PARS loca & bar

PRESS SN VESSEL USCG Healy SBE 9+ Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN SEQ. FIRED DEPTH 025 CAST # 15 <u>.</u> 17 6 12 5 æ ဖ 6 DESIRED 70 2 60 40 233 30 i 50 20 4 0 1 70 LATITUDE 20,37 N K ROSETTE POSITION CRUISE ID HE0701 AT SURFACE AT DEPTH START DOWN DATA ON 18541 PAR S/N LONGITUDE #107Q SALT SAMPLE BOTTLE NUMBERS \ \ \ \ \ JD/TIME NUTRIENTS 8 23 22 М DATE JD= X 25 ٩ 00 E DAY PROJECT & LEG BESTO7 A P R 중 CHL. Bot. no. FLUOR S/N 787 288 288 289 289 30 0 ⋨ 7 0845 PAR on Bridge (μEinsteins m-2s-1) = CK2422 픘 TIME (GMT) 5N2+51 MIN Prod DRY BULB 32,7 12 æ DSDB I.D. 1HE07 6 ALK (MC) WET BULB 3,44 Melissa (း) DIC (MC) PRESSURE Tish SEA STATE VISIBILITY Dan Dan 4612 DIRN. OWPONU WIND SPD. STATION DESIGNATION COMMENTS CLOUD (amt) MAX. DEPTH = REMARKS TYPE Yall Cles WEATHER BOTTOM DEPTH 00 (m) 8 STA. NAME/ID 3 2 702

DEG MIN SEC COND SN
FIRED DEPTH VESSEL USCG Healy SBE 9+ PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN SEQ. CONSC CAST # Notes on Surface Ice Conditions or proximity to ice edge 16 등 4 = 17 12 ᇹ 9 œ 7 တ S w DESIRED 52 0550 125 20 00 g ç 8 7 0 LATITUDE ROSETTE POSITION S X15 11850 35-Ç0 z CRUISE ID HE0701 TIMES AT SURFACE AT DEPTH START DOWN DATA ON 65 PAR S/N LONGITUDE 4 243 SALT SAMPLE BOTTLE NUMBERS 6 1 × 2 JD/TIME NUTRIENTS 4 28 29 DATE 36 36 DAY *1*2 3 7 is is 35 PROJECT & LEG BESTO7 CHL. Bot. no. 0 중 FLUOR S/N R 0 ⋨ 7 PAR on Bridge ( $\mu$ Einsteins m-2s-1) = TIME (GMT) 돐 2 *co* <u>\text{X}</u> Prod 34,6 DRY BULB Ray (ီ) DSDB I.D. 1HEO7 工 ALK (MC) WET BULB Melissa <u>ೆ</u> DIC (MC) 0 (mb) PRESSURE Tish SEA STATE VISIBILITY DIRN. N2/10 STATION DESIGNATION SPD. <u>-</u> (kts) COMMENTS JANSON, MAX. DEPTH = REMARKS CLOUD (amt) TYPE WEATHER BOTTOM DEPTH 37 6 STA. NAME/ID 3 6 U 4 3

SEC TEMP SN PRI COND SN PRESS SN SBE 9+ GO 45 4 29. PRI TEMP SN SEC COND SN Notes on Surface Ice Conditions or proximity to ice edge SEQ. FIRED DEPTH 16 15 4 1 17 13 12 5 9 ထ တ Ś DESIRED 304 5 795 20 0 D ROSETTE POSITION 3 0 N 1 6 TIMES AT SURFACE AT DEPTH START DOWN DATA ON PAR S/N 427 SALT SAMPLE BOTTLE NUMBERS 0 JD/TIME NUTRIENTS ₹ ie 356 上 20 D 2 DAY 정 P CHL. Bot. no. 70 FLUOR S/N 0 7 PAR on Bridge (µEinsteins m-2s-1) 1342 픘 <u>X</u> Prod ₽ Q ೆ ALK (MC) Melissa ိ <u>و</u> و DIC (MC) (mb) Tish MOG 26 - 8 (kts) COMMENTS MAX. DEPTH = REMARKS (E) 6 ST 3

VESSEL USCG Healy

CRUISE ID HE0701

PROJECT & LEG BESTO7

CAST #

LATITUDE

LONGITUDE

DATE JD=

TIME (GMT)

DRY BULB

WET BULB

PRESSURE

SEA STATE

DIRN.

SPD.

TYPE WEATHER

BOTTOM DEPTH

STA, NAME/ID

はかって

202

CLOUD (amt)

3.46

92%

DSDB I.D. 1HE07

STATION DESIGNATION

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SEC TEMP SN PRI COND SN VESSEL USCG Healy SBE 9+ Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN PRI TEMP SN PRESS SN 005 SEQ. CAST # FIRED DEPTH 16 4 <u>\_</u> 12 18 17 15 |= 5 9 ∞ တ Ş W 2 DESIRED 95 DEG 00 Ş 5 8 3 8 õ 0 8 LATITUDE notes ĭ ROSETTE ナヤ 90 9 1 S N ~ SALT z 407 CRUISE ID H10701 SAMPLE BOTTLE NUMBERS START DOWN TIMES AT SURFACE AT DEPTH DATA ON CPAR S/N DEG 6605. NUTS LONGITUDE 90 -6 0 N Oxygen <u>8</u> 0 JD/TIME 02 Temp 2300 2305 2300 DATE DAY PROJECT & LEG BEST07 욷 8 v FLUOR S/N ( 9 ( R DOM 0 퐀 7 3 N -6 00 PAR on Bridge (µEinsteins m-2s-1) = 230501.6 TIME (GMT) 풌 Prod Ray <u>≤</u> ALK (MC) Melissa DRY BULB 1 1 (C) DSDB I.D. 1HE07 DIC (MC) 1 WET BULB Tish (၁) 2150 N1 5 <u>Q</u> ~ 00 ~6 PRESSURE SEA STATE P32 VISIBILITY Isotopes WIND DIRN. 0 SMANS STATION DESIGNATION WIND SPD. (kts) ? CLOUD (amt) MAX. DEPTH = REMARKS TYPE WEATHER Comment or Others BOTTOM DEPTH  $\widehat{\Xi}$ 12 0 N STA. NAME/ID 712 3

VESSEL USCG Healy SBE 9+ Notes on Surface Ice Conditions or proximity to ice edge PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN 006 SEC COND SN FIRED DEPTH 16 4 <u>..</u> 12 SEQ. DESIRED CAST # ద 15 5 17 9 œ 6 ÇΠ 20 0 S 8 200 25 0 LATITUDE notes ROSETTE X χ Z 105<sub>\*</sub> SALT 591 CRUISE ID SAMPLE BOTTLE NUMBERS AT SURFACE TIMES AT DEPTH START DOWN DATA ON C PAR S/N \_\_ NUTS 0 5 平 3  $\sim$ 2 4  $\overline{\sim}$ LONGITUDE 90 Oxygen M . 0 کر ج JD/TIME 02 Temp 0534 DAY N PROJECT & LEG BEST07 운 8 CIFLUOR S/N ᅍ DOM 0 7 ⋨ 05/2/3 PAR on Bridge (µEinsteins m-2s-1) = TIME (GMT) 풌 Prod Ray Ĭ Melissa j ALK (MC) DRY BULB بر ್ರಿ DSDB I.D. 1HE07 DIC (MC) WET BULB Tish ී 7 N15 0 (mb) PRESSURE SEA STATE P32 VISIBILITY Isotopes DIRN. NO3 STATION DESIGNATION (kts) WIND SPD. Trave Gas MAX. DEPTH = REMARKS S @ . ( O' W. CLOUD (amt) TYPE WEATHER Comment or Others BOTTOM DEPTH 1 78 2/8 STA. NAME/ID ∃

SEC TEMP SN PRI COND SN VESSEL USCG Healy PRI TEMP SN PRESS SN SBE 9+ DEG MIN SEQ. 17 14 <u>-</u> FIRED DEPTH CAST # 16 15 13 12 10 စ œ 7 6 Ç 4 ω N DESIRED ပွ 40. 50 6 8 0 0 0 0 Ò 59,18 LATITUDE notes ROSETTE N N N SALT CRUISE ID H10701 TIMES SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN DATA ON 635 PAR S/N NUTS 222 27 00 アク 19 N LONGITUDE 55.71 i 靈 2 02-Mordy 02 Temp H 1 M 99 JD/TIME 4.1-DAY 12 PROJECT & LEG BEST07 유 Þ v <u>₹</u> FLUOR S/N ᄍ DOM 0 ⋨ 7 PAR on Bridge ( $\mu$ Einsteins m-2s-1) = TIME (GMT) 1102 픘 Melissa ALK (MC) DIC (MC) 06-<u>≤</u> 29:3 DRY BULB Tish DSDB I.D. 1HE07 S δ15N Isotopes 28.4 1 WET BULB 632Σi **&** 0 gases Zoops Prod Trace PRESSURE Micro SEA STATE VISIBILITY Ray 03018 DIRN. (deg) N2/Ar Masha (kts) STATION DESIGNATION SPD. MAX. DEPTH = REMARKS CLOUD (amt) Oct, det D.Sholl Radon TYPE WEATHER BOTTOM DEPTH Devol 3-02 4 STA. NAME/ID 3 C N 6 CNE

Notes on Surface Ice Conditions or proximity to ice edge

pancakes + broken 1ce ~10%

Notes on Surface Ice Conditions or proximity to ice edge VESSEL USCG Healy SBE 9+ 408 PRI COND SN SEC TEMP SN PRI TEMP SN SEC COND SN PRESS SN SEQ. 18 5 15 FIRED DEPTH CAST # 17 7 5 <u>ٿ</u> 12 ဖ o 6 7 4 ω 5 2 047 DESIRED 8 çç g g 50 0 4 LATITUDE 47.34 notes ROSETTE S S SALT z CRUISE ID H10701 SAMPLE BOTTLE NUMBERS TIMES START DOWN AT SURFACE AT DEPTH DATA ON 163 PAR S/N STUN 29 280 4 5 72) 72) <u>ω</u> m -17 CJ LONGITUDE 5,43 <u>₹</u> 02-Mordy 02 Temp 153 U JD/TIME ao ٤ G DAY 8 N 유 PROJECT & LEG BESTO7 J О <u>S</u> FLUOR S/N æ DOM 0 7 PAR on Bridge (µEinsteins m-2s-1) = TIME (GMT) 돗 364 い 中 4 ALK (MC) DIC (MC) Melissa Š 8,65 DRY BULB Tish ී DSDB I.D. 1HE07 12 615N Isotopes 2,85 WET BULB δ32Σι ھـ gases Trace <u>ه</u> PRESSURE Zoops Micro SEA STATE VISIBILITY Prod Ray 060 DIRN. N2/Ar Masha (kts) SPD. STATION DESIGNATION <u>ー</u> MAX, DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol 35 T T STA. NAME/ID 4 3 0 3

Notes on Surface Ice Conditions or proximity to ice edge VESSEL USCG Healy PRI COND SN SEC COND SN SEC TEMP SN PRI TEMP SN PRESS SN \$ 495 650 17 18 SEQ. FIRED DEPTH 4 <u>~</u> -5 \_ CAST # 12 ဖ 10 œ ത 5 4 ω 7 DESIRED 53 8 30 40 50 Ö P 0 LATITUDE notes ROSETTE 4 SALT SAMPLE BOTTLE NUMBERS CRUISE IO H10701 AT SURFACE AT DEPTH START DOWN DATA ON TIMES 191 NUTS 27/12/ (U) 2 *W* 0 LONGITUDE الم 77 02-Mordy 02 Temp -6 Ø ₹ JD/TIME DAY 12 PROJECT & LEG BEST07 욷 ₹ ъ FLUOR S/N D Nod 0 뇄 7 1405 PAR on Bridge (μEinsteins m-2s-1) = TIME (GMT) 돐 ALK (MC) DIC (MC) Melissa ₹ 3,65 DRY BULB Tish DSDB I.D. 1HE07 ò15N Isotopes ł 28.4 WET BULB 12 ∂32**Σ**I 0 gases Trace (mb) PRESSURE Zoops Micro SEA STATE VISIBILITY Prod 029 WIND DIRN. N2/Ar Masha SPD. STATION DESIGNATION (kts) ~ ~ Por MAX. DEPTH = REMARKS CLOUD (amt) Radon D.Sholl TYPE 900 WEATHER BOTTOM DEPTH 3-02 Devol 3 7 STA. NAME/ID BM2 70M2 3

Notes on Surface Ice Conditions or proximity to ice edge USCG Healy SEC TEMP SN PRI TEMP SN SBE 9+ SEC COND SN PRI COND SN PRESS SN FIRED 7 SEQ. CAST # 16 -5 14 13 12 7 φ α თ 1036 H1430 DESIRED LP ú W O 5 0 2 0 0 LATITUDE notes ROSETTE ₹ V, SALT N/6405. CRUISE ID SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN DATA ON TIMES PAR S/N NUTS de LONGITUDE 02-Mordy 02 Temp JD/TIME ٤ DATE 7 DAY PROJECT & LEG BEST07 유 v 8 FLUOR S/N D DOM 0 ₹ 7 PAR on Bridge (µEinsteins m-2s-1) = TIME (GMT) 7 돐 ALK (MC) Melissa 00 DIC (MC) DRY BULB Tish DSDB I.D. 1HE07 δ15N Isotopes WET BULB (0) δ32Σι gases Trace (mb) PRESSURE Micro Zoops Prod SEA STATE VISIBILITY × × DIRN. 351/5 N2/Ar Masha (kts) SPD. STATION DESIGNATION MAX. DEPTH = REMARKS CLOUD (amt) SAMBROTTO D.Sholl Radon TYPE PRODCAST WEATHER BOTTOM 3-02 Devol レル STA. NAME/ID 0 3

Notes on Surface Ice Conditions or proximity to ice edge SBE 9+ USCG Healy PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN SEQ. SEC COND SN \_\_ & 4 FIRED DEPTH 17 16 15 13 12 | = CAST # 9 α 7 6 4 5 DESIRED 12 0,0 6 150 25 W .9 M SPE 40 0 5 60 50 40 0 9 6 0 LATITUDE notes ₹ Ž ROSETTE 6 F Z -SALT CRUISE ID H10701 TIMES START DOWN SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH DATA ON PAR S/N H|05 ۹ O 10 STUIN 50 I W LONGITUDE 02-Mordy  $\frac{3}{2}$ × 3 JD/TIME 02 Temp DATE DAY PROJECT & LEG BESTO7 > P ĴD⊨ 운. 8 FLUOR S/N 20 DOM 0 ~ PAR on Bridge (μEinsteins m-2s-1) = 1857 TIME (GMT) 돗 1281 Melissa ALK (MC) <u>S</u> DIC (MC) DRY BULB Tish 0 (0) DSD8 I.D. 1HEO7 ی δ15N ~ Isotopes WET BULB N ბ32**%**L S gases Zoops Prod Trace **PRESSURE** Micro SEA STATE VISIBILITY WIND DIRN. 2413 N2/Ar Masha SPD. STATION DESIGNATION (kts) REMARKS CLOUD (amt) MAX. DEPTH = Radon D.Sholl TYPE WEATHER BOTTOM DEPTH 3-02 Devol STA. NAME/ID 3

CONTINUED

Ice to west, 6-8 miles

Notes on Surface Ice Conditions or proximity to ice edge SBE 9+ SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN SEQ. FIRED DEPTH 9 CAST # DESIRED F 2 00 V ROSETTE LATITUDE St. 24 23 22 20 Š F SALT z SAMPLE BOTTLE NUMBERS AT DEPTH START DOWN DATA ON TIMES AT SURFACE DEG PAR S/N 12 STUN 13 LONGITUDE 02-Mordy 02 Temp ₹ Ž JD/TIME ₹ DATE DAY N 머 A P R š FLUOR S/N DOM 0 ¥ 7 PAR on Bridge (µEinsteins m-2s-1) = TIME (GMT) 茮 Melissa ALK (MC) X Z DIC (MC) DRY BULB Tish c 615N Isotopes WET BULB <u>C</u> δ32Σι gases Trace (E) PRESSURE Zoops Micro SEA STATE VISIBILITY Prod WIND DIRN. (deg) N2/Ar Masha (kts) SPD. MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devoi 3 NOT STA. NAME/ID 3 0

2/2

STATION DESIGNATION

VESSEL USCG Healy

CRUISE ID H10701

PROJECT & LEG BEST07

DSDB I.D. 1HE07 Notes on Surface Ice Conditions or proximity to ice edge VESSEL USCG Healy PRI COND SN PRESS SN SBE 9+ SEC COND SN SEC TEMP SN PRI TEMP SN 01256 SEQ. FIRED DEPTH 7 16 15 74 10 CAST # <u>...</u> 12 \_\_ ဖ  $\infty$ თ S 4 ω DESIRED 69 60 40 03 69 8 20 0 O 0 LATITUDE notes ROSETTE <u>0</u> 207 SALT CRUISE ID H10701 SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN DATA ON PAR S/N 11/2/11/2 STUN 5 10 20 00 7 2 4 ONGITUDE 02-Mordy 02 Temp りたし 235 -1.2 0 3 w | JD/TIME 2117 とんつ DATE JD= DAY 2 A P PROJECT & LEG BEST07 운 7 < 7 ₹ FLUOR S/N D DOM 0 ž 7 PAR on Bridge (µEinsteins m-2s-1) = 2 TIME (GMT) 픘 Melissa ALK (MC) 7 <u>S</u> J DIC (MC) DRY BULB Tish 9 DSDB I.D. 1HE07 NS16 Isotopes WET BULB δ32Σι ြင 1680 gases Zoops Prod Trace 0 (mb) PRESSURE Micro SEA STATE VISIBILITY WIND DIRN. N2/Ar Masha WIND SPD. STATION DESIGNATION (kts) REMARKS CLOUD (amt) MAX. DEPTH = Radon D.Sholl TYPE WEATHER BOTTOM DEPTH 3-02 Devol ∄ 73 69 STA, NAME/ID 2 V O t F M & 3

Consenting Non #

SEC TEMP SN PRI COND SN SBE 9+ PRI TEMP SN VESSEL USCG Healy SEC COND SN PRESS SN SEQ. FIRED DEPTH 14 CAST # 8 17 -6 15 <u>\_</u> 72 1 10 9 ∞ 6 υı ω N DESIRED 5 F 05 60 50 8 O 00 90 LATITUDE notes ROSETTE 臺 9 20% SALT z SAMPLE BOTTLE NUMBERS START DOWN TIMES 16434 CRUISE ID H10701 AT SURFACE AT DEPTH DATA ON PAR S/N R NUTS とと 24 29 23 20 ナス とめ LONGITUDE 02-Mordy 02 Temp 238 ĭ 243 JD/TIME ₹ DAY 27 유민 PROJECT & LEG BEST07 7 < 70 8 FLUOR S/N DOM 0 ⋨ 7 2 PAR on Bridge (µEinsteins m-2s-1) = TIME (GMT) 픘 Melissa ALK (MC) 0 Š DIC (MC) DRY BULB Tish Ĉ DSDB I.D. 1HE07 615N Isotopes WET BULB Ĉ δ32Σι gases Zoops Prod Trace 896 0 PRESSURE Micro SEA STATE VISIBILITY WIND DIRN. 2014 N2/Ar Masha SPD. STATION DESIGNATION REMARKS CLOUD (amt) MAX. DEPTH = ID.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol 63 STA. NAME/ID 十万の七 3

Notes on Surface Ice Conditions or proximity to ice edge

014568 Notes on Surface Ice Conditions or proximity to ice edge VESSEL USCG Healy SBE 9+ SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN SEQ. FIRED DEPTH 16 14 CAST # 15 <u>\_</u>3 12 = 10 9 œ 6 5 ω DESIRED 69 0 20 8 9 60 69  $\bar{o}$ LATITUDE notes ROSETTE 9 284 SALT z CRUISE ID H10701 AT SURFACE AT DEPTH START DOWN TIMES SAMPLE BOTTLE NUMBERS DATA ON 5414911 PAR S/N NUTS XX 4% 3 ν γ 32 K LONGITUDE 02-Mordy 02 Temp 000 051 1 M S P JD/TIME 005/6 DAY W PROJECT & LEG BEST07 유 ➣ 7 Ъ 8 4FLUOR S/N æ DOM ALK (MC) 0 ¥ PAR on Bridge (µEinsteins m-2s-1) = 8 5 00 돗 TIME (GMT) ALK (MC) Ĭ DIC (MC) DRY BULB Tish ೆ DSDB I.D. 1HE07 5 615N Isotopes WET BULB (°C) ბ32Σι Trace 0 gases Zoops (mb) PRESSURE Micro SEA STATE VISIBILITY Prod DIRN. N2/Ar Masha (kts) STATION DESIGNATION WIND SPD. MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM DEPTH Devol 3-02 69 STA. NAME/ID SWOL 3

Notes on Surface Ice Conditions or proximity to ice edge SBE 9+ 0 35 17 SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN VESSEL USCG Healy <u>\_\_</u> SEQ. 16 5 7 12 = FIRED DEPTH <del>-</del>0 CAST # 9 œ 60 σ. 4 w N DESIRED Š 60 3 0 0 5 Q ō 20 0 LATITUDE notes <u>K</u> ROSETTE S 4 SALT 210 DATA ON CRUISE ID SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN LPAR S/N 6 NUTS 507 39 8 LONGITUDE 7 4 4 Ł 3 名 02-Mordy 02 Temp 024 (93 W JD/TIME -O.6 ٤ 0251 0242 DATE 운 PROJECT & LEG BESTO7 7 < 7 ъ 8 FLUOR S/N R ₽ Q X 0 ⋨ 7 PAR on Bridge (µEinsteins m-2s-1) 0242-TIME (GMT) 茮 Melissa ALK (MC) DIC (MC) 22 Tish DRY BULB Ĉ DSDB I.D. 1HE07 -0 δ15Ν δ32Σι Isotopes WET BULB Ĉ II Trace gases Zoops Prod 0 PRESSURE 00 Micro SEA STATE VISIBILITY 0 0 0 WIND DIRN. N2/Ar Masha (kts) SPO. STATION DESIGNATION 3 MAX. DEPTH = CLOUD (amt) REMARKS D.Sholl Radon TYPE WEATHER BOTTOM DEPTH Devol 3-02 74 00 STA. NAME/ID V 3 0 M6

01656 VESSEL USCG Healy SBE 9+ Notes on Surface Ice Conditions or proximity to ice edge PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN SEC COND SN FIRED DEPTH 16 15 14 SEQ. CAST # 17 3 12 \_ 10 9 ω 7 თ S 4 ω 2 DESIRED 60 ર્જ 5 8 8 0 0 0 LATITUDE notes ROSETTE ~0 9 2 SALT CRUISE ID H10701 TIMES SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN DATA ON 6 PAR S/N STUN 9 30 7 LONGITUDE 3 Ş 23 5 2 02-Mordy 02 Temp ₹ Ž ナア 94 9/ JD/TIME 8 4.0-0410 DAY W PROJECT & LEG BEST07 유. 7 1 7 9 5 FLUOR S/N æ DOM 0 ⋨ 7 <u>つ</u> PAR on Bridge (µEinsteins m-2s-1) TIME (GMT) 퓼 + Melissa ALK (MC) DIC (MC) <u>≼</u> Ø JEN SAT DRY BULB Tish DSDB I.D. 1HE07 615N Isotopes WET BULB <u>ී</u> δ32Σι 257 gases Trace 0 (mb) PRESSURE N Zoops Prod Micro SEA STATE VISIBILITY Ray WIND DIRN. √ı —€ N2/Ar Masha (kts) STATION DESIGNATION SPD. 6 REMARKS CLOUD (amt) MAX, DEPTH = D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devo <u>Z</u> 0 STA. NAME/ID 410 3

VESSEL USCG Healy SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN SBE 9+ FIRED SEQ. CAST # 16 15 7 12 1 14 70 17 Q œ 7 თ S 4 ω N DESIRED DEPTH 0 4 5 B \? 0 0 0 LATITUDE notes ROSETTE 40N/6536. 7 42 SALT CRUISE ID H10701 AT DEPTH SAMPLE BOTTLE NUMBERS START DOWN DATA ON AT SUBPACE CIPAR S/N NUTS 8 62 5 S 59 88 LONGITUDE 02-Mordy 02 Temp 6 64/ 80 W ( 3 A P R Po90 4.2 0613 DATE JD= DAY PROJECT & LEG BEST07 운 7 9 8 1 CFLUOR S/N DOM 0 7 ⋨ PAR on Bridge (μEinsteins m-2s-1) = 0613 TIME (GMT) 픘 Melissa ALK (MC) DIC (MC) DRY BULB 7 Tish DSDB I.D. 1HE07 77 015N Isotopes WET BULB (°C) δ32Σι 2,0 02 gases Тгасе PRESSURE Ray Prod Micro SEA STATE VISIBILITY WIND DIRN. N2/Ar Masha STATION DESIGNATION WIND SPD. MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol 5 -0 STA. NAME/ID 20M8 3

