTH = 62 m	WIND SPD. (kts)
HR 09	MIN 17	MIN 22		CLOUD (amt) *
MIN 17	SEC 03	SEC 03		WEATHER *
SEC 03	WIND DIRN. (deg)	WIND DIRN. (deg)		BOTTOM DEPTH (m)
WIND DIRN. (deg)	WIND SPD. (kts)	WIND SPD. (kts)		STA. NAME/ID
WIND SPD. (kts)	CLOUD (amt) *	CLOUD (amt) *		
CLOUD (amt) *	WEATHER *	WEATHER *		
WEATHER *	BOTTOM DEPTH (m)	BOTTOM DEPTH (m)		
BOTTOM DEPTH (m)	STA. NAME/ID	STA. NAME/ID		
STA. NAME/ID				

FIREDE SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	Melissa 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	62			7φ	145											21302 sm #1
2	60			71	213											
3	50			72												
4	40			73												
5	30			74												
6	20			75												
7	10			76												
8	0			77												
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																

Notes on Surface Ice Conditions or proximity to ice edge

light snow

uslo

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSDB I.D. 1HE07 STATION DESIGNATION 18

CONSC CAST # 19.34 19.27
 DEG MIN DEG MIN DATE JD= 1634
 LONGITUDE 19.27 DATE JD= 1044-3.7-4.543
 TIME (GMT) 1634
 DRY BULB (°C) WET BULB (°C) PRESSURE (mb) * * * * *
 SEA STATE * * * * *
 VISIBILITY * * * * *
 WIND DIRN. (deg) 348
 WIND SPD. (kts) 12
 CLOUD (amt) * * * * *
 TYPE * * * * *
 WEATHER * * * * *
 BOTTOM DEPTH (m) 69
 STA. NAME/ID 7470M11

0245219.34 N 16619.58 W 13 APR 07 1044-3.7-4.543 348 12 7470M11

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 = m

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	Melissa ALK (MC)	Tish DIC (MC)	Isotopes b15N b32Si	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D.Sholl Radon	Devol 3-O2
			SALT	NUTS	O2-Mordy	O2 Temp										
1	64		214	78												
2	60			79												
3	40			80												
4	30			81												
5	20			82												
6	10			83												
7	2			84	136											
8					65											
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																

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 19

CONSC CAST # 26.47
 LATITUDE 30.91
 LONGITUDE 122.8
 DATE JD= 13 APR 07
 TIME (GMT) 1230
 DRY BULB ('C) -3.7
 WET BULB ('C) -4.2
 PRESSURE (mb) 28.3
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 352
 WIND SPD. (kts) 4.9
 CLOUD (amt) TYPE WEATHER
 BOTTOM DEPTH (m) 707
 STA. NAME/ID M12

DEG MIN DEG MIN DAY MO YR HR MIN
 21 57 26.28 N 16 6 38.75 W 13 APR 07 12 30
 SBE 9+ TIMES JD/TIME
 DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE

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

FREQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	Isotopes δ15N δ32S	Trace gases	Micro Zooops	Ray Prod	Mashta N2/Ar	D.Sholl Radon	Devol 3-O2
			SALT	NUTS	O2-Mordy	O2 Temp										
1	63			85												
2	60			86												
3	50			87												
4	46			88												
5	30			89												
6	20			90												
7	10			91	181 216		-0.7									
8	0			92												
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																

Notes on Surface Ice Conditions or proximity to ice edge
 O2 max at ~25m down
 moderate snow low CP

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSDR I.D. 1HE07
 STATION DESIGNATION 24

CONSC CAST # 25.83
 LATITUDE 48.61
 LONGITUDE 135.5
 DATE JD= 13 APR 07
 TIME (GMT) 14:10:11
 DRY BULB (°C) -4.5
 WET BULB (°C) -4.5
 PRESSURE (mb) 1013
 SEA STATE *
 VISIBILITY *
 WIND DIRN (deg) 355
 WIND SPD. (kts) 06
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 71
 STA. NAME/ID 7070M13

DEG MIN DEG MIN DAY MO YR HR MIN
 21 25 7 25 . 7 2 N 16 6 48 . 7 2 W 13 APR 07 14 10 11 - 4 . 5 0 3 3 5 5 0 6 7 0 7 0 M 1 3

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 AT SURFACE

FLUOR S/N
 MAX. DEPTH = m

FIRED 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			93												
2	56			94												
3	46			95												
4	86			96												
5	20			97												
6	15			98												
7	0			99												
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																

Notes on Surface Ice Conditions or proximity to ice edge

moderate snow

IF INSURABLE - 24 July 2025

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSD8 I.D. 1HE07
 STATION DESIGNATION 21

CONSC CAST # 3146
 LATITUDE 02.25
 DATE JD= 1601
 TIME (GMT) 1608-3.3-4.442
 DRY BULB (°C) 3.3-4.442
 WET BULB (°C) 2.51
 PRESSURE (mb) 1014
 SEA STATE * * * * *
 VISIBILITY * * * * *
 WIND DIRN. (deg) 214
 WIND SPD. (kts) 14
 CLOUD (amt) * * * * *
 WEATHER * * * * *
 BOTTOM DEPTH (m) 70
 STA. NAME/ID M14

DEG MIN DEG MIN DEG MIN DAY MO YR HR MIN
 23 57 31.34 N 16702.29 W 13 APR 07 1608-3.3-4.442

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

FLUOR S/N _____
 PAR on Bridge (μEinstein m-2s-1) = _____
 MAX DEPTH = _____ m

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			CHL.	DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D. Soil	Devol
			SALT	NUTS	02-Mordy											
1	65			100	197	-1.0	✓									
2	60			101	190		✓									
3	50			102			✓									
4	40			103			✓									
5	30			104			✓									
6	20			105			✓									
7	10			106			✓									
8	0			107			✓									
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																

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 21

CONSC CAST # 30.87
 LATITUDE 30.87
 LONGITUDE 62.56
 DATE JD= 1647
 TIME (GMT) 1704
 DRY BULB (-3.0)
 WET BULB (-3.9)
 PRESSURE 1013
 SEA STATE *
 VISIBILITY *
 WIND DIRN. 15
 WIND SPD. 05
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH 70
 STA. NAME/ID 705M14

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

SBE 9+ 6245730.72N 16702.62W 13 APR 07 1704 -3.0 -3.9 1013 * * 15 05 * * * * 705M14

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 = _____ m

REMARKS Pad Cast

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	Melissa	Tish	Isotopes			Trace gases	Micro Zoops	Ray Prod	Masha NZ/Ar	D. Snoll Radon	Devol 3-O2	Ju. Ice
			SALT	NUTS	02-Mordy	02 Temp				CHL	ALK (MC)	DIC (MC)							
1	35										X								X
2	22										X								X
3	18										X								X
4	14										X								X
5	9										X								X
6	4										X								X
7	0										X								X
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			

NOTES: NUTS FILTRATED

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 22

CONSC CAST # 3060
 LATITUDE 20.62
 DEGREE MIN 29.96
 LONGITUDE 167.20.65
 DATE JD= 13 APR 07
 TIME (GMT) 1815
 DRY BULB (°C) 3.0
 WET BULB (°C) 4.0
 PRESSURE (mb) 0103
 SEA STATE * * *
 VISIBILITY * * *
 WIND DIRN. (deg) 016
 WIND SPD. (kts) 41
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 71
 STA. NAME/ID 20W15

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 (μ Einsteins m-2s-1) =
 REMARKS
 MAX. DEPTH = 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	27 ✓	notes	216	108	207	216										
2	60 ✓			109												
3	50 ✓			110												
4	40 ✓			111												
5	30 ✓			112												
6	20 ✓			113												
7	10 ✓			114												
8	0 ✓			115												
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																

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 23

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
426	57	30	07N	167	39	91	W	13	A	P	07	2000	-1.5	.	02	*	*	118	4	*	*	7270	W16

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 1954
 2000
 PAR on Bridge (µEinsteins m-2s-1) = _____
 + O₂ sens^r, no filters?
 REMARKS
 MAX. DEPTH = 63 m

FIRD SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			CHL.	DOM	Melissa ALK (MC)	Tish DIC (MC)	Isotopes 015N 03231	Trace gases Zoops	Micro Ray Prod	Masha N2/Ar	D.Sholl Radon	Devol 3-02
			SALT	NUTS	O2-Mordy										
1	63		*217	1	003	FL.6									
2	50			2	219										
3	40			3											
4	30			4											
5	20			5											
6	10			6											
7	0			7											
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															

Notes on Surface Ice Conditions or proximity to ice edge
 NO ice, NO wind

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSDBI.D. 1HE07 STATION DESIGNATION 24

CONSC CAST # 027 DEG 57.30.04 N LONGITUDE 167.59.17 W DATE JD= 13 APR 07 TIME (GMT) 2149 DRY BULB 11.9 WET BULB . PRESSURE 02 SEA STATE * * VISIBILITY * * WIND DIRN. 300 WIND SPD. 6 CLOUD (amt) * * WEATHER * * BOTTOM DEPTH 7170 M STA. NAME/ID 04117

SBE 9+ TIMES DATA ON 2143 START DOWN 2145 AT DEPTH 2149 AT SURFACE
 PRESS SN DATA ON 2143
 PRI TEMP SN START DOWN 2145
 SEC TEMP SN AT DEPTH 2149
 PRI COND SN AT SURFACE
 SEC COND SN AT SURFACE
 PAR S/N FLUOR S/N

ROSETTE notes SALTY NUTS O2-Mordy O2 Temp CHL. DOM ALK (MC) Tish DIC (MC) Isotopes 015N 0321t Trace gases Micro Zoops Ray Prod Masha NZ/Ar D. Sholl Radon Devol 3-02

FIRD SEQ.	DEPTH DESIRED	ROSETTE notes	SALTY	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	ALK (MC)	Tish	DIC (MC)	Isotopes 015N	Isotopes 0321t	Trace gases	Micro Zoops	Ray Prod	Masha NZ/Ar	D. Sholl Radon	Devol 3-02	
1	64			8						V	V	V	V							
2	60			10						V	V	V	V							
3	50			11						V	V	V	V							
4	40			12						V	V	V	V							
5	30			13						V	V	V	V							
6	20			14						V	V	V	V							
7	10			218*						V	V	V	V							
8	0			15*037*059		-0.8				V	V	V	V							
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				

Notes on Surface Ice Conditions or proximity to ice edge

NO ICE !!

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSDB I.D. 1HE07 STATION DESIGNATION 25

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
0285730	21	N	16818	24	W	14	APR 07	0027-2.1		01			322	6			7270	18

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 (Ireinstens m-2s-1) = 1140
 MAX. DEPTH = 64 m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			FLUOR S/N			Trace Micro			Ray Prod	Masha NZ/Ar	D:Shoif Radon	Devol 3-O2
			SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	Isotopes b15N b32S				
1	64		*219	16	*120	*-1.2									
2	60			17											
3	50			18											
4	40			19											
5	30			20											
6	20			21											
7	10			22											
8	0			23											
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION																		
USCG Healy		H10701		BEST07		1HE07		26																		
CONSC	CAST #	LATITUDE		LONGITUDE		DATE JD =		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID							
		DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	(deg)	(kts)	*	*	(m)							
	029	57	31	44	N	16	8	36	8	11	W	14	A	P	07	01	53	-3	0	01	320	3			7270M19	
SBE 9+		TIMES		JD/TIME		PAR on Bridge (Einsteins m-2s-1) =		882		REMARKS																
PRESS SN		DATA ON		0149																						
PRI TEMP SN		START DOWN		0153																						
SEC TEMP SN		AT DEPTH		0200																						
PRI COND SN		AT SURFACE																								
SEC COND SN		PAR S/N		FLUOR S/N																						
FIRE	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS				FLUOR S/N	Melissa	Tish	Isotopes		Trace	Micro	Ray	Masha	D. Sholl	Devol									
SEQ.	DESIRED	notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	δ15N	δ32S	gases	Zoops	Prod	N2/Ar	Radon	3-O2								
1	67		*220	24							✓	✓														
2	60			25				✓			✓	✓														
3	SD			26			✓				✓	✓														
4	40			27			✓				✓	✓														
5	30			28			✓				✓	✓														
6	20			29			✓				✓	✓														
7	10			30			✓				✓	✓														
8	0			31			✓				✓	✓														
9																										
10																										
11																										
12																										
13																										
14																										
15																										
16																										
17																										
18																										

Notes on Surface Ice Conditions or proximity to ice edge ice ribbons/chunks

VESSEL		PROJECT & LEG		STATION DESIGNATION	
USCG Healy		H10701		BEST07	
CONSC CAST #		LATITUDE		LONGITUDE	
0305737.75 N		16849.55 W		14A P R 07	
SBE 9+		TIMES		JD/TIME	
PRESS SN		DATA ON		0325	
PRI TEMP SN		START DOWN		0340	
SEC TEMP SN		AT DEPTH		0346	
PRI COND SN		AT SURFACE		PAR S/N	
SEC COND SN		PAR S/N		FLUOR S/N	
SEQ.	DEPTH DESIRED	ROSETTE	SAMPLE BOTTLE NUMBERS		FLUOR S/N
1	63	notes	SALT	NUTS	02-Mordy
2	50		221	33	*089 *1.7
3	40			34	
4	30	20444444 NO DATA		36	
5	20			37	
6	10			38	
7	0				
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					

did not filter based on fluorometer 1.5 Svts

PAR on Bridge (μEinstein's m-2s-1) = 467

0.2

MAX. DEPTH = 63 m

Notes on Surface Ice Conditions or proximity to ice edge

4/10's ice cover, scattered chunks

27

VESSEL USCG Healy		CRUISE ID H10701		PROJECT & LEG BEST07		DSDB I.D. 1HE07		STATION DESIGNATION 28											
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)											
031		5747.38 N		16851.00 W		14 APR 07		0513-3.9											
SBE 9+		DEG		MIN		DAY		MO											
PRESS SN		DEG		MIN		HR		MIN											
PRI TEMP SN		TIMES		DATA ON		JD/TIME		PAR on Bridge (Einstein's m-2s-1) = 158											
SEC TEMP SN		START DOWN		AT DEPTH		AT SURFACE		0510											
PRI COND SN		AT SURFACE		AT SURFACE		AT SURFACE		0513											
SEC COND SN		PAR S/N		FLUOR S/N		FLUOR S/N		MAX. DEPTH = 64 m											
FIRED	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS		Meissa	Tish	Isotopes	Trace	Micro	Ray	Masha	ID. Snail	Devol						
SEQ.	DESIRED	notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	015N	032I	gases	Zoops	Prod	NZ/Ar	Radon	3-O2	
1	64			39															
2	60			40															
3	50			41															
4	40			42															
5	30			43															
6	20			44															
7	10			45															
8	0			46															
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			

REMARKS
Fluor ≤ 1.5 uM → no Fishes

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy PROJECT & LEG BEST07 DSDB I.D. 1HE07 29

CRUISE ID H10701

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)		TYPE WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID	
03257	50	97	N	168	55	98	W	14	A	P	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07

SBE 9+ TIMES DATA ON START DOWN AT SURFACE

PRESS SN DATA ON

PRI TEMP SN START DOWN

SEC TEMP SN AT SURFACE

PRI COND SN AT SURFACE

SEC COND SN AT SURFACE

PAR S/N

FLUOR S/N

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS		DOM	Melissa		Tish		Isotopes		Trace		Ray Prod	Masha N2/Ar	D. Snoll Radon	Devol 3-02	
			SALT	NUTS		02-Mordy	CH.	ALK (MC)	DIC (MC)	δ15N	δ32S	gases	Zoops					
1	65 ✓		222	47	✓													
2	60 ✓			48	✓													
3	50 ✓			49	✓													
4	40 ✓			50	✓													
5	35 ✓			51	✓													
6	30 ✓			52	✓													
7	22 ✓			53	✓													
8	20 ✓			54	✓													
9	18 ✓			55	✓													
10	14 ✓			56	✓													
11	10 ✓			57	✓													
12	8 ✓			58	✓													
13	4 ✓			59	✓													
14	0 ✓			60	✓													
15	0 ✓																	
16																		
17																		
18																		

REMARKS Prod + Standard

MAX. DEPTH = m

Lucas

Notes on Surface Ice Conditions or proximity to ice edge

17
cont. wood →

VESSEL		CRUISE ID		PROJECT & LEG		DSDR I.D.		STATION DESIGNATION										
USCG Healy		H10701		BEST07		THE07		29										
CONSC CAST #	DEG	MIN	DEG	MIN	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	
433575	1	25	N	16856	39	W	14	APR	07	0905	-3.3	-3.3	850	187	43			M4
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 (uEinsteins m-2s-1) = _____																		
REMARKS RADON 30s cont																		
1	60	✓																
2	60	✓																
3	45	✓																
4	45	✓																
5	30	✓																
6	30	✓																
7	20	✓																
8	20	✓																
9	15	✓																
10	15	✓																
11	10	✓																
12	10	✓																
13	8	✓																
14	8	✓																
15	5	✓																
16	5	✓																
17	3	✓																
18	3	✓																

Notes on Surface Ice Conditions or proximity to ice edge

12
Continued

VESSEL USCG Healy		CRUISE ID H10701		PROJECT & LEG BEST07				SDOB I.D. 1HE07				STATION DESIGNATION																					
CONSC CAST #		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	
435		DEG MIN		DEG MIN		DAY MO YR		HR MIN		("C)		("C)		(mb)		*		*		(deg)		(kts)		* * *		* * *		(m)		70M22			
SBE 9+		TIMES		JD/TIME		PAR on Bridge (Einsteins m-2s-1) =		REMARKS		RADON		302 cond		MAX. DEPTH =		m																	
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																													
FIRE		DEPTH		ROSETTE		SAMPLE BOTTLE NUMBERS		DOM		Melissa		Tish		Isotopes		Trace		Micro		Ray		Masha		D.Sholl		Devol							
SEQ.		DESIRED		notes		SALT NUTS		O2-Mordy		O2 Temp		CHL.		ALK (MC)		DIC (MC)		015N		0322t		gases		Zoopls		Prod		N2/Ar		Radon		3-02	
1		0																															
2		0																															
3																																	
4																																	
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	
13																																	
14																																	
15																																	
16																																	
17																																	
18																																	

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL		CRUISE ID		PROJECT & LEG		SDSBL ID		STATION DESIGNATION											
USCG Healy		H10701		BEST07		1HE07		34											
CONSC	54.21	LONGITUDE		63.88		DATE JD=		14 APR 07											
CAST #		DEG	MIN	DEG	MIN	DAY	MO	YR											
		16	9	03	29	W	14	A	P										
		22	N																
SBE 9+		TIMES		JD/TIME		PAR on Bridge (ufinstens m-2s-1) =		REMARKS											
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																	
FIRE	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS		Melissa		Tish	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devol					
SEQ.	DESIRED	notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	615N	632Si	gases	Zoops	Prod	NZ/Ar	Radon	3-O2	
1	65		223	6161	93	-1.5													
2	60			6264															
3	50			6368															
4	40			6471															
5	30			6565															
6	20			6664															
7	10			6767															
8	0			6868															
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			

Notes on Surface Ice Conditions or proximity to ice edge

TIME (GMT) 1122-2.8-3.697
 DRY BULB (°C)
 WET BULB (°C)
 PRESSURE (mb)
 SEA STATE * * *
 VISIBILITY * * *
 WIND DIRN (deg) 290
 WIND SPD. (kts) 4
 CLOUD (amt) * * *
 TYPE * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 69
 STA. NAME/ID 70M23

VESSEL USCG Healy		CRUISE ID H10701		PROJECT & LEG BEST07		DSD8 I.D. 1HE07		STATION DESIGNATION 31	
CONSC CAST #		LATITUDE 58.60		LONGITUDE 21.43		DATE JD= 14 APR 07		TIME (GMT) 1506	
DEG 43		MIN 57		MIN 57		DAY 14		HR 15	
SBE 9+ PRESS SN		TIMES DATA ON		JD/TIME 16921.86		WET BULB (°C)		PRESSURE (mb)	
PRI TEMP SN		START DOWN		AT SURFACE		WET BULB (°C)		SEA STATE	
SEC TEMP SN		AT DEPTH		AT SURFACE		WET BULB (°C)		VISIBILITY	
PRI COND SN		AT SURFACE		AT SURFACE		WET BULB (°C)		WIND DIRN. (deg)	
SEC COND SN		PAR S/N		FLUOR S/N		WET BULB (°C)		WIND SPD. (kts)	
FIRE		ROSETTE		SAMPLE BOTTLE NUMBERS		WET BULB (°C)		CLOUD (amt)	
DEPTH		notes		SALT		ALK (MC)		TYPE	
DESIRED				NUTS		DIC (MC)		WEATHER	
				O2-Mordy		Isotopes		BOTTOM DEPTH (m)	
				O2 Temp		Trace		STA. NAME/ID	
				CHL.		gases			
				DOM		Micro			
				ALK (MC)		Zoops			
				DIC (MC)		Ray			
				Isotopes		Mashta			
				Trace		D.Sholl			
				Micro		Devol			
				Zoops					
				Ray					
				Mashta					
				D.Sholl					
				Devol					

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy		CRUISE ID H10701		PROJECT & LEG BEST07		ISDB I.D. 1HE07		STATION DESIGNATION 32											
CONSC CAST #		02.58 LATITUDE		40.22 LONGITUDE		DATE JD=		TIME (GMT)											
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		6970M25		6970M25		6970M25		6970M25											
SBE 9+		TIMES		JD/TIME		PAR on Bridge (μEinsteins m-2s-1) =		REMARKS											
PRESS SN		DATA ON		START DOWN		AT DEPTH		AT SURFACE											
PRI TEMP SN		AT DEPTH		AT SURFACE		MAX. DEPTH =		m											
SEC TEMP SN		AT SURFACE		PAR S/N		FLUOR S/N													
SEC COND SN		ROSETTE		SALT		NUTS		O2-Mordy											
O2-Temp		CHL.		DOM		ALK (MC)		DIC (MC)											
Isotopes		Trace		Micro		Ray		Masha											
D.Sholl		Devol		3-O2															
SEQ.	DEPTH	ROSETTE	notes	SALT	NUTS	O2-Mordy	O2-Temp	CHL.	DOM	ALK (MC)	DIC (MC)	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devol	
1	62			224	1	092	-1.8												
2	50				2														
3	40				3														
4	30				4														
5	20				5														
6	10				6														
7	0																		
8	0																		
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			

Notes on Surface Ice Conditions or proximity to ice edge

Panicle ice ~ 80%
TSG = -1.492

do not sample

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION									
USCG Healy		H10701		BEST07		1HE07		33									
CONSC CAST #	DEG	MIN	DEG	MIN	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
037	58	08	23	N	16955	1900	6.9	8.9	915	*	36	17	*	*	7170M26		
LATITUDE		LONGITUDE		DATE		TIME		PRESSURE		WIND		CLOUD		WEATHER		BOTTOM DEPTH	STA. NAME/ID
08,85		55,46		14 APR 07		1900		915		36 17		* * *					
SBE 9+		TIMES		JD/TIME		PAR on Bridge (μEinsteins m-2s-1) =		REMARKS									
PRESS SN		DATA ON						Produced on + DOM									
PRI TEMP SN		START DOWN															
SEC TEMP SN		AT DEPTH															
PRI COND SN		AT SURFACE															
SEC COND SN		PAR S/N		FLUOR S/N													
		M		V													
FIRED	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS		CHL	DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D. Sholl	Devol		
SQ.	DESIRED	notes	SALT	NUTS	02-Mordy	02 Temp	ALK (MC)	DIC (MC)	δ15N	δ33S	gases	Zoops	Prod	N2/Ar	Radon	3-02	
1	65'			8	200	-1.8			X								X1A
2	68'			9													N29
3	50'			10					X								
4	40'			11					X								
5	38'			12													
6	30'			13					X								
7	25'			14													
8	20'			15													
9	20'			16													
10	15'			17					X								
11	10'			18													
12	10'			19													
13	5'			20													
14	0			21													
15	0			22													
16																	
17																	
18																	

Notes on Surface Ice Conditions or proximity to ice edge

lots of ice around

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION											
USCG Healy		H10701		BEST07		1HE07		3-1											
CONSC	DEG	LATITUDE	DEG	LONGITUDE	DATE	JD =	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
03858	16.	92 N	170	05.68 W	14	APR 07	20511-7.3			94	*	*	032	15	*	*		7270M27	
SBE 9+		TIMES		JD/TIME		PAR on Bridge (Einstein's m-2s-1) =		REMARKS											
PRESS SN		DATA ON						PAR on Bridge (Einstein's m-2s-1) =		Temo ~ -1.8°C									
PRI TEMP SN		START DOWN								CTD kept at 5 cm while helicopter launched									
SEC TEMP SN		AT DEPTH								MAX. DEPTH = m									
PRI COND SN		AT SURFACE																	
SEC COND SN		PAR S/N		FLUOR S/N															
FIRE	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS				DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devol			
SEQ.	DESIRED	notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	ALK (MC)	DIC (MC)	gases	Zoop	Prod	N2/Ar	Radon	3-O2				
1	Bot		229	23															
2	60			24															
3	50			25															
4	40			26 F															
5	30			27 F															
6	20			28 F															
7	10			29															
8	0			30		091 -1.4													
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			

Notes on Surface Ice Conditions or proximity to ice edge

lots of ice
pancaked at station

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSD8 I.D. 1HE07 STATION DESIGNATION 35

CONSC CAST # 03958 DEG 26.77 N LATITUDE 17011.14 W LONGITUDE 14 APR 07 DATE JD= 2325 TIME (GMT) 2325 DRY BULB 7.5 WET BULB . PRESSURE (mb) * SEA STATE * VISIBILITY * WIND DIRN. (deg) 021 WIND SPD. (kts) 17 CLOUD (amt) * * WEATHER * * BOTTOM DEPTH (m) 7370 STA. NAME/ID M28

SBE 9+ TIMES DATA ON 2320 JD/TIME 2320 PRESS SN START DOWN 2320 PRI TEMP SN AT DEPTH 2325 SEC TEMP SN AT SURFACE 2332 SEC COND SN PAR S/N 4 FLUOR S/N 4 PAR on Bridge (Einfreistens m-2s-1) = 2160 MAX. DEPTH = 68 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 3-02
			SALT	NUTS	O2-Mordy	O2 Temp											
1	68			31	*097	*-1.5											
2	60			32													
3	50			33													
4	40			34													
5	30			35	F												
6	20			36	F												
7	10			37	F												
8	0			228	38	F											
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy		CRUISE ID H10701		PROJECT & LEG BEST07		SDSB I.D. 1HE07		STATION DESIGNATION 36											
CONSC CAST #	DEG	MIN	DEG	MIN	DATE JD =	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	
0405837	02	N	170	16	53 W	15 APR 07	0057-18.2		94	*	*	32	14	*	*	*		7270	A29
SBE 9+		TIMES		JD/TIME		REMARKS													
PRESS SN		DATA ON		PAR on Bridge (Einstein's m-2s-1) = 965															
PRI TEMP SN		START DOWN		02															
SEC TEMP SN		AT DEPTH																	
PRI COND SN		AT SURFACE		MAX. DEPTH = 68 m															
SEC COND SN		<input checked="" type="checkbox"/> PAR S/N		<input checked="" type="checkbox"/> FLUOR S/N															
FIRED	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS			DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D. Snoll	Devol				
SEQ.	DESIRED	notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL	ALK (MC)	DIC (MC)	δ15N	δ32S	gases	Zoops	Prod	N2/Ar	Radon	3-02		
1	68		*227	39															
2	60			40															
3	50			41															
4	40			42															
5	30			43															
6	20			44															
7	10			45															
8	0			46															
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			

UPTRACE AND BOTTLE FILE WILL BE CONTINUED IN CTD DATA FILES DUE TO CRASH OF SOFTWARE.

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION																
USCG Healy		H10701		BEST07		1HE07		32																
CONC	DEG	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				
CAST #	MIN		MIN			DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	(deg)	(kts)	*	*	(m)					
041	58	46.46	N	17	017.62	W	15	A	P	07	03	22	-8.3		94				017	11				7170M30
SBE 9+		TIMES		JD/TIME		PAR on Bridge (μEinsteins m ⁻² s ⁻¹) =		D2		REMARKS		no filters, boobyak!												
PRESS SN		DATA ON																				MAX. DEPTH = 68 m		
PRI TEMP SN		START DOWN																						
SEC TEMP SN		AT DEPTH																						
PRI COND SN		AT SURFACE																						
SEC COND SN		PAR S/N																						
SEQ.	DEPTH	ROSETTE	SALT	NUTS	O2-Mordy	O2 Temp	CHL	DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devol							
1	68		*226	47																				
2	60			48																				
3	50			49																				
4	40			50																				
5	30			51																				
6	20			52																				
7	10			53																				
8	0			54		*088	*																	
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16																								
17																								
18																								

Notes on Surface Ice Conditions or proximity to ice edge
 Fin ice, 5-10m patches ~ 8/10's coverage

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION																
USCG Healy		H10701		BEST07		1HE07		38																
CONSC CAST #	DEG	LATITUDE MIN	DEG	LONGITUDE MIN	DATE JD=	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
0425856	856	.90	N	17019.64	W	15	A	07	0508	6	0508-6.2	.2	.		*	*	018	12	*	*	*	7270M31		
SBE 9+	TIMES		JD/TIME		DATE		TIME		PAR on Bridge (μEinsteins m ⁻² s ⁻¹) =		249		REMARKS											
PRESS SN	DATA ON		0506		0506		0508		249															
PRI TEMP SN	START DOWN																							
SEC TEMP SN	AT DEPTH																							
PRI COND SN	AT SURFACE																							
SEC COND SN	PAR S/N		4		4		4		4		4		4		4		4		4		4		4	
FIRE	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS	FLUOR S/N	DOM	ALK (MC)	DIC (MC)	Isotopes	Trace	Micro	Ray	Masha	D. Soil	Devol										
SEQ.	DESIRED	notes	SALT	NUTS	O2-Morby	O2 Temp	CHL.																	
1	67			55	*220	-1.8																		
2	60			56																				
3	50			57																				
4	40			58																				
5	30			59																				
6	20			60																				
7	10			61																				
8	0			*225	62																			
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16																								
17																								
18																								

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL		CRUISE ID		PROJECT & LEG		DSDBI.I.D.		STATION DESIGNATION																						
USCG Healy		H10701		BEST07		1HE07		39																						
CONSC CAST #	DEG	LATITUDE	MIN	DEG	LONGITUDE	MIN	DATE	JD=	TIME (GMT)	HR	MIN	DRY BULB	(°C)	WET BULB	(°C)	PRESSURE	(mb)	SEA STATE	WIND DIRN.	(deg)	WIND SPD.	(kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	(m)	STA. NAME/ID		
043	59	06	.41	N	170	14	81	W	15	A	P	07	06	57	-5.6	1.6	94	*	03	52	3	*	*	*	69	70	M32			
SBE 9+	TIMES		JD/TIME	PAR on Bridge (Heinsteins m-2s-1) =		REMARKS																								
PRESS SN	DATA ON			PAR S/N		FLUOR S/N																								
PRI TEMP SN	START DOWN			PAR S/N		FLUOR S/N																								
SEC TEMP SN	AT DEPTH			PAR S/N		FLUOR S/N																								
PRI COND SN	AT SURFACE			PAR S/N		FLUOR S/N																								
SEC COND SN				PAR S/N		FLUOR S/N																								
FIREID	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS	FLUOR S/N	Melissa	Tish	isotopes	Trace	Micro	Ray	Masha	D. Sholl	Devid																	
SQ.	DESIRED	notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL	DOM	ALK (MC)	DIC (MC)	615N	632i	gases	Zoops	Prod	N2/Ar	Radon	3-O2												
1	62		7231	63			✓																							
2	50			64			✓																							
3	40			65			✓																							
4	30			66			✓																							
5	20			67			✓																							
6	10			68			✓																							
7	0			69	195	-1.8	✓																							
8																														
9																														
10																														
11																														
12																														
13																														
14																														
15																														
16																														
17																														
18																														

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 40

CONSC CAST # 1490 LATITUDE 24.62 LONGITUDE 149.87 N DATE JD= 15 APR 07 TIME (GMT) 0932 DRY BULB 5.5 WET BULB 8.5 PRESSURE 96 SEA STATE * VISIBILITY * WIND DIRN. 28 WIND SPD. 17 CLOUD (amt) * WEATHER * BOTTOM DEPTH 68 STA. NAME/ID 40

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

0445914.87 N 17024.73 W 15 APR 07 0940-0.5-8.5 96 28 17

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

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	ALK (MC)	DIC (MC)	δ15N	δ32S	Trace gases	Micro Zoops	Ray Prod	Mashta N2/Ar	D.Sholl Radon	Devol 3-02
			SALT	NUTS	O2-Mordy											
1	63		232	70												
2	58			71												
3	40			72												
4	36			leaker												
5	20			73												
6	10			74												
7	0			75												
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION											
USCG Healy		H10701		BEST07		1HE07		41											
CONSC CAST #	DEG	MIN	LONGITUDE	DEG	MIN	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	
045	59	20	12 N	170	39	35 W	15 APR 07	1148	-7.5	-9.7	77	*	*	26	25	*	*	70	7075 M34
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 (Einsteins 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 N2/Ar	D.Sholl Radon	Devol 3-O2		
1	65		232	76			✓												
2	50			77			✓												
3	40			78			✓												
4	30			79			✓												
5	20			80			✓												
6	10			81			✓												
7	5			82			✓												
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION												
USCG Healy		H10701		BEST07		1HE07		42												
CONSC CAST #	DEG	LATITUDE	DEG	MIN	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	
4659	26	25	53	85	1348	15	APR 07	1403.9	2.2	2.1	98	*	*	41	20	*	*	93	75M35	
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 = _____ m																				
SEQ.	DEPTH DESIRED	ROSETTE	SALT	NUTS	O2-Morphy	O2 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	Isotopes	Trace	Micro	Ray	Masha	D. Shell	Devol			
1	66	✓	233	83																
2	60	✓		84																
3	50	✓		85																
4	40	✓		84 f.																
5	30	✓		87 f.																
6	20	✓		88 f.																
7	15	✓		89 f.																
8	8	✓		90 f.																
9	0	✓		90 f.																
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				

Notes on Surface Ice Conditions or proximity to ice edge

Sal spikes at surface

100% pancake ice

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION																														
USCG Healy		H10701		BEST07		1HE07		43																														
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)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID																		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR													MIN																	
0475935	70	N	17055	57	W	15	A	07	1537	10.2				99			015	19			170136																	
SBE 9+		TIMES		JD/TIME		PAR on Bridge (uEinstein's m-2s-1) =		REMARKS																														
PRESS SN		DATA ON		START DOWN		AT DEPTH		AT SURFACE		MAX. DEPTH = m																												
PRI TEMP SN		AT DEPTH		AT SURFACE																																		
SEC TEMP SN		AT DEPTH		AT SURFACE																																		
PRI COND SN		PAR S/N		FLUOR S/N																																		
SEC COND SN		SALT		NUTS		O2-Mordy		O2 Temp		CHL		DOM		Melissa		Tish		Isotopes		Trace		Micro		Ray		Masha		D. Snoll		Devol								
SEQ.	DEPTH DESIRED	ROSETTE notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL	DOM	ALK (MC)	DIC (MC)	015N	032E	gases	Zoops	Ray	Masha	D. Snoll	Devol																				
1	65			91																																		
2	50			92																																		
3	40			93		172	-1.8	✓																														
4	30			94				✓																														
5	20			95				✓																														
6	10			96				✓																														
7	8			97				✓																														
8	0			97				✓																														
9																																						
10																																						
11																																						
12																																						
13																																						
14																																						
15																																						
16																																						
17																																						
18																																						

Notes on Surface Ice Conditions or proximity to ice edge
 SSS 2 = 3157
 > 95° 70' pan cakes + broken pieces generally 5-10m, 1-60cm

VESSEL		CRUISE ID		PROJECT & LEG		SDSB I.D.		STATION DESIGNATION																													
USCG Healy		H10701		BEST07		1HE07		44																													
CONSC CAST #	DEG	MIN	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)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID														
84859	42	93	17	108	15	A	P	07	17	47	-11.4	-13.8	00				15	20					72	7270M37													
LATITUDE		LONGITUDE		DATE		MO		YR		TIME		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID			
43.08		08.32		15 APR 07		A		07		17:47		-11.4		-13.8		00						15		20						72		7270M37					
SBE 9+		TIMES		JD/TIME		PAR ON BRIDGE		FLUOR S/N		MELISSA		TISH		ISOTOPES		TRACE		MICRO		RAY		MASHA		D. SHOLL		DEVOL											
PRESS SN		DATA ON				PAR ON BRIDGE (EINSTEIN'S m-2s-1) =																															
PRI TEMP SN		START DOWN																																			
SEC TEMP SN		AT DEPTH																																			
PRI COND SN		AT SURFACE																																			
SEC COND SN		PAR S/N																																			
FIRED	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS				FLUOR S/N	MELISSA	TISH	ISOTOPES	TRACE	MICRO	RAY	MASHA	D. SHOLL	DEVOL																					
SEQ.	DESIRED	NOTES	SALT	NUTS	O2-MORDY	O2 Temp	CHL	DOM	ALK (MC)	DIC (MC)	015N	0325I	gases	Zoops	Prod	N2/Ar	Radon	3-02																			
1	65		234	98	211	-1.8																															
2	50			99			✓																														
3	40			100 F			✓																														
4	30	Frozen		101 F			✓																														
5	20			102 F			✓																														
6	10			103 F			✓																														
7	8	Frozen					✓																														
8	0	Frozen					✓																														
9																																					
10																																					
11																																					
12																																					
13																																					
14																																					
15																																					
16																																					
17																																					
18																																					

Notes on Surface Ice Conditions or proximity to ice edge *Fracturing in leads 7-8.9 m* *also packed powerake - 95%*

VESSEL USCG Healy		CRUISE ID H10701		PROJECT & LEG BEST07		DSDB I.D. 1HE07		STATION DESIGNATION 45																	
CONSC CAST #	DEG	LATITUDE MIN	DEG	LONGITUDE 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)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
649	59	44.62	N	17126.98	W	5	A	P	0	7	19	49	10.8	.	02	*	*	68	1	04	*	*	*	1270	m38
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		PAR on Bridge (uFinstens m-2s-1) =		MAX. DEPTH =		m		REMARKS									
FIRE	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS		FLUOR S/N	Melissa	Tsh	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devol											
SEQ.	DESIRED	notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL	DOM	ALK (MC)	DIC (MC)	gases	Zoops	Prod	N2/Ar	Radon	3-O2									
1	68		235	104	*153	*-1.8																			
2	60			105																					
3	50			106																					
4	40			107																					
5	30			108																					
6	20			109																					
7	10			110																					
8	8																								
9	0																								
10																									
11																									
12																									
13																									
14																									
15																									
16																									
17																									
18																									

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL		CRUISE ID		PROJECT & LEG		DSDI I.D.		STATION DESIGNATION												
USCG Healy		H10701		BEST07		1HE07		46												
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)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO														YR
0505950	50.34	N	17150.10	W	15	A	P	07	22	29	-11.1	.1	.03					19	16	7270M39
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 _____																				
<input checked="" type="checkbox"/> PAR S/N _____ <input checked="" type="checkbox"/> FLUOR S/N _____										PAR on Bridge (Einstein's m-2s-1) = 183 W02 MAX. DEPTH = _____ m										
SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D. Soil	Devol					
			SALT	NUTS	O2-Mordy	O2 Temp	CHL.													
1	21			1	*146	*-1.2														
2	60			2																
3	50			3																
4	40			4																
5	33			5																
6	30			6																
7	20			7																
8	17			8																
9	13			9																
10	10			10																
11	2			11		*61	*-1.8													
12	4			12																
13	0			13																
14																				
15																				
16																				
17																				
18																				

S11
S13
S14
S15
S16
S17

Notes on Surface Ice Conditions or proximity to ice edge

70, 63,

RADSO CAST

PG 1/3

VESSEL		USCG Healy		CRUISE ID		H10701		PROJECT & LEG		BEST07		DSDB I.D.		1HE07		STATION DESIGNATION				46															
CONSC	CAST #	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					
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)																	
05	15	59	50	18	N	17	15	15	A	PAR 07	23	34	10	0	8	04				17	11														
SBE 9+		TIMES		JD/TIME		PAR on Bridge (μEinsteins m-2s-1) =		REMARKS		RADSO		MAX. DEPTH = 70 m																							
1	✓	70																																	
2	✓	70																																	
3	✓	63																																	
4	✓	63																																	
5	✓	55																																	
6	✓	55																																	
7	✓	50																																	
8	✓	50																																	
9	✓	40																																	
10	✓	40																																	
11	✓	30																																	
12	✓	30																																	
13	✓	20																																	
14	✓	20																																	
15	✓	10																																	
16	✓	10																																	
17	✓	8																																	
18	✓	8																																	

Notes on Surface Ice Conditions or proximity to ice edge

Sold ice, cast was in A soft spot

REMARKS
RADSO

(Pg 7/2)

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION													
USCG Healy		H10701		BEST07		1HE07															
CONSC CAST #	DEG	LATITUDE		DEG	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
		MIN	SEC		MIN	SEC	DAY	MO													
051																					
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 (μEinsteins m-2s-1) = _____ MAX. DEPTH = _____ m																					
19	✓	5																			
20	✓	5																			
21	✓	0																			
22	✓	0																			
5																					
6																					
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Notes on Surface Ice Conditions or proximity to ice edge

(* 8 *)

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION									
USCG Healy		H10701		BEST07		1HE07		47									
CONSC CAST #	DEG	MIN	DEG	MIN	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
05259	50.	74N	172	05.	71	16	APR 07	0140	-13.9		04	350	12			7570M40	
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 _____ <input checked="" type="checkbox"/> FLUOR S/N _____																	
PAR on Bridge (Einsteins m-2s-1) = _____ MAX. DEPTH = 70 m																	
REMARKS																	
1	70																
2	60																
3	50																
4	40																
5	30																
6	20																
7	10																
8	8																
9	0																
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
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Notes on Surface Ice Conditions or proximity to ice edge

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION														
USCG Healy		H10701		BEST07		1HE07		48														
CONSC CAST #	DEG	MIN	LONGITUDE	DEG	MIN	DATE JD =	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	
053	59	54	69 N	172	26	11 W	16	A	P	07	0558	10.6		05	3	07	11				74	ZOM41
REMARKS																						
SBE 9+ PRESS SN										PAR on Bridge (μEinsteins m-2s-1) = 71												
PRI TEMP SN										MAX. DEPTH = 71 m												
SEC TEMP SN																						
PRI COND SN																						
SEC COND SN																						
SEQ.	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS	FLUOR S/N <th>DOM</th> <th>ALK (MC)</th> <th>DIC (MC)</th> <th>ISOTOPES</th> <th>Trace gases</th> <th>Micro Zoops</th> <th>Ray Prod</th> <th>Masha N2/Ar</th> <th>D.Sholl Radon</th> <th>Devol 3-02</th>	DOM	ALK (MC)	DIC (MC)	ISOTOPES	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D.Sholl Radon	Devol 3-02								
1	71		*237																			
2	60																					
3	50																					
4	40																					
5	30																					
6	20																					
7	10																					
8	8																					
9	0																					
10																						
11																						
12																						
13																						
14																						
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Notes on Surface Ice Conditions or proximity to ice edge

VESSEL		CRUISE ID		PROJECT & LEG		SDSB I.D.		STATION DESIGNATION												
USCG Healy		H10701		BEST07		1HE07		49												
CONSC CAST #	DEG	MIN	LONGITUDE	DEG	MIN	DATE JD =	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
0545958	172	44	77	W	16	APR 07	0955-11.0	9.6	07	071	01							67	2870M42	
SBE 9+		TIMES		JD/TIME		PAR on Bridge (Einstein's m-2s-1) =		No Nitro Spikes		No O ₂		REMARKS		Did house -		than 0.1 -		T malle. fr. enough		
PRESS SN		DATA ON		START DOWN		AT DEPTH		AT SURFACE		AT SURFACE		AT SURFACE		AT SURFACE		AT SURFACE		AT SURFACE		
PRI TEMP SN		PRI COND SN		SEC TEMP SN		SEC COND SN		FLUOR S/N		FLUOR S/N		FLUOR S/N		FLUOR S/N		FLUOR S/N		FLUOR S/N		
FIRED 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	Bot-46			✓ 31																
2	60			✓ 32																
3	50			✓ 33																
4	40			✓ 34																
5	30			✓ 35																
6	20			✓ 36																
7	10			✓ 37																
8	8			38	✓	181	-1.8													
9	0			✓ 39																
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				

Notes on Surface Ice Conditions or proximity to ice edge
 The ship needed to go back 1 fall 1-8 times trying to gain a space for gear to swim.
 The pack was not packed there was little space to pack the ice to free space.