Notes on Surface Ice Conditions or proximity to ice edge

USCG Healy ∞ -0 SBE 9+ SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN SEQ. FIRED DEPTH CAST # 16 4 12 15 13 17 70 Q ထ 7 6 S 4 ω 2 DESIRED 9 0th 05 20 0 O LATITUDE notes N ROSETTE 9 子 N F SALT CRUISE ID H10701 SAMPLE BOTTLE NUMBERS START DOWN TIMES AT SURFACE AT DEPTH DATA ON PAR S/N NUTS 14 5 64 63 8 1 20 LONGITUDE C 72 / C 74 /\* 02-Mordy 02 Temp W 8 JD/TIME 4.0-× DATE DAY W 욷 PROJECT & LEG BEST07 8 P FLUOR S/N æ DOM 0 ⋨ < 7 のももの PAR on Bridge (μEinsteins m-2s-1) = TIME (GMT) 픘 Melissa ALK (MC) DIC (MC) 0, 56435 DRY BULB Tish DSDB I.D. 1HE07 015N Isotopes < WET BULB c ბ32∑ι とう gases Trace *₩* (mb) PRESSURE Ray Prod Micro SEA STATE VISIBILITY WIND DIRN. S . N2/Ar (kts) STATION DESIGNATION Masha WIND SPD. MAX. DEPTH = REMARKS CLOUD (amt) Radon D.Sholl TYPE WEATHER BOTTOM DEPTH 3-02 Devo 2 STA. NAME/ID **6** VO 七 ∃ 6

Notes on Surface Ice Conditions or proximity to ice edge

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Notes on Surface Ice Conditions or proximity to ice edge											0	0	8	8	ह	50	60	~62×	DESIRED	DEPTH	NS OF	NS G	IP SN	NS	z		957	DEG	44.	,	aly
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ir proxi											77	7/	75	74	12	W.	7/	70	NUTS	SAMPLE BOTTLE NUMBERS	PAR S/N	AT SURFACE	AT DEPTH	START DOWN	NO N	S	0	DEG	딘		CRUISE ID H10701
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Notes on Surface Ice Conditions or proximity to ice edge

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USCG Healy	H10701	BEST07		1HE07						200	
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CAST # LATITUDE	LONGITUDE DATE	JD=	<u> </u>	DRY BULB	WET BULB	PRESS	VISIBI DRN.	SPD. OI	TYPE WEAT	DEPTH S	STA. NAME/ID
DEG	-	MO YR	+	(°C)	(°C)		*	(kts)	*	$\Box$	
0245719.31	4 N 1 C C 19. 5 8 W 13	A P R 0 7	11944-	ω	-14.5	3	348	2		707	0 9 1
SBE 9+	TIMES JD/TIME								REMARKS	-	
PRESS SN	DATA ON	PAR	on Bridge (μ	PAR on Bridge (µEinsteins m-2s-1)	2s-1) =						
PRI TEMP SN	START DOWN										
SEC TEMP SN	AT DEPTH										
PRI COND SN	AT SURFACE					25		Ŋ	MAX. DEPTH =	u	3
SEC COND SN	PAR S/N	FLUOR S/N									
FIRED DEPTH ROSETTE	SAMPLE BÖTTLE NUMBERS		Melissa	Tish	Isotopes	Trace Mi	Micro Ray	Masha	D.Sholl	Devol	
SEQ. DESIRED notes	SALT NUTS 02-Mordy 02 Temp	CHL. DOM	ALK (MC) DI	DIC (MC)	δ15N δ32Σι	gases Zo	Zoops Prod	N2/Ar	Radon	3-02	
1 647	214 75										
2	79	\									
3 (S	0.5							<u>.</u>		İ	
4 30+	80										
5 200	82										
6 0	83	\ \		68							2
	84 60 -0.8										
&											
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VESSEL USCG Healy SBE 9+ PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN P215726. Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN SEQ. FIRED DEPTH CAST # 14 = 16 15 13 12 10 17 9  $\infty$ Ø S ω 2 DESIRED 8 30 100 3 t. S 0 0 LATITUDE 26,47 notes ROSETTE 28 SALT 166 CRUISE ID H10701 DATA ON AT SURFACE START DOWN TIMES SAMPLE BOTTLE NUMBERS AT DEPTH PAR S/N \_ NUTS 0 3 92 m 42 33 8 30. LONGITUDE 16,08 02-Mordy 02 Temp 2017 4 S JD/TIME -0.7 DAY W PROJECT & LEG BEST07 어. 8 Ъ FLUOR S/N æ DOM 0 ⋨ 7 PAR on Bridge (µEinsteins m-2s-1) = DEL 1 TIME (GMT) 1228 풄 ALK (MC) Melissa DIC (MC) DRY BULB Tish W c C DSDB I.D. 1HE07 41 ò15N Isotopes WET BULB <u>.</u> δ32Σι S W gases Zoops Trace PRESSURE Micro SEA STATE VISIBILITY Prod Ray 35249 WIND DIRN. N2/Ar WIND SPD. STATION DESIGNATION Masha REMARKS CLOUD (amt) MAX. DEPTH = Radon D.Sholl TYPE WEATHER BOTTOM DEPTH 3-02 Devol 7070112 و STA, NAME/ID ∃

moderate snow low up

Notes on Surface Ice Conditions or proximity to ice edge maderate show

18	17	16	15	14	13	12	11	10	9	00	7	თ	رم د	4	ω	2	_	SEQ.	FIRED	SEC COND SN	PRI COND SN	SEC TEMP SN	PRI TEMP SN	PRESS SN	SBE 9+	4 22	CAST #	CONSC	VESSEL USCG Healy
											O,	1 0	35	80	8,	27	2	DESIRED	DEPTH	D SN	NS (	P SN	NS			257		<u> </u>	aly
											1	1	7	1	1	1		notes	ROSETTE							<u>\</u> \}	LATITUDE	25,83	
																		ω I	1E							7 Z N	m	ű	
																		SALT	SAMPLE	PAR S/N	AT SURFACE	AT DEPTH	START DOWN	DATA ON	TIMES	1 166			CRUISE ID H10701
											766	98f	746	%	95	94	93	NUTS	SAMPLE BOTTLE NUMBERS	S/N	ACE	로	NWO	z		<u>7</u>	LONGITUDE	1784	Б
																		02-Mordy 02 Temp	NUMBERS						JĽ	<u></u>  ₹	JE J	19	
																		/ 02 Tem							JD/TIME	\(\frac{1}{\times}\) \(	DATE		
								-			1			(	7	1		어.								<u>₩</u> ₽ 8	 		PROJECT BEST07
									<u>                                     </u>									DOM		FLUOR S/N						R 0 7	-		PROJECT & LEG BEST07
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																		ALK (MC) DIC (MC)	-					Bridge (μΕ		0 ×	+		
																		(MC)	Tish					PAR on Bridge (µEinsteins m-2s-1)		<u>ب</u> ق	DRY BULB		DSDB I.D. 1HE07
								a										815N 8	Isotopes					i-2s-1) =		1 G	WET B		7 I.D.
																		δ32Σι gases	Trace					"		(J)	Ē		
																		es Zoops Prod	ce Micro							رى <sup>و</sup> *	SE.	A STATE	-
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								<u> </u>										N2/Ar	Masha							5 o 6			STATIC
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																		ղ 3-02	II Devol		TH=				VI	(E)	DEPTH		ATION O
																					Ţ					0 0	$\top$	<u> </u>	
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IF 1913 photo - 24 July 2000

18	17	16	15	14	13	12	11	10	9	00	7	6	C/	4	ω	2	_	SEQ. D	FIRED	SEC COND SN	PRI COND SN	SEC TEMP SN	PRI TEMP SN	PRESS SN	SBE 9+	523	CAST #		USCG Healy
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																<u></u>			ROSETTE								LATITUDE	31,46	:
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										7		V 1	7	<u>~</u>	7		190	lordy	LE NUMBERS						JD/	2.29 w	LONGITUDE	000	
										\	(	(	1	,	_		-1.6	02 Temp   CHL.							JD/TIME	DAY A	DATE JD=		BES
										< .		<	<	4		4		L. DOM		FLUOR S/N						P R O 7	-		BEST07
																		ALK (MC)	Melissa					PAR on Bridge (µEinsteins m-2s-1)		HE ON ME	TIME (GMT)	<u>\$</u>	
														٠				DIC (MC)	Tish					(µEinsteins m-		(°C)	DRY BULB		1HE07
																	:	δ15Ν δ32Σι	Isotopes					2s-1) =	- 1	14.14 (°C)	WET BULB		
											:							gases Zoops	Trace Micro							4 (mb) *	PRESS SEA S VISIBII	TATE	
																		Prod	Rav							(deg)	WIND DIRN.		
											==							N2/Ar Radon	Masha D.Sholl		MAX, DEPTH =				REMARKS	(kts) * *	SP N CLOUI	O (amt)	-   
																		on 3-02	holi Devol		EPTH =				S	* (E)	WEAT BOTTOM DEPTH	HER Z	7
																					п					- E O C	STA. NAME/ID		

SEC COND SN
FIRED DEPTH VESSEL USCG Healy PRI COND SN SEC TEMP SN SBE 9+ Notes on Surface Ice Conditions or proximity to ice edge PRI TEMP SN 6245730. PRESS SN SEQ. DESIRED CAST # 16 15 12 17 14 3 10 9 œ ၈ ω ω 77 7 <u>6</u> 0 I 30,87 LATITUDE notes ROSETTE -11 7 7 SALT CRUISE ID H10701 SAMPLE BOTTLE NUMBERS AT SURFACE DATA ON AT DEPTH START DOWN 16702 PAR S/N SLOIN CATOLINE SE 28 2 2 X 75 \$ LONGITUDE 62,56 02-Mordy 02 Temp 6 , 2 w 1 JD/TIME DATE ش PROJECT & LEG BEST07 유 Þ 8 FLUOR S/N ᅍ DOM 0 7 PAR on Bridge ( $\mu$ Einsteins m-2s-1) = 1647 픗 TIME (GMT) かやた ALK (MC) Melissa DIC (MC) . . . . DRY BULB Tish DSDB I.D. 1HE07 δ15Ν δ32Σι S Isotopes WET BULB × × × < <u>ゆ</u> gases Trace PRESSURE Micro Zoops Prod SEA STATE VISIBILITY WIND DIRN. a N2/Ar (kts) STATION DESIGNATION 21 Masha WIND SPD. PREMARKS CLOUD (amt) MAX. DEPTH = D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol アーカットから NATH (TRY STA. NAME/ID 3 X  $^{k}$  $\times$ X

SEC TEMP SN PRI COND SN 925 VESSEL USCG Healy PRI TEMP SN SBE 9+ Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN PRESS SN SEQ. 4 13 = FIRED DEPTH 5 12 CAST # 5 17 5 9 œ 6 S 4 ω DESIRED 4 67 0 20 5 50 9 30 0 0 2 30,66 notes ROSETTE <u>₹</u> ڡ 43 - N 216 SALT CRUISE ID H10701 SAMPLE BOTTLE NUMBERS TIMES AT SURFACE AT DEPTH START DOWN DATA ON PAR S/N NUTS 10 8 09 171 ر ا 2 20.65w13 LONGITUDE 20.62 02-Mordy 02 Temp 207 JD/TIME 5/1 DAY PROJECT & LEG BEST07 운 7 7 7 A P R 8 FLUOR S/N 0 7 DOM PAR on Bridge (μEinsteins m-2s-1) = 118/24-3. TIME (GMT) 픘 1815 Melissa ALK (MC) DIC (MC) ₹ Z DRY BULB Tish ී DSDB I.D. 1HE07 O 912N ) Isotopes WET BULB 4.003 **∂**32Σι Trace gases PRESSURE Micro Zoops Prod SEA STATE VISIBILITY 0 DIRN. 4 N2/Ar (kts) STATION DESIGNATION 22 Masha WIND SPD. CLOUD (amt) REMARKS MAX. DEPTH = D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol 4 <u>~</u> 70415 STA. NAME/ID ₿

Ø2C VESSEL USCG Healy SBE 9+ Notes on Surface Ice Conditions or proximity to ice edge PRI TEMP SN SEC COND SN PRI COND SN SEC TEMP SN PRESS SN FIRED DEPTH CAST # 16 15 4 12 교 5 ø œ တ ω DESIRED 53 40 50 8 20 0 0 <del>ار</del> 0 LATITUDE ROSETTE notes N 10 ナルメ SALT CRUISE ID H10701 TIMES SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN DATA ON PAR S/N 5 りった STUN 0 N G 7 W LONGITUDE 219 02-Mordy 02 Temp M 2 JD/TIME だら w 1 3 A 2000 45h DATE JD= DAY PROJECT & LEG BEST07 운. 5 S v FLUOR S/N ( 8 D DOM 2 0 놨 7 PAR on Bridge (μEinsteins m-2s-1) = 2000 TIME (GMT) 픘 Melissa ALK (MC) MO WIND ¥ DIC (MC) ١ DRY BULB #SWS Tish ಿ DSDB I.D. 815N Isotopes WET BULB Ş ೆ ბ32Σι 1.4047 Trace 0 gases Zoops Prod PRESSURE Micro SEA STATE VISIBILITY DIRN. 90 N2/Ar STATION DESIGNATION 23 Masha SPD. (kts) チ REMARKS CLOUD (amt) MAX. DEPTH = D.Sholl Radon TYPE WEATHER BOTTOM DEPTH Devol 3-02 63 STA. NAME/ID 3

No ice,

NO FICE !

Notes	5	17	16	15	14	13	12	11	10	9	8	7	თ	5	4	ω	2	_	SEQ.	FRED	SEC COND SN	PRI COND SN	SEC TEMP SN	PRI TEMP SN	PRESS SN	SBE 9+	027	CONSC CAST #	VESSEL USCG Healy
Notes on Surface Ice Conditions or proximity to ice edge											0	ō	20	8	40	05	60	49	DESIRED	DEPTH	D SN	NS C	PSN	ŠN			<b>5</b> PE	-	aly
ce Co																			notes	ROSETTE							30 MM	LATITUDE	
ndition									!			X18*							SALT			-	L	(0		-	0 + z		T 0
or pro												*							T NUTS	SAMPLE BOTTLE NUMBERS	VPAR S/N	AT SURFACE	AT DEPTH	START DOWN	DATA ON	TIMES	DEG 7		CRUISE ID H10701
ximity t							ļ <u>.</u>				J. *	4	13	2	=	ত	~	જ		TTLE NUM	V			Ž			. NIM	LONGITUDE	
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-						i													ALK (MC) DIC (MC)	Melissa			5 2 C		on Bridge		より MM V	TIME (GMT)	
		1									<		<	<	~	<		<	DIC (MC)	Tish			JENS Y		PAR on Bridge (µEinsteins m-2s-1)		<u> </u>	DRY BULB	DSDB 1. 1HE07
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							33												gases Zoops	Trace Micro				, ;			(mb) * *	PRESSURE SEA STATE VISIBILITY	
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				<u>                                     </u>															N2/Ar	Masha						ğ	O (kigs)	WIND SPD.	STATIC
				_								0							Radon	D.Sholl	,	MAX. DEPTH =				REMARKS	*	CLOUD (amt) TYPE WEATHER	STATION DESIGNATION
								_											3-02	Devol		0					(m)	ВОТТОМ ДЕРТН	ATION
								-														T T					2		42
																											M17	STA. NAME/ID	

Notes on Surface Ice Conditions or proximity to ice edge

Notes on Surface los Conditions or provimity to ice adree	10	17	16	15	14	13	12	11	10	9	8	7	6	5	4	ω	2	1	SEQ. DES	FIRED DEPTH	SEC COND SN	PRI COND SN	SEC TEMP SN	PRI TEMP SN	PRESS SN	SBE 9+	0 2 8	CONSC CAST #	VESSEL USCG Healy
Curface											0	0	20	B	ф	50	60	49	DESIRED n	ヹ	Z	_	z 				DEG 4 3 0	-	
																	ļ		notes	ROSETTE							<u>0</u> №	ATITUDE	
4:4:0.50								ļ. <u>.</u>										*219	SALT	SAMP		AT SL	AT DEPTH	STAR	DATA ON	TIMES	DEG DEG	-	CRUISE ID H10701
											23	22	21	20	9	~	4	16	NUTS	SAMPLE BOTTLE NUMBERS	PAR S/N	AT SURFACE	PTH	START DOWN	9		DEG 8 9	LONGITUDE	E ID
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000										-								-1,2								JD/TIME	W 1 4	DATE	-
																			어.		FLUOR S/N						A P NO	JO=	PROJECT & LEG BEST07
-																			DOM /	_	OR S/N				PAR		0 7 O C	TIN NIT	LEG
-																			ALK (MC) DIC (MC)	Melissa			0,7		on Bridge (		)2 <u>M</u> M	TIME (GMT)	- :
																			C (MC)	Tish					PAR on Bridge (pEinsteins m-2s-1)		- 2 2 .   1	DRY BULB	DSD8 I.D. 1 HE07
-					i									e			7	F	.   δ15Ν   δ32Σι	Isotopes					1-25-1) =		(°C)	WET BULB	1.D.
																			gases	Trace					1-1-1-1		(mb)		
	-																		Zoops Prod	Micro Ray					Ò		*	VISIBILITY	
																		<u> </u> 	d N2/Ar	Masha							(deg) (kts)	WIND WIND SPD.	STA
-																			'Ar Radon	ha D.Sholl		MAX. DEPTH =				REMARKS	*	CLOUD (amt)	STATION DESIGNATION
			-		T.													_	on 3-02	holl Devol						Š	£ (£ (£ (£ (£ (£ (£ (£ (£ (£ (£ (£ (£ (£	WEATHER BOTTOM DEPTH	SNATION
		<u> </u>																				PA 119					12 70ml		
		_																									<u>3</u> <del>0</del>	STA. NAME/ID	25

race ice conditions or proximity to ice eage (ce rilsons/chunks

18	17	16	15	14	13	12	11	10	9	00	7	6	5	4	ω	2	1	SEQ.	FIRED	SEC COND SN	PRI COND SN	SEC TEMP SN	PRI TEMP SN	PRESS SN	2 P	2	CONSC CAST #	VESSEL USCG Healy
18										0	10	20	8	ફ	SD	60	49	DESIRED	DEPTH	D SN	. R	SN	NS	~ 	-	<b>₩</b>	-	aly
																		notes	ROSETTE							MIN NIN	LATITUDE	
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							<u> </u>			س	84.	20	228	27	26	25	0 24	NUTS	VIPLE BOTT	PAR S/N_	AT SURFACE	AT DEPTH	START DOWN	DATA ON	0	/ O イ	- S	H10701
										\$250						71		02-Moi	SAMPLE BOTTLE NUMBERS						0.0		LONGITUDE	
										1/2			1					02-Mordy 02 Temp	S		0200	0153	PHIC		ID/TIME	-  -	DATE	-
						$\vdash$				5			<	<	<		0	)p CHL.		L					7	Mo	[E JD=	BESTO7
							<u> </u>			7		7		7		7		MOG		FLUOR S/N					0	, ×	_	I & LEG
												,						ALK (MC)	Melissa			02		PAR on Bridge (μEinsteins m-2s-1)	1		TIME (GMT)	
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										9	7	9	9	7	<	7	<	815N	Isotop					ns m-2s-1)		5	JLB WET	1HE07
										<	<	~	7	<	7	<	~	δ32Σι	es					11			T BULB	
							+	-										gases Zoops	Trace Micro					288		(mb)	PRESSURE SEA STATE	
				:															Ray						_	(deg)	VISIBILITY  DIRN.	
																		N2/Ar	Masha		~				7	) (kts)	SPD.	- Q
		-								 								Radon	D.Sholl		MAX. DEPTH =				REMARKS	*	WEATHER	
																		3-02	Devol		= 67					(E 44	BOTTOM DEPTH	
	:																				m		i			2 2	STA. NAME/ID	26
																								<u></u>		0	E/ID	

Notes on Surface Ice Conditions or proximity to ice edge 405 ice Cover, shart cred chunks

18	17	16	15	14	13	12	-1	10	9	œ	7	6	5	4	ω	2	1	SEQ.	FIRED	SEC COND SN	PRI COND SN	SEC TEMP SN	PRI TEMP SN	PRESS SN	SBE 9+	0 0 0 0 0 0 0 0 0 0 0 0 0 0	CONSC CAST #	VESSEL USCG Healy
on Curfac											0.	10	20	8	40	8	63	DESIRED	DEPTH	D SN	) SN	P SN	NS.	_		か。	-	aly
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	6	n.		ot i	10 f	<	ľ	0 · 1	45 45		200	4	36		75	2	32	NUTS	SAMPLE BOTTLE NUMBERS	PAR S/N	AT SURFACE	PTH	START DOWN	ON		648	LONGITUDE	01 5
																	*0%q	1 2	NUMBERS		:				JD,	· \\	TUDE	
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																		DIC (MC)	Tish					PAR on Bridge (µEinsteins m-2s-1)			DRY BULB	1 HE07
																		δ15Ν δ32Σι	Isotopes					1-25-1) =		- (°C)	WET BULB	7
																		gases	Тгасе					-9h		(mb)	PRESSURE	
	 																	Zoops Prod	Micro Ray					7		3	VISIBILITY	
																		N2/Ar	Masha							(deg) (kts)		STA
																		Ar Radon	na D.Sholf		MAX. DEPTH =				REMARKS	*	CLOUD (amt) TYPE	STATION DESIGNATION
																		on 3-02	oli Devol		PTH = 6				S	<u> </u>	WEATHER BOTTOM DEPTH	NATION
		<u> </u>					I.														m 2					070m2	STA. NAME/ID	ر بر
																										120	AME/ID	1

Notes on Surface Ice Conditions or proximity to ice edge

18	17	16	15	14	13	12	11	10	9	8	7	6	W	4	ω	2	1	SEQ.	FIRED	SEC COND SN	PRI COND SN	SEC TEMP SN	PRI TEMP SN	PRESS SN	2	)	CONSC CAST #	USCG Healy
										0	ā	20	B	40	50	60	43	DESIRED	DEPTH	D SN	NS (	NS o	SN	~ 	7 + 1	ົງ	-	aly
																		notes	ROSETTE						77.0		LATITUDE	
																	*	SALT	SAI	<u></u>	AT	AT	ST/	DATA	z	>		HIGH
										25	£	4カ	83	42	(1)	E	35	NUTS	SAMPLE BOTTLE NUMBERS	MPAR S/N	AT SURFACE	AT DEPTH	START DOWN	DATA ON	509	ຄິ້	LONG	H10701
										237	,			<u> </u>				02-Mord	E NUMBERS			l	! 1		1.00	ME	LONGITUDE	
										13								02-Mordy 02 Temp				0513	0150	207 LIMIT	O W L		DATE	
																		CHL.		VELI					APR	MO	JD=	BEST07
																		DOM		FLUOR S/N		_		PAF	0 7 0 5	ž Ž		_
			×															ALK (MC)	Melissa		323	Q		PAR on Bridge (µEinsteins m-2s-1)	1   V		TIME (GMT)	
																		DIC (MC)	Tish					μEinsteins r		0	DRY BULB	1HE07
64																		ò15N 63	Isotopes					n-2s-1) =		; - (°C)	WET BULB	)7
											==							δ32Σι gases	Trace					851	0	(mb)	PRESSURE	_
																		Zoops Prod	Micro Ray							* *	SEA STATE VISIBILITY	- - -
11							<u> </u> 	<u>                                     </u>					<u> </u>			45.		d N2/Ar	Masha						7	(k	WIND WIND DIRN. SPD.	
												1.0						Ar Radon	na D.Sholl		MAX. DEPTH =			I-(mar	DE WARK	*	CLOUD (amt) TYPE	
																		n 3-02	off Devol					11/		_	WEATHER BOTTOM DEPTH	-
<u>.</u>																					15 H			1.5 with	C	) )	STA. NAME/ID	2
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032 VESSEL USCG Healy SBE 9+ Notes on Surface Ice Conditions or proximity to ice edge PRI COND SN SEC COND SN SEC TEMP SN PRI TEMP SN PRESS SN SEQ. FIRED DEPTH 18 CAST # 2 74 17 16 13 12 9 10 œ σ ω DESIRED 60 SO UT Al V to to 22 ð 20 / 8 0 0 0 クセー 十  $\infty$ < 0 LATITUDE notes ROSETTE ٥ гµ z 222 SALT 8 CRUISE ID START DOWN SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH DATA ON TIMES PAR S/N \_\_ 53 NUTS 60 125 147 55 2 67 55 LONGITUDE 02-Mordy 02-1-mp 00 JD/TIME \$ JULIE DATE JO= DAY 工 PROJECT & LEG BESTO7 욷 ⊳ ð Q FLUOR S/N D DOM 0 ¥ 7 3240 PAR on Bridge (μEinsteins m-2s-1) = TIME (GMT) 둤 ALK (MC) DIC (MC) Melissa ₹ Z DRY BULB Tish W DSDB I.D. 1HE07 N 615N Isotopes WET BULB W 632Σι 4 gases Trace 0 (mb) PRESSURE Zoops Prod Micro SEA STATE VISIBILITY Ray 258 DIRN. (deg) N2/Ar Masha SPD. (kts) STATION DESIGNATION CLOUD (amt) MAX. DEPTH = REMARKS D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol 7 17 0M22 STA. NAME/ID 57090 3 なら