VESSEL		CRUISE ID		PROJECT & LEG		DSDBL I.D.		STATION DESIGNATION													
USCG Healy		H10701		BEST07		1HE07		54													
CONSC CAST #	DEG	LATITUDE		DEG	LONGITUDE		DATE JD=		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
		MIN	SEC		MIN	SEC	DAY	MO													
155	60	02	23	N	173	00	39	W	16	A	P	07			35	6	01				70761M43
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 _____ MAX. DEPTH = _____ m																					
SEQ.	DEPTH DESIRED	ROSETTE		SAMPLE BOTTLE NUMBERS		DOM		ALK (MC)	DIC (MC)	Isotopes δ15N δ32S	Trace gases	Micro Zoopl	Ray Prod	Masha N2/Ar	D. Sholl Radon	Devol 3-O2					
1	8.5			043	48																
2	10				41																
3	50				42																
4	40				43																
5	30				44																
6	20				45																
7	10				46																
8	0				47																
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					
17																					
18																					

Notes on Surface Ice Conditions or proximity to ice edge *SSad 317)*
Shelton at 40 m
(Anch) ice cover across 85 90 m area
Opening from 15 km of land and ice

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSDB I.D. 1HE07
 STATION DESIGNATION 51

CONC CAST # 06.03
 LATITUDE 19.02
 DEGREE MIN 05 66 0
 DEGREE MIN 06 03 N
 LONGITUDE 173 18.97 W
 DATE JD= 16 APR 07
 TIME (GMT) 1558
 DRY BULB (°C) -11.1
 WET BULB (°C) -15.1
 PRESSURE (mb) 1007
 SEA STATE * *
 VISIBILITY * *
 WIND DIRN. (deg) 100
 WIND SPD. (kts) 7
 CLOUD (amt) * * *
 WEATHER
 BOTTOM DEPTH (m) 71
 STA. NAME/ID P070M44

SBE 9+ TIMES
 DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE
 JD/TIME
 PAR on Bridge (μEinsteins m⁻²s⁻¹) =
 REMARKS
 MAX. DEPTH = m

SEC COND SN
 FIRED DEPTH
 SEQ. DESIRED
 ROSETTE notes
 SAMPLE BOTTLE NUMBERS
 SALT NUTS O2-Mordy O2 Temp CHL. DOM ALK (MC) DIC (MC) δ15N δ32S gases Micro Zoops Prod Masha N2/Ar D. Sholl Devol

SEQ.	DESIRED	ROSETTE notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	δ15N	δ32S	gases	Micro Zoops	Prod	Masha N2/Ar	D. Sholl Radon	Devol 3-O2
1	63		249	45														
2	50		49	50														
3	50			51														
4	40			52														
5	30			53														
6	20			54														
7	10																	
8	8	not sampled																
9	Φ																	
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		

Notes on Surface Ice Conditions or proximity to ice edge
 5. Edge of 5ft melt forming
 & narrow ice between chunks
 first appear within 21 m of melt then ice ~ 6" surrounding ship

VESSEL USCG Healy		CRUISE ID H10701		PROJECT & LEG BEST07		DSDB I.D. 1HE07		STATION DESIGNATION 52	
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	
6576015.41N		17331.11W		16 APR 07		1815-11.6-14.4		7	
DEG MIN		DEG MIN		DAY MO YR		HR MIN		DRY BULB (°C)	
15.41		17331.11		16 APR 07		1815-11.6-14.4		7	
SBE 9+		TIMES		JD/TIME		PAR on Bridge (Einstein's m-2s-1) =		REMARKS	
PRESS SN		DATA ON				No Batter Fines		Iron Cast	
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 = m	
FIREDD DEPTH		ROSETTE		SAMPLE BOTTLE NUMBERS		Melissa		Tish	
SFG. DESIRED		notes		SALT NUTS		O2-Mordy		O2 Temp	
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
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Notes on Surface Ice Conditions or proximity to ice edge

In Polynya

VESSEL USCG Healy		CRUISE ID H10701		PROJECT & LEG BEST07		DSDB I.D. 1HE07		STATION DESIGNATION 52																																									
CONSC CAST #		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																			
05860		15.13 N		17331.26 W		16 APR 07		1907-10.8		-16.407		1112		6														6870M45																					
SBE 9+ PRESS SN PRI TEMP SN SEC TEMP SN PRI COND SN SEC COND SN		LATITUDE MIN		LONGITUDE MIN		DATE DAY MO YR		TIME 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																			
TIMES		DATA ON		START DOWN		AT DEPTH		AT SURFACE		PAR S/N		FLUOR S/N		SAMP BOTTLE NUMBERS		ROSETTE #		SALT		NUTS		O2-Morby		O2 Temp		CHL		DOM		ALK (MC)		DIC (MC)		Scotopes		Trace gases		Micro Zoops		Ray Prod		Masha NZ/Ar		D.Sholl Radon		Devol 3-O2			
1		65		✓		251		56		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓					
2		60		✓		57		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓					
3		50		✓		58		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓					
4		40		✓		59		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓					
5		38		✓		60		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓					
6		30		✓		61		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓					
7		25		✓		62		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓					
8		20		✓		63		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓					
9		20		✓		64		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓					
10		15		✓		65		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓					
11		10		✓		66		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓					
12		8		✓		67		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓					
13		5		✓		68		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓					
14		4		✓		69		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓					
15		4		✓		70		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓					
16		0		✓		71		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓					
17																																																	
18																																																	

Notes on Surface Ice Conditions or proximity to ice edge

In polybag

Production Cast

MAX DEPTH = 65 m

VESSEL		CRUISE ID		PROJECT & LEG		SDSB I.D.		STATION DESIGNATION															
USCG Healy		H10701		BEST07		1HE07		53															
CONSC CAST #	DEG	MIN	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 TYPE	BOTTOM DEPTH (m)	STA. NAME/ID	
059601	8	0	11	7	31	7	11	6	21	29	-11.1	1	.	07	*	*	86	10	*	*	*	6070M45E	
SBE 9+		TIMES		JD/TIME																			
PRESS SN		DATA ON		2125																			
PRI TEMP SN		START DOWN		2129																			
SEC TEMP SN		AT DEPTH																					
PRI COND SN		AT SURFACE																					
SEC COND SN		FLUOR S/N		✓																			
FIRED	DEPTH	ROSETTE		SAMPLE BOTTLE NUMBERS		FLUOR S/N	DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devol							
SEQ.	DESIRED	notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL	ALK (MC)	DIC (MC)	b15N	b32S	gases	Zoops	N2/Ar	Radon	3-O2							
1	56			79	*207	-1.7	✓																
2	50			80			✓																
3	40			81			✓			X ¹⁴	X												
4	30			82			✓																
5	20			83			✓																
6	10			84			✓																
7	8			85	*202	*-1.8	✓			X ¹⁴	X												
8	0			86	*261		✓																
9																							
10																							
11																							
12																							
13																							
14																							
15																							
16																							
17																							
18																							

REMARKS
 RoseHe was set down on bottom, some had data but not ending of CTD.
 MAX. DEPTH = 6070M45E

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL		CRUISE ID		PROJECT & LEG		SDSB I.D.		STATION DESIGNATION											
USCG Healy		H10701		BEST07		1HE07		54											
CONSC CAST #	DEG	MIN	LONGITUDE	DEG	MIN	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
0606019	173	43	29	16	A	P	231410.5			07	*	*	71	11	*	*		7470M45	
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 (μEinsteins m ⁻² s ⁻¹) = _____ MAX. DEPTH = 72 m																			
SQ.	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS		CHL.	DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D. Soil	Devol				
1	72		SALT	NUTS	O2-Morby	O2 Temp													
2	60			87	*059	*-04	✓	✓	✓				✓						
3	50			88			✓												
4	40			89			✓	✓											
5	30			90			✓	✓											
6	20			112			✓	✓											
7	10			113			✓												
8	8			114			✓	7											
9	0			115			✓	✓											
10				116			✓												
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			

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 SS

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)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
0616025		48	N	17335	03	W	17	A	P	07	00	37	-11.4			04			173	11				6370	M46

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 = 62 m

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SALT	NUTS	O2-Morphy	O2 Temp	CHL.	DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D. Soil	Devol
1	62		*238	117	*158	*1.5											
2	60			118													
3	50			119													
4	40			120													
5	30			121													
6	20			122													
7	10			123													
8	8			124	*037	*1.7											
9	0			125													
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION													
USCG Healy		H10701		BEST07		1HE07		56													
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) TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												MIN	
062	60	34	31	N	17	3	38	37	W	17	A	P	07	05	34	11	.7	.04	63	14	6870M47
SBE 9+		TIMES		JD/TIME		PAR on Bridge (fEinsteins m-2s-1) =		REMARKS													
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		O2-Mordy		O2 Temp	CHL.	DOM	Melissa ALK (MC)	Tish DIC (MC)	Isotopes δ15N δ32S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D.Sholl Radon	Devol 3-02			
1	63		126																		
2	50		127	039	-1.9																
3	40		128																		
4	30		129																		
5	20		130																		
6	10		131																		
7	8		132	*120	*-1.9																
8	0		*244	133																	
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					
17																					
18																					

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION														
USCG Healy		H10701		BEST07		1HE07		57														
CONSC CAST #	DEG	LATITUDE		DEG	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	
		MIN	SEC		MIN	SEC	DAY	MO	YR	HR												MIN
0636044	44	33	N	17338	88	W	17A	PR	07	07	11	-11	11	03	*	*	62	17	*	*	7270M48	
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 <input checked="" type="checkbox"/> FLUOR S/N <input checked="" type="checkbox"/>																						
PAR on Bridge (μEinsteins m-2s-1) = <u>0.3</u> MAX. DEPTH = _____ m																						
SEQ.	DEPTH DESIRED	ROSETTE notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	Melissa ALK (MC)	Tish DIC (MC)	Isotopes δ15N	δ32S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D. Sholl Radon	Devol 3-O2				
1	65		*262	134	*082	*	✓															
2	50			135			✓															
3	40			136			✓															
4	30			137			✓															
5	20			138			✓															
6	10			139			✓															
7	8			140		*089																
8	0			141			✓															
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						
17																						
18																						

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 58

CONSC CAST # 54.50 LATITUDE 49.32 DEGREE MIN 54.44 N DEGREE MIN 49.48 W DATE JD= 17 APR 07 TIME (GMT) 0926-11.00 WET BULB (°C) -14.7 PRESSURE (mb) 3 SEA STATE * * * VISIBILITY * * * WIND DIRN (deg) 62 WIND SPD (kts) 21 CLOUD (amt) TYPE WEATHER BOTTOM DEPTH (m) 83 STA. NAME/ID 8370949

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

REMARKS PAR on Bridge (uEinsteinens m-2s-1) = MAX. DEPTH = m

SEQ.	DEPTH DESIRED	ROSETTE	SAMPLE BOTTLE NUMBERS			DOM	ALK (MC)	DIC (MC)	δ15N ‰	δ32S ‰	Trace gases	Micro Zoops	Ray Prod	Masha NZ/Air	D.Sholl Radon	Devol 3-02
			notes	SALT	NUTS											
1	75	75	1													
2	70	70	2													
3	60	60	3													
4	50	50	4													
5	40	40	5													
6	30	30	6													
7	20	20	7													
8	10	10	8													
9	0	0	9													
10																
11																
12																
13																
14																
15																
16																
17																
18																

Notes: 222 (Nst) 052 ✓
 Namey did not do Alkali 2 for add DTS top
 and in 3 in water

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 59

CONSC CAST # 04.06
 LATITUDE 49.06
 LONGITUDE 49.39
 DATE JD= 1235
 TIME (GMT) 1235
 DRY BULB (°C) 12.4
 WET BULB (°C) 10.8
 PRESSURE (mb) 1012.8
 SEA STATE 0
 VISIBILITY 10
 WIND DIRN. (deg) 44
 WIND SPD. (kts) 24
 CLOUD (amt) 0
 TYPE 0
 WEATHER 0
 BOTTOM DEPTH (m) 7975
 STA. NAME/ID 0154

DEG MIN
 61 03.94 N
 DEG MIN
 173 49.72 W
 DAY MO YR
 17 APR 07
 HR MIN
 12 40

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

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

FIREDE DEPTH ROSETTE SAMPLE BOTTLE NUMBERS
 SEQ. DESIRED notes SALT NUTS 02-Mordy 02 Temp CHL. DOM ALK (MC) DIC (MC) δ15N δ32S Trace gases Micro Ray Masha D. Shell Devol

SEQ.	DEPTH	ROSETTE	SALT	NUTS	02-Mordy	02 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	δ15N	δ32S	Trace gases	Micro	Ray	Masha	D. Shell	Devol
1	76		239	10														
2	78			11														
3	80			12														
4	50			13														
5	45			14														
6	35			15														
7	20			16														
8	15			17														
9	8			18														
10	G																	
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		

Notes on Surface Ice Conditions or proximity to ice edge
 lots of ~1/4' pressure ridges
 Ice ~ 1 1/2' thick, shows on surface
 SST = -1.638
 SS Sal 31.8

~ 100 m below keel

VESSEL USCG Healy		CRUISE ID H10701		PROJECT & LEG BEST07		DSDB I.D. 1HE07		STATION DESIGNATION 60p	
CONSC CAST #		LATITUDE 14.75		LONGITUDE 42.68		DATE JD=		TIME (GMT) 1512	
DEG MIN		DEG MIN		DAY MO YR		HR MIN		DRY BULB (°C)	
14.75 N		42.68 W		17 APR 07		1516		-10.7	
SBE 9+		TIMES		JD/TIME		WET BULB (°C)		PRESSURE (mb)	
PRESS SN		DATA ON				-13.9		9.99	
PRI TEMP SN		START DOWN				SEA STATE		VISIBILITY	
SEC TEMP SN		AT DEPTH				WIND DIRN.		WIND SPD.	
PRI COND SN		AT SURFACE				(deg)		(kts)	
SEC COND SN		PAR S/N		FLUOR S/N		REMARKS		CLOUD (amt)	
						PAR on Bridge (μEinsteins m ⁻² s ⁻¹) =		TYPE	
						MAX. DEPTH =		WEATHER	
						m		BOTTOM DEPTH (m)	
								76	
								7570M51	
FIRE		DEPTH		ROSETTE		SAMPLE BOTTLE NUMBERS		Melissa	
SEQ.		DESIRED		notes		SALT NUTS		Tish	
1		73				245 19		Isotopes	
2		66						615N	
3		50						632Z	
4		60						gases	
5		30						Zoops	
6		26						Ray	
7		16						Prod	
8		8						Masha	
9		0						D. Shell	
10								Devol	
11									
12									
13									
14									
15									
16									
17									
18									

Notes on Surface Ice Conditions or proximity to ice edge

Surf S - 31.75
 ~ 1/2 hour ice moving to clear area

VESSEL: USCG Healy
 CRUISE ID: H10701
 PROJECT & LEG: BEST07
 DSD8 I.D.: 1HE07
 STATION DESIGNATION: 61

CONSC CAST # _____
 DEG _____ MIN _____
 LATITUDE _____
 DEG _____ MIN _____
 LONGITUDE _____
 DATE: 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: _____

SBE 9+ _____
 TIMES _____
 DATA ON _____
 START DOWN _____
 AT DEPTH _____
 AT SURFACE _____
 REMARKS: PAR on Bridge (μEinsteins m-2s-1) = _____

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

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	Melissa	Tish	Isotopes	Trace gases	Micro Zoops	Ray Prod	Mashta N2/Ar	D. Spoil Radon	Devol 3-02	XND
			SALT	NUTS	O2-Mordy	O2 Temp											
1	45	73	952	27			✓					✓				5101	
2	70	69		28			✓					✓				5102	
3	60	60		29			✓					✓				5103	
4	50	50		30			✓					✓				5104	
5	40	39		31			✓					✓				5105	
6	30	29		32			✓					✓				5106	
7	30	29					✓					✓				5107	
8	20	19		31			✓					✓				5108	
9	20	19					✓					✓				5109	
10	15	15		32			✓					✓				5110	
11	10	11		33			✓					✓				5111	
12	10	11					✓					✓				5112	
13	0	9		34			✓					✓				5113	
14	8	7		35			✓					✓				5114	
15	8	7					✓					✓				5115	
16	4	3		36			✓					✓				5116	
17	0	0		37			✓					✓				5117	
18	0	0					✓					✓				5118	