Notes on Surface Ice Conditions or proximity to ice edge

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Notes on Surface Ice Conditions or proximity to ice edge

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Notes on Surface Ice Conditions or proximity to ice edge S USCG Healy SBE 9+ PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN SEC COND SN 16 **1**4 SEQ. FIRED DEPTH 12 15 CAST # 13 ဖ ¢ ത HS & S H DESIRED Q<sub>1</sub> B 00 0 5 र्ठ 0 Ø. 54,21 LATITUDE notes ROSETTE 12 6 273 SALT Z DATA ON CRUISE ID H10701 SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN TIMES 169031.79w PAR S/N 1767 6161 NUTS 2232 64 LONGITUDE 68,85 02-Mordy 02 Temp 1-1.5 DATE JD= DAY 4 PROJECT & LEG BEST07 운 1 ≻ Ъ 중 FLUOR S/N æ DOM 0 놨 7 11122 PAR on Bridge (µEinsteins m-2s-1) = 픘 TIME (GMT) Melissa ALK (MC) X DIC (MC) DRY BULB . Tish DSD8 I.D. 1HE07 CO 1 615N Isotopes WET BULB <u>(</u>ပ δ32Σι 6 gases Zoops Prod Trace Micro 4 PRESSURE SEA STATE VISIBILITY Ray 290 WIND DIRN. N2/Ar Masha STATION DESIGNATION 34 (kts) SPD. MAX. DEPTH = REMARKS CLOUD (amt) Radon D.Sholl TYPE WEATHER BOTTOM DEPTH 3-02 Devol <u></u> 3 57 E 10 F STA. NAME/ID 3

VESSEL USCG Healy PRI COND SN PRI TEMP SN 43557 Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN SEC TEMP SN PRESS SN SEQ. FIRED DEPTH CAST # 12 17 16 15 4 13 11 10 9 7 ത 4 DESIRED 827 b 30 0 0 (J) 58,60 LATITUDE notes ROSETTE S 8 N 16921. SALT CRUISE ID SAMPLE BOTTLE NUMBERS START DOWN AT SURFACE AT DEPTH DATA ON DEG PAR S/N NUTS 2 74 77 40 75 43 LONGITUDE イ 21,43 02-Mordy 02 Temp 86 W 1 4 A P R JD/TIME DAY PROJECT & LEG BEST07 운. 8 FLUOR S/N DOM 0 ¥ 7 PAR on Bridge (µEinsteins m-2s-1) = HR 1520-4 TIME (GMT) DRY BULB 1506 ALK (MC) DIC (MC) Melissa MN Tish DSDB I.D. ص) 015N Isotopes WET BULB 6 δ32Σι 0 95 Trace gases Zoops (mb) PRESSURE Micro SEA STATE VISIBILITY Prod Ray DIRN. 4318 STATION DESIGNATION 3 N2/Ar Masha (kts) SPD. CLOUD (amt) MAX. DEPTH = REMARKS D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol 60 42W0289 STA. NAME/ID 3

Ф3 658 USCG Healy Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN SBE 9+ FIRED DEPTH CAST # 17 <del>-</del>4 13 12 SEQ. 18 16 15 = 10 9 ¢ 6 Ś 4 ω N DESIRED 62 8 50 30 5 0 O 0 0 02.58 LATITUDE notes *1*7 ₹ ROSETTE ĆΤ At a (<del>)</del> SALT エルカ z CRUISE ID <u>ー</u> TIMES SAMPLE BOTTLE NUMBERS START DOWN AT SURFACE AT DEPTH DATA ON 5 PAR S/N \_ म्ब NUTS W. A. 7 1 N Q N LONGITUDE + 40,22 0 3 092 02-Mordy 02 Temp w S JD/TIME 1.8 м <u>-</u> DATE DAY Ď 운 Þ BEST07 PROJECT & LEG 7 3 v FLUOR S/N D DOM 0 ⋨ B 7 PAR on Bridge (HEinsteins m-2s-1) 픘 TIME (GMT) 6 7 ALK (MC) Melissa 5 5 <u>₹</u> DIC (MC) ad-one DRY BULB 5 Tish 3 DSDB I.D. Ś 615N 7 Isotopes WET BULB 47 δ32Σι 古の各 Trace gases Zoops Prod (dim) PRESSURE Micro SEA STATE VISIBILITY Ray WIND DIRN. <u>ω</u> <u>۔</u> ف Masha N2/Ar STATION DESIGNATION 32 (kts) SPD. CLOUD (amt) MAX. DEPTH = REMARKS D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol 200169 STA. NAME/ID 3

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Notes on Surface Ice Conditions or proximity to ice edge

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VESSEL USCG Healy SBE 9+ SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN FIRED DEPTH 85880 SEQ. CAST # 18 17 5 14 73 12 16 10 9 ω 6 189 DESIRED 60 0 w o 040 2 0 DEG r r LATITUDE <u>₹</u> notes ROSETTE 92 N 1 7005. SALT 229 CRUISE ID H10701 SAMPLE BOTTLE NUMBERS AT DEPTH START DOWN DATA ON AT SURFACE PAR S/N NUTS 787 23 2 22 7 0 LONGITUDE 02-Mordy 02 Temp 8 JD/TIME 8 W / 4 A 十, 1— DATE JD= DAY PROJECT & LEG BEST07 엄 ۲\_ FLUOR S/N Ъ 8 D DOM 0 ¥ 7 2051 PAR on Bridge ("Einsteins m-2s-1) 茮 TIME (GMT) 2.8.1- v. china ALK (MC) DIC (MC) Melissa <u>₹</u> Kent as DRY BULB Tish 171. DSDB I.D. 1HE07 W 2000 615N sotopes WET BULB < < < < < < (° δ32Σι gases Trace PRESSURE Micro Zoops Prod SEA STATE VISIBILITY 0 WIND DIRN. Masha N2/Ar (kts) STATION DESIGNATION MAX. DEPTH = REMARKS D.Sholl TYPE WEATHER Radon BOTTOM 3-02 Devol 7270M27 STA. NAME/ID 74 3

Notes on Surface Ice Conditions or proximity to ice edge

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VESSEL USCG Healy Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN 0395 SEQ. FIREO DEPTH CAST # 17 16 15 14 13 12 = 10 9 α თ DESIRED 8 40 50 6 ጸ 0 0 8 00 26. LATITUDE notes ROSETTE 7 z 228 L SALT CRUISE ID DATA ON SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN PAR S/N\_ 70 STUN 1 20 1 ずん 33 35 32 4 77 36 LONGITUDE B 450 02-Mordy 02 Temp ₹ Ž JD/TIME 2320 <u>\*</u> 2325 2320 DATE JD= DAY 4 PROJECT & LEG BESTO7 운 8 1 P  $\overline{\zeta}$ 7 5 5 5 FLUOR S/N æ DOM 0 ¥ 7 2325 PAR on Bridge (µEinsteins m-2s-1) TIME (GMT) 돗 ALK (MC) Melissa ĭ Z DIC (MC) DRY BULB Tish DSDB I.D. 1HE07 015N Isotopes WET BULB 00 632Σι 11 gases 2/60 Trace Micro PRESSURE Zoops Prod SEA STATE VISIBILITY <u>0</u> DIRN. N2/Ar Masha (kts) SPD. STATION DESIGNATION MAX. DEPTH = REMARKS CLOUD (amt) Radon D.Sholl TYPE WEATHER BOTTOM DEPTH Devol 3-02 7370M28 STA. NAME/ID Ĉ E 3

VESSEL USCG Healy PRI TEMP SN SEC COND SN PRI COND SN SEC TEMP SN PRESS SN <del>た</del> SEQ. FIRED DEPTH CAST # 18 7 16 -5 7 13 12 7 ထ S <u>⊘</u> DESIRED 89 60 0 8 8 20 0 X 0 W ATITUDE 4 ĭ notes ROSETTE 02 \*227 N 0 € 1 SALT CRUISE ID H10701 SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN DATA ON PAR S/N \_\_ STUN ŝŜ -€ -K Œ 75 7 F LONGITUDE 9 \*212 02-Mordy 02 Temp 0 JD/TIME 1 ≨ DATE JD= DAY Vί PROJECT & LEG BEST07 유 7 8 Р FLUOR S/N R DOM 0 ¥ 7 74500 PAR on Bridge (nEinsteins m-2s-1) 돐 TIME (GMT) ALK (MC) Melissa ĭ Z DIC (MC) DRY BULB Tish 9 0 hother and Dat have ී DSDB I.D. 1HE07 N ò15N Isotopes WET BULB ĉ δ32Σι 298 8 <u>. .</u> ک ナ gases Trace PRESSURE bottle-Micro Zoops Prod SOA SAVE SEA STATE VISIBILITY DOHOa WIND DIRN. 7 - 4 N2/Ar Masha . SPD. (kts) STATION DESIGNATION MAX. DEPTH = No filter on CHL CLOUD (amt) D.Sholl Fles Radon TYPE WEATHER BOTTOM Devol X 3-02 7270 Q SP 0 90 STA. NAME/ID 3 70.12.9 8

Notes on Surface Ice Conditions or proximity to ice edge

Notes on Surface Ice Conditions or proximity to ice edge In ice, 5-10m panakes 2 865 counage

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VESSEL USCG Healy Notes on Surface Ice Conditions or proximity to ice edge SBE 9+ PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN SEC COND SN 5 2 4 0 SEQ. FIRED DEPTH CAST # 18 15 13 17 16 14 12 10 9 ¢ 6 S DESIRED 60 67 40 S 30 8 Op 0 0 <u>م</u> LATITUDE ROSETTE notes 2 Z \*225 SALT CRUISE ID H10701 TIMES SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN DATA ON PAR S/N\_ 0 STUN 8 45 5 200 2 8 R 6 LONGITUDE 2 02-Mordy 02 Temp 6 4 w / JD/TIME 1 R 0508 DATE JD= DAY PROJECT & LEG BEST07 A P 운 Mo CFLUOR S/N ( 7 7 ( 7 Z DOM 0 Ŕ ~ PAR on Bridge (µEinsteins m-2s-1) 000 TIME (GMT) HR MIN Melissa ALK (MC) DIC (MC) DRY BULB 40 Tish 6 DSDB I.D. 1 HE07 7 N ò15N Isotopes WET BULB 11 Ĉ δ32Σι gases Trace (mb) PRESSURE Micro Zoops Prod 2 SEA STATE VISIBILITY WIND DIRN. 9) N2/Ar Masha (kts) WIND SPD. STATION DESIGNATION CLOUD (amt) MAX. DEPTH = REMARKS D.Sholl Radon TYPE WEATHER BOTTOM 3-02 Devol 6 STA. NAME/ID 8 3

PRESS SN VESSEL USCG Healy PRI COND SN SEC TEMP SN PRI TEMP SN 0 12 12/ SEC COND SN SEQ. DESIRED FIRED DEPTH CAST # 14 μ <u>\_</u> 17 12 16 15 = 5 9 တ 7 6 Çn 4 ω N F 8 S  $\aleph$ 0  $\widetilde{o}$ 206 LATITUDE notes ROSETTE Z 15C+ z SALT CRUISE ID H10701 TIMES SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN DATA ON MPAR S/N\_ 70 NUTS \$ 69 500 50 4 LONGITUDE 02-Mordy 02 Temp 200 Q JD/TIME 1.00 ₹ 0657 DATE JD= DAY PROJECT & LEG BESTO7 운 < C 8 FLUOR S/N ס R 0 7 DOM ¥ 00 PAR on Bridge (pEinsteins m-2s-1) 픘 TIME (GMT) ALK (MC) Melissa 5 7 DIC (MC) DRY BULB 200 Tish DSDB I.D. 1HE07 615N Isotopes WET BULB ී 632Σι gases Trace PRESSURE Micro Zoops Prod SEA STATE VISIBILITY 03523 DIRN. N2/Ar Masha SPD. STATION DESIGNATION REMARKS CLOUD (amt) MAX. DEPTH = D.Sholl Radon TYPÉ WEATHER BOTTOM DEPTH Devoi 3-02 <del>0</del>/3 2 770 STA. NAME/ID 3 M 32 62

Notes on Surface Ice Conditions or proximity to ice edge

VESSEL USCG Healy SBE 9+ PRI COND SN Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN SEC TEMP SN PRI TEMP SN PRESS SN 0445 SEQ. FIRED DEPTH CAST # 18 17 16 15 14 13 12 10 9 DESIRED 504 F 200 30 63 و ō 0 LATITUDE notes 06,41 ROSETTE 1 00 4 × 232 Z SALT 100 CRUISE ID START DOWN SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH DATA ON TIMES PAR S/N \_ 36 27 STUN 子花 ナジナ H 22 LONGITUDE 24,62 02-Mordy 02 Temp للہ س JD/TIME × --DATE JD= DAY **1** PROJECT & LEG BESTO7 욷 1 1 8 v FLUOR S/N R- 0 7 DOM ⋨ 4940-PAR on Bridge ("Einsteins m-2s-1) 938 돗 TIME (GMT) Melissa ALK (MC) DIC (MC) DRY BULB 6 Tish DSDB I.D. 1 HE07 দা δ15Ν δ32Σι Isotopes WET BULB 85% 8 Ĉ U <u>e</u> Trace gases PRESSURE Micro Zoops Prod SEA STATE VISIBILITY Ray WIND DIRN. 2817 N2/Ar Masha SPD. STATION DESIGNATION CLOUD (amt) MAX. DEPTH = REMARKS D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol 58 WO 289 8 STA. NAME/ID f 3

USCG Healy SHB SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN SEQ. FIRED DEPTH CAST # 74 ü 12 16 10 6 Ş DESIRED 5920 404 50 20 30 0 0 20,22 LATITUDE notes ROSETTE 232 SALT CRUISE ID H10701 SAMPLE BOTTLE NUMBERS DATA ON 17039 MIN AT SURFACE AT DEPTH START DOWN PAR S/N 34 NUTS 00 49 77 00 8 LONGITUDE 02-Mordy 02 Temp دن <u>(7</u> JD/TIME ٤ <u>\_</u> DAY PROJECT & LEG BEST07 은 8 P FLUOR S/N R MOG 0 ž 7 PAR on Bridge (µEinsteins m-2s-1) 1148 TIME (GMT) 픘 1142 ALK (MC) Melissa DIC (MC) DRY BULB Tish **−**U DSDB I.D. 1HE07 দ ò15N 1 Isotopes WET BULB δ32Σι T gases Trace PRESSURE Micro Zoops Prod SEA STATE VISIBILITY DIRN. N2/Ar WIND SPD. Masha STATION DESIGNATION MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM DEPTH Devol 多 3-02 上の200十分か 7 STA, NAME/ID ∃

Notes on Surface Ice Conditions or proximity to ice edge

4 4 659 0EG PRI COND SN SBE 9+ SEC TEMP SN PRI TEMP SN Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN PRESS SN SEQ. FIRED DEPTH CAST # 13 28 15 14 11 17 16 12 10 9 œ 6 4 ω DESIRED 30 3 20, 404 5 90 Ó 0 70 LATITUDE notes ROSETTE 26,25 z 233 SALT SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN DATA ON 13021 PAR S/N NUTS 305 7 83 A 7 68 ¥ 78 20 ×600 مخ 48 LONGITUDE 53,85 アピ 02-Mordy 02 Temp CHL Ś JD/TIME <u>©</u> ₹ 8.1-DATE JO= <u>L</u> DAY D P 7 7 MO FLUOR S/N æ DOM 0 Æ 7 PAR on Bridge (µEinsteins m-2s-1) ハ ウ ナ ー 돗 TIME (GMT) Sat spikes atsurface Melissa ALK (MC) DIC (MC) 1 DRY BULB \_ \_ . Tish 7 δ15N δ32Σι Isotopes WET BULB 7 <u>\_0</u> gases Trace mb) PRESSURE Micro Zoops Prod SEA STATE VISIBILITY In ~ 30% pancaka 1can DIRN. £ Masha N2/Ar (kts) WIND SPD. 0 MAX, DEPTH = CLOUD (amt) REMARKS D.Sholl Radon TYPE WEATHER BOTTOM DEPTH Devol 3-02 76M35 STA. NAME/ID 3

VESSEL USCG Healy

CRUISE ID H10701

PROJECT & LEG BEST07

DSDB I.D. 1HE07

STATION DESIGNATION 42

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Notes on S	18	17	16	15	14	13	12	11	10	9	8	7 20	6 10	5 20		3 40	2 50	1 65	SEQ. DESIRED	FIRED DEPTH	SEC COND SN	PRI COND SN	SEC TEMP SN	PRESS SIV	SBE 9+	2 4 H P	CONSC CAST #	VESSEL USCG Healy
SSS2:315										1	tracs	A VO	\	(	7 /	2	3	2	ED notes	H ROSETTE						2 3 MN	LATITUDE	
Conditions 7											A RALLOWSCA	Second .							SALT			AT	AT 5	21.25	TIMES	7 0 N	-	CRU H10
or proximit									no filk	the -	t6.00	`	2/2	35	94	93	92	91	NUTS	SAMPLE BOTTLE NUMBERS	PAR S/N	AT SURFACE	AT DEPTH	START DOWN	ES CN	7055	LONGITUDE	CRUISE ID H10701
Notes on Surface Ice Conditions or proximity to ice edge SSSペミ3I・5 7										:		法		3	8	1-12-1			02-Mordy 02 Temp	UMBERS					JD/TIME	. 5 7 W		
											<	-		_		200			emp CHL.		FI			:		DAY MO	DATE JD=	PROJECT & LEG BESTO7
79570																	•		DOM AL		FLUOR S/N				PARO	0 7 / S	TIME	& LEG
Dan capes																			ALK (MC) DIC (MC)	Melissa Tish					PAR on Bridge ("Einsteins m-2s-1)	7 7 7	TIME (GMT) DRY	-
7													=						815N	Isotopes			i		eins m-2s-1)	\frac{1}{\sqrt{2}}	DRY BULB WET	DSDB I.D. 1HE07
wagen																			δ32Σι gases	Trace						(mb)	PRESSURE	-
Diver (																			Zoops Prod	Micro Ray					ļ	O (deg)	AISIBILITY	
generally																y,			N2/Ar R	Masha D		MAX.		+	KEMAKKU	1/9	CLOUD (amt)	STATION DESIGNATION
12-10m																			Radon 3-02	D.Sholl Devol		MAX. DEPTH =		 	KKS	(E)	WEATHER	1 1
~ , ~																						=======================================		İ		7003	STA. NAME/ID	43
Z.																										0	P	

VESSEL USCG Healy SBE 9+ 8 4 8 5 9 Notes on Surface Ice Conditions or proximity to ice edge PRI COND SN PRI TEMP SN SEC COND SN SEC TEMP SN PRESS SN FIRED DEPTH SEQ. CAST # 17 15 **1**4 13 16 12 10 9 œ 60 Çī 4 DESIRED 29 53 0 W 04 104 0 0 00 ナン 43,08 LATITUDE Mazent notes ROSETTE F BECK 大くびなく N N SALT 234 98 CRUISE ID H10701 SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN DATA ON ム PAR S/N \_ NUTS 100 % 163 E 701 = <u>n</u> 0 LONGITUDE 08,32 00  $\frac{3}{2}$ 02-Mordy 02 Temp S | 9 | w JD/TIME 81/ DATE JD= DAY S PROJECT & LEG BESTO7 유 Freezing on leador, 7-0.9 m Ъ MO FLUOR S/N Z DOM. 0 ¥ 7 PAR on Bridge (μEinsteins m-2s-1) = 1727 141 TIME (GMT) 돗 ALK (MC) DIC (MC) Melissa <u>K</u> DRY BULB Tish DSDB I.D. 1HE07 4-13 015N Isotopes WET BULB ბ32Σι Ø gases 00 Trace PRESSURE Zoops Prod Micro SEA STATE VISIBILITY Ray DIRN. 5 s has packed pomeake - 95% N2/Ar STATION DESIGNATION LLL (kts) SPD. Masha Very gre MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM DEPTH Devol 3-02 STA. NAME/ID 40 8 0 3

P 4 9 ₽<u>~</u> VESSEL USCG Healy SBE 9+ Notes on Surface Ice Conditions or proximity to ice edge PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN SEC COND SN SEQ. FIRED DEPTH CAST # <u>\_</u> 16 15 13 12 17 14 7 9 œ 6 4 DESIRED Sis 50 03 500 20 07 59 0 20 Ø . 17 14 LATITUDE notes ROSETTE L2 N/7/ SALT 235 CRUISE ID H10701 SAMPLE BOTTLE NUMBERS AT DEPTH START DOWN DATA ON TIMES AT SURFACE PAR S/N\_ DEG NUTS 77.52 hol 47 106 501 (08) 10 3 . 2 LONGITUDE × 25 × 02-Mordy 02 Temp ₹ Ž 4 0 0 JD/TIME .× × 5.1-8 N N PROJECT & LEG BEST07 운 ъ MO FLUOR S/N æ DOM 0 ⋨ 7 PAR on Bridge (µEinsteins m-2s-1) 194970. 픘 TIME (GMT) ALK (MC) DIC (MC) Melissa ₹ Z DRY BULB Tish (0) DSDB I.D. 1 HEO7 9/1 615N Isotopes WET BULB δ32Σι Ĉ II gases Zoops Prod Trace 17 PRESSURE Micro SEA STATE VISIBILITY Ray 601104 DIRN. N2/Ar Masha (kts) SPD. STATION DESIGNATION 45 REMARKS CLOUD (amt) MAX. DEPTH = D.Sholl Radon TYPE WEATHER BOTTOM DEPTH Devol 3-02 270M38 STA. NAME/ID ∃

Notes on Surface Ice Conditions or proximity to ice edge

18	17	16	15	14	13	12	11 .	10	9	œ	7	6	5	4	ω	2		SEQ.	FIRED	SEC COND SN	PRI COND SN	SEC TEMP SN	PRI TEMP SN	PRESS SN	SBE 9+	50		CONSC	VESSEL USCG Healy
					0	4	3 /	01	210	41/	1 20	30	22	04	50	F	14	DESIRED	DEPTH	NS G	D SN	P SN	SN	z		20	DEG	44. ( )	aly
		<u> </u>								•	<u> </u>							notes	ROSETTE							- CA	S.	LATITUDE	
																		SALT			A	Þ	S	D		Z Z			I O
							_			,								NUTS	AMPLE BOT	PAR S/N	AT SURFACE	AT DEPTH	START DOWN	DATA ON	TIMES		DEG		CRUISE ID H10701
					~	7	- *	0	<b>.</b>	Ob	7	2)	5	~	n	12	94/4		SAMPLE BOTTLE NUMBERS				Z			50.	<u></u>	LONGITUDE	
					1		617								:		4	02-Mordy 02 Temp	ERS						JD/TIME	W Q )			
							1.8										(,2	femp CHL.			1					A		DATE JD=	PROJECT BEST07
	: 		j T					_										DOM		FLUOR S/N	\					R O	MO YR	10	PROJECT & LEG BESTO7
					1						\						;		Melissa	S/N				PAR on		722	Æ	TIME (GMT)	
									;									ALK (MC) DIC (MC)			13 O	\		PAR on Bridge (µEinsteins m-2s-1)		29-1	MN.		
															9.0				Tish					nsteins m-		1	(°C)	DRY BULB	DSDB I.D. 1HE07
-														,				δ15N   δ32Σι	sotopes					25-1) =		•	(20)	WET BULB	
																			Trace					200		03	(mb)	PRESSURE	
			<u> </u> 		×	*	   *		7	*	×	-	*					gases Zoops Prod	Micro Ray								*	SEA STATE VISIBILITY	-   ,
																		d N2/Ar	Masha							1 9 1	(deg) (kts)	WIND WIND DIRN. SPD.	\$17
	<u> </u>																	'Ar Radon			MAX. D				REMARKS	6	*	CLOUD (amt)	STATION DESIGNATION
																		don 3-02	D.Sholl Devol		MAX. DEPTH =				~KS		* (m)	WEATHER BOTTOM DEPTH	GNATION
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RADON CAST

18 1	17 4 8	16 / 10	15 V 10	14 < 20	13 / 20	12 / 35	11 / 30	10 140	ot 7 to	8 7 50	7 1 50	e 1 55	5 1 55	4 63	3 1 63	2 1 70	1 1 20	SEQ. DESIRED	FIRED DEPTH	SEC COND SN	PRI COND SN	SEC TEMP SN	PRI TEMP SN	PRESS SN		5 25 150	DEG		VESSEL USCG Healy	
																		notes	ROSETTE							× - ×	MZ	LATITUDE		
			!	:														SALT NUTS	SAMPLE BOTTLE NUMBERS	PAR S/N	AT SURFACE	AT DEPTH	START DOWN	DATA ON	TIMES	S 1 t N	DEG	LON	CRUISE ID H10701	``
				149 +1.											143-			02-Mordy 02 Temp	E NUMBERS						JD/TIME	× 20 €		LONGITUDE		
				8							:		10		20,2			Temp CHL.		I FL					m	A P		DATE JD=	PROJECT & LEG BESTO7	3.500
																		DOM ALK (N	Melissa	FLUOR S/N		ļ		PAR on Bri		0 7 2 3 3		TIME (GMT)	LEG	( )
																		ALK (MC) DIC (MC)	Tish					PAR on Bridge (μEinsteins m-2s-1)		4-10.8	MIN (°C)	T) DRY BULB	DSDB I.D.	
																		615N 632EL g	Isotopes				!	-2s-1) =			(°C)	WET BULB	I.D.	
																		gases Zoops Prod	Trace Micro Ray							40	(mb) * * (dm)	PRESSURE  SEA STATE  VISIBILITY	- - -	
																		N2/Ar	Masha		MA				750 [17]	11411	deg) (kts) *	WIND WIND SPD. CLOUD (amt)	STATION	
\	. \	`	\	X		\				\					×	\		Radon 3-02	D.Sholl Devol		MAX. DEPTH =				REMARKS	고	* * (m)	TYPE WEATHER DEPTH	STATION DESIGNATION	
																					+0 □		\	2		15 VO 24t		STA. NAME/ID	97	

Notes on Surface Ice Conditions or proximity to ice edge

Solid ice, cast was in a soft spot

S) SBE 9+ PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN 20 SEQ. 3 FIRED DEPTH CAST # 38 17 15 14 12 16 5 9 œ 6 DESIRED DEG O O LATITUDE notes ĭ ROSETTE SALT z TIMES SAMPLE BOTTLE NUMBERS AT DEPTH START DOWN DATA ON AT SURFACE DEC. PAR S/N \_ STUN LONGITUDE <u>₹</u> 02-Mordy 02 Temp CHL. JD/TIME ٤ DATE JD= DAY NO ъ FLUOR S/N æ MOG 0 ⋨ 7 PAR on Bridge (pEinsteins m-2s-1) 돐 TIME (GMT) Melissa ALK (MC) <u>≤</u> DIC (MC) DRY BULB Tish (00) 015N Isotopes WET BULB Ĉ 632Σι gases (mb) Trace Micro PRESSURE Zoops Prod SEA STATE VISIBILITY WIND DIRN. N2/Ar Masha (kts) WIND SPD. CLOUD (amt) MAX. DEPTH = REMARKS D.Sholl Radon TYPE WEATHER BOTTOM DEPTH Devol 3-02 (m) STA. NAME/ID 3

( 16 72)

STATION DESIGNATION

VESSEL USCG Healy

> CRUISE ID H10701

PROJECT & LEG BEST07

DSDB I.D. 1HE07 Notes on Surface Ice Conditions or proximity to ice edge

CRUISE ID   PROJECT & LEG   H10701   BEST07   BEST07   H10701   BEST07   H10701   H1	LONGITUDE DATE JD=  WN  DATE JD=  BESTO7  BESTO7  WR  DATE JD=  WR  VR  DAY  MO  VR  DATE JD=  WR  VR  DAY  DAY  MO  VR  DATE JD=  WR  VR  DAY  DAY  FILLOR S/N  TS  O2-Mordy O2 Temp CHL.  DOM  VR  VR  DOM  VR  VR  DOM  VR  DOM  VR  DOM  VR  DOM  VR  DOM  VR  VR  VR  VR  VR  DOM  VR  VR  VR  VR  VR  VR  VR  VR  VR  V	DSDB 1.D.   DSDB	PROJECT & LEG   DSDB I.D.	PROJECT & LEG
JD= JD= WO YR A P R 0 7 CHL DOM	JD= JD= WO YR A P R 0 7 CHL DOM	DSDB I.D.   DRY BULB   WET BULB	DSDB I.D.   DSDB II.D.   DSDB I	DSDB I.D.
	TIME (GMT) DRY B HR MIN (*C D 1 4 D 7 3  ALK (MC) DIC (MC ALK (MC) DIC (MC	DSDB I.D.   1 HEO7	DSDB I.D.   1HEO7	DSDB I.D.   STATION DESIGNA   ME (GMT)   DRY BULB   WET BULB   RESULT   STATION DESIGNA   MIND   WIND   OD   HER   CC)   ("C)   ("D)   * * (deg)   (kts) * * * *   Melissa   Tish   Sotopes   Trace   Micro   Ray   Masha   D.Sholl   ALK (MC)   DIC (MC)   615N   632Σι   gases   Zoops   Prod   N2/Ar   Radon   N2/Ar   Radon   Ra



VESSEL USCG Healy SBE 9+ 250 Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN SEQ. FIRED DEPTH CAST # <del>-</del>1 16 15 4 13 11 10 12 ¢ 6 DESIRED 60 8 E o V 5 90 0 C LATITUDE <u>-c</u> \} notes ROSETTE 200 SALT ならよ CRUISE ID TIMES SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN DATA ON DEG 26 PAR S/N NUTS 3 23 24 8 27 N 8 B 8 LONGITUDE \*060 さる \frac{3}{Z} 02-Mordy 02 Temp JD/TIME L 7.6 \$ 0556 06 06 DATE JD= 00 DAY 16 PROJECT & LEG BEST07 Þ 운 8 7 ъ FLUOR S/N R DOM 0 ¥ 7 01-8550 PAR on Bridge (µEinsteins m-2s-1) 돐 TIME (GMT) Melissa ALK (MC) <u>S</u> DIC (MC) DRY BULB Tish DSD8 I.D. 1HE07 6 015N Isotopes WET BULB (00) П δ32Σι gases Trace 0 PRESSURE Micro Zoops Prod SEA STATE VISIBILITY Ray 3 WIND DIRN. 07 N2/Ar Masha STATION DESIGNATION WIND SPD. MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM 3-02 Devol STA. NAME/ID ₃ 84

Notes on Surface Ice Conditions or proximity to ice edge

The shy weeks to go back I face to the training to open a proceed for year to grave your the short to go to grave of the short the species of peace to peace to go to go to grave your.

18	17	16	15	14	13	12	 / 10	9	∞ ∞	7 10	6 20	5 30	4 40	3 50	2 60	1 805-6	SEQ. DESIRED	FIRED DEPTH	SEC COND SN	PRI COND SN	SEC TEMP SN	PRI TEMP SN	PRESS SN	+ 6	202420	DEG	CONSC	VESSEL USCG Healy
																·	notes	ROSETTE								X Z	LATITUDE	
								V 39	38	7 37 TE 1	136	V 35	134	V 33	/ 32	V 31	SALT NUTS	SAMPLE BOTTLE NUMBERS	PAR S/N	AT SURFACE	AT DEPTH	START DOWN	DATA ON	╛	Z 	DEG	LO2	CRUISE ID H10701
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								4	8:1-	_	<		~	<		!	Temp CHL.							ł	1 6 A		DATE JD=	PROJECT & LEG  BESTO7
																	DOM ALK (MC)	Melissa	FLUOR S/N			7	PAR on Br		200	YR HR N	TIME (GMT)	ree
									7.0		:						NC) DIC (MC)	Tish		0°0°		o Wester	PAR on Bridge (¡Einsteins m-2s-1)		7	MIN (°C)	T) DRY BULB	1 HE 07
												202					015N 032Σι g	Isotopes				1 Se. /	-2s-1) =		2.6	0	WET BULB	7 .b.
																	gases Zoops Prod	Trace Micro Ray				and the second			7 0	*	PRESSURE  SEA STATE  VISIBILITY	
							<u> </u>										N2/Ar	Masha		M/				RE		(deg) (kts) *	DIRN. SPD. CLOUD (am	STATION
						-											Radon 3-02	D.Sholl Devol	.	MAX. DEPTH =	I mally	than a	Didhon	REMARKS	7	* (m)	TYPE WEATHER DEPTH DEPTH	STATION DESIGNATION
					III.		-												2	0 mloke	le cuovale	221	10		870m42		STA. NAME/ID	1 49

Notes on Surface Ice Conditions or proximity to ice edge 5582 317)

18	17	16	15	14	13	12	11	10	9	00	7	ത	v	4	ω	2	_	SEQ.	FIRED	SEC CO	PRI CC	SEC TI	PRI TE	PRESS SN	SBE 9+	2		CONSC CAST #	USCG Healy
										0	01	20	30	OH	50	1.0	20/2	DESIRED	DEPTH	SEC COND SN	PRI COND SN	SEC TEMP SN	PRI TEMP SN	SN		(J)		T#	Healy
																	8,7 65	RED	H	<u>_</u> ا	1		١	. 1		0	5		
									<u> </u>									notes	ROSETTE		!					0 7	S S	LATITUDE	
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								-									Dr.	SALT	S		Α.	>	S		-	Z	_		Ι. (
						_	_										(i)	1	AMPLE	PAR S/N	AT SURFACE	AT DEPTH	START DOWN	DATA ON	TIMES		25.0		H10701
		5								47	314	45	(717	43	57	1/4	48	STUN	SAMPLE BOTTLE NUMBERS	S/N	ACE	I	ŇWO	~		0		LONG	,
				ļ														02-№	NUMB							<u>O</u>	<u></u>	LONGITUDE	
			_			_			ļ			_						lordy C	RS						JD/TIME	W CE	_		
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					<u> </u>	1		<u> </u>							<u> </u>					FLUO		I	l	l		RO	_		BESTO7
																		DOM		FLUOR S/N		1		احا		7	ž		- 3
					-				$\vdash$								-	ALK (MC)	Melissa	,				PAR on Bridge (¡¡Einsteins m-2s-1)			돐	TIME (GMT)	
					-	-									_				33	l l				ridge (ı		W	<u>Z</u>		-
																		DIC (MC)	Tish					Einstei		10	(°C)	DRY BULB	
								_		_							_	61	ıs					ns m-2s		6.			1HE07
				-	_	-					_							ò15N ð3	Isotopes					:-1) =			(20)	WET BULB	
						ļ	-	-	_					1				δ32Σι g										JLB	
					je!	_	:											gases Z	Trace M							7		PRESSURE SEA STATE	-
					24						<u> </u>						<u> </u>	Zoops Pi	Micro R							OJ		VISIBILITY	
																		Prod	Ray							250	(deg)	WIND DIRN.	
8.																		N2/Ar	Masha			:			ļ		(kts)	wind SPD.	
			112			_									_	_	_				MAX.				REMARKS		*	CLOUD (amt)	
																		Radon	D.Sholl		MAX. DEPTH =				RKS		*	WEATHER	-
																		3-02	Devol		"					70	3	ВОТТОМ DEPTH	G
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apening from 15km of hand sold ies

5. Edg of I moun journing between Churches

18	17	16	15	4	-	<u></u>	12	1	10	9	ω	7	6	S	4	ω	2	_	SEQ.	FIRED	SEC COND SN	PRI COND SN	SEC TEMP SN	DRI TEMP SN	PRESS SN	ا م	0 5	CAST #	CONSC		USCG Healy
										Q	<b>Q</b>	0	20.	30	, St	50,	B	63-	DESIRED	DEPTH	SN	) SN	NS.	£ 	-		6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				Jy.
										1	1 not	1			1	\			notes	ROSETTE							Q MN 0 . Q 3	LATITUDE	20,00	<b>L</b>	
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Notes on Surface Ice Conditions or proximity to ice edge

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5 5 0 SBE 9+ VESSEL USCG Healy Notes on Surface Ice Conditions or proximity to ice edge PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN SEC COND SN SEQ. FIRED DEPTH 8 <u>..</u> CAST # 17 14 ű 16 5 12 œ w တ S 4 DESIRED DEG र्ठ 95 95  $\mathcal{S}$ 20 0 0  $\mathcal{O}$ X LATITUDE notes <u>×</u> ROSETTE 20 がかり Z SALT CRUISE ID H10701 SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN DATA ON PAR S/N η Ω NUTS 79 8 2 5 80 LONGITUDE 98 8 £ 4 40 K 02-Mordy 02 Temp 20 JD/TIME 七十 × ×.1. 2129 DAY 0 PROJECT & LEG BEST07 운  $\leq$ < FLUOR S/N Ъ 8  $\infty$ DOM , 0 Part/ T 퓼 5 7 12 PAR on Bridge (µEinsteins m-2s-1) = 돐 TIME (GMT) Melissa ALK (MC) DIC (MC) 29-11 Ø Q DRY BULB Tish DSDB I.D. 1HE07 XM ò15N /wh. Isotopes WET BULB ී δ32Σι スよう gases Trace O PRESSURE Micro Zoops Prod SEA STATE VISIBILITY Ray WIND DIRN. 0 1 98 N2/Ar Masha (kts) SPD. STATION DESIGNATION MAX. DEPTH = CLOUD (amt) REMARKS CAFA by notadim of CTD. on bottom some and Roselle WAS set down Radon D.Sholl TYPE WEATHER BOTTOM DEPTH Devol 3-02 3 354 VO 209 STA, NAME/ID S

Notes on Surface Ice Conditions or proximity to ice edge

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VESSEL USCG Healy

> CRUISE ID H10701

PROJECT & LEG BESTO7

DSDB I.D. 1HE07

STATION DESIGNATION

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VESSEL USCG Healy Notes on Surface Ice Conditions or proximity to ice edge PRI TEMP SN SBE 9+ 7000 SEC COND SN PRI COND SN SEC TEMP SN PRESS SN SEQ. FIRED DEPTH CAST # 188 16 -15 74 ü 17 12 70 9 œ S S ω DESIRED 6034 8 S 05 ō 0 99 LATITUDE notes ROSETTE رن س おか。 SALT DATA ON CRUISE ID H10701 SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN PAR S/N 8554 STUN W 200 4 13 127 132 02 125 LONGITUDE 02-Mordy 02 Temp 120 230 1 w 4 JD/TIME 12 ا ا DATE DAY 2 4 PROJECT & LEG BEST07 유. 5 v FLUOR S/N æ DOM 0 ⋨ 7 1-4850 PAR on Bridge (µEinsteins m-2s-1) TIME (GMT) 돘 Melissa ALK (MC) <u>₹</u> DIC (MC) DRY BULB Tish DSDB I.D. 1HE07 4 ò15N Isotopes WET BULB ි 632Σι gases 0 (mb) Trace PRESSURE Zoops Micro SEA STATE VISIBILITY Prod Ray 6314 WIND DIRN. Masha N2/Ar WIND SPD. STATION DESIGNATION CLOUD (amt) MAX. DEPTH = REMARKS D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol thV0289 63 95 STA. NAME/ID ∃

VESSEL USCG Healy SBE 9+ Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN 063604 SEQ. FIRED DEPTH CONSC CAST # 15 ū 12 3 17 16 ---7 = 9 ¢ σ σ DESIRED 50 00 5 20 0 90 LATITUDE notes ROSETTE س لا \*262 SALT CRUISE ID H10701 TIMES AT DEPTH START DOWN DATA ON SAMPLE BOTTLE NUMBERS PAR S/N AT SURFACE 7338 STUN 136 137 3 (%) US -138 3 LONGITUDE 139 0%9 02-Mordy 02 Temp JD/TIME \* DATE JD= DAY PROJECT & LEG BEST07 유 8 P R FLUOR S/N DOM 0 ∌ 70 PAR on Bridge (nEinsteins m-2s-1) = TIME (GMT) 픘 <u>구</u> ALK (MC) Melissa Q P <u>'</u> DIC (MC) DRY BULB HSIT Ĉ DSDB I.D. 1HE07 ò15N Isotopes WET BULB (°C) 632Σι gases Trace PRESSURE Micro Zoops Prod SEA STATE VISIBILITY Ray WIND DIRN. 6217 N2/Ar (kts) WIND SPD. STATION DESIGNATION Masha MAX. DEPTH = CLOUD (amt) REMARKS D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol STA. NAME/ID 3 4

Notes on Surface Ice Conditions or proximity to ice edge SBE 9+ 0 17 SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN VESSEL USCG Healy 5 15 13 PRESS SN 7 12 5 FIRED DEPTH φ ထ 5 CAST # DESIRED 0 50. र्ठ 70, 2 60 2 - Thomas O 754 LATITUDE notes 11 5 and 1258 ROSETTE ₹ Ž 54.50 ナ SALT SAMPLE BOTTLE NUMBERS AT SURFACE START DOWN AT DEPTH DATA ON CRUISE ID 173491 PAR S/N NUTS 4 00 3 4 0 2 ئی LONGITUDE 49.32 222 02-Mordy 02 Temp 7 <u>×</u> JD/TIME 10 DAY A P PROJECT & LEG BESTO7 유 8 FLUOR S/N æ Danc DOM 0 7 ¥ 0926 PAR on Bridge (µEinsteins m-2s-1) 茮 TIME (GMT) Melissa ALK (MC) X Z now benter DIC (MC) DRY BULB ish 11. 0-14 DSDB I.D. 1HE07 δ15N Isotopes 2000 WET BULB δ32Σι gases Trace PRESSURE # Zoops Micro SEA STATE VISIBILITY Prod DIRN. 0 019 N2/Ar Masha 2 STATION DESIGNATION 58 SPO. MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol **9** 8370 M 4 9 STA. NAME/ID 3

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Notes on Surface Ice Conditions or proximity to ice edge 1499 SBE 9+ 18 5 PRI COND SN PRI TEMP SN VESSEL USCG Healy SEQ. SEC COND SN SEC TEMP SN PRESS SN 6 4 3 = 5 FIRED DEPTH 12 CAST # φ |ω o 5 w DESIRED 6 1 3 ٥ 50 14 0/ 60 20 20 工 8 0  $\omega$ 00 0 冗 7 がか 200 ROSEJTE notes  $\Box$ S 20 3 63 LATITUDE W ンと N Q. 20 SALT z CRUISE ID H10701 START DOWN SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH DATA ON TIMES رب س PAR S/N S 10 28 344 W 3 STUN 7 0 N 7 LONGITUDE 4 1 小 0.0 20 60 60 02-Mordy 02 Temp 1 × JD/TIME 上江 DATE DAY TA P R 足 PROJECT & LEG BESTO7 Š FLUOR S/N DOM 0 ⋨ Sal. 7 PAR on Bridge (µEinsteins m-2s-1) TIME (GMT) **N** 돐 ri ALK (MC) Melissa . 100 <u>S</u> DIC (MC) DRY BULB Tish Ξ DSDB I.D. 1HE07 Isotopes 1 615N 632E WET BULB ī 12 gases Trace PRESSURE Zoops Micro SEA STATE VISIBILITY Prod WIND DIRN. 7 N2/Ar Masha (kts) SPD. STATION DESIGNATION MAX. DEPTH = REMARKS CLOUD (amt) Radon D.Sholl TYPE WEATHER BOTTOM DEPTH 3-02 Devol 6 STA. NAME/ID 5 N 5/05 N 5/02 100 3 5/0 401 103

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3 Apr 17 2007	-1.1754	59.694	-1.1742	25.777906	31.8793	25.6294	305.540	-1.1754	1440.42
17:		0.020	0.0004	0.000324	0.0003	0.0003	0.148	0.0004	0.00
4 Apr 17 2007	-1.6820	49.587	-1.6813	25.267742	31.7279	25.5184	331.592	-1.6820	1437.62
17:		0.022	0.0012	0.000596	0.0007	0.0006	0.088	0.0012	0.01
5 Apr 17 2007	-1.6903	39.247	-1.6897	25.254029	31.7243	25.5157	332.220	-1.6903	1437.40
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7 Åer 17 2007	-1.6936	29.122	-1.6931	25.246537	31.7236	25.5152	332.515	-1.6936	1437.22
17:		0.025	0.0004	0.000277		0.0003	0.066	0.0004	0.00
8 Apr 17 2007	-1.6965	19.152	-1.6962	25.239376	31.7231	25.5148	332.643	-1.6965	1437.05
17:	•	0.021	0.0001	0.000182	0.0003	0.0002	0.106	0.0001	0.00
9 Apr 17 2007	-1.6957	19.142	-1.6954	25.240012	31.7231	25.5148	332.596	-1.6957	1437.05
17:05:06	-	0.026	0.0002	0.000156	0.0002		0.087	0.0002	0.00
10 Apr 17 2007	-1.6952	15.086	-1.6950	25.238781	31.7233	25.5150	332.746	-1.6952	1436.99
17:05:50	_	0.026	0.0001	0.000129	0.0002	0.0002	0.087	0.0001	0.00
11 Apr 17 2007	-1.6964	11.185	-1.6962	25.235839	31.7230	25.5148	332.696	-1.6964	1436.92
17:		0.023	0.0001	0.000199	0.0003	0.0002	0.107	0.0001	0.00
12 Apr 17 2007	-1.6967	11.184	-1.6965		31.7232	25.5149	332.691	-1.6967	1436.92
17:0		0.023	0.0002			0.0002	0.093	0.0003	0.00
13 Apr 17 2007	-1.6972	9.296	-1.6971	25.234407	31.7231	25.5148	332.661	-1.6972	1436.88
17:		0.022	0.0002	0.000182	0.0003	0.0002	0.095	0.0002	0.00
14 Apr 17 2007	-1.6967	7.244	-1.6966	25.233812	31.7230	25.5148	332.678	-1.6967	1436.85
17:08:28		0.023	0.0002	0.000163	0.0003	0.0002	0.083	0.0002	0.00
15 Apr 17 2007	-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	-1.7003	3.065	-1.7002	25.229346	31.7232	25.5150	332.710	-1.7002	1436.77
								1 1 1 1	

Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN
FIRED DEPTH PRI TEMP SN 16 PRI COND SN SEC TEMP SN S8E 9+ 068 VESSEL USCG Healy PRESS SN 8 15 4 <u>\_</u> 12 SEQ. DESIRED 5 မ ¢o CAST # 7 o 4 S w 1 3 8 8 69 9 8 20 ō  $\propto$ <del>ار</del> ا LATITUDE notes ROSETTE 19 SALT N17342. SAMPLE BOTTLE NUMBERS AT SURFACE CRUISE ID AT DEPTH START DOWN DATA ON PAR S/N \_\_ 14 STUN 北 F. 20 5 ONGITUDE 880 \* 02-Mordy 02 Temp 8 × 24 JD/TIME 7.1 × 1 J 2 운 PROJECT & LEG BEST07 ⊳ 8 ס AFLUOR S/N æ DOM 0 ž 7 THE THE PAR on Bridge (µEinsteins m-2s-1) = 2004-12 TIME (GMT) ALK (MC) DIC (MC) Melissa Q Q DRY BULB Tish DSDB I.D. 1HE07 615N Isotopes WET BULB δ32Σι C C 1090 gases 9 Trace (dE) PRESSURE Micro Zoops SEA STATE VISIBILITY Prod HAZ Š DIRN. 024 Ü Masha N2/Ar SHY (kts) SPD. STATION DESIGNATION USE heatchuz MAX. DEPTH = CLOUD (amt) REMARKS Radon D.Sholl TYPE 4 WEATHER BOTTOM DEPTH 3-02 Devol ع 7270MS3 STA. NAME/ID 62 3

heavy see + freezeng

Notes on Surface Ice Conditions or proximity to ice edge 069 SBE 9+ VESSEL USCG Healy 17 SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN 8 6 -5 74 PRESS SN 3 10 SEQ. FIRED DEPTH 12 CAST # Q ω တ 4 Çη ω N DESIRED 0 20 ō S OS 60 49 0 9 43 LATITUDE notes ROSETTE 64 N 1 73 \* 263 SALT SAMPLE BOTTLE NUMBERS CRUISE ID H10701 AT SURFACE AT DEPTH START DOWN TIMES DATA ON STON 2 23 35 E B S 5 5 2 LONGITUDE 2/2/2 02-Mordy 02 Temp 8.1- 490\* 12 × JD/TIME DATE 1 A A F 유 ğ PROJECT & LEG BEST07 < š FLUOR S/N ᄍ DOM MO 0 ¥ 7 2 1 PAR on Bridge (µEinsteins m-2s-1) TIME (GMT) 픘 ALK (MC) DIC (MC) Melissa 46-12. U DRY BULB Tish DSOB I.D. 1HE07 615N Isotopes WET BULB δ32Σı 10 1990 gases Trace 2 (a) PRESSURE 0 Zoops Prod Micro SEA STATE VISIBILITY 958 WIND DIRN. N2/Ar Masha 2 (kts) SPD. STATION DESIGNATION MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM DEPTH Devol 3-02 15 WO 2 12 STA. NAME/ID 3 0 Š

Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN
FIRED DEPTH SBE 9+ VESSEL USCG Healy PRI COND SN SEC TEMP SN PRI TEMP SN 18 16 15 PRESS SN 1901 SEQ. 13 12 7 CAST # φ ∞ თ DESIRED S 60 Z 60 20 0 00 0 5 LATITUDE notes ROSETTE \_1 S 269 SALT z SAMPLE BOTTLE NUMBERS AT DEPTH START DOWN DATA ON 17406 CRUISE ID AT SURFACE STUN 35 60 62 6 2 56 3 Sp. 5 LONGITUDE 430 02-Mordy 02 Temp CHL. 8 00 2 % JD/TIME ×-1.8 X DATE JD= 90 PROJECT & LEG BEST07 AP < 8 FLUOR S/N æ MOG 0 ¥ V PAR on Bridge (µEinsteins m-2s-1) 0 돗 TIME (GMT) Melissa ALK (MC) DIC (MC) Q 19-11. 0 DRY BULB Tish DSDB I.D. 1HE07 0 615N 032E Isotopes < 7 < WET BULB Trace gases PRESSURE 3 4 Micro Zoops SEA STATE VISIBILITY Prod 0 DIRN. 00 9 N2/Ar Masha 29 (kts) SPD. STATION DESIGNATION MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER S WO 2 4 900 BOTTOM DEPTH Devol 3-02 STA. NAME/ID 3

Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN
FIRED DEPTH PRI COND SN PRESS SN 140 VESSEL USCG Healy SBE 9+ 18 17 16 SEC TEMP SN PRI TEMP SN -SEQ. 74 13 12 = 10 ဖ CAST # ∞ Δ တ DESIRED 9 89 6 60 0.5 5 0 8 0 00 0 LATITUDE notes ROSETTE 6 0 SALT みん z DATA ON SAMPLE BOTTLE NUMBERS AT SURFACE START DOWN CRUISE ID H10701 PAR S/N AT DEPTH 1275 NUTS 5 67 66 8 9 2 2 LONGITUDE 250 810 02-Mordy 02 Temp Oζ 5 JD/TIME 1 **\*** \\ \\_1 DATE JD= DAY DQ. 운 ΑP PROJECT & LEG BESTO7 FLUOR S/N ١ æ DOM 0 퐀 7 0240-11. PAR on Bridge (µEinsteins m-2s-1) TIME (GMT) 퐀 ALK (MC) DIC (MC) Melissa Q <u>₹</u> Ó DRY BULB Tish DS08 I.D. 1HE07 2 δ15N | δ32Σι Isotopes WET BULB 6 Iř gases 200 Trace PRESSURE Zoops Micro SEA STATE VISIBILITY Prod 352 DIRN. N2/Ar Masha SPD. STATION DESIGNATION MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM 3-02 Devol 000 STA. NAME/ID 77 3

Notes on Surface Ice Conditions or proximity to ice edge 07262 SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN SBE 9+ VESSEL USCG Healy 16 SEQ. 18 7 5 7 FIRED DEPTH  $\bar{\omega}$ 12 <u>...</u> CAST # 10 ဖ ∞ 7 6 4 S DESIRED 04 60 30 र्ट 20 20 10 20 0 LATITUDE notes ROSETTE 1 92 4 4 1 N 5 S 194° SALT SAMPLE BOTTLE NUMBERS CRUISE ID H10701 AT SURFACE AT DEPTH START DOWN DATA ON NUTS SIN LONGITUDE 04 4 Q 20 202 02-Mordy 02 Temp 235 1 JD/TIME 4,4 20 DAY *ο***Q** > 유 PROJECT & LEG BEST07 8 / FLUOR S/N ס æ DOM 0 퐀 7 PAR on Bridge (µEinsteins m-2s-1) 11-6090 TIME (GMT) ్ల Melissa ALK (MC) DIC (MC) <u>S</u> 0 DRY BULB Tish DSDB I.D. 11HE07 2 615N Isotopes WET BULB ბ32∑ι C) II gases 0 Trace 25 PRESSURE Zoops Prod Micro SEA STATE VISIBILITY DIRN. V N2/Ar Masha *ا*لا (kts) SPD. STATION DESIGNATION MAX. DEPTH = REMARKS CLOUD (amt) Radon D.Sholl TYPE WEATHER BOTTOM DEPTH Devol 3-02 6 STA. NAME/ID 3 66

Notes on Surface Ice Conditions or proximity to ice edge 77 PRI COND SN VESSEL USCG Healy 15 SEC COND SN SEC TEMP SN PRI TEMP SN PRESS SN 07362 12 12 SEQ. 7 <u>\_</u> 10 FIRED DEPTH CAST # 8 თ ഗ DESIRED 60 40 8 b 0 0 LATITUDE notes ROSETTE 7 SALT z DATA ON SAMPLE BOTTLE NUMBERS START DOWN CRUISE ID AT SURFACE AT DEPTH TIMES UPAR S/N\_ 7444 STUN 4 5 ū \_ 124 741 0 w W LONGITUDE 1 1 1 なげ 02-Mordy 02 Temp SH SH 04 W JD/TIME 水水 でて DATE DAY 00 PROJECT & LEG BEST07 유 FLUOR S/N ъ Š ᄍ DOM 0 7 PAR on Bridge ("Einsteins m-2s-1) TIME (GMT) Melissa ALK (MC) DIC (MC) 11-11 DRY BULB Tish a DSDB I.D. 1HE07 δ15N δ32Σι الم الم isotopes 20 No.X ~ WET BULB Ħ gases Zoops Prod Trace Micro PRESSURE SEA STATE WIND DIRN. (deg) (kts) N2/Ar Masha SPD. STATION DESIGNATION MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devo 6 STA. NAME/ID 3 67

Notes on Surface Ice Conditions or proximity to ice edge 074 VESSEL USCG Healy SBE 9+ 28 16 PRI COND SN PRI TEMP SN 17 SEQ. SEC COND SN SEC TEMP SN PRESS SN <u>-</u>5 14 ゴ FIRED DEPTH <u>-</u>3 12 <u></u> CAST # φ œ တ (J) 4 ω N < < < DESIRED 5 36 30 36 30 20 B 8 0 W 0 2 6  $\overline{\circ}$ LATITUDE notes ROSETTE 5 9 7240 SALT z DATA ON CRUISE ID H10701 SAMPLE BOTTLE NUMBERS AT SURFACE START DOWN AT DEPTH 16951 PAR S/N STUN 7 22 20 LONGITUDE 9 02-Mordy 02 Temp Ĭ 7 0 0 JD/TIME -2.O 1 2 1 ٤ DAY 2 PROJECT & LEG BESTO7 유 MAS 5 FLUOR S/N 0 ᅍ DOM 0 퐀 7 0 PAR on Bridge (µEinsteins m-2s-1) TIME (GMT) 둤 Melissa ALK (MC) DIC (MC) 11-14 <u>S</u> DRY BULB Tish Ĝ DSD8 I.D. 1HE07 0 615N 200 Isotopes WET BULB δ32Σι ೆ II \* Co gases Trace Micro Ray 0 PRESSURE X Zoops Prod SEA STATE VISIBILITY Š 2 75 2 202 204 70 ナーロセア WIND DIRN. samples might be switched N2/Ar Masha SPD. STATION DESIGNATION MAX. DEPTH = REMARKS CLOUD (amt) Radon D.Sholl TYPE DVX. WEATHER BOTTOM Devol 3-02 PRUD STA. NAME/ID 1000 6 3 X

Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN
FIRED DEPTH +6 38S 16 PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN 075621 VESSEL USCG Healy 15 SEQ. 14 13 12 1 5 9 თ CAST # 4 u w DESIRED 20-30.1 0 loa ba notes LATITUDE ROSETTE 11.96 0 × SALT 74( z SAMPLE BOTTLE NUMBERS START DOWN CRUISE ID AT SURFACE AT DEPTH DATA ON TIMES 1021 -26 STUN 123 43 S (4) 724 LONGITUDE 15,48 υī 02-Mordy 02 Temp 190 197 49 1 4 JD/TIME <u>÷</u> 7.8 DAY 운 PROJECT & LEG BEST07 1 Þ 8 ס FLUOR S/N æ DOM 0 7 ¥ 4633 PAR on Bridge (µEinsteins m-2s-1) 0 2 20 -TIME (GMT) 픘 ALK (MC) Melissa DIC (MC) DRY BULB Tish DSDB I.D. 1HE07 S δ15N δ32Σι Isotopes 16 WET BULB Ē 00 gases Trace 0 PRESSURE Zoops Micro SEA STATE VISIBILITY Prod 3 WIND DIRN, 0 N2/Ar Masha (kts) SPD. STATION DESIGNATION MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM 3-02 Devol STA. NAME/ID SL 16/2 20 3

Notes on Surface Ice Conditions or proximity to ice edge 246 SEC COND SN PRI COND SN PRI TEMP SN SBE 9+ USCG Healy 16 SEC TEMP SN PRESS SN 18 15 4 SEQ. <u>...</u> 12 FIRED DEPTH 10 ဖ œ CAST # တ DESIRED 0 2 1 2. 200 33 26 0 9 0 LATITUDE notes 12,12 ROSETTE <u>-</u> 253 SALT SAMPLE BOTTLE NUMBERS AT DEPTH CRUISE ID AT SURFACE START DOWN DATA ON 12039. 北 STUN 25 郊女 ナた 十3% LONGITUDE 39,40 02-Mordy 02 Temp CHL 1287 102 w <u>3</u> × 1 9 JD/TIME 1.7 181 A P PROJECT & LEG MO FLUOR S/N æ DOM 0 퐀 7 PAR on Bridge ("Einsteins m-2s-1) TIME (GMT) O 픘 ALK (MC) Melissa 17 DIC (MC) DRY BULB ISH I 0 DSD8 I.D. 1HE07 ZUN 615N 3 X S Isotopes Nos WET BULB (°C) ბ32∑⊩ Trace gases PRESSURE Zoops Micro SEA STATE VISIBILITY Prod WIND DIRN. (deg) N2/Ar Masha (kts) STATION DESIGNATION 70 SPO. MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE SCS by warking WEATHER BOTTOM DEPTH 3-02 Devol <u>رم</u> ت STA, NAME/ID S 1 0 3 3

Notes on Surface Ice Conditions or proximity to ice edge 17 SBE 9+ VESSEL USCG Healy SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN 4 15 15 14 SEQ. FIRED DEPTH PRESS SN 15 12 φ CAST # ထ ტ 4 DESIRED 0 12 82 E 30 0 797 LATITUDE notes ROSETTE <u>()</u> SALT z CRUISE ID SAMPLE BOTTLE NUMBERS AT SURFACE TIMES AT DEPTH START DOWN DATA ON 171 PAR S/N 304 358 E 62 NUTS 87 . 2 LONGITUDE 木 4 4 19,40 02-Mordy 02 Temp 1219-20 250 48 w 19 JD/TIME DATE DAY 0 욷 PROJECT & LEG BESTO7 ΑP 8 FLUOR S/N æ DOM 0 놨 7 PAR on Bridge (µEinsteins m-2s-1) ---TIME (GMT) 돐 561 ALK (MC) Melissa <u>-</u> DIC (MC) DRY BULB Tish DSDB I.D. 1HE07 4 615N - 15 Isotopes WET BULB 03251 0 Trace gases 0 PRESSURE Zoops Prod Micro SEA STATE VISIBILITY WIND DIRN. 0 N2/Ar Masha (kts) SPD. STATION DESIGNATION 7 MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER воттом вертн Devo 3-02 00 T STA. NAME/ID 212 3

Notes on Surface Ice Conditions or proximity to ice edge PRI COND SN SEC TEMP SN PRI TEMP SN SBE 9+ VESSEL USCG Healy <del>-</del>2 16 SEC COND SN PRESS SN 07862 74 13 12 FIRED DEPTH 1 5 9 CONSC CAST # ത DESIRED St な程 ナナ Ŝ, 8 0 90 notes LATITUDE ROSETTE 58,11 00 Ð 200 SALT N 1 7 1 28. 66 W 1 9 A P SAMPLE BOTTLE NUMBERS CRUISE ID AT SURFACE AT DEPTH TIMES START DOWN DATA ON PAR S/N 1984 NUTS V 133 773-多少 188 A 1.1-20a-172 flooting is at surface 78 LONGITUDE 56, 22 02-Mordy 02 Temp JD/TIME 운 PROJECT & LEG BEST07 <u>K</u> FLUOR S/N æ DOM 0 Q 퐀 7 PAR on Bridge (µEinsteins m-2s-1) 5041 TIME (GMT) 돗 boll 11-207 ALK (MC) DIC (MC) Melissa Bottom = 32.8 6 IJ DRY BULB Tish 32.43 DSDB I.D. 1HE07 9 δ15N 1 Isotopes WET BULB ũ ιδ32Σι 0 Learn gases Trace 0 7 PRESSURE Micro Zoops SEA STATE 7 15 minutes clearing VISIBILITY Prod 0 Ray WIND DIRN. G N2/Ar Masha SPD. STATION DESIGNATION (kts) \$ MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol 9 985LOK 6 STA. NAME/ID 6 3 1

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Notes	<u></u>	17	16	15	14	13	12	13	10	9	œ	7	6	5	4	ω	2	1 1	SEQ.	FIRED	SEC COND SN	PRI COND SN	SEC TEMP SN	PRI TEMP SN	PRESS SN	SBE 9+	079	CONSC CAST #	VESSEL USCG Healy
Notes on Surface Ice Conditions or proximity to ice edge					!	i						Ö	≪	10	20	30	40.	43	DESIRED	DEPTH	D SN	NS (	PSN	NS	~		DEG DEG		aly
ace Ice (		]				,											1	1	notes	ROSETTE							ME.	LATITUDE	
Conditio																			S,A	пi		:					N 0 /7		
ns or pr												83		¥	±,	10		*	SALT NI	SAMPLE E	PAR S/N	AT SURFACE	AT DEPTH	START DOWN	DATA ON	TIMES	DEG /		CRUISE ID H10701
oximity												595		46	م			£91	NUTS O	SAMPLE BOTTLE NUMBERS	N	CE	_	NWO			N Z	LONGITUDE	
to ice													1120-					1037	Oxygen (	IMBERS						JD/TIME	- N	DE L	
edge													-1,9					1-1.9	02 Temp							: ME	N DAY	DATE	
												1		7	1	1	1	22	CHL.		E						A MO	JD=	PROJECT & LEG BEST07
																			DOM		FLUOR S/N_			,	ष		YR 0 7 /	<u> </u>	rE6
*																			Prod	Ray					PAR on Bridge (µEinsteins m-2s-1)		5 MN	TIME (GMT)	
-						i								)					ALK (MO	Melissa					ge (μEinste		1 (3)	DRY BULB	
,																			ALK (MC) DIC (MC)						ins m-2s-		74		DSDB I.D. 1HE07
	1																		3)	Tish					=		(°C)	WET BULB	
																			N15								(am)	PRESSURE SEA STATE	
																			P32	Isotopes							* (deg	VISIBILITY	
																			NO3	Š							(deg) (kts)	WIND WIND SPD.	ST/
	:																					MAX.				REMARKS	ىں * *	CLOUD (amt)	ATION DES
																				Commen		MAX. DEPTH =				RKS	*	WEATHER	STATION DESIGNATION
																				Comment or Others							(m)	BOTTOM ST	7
																				S		m					5 - 6	STA. NAME/ID	(y)

Notes on Surface Ice Conditions or proximity to ice edge PRI TEMP SN SBE 9+ VESSEL USCG Healy SEC COND SN PRI COND SN SEC TEMP SN 18 17 16 15 4 <u>ــ</u> PRESS SN 12 1 5 SEQ. DESIRED FIRED DEPTH 70000 ဖ CAST # ထ ட G 80 32 0 40 Si 0 CO notes LATITUDE ROSETTE ٥ ڡ 65.2 SALT z DATA ON SAMPLE BOTTLE NUMBERS START DOWN CRUISE ID H10701 AT SURFACE AT DEPTH TIMES こった NUTS rp rp 99 3 96076 g LONGITUDE إخا 4 032 02-Mordy 02 Temp 4 - × -JD/TIME -1.9 Q. DAY ٩ 오 PROJECT & LEG BEST07 Þ P R FLUOR S/N DOM 0 ⋨ 7 7 PAR on Bridge (µEinsteins m-2s-1) TIME (GMT) 돐 ALK (MC) Melissa 34 <u>K</u> DIC (MC) DRY BULB Tish Ĝ DSDB I.D. ò15N Isotopes WET BULB <u>6</u> δ32Σι Trace gases Zoops PRESSURE Micro SEA STATE VISIBILITY Prod Ray WIND DIRN. 8 (deg) N2/Ar Masha WIND SPD. STATION DESIGNATION (kts) 4 REMARKS MAX. DEPTH = CLOUD (amt) SCS down D.Sholl Radon TYPE WEATHER BOTTOM 3-02 Devol 57 STA. NAME/ID 1 3 Ŋ

Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN
FIRED DEPTH SBE 9+ 130 VESSEL USCG Healy 15 PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN --13 SEQ. 16 14 12 11 10 CAST # ဖ œ 6 4 S w DESIRED 5 40 もも ō 20 Ы 9 77 LATITUDE notes ROSETTE 34 1 7 2 1 7 457 SALT SAMPLE BOTTLE NUMBERS CRUISE ID H10701 AT SURFACE AT DEPTH START DOWN TIMES DATA ON STUN CITO All 5 2 104 200 106 000 LONGITUDE ない。 \*21 02-Mordy 02 Temp 54 W JD/TIME \* 2,2 <u>\_</u>\_ 2 운. PROJECT & LEG BEST07 Þ PR MO FLUOR S/N DOM 0 Ś < 돴 7 PAR on Bridge (µEinsteins m-2s-1) = 2234-8 TIME (GMT) 돗 ALK (MC) DIC (MC) Melissa DRY BULB Tish DSD8 1.D. 1HE07 S K X × × 615N X XX X S Isotopes WET BULB δ32Σι ð gases Trace の七かか (a) 0 PRESSURE Zoops Micro SEA STATE VISIBILITY Prod WIND DIRN. 0 N2/Ar Masha (kts) SPD. D STATION DESIGNATION 75 MAX. DEPTH = 47 CLOUD (amt) REMARKS D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol STA. NAME/ID 17407S 3

Notes on Surface Ice Conditions or proximity to ice edge PRI COND SN SBE 9+ 082 VESSEL USCG Healy SEC COND SN SEC TEMP SN PRI TEMP SN 18 17 16 SEQ. PRESS SN 15 14 12 FIRED DEPTH 3 10 CAST # 9 œ ത S DESIRED 7 ς 62 24 x 4 20 20 8  $\frac{2}{3}$ र्ट ō X 38. LATITUDE notes ROSETTE 24 N 17218. 28 W20APRO 七万 SALT SAMPLE BOTTLE NUMBERS START DOWN CRUISE ID H10701 AT SURFACE AT DEPTH DATA ON PAR S/N STUN 三 = 2 8 -0  $\subseteq$ 27 ONGITUDE 02-Mordy 02 Temp サ 3 JD/TIME 2 1 ジエ DATE JD= 운. PROJECT & LEG BEST07 7 S FLUOR S/N DOM 퐀 7 0026 PAR on Bridge (µEinsteins m-2s-1) = TIME (GMT) Melissa ALK (MC) DIC (MC) <u>K</u> DRY BULB Tish ò DSD8 I.D. δ15Ν δ32Σι < Isotopes < < < WET BULB < < < Trace gases Zoops 20 (mb) PRESSURE Micro SEA STATE VISIBILITY Prod WIND DIRN. 0 N2/Ar Masha SPD. STATION DESIGNATION (kts) REMARKS 1702 AST CLOUD (amt) MAX. DEPTH = D.Sholl Radon TYPE WEATHER BOTTOM 3-02 Devol 525CB7N STA. NAME/ID 34 3

Notes c	18	17	16	15	14	13	12	=	10	9	00	7	<b>Б</b>	57	4	ω	2		SEQ.	FIRED	SEC COND SN	PRI COND SN	SEC TEMP SN	PRI TEMP SN	PRESS SN	N N N		CONSC CAST #	VESSEL USCG Healy
Notes on Surface Ice Conditions or proximity to ice edge												$\circ$	8	0	20	30	940	52	DESIRED	DEPTH	D SN	SN	PSN	NS		36 2	DEG		aly
ce ice C							<u> </u>												notes	ROSETTE						21	M Z	LATITUDE	
ondition		_										22							Ş	TE						N +	-	m 	1
ns or pr												7					<u> </u>		SALT	SAMPLE	PAR S/N	AT SURFACE	AT DEPTH	START DOWN	DATA ON		DEG		CRUISE ID H10701
oximity		-				_						75	ונר ב	4	4	\square \tau_{\tau}^2	+ 12	+7	Ш	SAMPLE BOTTLE NUMBERS	S/N	ACE	Í,	NWO	Z	2118		LONGITUDE	- 5
to ice e													161					143	02-Mordy	UMBERS		}			j	899	N N	UDE	
edge												:	ارم					8-1-	02-Mordy 02 Temp				į		JU/ IIME	w20	DAY	DATE	
Palyna																		-	운							A	8	JD=	PROJECT & LEG BESTO7
																			DOM		FLUOR S/N	\				R 0 7	ž		T & LEG
conditions:									_					100					ALK (MC)	Melissa		Ø			PAR on Bridge ("Einsteins m-2s-1)	0231	동	TIME (GMT)	
: M. Xed																			(C) DIC (MC)	Tish		O.	1		dae ("Ein		MZ		-
ed open													42				~			-					teins m-2	7	Ć	DRY BULB	DSDB I.D. 1HE07
A FACT A									_				×04		νο, ,	-	2007		δ15N δ32Σι	Isotopes							(°C)	WET BULB	, ,
& And																			gases	Тгасе		ļ		0503	222	0	(mb)	PRESSURE	
thin ice																			Zoops Prod	Micro							*	SEA STATE VISIBILITY	
126																			(0				:			98	_	WIND DIRN.	
																		[		Masha		MA (AM			REA	W		SE NO (amt)	STATION
												_]							Radon	D.Sholl		MAX. DEPTH =			REMARKS		*	TYPE WEATHER	STATION DESIGNATION
																			3-02	Devol		_ اکو				265	(m)	ВОТТОМ	ON I
Ì																						₃│				210		STA. NAME/ID	77
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Notes on Surface Ice Conditions or proximity to ice edge

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Longe afort councilor when iel + on bouttom Sansons be obtained and their cleaned. Lot 252.15 (both) PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN <u>~</u> 17 16 15 -3 12 4 \_ 08462 USCG Healy 10 FIRED DEPTH CAST # φ ထ တ Δī 4 DESIRED 8 / Stos. (404) Q. 30 0 A 50 유 15/ 5403 DA 1540) LATITUDE 704S 1045 Johs. notes No 248 260 SALT SAMPLE BOTTLE NUMBERS AT DEPTH START DOWN 1/7/2/401.10 CRUISE ID H10701 DATA ON AT SURFACE 15 NUTS H Ö 人 4 人 02-Mordy 02 Temp パー 680/ 20 1 × 10 A P 유 PROJECT & LEG BEST07 증 DOM 37700 PAR on Bridge (µEinsteins m-2s-1) = TIME (GMT) 5 7 ALK (MC) DIC (MC) VV 7 DRY BULB < < Tish レノ フ 7 ママ DSDB 1.D. <u>۾</u> 10 3 615N 032E 20, 704, isotopes WET BULB gases Trace PRESSURE Micro Zoops Prod ~ SEA STATE VISIBILITY < < < WIND DIRN. < 1 020 N2/Ar Masha SPD. STATION DESIGNATION MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER воттом Devol 3-02 STA. NAME/ID 3