Notes on Surface Ice Conditions or proximity to ice edge

667

ctd 667

Bottle Position	Date Time	Potemp090C	PRDM	TO90C	Coms/cm	SalDO	Sigma-t005beoxOMn/Kg	Potemp090C	SYCM	
1	Apr 17 2007 16:57:39	-1.1416	72.940	-1.1401	25.817275	31.8887	25.6361	303.756	-1.1416	1440.80
			0.027	0.0002	0.000137	0.0002	0.0002	0.094	0.0002	0.00
2	Apr 17 2007 16:59:16	-1.1424	69.458	-1.1410	25.814960	31.8886	25.6361	303.730	-1.1425	1440.74
			0.027	0.0001	0.000160	0.0002	0.0002	0.072	0.0001	0.00
3	Apr 17 2007 17:00:20	-1.1754	59.694	-1.1742	25.777906	31.8793	25.6294	305.540	-1.1754	1440.42
			0.020	0.0004	0.000324	0.0003	0.0003	0.148	0.0004	0.00
4	Apr 17 2007 17:01:25	-1.6820	49.587	-1.6813	25.267742	31.7279	25.5184	331.592	-1.6820	1437.62
			0.022	0.0012	0.000596	0.0007	0.0006	0.088	0.0012	0.01
5	Apr 17 2007 17:02:30	-1.6903	39.247	-1.6897	25.254029	31.7243	25.5157	332.220	-1.6903	1437.40
			0.022	0.0002	0.000133	0.0002	0.0002	0.105	0.0002	0.00
6	Apr 17 2007 17:03:42	-1.6941	29.103	-1.6937	25.246060	31.7236	25.5152	332.509	-1.6942	1437.22
			0.015	0.0001	0.000147	0.0002	0.0002	0.098	0.0001	0.00
7	Apr 17 2007 17:03:53	-1.6936	29.122	-1.6931	25.246537	31.7236	25.5152	332.515	-1.6936	1437.22
			0.025	0.0004	0.000277	0.0003	0.0003	0.066	0.0004	0.00
8	Apr 17 2007 17:04:54	-1.6965	19.152	-1.6962	25.239376	31.7231	25.5148	332.643	-1.6965	1437.05
			0.021	0.0001	0.000182	0.0003	0.0002	0.106	0.0001	0.00
9	Apr 17 2007 17:05:06	-1.6957	19.142	-1.6954	25.240012	31.7231	25.5148	332.596	-1.6957	1437.05
			0.026	0.0002	0.000156	0.0002	0.0002	0.087	0.0002	0.00
10	Apr 17 2007 17:05:50	-1.6952	15.086	-1.6950	25.238781	31.7233	25.5150	332.746	-1.6952	1436.99
			0.026	0.0001	0.000129	0.0002	0.0002	0.087	0.0001	0.00
11	Apr 17 2007 17:06:44	-1.6964	11.185	-1.6962	25.235839	31.7230	25.5148	332.696	-1.6964	1436.92
			0.023	0.0001	0.000199	0.0003	0.0002	0.107	0.0001	0.00
12	Apr 17 2007 17:06:57	-1.6967	11.184	-1.6965	25.235735	31.7232	25.5149	332.691	-1.6967	1436.92
			0.023	0.0002	0.000239	0.0002	0.0002	0.093	0.0003	0.00
13	Apr 17 2007 17:07:47	-1.6972	9.296	-1.6971	25.234407	31.7231	25.5148	332.661	-1.6972	1436.88
			0.022	0.0002	0.000182	0.0003	0.0002	0.095	0.0002	0.00
14	Apr 17 2007 17:08:28	-1.6967	7.244	-1.6966	25.233812	31.7230	25.5148	332.678	-1.6967	1436.85
			0.023	0.0002	0.000163	0.0003	0.0002	0.083	0.0002	0.00
15	Apr 17 2007 17:08:44	-1.6974	7.240	-1.6973	25.233456	31.7232	25.5150	332.793	-1.6974	1436.85
			0.023	0.0004	0.000247	0.0004	0.0003	0.097	0.0004	0.00
16	Apr 17 2007 17:09:30	-1.7003	3.065	-1.7002	25.229346	31.7232	25.5150	332.710	-1.7002	1436.77
			0.025	0.0002	0.000187	0.0003	0.0002	0.111	0.0002	0.00

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSDB I.D. 1HE07 STATION DESIGNATION 62

CONSC CAST #	DEG	MIN	LATITUDE	DEG	MIN	LONGITUDE	DATE	JD=	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	
068	61	33	.61 N	173	42	.73 W	17	A	P	R	0	7	20	04	-12.1		96	*		110	24	*	*	7270M53	

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) = 1090
 MAX. DEPTH = m

FIRE	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS			DOM	Melissa	Trish	Isotopes	Trace	Micro	Ray	Masha	D. Snoll	Devol
SEQ.	DESIRED	notes	SALT	NUTS	02-Mordy	02 Temp	CHL.	ALK (MC)	DIC (MC)	gases	Zoops	Prod	N2/Ar	Radon	3-02
1	69			38											
2	60			39		091	-1.9								
3	50			40											
4	40			41											
5	30			42											
6	20			43											
7	10			44											
8	8			45	*		*								
9	0			46		088	-1.8								
10															
11															
12															
13															
14															
15															
16															
17															
18															

Had to use water gun on bottles #8,9

Notes on Surface Ice Conditions or proximity to ice edge

heavy ice + freezing

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DS08 I.D. 1HE07
 STATION DESIGNATION 63

CONSC CAST # 069
 DEG 61
 MIN 43
 LATITUDE 64 N
 DEG 173
 MIN 51
 LONGITUDE 28 W
 DATE JD= 17A
 MO PR
 YR 07
 HR 21
 MIN 46
 TIME (GMT) 12.1
 DRY BULB (°C)
 WET BULB (°C)
 PRESSURE (mb) 96
 SEA STATE *
 VISIBILITY *
 WIND DIRN (deg) 356
 WIND SPD (kts) 33
 CLOUD (amt) * * *
 WEATHER
 BOTTOM DEPTH (m) 7170
 STA. NAME/ID 54

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 on Bridge (Einstein's m-2s-1) = 1990
 MAX. DEPTH = 67 m

FLUOR S/N
 PAR S/N

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				CHL.	DOM	Melissa ALK (MC)	Tish DIC (MC)	Isotopes b3N b32S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D Shoil Radon	Devol 3-02
			SALT	NUTS	O2-Mordy	O2 Temp											
1	67		*263	47	*097	*1.8											
2	60			48													
3	SD			49													
4	SD			50													
5	20			51													
6	10			52													
7	8			53		*212											
8	0			54													
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	

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
 64

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 DRN (deg)	WIND SPD (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
0706151.73		N	17406.82		W	18	A	P	07	01	19	11.0			97			08	629			006770M	CS

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

SEQ.	DEPTH DESIRED	ROSETTE notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	Melissa ALK (MC)	Tish DIC (MC)	Isotopes δ13N δ32S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D.Sholl Radon	Dewol 3-O2
1	✓ 6.7			55	0.82	*-1.8											
2	✓ 6.0			56													
3	✓ 5.0			57			✓										
4	✓ 4.0			58			✓										
5	✓ 3.0			59			✓										
6	✓ 2.0			60			✓										
7	✓ 1.0			61			✓										
8	8			62	150	-1.8											
9	0			*269	63		✓										
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DS06 ID. 1HE07 STATION DESIGNATION 65

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

02161 56.60 N 17421.85 W 18 APR 07 0240-11.2 98 35230 #370MS6

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

REMARKS PAR on Bridge (Einstein's m-2s-1) = 1460

MAX. DEPTH = 68 m

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	Melissa ALK (MC)	Tish DIC (MC)	Isotopes δ15N δ33S	Trace Gases	Micro Zoops	Ray Prod	Masha N2/Ar	D.Sholl Radon	Devol 3-02
			SALT	NUTS	O2 Mordy	O2 Temp										
1	68		270	64	018	-1.8	✓				X					
2	60			65												
3	50			66											DVF	
4	40			67							X					
5	30			68												
6	20			69												
7	10			70												
8	8			71	024	-1.5	✓							X		
9	0			72			✓				X					
10																
11																
12																
13																
14																
15																
16																
17																
18																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DS08 I.D. 1HE07 STATION DESIGNATION 66

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

0726201.59N 17439.52W 18 APR 07 0609-11.2 00 33032 7470M52

SBE 9+ TIMES JD/TIME PRESS SN DATA ON PAR on Bridge (μEinstein's m²s⁻¹) = 133

PRI TEMP SN AT DEPTH SEC TEMP SN AT SURFACE AT SURFACE FLUOR S/N 02

SEC COND SN PAR S/N MAX DEPTH = 70 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.Sholl Radon	Devol 3-02
			SALT	NUTS	02-Morby										
1	70			1	*193		*1.7								
2	60			2											
3	50			3											
4	40			4											
5	30			5											
6	20			6											
7	10			7											
8	8			8		*235	*-1.8								
9	0			9		*264									
10															
11															
12															
13															
14															
15															
16															
17															
18															

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST02
 DS08 I.D. 1HE07
 STATION DESIGNATION 67

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
0713	62	11	42 N	174	44	04 W	18	A	P	07	07	44	11	1		01			330	27				70	PA70MST

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 (µEinsteins m-2s-1) = 2
 MAX. DEPTH = 70 m

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	Melissa ALK (MC)	Tish DIC (MC)	Isotopes 013N 032S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D Sholl Radon	Devol 3-02
			SALT	NUTS	02-Mordy										
1	70		*	10	*179	*1.8									
2	60			11											
3	50			12											
4	40			13											
5	30			14											
6	20			15											
7	10			16											
8	8			17											
9	0			17											
10															
11															
12															
13															
14															
15															
16															
17															
18															

Notes on Surface Ice Conditions or proximity to ice edge

VEISSL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 ISDB I.D. 1HE07
 STATION DESIGNATION 68

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
074	62	11	56 N	169	51	00 W	19	A	P	07	01	44	-11.6			08			270	17			42	SLD

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 (μEinstens m-2s-1) =
 PAR S/N
 FLUOR S/N
 MAX. DEPTH = 56 m

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	Isotopes δ15N δ33S	Trace gases	Micro Zoops	Ray Prod	Masha NZ/Ar	D. Sholl Radon	Devol 3-02
			SALT	NUTS	O2-Mordy	O2 Temp										
1	✓ 36			✓ 18	174	-2.0										
2	✓ 36		*240													
3	✓ 30			✓ 19												
4	✓ 30															
5	✓ 23															
6	✓ 20			✓ 20												
7	✓ 20															
8	✓ 15															
9	✓ 12															
10	✓ 10															
11	✓ 10			✓ 22												
12	✓ 9					176	-1.9									
13	✓ 6															
14	✓ 3															
15	✓ 0			✓ 21												
16																
17																
18																

Notes on Surface Ice Conditions or proximity to ice edge
 SLD
 * 2 O₂ samples mid + 5e sw: threaded

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSDB I.D. 1HE07 STATION DESIGNATION 69

CONSC CAST # 11.96 15.48 DATE JD= 0833 TIME (GMT) 0840 DRY BULB (°C) 11.5 WET BULB (°C) -14.8 PRESSURE (mb) 09 SEA STATE * * VISIBILITY * * WIND DIRN. (deg) 270 WIND SPD. (kts) 1 CLOUD (amt) * * * * WEATHER * * * * BOTTOM DEPTH (m) 45 STA. NAME/ID 5L62

DEG MIN LATITUDE 178 15.49 W 19 APR 07 0840-11.5-14.8 09 270 1 45 5L62

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

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

FIRED SEQ	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	Melissa ALK (MC)	Tish DIC (MC)	Isotopes 813N 8323	Trace gases	Micro Zoops	Ray Prod	Masha IN2/Ar	D.Shoil Radon	Devol 3-02
			SALT	NUTS	O2-Mordy	O2 Temp										
1	41	-	241	✓23												
2	30	-		✓24												
3	26	-		✓25												
4	26	-			190	-1.8									✓	
5	8	-			197	-1.8										
6	8	✓		✓26												
7	0	-		✓73												
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DS08 I.D. 1HE07
 STATION DESIGNATION 70

CONSC CAST # 12.12
 LATITUDE 39.40
 DEGREE MIN 12.10 N
 DEGREE MIN 39.40 W
 DATE JD= 19 APR 07
 TIME (GMT) 1012
 DRY BULB (°C)
 WET BULB (°C)
 PRESSURE (mb)
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg)
 WIND SPD. (kts)
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 43.5
 STA. NAME/ID SL03

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 (µEinsteins m-2s-1) =
 REMARKS SCs not working

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	Melissa ALK (MC)	Tish DIC (MC)	Isotopes ³¹ SN ³³ Zn	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D. Sholl Radon	Devol 3-02
			SALT	NUTS	O2-Mordy										
1	39		253	74	202-1.8										
2	25			76											
3	32			75											
4	10			77											
5	8				907-1.7										
6	0			78											
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															

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 Z1

CONSC 11.97
 CAST # 04.61
 DEPTH 1135
 LATITUDE 11.93 N
 LONGITUDE 171.44 W
 DATE JD= 19 APR 07
 TIME (GMT) 1141-11.7
 DRY BULB (°C) -15.0
 WET BULB (°C) 10
 PRESSURE (mb) * *
 SEA STATE * *
 VISIBILITY * *
 WIND DIRN. (deg) 40
 WIND SPD. (kts) * * *
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 48
 STA. NAME/ID SLΦ14

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 AT SURFACE

FLUOR S/N
 PAR S/N
 MAX. DEPTH = m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	Isotopes δ13N δ33S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D Sholl Radon	Devol 3-02
			SALT	NUTS	O2-Mordy	O2 Temp										
1	411			79 f	V219	-2.0										
2	30			85 f												
3	20			81 f												
4	10			82 f												
5	0					V059	-2.0									
6	0			83 f												
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL		CRUISE ID		PROJECT & LEG		DSDB ID		STATION DESIGNATION									
USCG Healy		H10701		BEST07		1HE07		72									
CONSC CAST #	DEG	MIN	LONGITUDE	DATE	JD =	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
07862	11.83	27.93	17128.56	19	APR 07	1403	14.6	15.0	10			45	4			48	485105
SBE 9+		TIMES		JD/TIME		PAR on Bridge (μEinsteins m-2s-1) =		REMARKS		MAX. DEPTH =							
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															
FIRE	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS		FLUOR S/N	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D. Sholl	Devol			
SEQ.	DESIRED	notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL	DOM	ALK (MC)	DIC (MC)	δ15N	δ32S	gases	Zoops			
1	44		265	SKF	1003	1.9	✓										
2	40			SKF			✓										
3	35			SKF			✓										
4	30			SKF			✓										
5	20			SKF			✓										
6	10			SKF			✓										
7	8			SKF			✓										
8	0			SKF			✓										
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	

O₂ bottle broke during shaking later

Notes on Surface Ice Conditions or proximity to ice edge
 Floating ice at surface

SSS = 32.43
 Bottom = 32.8

~ 15 minutes clearing lake
 ice surrounding ship

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSD8 I.D. 1HE07 STATION DESIGNATION 73

CONSC CAST # DEG MIN LONGITUDE DEG MIN 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

0796211.410 N 171541.01 W 19 APR 07 1555-174 . 10 * * 08203 * * * 48 546

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

FIRE DEPTH ROSETTE SAMPLE BOTTLE NUMBERS
 SEQ. DESIRED notes SALT NUTS Oxygen O2 Temp CHL. DOM Prod ALK (MC) DIC (MC) N15 P32 NO3 Isotopes Comment or Others

1	43			491	1037-1.9	✓														
2	40			492		✓														
3	30			493		✓														
4	20			494		✓														
5	10																			
6	8				1120-1.9															
7	0			495		✓														
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				

Notes on Surface Ice Conditions or proximity to ice edge

FL ~ 2V

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 STATION DESIGNATION 74

DSOB I.D. 1HE07

CONSC CAST # DEG MIN LONGITUDE DEG MIN DATE JD= 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

08062211.99N 17212.74W 19 APR 07 1734 108 7 55 567

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

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

FIBED 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. Stoll Radon	Devol 3-O2
			SALT	NUTS	O2-Mordy	O2 Temp											
1	50		259	96	039	-1.9	✓										
2	40			97			✓										
3	30			98			✓										
4	20			99			✓										
5	10			100			✓										
6	8				032	-1.9											
7	0				101		✓										
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	

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 75

CONSC CAST # 16224.34 N
 DEG MIN
 LONGITUDE 17217.54 W
 DEG MIN
 DATE JD= 19 APR 07
 DAY MO YR
 TIME (GMT) 2234-8.5
 HR MIN
 DRY BULB (°C)
 WET BULB (°C)
 PRESSURE (mb) 110
 SEA STATE * *
 VISIBILITY * *
 WIND DIRN. (deg) 116
 WIND SPD. (kts) 4
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 51
 STA. NAME/ID SLØ7N1

SBE 9+ TIMES
 PRESS SN DATA ON
 PRI TEMP SN START DOWN
 SEC TEMP SN AT DEPTH 2234
 PRI COND SN AT SURFACE
 SEC COND SN PAR S/N
 FLUOR S/N
 PAR on Bridge (ultrastars m-2s-1) = 2240
 REMARKS
 MAX. DEPTH = 47 m

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	Melissa ALK (MC)	Tish DIC (MC)	Isotopes 813N 832S	Trace gases Zoops	Micro Ray Prod	Masha N2/Ar	D. Soil Radon	Devol 3-O2
			SALT	NUTS	02-Mordy									
1	47			102	*211	*1.9								
2	40		254	103										
3	30			104										
4	20			105										
5	10			106										
6	8			107	*172	*1.9								
7	0			108										
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														

Fill All

Ø 02

X

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 76

CONSC CAST # _____
 DEG MIN LATITUDE _____
 DEG MIN LONGITUDE _____
 DATE JD = _____
 TIME (GMT) _____
 DRY BULB _____
 WET BULB _____
 PRESSURE (mb) _____
 SEA STATE _____
 VISIBILITY _____
 WIND DIRN. (deg) _____
 WIND SPD. (kts) _____
 CLOUD (amt) _____
 TYPE _____
 WEATHER _____
 BOTTOM DEPTH (m) _____
 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 _____
 PAR S/N _____
 FLUOR S/N _____
 PAR on Bridge (Einstein's m⁻²s⁻¹) = 2260
 REMARKS Red cast
 MAX DEPTH = _____ m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			CHL.	DOM	ALK (MC)	Tish (MC)	Isotopes 615N 632S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D.Sholl Radon	Devol 3-O2
			SALT	NUTS	O2-Morqy											
1	✓ 48				147	-1.9	✓									
2	✓ 48				109											
3	✓ 40				110											
4	✓ 30				111											
5	✓ 30															
6	✓ 20															
7	✓ 20															
8	✓ 10				113											
9	✓ 10															
10	✓ 8					153	-1.9									
11	✓ 0				114											
12	✓ 0				247											
13																
14																
15																
16																
17																
18																

(Handwritten circled notes)
 7/11/07
 411

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BESTOZ DSDB I.D. 1HE07 STATION DESIGNATION 77

CONSC CAST # 0836251.17 N 17218.68 W 20 APR 07 0231 -7.3 . . . 09 186 3 56 SL 07 N 3

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

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 AT SURFACE

PAR on Bridge (µEinstens m-2s-1) = 2050

FLUOR S/N 502

MAX. DEPTH = 52 m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	Melissa ALK (MC)	Tish DIC (MC)	Isotopes δ15N δ32S	Trace gases	Micro Zoops	Ray Prod	Masha NZ/Ar	D. Sholl Radon	Devol 3-02
			SALT	NUTS	O2-Mordy										
1	52			1 f	143										
2	40			2 f											
3	30			3 f											
4	20			4 f											
5	10			5 f											
6	8			6 f	161										
7	0			7 f											
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															

Notes on Surface Ice Conditions or proximity to ice edge

psym conditions: mixed open water and thin ice

VESSEL USCG Healy	CRUISE ID H10701	PROJECT & LEG BEST07	DSOB I.O. 1HE07	STATION DESIGNATION 78
CONSC CAST #	DEG MIN	LATITUDE	DEG MIN	LONGITUDE
084	62	11.48 N	172	40.07 W
SBE 9+	TIMES	DATE JD=	DAY	MO
PRESS SN	DATA ON	PAR on Bridge (Einstein's m-2s-1) =	HR	MIN
PRI TEMP SN	START DOWN		DRY BULB	WET BULB
SEC TEMP SN	AT DEPTH		(°C)	(°C)
PRI COND SN	AT SURFACE		PRESSURE	SEA STATE
SEC COND SN	PAR S/N		(mb)	* * *
	FLUOR S/N		VISIBILITY	WIND DIRN.
			(deg)	(kts)
			WIND SPD.	CLOUD (amt)
			* * *	TYPE
			WEATHER	BOTTOM DEPTH
				(m)
				STA. NAME/ID
				57 SL 88

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	Tish DIC (MC)	Isotopes 615N 332S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D. Snoll Radon	Devot 3-02
			SALT	NUTS	O2-Mordy	O2 Temp										
1	50'	ROSETTE notes 255	8	9	1089	17	✓	VV	VV	NO ₃		✓				
2	45'		9	10			✓	VV	VV	NO ₃		✓				
3	40'		10	11			✓	VV	VV	NO ₃		✓				
4	30'		11	12			✓	VV	VV	NO ₃		✓				
5	20'		12	13			✓	VV	VV	NO ₃		✓				
6	15'		13	14			✓	VV	VV	NO ₃		✓				
7	10'		14	15			✓	VV	VV	NO ₃		✓				
8	8'		15	16			✓	VV	VV	NO ₃		✓				
9	8'		16	17			✓	VV	VV	NO ₃		✓				
10	8'		17	18			✓	VV	VV	NO ₃		✓				
11	8'		18	19			✓	VV	VV	NO ₃		✓				
12	4'		19	20			✓	VV	VV	NO ₃		✓				
13	4'		20	21			✓	VV	VV	NO ₃		✓				
14	0'		21	22			✓	VV	VV	NO ₃		✓				
15	0'		22	23			✓	VV	VV	NO ₃		✓				
16																
17																
18																

Notes on Surface Ice Conditions or proximity to ice edge
 The coast - given to the S/D used as a ref. but am, no data
 Range of 0ft cover in ice + on bottom. Saw some broken ice, then cleared. - Let's see how
 range of 0ft cover in ice + on bottom. Saw some broken ice, then cleared. - Let's see how
 range of 0ft cover in ice + on bottom. Saw some broken ice, then cleared. - Let's see how

Handwritten signature or initials at the bottom right of the page.