Notes on Surface Ice Conditions or proximity to ice edge PRESS SN SBE 9+ VESSEL USCG Healy 7 SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN 0 16 SEQ. 7 <u>-</u>μ 12 \_ 10 FIRED DEPTH ω CAST # တ и 4 N S DESIRED 0 NO 0 イン 0 DEG LATITUDE notes ROSETTE SALT N/7306. TIMES SAMPLE BOTTLE NUMBERS START DOWN CRUISE ID AT SURFACE AT DEPTH DATA ON 173 LONGITUDE PAR S/N 000 NUTS a 12 S 4 02-Mordy 02 Temp 747 74 w 20 A JD/TIME 1-1,5 21-18 유 PROJECT & LEG BEST07 ъ Š FLUOR S/N ᄍ DOM 0  $\stackrel{\prec}{\approx}$ 7 PAR on Bridge (µEinsteins m-2s-1) 1203 TIME (GMT) 돐 1203 Melissa ALK (MC) DIC (MC) 1 DRY BULB Tish DSDB I.D. 1HE07 0 δ15N δ32Σı isotopes WET BULB gases Frace 0 (mb) PRESSURE Micro Zoops Prod SEA STATE VISIBILITY 27 WIND DIRN. N2/Ar Masha SPD. STATION DESIGNATION REMARKS MAX. DEPTH = CLOUD (amt) Radon D.Sholl TYPE WEATHER BOTTOM 3-02 Devol 49 STA. NAME/ID S 3 0

USCG Healy	H10701	BESTO7	1HE07	7	ST	STATION DESIGNATION 6	00
12.12	31.6		1331	SURE		D (amt)	•
CAST # LATITUDE	LONGITUDE	DATE JO= T	TIME (GMT) DRY BULB	WET BULB	VISIBI WIND WIND SPD. SPD.		M STA. NAME/ID
DEG	DEG MIN	MO YR	1 1	(mb)	* (deg)	*	
086 62112.07	N 17331.5	6 W 2 D A P R 0 7 1	338-9.3	-10.810	47	7	2716
SBE 9+	TIMES JD/TIME	TÉ .				REMARKS	
PRESS SN	DATA ON	PA	PAR on Bridge (µEinsteins m-2s-1)	2s-1) =			
PRI TEMP SN	START DOWN						-
SEC TEMP SN	AT DEPTH						
PRI COND SN	AT SURFACE					MAX. DEPTH ≈	3
ID SN	PAR S/N	FLUOR S/N					
FIRED: DEPTH ROSETTE	SAMPLE BOTTLE NUMBERS		Melissa Tish	Isotopes Trace M	Micro Ray Masha	ha D.Sholl Devol	
SEQ. DESIRED notes	SALT NUTS 02-Mordy 02 Temp	Temp CHL. DOM	ALK (MC) DIC (MC)	δ15N δ32Σι gases Zo	Zoops Prod N2/Ar	Ar Radon 3-02	
1 25	242 18 1411 -	7.8			=		
2 50	19	1					
3 401	702	(					
4 60	72	\					
5 20 /	722	1					
6	234	1					
7	DAG-						
© (7)	24 4	1					
9							
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=======================================							
12							
200							
14							
5							
16							
17							
18							
Notes on Surface Ice Conditions or proximity to ice edge	ions or proximity to ice edg	le			-		

Notes on Surface Ice Conditions or proximity to ice edge 480 PRESS SN SBE 9+ 17 USCG Healy SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN 16 5 4 72 SEQ. FIRED DEPTH 3 = 10 9 CAST # 00 6 S 4 DESIRED 17 e 404 90 30 50 0 00 1 12,28 LATITUDE notes ROSETTE 12 4 SALT Z 231 SAMPLE BOTTLE NUMBERS AT DEPTH START DOWN CRUISE ID AT SURFACE DATA ON PAR S/N 7356. 29 6 W NUTS 27 € 24 60 772 75 £ LONGITUDE 4 ٨ 56,94 02-Mordy 02 Temp 95 w 2 4 A P JD/TIME 1 a DATE JD= 운 PROJECT & LEG BESTO7 8 FLUOR S/N ъ DOM 0 첬 7 1845 PAR on Bridge (µEinsteins m-2s-1) = TIME (GMT) 1542 픗 ALK (MC) DIC (MC) Melissa <u>X</u> DRY BULB Tish ف DSDB I.D. 1HE07 (h 615N -10.2 Isotopes WET BULB δ32Σι gases Trace Micro PRESSURE Zoops Prod SEA STATE VISIBILITY 235 WIND DIRN. N2/Ar Masha WIND SPD. STATION DESIGNATION (2) (kts) 00) MAX. DEPTH = REMARKS CLOUD (amt) Radon D.Sholl TYPE WEATHER BOTTOM DEPTH 3-02 Devol 65 00 STA. NAME/ID 01 3

Notes on Surface Ice Conditions or proximity to ice edge SBE 9+ 17 SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN USCG Healy 12 SEQ. 3 4 16 74 10 FIRED DEPTH 3 = CAST # 9 œ ~ თ رب ا 4 w DESIRED Ø DEG 62 0 0 S ¥ 40. 26 5 5 ō 30 0 N DO. Ú 11.62 ROSETTE Extra-notes 1003 LATITUDE 5564 5506 5507 \$503 5562 550l 3505 OR FEE Be Kor 10 P 5 Ŋ SALT L z 232 SAMPLE BOTTLE NUMBERS CRUISE ID AT SURFACE AT DEPTH START DOWN DATA ON TIMES PAR S/N 1 P T T 37 84 プト NUTS 33 3( 32 3 LONGITUDE 1 4 1 1 1 090 015 02-Mordy 02 Temp LJ QD JD/TIME 3.1-٤ 13 DAY <del>\</del> <del>\</del> <del>\</del> <del>\</del> \ 유 PROJECT & LEG BEST07 8 σ FLUOR S/N æ DOM 0 ⋨ 7 PAR on Bridge (µ£insteins m-2s-1) 9 6131 돐 TIME (GMT) Melissa ALK (MC) <u>00</u> ₹ DIC (MC) T DRY BULB Tish N DSDB I.D. 1HE07 W <del>بد</del>ر ò15N >< 205 Isotopes >< WET BULB <u>co</u> δ32**Σ**ι Q gases Trace PRESSURE Micro Zoops SEA STATE VISIBILITY Prod DIRN. تد N2/Ar Masha SPO. STATION DESIGNATION (kts) S MAX. DEPTH = REMARKS CLOUD (amt) Radon D.Sholl Coal cost TYPE WEATHER BOTTOM DEPTH Devol 3-02 4 3 9 82 STA. NAME/ID SL 12 3

Notes on Surface Ice Conditions or proximity to ice edge PRI COND SN SEC TEMP SN PRI TEMP SN SBE 9+ VESSEL USCG Healy 15 SEC COND SN PRESS SN 089621 17 15 SEQ. FIRED DEPTH 4 ü 7 5 CAST # o თ 4 DESIRED 9 60 50 3 8 6 Ō 0  $\infty$ 2 LATITUDE notes ROSETTE 11.5774 1 NSt SALT SAMPLE BOTTLE NUMBERS CRUISE ID H10701 AT DEPTH AT SURFACE START DOWN DATA ON PAR S/N \_ たった 14 F 43 STUN 42 7 र्ट S 8 LONGITUDE T 巾 h T 1119 \* 203 02-Mordy 02 Temp 7 w 2 O A P JD/TIME 4,1, 2102 \* 11.9 DATE DAY PROJECT & LEG BEST07 운 N O FLUOR S/N æ DOM 0 7 퐀 2 PAR on Bridge ("Einsteins m-2s-1) 돐 TIME (GMT) 7 < Melissa < < < < ALK (MC) DIC (MC)  $\subset$ < < 04-6. <  $\subset$ 7 C くて DRY BULB 2 < < 1Sh < < < DSDB I.D. 1HE07 0 615N Isotopes WET BULB δ32Σ| (2) K × × 2130 gases Trace Micro PRESSURE Zoops SEA STATE VISIBILITY Prod DIRN. 2 N2/Ar Masha STATION DESIGNATION (kts) SPD. W MAX. DEPTH = CLOUD (amt) REMARKS D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol ナヤ 6 STA. NAME/ID 3

Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN
FIRED DEPTH PRI TEMP SN SBE 9+ PRI COND SN SEC TEMP SN PRESS SN VESSEL USCG Healy 8 16 5 SEQ. 09062 4 13 12 \_\_ = ဖ œ თ CAST # 4 S ω N DESIRED 24 60 0 5 20 g, 00 0 LATITUDE notes ROSETTE × √ × \*234 54 SALT AT SURFACE SAMPLE BOTTLE NUMBERS START DOWN CRUISE ID AT DEPTH DATA ON TIMES · 0115t NUTS 62 6 60 2 8 55 200 LONGITUDE 02-Mordy 02 Temp 2 × 4 JD/TIME DATE JD= DAY 년 : PROJECT & LEG BESTO7 ➣ 8 ס FLUOR S/N æ DOM 0 ⋨ 7 PAR on Bridge (µEinsteins m-2s-1) = 0230-TIME (GMT) 돐 ALK (MC) DIC (MC) Melissa Tish DRY BULB DSDB I.D. Isotopes 615N WET BULB δ32Σι Ĉ 2080 gases Trace PRESSURE Zoops Micro SEA STATE VISIBILITY Prod Ray DIRN. 2 N2/Ar Masha WIND SPD. STATION DESIGNATION (kts) MAX. DEPTH = REMARKS CLOUD (amt) Radon D.Sholl TYPE WEATHER BOTTOM 3-02 Devol 54 STA. NAME/ID 175 48 3

Notes on Surface Ice Conditions or proximity to ice edge SBE 9+ VESSEL USCG Healy SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN 000 8 17 <u>6</u> -5 14 3 5 SEQ. FIRED DEPTH 12 စ CONSC CAST # ထ ക ψı 4 N DESIRED 0 9 40 R, 8  $\infty$ 20 ō 10 DÇ LATITUDE notes ROSETTE 9 × z SALT CRUISE ID SAMPLE BOTTLE NUMBERS TIMES AT SURFACE AT DEPTH START DOWN DATA ON PAR S/N 7532.95 w21 STON 23 7 70 42 89 43 8 55 64 67 LONGITUDE 200 02-Mordy 02 Temp X08K 11.8 JD/TIME DATE DAY Ψ AP PROJECT & LEG BEST07 \_B= 유 <u></u> FLUOR S/N æ DOM 0 7 兹 PAR on Bridge (μEinsteins m-2s-1) = 1840 TIME (GMT) 돐 Melissa ALK (MC) DIC (MC) <u>K</u> Ī DRY BULB Tish بر DSDB I.D. 1HE07 -0 615N Isotopes < 7 <  $\subset$ < C WET BULB δ32Σι Ć 1520 gases Trace (dm) PRESSURE Micro Zoops Prod SEA STATE VISIBILITY 63 WIND DIRN. Masha N2/Ar SPD. STATION DESIGNATION Ŕs) < W MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol 90 00 STA. NAME/ID 3

Notes on Surface Ice Conditions or proximity to ice ledge SBE 9+ VESSEL USCG Healy 17 PRI COND SN SEC TEMP SN PRI TEMP SN 8 16 15 14 SEC COND SN PRESS SN 13 12 10 SEQ. FIRED DEPTH 092621 9 CAST # œ 7 മ տ DESIRED 4 148 5 q 3 8 60 20, Š 82 555 正 53 O ROSETTE notes LATITUDE 3 5 69 <u>در</u> <  $\leq$ V2 SALT z 23% misting. DATA ON CRUISE ID AT SURFACE AT DEPTH START DOWN SAMPLE BOTTLE NUMBERS 5.45541 PAR S/N 1 STUN 777 44 7354 300 うった 30 H セナノ 797 LONGITUDE 0 02-Mordy 02 Temp X ₹ JD/TIME 21 DAY 오 PROJECT & LEG BEST07 ΑP å S FLUOR S/N æ DOM 0 ⋨ 13+0 PAR on Bridge (µEinsteins m-2s-1) TIME (GMT) 풌 ALK (MC) DIC (MC) Melissa U DRY BULB Tish A DSDB I.D. 1HE07 0 δIŚN Isotopes 文 × ҳ X WET BULB C° δ32Σι 1 × gases Trace PRESSURE 0 Micro Zoops SEA STATE VISIBILITY Prod 000 DIRN. N2/Ar Masha SPD. (kts) STATION DESIGNATION MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM 3-02 Devol N 0 STA. NAME/ID 3 98

Notes on Surface Ice Conditions or proximity to ice edge PRESS SN SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN SBE 9+ 093 VESSEL USCG Healy SEQ. <del>-</del>8 7 16 15 14 12 FIRED DEPTH ⇉ ω 10 9 CAST # ထ 7 4 တ S N DESIRED <u></u> 8 8 3 6 E ~3 00 20 20 X 4) ('0 g 8 8 E 49 00 5 CO 413 LATITUDE notes ROSETTE 13,12 12 × 17556.55 w2 SALT CRUISE ID SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN DATA ON TIMES PAR S/N STUN LONGITUDE 56,55 02-Mordy 02 Temp 2/2 JD/TIME 6,4 DATE JD= DAY AP PROJECT & LEG BEST07 운 8 FLUOR S/N æ BOM 0 7 PAR on Bridge (µEinsteins m-2s-1) C902 0905 TIME (GMT) 茮 Melissa ALK (MC) DIC (MC) DRY BULB 57 Tish DSDB I.D. 1HE07 474 615N 83251 Isotopes WET BULB <u>/</u> Trace gases Zoops PRESSURE Micro SEA STATE VISIBILITY Prod WIND DIRN. 116 N2/Ar Masha ত্র SPD. STATION DESIGNATION 86 < < REMARKS MAX. DEPTH = CLOUD (amt) D.Sholl 7 Radon TYPE 7 WEATHER BOTTOM DEPTH 3-02 Devol 26 3 DΩ W STA. NAME/ID SI 3 Pocho Cli

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CAST # Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN
FIRED DEPTH USCG Healy 15 PRI COND SN SEC TEMP SN PRI TEMP SN SBE 9+ رم ن ن 17 16 PRESS SN <del>1</del>8 14 <u>..</u> 12 SEQ. DESIRED | = ဖ œ 6 7 S <u>ر</u> و 23 2 930 σ 0 0 O notes LATITUDE ROSETTE 1 Ĭ W-13KIND SALT z DATA ON SAMPLE BOTTLE NUMBERS AT SURFACE CRUISE ID H10701 AT DEPTH START DOWN DEG PAR S/N STUN LONGITUDE 02-Mordy 02 Temp ₹ Ž JD/TIME ₹ DAY ONTINUED 유 PROJECT & LEG BEST07 Š ъ FLUOR S/N æ DOM 0 ¥ 7 PAR on Bridge (µEinsteins m-2s-1) = TIME (GMT) 픘 Melissa ALK (MC) DIC (MC) <u>X</u> DRY BULB Tish (5) DSD8 I.D. 1HE07 615N 632E Isotopes WET BULB (0) gases Trace PRESSURE Micro Zoops SEA STATE VISIBILITY Prod WIND DIRN. (deg) N2/Ar Masha (kts) SPO. STATION DESIGNATION < MAX. DEPTH = REMARKS CLOUD (amt) Radon D.Sholl TYPE WEATHER BOTTOM 3-02 Devol STA. NAME/ID 1 3 D

Notes on Surface Ice Conditions or proximity to ice edge PRI COND SN SEC TEMP SN SBE 9+ 49461 VESSEL USCG Healy SEC COND SN PRI TEMP SN PRESS SN 17 16 15 12 SEQ. 4 <u>...</u> FIRED DEPTH 10 CAST # Q 00 4 g 5 DESIRED 1004 200 407 6 101 87 80 Q 0 0 00 37.49 37.57 LATITUDE notes ROSETTE SALT z 225 CRUISE ID H10701 SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN DATA ON 17650.33w2 PAR S/N 20 93 328 2 82 NUTS 90 89 X 284 000 3 50 27.50 £ 58 LONGITUDE 50,28 ተ HIEN 02-Mordy 02 Temp JD/TIME 585d= 0 DATE JD= A P 온 7 PROJECT & LEG BEST07 31.97 <u>K</u> FLUOR S/N æ <u>\$</u> 0 퐀 7 PAR on Bridge ("Einsteins m-2s-1) = TIME (GMT) 픘 7/1/1 Melissa ALK (MC) DIC (MC) Š  $\leq$ ~ abla< < DRY BULB Tish DSDB I.D. 1HE07 00  $\subset$ 615N 632E Isotopes < < WET BULB 65% 0 In this - locum gases Zoops Prod Trace (m) PRESSURE Micro SEA STATE VISIBILITY WIND DIRN. 42 N2/Ar Masha SPD. STATION DESIGNATION 00 MAX. DEPTH = CLOUD (amt) REMARKS 6 Radon D.Sholl TYPE WEATHER BOTTOM DEPTH 3-02 Devol 17 58 STA. NAME/ID 3 0

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Notes on Surface Ice Conditions or proximity to ice edge  $f_i \mid f_{av}$ SEC COND SN
FIRED DEPTH 1095 PRI COND SN SEC TEMP SN PRI TEMP SN SBE 9+ VESSEL USCG Healy 17 16 PRESS SN SEQ. 15 4 12 \_ 10 CAST # 9 œ φ. 4 CΠ ω DESIRED 7 135 2 35 00 6 ص ص OH 50 50 0 9 00 00 O 0 00 <u>0</u> 0 2 LATITUDE notes 24,20 ROSETTE لهر 12 SALT z 226 did wit SAMPLE BOTTLE NUMBERS CRUISE ID AT DEPTH START DOWN AT SURFACE DATA ON 17713 1035 1048 1025 1008 200 588 360 25 STUN 1019 LONGITUDE 1 43.13 3 02-Mordy 02 Temp 751 29 w 21 JD/TIME <u>-</u> س DATE DAY < 운 PROJECT & LEG BEST07 ➣ E Š o FLUOR S/N 20 DOM 1 0 ¥ N PAR on Bridge (µEinsteins m-2s-1) 185 TIME (GMT) 돐 £58 ALK (MC) DIC (MC) Melissa ľ DRY BULB Tish 47 surrounded by them, a la com i can DSDB I.D. 1HE07 615N Isotopes } WET BULB ڡ δ32Σι (7) gases Trace 8 (mb) PRESSURE Zoops Prod Micro SEA STATE VISIBILITY DIRN. 16 N2/Ar Masha (kts) SPD. STATION DESIGNATION 88 و MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 138 Devol 3-02 **∞** 35 STA. NAME/ID 10 Ld 3

50m and above

Notes on Surface Ice Conditions or proximity to ice edge SBE 9+ 17 16 PRI COND SN VESSEL USCG Healy 18 SEQ. SEC COND SN SEC TEMP SN PRI TEMP SN PRESS SN 15 14 13 12 <del>-</del>0 FIRED DEPTH 09660 CAST # 9 ထ ത S 4 w N DESIRED 20 8 50 ð 50 8 24 B 20 0 0 90 8 notes LATITUDE ROSETTE 5 Ł SALT z 227 SAMPLE BOTTLE NUMBERS CRUISE ID H10701 AT DEPTH START DOWN AT SURFACE DATA ON PAR S/N 258t STUN 117 Ξ 920 8 Z 3 4 5 0 三 LONGITUDE 243 \* 23641.2 \* 183 x ZX 02-Mordy 02 Temp 79×1.0 85 w 22 A P R JD/TIME .0.7 DATE JD= DAY Scattered 운 PROJECT & LEG BESTO7 < ₹ FLUOR S/N DOM 0 ⋨ 7 003 PAR on Bridge ("Einsteins m-2s-1) 5.75, bigger ribbons further off TIME (GMT) ALK (MC) DIC (MC) < Melissa 7  $\leq$ < < < V X Z 7 1 < ~ Tish  $\subset$ <u>'</u> DRY BULB DS08 I.D. 1HE07 K 615N < Isotopes < < < < eg7  $\subset$ < <  $\subset$ < WET BULB 632<u>\( \Sigma\) 1</u> II 1960 gases Zoops Trace 40 (mb) PRESSURE Micro SEA STATE VISIBILITY Ray WIND DIRN. 2 N2/Ar Masha 8 SPD. < STATION DESIGNATION MAX. DEPTH ≈ CLOUD (amt) REMARKS D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol 201 2 90 STA. NAME/ID 20 3 0

VESSEL USCG Healy 0 4 7 PRI COND SN PRI TEMP SN PRESS SN SBE 9+ Notes on Surface Ice Conditions or proximity to ice edge FIRED SEC TEMP SN SEC COND SN 19 SEQ. CAST # 12 13 \_ 700 17 16 7 20 7 14 φ œ **V** ത S G000 DEPTH 2500 1500 DESIRED 1000 300 / 200 / 150 / 250 / 2001 750 1 00 100 V 0 27 S 30 8 0 0 9 Ò <u>ئ</u> LATITUDE 5103 5601 notes 3606 ROSETTE 4025 3000 14 5697 200 . ? <u>هـ</u> z 228 222 SALT CRUISE ID H10701 START DOWN SAMPLE BOTTLE NUMBERS AT SURFACE DATA ON AT DEPTH 7926 PAR S/N 30 240 <u>ال</u>الم 20 0() 1 7 STUN 12 17 10 ia i 1 0 W 0 LONGITUDE (2477) 1/53 21 FIM T 02-Mordy 220 5 050 80 142 222 541 159 الا دن S  $\overline{\mathbb{Q}}$ かん といい 7.7 W. 27 グバ 3.0 02 Temp 23 w يد مد 6 22 S DATE 0 DAY W PROJECT & LEG BESTO7 þ AP 욷 <u>N</u> FLUOR S/N æ DOM 0 < 퐀 7 < 7 PAR on Bridge ("Einsteins m-2s-1) PAU 6/10 TIME (GMT) 풌 0 ALK (MC) D 2 1 < DRY BULB 5 4 Tish <u>R</u> DSDB I.D. 1HE07 2 1 015N 15otopes WET BULB <u>~1)</u> 632Σι II gases 0 Trace PRESSURE S Zoops Micro SEA STATE VISIBILITY Prod Ray WIND DIRN. < < <del>ر</del> ح V825 Masha STATION DESIGNATION N2/Ar 1921 (kts) SPD. 12 1920 537 9 103 902 トナ MAX. DEPTH = CLOUD (amt) REMARKS 4 Radon D.Sholl TYPE WEATHER 2720 BOTTOM DEPTH 3-02 Devol STA. NAME/ID 3 N. N 20 20 NOW DIONO Not Dich

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Notes on Surface Ice Conditions or proximity to ice edge PRESS SN VESSEL USCG Healy SBE 9+ PRI COND SN SEC TEMP SN PRI TEMP SN 09859 FIRED SEC COND SN SEQ. 20 <u>.</u> 7.4 CAST # 23 22 21 료 15 13 12 = 16 17 5 ဖ œ 6 DEPTH 2000 DESIRED 250 0 30 1 280 0 3001 1000 500 680 100× 40 600 ×01/2 8 0 Q ò 8 75% 8 150 1 Ø DEG 3 LATITUDE notes ROSETTE *U* v / 78 5 3 519 x 236 SALT CRUISE ID H10701 SAMPLE BOTTLE NUMBERS START DOWN DATA ON AT SURFACE AT DEPTH PAR S/N NUTS 40F 3 00 01 36 Ę س <u>و</u>ـ 4 S たる 33 32 00 N 47 30 29 26 ONGITUDE 4 X207 111× 02-Mordy 02 Temp X097 059 262 N S JD/TIME 2 2.0 2.5 Co CO <u>U</u> <u>P</u>

P =Qr 31VO DAY PROJECT & LEG BEST07 욷 정 megseeve. heely, polorscience neil maporement books FLUOR S/N Z DOM 0 ⋨ 7 PAR on Bridge (nEinsteins m-2s-1) TIME (GMT) 픗 703 ALK (MC) Melissa <u>S</u> DIC ī DRY BULB (MC) Tish Ч C C DS08 I.D. 4 515N Isotopes WET BULB δ32**Σ**ι đ < < C  $\leq$ 7 abla $\subset$ < gases Trace 0 PRESSURE Micro Zoops SEA STATE VISIBILITY Prod 026 WIND DIRN. N2/Ar Masha (kts) 29 SPD. STATION DESIGNATION MAX. DEPTH = 650 REMARKS CLOUD (amt) Radon D.Sholl TYPE WEATHER BOTTOM DEPTH 3-02 Devol 3 P STA. NAME/ID 3 3

0.50

Notes on Surface Ice Conditions or proximity to ice edge VESSEL USCG Healy SBE 9+ <del>\_</del> 17 16 5 14 <u>π</u> SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN SEQ. PRESS SN 12 10 FIRED DEPTH ဖ œ CAST # s 6 DESIRED 2 9 125 Z 7 00 5 5 20 9 0 Q 20 4 LATITUDE notes ROSETTE Ĭ 1841 NOO SALT CRUISE ID SAMPLE BOTTLE NUMBERS START DOWN TIMES AT SURFACE AT DEPTH DATA ON PAR S/N NUTS 江 25 4 Z 57 60 4 R 8 56 55 4 LONGITUDE 8.0 4204 02-Mordy 02 Temp JD/TIME 6 W 2 2 A P 1.6 DATE JD= DAY 유 PROJECT & LEG BEST07 5 FLUOR S/N æ DOM 0 놨 7 23 PAR on Bridge (µEinsteins m-2s-1) TIME (GMT) Melissa ALK (MC) DIC (MC) 72 ₹ DRY BULB Tish <u>س،</u> DSDB I.D. 1HE07 N δ15N 032Σι Isotopes 4 WET BULB 6 >< gases 0 Trace PRESSURE Micro Zoops Prod SEA STATE VISIBILITY <u>ال</u> الح DIRN. N2/Ar Masha 2 (kgs) WIND SPD. STATION DESIGNATION MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM DEPTH Devol 3-02  $\mathcal{X}$ 22 STA. NAME/ID 3

Notes on Surface Ice Conditions or proximity to ice edge SBE 9+ 17 PRI COND SN SEC TEMP SN PRI TEMP SN VESSEL USCG Healy 16 SEC COND SN PRESS SN 4 SEQ. 12 10 FIRED DEPTH CAST # φ 00 σ S ۵ N 00 DESIRED S 00 751 125 9 20 60 g र्ठ SO 2 O O Ø \frac{\sqrt{}}{+} LATITUDE notes ROSETTE 27 122 SALT 2 イナコス SAMPLE BOTTLE NUMBERS TIMES CRUISE ID AT SURFACE AT DEPTH START DOWN DATA ON PAR S/N 302 y 449 NUTS な 4 64 9 52 LONGITUDE 5 \* \*032 たとこ 02-Mordy 02 Temp 1 × 4 JD/TIME 40, \* \* 1.0 23 A P DATE 유 PROJECT & LEG BESTO7 8 FLUOR S/N æ DOM 0 7 0 PAR on Bridge (µEinsteins m-2s-1) 돐 TIME (GMT) ALK (MC) DIC (MC) < Melissa < < < < < 5 1 8 1 4 < <C DRY BULB E C <  $\subset$ C 1HE07 DS08 I.D. E 615N 7 << < < Isotopes Ź < < WET BULB δ32Σι D gases Trace 45 PRESSURE Zoops Micro SEA STATE VISIBILITY Prod WIND DIRN. N2/Ar دو 1 54 Masha SPD. STATION DESIGNATION واله 900 3 89 MAX. DEPTH = CLOUD (amt) REMARKS D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol 子 STA. NAME/ID 2 3

Notes on Surface Ice Conditions or proximity to ice edge PRESS SN SBE 9+ USCG Healy PRI COND SN PRI TEMP SN SEC COND SN SEC TEMP SN 24 23 22 27 20 17 16 -5 ω 12 FIRED DEPTH 19 SEQ. 28 <u>|</u>4 CAST # 10 9 œ σ 0 S 8 7130 DESIRED 000 5952 メ 8 (%) とい ü र्ड र्ठ 8 Ñ 5 + 100 LATITUDE ROSETTE notes 18 N CCt I N SALT 222 START DOWN AT DEPTH DATA ON CRUISE ID SAMPLE BOTTLE NUMBERS AT SURFACE NUTS Ē 4 かん ナナ 54 北 24 % \$4 2 3 121 F 120 LONGITUDE Ť 1 27 PH/\* \*222 02-Mordy 02 Temp X ÿ ھ JD/TIME + Ø. 8 3.0-8,0-٤ 10 23AP DATE DAY PROJECT & LEG BESTO? Ū ≡ 오. < <  $\leq$ < 8 FLUOR S/N æ D N 0 7 ¥ 7 7 7 PAR on Bridge ("Einsteins m-2s-1) 45190 TIME (GMT) 돐 Melissa ALK (MC) 00 <u>₹</u> DIC (MC) DRY BULB Tish <u>ئ</u> ೦ೆ 1HE97 4 ò15N Isotopes 7 WET BULB ć δ32Σι 46, gases 92 Trace PRESSURE Zoops Micro SEA STATE VISIBILITY Prod DIRN. 3220 N2/Ar Masha (kts) SPD. STATION DESIGNATION MAX, DEPTH = REMARKS CLOUD (amt) Radon D.Sholl TYPE WEATHER BOTTOM 3-02 Devol (m) 3-45 -+5 \-+\ 4-45 -45 57-2 たた STA. NAME/ID ₹

Notes on Surface Ice Conditions or proximity to ice edge VESSEL USCG Healy SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN SBE 9+ 23 22 21 <u>-</u>2 17 16 SEQ. FIRED DEPTH 20 19 <u>,</u> 4 13 12 5 CAST # œ 7 മ 10259 4 DESIRED 021 50 8 00 0,8 8 S, 8 50 20 0 28 Ō 66 MM 0 2 LATITUDE notes . ∑ ROSETTE 9 0 2 SALT DATA ON AT SURFACE AT DEPTH START DOWN CRUISE ID H10701 SAMPLE BOTTLE NUMBERS PAR S/N ナナ SLON LONGITUDE 02-Mordy 02 Temp S Z W JD/TIME <u>17</u> DAY AP 욷 PROJECT & LEG BESTO7 Š FLUOR S/N ᄍ DOM 0 ⋨ 7 -0 h 80 PAR on Bridge (µEinsteins m-2s-1) TIME (GMT) 돗 Melissa ALK (MC) DIC (MC) <u>K</u> DRY BULB Tish S DSDB I.D. 1HEO7  $\omega$ 615N Isotopes WET BULB 上 632Σι N gases Trace 9 PRESSURE Micro Zoops Prod SEA STATE VISIBILITY in paraaker Ray DIRN. 23 Masha N2/Ar 12 WIND SPD. STATION DESIGNATION < < REMARKS RATION/302 MAX. DEPTH = CLOUD (amt) D.Shidii Radon TYPE X  $\prec$ × 4 X 4 × ¥ × 1 WEATHER BOTTOM DEPTH 139 (m) 3-02 Devol Ž 3 1 8 STA. NAME/ID Э も

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SEC TEMP SN PRI COND SN Notes on Surface Ice Conditions or proximity to ice edge SBE 9+ SEC COND SN PRI TEMP SN PRESS SN 23 22 19 15 74 21 18 17 -6 11 FIRED DEPTH 14359 20 13 12 SEQ. 5 ဖ 00 S Φ DESIRED 1 B 00 8 to 8 0005 <u>س</u> ROSETTE notes 00 S 223 SALT DATA ON SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN 17624. PAR S/N STON 1296 1276 125 3051 ナガー 123 22 124 1314 1H9 02-Mordy 02 Temp 3 \_ 0 ≥ JD/TIME 1 0.7 3 Ω A P R 운. FLUOR S/N MOG 0 7 PAR on Bridge ("Einsteins m-2s-1) 1059-ALK (MC) DIC (MC) Tish 615N Isotopes X × × × ბ32Σι m 9 <u>၁</u>(§ gases Trace 5, Micro Zoops Prod 0 Masha N2/Ar MAX. DEPTH = REMARKS D.Sholl Radon Devoi 3-02 4 3 3215

USCG Healy

CRUISE ID H10701

PROJECT & LEG BEST07

DSDB I.D.

STATION DESIGNATION 95

CAST #

53,96 LATITUDE

LONGITUDE

DATE DAY

JD=

TIME (GMT) 퓼

DRY BULB

WET BULB

PRESSURE

SEA STATE VISIBILITY

CLOUD (amt)

1H3

OIRN.

TYPE WEATHER

BOTTOM DEPTH

STA. NAME/ID

(kts) WIND SPD.

Phol

<u>₹</u>

¥

<u>M</u>

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SEC COND SN PRI TEMP SN PRI COND SN SEC TEMP SN PRESS SN SBE 9+ 17 16 15 4 3 12 1 10 SEQ. DESIRED 1045953. USCG Healy ٥ CAST # 00 တ 4 S 100 0 0 53,80 LATITUDE notes ROSETTE \_0 SALT z 281 HEE SAMPLE BOTTLE NUMBERS CRUISE ID H10701 AT SURFACE AT DEPTH START DOWN DATA ON 17548. PAR S/N STUN 139 2 1378 1405 1388 5721 135-5 78 133 LONGITUDE 48,39 F650 02-Mordy 02 Temp 57 w 23 A JD/TIME DATE JD= 유 PROJECT & LEG BEST07 Š ס FLUOR S/N 70 DOM 0 7 PAR on Bridge (µEinsteins m-2s-1) TIME (GMT) 돗 ALK (MC) DIC (MC) 332-Melissa ĭ tr DRY BULB Tish ahour <u>دی</u> . DSDB 1.D. 1HE07 co δ15Ν | δ32Σι Isotopes WET BULB 3/hb F ᆔ gases Zoops Prod Trace ع۔ ~35 PRESSURE Micro SEA STATE VISIBILITY 01719 DIRN. N2/Ar Masha SPD. (kts) STATION DESIGNATION REMARKS MAX. DEPTH = 7 2 1 CLOUD (amt) Radon D.Sholl TYPE WEATHER BOTTOM DEPTH 3-02 Devol ω — STA. NAME/ID 7 3 1 2

Notes on Surface Ice Conditions or proximity to ice edge

heavy ice - created while

Notes on Surface Ice Conditions or proximity to ice edge PRI COND SN PRESS SN PRI TEMP SN SBE 9+ VESSEL USCG Healy 18 16 15 SEC COND SN SEC TEMP SN 17 SEQ. 4 13 12 FIRED DEPTH 5 ဖ CAST # œ თ 0559 DESIRED 1001 5 400 30 570 6 E 0 00 53 53,67 LATITUDE notes ROSETTE 4 5 SALT z 213 DATA ON SAMPLE BOTTLE NUMBERS START DOWN CRUISE ID AT SURFACE AT DEPTH 101 STUN 141 太大 1464 3441 1454 143 12,45 142 LONGITUDE 2 02-Mordy 02 Temp CHL. -~ 4 w 2 3 JD/TIME ais -1.8 DAY PROJECT & LEG BEST07 þ ➣ v 8 FLUOR S/N æ DOM 0 broken ⋨ 7 1636 PAR on Bridge (µEinsteins m-2s-1) 1623 TIME (GMT) ALK (MC) DIC (MC) Melissa <u>₹</u> 1 DRY BULB Tish S DSDB I.D. 1HE07 A 615N 1 1 6 WET BULB W 632∑t 00 9 3 gases Trace PRESSURE Micro Zoops SEA STATE VISIBILITY WIND DIRN. F N2/Ar Masha SPD. STATION DESIGNATION MAX. DEPTH = REMARKS CLOUD (amt) D.Sholf Radon TYPE WEATHER BOTTOM 3-02 Devol 124 Q STA. NAME/ID 3

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Notes on Surface Ice Conditions or proximity to ice edge PRI COND SN USCG Healy SEC TEMP SN PRI TEMP SN SBE 9+ 17 SEC COND SN PRESS SN 18 16 -5 4 SEQ. FIRED DEPTH 7 7 CAST # ဖ თ S N 2 DESIRED 2 80 8 5 050 60 5 ō 20 0 26 ₹ \ LATITUDE notes ROSETTE 7 \*215 SALT 1 2 5 2 t 1 N SAMPLE BOTTLE NUMBERS CRUISE ID AT SURFACE TIMES AT DEPTH START DOWN DATA ON PAR S/N \_ 86 STUN 4 98 かっ 2 02 R 2 2 ONGITUDE 00,7 159/19 "O.4 02-Mordy 02 Temp 56 w 2 JD/TIME 1 4 DATE لرہ َ DAY W 온 PROJECT & LEG BEST07 JD= ΑP < < < <u>K</u> FLUOR S/N æ DOM 0 7 PAR on Bridge (µEinsteins m-2s-1) 2202-1 TIME (GMT) 픘 ALK (MC) DIC (MC) Melissa ₹ DRY BULB Tish DSDB 1.D. 1HE07 2 815N Isotopes WET BULB δ32Σι Ħ \(\frac{9}{2}\) gases Trace 060 PRESSURE Zoops Prod Micro SEA STATE VISIBILITY WIND DIRN. 914 N2/Ar Masha (kts) SPD. STATION DESIGNATION MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol 2 8 STA. NAME/ID 3 9 0

Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN PRI COND SN <u>...</u> 17 16 ω. 12 = SEC TEMP SN PRI TEMP SN PRESS SN VESSEL USCG Healy 5 14 10 FIRED DEPTH 9 8 7 თ CAST # 4 0 DESIRED **b**C 2 3 00 8 5 SO 8 20 S 0  $\propto$ ₹ . LATITUDE notes ROSETTE 65 N 117323. SALT 97 SAMPLE BOTTLE NUMBERS AT SURFACE CRUISE ID AT DEPTH START DOWN DATA ON PAR S/N \_ STUN (07 500 8 06 104 (c) 103 62 2 LONGITUDE 120/201 088 02-Mordy 02 Temp 6 JD/TIME 4 w24AP DAY PROJECT & LEG BESTO7 유 7 1 1 ( 8 FLUOR S/N æ DOM 0 ⋨ 7 00 PAR on Bridge (µEinsteins m-2s-1) TIME (GMT) 픘 ALK (MC) DIC (MC) Melissa 4 <u>K</u> DRY BULB Tish DSDB I.D. 1HE07 S 615N Isotopes WET BULB ბ32∑ι Ĉ 10 027 gases Trace 2 PRESSURE Zoops Micro SEA STATE VISIBILITY Prod 0 DIRN. N2/Ar Masha STATION DESIGNATION WIND. MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol 40 80 STA. NAME/ID 3/2 00 3

Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN
FIRED DEPTH PRI TEMP SN SBE 9+ PRI COND SN SEC TEMP SN VESSEL USCG Healy 18 16 5 SEQ. PRESS SN 14 3 12 5 10989 CAST # 9 œ თ w DESIRED 69 60 E 05 30 20 0 Ø 45 LATITUDE notes ROSETTE 0 SALT z CRUISE ID H10701 SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN DATA ON 17248. PAR S/N STON N LONGITUDE 2 9 00 212/200 telyn 02-Mordy 02 Temp 6 777 JD/TIME 七十二 \* 24× PROJECT & LEG BEST07 유 < 70 8 FLUOR S/N R DOM 0 ¥ 7 も PAR on Bridge (µEinsteins m-2s-1) TIME (GMT) 돐 ALK (MC) DIC (MC) Melissa 0 Q DRY BULB Tish DSDB I.D. 1HE07 0 Isotopes \$15N WET BULB δ32Σι II gases Trace 120 90 (g PRESSURE Micro Zoops SEA STATE X VISIBILITY Prod Ray ナイの WIND DIRN. N2/Ar Masha (kts) SPD. STATION DESIGNATION MAX. DEPTH = REMARKS CLOUD (amt) Radon D.Shott TYPE WEATHER BOTTOM DEPTH 3-02 Devol 69 STA. NAME/ID (0) 3

Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN
FIRED DEPTH SBE 9+ PRI COND SN SEC TEMP SN PRI TEMP SN VESSEL USCG Healy 16 PRESS SN SEQ. 15 4 13 12 = 5 CAST # ဖ œ ത υı 4 ω N 0 DESIRED DEG MIN रे 80 8 50 20 ō O(, LATITUDE notes ROSETTE 09117214 ×2.00 SALT H10701 SAMPLE BOTTLE NUMBERS AT DEPTH START DOWN TIMES AT SURFACE DATA ON PAR S/N STUN õ  $\propto$ 十 LONGITUDE T 6 3 ټ 15/152 -1.8 02-Mordy 02 Temp かれた JD/TIME N T w 2 4 A P DATE JD= 8 유 PROJECT & LEG 8EST07 7 1 8 FLUOR S/N Þ DOM 0 ⋨ 7 Scattered pack PAR on Bridge (µEinsteins m-2s-1) 063 퓻 TIME (GMT) ALK (MC) DIC (MC) Melissa X Z \_ DRY BULB Tish DSDB I.D. 1HE07 O 615N <  $\subset$ Isotopes <WET BULB (0) П **δ32Σι**  $\overline{\phantom{a}}$ < 7.45 gases Zoops Prod Trace 0 PRESSURE Micro SEA STATE VISIBILITY WIND DIRN. N2/Ar Masha (kts) SPD. STATION DESIGNATION P MAX, DEPTH = NO FITOS CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devo <del>ا</del> 000 STA. NAME/ID 800X 02 3

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Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN
FIRED DEPTH PRI COND SN PRI TEMP SN VESSEL USCG Healy <u>\_</u>8 SEC TEMP SN 17 16 15 12 PRESS SN 4 3 1 0 CONSC CAST # ဖ ¢ 7 6 S 4 11125954. DESIREO 40 50 63 ()s 101 00 54.22 LATITUDE notes ROSETTE N 6 1 80 SALT 177 SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN DATA ON CRUISE ID H10701 TIMES PAR S/N 325 STUIN 754 23 4  $\overline{n}$ 26 274 00 LONGITUDE 4 M4.00 02-Mordy 02 Temp 8-1-1-11 928 0 JD/TIME 11,6 ٤ 24 A P DATE JD= DAY 웃 PROJECT & LEG BESTO7 8 FLUOR S/N æ DOM 0 퐀 7 PAR on Bridge (μEinsteins m-2s-1) = 0 H -1415 TIME (GMT) 픘 ALK (MC) Melissa DIC (MC) DRY BULB <u>ن</u> <u>00</u> Tish DSDB I.D. 1HE07 615N Isotopes K K WET BULB 上 δ32Σι gases Zoops 0 Trace PRESSURE Micro SEA STATE VISIBILITY Prod DIRN. 디 N2/Ar Masha STATION DESIGNATION 104 SPD. MAX. DEPTH = REMARKS CLOUD (amt) Radon D.Sholf TYPE WEATHER BOTTOM 3-02 Devol 72 STA, NAME/ID MUDIC 3

Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN
FIRED DEPTH PRESS SN SBE 9+ PRI COND SN VESSEL USCG Healy 16 SEC TEMP SN PRI TEMP SN 7 15 14 -3 12 = 10 SEQ. 11135956 CAST # Q œ Φ v 4 w DESIRED 50 9 20 30 0 O OC. LATITUDE ROSETTE notes  $\overline{\mathcal{O}}$ z SALT SAMPLE BOTTLE NUMBERS START DOWN CRUISE ID AT SURFACE AT DEPTH DATA ON PAR S/N 7020.99 W24AP NUTS 38 38 LONGITUDE 235 02-Mordy 02 Temp 1 1 JD/TIME 1.00 メブ 유 PROJECT & LEG BEST07 8 FLUOR S/N æ DOM 0 퐀 7 N PAR on Bridge (µEinsteins m-2s-1) = TIME (GMT) 픘 ALK (MC) Melissa 30 Š DIC (MC) DRY BULB Tish -. . DSDB I.D. 1HE07 δ15N δ32Σι Isotopes WET BULB (0) 2450 gases Trace Micro <u>2</u> PRESSURE Zoops Prod SEA STATE VISIBILITY 420 WIND DIRN. N2/Ar Masha SPD. STATION DESIGNATION REMARKS MAX. DEPTH = CLOUD (amt) Radon D.Shoil TYPE WEATHER BOTTOM DEPTH 3-02 Devol رو S + STA. NAME/ID 3

VESSEL USCG Healy PRI COND SN SEC TEMP SN PRI TEMP SN SEC COND SN PRESS SN Notes on Surface Ice Conditions or proximity to ice edge FIRED DEPTH CAST # 14 16 -5 12 3 10 9 ω œ 6 S DESIRED 七九 х 0 ó <u>چ</u> 20 30 0 O O 54 LATITUDE ROSETTE notes <u>₹</u> 0 SALT といり z CRUISE ID H10701 AT DEPTH DATA ON AT SURFACE START DOWN 1694 SAMPLE BOTTLE NUMBERS PAR S/N 9.4 4 t NUTS 4 5 LONGITUDE 8 5t1, Oxygen JD/TIME 4,7,4 02 Temp ₩ DAY PROJECT & LEG BESTO7 þ 욷 < š P FLUOR S/N ᅍ DOM 0 쏬 < 7 PAR on Bridge (µEinsteins m-2s-1) 3 돐 TIME (GMT) Prod æ 25 <u>₹</u> ALK (MC) Melissa DRY BULB ರೆ DSDB I.D. 1HE07 DIC (MC) WET BULB Tish ೆ 40 NST > < < < <u>Z</u> PRESSURE SEA STATE Sisotopes 643 36 VISIBILITY DIRN. (deg) NOG, J **103** (kts) STATION DESIGNATION SPD. REMARKS MAX. DEPTH = CLOUD (amt) TYPE WEATHER Comment or Others BOTTOM DEPTH ナナ STA. NAME/ID ∃ 96

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# sensor 1 = Frequency 1
# sensor 2 = Frequency 2
# sensor 3 = Frequency 3
# sensor 4 = Frequency 4
# sensor 5 = Extrn1 Volt
# sensor 6 = Extrn1 Volt
# sensor 7 = Extrn1 Volt
# sensor 8 = Extrn1 Volt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ** Station:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          * Store Lat/Lon Data = Append to Every Scan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ** Cruise: H10701
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ** Ship: USCG Healy
                                                                                                                                                                                                                                                                             sensor 8 = Extrnl Volt 6 transmissometer, primary, CST-390DR, 27-Feb-07 sensor 9 = Extrnl Volt 7 irradiance (PAR), primary, QSP2300-70115, 09-Jan-07 sensor 10 = Extrnl 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
                                                                                                                                                                                                                                                                                                                                                                                                                                            interval = seconds: 0.0416667
start_time = Apr 25 2007 03:29:26
                                                                                                                                                                                                                                                                                                                                                                                                                                  sensor 0 = Frequency
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NMEA UTC (Time) = Apr 25 2007 03:29:25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NMEA Longitude = 169 48.79 W
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                                                                                                                                                                                                                                               bottlesum_in = c:\ctd\114.ros c:\ctd\114.CON c:\ctd\114.BL
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bottlesum_date = Apr 25 2007 03:38:02, 5.37m
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                                                                                                                                                                                                                                                                                                                                                           altimeter
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 47.440
0.030
40.259
0.023
30.543
30.543
0.017
20.218
0.022
20.276
0.022
7.816
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7.816
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0.0004
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-1.6659
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-1.6528
0.0019
-1.6352
0.0022
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-1.6238
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-1.6061
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-1.5710
0.0031
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0.001667
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31.1717
0.0003
31.1716
0.0002
31.1686
0.0007
31.1648
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31.1617
0.0003
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0.0002
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25.0602
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25.0575
0.0003
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0.0013
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                                                          0.092
351.850
0.080
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-1.6664
0.0002
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0.0022
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0.0004
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-1.5710
0.0031
-1.5710
0.0031
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0.0003
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1.5696 17.2904 0.9907 15.1026

1436.61 0.01

1.4344 10.2613 0.8298 10.1434 0.6320

(avg) (sdev) (avg) (sdev)

1436.49 1436.60

(sdev) (avg) (sdev)

0.01

1436.52 0.01

1436.63

(avg) (sdev (avg) (avg)

0.00

0.00

1.2064 12.7351 0.2101 12.4949 0.6809 14.8346

(sdev) (avg) (sdev) (avg)

0.00 1436.79

13.2882 13.4456 0.7802

F1CUVA

Sea-Bird SBE 9 Data File:
FileName = C:\CTD\114.hex

Temperature SN = 2841

Software Version Seasave V 7.12

SEC COND SN
FIRED DEPTH VESSEL USCG Healy PRI TEMP SN PRESS SN SBE 9+ PRI COND SN SEC TEMP SN <u>-</u> 23 22 21 20 19 17 16 <u>₹</u> 14 13 SEQ. 12 28 CAST # 5 ی Φ 7 တ Ç, DESIRED 2525 土 20 30 O 20 O LATITUDE ROSETTE notes 5 1 \*211 SALT Z START DOWN AT DEPTH DATA ON CRUISE ID SAMPLE BOTTLE NUMBERS AT SURFACE BEG 2 STUN 42 25 LONGITUDE 北京 02-Mordy 02 Temp <u>₹</u> 2 JD/TIME 7 × √ ∧ DATE DAY PROJECT & LEG BEST07 <u>\_</u> 운. < < 1 7 < MO Ъ FLUOR S/N æ POM 0 ⋨ 7 0 PAR on Bridge ("Einsteins m-2s-1) TIME (GMT) 픘 Melissa ALK (MC) DIC (MC) S <u>S</u> DRY BULB Tish <u>N</u> ೦ DSDB I.D. 1HE07 4 615N Isotopes WET BULB ć δ32Σι Trace gases (mb) PRESSURE Zoops Micro SEA STATE VISIBILITY Prod 41470 WIND DIRN. N2/Ar Masha (kts) WIND SPD. STATION DESIGNATION MAX. DEPTH = REMARKS CLOUD (amt) Radon D.Shoil TYPE 11 105 WEATHER BOTTOM DEPTH 3-02 Devol € S STA. NAME/ID 3 40 3 D S