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DS08 I.D. 1HE07
 STATION DESIGNATION 79

CONSC CAST # _____
 DEG MIN LATITUDE _____
 DEG MIN LONGITUDE 173
 DATE JD= _____
 DAY MO YR _____
 HR MIN TIME (GMT) 1203
 DRY BULB (°C) _____
 WET BULB (°C) _____
 PRESSURE (mb) 10
 SEA STATE * * *
 VISIBILITY * * *
 WIND DIRN (deg) 265
 WIND SPD (kts) 06
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 61
 STA. NAME/ID SL 49

SBE 9+ _____
 PRESS SN _____
 PRI TEMP SN _____
 SEC TEMP SN _____
 PRI COND SN _____
 SEC COND SN _____
 DATA ON _____
 START DOWN _____
 AT DEPTH _____
 AT SURFACE _____
 PAR S/N _____
 FLUOR S/N _____
 REMARKS
 PAR on Bridge (μEinstein's m-2s-1) = _____
 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	02-Mordy									
1	55			1	V118									
2	50			2										
3	45													
4	40			3										
5	35													
6	30			4										
7	20			5										
8	10			6										
9	8													
10	0			7										
11														
12														
13														
14														
15														
16														
17														
18														

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 50

CONSC CAST # 12.12
 LATITUDE 31.64
 DEGREE MIN 17 33 11.56 W
 DATE JD = 2007 APR 07
 TIME (GMT) 1331
 DRY BULB (°C) 9.3
 WET BULB (°C) 10.8
 PRESSURE (mb) 1010
 SEA STATE * * *
 VISIBILITY * * *
 WIND DIRN. (deg) 247
 WIND SPD. (kts) 7
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 62
 STA. NAME/ID SL14

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

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

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

PAR on Bridge (μEinsteins m-2s-1) = _____
 PAR S/N _____
 FLUOR S/N _____
 MAX. DEPTH = _____ m

FIRE	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS				DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devol
			SALT	NUTS	O2-Mordy	O2 Temp										
1	56		242	18	441	-7.8										
2	50			19												
3	40			20	5											
4	30			21	5											
5	20			22	5											
6	10			23	5											
7	8			24	5											
8	6			24	5											
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DS08 I.D. 1HE07
 STATION DESIGNATION 81

CONSC CAST # 12.28
 LATITUDE 56.94
 DEGREE MIN 17356.95
 LONGITUDE 95 W 24 APR 07
 DATE JD = 1542
 TIME (GMT) 1545
 DRY BULB -9.3
 WET BULB -10.2
 PRESSURE 1010
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 235
 WIND SPD. (kts) 8
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 63
 STA. NAME/ID 49 52111

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 (µEinsteins m-2s-1) = _____
 MAX. DEPTH = _____ m

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	Melissa ALK (MC)	Tish DIC (MC)	Isotopes δ15N δ32S	Trace gases	Micro Zoops	Ray Prod	Masha INZ/Ar	D. Sholl Radon	Devol 3-O2
			SALT	NUTS	O2-Mordy	O2 Temp										
1	58		231	24												
2	50			25												
3	40			26												
4	30			27												
5	20			28												
6	10			29												
7	0															
8	0															
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																

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 82

CONSC CAST # 11.62
 LATITUDE 19.34
 DEGREE MIN 17 19 28 W
 DATE JD= 2007 APR 07
 TIME (GMT) 1819
 DRY BULB (°C) 7.3
 WET BULB (°C) 8.8
 PRESSURE (mb) 10.0
 SEA STATE * * *
 VISIBILITY * * *
 WIND DIRN. (deg) 214
 WIND SPD. (kts) 3
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 71
 STA. NAME/ID SL12

DEG 62 MIN 11.65 N
 DEG 17 MIN 19.28 W
 DAY 2 MO APR YR 07
 HR 18 MIN 19
 (°C) 7.3 (°C) 8.8 (mb) 10.0 * * * (deg) 214 (kts) 3 * * * (m) 71

SEB 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 m²s⁻¹) = _____
 REMARKS Prod cast
 MAX. DEPTH = _____ m

FIRE	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS				FLUOR S/N	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D Shoff	Devol			
SEQ.	DESIRED	notes	SALT	NUTS	02-Mordy	02 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	613N	6323i	gases	Zoops	Prod	N2/Ar	Radon	3-02	
1	65	leaker		31															
2	65			232															
3	50	leaker		32							X								
4	40	leaker		33							X								
5	30			34							X								
6	26			5501															
7	20			35							X								
8	17			5502															
9	13			5503															
10	10																		
11	10			36															
12	8																		
13	7																		
14	3																		
15	0																		
16	0																		
17																			
18																			

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 83

CONSC CAST #	DEG	MIN	LONGITUDE	DEG	MIN	DATE	JD =	MO	YR	HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
0896212.75 N	174	45.17 W	20	07	21	04	-6.6			11				11			192	3			74	SC113

SBE 9+ TIMES DATA ON JD/TIME
 PRESS SN DATA ON 2102
 PRI TEMP SN AT DEPTH 2104
 SEC TEMP SN AT SURFACE
 SEC COND SN AT SURFACE
 PAR S/N 1 PAR S/N
 FLUOR S/N
 PAR on Bridge (jeinsteins m-2s-1) = 2130
 MAX. DEPTH = 70 m

SEQ	DEPTH DESIRED	ROSETTE notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL	DOM	Melissa	Trish	Isotopes	Trace	Micro	Ray	Masha	D. Sholl	Devol
1	70			38 F	* 203	* -1.9			VV	VV	X						
2	60			39 F					VV	VV	X						
3	50			40 F					VV	VV							
4	40			41 F					VV	VV							
5	30			42 F					VV	VV							
6	20			43 F					VV	VV	X						
7	10			44 F					VV	VV							
8	8			45 F	* 119	* -1.7			VV	VV	X						
9	0			46 F					VV	VV							
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DS08 I.D. 11E07 STATION DESIGNATION 84

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

0906211.84 N 17510.42 W 21 APR 07 0230-5.1 11 192 5 79 SL14

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

PAR on Bridge (Einstein's m-2s-1) = 2080

REMARKS

MAX DEPTH = 75 m

FIRID	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS			DOM	ALK (MC)	Tish	DIC (MC)	Isotopes	Trace	Micro	Ray	Masha	D. Soil	Devol
			SALT	NUTS	O2-Mordy											
1	75		*234	54												
2	60			55												
3	50			56												
4	40			57												
5	30			58												
6	20			59												
7	10			60												
8	8			61												
9	0			62												
10																
11																
12																
13																
14																
15																
16																
17																
18																

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 85

CONSC CAST # 09116212.46 N
 LATITUDE 17532.95 W
 DATE JD= 21 APR 07
 TIME (GMT) 0431-2.9
 DRY BULB (°C) .
 WET BULB (°C) .
 PRESSURE (mb) 11
 SEA STATE * *
 VISIBILITY * *
 WIND DIRN. (deg) 163
 WIND SPD. (kts) 3
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 85
 STA. NAME/ID 5L115

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 _____
 PAR on Bridge (μEinsteins m-2s-1) = 1520
 REMARKS _____
 MAX. DEPTH = 81 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.Sholl Radon	Devol 3-02
			SALT	NUTS	02-Mordy				02 Temp	CHL.	δ15N						
1	81			63	*088	*1.8											
2	70			64													
3	60			65													
4	50			66													
5	40			67													
6	30			68													
7	20			69													
8	10			70													
9	8			71	*200	*1.7											
10	0		*	72													
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BESTOZ
 DSD8 I.D. 1HE07
 STATION DESIGNATION 86

CONSC CAST # 0926212.69 N
 DEG MIN
 LATITUDE 175 57.38 W
 DEG MIN
 LONGITUDE 38 W 21 A P R 07
 DATE JD = 0751-5.6
 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 93 SL16

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 (ultrastains m-25-1) = 0
 REMARKS P and Cast
 MAX. DEPTH = m

FIBED SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	Melissa ALK (MC)	Tish DIC (MC)	Isotopes 615N 832E	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D. Snoll Radon	Devol 3-02
			SALT	NUTS	O2-Mordy	O2 Temp										
1	84		236	23												
2	84															
3	70		74													
4	60		wisline													
5	60			756												
6	50			766												
7	40			776												
8	40															
9	35		V1													
10	20		V2													
11	20			786												
12	80															
13	17		V3													
14	13		V4													
15	9		V5	796	091-12											
16	4		V6													
17	0		V7													
18	0			806												

Notes on Surface Ice Conditions or proximity to ice ledge
 097-117

1/2

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSOB I.D. 1HE07 STATION DESIGNATION 86

CONSC CAST # 13.12 56.55 DATE JD= 0905 TIME (GMT) 0905 DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY WIND DIRN. (deg) 46 WIND SPD. (kts) 5 CLOUD (amt) TYPE WEATHER BOTTOM DEPTH (m) 96 STA. NAME/ID SL16

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

0936 213.12 N 17556.55 W 21 APR 07 0902-5.4-7.5 11 46 5

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

DATA ON START DOWN AT DEPTH AT SURFACE PAR S/N FLUOR S/N

REMARKS Radon MAX DEPTH = m

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	Melissa ALK (MC)	Tish DIC (MC)	Isotopes 615N 632Si	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D/Shoif Radon	Devol 3-O2
			SALT	NUTS	O2-Mordy										
1	85				212									✓	
2	87				228									✓	
3	87													✓	
4	87													✓	
5	80	✓												✓	
6	80	✓												✓	
7	67	✓												✓	
8	67	✓												✓	
9	60	✓												✓	
10	60	✓												✓	
11	50	✓												✓	
12	50	✓												✓	
13	40	✓												✓	
14	40	✓												✓	
15	35	✓												✓	
16	30	✓												✓	
17	20													✓	
18	20													✓	

7 E right aboi
8 } pycnodi

Notes on Surface Ice Conditions or proximity to ice edge

CONTINUED

2/2

Checked

VESSEL USCG Healy		CRUISE ID H10701		PROJECT & LEG BEST07		DSDB I.D. 1HE07		STATION DESIGNATION													
CONSC CAST #	DEG	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
		MIN	SEC	MIN	SEC	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)	
G93																					5616
SBE 9+		LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
PRESS SN		LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
PRI TEMP SN		LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
SEC TEMP SN		LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
PRI COND SN		LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
SEC COND SN		LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
FIRE		LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
SEQ. DESIRED		LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	ROSETTE	LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	notes	LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	SALT	LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	NUTS	LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	02-Moody	LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	02 Temp	LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	CHL.	LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	DOM	LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	MeIissa	LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	Tish	LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	Isotopes	LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	Trace	LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	Micro	LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	Ray	LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	Prod	LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	Masha	LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	N2/Ar	LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	Radon	LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	D. Soil	LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	Devol	LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	3-02	LATTITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	

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 87

CONSC CAST # 37.57 LATITUDE 50.28 LONGITUDE DATE JD= 1416 TIME (GMT) DRY BULB WET BULB 850% PRESSURE SEA STATE VISIBILITY WIND DIRN WIND SPD. CLOUD (amt) TYPE WEATHER BOTTOM DEPTH STA. NAME/ID

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

0946137.49N 17650.33W 21 APR 07 1416 -6.5-8.6 27 8 111 DL01

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

REMARKS PAR on Bridge (μEinsteins m-2s-1) =

MAX DEPTH = m

SEQ.	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS			DOM	ALK (MC)	Tish	DIC (MC)	Isotopes	Trace	Micro	Ray	Masha	D Sholl	Devol
			SALT	NUTS	02-Mordy											
1	167		225	82	1214	01										
2	190			83												
3	90			84												
4	80			85												
5	80			86												
6	70			87												
7	60			88												
8	50			89												
9	40			90												
10	30			91												
11	20			92												
12	10			93												
13	8															
14	8			94												
15																
16																
17																
18																

Notes on Surface Ice Conditions or proximity to ice edge

SS Sal = 31.97

in thin ~ brown ice
large pool for etd

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 OSD8 I.D. 11E07
 STATION DESIGNATION 88

CONSC CAST # 02.72
 LATITUDE 43.13
 DEGREE MIN 02.72 N
 DEGREE MIN 43.13 W
 DATE JD= 21 APR 07
 TIME (GMT) 1851
 DRY BULB (°C) 7.4
 WET BULB (°C) 9.3
 PRESSURE (mb) 1008
 SEA STATE * * *
 VISIBILITY * * *
 WIND DIRN. (deg) 46
 WIND SPD. (kts) 9
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 138
 STA. NAME/ID 0402

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 _____
 FLOOR S/N _____

REMARKS
 PAR on Bridge (Einstein's m-2s-1) = _____
 MAX. DEPTH = 135 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.Sholl Radon	Devol 3-02
			SALT	NUTS	O2-Mordy										
1	135	✓	95	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2	135	✓	226	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	100	✓	did not fire			✓	✓	✓	✓	✓	✓	✓	✓	✓	
4	100	✓	96	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
5	70	✓	97	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
6	70	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7	50	✓	98	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
8	50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
9	40	✓	99	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
10	35	✓	100	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
11	35	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
12	30	✓	101	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
13	30	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
14	20	✓	102	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
15	10	✓	103	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
16	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
17	0	✓	104	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
18	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Notes on Surface Ice Conditions or proximity to ice edge
 Filter 50m and above
 surrounded by thin, ~1cm ice

VESSEL		CRUISE ID		PROJECT & LEG		DSD8 I.D.		STATION DESIGNATION																	
USCG Healy		H10701		BEST07		1HE07		89																	
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) TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID							
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR											MIN						
0966028	57	N	17832	45	W	22	A	PR	07	00	31	-5.2			07			35	17					201	DL03
SBE 9+		TIMES		JD/TIME		PAR on Bridge (λEinsteins m ⁻² s ⁻¹) = 1960		REMARKS																	
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		7		FLUOR S/N		1502																	
FIRID	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS		FLUOR S/N <th>Melissa</th> <th>Fish</th> <th>Isotopes</th> <th>Trace</th> <th>Micro</th> <th>Ray</th> <th>Masha</th> <th>D. Soil</th> <th>Devol</th>	Melissa	Fish	Isotopes	Trace	Micro	Ray	Masha	D. Soil	Devol											
SEQ.	DESIRED	notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	615N	8325	gases	Zoops	Prod	NZ/Ar	Radon	3-02							
1	198		227	105	*193	*+1.3	✓		✓	✓	✓														
2	150			100	*236	*+1.2	✓		✓	✓	✓														
3	100			107	*179	*+1.0	✓		✓	✓	✓														
4	75			108			✓		✓	✓	✓														
5	60			109			✓		✓	✓	✓														
6	50			110	*235	*+1.3	✓		✓	✓	✓														
7	40			111			✓		✓	✓	✓														
8	30			112			✓		✓	✓	✓														
9	20			113			✓		✓	✓	✓														
10	10			114			✓		✓	✓	✓														
11	8			115	*243	*-0.7	✓		✓	✓	✓														
12	0			116			✓		✓	✓	✓														
13																									
14																									
15																									
16																									
17																									
18																									

Notes on Surface Ice Conditions or proximity to ice edge

Scattered bits, bigger nilsons further off

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSDB ID. 11E07 STATION DESIGNATION 90

CONSC CAST # 097 DEG 59 MIN 53.95 N LONGITUDE DEG 179 MIN 26.35 W DATE JD= 22 APR 07 HR 16 MIN 10 DRY BULB (°C) 14.4 WET BULB (°C) 7.6 PRESSURE (mb) 03 SEA STATE * * VISIBILITY * * WIND DIRN. (deg) 36 WIND SPD. (kts) 24 CLOUD (amt) * * WEATHER * * BOTTOM DEPTH (m) 2320 STA. NAME/ID M1N20

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

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			O2-Mordy	O2 Temp	CHL.	DOM	ALK (MC)	Tish DIC (MC)	Isotopes		Trace		Ray Prod	Masha N2/Ar	D.Sholl Radon	Devol 3-O2
			SALT	NUTS								b15N	b22C	gases	Zoops				
1	2500 ✓			1		1413	16	✓			✓	✓	✓						
2	2000 ✓			2		159	1.7	✓			✓	✓	✓						
3	1500 ✓			3		222	2.0	✓			✓	✓	✓						
4	1000 ✓			4		039	2.5	✓			✓	✓	✓						
5	750 ✓			5		153	3.0	✓			✓	✓	✓						
6	500 ✓			6		144	3.3	✓			✓	✓	✓						
7	400 ✓			7		118	3.5	✓			✓	✓	✓						
8	300 ✓			8		142	3.8	✓			✓	✓	✓						
9	250 ✓			9				✓			✓	✓	✓						
10	200 ✓			10		89	1.7	✓			✓	✓	✓						
11	150 ✓			11				✓			✓	✓	✓						
12	100 ✓			12		050	1.6	✓			✓	✓	✓						
13	75 ✓			13				✓			✓	✓	✓						
14	50 ✓			14		149	2.2	✓			✓	✓	✓						
15	40 ✓			15		136	2.2	✓			✓	✓	✓						
16	33 ✓			16		19		✓			✓	✓	✓						
17	30 ✓			17		145	2.3	✓			✓	✓	✓						
18	27 ✓			18				✓			✓	✓	✓						
19	20 ✓			19				✓			✓	✓	✓						
20	13 ✓			20				✓			✓	✓	✓						
21	10 ✓			21		23	2.13	✓			✓	✓	✓						
22	8 ✓			22				✓			✓	✓	✓						
23	0 ✓			23		24	2.16	✓			✓	✓	✓						
24	0 ✓			24				✓			✓	✓	✓						

Notes on Surface Ice Conditions or proximity to ice edge Please >1.8 for active cost

DID NO. FIRE
DID NO. FIRE
DID NO. FIRE
DID NO. FIRE

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSOB I.D. 1HE07 STATION DESIGNATION 91

CONSC CAST # 01985953.32 N 17853.13 W DATE JD= 22 APR 07 TIME (GMT) 1703-5.4 DRY BULB (°C) 1 WET BULB (°C) 1 PRESSURE (mb) 01 SEA STATE * VISIBILITY * WIND DIRN. (deg) 026 WIND SPD. (kts) 29 CLOUD (amt) * * * WEATHER * * * BOTTOM DEPTH (m) 688 MN 19 STA. NAME/ID

SBE 9+ TIMES DATA ON _____ AT SURFACE _____ AT DEPTH _____ AT SURFACE _____ J/D/TIME _____

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

MAX. DEPTH = 650 m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	ALK (MC)	Tish DIC (MC)	Isotopes $\delta^{15}N$ $\delta^{32}S$	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D. Sholl Radon	Devol 3-O2
			SALT	NUTS	02-Nordy										
1	150														
2	150														
3	150														
4	150														
5	150														
6	150														
7	150														
8	150														
9	150														
10	150														
11	150														
12	150														
13	150														
14	150														
15	150														
16	150														
17	150														
18	150														
19	150														
20	150														
21	150														
22	150														
23	150														
24	150														

Notes on Surface Ice Conditions or proximity to ice edge

02

milagruwen. healy. polarisieren. net/messungswert healy

May T at 350

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 STATION DESIGNATION 92

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

099 59 54 . 00 N 178 12. 16 W 22 APR 07 23 12 -3.2 . . . 99 . . . 03 2 25 . . . 146 MW18

SBE 9+ TIMES DATA ON JD/TIME

PRI TEMP SN START DOWN
 SEC TEMP SN AT DEPTH
 PRI COND SN AT SURFACE
 SEC COND SN AT SURFACE

ROSETTE notes SAMPLE BOTTLE NUMBERS SALT NUTS O2-Morphy O2 Temp CHL. DOM ALK (MC) DIC (MC) Isotopes Trace gases Micro Ray MasSha D.Sholl Devol

SEQ.	DEPTH DESIRED	ROSETTE notes	SALT	NUTS	O2-Morphy	O2 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	Isotopes	Trace gases	Micro Zoops	Ray Prod	MasSha N2/Ar	D.Sholl Radon	Devol 3-02
1	139		*220	42	*173	1.6											
2	125			43							X	X					
3	100			44							X	X					
4	75			45							X	X					
5	60			46							X	X					
6	50			54													
7	40			55													
8	30			56													
9	20			57													
10	10			58							X	X					
11	8			59	*0.39	*0.8											
12	0			60													
13																	
14																	
15																	
16																	
17																	
18																	

Notes on Surface Ice Conditions or proximity to ice edge

PAR on Bridge (μEinstein's m-2s-1) = 0.0
 MAX DEPTH = 139 m

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DS08 I.D. 1HE07 STATION DESIGNATION 93

CONSC CAST #	DEG	MIN	LONGITUDE	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)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
16054	54	22	N	177	36	23	A	P	07	02	48	-3.1	.	977	*	*	32	21	*	*	134	MN17

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 AT SURFACE
 PAR S/N 1 PAR S/N
 FLUOR S/N
 PAR on Bridge (Einstein's m²s⁻¹) = 886
 REMARKS
 MAX. DEPTH = 134 m

SEQ	DEPTH DESIRED	ROSETTE notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	Melissa ALK (MC)	DIC (MC)	Isotopes 813N 8332S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D.Sholl Radon	Devol 3-02
1	134			61	*032	*1.0			✓	✓	✓	✓	✓	✓	✓	✓	✓
2	125			62	*211	*1.1			✓	✓	✓	✓	✓	✓	✓	✓	✓
3	100			63					✓	✓	✓	✓	✓	✓	✓	✓	✓
4	80			64					✓	✓	✓	✓	✓	✓	✓	✓	✓
5	60			65					✓	✓	✓	✓	✓	✓	✓	✓	✓
6	50			66					✓	✓	✓	✓	✓	✓	✓	✓	✓
7	40			67					✓	✓	✓	✓	✓	✓	✓	✓	✓
8	30			68					✓	✓	✓	✓	✓	✓	✓	✓	✓
9	20			69					✓	✓	✓	✓	✓	✓	✓	✓	✓
10	10			70					✓	✓	✓	✓	✓	✓	✓	✓	✓
11	8			71	*147	*-0.7			✓	✓	✓	✓	✓	✓	✓	✓	✓
12	D			72	*221				✓	✓	✓	✓	✓	✓	✓	✓	✓
13																	
14																	
15																	
16																	
17																	
18																	

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 STATION DESIGNATION
 94

CONSC CAST # 1015952.84 N
 DEG MIN
 LATITUDE
 DEG MIN
 LONGITUDE
 DATE JD = 23 APR 07
 DAY MO YR
 TIME (GMT) 0654-3.7
 HR MIN
 DRY BULB (°C)
 WET BULB (°C)
 PRESSURE (mb) 916
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 32
 WIND SPD. (kts) 20
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 135
 STA. NAME/ID 1116

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) = 46.5
 REMARKS
 MAX. DEPTH = m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				CHL.	DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devol
			SALT	NUTS	O2-Mordy	O2 Temp											
1	130			23	*144	+0.8	✓										
2	130		222				✓										
3	100			74	*222	1.0	✓										
4	100						✓										
5	75			75			✓										
6	60			76			✓										
7	60						✓										
8	50			77			✓										
9	40			78			✓										
10	40						✓										
11	30			79			✓										
12	20			80			✓										
13	20						✓										
14	15			117													
15	12			118			✓										
16	8			119		*060	-0.8										
17	4			120		*136	-0.8										
18	0			121				✓									
19																	
20																	
21																	
22																	
23																	
24																	

Notes on Surface Ice Conditions or proximity to ice edge

S7-3
 S7-4
 S7-5
 S7-6
 S7-7

S7-1
 S7-2

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSDB I.D. 1HE07 STATION DESIGNATION 94

CONSC CAST # 1025952.90N DEG MIN LATTITUDE 177 01.32W DEG MIN LONGITUDE DATE 23 APR 07 DAY MO YR TIME (GMT) 0840-13.8-4.2 DRY BULB WET BULB PRESSURE 0.6 SEA STATE VISIBILITY 2.3 WIND DIRN. 27 WIND SPD. 27 CLOUD (amt) 139 WEATHER TYPE 137 BOTTOM DEPTH (m) 137 STA. NAME/ID M/116

SBE 9+ TIMES DATA ON START DOWN AT DEPTH AT SURFACE JO/TIME PAR on Bridge (uEinstein's m-2s-1) = REMARKS RADON/303
 PRESS SN _____ START DOWN AT DEPTH AT SURFACE
 PRI TEMP SN _____ AT SURFACE
 SEC TEMP SN _____ AT SURFACE
 PRI COND SN _____ AT SURFACE
 SEC COND SN _____ AT SURFACE
 MAX. DEPTH = m

SEQ.	FIRED	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS				DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D.Shill	Devol
				SALT	NUTS	O2-Mordy	O2 Temp										
1		130	✓													X	
2		130	✓													X	
3		100	✓													X	
4		100	✓													X	
5		80	✓													X	
6		80	✓													X	
7		50	✓													X	
8		50	✓													X	
9		30	✓													X	
10		30	✓													X	
11		25	✓													X	
12		20	✓													X	
13		15	✓													X	
14		15	✓													X	
15		10	✓													X	
16		16	✓													X	
17		5	✓													X	
18		5	✓													X	
19		0	✓													X	
20		0	✓													X	
21																	
22																	
23																	
24																	

Notes on Surface Ice Conditions or proximity to ice edge
 broken large ice pansakes

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 STATION DESIGNATION 95

CONSC CAST # 53.96 LATITUDE 53.96 LONGITUDE 24.05 DATE JD= 1049 TIME (GMT) 1059-4.4-4.995 DRY BULB (°C) 4-4.995 WET BULB (°C) 4-4.995 PRESSURE (mb) * * SEA STATE * * VISIBILITY * * WIND DIRN. (deg) 1620 WIND SPD. (kts) 143 CLOUD (amt) * * WEATHER * * BOTTOM DEPTH (m) 143 STA. NAME/ID MND15

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

PRI TEMP SN _____ AT SURFACE

SEC TEMP SN _____

PRI COND SN _____

SEC COND SN _____

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

MAX. DEPTH = m

SEQ.	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS			DOM	ALK (MC)	DIC (MC)	Isotopes	Trace	Micro	Ray	Masht	D.Sholl	Devol
			SALT	NUTS	O2-Mordy										
1	~140	notes		122	149						X				
2	125		223	123				✓							
3	160			124				X							
4	75			125				X							
5	50			126				X							
6	46			127				X							
7	30			128				X							
8	25			129				X							
9	10			130				X							
10	8				216			X							
11	0							X							
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Notes on Surface Ice Conditions or proximity to ice edge

see

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DS08 I.D. 11E07
 STATION DESIGNATION 9C

CONSC CAST # 53.80
 LATITUDE 48.39
 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

1045953.91 N
 17548.57 W
 23 APR 07
 1332-3.8-4.794
 00719
 131
 133 MN 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
 PAR S/N
 FLUOR S/N
 MAX. DEPTH = 783 m

REMARKS
 PAR on Bridge (μEinstiens m-2s-1) =
 Strong halocline at ~ 35
 Hi F2 above

FIRE	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS				DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D Soil	Devol
			SALT	NUTS	02-Mordy	02 Temp										
B01	123		1224	132	1050											
2	100			133												
3	75			134												
4	56			135												
5	40			136												
6	30			137												
7	20			138												
8	10			139												
9	0			140												
10																
11																
12																
13																
14																
15																
16																
17																
18																

Notes on Surface Ice Conditions or proximity to ice edge
 Heavy ice - created a hole

VESSEL USCG Healy | CRUISE ID H10701 | PROJECT & LEG BEST07 | DSOB I.D. IHE07 | STATION DESIGNATION 9-7

CONSC CAST # 53.87 | LATITUDE 53.87 | DEGREE MIN 53.73 N | DEGREE MIN 12.45 | DATE JD= 1623 | TIME (GMT) 1636-3.0-3.893 | 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+ | DEGREE MIN 10559 53.73 N | DEGREE MIN 17512.14 W | DATE JD= 23 APR 07 | TIME (GMT) 1636-3.0-3.893 | WIND DIRN (deg) 14 | WIND SPD. (kts) 17 | BOTTOM DEPTH (m) 124 | STA. NAME/ID M113

PRESS SN | DATA ON | TIMES | JD/TIME | REMARKS | PAR on Bridge (μEinsteins m-2s-1) = | MAX. DEPTH = m

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

FREQ.	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. Snail Radon	Devol 3-02
			SALT	NUTS	02-Mordy										
1	115		213	✓ 141	✓ 658										
2	100			✓ 142											
3	60			✓ 143											
4	50			✓ 144											
5	40			✓ 145											
6	30			✓ 146											
7	20			✓ 147											
8	10			✓ 148											
9	8			✓ 149											
10	6			✓ 150											
11															
12															
13															
14															
15															
16															
17															
18															

Notes on Surface Ice Conditions or proximity to ice edge broken pack - 95%

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

CONSC CAST # 1065953.94 N DEG MIN LONGITUDE DEG MIN DATE JD= 23 APR 07 TIME (GMT) 1850-2.19 DRY BULB (°C) WET BULB (°C) PRESSURE (mb) 92 SEA STATE * * VISIBILITY * * WIND DIRN. (deg) 00517 WIND SPD. (Kts) 11.5 CLOUD (amt) TYPE WEATHER BOTTOM DEPTH (m) 115 STA. NAME/ID

SBE 9+ TIMES DATA ON START DOWN AT DEPTH AT SURFACE J0/TIME REMARKS PAR on Bridge (Einstein's m-2s-1) = MAX DEPTH = m

SEQ.	DEPTH DESIRED	ROSEPT notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	Isotopes	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D.Sholl Radon	Devol 3-02
1	108	X W 5803	214		X 118	14		✓									
2	108			✓ 49				✓									
3	75			✓ 50				✓									
4	60			✓ 51				✓									
5	40			✓ 52				✓									
6	40			✓ 53				✓									
7	40																
8	30																
9	30																
10	20			✓ 89			✓	✓									
11	20							✓									
12	16			✓ 83													
13	16																
14	12			✓ 84													
15	12																
16	18			✓ 85			✓										
17	8																
18	8			✓ 86													
19	4																
20	4			✓ 87				✓									
21	0																
22	0																
23	0			✓ 88			✓										
24	0			✓ 89			✓										

Notes on Surface Ice Conditions or proximity to ice edge 0.8m 145?

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 OSDB I.D. 14E07
 STATION DESIGNATION 99

CONSC CAST # 1075954
 LATITUDE 54.12 N
 DEGREE MIN
 DEGREE MIN
 DATE JD= 23 APR 07
 DAY MO YR
 TIME (GMT) 2202-1.9
 DRY BULB (°C)
 WET BULB (°C)
 PRESSURE (mb) 911
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 017
 WIND SPD. (kts) 16
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 104
 STA. NAME/ID M/V 11

SBE 9+ TIMES 17359.56 W 23 APR 07
 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

PAR on Bridge (gleinstens m-2s-1) = 1060
 MAX. DEPTH = 98 m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	ALK (MC)	DIC (MC)	Isotopes δ13N δ32S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D. Soil Radon	Devol 3-O2
			SALT	NUTS	O2-Mordy										
1	98		89	159/119	0.4										
2	75		90												
3	60		91												
4	50		92												
5	40		93												
6	30		94												
7	20		95												
8	10		96												
9	8		97												
10	0		*215	98											
11															
12															
13															
14															
15															
16															
17															
18															

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL: USCG Healy
 CRUISE ID: H10701
 PROJECT & LEG: BEST07
 OSOB I.D.: 1HE07
 STATION DESIGNATION: 100

CONSC CAST # _____
 LATITUDE: _____
 LONGITUDE: _____
 DATE JD= _____
 TIME (GMT): _____
 DRY BULB: _____
 WET BULB: _____
 PRESSURE: _____
 SEA STATE: _____
 VISIBILITY: _____
 WIND DIRN: _____
 WIND SPD: _____
 CLOUD (amt): _____
 WEATHER: _____
 BOTTOM DEPTH: 84 (m)
 STA. NAME/ID: M110

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 ($\mu\text{Einsteins m}^{-2}\text{s}^{-1}$) = 1420
 MAX. DEPTH = 80 m

FIRID	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS			DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devol
			SALT	NUTS	O2-Mordy										
1	80		216	99	200 088										
2	70			100											
3	60			101											
4	50			102											
5	40			103											
6	30			104											
7	20			105											
8	10			106											
9	8			107											
10	0			108											
11															
12															
13															
14															
15															
16															
17															
18															

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DS08 I.D. 1HE07 STATION DESIGNATION 101

CONSC CAST # 1095954.110N DEG MIN LONGITUDE 17248.61W DATE JD= 24 APR 07 0408-11.00 TIME (GMT) DRY BULB (°C) WET BULB (°C) PRESSURE (mb) * * * WIND DIRN. (deg) WIND SPD. (kts) * * * CLOUD (amt) TYPE WEATHER BOTTOM DEPTH (m) STA. NAME/ID 24 MW09

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 (Einstein's m-2s-1) = 120

FLUOR S/N MAX. DEPTH = 69 m

FREQ	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			CHL.	DOM	Melissa ALK (MC)	Tish DIC (MC)	Isotopes $\delta^{15}N$ $\delta^{32}S$	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D. Sholl Radon	Devol 3-02
			SALT	NUTS	O2-Mordy											
1	69		1	2	217	1.8										
2	60		2	3												
3	50		3	4												
4	40		4	5												
5	30		5	6												
6	20		6	7												
7	10		7	8												
8	8		8	9												
9	0		9		217											
10																
11																
12																
13																
14																
15																
16																
17																
18																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSDB I.D. 11E07 STATION DESIGNATION 102

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
1105954		09	17214.61			24	A	P	07	06	31	-1.0			90			019	9			73	MJ08

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 _____
 PAR on Bridge (Einstein's m-2s-1) = 54.6
 REMARKS NO filters
 MAX. DEPTH = 68 m

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS	CHL.	DOM	Melissa ALK (MC)	Tish DIC (MC)	Isotopes 813N 832S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D Shoil Radon	Devol 3-02
1	68		*218 10 15/152* -1.8*		✓									
2	60													
3	50			✓										
4	40			✓	✓									
5	30			✓										
6	20			✓	✓									
7	10			✓										
8	8													
9	0				✓									
10	0			✓										
11														
12														
13														
14														
15														
16														
17														
18														

Notes on Surface Ice Conditions or proximity to ice edge S/is scattered pack

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSDB I.D. 1HE07
 STATION DESIGNATION 104

CONSC CAST # 54.22
 LATITUDE 54.22
 LONGITUDE 06.04
 DATE JD= 1415
 TIME (GMT) 1415
 DRY BULB (°C) -3.8
 WET BULB (°C) -4.3
 PRESSURE (mb) 990
 SEA STATE * * *
 VISIBILITY * * *
 WIND DIRN. (deg) 40
 WIND SPD. (kts) 7
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 72
 STA. NAME/ID MNP04

SBE 9+ DEG MIN 11 25 19 N
 DEG MIN 17 10 01 W
 DATE DAY MO YR 24 APR 07
 HR MIN 14 19
 TIME (GMT) 1415
 DRY BULB (°C) -3.8
 WET BULB (°C) -4.3
 PRESSURE (mb) 990
 SEA STATE * * *
 VISIBILITY * * *
 WIND DIRN. (deg) 40
 WIND SPD. (kts) 7
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 72
 STA. NAME/ID MNP04

PRESS SN _____ DATA ON _____ JD/TIME _____
 START DOWN _____
 AT DEPTH _____

SEC TEMP SN _____ AT SURFACE _____
 AT DEPTH _____

SEC COND SN _____ PAR S/N _____ FLUOR S/N _____

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	ALK (MC)	DIC (MC)	Isotopes δ15N δ32S	Trace gases	Micro Zoopl	Ray Prod	Masha N2/Ar	D. Soil Radon	Devol 3-02
			SALT	NUTS	O2-Mordy										
1	57	✓	208	26	✓	117	-1.8	✓							
2	50	✓		22 f	✓			✓							
3	46	✓		28 f	✓			✓							
4	36	✓		29 f	✓			✓							
5	20	✓		30 f	✓			✓							
6	10	✓		31 f	✓			✓							
7	0	✓		32 f	✓			✓							
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															

Notes on Surface Ice Conditions or proximity to ice edge

2

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BESTO7
 DSD8 I.D. 1HE07
 STATION DESIGNATION 105

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 DIRNL	WIND SPD	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
1135456	10	N	17020.99	W	24	A	P	R	07	21	38	-1.8	.	.	.	911	*	*	034	6	*	*	*	62	M105
SBE 9+ _____ PRESS SN _____ PRI TEMP SN _____ SEC TEMP SN _____ PRI COND SN _____ SEC COND SN _____ PAR S/N _____ PAR on Bridge (μEinsteins m-2s-1) = 2430 REMARKS _____ MAX DEPTH = 57 m																									

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	Melissa	Tish	Isotopes	Trace gases	Micro Zoops	Ray Prod	Masha NZ/Ar	D. Soil Radon	Devol 3-02											
			SALT	NUTS	O2-Mordy	O2 Temp											CHL.										
1	57			33	193																						
2	50			209	34																						
3	40				35																						
4	30				36																						
5	20				37																						
6	10				38																						
7	8				39																						
8	D				40																						
9																											
10																											
11																											
12																											
13																											
14																											
15																											
16																											
17																											
18																											

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 106

CONSC CAST # 1145954.0 DEG MIN N 16948.8 DEG MIN W 25 APR 07 DATE JD= 03 29 TIME (GMT) 03 29 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 52 MND4

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

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

PAR on Bridge (μEinsteins m-2s-1) = 1702

MAX. DEPTH = 47 m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				CHL.	DOM	Ray		Tish		Isotopes		Comment or Others
			SALT	NUTS	Oxygen	O2 Temp			Prod	Melissa	NT 5	MO3			
1	47			41	*243	*-1.7	✓				✓	15	NO3	1500N	
2	40			42			✓								
3	30			43			✓								
4	20			44			✓								
5	20						✓								
6	10			45			✓								
7	8			21D 46	*175	*1.7					✓				
8	0			47			✓								
9	0						✓								
10															
11															
12															
13															
14															
15															
16															
17															
18															

Notes on Surface Ice Conditions or proximity to ice edge

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* Sea-Bird SBE 9 Data File:
* FileName = C:\CTD\114.hex
* Software Version Seasave V 7.12
* Temperature SN = 2841
* Conductivity SN = 2545
* Number of Bytes Per Scan = 40
* Number of Voltage Words = 5
* Number of Scans Averaged by the Deck Unit = 1
* System Upload Time = Apr 25 2007 03:29:26
* NMEA Latitude = 59 54.02 N
* NMEA Longitude = 169 48.79 W
* NMEA UTC (Time) = Apr 25 2007 03:29:25
* Store Lat/Lon Data = Append to Every Scan
** Ship: USCG Healy
** Cruise: H10701
** Station: 10601
** Interval = seconds: 0.0416667
# start_time = Apr 25 2007 03:29:26
# sensor 0 = Frequency 0 temperature, primary, 2841, 24-Jan-07
# sensor 1 = Frequency 1 conductivity, primary, 2545, 19-Jan-07, cpcor = -9.5700e-08
# sensor 2 = Frequency 2 pressure, 638, 05-Dec-06
# sensor 3 = Frequency 3 temperature, secondary, 2824, 25-Jan-07
# sensor 4 = Frequency 4 conductivity, secondary, 2619, 19-Jan-07, cpcor = -9.5700e-08
# sensor 5 = Extrl Volt 0 Oxygen, SBE, primary, 458, 10-Feb-07
# sensor 6 = Extrl Volt 2 altimeter
# sensor 7 = Extrl Volt 4 fluorometer, Chelesa UV Aquatracka, 088234, Mar 07
# sensor 8 = Extrl Volt 6 transmissometer, primary, CST-390DR, 27-Feb-07
# sensor 9 = Extrl Volt 7 irradiance (PAR), primary, QSP2300-70115, 09-Jan-07
# sensor 10 = Extrl Volt 9 surface irradiance (SPAR), degrees = 0.0
# datcnv_date = Apr 25 2007 03:38:00, 5.37m
# datcnv_in = c:\ctd\114.hex c:\ctd\114.CON
# datcnv_botlle_scan_range_source = scans marked with bottle confirm bit, 0, 2
# botllesum_date = Apr 25 2007 03:38:02, 5.37m
# botllesum_in = c:\ctd\114.ros c:\ctd\114.BL
Bottle      Date      Potemp090C  PRDM      T090C      CUMS/cm      Sal100      Sigma-t00Sbeox0km/Kg  Potemp090C      SVCM      FICUVA
Position    Time
1   Apr 25 2007  -1.6655    47.440    -1.6648    24.875823    31.1719    25.0665    350.388    -1.6655    1436.91    13.4456 (avg)
    03:31:21    0.030    0.0004    0.000237    0.0003    0.0002    0.086    0.0004    1436.91    0.7802 (sdev)
2   Apr 25 2007  -1.6656    40.259    -1.6650    24.872402    31.1717    25.0663    350.287    -1.6656    1436.79    13.2882 (avg)
    03:32:08    0.023    0.0003    0.000180    0.0003    0.0002    0.079    0.0003    1436.79    1.2064 (sdev)
3   Apr 25 2007  -1.6664    30.543    -1.6659    24.867429    31.1716    25.0663    350.453    -1.6664    1436.63    12.7351 (avg)
    03:32:58    0.017    0.0002    0.000140    0.0002    0.0002    0.106    0.0002    1436.63    0.2101 (sdev)
4   Apr 25 2007  -1.6530    20.218    -1.6528    24.870927    31.1686    25.0637    350.602    -1.6530    1436.52    12.4949 (avg)
    03:33:53    0.022    0.0019    0.001084    0.0007    0.0006    0.111    0.0006    1436.52    0.6809 (sdev)
5   Apr 25 2007  -1.6355    20.276    -1.6352    24.881577    31.1648    25.0602    351.182    -1.6355    1436.60    14.8346 (avg)
    03:34:02    0.024    0.0022    0.001073    0.0010    0.0009    0.092    0.0022    1436.60    0.9907 (sdev)
6   Apr 25 2007  -1.6240    10.252    -1.6238    24.883671    31.1617    25.0575    351.850    -1.6240    1436.49    15.1026 (avg)
    03:34:44    0.022    0.0004    0.000287    0.0003    0.0003    0.080    0.0004    1436.49    1.5696 (sdev)
7   Apr 25 2007  -1.6062    7.816    -1.6061    24.895268    31.1604    25.0561    351.874    -1.6062    1436.54    17.2904 (avg)
    03:35:30    0.027    0.0011    0.000781    0.0007    0.0006    0.075    0.0011    1436.54    1.4344 (sdev)
8   Apr 25 2007  -1.5710    2.093    -1.5710    24.919617    31.1604    25.0555    351.829    -1.5710    1436.61    10.2613 (avg)
    03:36:03    0.020    0.0031    0.001667    0.0015    0.0013    0.088    0.0031    1436.61    0.8298 (sdev)
9   Apr 25 2007  -1.5614    2.068    -1.5613    24.927936    31.1618    25.0564    351.868    -1.5614    1436.66    10.1434 (avg)
    03:36:18    0.024    0.0042    0.002504    0.0033    0.0027    0.081    0.0042    1436.66    0.6320 (sdev)

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VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSDOB I.D. 1HE07 STATION DESIGNATION 107

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

11155953.62N 16911.19W 25 APR 07 0551 -2.7 911 02417 45 MW03

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

PAR on Bridge (Einstein's m-2s-1) = 1902

REMARKS Filters

MAX. DEPTH = 41 m

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	Melissa ALK (MC)	Tish DIC (MC)	Isotopes 015N 032Z	Trace gases	Micro Zoops	Ray Prod	Mashta N2/Ar	D.Sholl Radon	Devol 3-02
			SALT	NUTS	O2-Murdy	O2 Temp										
1	41		*211	48	*176	217										
2	30			49												
3	20			50												
4	10			51												
5	8			52	*174	217										
6	0			53												
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
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21																
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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 108

CONSC CAST # 1165954 DEG 110 N LATITUDE 16836.15 W LONGITUDE DATE JD= 25 APR 07 TIME (GMT) 0750-1.5 DRY BULB (°C) 91 WET BULB (°C) . PRESSURE (mb) * * SEA STATE * * VISIBILITY (deg) 03411 WIND DIRN (kts) * * WIND SPD. (kts) * * CLOUD (amt) * * WEATHER * * BOTTOM DEPTH (m) 41 STA. NAME/ID M02

SBF 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 _____ AT SURFACE _____
 PAR S/N _____ FLUOR S/N _____

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	δ15N	δ32S	Trace gases	Micro Zoops	Ray	Masha N2/Ar	D.Sholl Radon	Devol 3-02
			SALT	NUTS	O2-Murdy	O2 Temp											
1	35		237	54 F	234	5.17											
2	30			55 F													
3	20			56 F													
4	10			57 F													
5	8																
6	0			58 F													
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
 DSDB I.D. 11E07
 STATION DESIGNATION 109

CONSC CAST # 1175954.84 N
 LATITUDE 16759.41 W
 DATE JD= 25 APR 07
 TIME (GMT) 1056-11.5-2.0911
 DRY BULB (°C) 9.9%
 WET BULB (°C)
 PRESSURE (mb) *
 SEA STATE *
 VISIBILITY *
 WIND DIRN. (deg) 148
 WIND SPD. (kts) 8
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 30
 STA. NAME/ID M501

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 (μ Einsteins m-2s-1) =
 PAR S/N
 FLUOR S/N

MAX. DEPTH = m

FIRED	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS			Oxygen	O2 Temp	CHL.	DOM	Ray Prod	Melissa	Tish	Isotopes			Comment or Others		
			SALT	NUTS	NUITS								N15	P32	N03			
1	25	✓	243	594			✓											
2	20	✓		604			✓											
3	16	✓		614			✓											
4	16	✓																
5	8	✓																
6	0	✓																
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		

Notes on Surface Ice Conditions or proximity to ice edge

Fluor data > 2 surface casts
 no ice

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSOB I.D. 1HE07
 STATION DESIGNATION 114

CONSC CAST # 27147
 LATITUDE 48.21
 LONGITUDE 1353
 DATE JD= 1410-0.4-0.896
 TIME (GMT) 22 09
 DRY BULB (°C)
 WET BULB (°C)
 PRESSURE (mb)
 SEA STATE
 VISIBILITY
 WIND DIRN. (deg)
 WIND SPD. (kts)
 CLOUD (amt)
 WEATHER
 BOTTOM DEPTH (m) 38
 STA. NAME/ID B8 N901

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

FRIED DEPTH
 ROSETTE
 SAMPLE BOTTLE NUMBERS
 RAY
 MELISSA
 TISH
 ISOTOPES
 COMMENT OR OTHERS

SEQ.	DESIRED	NOTES	SALT	NUTS	Oxygen	O2 Temp	CHL.	DOM	Prod	ALK (MC)	DIC (MC)	N15	P32	NO3
1	34			634	197	-1.6								
2	30			648										
3	20			658										
4	10			668										
5	8				1613	-1.2								
6	6			678										
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														

Hy Ocean pump stuck?

ice free
 Temp bl.p on way down to 12m

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 111

CONSC CAST # 43.16 LATITUDE 53.34 N LONGITUDE 1725 DATE JD= 25 APR 07 TIME (GMT) 1734 DRY BULB (°C) 6.6 WET BULB (°C) 9.9 PRESSURE (mb) 911 SEA STATE * * VISIBILITY * * WIND DIRN. (deg) 43 WIND SPD. (kts) 21.5 CLOUD (amt) * * TYPE * * WEATHER * * BOTTOM DEPTH (m) 42 STA. NAME/ID N1042

SBE 9+ TIMES 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				DOM	ALK (MC)	DIC (MC)	δ15N	δ32S	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D. Snoll Radon	Devol 3-02
			SALT	NUTS	O2-Mordy	O2 Temp											
1	38			684	037	-1.5	✓										
2	38																
3	23			696			✓										
4	23																
5	20						✓										
6	25																
7	15						✓										
8	15																
9	12						✓										
10	12																
11	10						✓										
12	10																
13	9						✓										
14	9																
15	8							172	-1.5								
16	6						✓										
17	6																
18	3																
19	3																
20	0						✓										
21	0																
22																	
23																	
24																	

Notes on Surface Ice Conditions or proximity to ice edge

REMARKS Prod Cast

320

3M

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSDB I.D. 1HE07 STATION DESIGNATION 112

CONSC CAST # 1205849.81 N 16809.51 W 25 APR 07 2014-0.0 92 03619 45 NPB3

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

SBE 9+ TIMES DATA ON START DOWN AT DEPTH AT SURFACE PAR S/N 862

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

PAR on Bridge (uEinsteins m-2s-1) = 862

REMARKS Filter

MAX. DEPTH = 40 m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Maasha	D. Shell	Devol
			SALT	NUTS	O2-Mordy	O2 Temp										
1	40			78	211	*-1.5										
2	20			79												
3	20			80												
4	10			81												
5	8			82	*032	*-1.5										
6	0			83												
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

ND ice

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSDB I.D. 1HE07
 STATION DESIGNATION 113

CONSC CAST # 121
 DEG 58
 MIN 35
 LATITUDE 72 N
 DEG 168
 MIN 26
 LONGITUDE 11 W
 DATE JD= 25
 DAY APR
 MO 07
 YR 23
 HR 03
 MIN 03
 TIME (GMT) 03:03
 DRY BULB (°C) 0.6
 WET BULB (°C) .
 PRESSURE (mb) 92
 SEA STATE *
 VISIBILITY *
 WIND DIRN (deg) 25
 WIND SPD (kts) 14
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 57
 STA. NAME/ID NP04

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 (Einstein's m-2s-1) = 2250
 REMARKS
 MAX DEPTH = 51 m

SEQ.	DEPTH	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D.Sholl	Devol
			SALT	NUTS	O2-Mordy	O2 Temp										
1	51		261	84	146	-1.6										
2	40			85												
3	30			86												
4	20			87												
5	10			88												
6	8			89	147	-1.4										
7	0			90												
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
 DSD8 I.D. 114
 STATION DESIGNATION 114

CONSC CAST # 12258211.56 N
 DEG MIN
 LONGITUDE 16842.02 W
 DATE JD= 26 APR 07
 TIME (GMT) 0237-0.5
 DRY BULB (°C) 0.5
 WET BULB (°C) .
 PRESSURE (mb) 93
 SEA STATE * *
 VISIBILITY * *
 WIND DIRN. (deg) 002
 WIND SPD. (kts) 17
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 66
 STA. NAME/ID WRP/BS

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
 PAR on Bridge (Einstein's m-2s-1) =
 MAX. DEPTH = 62 m

FIREDE DEPTH
 ROSETTE notes
 SAMPLE BOTTLE NUMBERS
 SALT NUTS O2-Mordy O2 Temp CHL. DOM
 Melissa Tish isotopes Trace Micro Ray
 Massha D. Sholl Devol
 N2/Ar Radon 3-O2

SEQ.	DEPTH	ROSETTE notes	SALT	NUTS	O2-Mordy	O2 Temp	CHL.	DOM	ALK (MC)	DIC (MC)	isotopes	Trace gases	Micro Zoops	Ray Prod	Massha N2/Ar	D. Sholl Radon	Devol 3-O2
1	62			91	*115	*-1.7	✓	✓									
2	50			92			✓										
3	40			93			✓	✓									
4	30			94			✓	✓									
5	20			95			✓	✓									
6	20																
7	10			96			✓						X				
8	8			97	*159	*-1.0							X				
9	0			98			✓	✓					X				
10	0				*267												
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 LIS

CONSC CAST # 1235808.01N | LATITUDE 16858.04W | DATE JD= 26 APR 07 | TIME (GMT) 0428-0.7 | DRY BULB (°C) | WET BULB (°C) | PRESSURE (mb) 914 | SEA STATE * | VISIBILITY * | WIND DIRN. (deg) 002 | WIND SPD. (kts) 16 | CLOUD (amt) * | WEATHER * | BOTTOM DEPTH (m) 70 | STA. NAME/ID NTP06

SBE 9+ | TIMES | DATA ON | START DOWN | AT DEPTH | AT SURFACE | JD/TIME | PAR on Bridge (uEinstein m-2s-1) 316 | REMARKS | MAX. DEPTH = 66 m

SEC. DEPT	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	66		*238	99	*092	*15										
2	50			100												
3	40			101												
4	30			102												
5	20			103												
6	10			104												
7	8			105		*093	*15									
8	0			106												
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 116

CONSC CAST # 1245
 DEG 5
 MIN 25
 LATITUDE 35 N
 DEG 169
 MIN 14
 LONGITUDE 75 W
 DATE JD = 266
 DAY 26
 MO 6
 YEAR 07
 TIME (GMT) 0734
 HR 07
 MIN 34
 DRY BULB (°C) -0.8
 WET BULB (°C) .95
 PRESSURE (mb) 95
 SEA STATE *
 VISIBILITY *
 WIND DIR (deg) 348
 WIND SPD (kts) 19
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH (m) 66
 STA. NAME/ID NPD07

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) _____
 REMARKS _____
 MAX DEPTH = 63 m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				CHL.	DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D. Sholl	Devol
			SALT	NUTS	O2-Mordy	O2 Temp											
1	63	X			*195	-1.5	✓										
2	50			107													
3	40			108													
4	40		✓	109		*088	-1.0	✓									
5	40																
6	30																
7	25																
8	25		✓	111				✓									
9	20					*097	-1.6										
10	20		✓	112				✓									
11	15																
12	15		✓	113													
13	10																
14	10		✓	114				✓									
15	8					*220	-1.1										
16	5		✓	116													
17	5																
18	0		✓	117				✓									
19	0																
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 117

CONSC CAST # 4690 LATITUDE 30.144 LONGITUDE DATE JD= 4925 TIME (GMT) DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY WIND DIRN. WIND SPD. CLOUD (amt) TYPE WEATHER BOTTOM DEPTH STA. NAME/ID

1255740.82 N 16930.42 W 26 APR 07 0933 -1.8 -2.3 96 346 19 69 NR08

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

FIRED DEPTH ROSETTE notes SALT NUTS Q2 Temp CHL. DOM ALK (MC) DIC (MC) 01SN 032Z gases Micro Ray Masht D.Sholl Devel

1	64	✓	1244	118	1237	-1.5														
2	50	✓		119	1171	3.2														
3	49	✓		120																
4	30	✓		121																
5	20	✓		122																
6	10	✓		123																
7	8	0		124	1151	-0.0														
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

✓ prob. w/ DISPENSER 2 - ON 1 W/ STICK AND 2 - MONITOR NOT QUARANTINE DISPENSER DO NOT TOUCH DISPENSER

Notes on Surface Ice Conditions or proximity to ice edge ice free - snowing

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 OSDB I.D. THE07
 STATION DESIGNATION 118

CONSC CAST # 26,89
 LATITUDE 46.38
 LONGITUDE
 DATE JD= 130
 TIME (GMT) 1135
 DRY BULB (°C) 2.1
 WET BULB (°C) 2.8
 PRESSURE (mb) 997
 SEA STATE * *
 VISIBILITY * *
 WIND DIRN. (deg) 331
 WIND SPD. (kts) 18
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 67
 STA. NAME/ID 118 NP49

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) = _____

FIRED DEPTH _____
 SEQ. DESIRED _____
 ROSETTE notes _____
 SAMPLE BOTTLE NUMBERS
 SALT NUTS Oxygen O2 Temp CHL. DOM Prod Ray Melissa Tish N15 P32 NO3
 Comment or Others _____

SEQ.	DEPTH	ROSETTE	SALT	NUTS	Oxygen	O2 Temp	CHL.	DOM	Prod	Ray	Missisa	Tish	N15	P32	NO3	Comment or Others
1	63	-		1254												leaker
2	50	✓	250	126	691	-1.5	✓									
3	46	✓		127	252	-1.5	✓									
4	38	✓		128			✓									
5	25	✓		129			✓									
6	16	-		130			✓									
7	8	✓														
8	2	-		131	136	-1.4	✓									one seal sensor bad
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																

Notes on Surface Ice Conditions or proximity to ice edge
 Fluor belts < 1.8
 Do not filter

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSD8 I.D. 11E07
 STATION DESIGNATION 119

CONSC CAST # 58.30
 LATITUDE 58.30
 LONGITUDE 17.10
 DATE JD= 1631
 TIME (GMT) 1642-2.0-31.399
 DRY BULB (°C)
 WET BULB (°C)
 PRESSURE (mb)
 SEA STATE
 VISIBILITY
 WIND DIRN. (deg)
 WIND SPD. (kts)
 CLOUD (amt)
 TYPE
 WEATHER
 BOTTOM DEPTH (m) 71
 STA. NAME/ID NP 11

SBE 9+
 PRESS SN
 PRI TEMP SN
 SEC TEMP SN
 PRI COND SN
 SEC COND SN
 TIMES 17016.84 WZ6A P R 07
 JD/TIME
 DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE
 PAR S/N
 FLUOR S/N
 PAR on Bridge (μEinstein m-2s-1)
 REMARKS
 MAX. DEPTH = m

FREQ	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS				RAY	MELISSA	TISH	ISOTOPES		COMMENT OR OTHERS		
SEQ.	DESIRED	NOTES	SALT	NUTS	Oxygen	O2 Temp	CHL	DOM	Prod	ALK (MC)	DC (MC)	N15	P32	NO3
1	65	✓	256	132 F	1143	-1.0	✓							
2	60	✓		133 F	1144	-1.1	✓							
3	40	✓		131 F			✓							
4	30	✓		135 F			✓							
5	20	✓		136 F			✓							
6	10	✓		134 F			✓							
7	8	✓			1149	-1.2								
8	2	✓		138 F	1210	-1.1	✓							
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														

Notes on Surface Ice Conditions or proximity to ice edge

no visible ice floating near ship
 floor water ~ 2.0

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSD8 I.D. 1HE07
 STATION DESIGNATION 120

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

1285643.73N
 17032.14W
 26 APR 07
 2010-11.5
 01
 34418
 102 MPI2

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) =
 REMARKS just following in station
 MAX. DEPTH = 102 m

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				FLUOR S/N	RAY	MELISSA	TISH	N15	ISOTOPES	NO3	COMMENT OR OTHERS
			SALT	NUTS	Oxygen	O2 Temp								
1	102		139	1089	+1.9		V	V						
2	90													
3	80		140	1039	1.7		V	V						LARGE OFFSET BETWEEN CONDUCTIVITY SENSORS DURING CRT.
4	70													
5	60		1412				V	V						
6	50													
7	40		1425				V	V						
8	30		1435											
9	20		1442				V	V						
10	10		1452											
11	8													
12	0		1465	1213	1.6		V	V						
13														
14														
15														
16														
17														
18														

Notes on Surface Ice Conditions or proximity to ice edge

A1+C2 offset

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSOB I.D. 1HE07
 STATION DESIGNATION 122

CONSC CAST # 1305617.03
 DEG MIN
 LATITUDE 17103.23
 DEG MIN
 LONGITUDE N
 DATE JD= 274
 DAY MO YR
 PAR 07
 HR MIN
 TIME (GMT) 0107-0.9
 DRY BULB (°C) .9
 WET BULB (°C) .
 PRESSURE (mb) * .03
 SEA STATE * *
 VISIBILITY * *
 WIND DIRN (deg) 338
 WIND SPD. (kts) 19
 CLOUD (amt) * * *
 TYPE WEATHER * * *
 BOTTOM DEPTH (m) 136
 STA. NAME/ID NPI14

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 (Heimstein's m-2s-1) = 797
 REMARKS
 MAX DEPTH = 135 m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	ALK (MC)	DIC (MC)	δ15N	δ32S	Trace Gases	Micro Zoops	Ray Prod	Masht	D.Sholl	Devol
			SALT	NUTS	O2-Murdy	O2 Temp											
1	135		268	901	*235	3.6											
2	125																
3	125			902													
4	160				903												
5	160				903												
6	100				904												
7	100				904												
8	75				905												
9	75				905												
10	50				906	193	3.8										
11	50				906	193	3.8										
12	40				907												
13	40				907												
14	30				908												
15	30				908												
16	20				909												
17	20				909												
18	10				910												
19	10				910												
20	8				911	*236	2.6										
21	0				912												
22	0																
23																	
24																	

Notes on Surface Ice Conditions or proximity to ice edge

C1/c2 NOT TRACKING / SK

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSOB I.D. 1HE07
 STATION DESIGNATION 123

CONSC CAST # 02 05
 LATITUDE 02 05 N
 DEGREE MIN
 LONGITUDE 171 20.49 W
 DEGREE MIN
 DATE JD= 27 APR 07
 DAY MO YR
 TIME (GMT) 0625-1.9
 HR MIN
 DRY BULB (°C)
 WET BULB (°C)
 PRESSURE (mb) 07
 SEA STATE * *
 VISIBILITY * *
 WIND DIRN. (deg) 60
 WIND SPD. (kts) 2.5
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 2852
 STA. NAME/ID NP15

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 = 2500m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	Melissa	Tish	Isotopes	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D. Soil Raddon	Devol 3-02
			SALT	NUTS	02-Mordy										
1	2500			V1	V190	V14		X							
2	2500			V2	V219	V18		X							
3	2000			V3	V059	V22		X							
4	1500			V4	V2117	V27		X							
5	1000			V5	V209	V31		X							
6	750			V6	V208	V33		X							
7	500			V7	V192	V37		X							
8	350			V8	V1002	V35		X							
9	250			V9	V197	V27		X							
10	200			V10	V141	V312		X							
11	150	Temp used		V11	V172	V30		X							
12	100			V12	V037	V31		X							
13	75			V13	V032	V32		X							
14	50			V14	V211	V33		X							
15	50			V15	V147	V42		X							
16	33			V16	V17K	V38		X							
17	27			V17	V14	V3		X							
18	20			V18	V19x	V3		X							
19	20			V19	V19x	V3		X							
20	13	(14G)		V20	V19x	V3		X							
21	10			V21	V19x	V3		X							
22	10			V22	V19x	V3		X							
23	0			V23	V19x	V3		X							
24	0			V24	V19x	V3		X							

Notes on Surface Ice Conditions or proximity to ice edge
 10 .19

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSD8 I.D. THE07
 STATION DESIGNATION 124

CONSC CAST # 32,03
 LATITUDE 59.64
 LONGITUDE
 DATE JD= 1452
 TIME (GMT) 1457
 DRY BULB (°C) -3.6
 WET BULB (°C) -5.6
 PRESSURE (mb) 1016
 SEA STATE * * *
 VISIBILITY * * *
 WIND DIRN. (deg) 313
 WIND SPD. (kts) 21
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 98
 STA. NAME/ID X01

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

ROSETTE notes
 SALT
 NUTS
 Oxygen
 O2 Temp
 CHL.
 DOM
 Ray
 Melissa
 Tish
 N15
 P32
 NO3
 Comment or Others

SEQ.	DEPTH DESIRED	ROSETTE notes	SALT	NUTS	Oxygen	O2 Temp	CHL.	DOM	Ray	Melissa	Tish	N15	P32	NO3	Comment or Others
1	921		269	26 f	234	0.9									
2	751			21 f	129	0.9									
3	601			22 f											
4	401			23 f											
5	301			24 f											
6	201			25 f											
7	101			26 f											
8	81			176	0.9										
9	81			275	174										
10															
11															
12															
13															
14															
15															
16															
17															
18															

Notes on Surface Ice Conditions or proximity to ice edge

lake oliva at 45 (down)
 at 50 (up)

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSDB I.D. THE07
 STATION DESIGNATION 125

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)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
133564	1	71	N 16949.94	W 28	8	PAR 07	04	5	8	11	9	04			105	4							80	X02

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 (Alenstreins m-25-1) =
 REMARKS
 MAX. DEPTH = 75 m

FIRE	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS	RAY	MELISSA	TISH	NO3	NO3							
SEQ.	DESIRED	notes	SALT	NUTS	Oxygen	O2 Temp	CHL	DOM	Prod	ALK (MC)	DIC (MC)	N15	P32	NO3	Comment or Others
1	75			28	*222	*0.8									
2	60			29											
3	50			30											
4	40			31											
5	30			32											
6	20			33											
7	10			34											
8	8			35	*060	*0.3									
9	0			36											
10															
11															
12															
13															
14															
15															
16															
17															
18															

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: 126

CONSC CAST #	DEG	MIN	LATITUDE	DEG	MIN	LONGITUDE	DATE	JD =	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
13456	52	02	N	169	57	88	28	A	P	07	0715	-2.5	.	01	*	*	092	10	*	*	*	71	X03

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

DATA ON
 START DOWN
 AT DEPTH
 AT SURFACE

PAR S/N
 FLUOR S/N

PAR on Bridge (μEinsteins m⁻²s⁻¹) = 0

REMARKS

MAX. DEPTH = 69 m

SEQ.	DEPTH DESIRED	ROSETTE notes	SALT	NUTS	Oxygen	O2 Temp	CHL	DOM	Ray Prod	MeiSSa ALK (MC)	Tish DIC (MC)	N15	P32	NO3	Isotopes	Comment or Others
1	69			37	149	0.7										
2	60			38												
3	50			39												
4	40			40												
5	30			41												
6	20			42												
7	10			43												
8	8			44	144											
9	0			45												
10																
11																
12																
13																
14																
15																
16																
17																
18																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSDS I.D. 1HE07
 STATION DESIGNATION 127

CONSC CAST # 5133
 LATITUDE 02.25
 LONGITUDE 174.02
 DATE JD= 0846
 TIME (GMT) 0846
 DRY BULB 79.6
 WET BULB 79.6
 PRESSURE 0
 SEA STATE *
 VISIBILITY *
 WIND DIRN. 102
 WIND SPD. 12
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH 65
 STA. NAME/ID X04

DEG 135
 MIN 57
 DEG 01
 MIN 52
 N
 DEG 174
 MIN 02
 W
 DAY 28
 MO APR
 YR 07
 HR 08
 MIN 46
 (°C) 3.2
 (°C) 6.2
 (mb) 0
 *
 (deg) 102
 (kts) 12
 *
 *
 *
 (m) 65
 X04

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) =
 REMARKS
 MAX. DEPTH = m

ROSETTE
 SALT
 NUTS
 Oxygen
 O2 Temp
 CHL
 DOM
 Prod
 Melissa
 Alk (MC)
 DIC (MC)
 N15
 P32
 NO3
 Comment or Others

SEQ.	DEPTH DESIRED	ROSETTE	SALT	NUTS	Oxygen	O2 Temp	CHL	DOM	Prod	Melissa	Alk (MC)	DIC (MC)	N15	P32	NO3	Comment or Others
1	60		252	465	050	-1.2										
2	50			495	214	-1.2	✓									
3	40			482			✓									
4	30			495			✓									
5	20			508			✓									
6	16			515			✓									
7	8				142	-1.0										
8	0				528		✓									
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																

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 128

CONSC CAST # 1365718
 DEG 57.18
 MIN 60
 N
 LONGITUDE DEG 16954.38
 MIN 28
 W
 DATE JD= 28
 MO APR
 YR 07
 TIME (GMT) HR 11
 MIN 36
 DRY BULB (°C) -3.8
 WET BULB (°C) -7.3
 PRESSURE (mb) 398
 SEA STATE * * *
 VISIBILITY * * *
 WIND DIRN. (deg) 70
 WIND SPD. (kts) 11
 CLOUD (amt) * * *
 WEATHER * * *
 BOTTOM DEPTH (m) 58
 STA. NAME/ID NR 14

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

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	ALK (MC)	Tish DIC (MC)	Isotopes 635N 6322i	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D.Sholl Radon	Devol 3-02
			SALT	NUTS	O2-Mordy										
1	bt			53	089	-1.3									
2	bt				213	-1.2									
3	52			54											
4	46			55											
5	40														
6	30			56											
7	30														
8	25	S1101													
9	25			57											
10	20			58											
11	20														
12	16	S1102		59											
13	13	S1103		60											
14	10	S1104													
15	10			61											
16	8				39	-1.3									
17	7	S1105		68											
18	3	S1106		69											
19	0	S1107		70											
20	0														
21															
22															
23															
24															

n622/e Problems - fix

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DS08 I.D. THE07
 STATION DESIGNATION 129

CONSC CAST # 21.39
 LATITUDE 36.24
 LONGITUDE
 DATE JD= 1403
 TIME (GMT) 1412-3.4-6.9914
 DRY BULB (°C)
 WET BULB (°C)
 PRESSURE (mb)
 SEA STATE
 VISIBILITY
 WIND DIRN. (deg)
 WIND SPD. (kts)
 CLOUD (amt)
 TYPE
 WEATHER
 BOTTOM DEPTH (m) 75
 STA. NAME/ID X07

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) =
 REMARKS
 MAX. DEPTH = m 68 w/b

DEG MIN DEG MIN DEG MIN DAY MO YR HR MIN
 13757 21.39 N 17036.84 W 28 APR 07 1412-3.4-6.9914

SEQ.	DEPTH DESIRED	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	NO3
1	76.1		245	71	092	0.9								
2	50.1			72	093	-0.9								
3	40.1			73										
4	30.1			74										
5	20.1			75										
6	10.1			76										
7	8.1				133									
8	8.1				134	-0.8								
9					77									
10														
11														
12														
13														
14														
15														
16														
17														
18														

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 130

CONSC CAST # 02.76 LATITUDE 37.91 LONGITUDE 126.24 DATE JD = 281 PAR 07 1559-2.5-5.0911

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

1385702.86 N 17038.24 W 28 APR 07 1559-2.5-5.0911 7520 B11 X45

SBE 3+ TIMES DATA ON START DOWN AT DEPTH AT SURFACE J0/TIME PAR on Bridge (μEinsteins m⁻²s⁻¹) = MAX. DEPTH = 78 m

SEC COND SN PAR S/N FLUOR S/N

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				Ray	Melissa	Tish	N15	P32	NO3	Comment or Others
			SALT	NUTS	Oxygen	O2 Temp							
1	77		239	1984	195	0.7							
2	60			294	181	0.7							
3	50			280									
4	40			191									
5	30			282									
6	20			283									
7	10			284									
8	8				097	-1.0							
9	0				285	088							
10													
11													
12													
13													
14													
15													
16													
17													
18													

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL: USCG Healy
 CRUISE ID: HI 0701
 PROJECT & LEG: BEST07
 DSDB I.D.: 1HE07
 STATION DESIGNATION: 131

CONSC CAST #
 DEG: 139
 MIN: 57
 LATITUDE: 46.28 N
 DEG: 171
 MIN: 08
 LONGITUDE: 80.80 W
 DATE JD =
 DAY: 29
 MO: APR
 YR: 07
 TIME (GMT): 0304
 DRY BULB: 2.0
 WET BULB: .
 PRESSURE: 87
 SEA STATE: *
 VISIBILITY: *
 WIND DIRN.: 070
 WIND SPD.: 27
 CLOUD (amt): *
 TYPE: *
 WEATHER: *
 BOTTOM DEPTH: 92
 STA. NAME/ID: XE1-1

SBE 9+
 TIMES
 DATA ON: _____
 START DOWN: _____
 AT DEPTH: _____
 AT SURFACE: _____
 PAR S/N: _____
 FLUOR S/N: _____
 PAR on Bridge (μEinsteins m-2s-1) = 368
 MAX. DEPTH = 87 m

FIREDEP: _____
 DEPTH: _____
 ROSETTE: _____
 notes: _____
 SAMPLE BOTTLE NUMBERS
 SALT: _____
 NUTS: _____
 Oxygen: _____
 O2 Temp: _____
 CHL: _____
 DOM: _____
 Ray: _____
 Melissa: _____
 Tish: _____
 N15: _____
 S332: _____
 NO3: _____
 Comment or Others: _____

SEQ	DEPTH	ROSETTE	SALT	NUTS	Oxygen	O2 Temp	CHL	DOM	Ray	Melissa	Tish	N15	S332	NO3	Comment or Others
1	87			86	212	0.2						X	X	X	
2	75			87								X	X	X	
3	60			88								X	X	X	
4	50			89								X	X	X	
5	40			90								X	X	X	
6	30			91			X					X	X	X	
7	20			92			X					X	X	X	
8	10			93			X					X	X	X	
9	8			94	220	1.0						X	X	X	
10	0			95			X					X	X	X	
11															
12															
13															
14															
15															
16															
17															
18															

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 DSD8 I.D. THE07 STATION DESIGNATION 132

CONSC CAST # 140 DEG 57 MIN 56.07 N LONGITUDE 171 DEG 03 MIN 74.74 W DATE JD= 29 DAY MO YR 29 APR 07 TIME (GMT) 0544 HR MIN DRY BULB (°C) -1.8 WET BULB (°C) . . . PRESSURE (mb) 88 SEA STATE * * VISIBILITY * * WIND DIRN. (deg) 056 WIND SPD. (kts) 24 CLOUD (amt) * * WEATHER * * BOTTOM DEPTH (m) 89 STA. NAME/ID XTI1-2

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

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

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SALT	NUTS	Oxygen	O2 Temp	CHL	DOM	Ray Prod	Melissa ALK (MC)	Tish DIC (MC)	N15	P32	NO3	Comment or Others
1	86		204	96	151	0.2				V	V				
2	60			97						V	V				
3	50			98											
4	40			99						V	V				
5	30			100											
6	20			101						V	V				
7	10			102											
8	8			103	214	-1.2				V	V				
9	0			104						V	V				
10															
11															
12															
13															
14															
15															
16															
17															
18															

Notes on Surface Ice Conditions or Proximity to Ice edge

No ice

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSDB I.D. 1HE07
 STATION DESIGNATION 133

CONSC CAST # 0612
 LATITUDE 52.46
 DEGREE MIN 17 45 7
 DEGREE MIN 46
 DATE JD= 29 APR 07
 TIME (GMT) 1136
 DRY BULB 11.8
 WET BULB 9.4
 PRESSURE 1014
 SEA STATE *
 VISIBILITY *
 WIND DIRN. 34
 WIND SPD. 17
 CLOUD (amt) *
 TYPE *
 WEATHER *
 BOTTOM DEPTH 85
 STA. NAME/ID XI103

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
 REMARKS
 Icecast first at 10:12
 MAX. DEPTH = m

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS			DOM	Melissa	Tish	Isotopes	Trace	Micro	Ray	Masha	D. Shell	Devol
			SALT	NUTS	O2-Mordy										
1	82	✓													
2	80	✓													
3	80	✓													
4	80	✓													
5	90	✓													
6	70	✓													
7	60	✓													
8	60	✓													
9	56	✓													
10	50	✓													
11	40	✓													
12	40	✓													
13	40	✓													
14	30	✓													
15	30	✓													
16	30	✓													
17	20	✓													
18	20	✓													
19	10	✓													
20	10	✓													
21	10	✓													
22	10	✓													
23	0	✓													
24	0	✓													

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy PROJECT & LEG BEST07 DSDR I.D. THE07 STATION DESIGNATION 134

CRUISE ID H10701

CONSC CAST # 16.23
 LATITUDE 51.41
 LONGITUDE 1438
 DATE JD= 1441-1-2-2911
 TIME (GMT) 1441-1-2-2911
 DRY BULB (°C) 2
 WET BULB (°C) 2
 PRESSURE (mb) 30.24
 SEA STATE * * * * *
 VISIBILITY * * * * *
 WIND DIRN. (deg) 30
 WIND SPD. (kts) 24
 CLOUD (amt) * * * * *
 WEATHER * * * * *
 BOTTOM DEPTH (m) 85
 STA. NAME/ID XI104

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 (Elnsteins m-2s-1) = _____
 B20

FIRD	DEPTH DESIRED	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	N15	N03						
1	80		258	11																
2	50			13																
3	40			14																
4	30			15																
5	20			16																
6	10			17																
7	0			18																
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				

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: 135

CONSC CAST #	DEG	MIN	LONGITUDE	DEG	MIN	DATE	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIR/NL (deg)	WIND SPD (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
1435	58	26	17042.91	29	1	2007	APR	07	12	55	1.0	93			025	5							76XHE15

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

SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				DOM	Melissa	Tish	Isotopes	Trace gases	Micro Zoops	Ray Prod	Masha N2/Ar	D.Sholl Radon	Devol 3-02	STATION ID
			SALT	NUTS	O2-Mordy	O2 Temp											
1	73	73															NRBA
2	73	73															NO3
3	60	60															
4	50	50															
5	50	50															
6	45	45															
7	40	40															
8	40	40															
9	35	35															
10	30	30															
11	30	30															
12	20	20															
13	20	20															
14	15	15															
15	15	15															
16	12	12															
17	12	12															
18	10	10															
19	8	8															
20	8	8															
21	4	4															
22	4	4															
23	0	0															
24	0	0															

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 13C

CONSC CAST #
 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

14 45 83 7.13 N
 170 37.24 W
 29 APR 07
 19 17 - 1.4
 95
 359 24
 77 XZ 1 - 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) =
 Strips of polystyrene ice - 5% coverage
 REMARKS
 MAX. DEPTH = m

FIRD	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS				FLUOR S/N	Ray			Isotopes			Comment or Others	
			SALT	NUTS	Oxygen	O2 Temp		CHL	DOM	Prod	ALK (MC)	DIC (MC)	N15		P32
1	73	✓	240	32	171	-1.1	✓								
2	60	✓		33			✓								
3	50	✓		34			✓								
4	40	✓		35			✓								
5	30	✓		36			✓								
6	20	✓		37			✓								
7	10	✓		38			✓								
8	0	✓		39			✓								
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy PROJECT & LEG BEST07 STATION DESIGNATION 137

CRUISE ID H10701 DSDB I.D. 1HE07

CONSC CAST # 145 DEG 58.47.25 N LONGITUDE 170 31.91 W DATE JD= 29 APR 07 TIME (GMT) 2056-0.9 PRESSURE 96 SEA STATE * * WIND DIRN. 033 WIND SPD. 16 CLOUD (amt) * * * * * WEATHER * * * * * BOTTOM DEPTH 75 STA. NAME/ID XLI-7

SBE 9+ TIMES DATA ON JD/TIME PAR on Bridge (μ Einsteins m-2s-1) = 1320

PRI TEMP SN START DOWN AT DEPTH AT SURFACE PAR S/N 102

FIRE	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS	FLUOR S/N	RAY	MELISSA	TISH	ISOTOPES	COMMENT OR OTHERS					
SEQ.	DESIRED	NOTES	SALT	NUTS	Oxygen	O2 Temp	CHL.	DOM	Prod	ALK (MC)	DIC (MC)	N15	P32	N03
1	70		241	40										
2	60			41										
3	50			42			✓							
4	40			43			✓							
5	30			44			✓							
6	20			45			✓							
7	10			46			✓							
8	8			47										
9	0			48			✓							
10														
11														
12														
13														
14														
15														
16														
17														
18														

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy CRUISE ID H10701 PROJECT & LEG BEST07 STATION DESIGNATION 138

CONC CAST # 1465856.97 N 17024.19 W 29 APR 07 DATE JD= 2238-0.1 TIME (GMT) 2238-0.1 DRY BULB (°C) .1 WET BULB (°C) .1 PRESSURE (mb) 98 SEA STATE * * VISIBILITY (deg) 120 WIND DIRN. (kts) 11 WIND SPD. (kts) * * CLOUD (amt) * * WEATHER * * BOTTOM DEPTH (m) 72 XIT 1-8 STA. NAME/ID

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

DATA ON START DOWN AT DEPTH AT SURFACE PAR on Bridge (μEinsteins m-2s-1) = 1610

ROSETTE notes SALT NUTS Oxygen O2 Temp CHL. DOM Prod ALK (MC) DIC (MC) N15 P32 NO3

SEQ.	DEPTH DESIRED	ROSETTE notes	SALT	NUTS	Oxygen	O2 Temp	CHL.	DOM	Prod	ALK (MC)	DIC (MC)	N15	P32	NO3	Comment or Others
1	67			49											
2	50			50											
3	40			51											
4	30			52											
5	20			53											
6	10			54											
7	8			55	152	1.7									
8	0			56											
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															

Notes on Surface Ice Conditions or proximity to ice edge
 7/10s jumbled raked dirty ice.

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSD8 I.D. 1HE07
 STATION DESIGNATION 139

CONSC CAST # 147
 DEG 59 MIN 07
 LONGITUDE 170 17.97 W
 DATE JD= APR 07
 TIME (GMT) 0043
 DRY BULB 0.2
 WET BULB .
 PRESSURE 010
 SEA STATE *
 VISIBILITY *
 WIND DIRN. 042
 WIND SPD. 12
 CLOUD (amt) *
 WEATHER *
 BOTTOM DEPTH 68
 STA. NAME/ID XT11-9

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) = 2030

PAR S/N
 FLUOR S/N

MAX. DEPTH = 64 m

FIRED 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	64			57	059	-1.8								
2	50			58										
3	40			59										
4	30			60										
5	20			61										
6	10			68										
7	8			69	117	-1.8								
8	0			70										
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSDR I.D. 11HE07
 STATION DESIGNATION 140

CONSC CAST # 1485917.26 N
 LATITUDE 17012.48 W
 DATE JD= 30 APR 07
 TIME (GMT) 0217-0.2
 DRY BULB (°C) 01
 WET BULB (°C) 01
 PRESSURE (mb) 01
 SEA STATE *
 VISIBILITY (deg) 024
 WIND DIRN. (kts) 12
 WIND SPD. (kts) *
 CLOUD (amt) *
 WEATHER *
 BOTTOM DEPTH (m) 66
 STA. NAME/ID X1110

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) = 1420
 REMARKS
 MAX. DEPTH = 62 m

FIREDD DEPTH 62
 ROSETTE notes
 SALT NUTS 71
 Oxygen 190
 O2 Temp -1.8
 CHL.
 DOM
 Ray Prod ALK (MC) DIC (MC)
 Melissa Tish
 N15 P32 NO3
 Isotopes
 Comment or Others

SEQ.	DEPTH DESIRED	ROSETTE notes	SALT	NUTS	Oxygen	O2 Temp	CHL.	DOM	Ray Prod	Melissa	Tish	N15	P32	NO3	Comment or Others
1	62			71	190	-1.8									
2	50			72											
3	40			73											
4	30			74											
5	20			75											
6	10			76											
7	8			77	219										
8	0			265	78										
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															

Notes on Surface Ice Conditions or proximity to ice edge
 9/10 melted, soured, dirty

VESSEL USCG Healy
 CRUISE ID H10701
 PROJECT & LEG BEST07
 DSD8 I.D. 1HE07
 STATION DESIGNATION 141

CONSC CAST #
 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

1495918.111N
 17012.10W
 30 APR 07
 0609-11.6
 .
 03
 * * *
 04912
 * * *
 60 ICE-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
 JD/TIME
 PAR on Bridge (μEinsteins m-2s-1) =
 REMARKS
 Ice station 45

PAR S/N
 FLUOR S/N
 MAX. DEPTH = 61 m

FIRED SEQ.	DEPTH DESIRED	ROSETTE notes	SAMPLE BOTTLE NUMBERS				Ray				Isotopes			Comment or Others		
			SALT	NUTS	Oxygen	O2 Temp	CHL.	DOM	Prod	ALK (MC)	DIC (MC)	N15	P32		N03	
1	61			79												
2	50			80												
3	40			81												
4	30			82												
5	20			83												
6	10			84												
7	8			85	197	-1.8										
8	0			105												
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION											
USCG Healy		H10701		BEST07		1HE07		142											
CONSC CAST #	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
1505907	07.30	25 N	17042.85 W	30 APR 07	0823	0.9	11.2	45					8	9				74	XI2-1
SBE 9+	TIMES		JD/TIME		PAR on Bridge (μEinsteins m-2s-1) =		REMARKS												
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														
FIRE	DEPTH	ROSETTE	SAMPLE BOTTLE NUMBERS		Ray	Melissa	Tish	Isotopes			Comment or Others								
SEQ.	DESIRED	notes	SALT	NUTS	Oxygen	O2 Temp	CHL	DOM	Prod	ALK (MC)	DIC (MC)	N15	P32	N03					
1	62		259	166	172	-1.7													
2	60			167			✓												
3	50			108								X							
4	40			109			✓												
5	30			110			✓												
6	20			111			✓												
7	10			112			✓												
8	8				37	-1.0													
9	0				113		✓												
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			

Fluor volts spiked 2 coming up

Notes on Surface Ice Conditions or proximity to ice edge

Fluor volts < 1.5

Summed ed by pancake is -95%
referenceing