Notes on Surface Ice Conditions or proximity to ice edge VESSEL USCG Healy PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN SBE 9+ SEC COND SN 22 SEQ. 21 20 19 200 17 14 <u>...</u> 12 10 FIRED DEPTH CAST # 16 -5 1 7 9 ω 0 S 4 ω 18588 I DESIRED DEG 25 20 S 0 8 LATITUDE notes ROSETTE O z 237 SALT CRUISE ID SAMPLE BOTTLE NUMBERS START DOWN DATA ON AT SURFACE AT DEPTH 95891 PAR S/N STUN 35 35 17.7 LONGITUDE 4 02-Mordy 02 Temp 233 JD/TIME 5.7-117 ٤ 25 A P R 0 7 0 750 DATE PROJECT & LEG BEST07 오는. JD= 8 FLUOR S/N MOM ¥ PAR on Bridge ("Einsteins m-2s-1) TIME (GMT) 풌 essiləMi ALK (MC) <u>≤</u> DIC (MC) DRY BULB Tish IDSDB I.D. 1HE07 S 915N Isotopes WET BULB δ32Σι (°C gases Trace (amb) PRESSURE Zoops Micro SEA STATE VISIBILITY Prod Ray WIND DIRN. N2/Ar Masha SPD. STATION DESIGNATION (kts) CLOUD (amt) MAX. DEPTH = REMARKS D.Sholl Radon TYPE WEATHER BOTTOM DEPTH Devol 3-02  $\overline{\mathbb{E}}$ STA. NAME/ID 200 3

VESSEL USCG Healy SBE 9+ Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN SEQ. FIRED DEPTH 16 15 1 2054. CAST # 7 13 12 |= 5 ယ္ თ œ DESIRED 0 0 1 LATITUDE notes ROSETTE 00 2, 2 63° SALT CRUISE ID H10701 SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN DATA ON 6759. PAR S/N >594 NUTS 200 £29, LONGITUDE Oxygen 205 JD/TIME ( w 25 A P R O シエ 02 Temp PROJECT & LEG BEST07 유 FLUOR S/N MOG 놨 7 1056-PAR on Bridge (μEinsteins m-2s-1) = TIME (GMT) Prod Ray ĭ Melissa ALK (MC) DRY BULB DSDB I.D. 1HE07 . 5 DIC (MC) WET BULB Tish fluor volts <u>N</u> 5 PRESSURE SEA STATE P32 VISIBILITY **isotopes** DIRN. NO3 STATION DESIGNATION SPD. 00 N CLOUD (amt) MAX. DEPTH = REMARKS TYPE centra casts Comment or Others WEATHER BOTTOM DEPTH STA. NAME/ID 3

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VESSEL USCG Healy SBE 9+ PRI COND SN SEC TEMP SN PRI TEMP SN Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN PRESS SN SEQ. FIRED DEPTH 0EG MIN 15 CAST # 14 10 16 13 = 17 12 φ œ 7 മ S DESIRED 4 30 20 0 ø 00 44,42 LATITUDE notes ROSETTE z SALT CRUISE ID AT DEPTH START DOWN SAMPLE BOTTLE NUMBERS AT SURFACE DATA ON 21.00th9 PAR S/N NUTS 4-57 678 343 635 377 LONGITUDE 48,21 197 Oxygen 0007 JD/TIME 02 Temp w 25 APRO -1.2 -1.6 DATE DAY PROJECT & LEG BEST07 ģ 유 8 FLUOR S/N <u>B</u>08 쏬 7 PAR on Bridge (µEinsteins m-2s-1) = TIME (GMT) 1353 돐 1000 0000 Prod Ray <u>X</u> ALK (MC) Melissa DRY BULB DSDB I.D. 1HE07 クーカ DIC (MC) 900% WET BULB Tish CC TRA 890 <u>2</u> PRESSURE SEA STATE P32 VISIBILITY isotopes DIRN. N03 SPD. STATION DESIGNATION 0 The Chun pump 51 uck CLOUD (amt) MAX. DEPTH = REMARKS TYPE Comment or Others WEATHER BOTTOM DEPTH 80 <u>00</u> 14 STA. NAME/ID 2001 3

Temp bl.p our way down at 12m

Notes on Surface Ice Conditions or proximity to ice edge SBE 9+ VESSEL USCG Healy PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN 23 22 19 SEC COND SN 21 20 2 17 16 14 SEQ. FIRED 3 . 25 5 CAST # 12 9 7 ω 6 ٥ DESIRED DEPTH 9 80 723 2 0 00 00 6600000 45 55 80 (V) \$3.16 LATITUDE ROSETTE notes ф3 z SALT TIMES DATA ON CRUISE ID H10701 SAMPLE BOTTLE NUMBERS AT DEPTH START DOWN AT SURFACE PAR S/N 4 7716 22£ かかり STUN 139 734 734 754 >12 7696 796 (U) LONGITUDE 53,34 02-Mordy 72 1 JD/TIME -1:5 1.5 02 Temp ξ 25 DAY PROJECT & LEG BESTO7 A P R <u>\_</u>Q 운 8 FLUOR S/N 9 0 퐀 7 PAR on Bridge ("Einsteins m-2s-1) <u>-</u> TIME (GMT) 픘 1225 ALK (MC) ری عہ ا ₹ DIC (MC) DRY BULB Tish Ð DSDB I.D. 1HE07 6 WG ò15N ş Isotopes WET BULB 0 c 632Σι 0 gases Trace و PRESSURE Micro Zoops SEA STATE VISIBILITY Prod ф 3 2 & A DIRN. Masha N2/Ar (kts) STATION DESIGNATION SPD. MAX. DEPTH = REMARKS Prod Cast CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol 13 な STA, NAME/ID 3 NOD

Notes on Surface Ice Conditions or proximity to ice edge VESSEL USCG Healy PRI COND SN PRI TEMP SN SBE 9+ SEC TEMP SN PRESS SN SEC COND SN 22 SEQ. 21 20 19 ---16 25 74 13 \_ FIRED DEPTH 12 15 CONSC CAST # ထ ø 7 ത 4 w 205849 DESIRED 3 S との O 00 LATITUDE notes ROSETTE 9 25 z SALT DATA ON AT DEPTH CRUISE ID H10701 START DOWN SAMPLE BOTTLE NUMBERS AT SURFACE 16809 PAR S/N STON 200-82 23 3 B LONGITUDE \*032 02-Mordy 02 Temp 2 5 JD/TIME メーシ w2SAPR DATE DAY PROJECT & LEG BEST07 \_Qſ 오는. 1 M FLUOR S/N DOM 0 퐀 7 2014 PAR on Bridge ("Einsteins m-2s-1) TIME (GMT) 茮 Melissa ALK (MC) <u>₹</u> DIC (MC) DRY BULB 0 Tish DSDB I.D. 1HE07 0 ò15N Isotopes WET BULB (°C) **δ32Σι** 862 2 gases Тгасе (mb) PRESSURE Zoops Micro SEA STATE VISIBILITY Prod 950 Ray DIRN. Masha ~ N2/Ar (kts) WIND SPD. STATION DESIGNATION REMARKS TITE MAX. DEPTH = 40 CLOUD (amt) Radon D.Sholl TYPE WEATHER BOTTOM DEPTH 3-02 Devol STA. NAME/ID 3 S

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Notes on Surface Ice Conditions or proximity to ice edge PRESS SN SBE 9+ VESSEL USCG Healy SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN 21 19 23 22 16 2. 74 SEQ. FIRED DEPTH 20 28 17 3 7 CAST # 0 ထ o, 7 DESIRED 2 40 8 0 0 9 5 2 8 LATITUDE ROSETTE notes 72 z SALT DATA ON SAMPLE BOTTLE NUMBERS AT DEPTH START DOWN CRUISE ID H10701 PAR S/N AT SURFACE TIMES 0 (16826 NUTS 87 22 3 23 LONGITUDE 02-Mordy 02 Temp 4 6 JD/TIME 1 ₹ DATE 25 A P DAY PROJECT & LEG BESTO7 JD= 오. ₹ 7 FLUOR S/N ᄍ MOG 0 ¥ 7 ٢ PAR on Bridge ("Einsteins m-2s-1) TIME (GMT) 돐 Melissa 3 ALK (MC) 0 ₹ Ž DIC (MC) DRY BULB 到吃 0 DSDB I.D. 1HE07 6 ò15N Isotopes <  $\overline{\zeta}$  $\subset$  $\subset$ C  $\overline{\phantom{a}}$ WET BULB (°C) **δ32Σ**ι н gases Trace 22 PRESSURE Zoops 00 Micro SEA STATE VISIBILITY Prod Ray WIND DIRN. Masha N2/Ar WIND SPD. STATION DESIGNATION MAX. DEPTH = REMARKS CLOUD (amt) Radon D.Sholl TYPE WEATHER BOTTOM DEPTH 3-02 Devol 囝 n STA. NAME/ID 3 = 13

Notes on Surface Ice Conditions or proximity to ice edge VESSEL USCG Healy PRI COND SN PRI TEMP SN SBE 9+ SEC COND SN SEC TEMP SN PRESS SN 22 SEQ. 21 20 19 200 17 16 5 14 13 5 FIRED DEPTH 12 CAST # ဖ 7 ω თ S 4 ω 22 DESIRED 40 20 20 30 50 ō 0 0 R LATITUDE notes ROSETTE 5 \*267 z SALT DATA ON SAMPLE BOTTLE NUMBERS CRUISE ID H10701 AT DEPTH START DOWN AT SURFACE TIMES 16842 STON 20 38 80 4 کر اس 92 2 4 LONGITUDE × 02-Mordy 02 Temp 2 150 02w26APR07 JD/TIME 110 4-1-4 DATE DAY PROJECT & LEG BEST07 운 < < 8 FLUOR S/N DOM 袪 0237-PAR on Bridge ("Einsteins m-2s-1) TIME (GMT) 픘 Melissa ALK (MC) 700 <u>₹</u> DIC (MC) DRY BULB Tish 0 DSDB I.D. 1HE07 S ò15N Isotopes × WET BULB × **632Σ**ι Ĉ 11 gases <u>م</u> Trace PRESSURE Micro Zoops Prod SEA STATE X VISIBILITY Ray 7 200 DIRN. N2/Ar Masha SPD. STATION DESIGNATION (kts) REMARKS MAX, DEPTH = CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol 62 3 66 ナニ STA. NAME/ID 3 NPIOS

SEC TEMP SN PRI COND SN Notes on Surface Ice Conditions or proximity to ice edge PRESS SN VESSEL USCG Healy PRI TEMP SN SBE 9+ SEQ. SEC COND SN 22 21 20 19 -8 <u>1</u>6 7.5 4 13 17 11 5 FIRED DEPTH CAST # 12 ဖ ф 7 თ ഗ 4 ω 235808. DESIRED 20 40 20 0 O  $\infty$ LATITUDE notes ROSETTE 0 \*238 z SALT AT DEPTH DATA ON CRUISE ID H10701 SAMPLE BOTTLE NUMBERS START DOWN AT SURFACE PAR S/N 16858.04 w 26 A P R 0 7 STUN 100 Ź, 901 22 207 0 8 102 LONGITUDE 220 02-Mordy 02 Temp JD/TIME DATE JD= DAY PROJECT & LEG BESTO7 운. Š FLUOR S/N MOOM 0428-PAR on Bridge ("Einsteins m-2s-1) TIME (GMT) 풄 ALK (MC) DIC (MC) Melissa 20 DRY BULB Tish DSDB I.D. 1HE07 N516 Isotopes WET BULB Ĝ **λ32Σι** 952 gases Trace PRESSURE Micro Zoops SEA STATE VISIBILITY Prod Ray 00216 WIND DIRN. N2/Ar Masha STATION DESIGNATION (kts) WIND SPD. MAX. DEPTH = REMARKS CLOUD (amt) Radon D.Sholl TYPE WEATHER BOTTOM DEPTH 3-02 Devol 06 STA. NAME/ID  $\frac{1}{2}$ 3 2700

SEC TEMP SN PRI COND SN SBE 9+ VESSEL USCG Healy PRI TEMP SN PRESS SN 19 SEC COND SN 23 22 21 20 8 3.5 7 12 1 SEQ. FIRED DEPTH 17 16 13 1124515H CAST # 0 Θ ω V o u 4. N DESIRED 40 63 2 00 25 8 20 25 40 O <u></u> 0 200 LATITUDE \* ROSKI JE notes 1165, 59/3 5910 5912 5914 5900 9 5908 28 <u>S</u> SALT z AT SURFACE CRUISE ID SAMPLE BOTTLE NUMBERS AT DEPTH START DOWN DATA ON 1 6 9 STUN 16 5 0 000 (07 5 7 7 ONGITUDE 880\* 4004 22 02-Mordy 02 Temp Spl Ò -1.5 -1.6 1 1 ₹ 126 A P 1,6 DATE JD= DAY PROJECT & LEG BEST07 운 \$ FLUOR S/N R DOM 0 퐀 ~ サルサー PAR on Bridge ("Einsteins m-2s-1) TIME (GMT) Melissa ALK (MC) DIC (MC) 0 DRY BULB Tish (°C) DSDB I.D. 1HE07  $\infty$ ò15N Isotopes WET BULB **δ32Σι** Ĝ gases Trace (amb) PRESSURE Zoops Micro SEA STATE VISIBILITY Prod 51845 WIND DIRN. N2/Ar Masha STATION DESIGNATION SPD. (kts) MAX. DEPTH = REMARKS CLOUD (amt) Radon D.Sholl TYPE WEATHER BOTTOM DEPTH 3-02 Devol 3 66 T STA. NAME/ID 3 116 2 PO 7

Notes on Surface Ice Conditions or proximity to ice edge

Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN
FIRED DEPTH VESSEL USCG Healy PRESS SN 20/2 SEC TEMP SN PRI TEMP SN PRI COND SN 23 22 7 5 12 24 21 20 19 <u>-1</u> 16 14 17 13 CAST # 5 و 00 Φ 255740. 20 S DESIRED 0 53 43 00 Ho.90 LATITUDE notes ROSETTE 82 1 6930. SALT S11/hh2 AT DEPTH CRUISE ID H10701 START DOWN DATA ON SAMPLE BOTTLE NUMBERS AT SURFACE STUN 120 St. 122 124 15 1 LONGITUDE S 30.17 02-Mordy 02 Temp 1237 -1.5 14 5000 JD/TIME 2000 1.2 2 6 A P DATE JD= 3 PROJECT & LEG BEST07 운 <u>~</u> MO Z FLUOR S/N DOM DENSER 0 ⋨ 7 0933 PAR on Bridge ("Einsteins m-2s-1) 497.5 TIME (GMT) TR MIN Melissa ALK (MC) h DIC (MC) DRY BULB Tish ී DSDB I.D. 1 00 ζ 015N Isotopes WET BULB 13 12 O ò32Σι 0 0 200 gases Trace 10 PRESSURE Zoops Micro ltoch SEA STATE ) VISIBILITY Prod 346 M 24 DIRN. nowww N2/Ar Masha STATION DESIGNATION 17 (kts) WIND SPD. Down war <u>ر</u> Sugare MAX. DEPTH = REMARKS CLOUD (amt) Radon D.Sholl TYPE WEATHER BOTTOM DEPTH 3-02 Devol 3 -0 Droce STA. NAME/ID 3 NPA

SBE 9+ VESSEL USCG Healy SEC TEMP SN Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN PRI COND SN PRI TEMP SN PRESS SN SEQ. FIRED DEPTH 16 5 4 13 CAST # 12 5 ထ ر. 4 æ თ 265726. DESIRED 25 30 1 るり 57 0 00 63,72 LATITUDE notes ROSETTE 8 1 N 16 9 H C . 250 SALT CRUISE ID H10701 START DOWN SAMPLE BOTTLE NUMBERS AT DEPTH DATA ON TIMES AT SURFACE PAR S/N NUTS 1255 128 X 129 121 126 3 LONGITUDE 86,3H 152 + 73C O ON Oxygen 79 40 W 26 A P R O JD/TIME 11/2 ハニ 02 Temp 4.6 ンジ DATE JD= DAY PROJECT & LEG BEST07 운 7 8 FLUOR S/N DOM 7 PAR on Bridge (µEinsteins m-2s-1) = 1281 TIME (GMT) 130 Prod Ray. <u>₹</u> ALK (MC) Melissa DRY BULB . DSDB I.D. 1HEO7 DIC (MC) 1 WET BULB 25% Tish 2.697 N1 S PRESSURE SEA STATE VISIBILITY P32 Isotopes DIRN. N03 STATION DESIGNATION 118 SPO. leg der P x g MAX. DEPTH = CLOUD (amt) REMARKS TYPE Comment or Others WEATHER BOTTOM DEPTH \$ 30x 255 STA. NAME/ID 3

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VESSEL USCG Healy SBE 9+ Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN SEQ. FIRED DEPTH 1275658 6 15 12 5 CAST # 14 Ξ 17 13 9 œ 6 DESIRED 700 S) 3 S 8 0 00 0 58.30 LATITUDE ROSETTE notes 3 0 2 256 SALT CRUISE ID H10701 SAMPLE BOTTLE NUMBERS START DOWN AT SURFACE AT DEPTH DATA ON 100 MIN NUTS 13# F 131 P 135 \$ 132 f 138 1334 124 LONGITUDE 17,10 10 Oxygen 210 //43 48 149 144 JD/TIME 02 Тетр w 26 A P R 1/ 4.2 -10 -1.1 DAY PROJECT & LEG BESTO7 þ 온 증 FLUOR S/N DOM 0 ⋨ 7 PAR on Bridge (μEinsteins m-2s-1) = 1631 五 TIME (GMT) 642-Prod Ray <u>X</u> ALK (MC) Melissa DRY BULB DSDB I.D. 1HE07 0 00 DIC (MC) WET BULB Tish 9 Z15 PRESSURE SEA STATE P32 VISIBILITY isotopes <u>ა</u> ც WIND DIRN. NO3 10 SPD. STATION DESIGNATION 1(9) MAX. DEPTH = CLOUD (amt) REMARKS TYPE Comment or Others WEATHER BOTTOM DEPTH 4 STA. NAME/ID 3

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VESSEL USCG Healy	CRUISE ID PRO	PROJECT & LEG BEST07	1HE07	S	STATION DESIGNATION / 20
					D (amt)
CAST # LATITUDE	LONGITUDE DATE JD=	TIME (GMT)	DRY BULB WET BULB	PRES SEA VISIE	TYPE
DEG	DAY	MO ΥR		(mb) * * (deg)	* * (m)
6 4 3 . 7	0 3 2 . 1 4 W	P R 0 7 2 0 1 0	-   -   -   -   -   -   -   -   -   -	3 4 4	
SBE 9+	TIMES JD/TIME				REMARKS + CI
PRESS SN	DATA ON	PAR on Bridge	PAR on Bridge (μEinsteins m-2s-1) =		Just talkaing in
PRI TEMP SN	START DOWN				Stetion
SEC TEMP SN	AT DEPTH				
PRI COND SN	AT SURFACE				MAX. DEPTH = 1 ( ) 2 m
	PAR S/N	FLUOR S/N			
FIRED DEPTH ROSETTE	SAMPLE BOTTLE NUMBERS	Ray	Melissa Tish	Lisotopes	Comment or Others
SEQ. DESIRED notes	SALT NUTS Oxygen O2 Temp CHL	DOM Prod	ALK (MC) DIC (MC)	N15 - 1832- NO3	
1 /02	6:1+ 680, 651	7			
2 90					LARGE OFFSET
3 80	140 1029 1,7	<	<		۱ ک
4 70					CA I
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Notes on Surface Ice Cond	Ice Conditions or proximity to ice edge				

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Notes on Surface Ice Conditions or proximity to ice edge SEQ. FIRED DEPTH -5 14 5 16 13 12 = ဖ හ တ DESIRED 00 60 87 03 3 ð 3 40 0 90 notes ROSETTE SALT 262 SAMPLE BOTTLE NUMBERS STUN 148 147 500 2 U/1 −6 5 52 So 8 Oxygen 50 118 27 02 Temp 光点 V+25 00 오 MOD Prod Ray ALK (MC) Melissa DIC (MC) 1 Tish <u>N</u> P32 Isotopes NO3 SETTENC. 102 Comment or Others 15th SIE TRACKING 43/

SBE 9+

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REMARKS

PAR on Bridge ( $\mu$ Einsteins m-2s-1) =

0 20

MAX. DEPTH =

3

JD/TIME 00

DATA ON

AT DEPTH START DOWN

AT SURFACE PAR S/N\_

C FLUOR S/N

PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN

SEC COND SN

VESSEL USCG Healy

CRUISE ID H10701

PROJECT & LEG BEST07

DSDB I.D. 1HE07

STATION DESIGNATION

21

CAST #

LATITUDE

LONGITUDE

DATE DAY

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TIME (GMT)

DRY BULB ್ರೆ

WET BULB

PRESSURE

SEA STATE

VISIBILITY

DIRN.

SPD.

TYPE

BOTTOM DEPTH

STA. NAME/ID

WEATHER

CLOUD (amt)

G.

X Z

MO p

Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN FIRED DEP VESSEL USCG Healy PRI COND SN PRI TEMP SN SBE 9+ SEC TEMP SN SEQ. PRESS SN 23 20 19 -8 17 14 22 27 16 3 <u>-</u>3 CAST # 12 \_ 5 9 ထ V 6 S 4 ω 3056 DEPTH DESIRED かん 6 10 0.3 125 E 00 26 67 8 30 B 3 å 0 9 0 0 LATITUDE ROSETTE notes S N 26 SALT DATA ON CRUISE ID H10701 SAMPLE BOTTLE NUMBERS AT DEPTH START DOWN PAR S/N AT SURFACE 17103 00 407 91 95 403 406 406 8 902 80 P 10 b STUN 202 LONGITUDE \$236 35 02-Mordy 02 Temp 52 2 JD/TIME w 27 A P R O 3.6 S DATE JD= X PROJECT & LEG BEST07 운 7 ₹ FLUOR S/N DOM 7 PAR on Bridge ("Einsteins m-2s-1) 0-4010 풌 TIME (GMT) ALK (MC) DIC (MC) <u>₹</u> 0 DRY BULB Tish DSDB I.D. جو ò15N Isotopes WET BULB ී **δ32Σ**ι 力なれ Trace 0 gases PRESSURE Micro Zoops SEA STATE VISIBILITY Prod Ray 2 2 8 DIRN. N2/Ar Masha WIND SPD. STATION DESIGNATION (kts) REMARKS CLOUD (amt) MAX, DEPTH = D.Sholl Radon TYPE ٦ 1 WEATHER BOTTOM DEPTH 3-02 Devol 252 7 STA, NAME/ID 3 DIN JON とな

CI/CZ NOT TRACKING

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Notes o	24	23	22	21	20	19	18	17	16	3.5	14	13	12	17	10	9	œ	7	တ	ν	4	ω	2	_	SEQ.	FIRED	SEC COND SN	PRI COND SN	SEC TEMP SN	PRESS SN	SBE 9+	113	-	CAST #	CONSC		VESSEL USCG Healy	
Notes on Surface Ice Conditions or proximity to ice edge	7	O.	ō	Q	12/	20	20	rtr.	53/	205	201	75V	1001	1001	200 1	2501	350	5000	7500	100:01	15000	2000	2500	1700	DESIRED	DEPTH	NS (	NS	SN SN		I	156	DEG				ák	
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nditions														s wein				İ							SALT	SA		A.	AT AT	DA	TIMES	) S N /			<u>-</u>		표 유	
or proxin	-	Y P/A		かあ×	£17X		113	€15	FIA	4.8	£13	4,7	1/- <del>3</del>	1 510	49	27	ز	28	X 5	カメ	رب در	72		7	NUTS	SAMPLE BOTTLE	BAR S/N	AT SURFACE	AT DEPTH	DATA ON	IES	7/2	DEG	LO			CRUISE ID	
nity to ic	< TO	. P.	1,4%	-	THICK		1147	X /::	1211		1637	1037	1772	1/41	5/0	1002	120	V 702	4000	1 2 3 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1.059	وادر	,	1190	02-Mordy	'LE NUMBERS						0 . 4	N N	LONGITUDE				
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											•					,					_				ALK (MC)	Melissa	160			PAR on Bridge ("Einsteins m-2s-1)		062	HR MIN	TIME (GMT)				S C
	Se.	5				-		,	<.	,			X	,		X		×	Х	۶	*	×		<u>~</u>	C) DIC (MC)	Tish	101			ge (µEinstein		5-11	(°C)	T) DRY BULB			- 1	arie
	-					_															:			_	) ( 815N	_				s m-2s-1)		-0	0	-			DSDB I.D.	A
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-			wi.																						gases Zoops	Trace Micro						70	*	ļ	SSURE		l_	_
				<u>.</u>																						Ray						50	* (deg)	VISI DRN.	BILITY	_	-	100/CM
	1																				!				N2/Ar	Masha					L	22 5	(kts)	SPD.	<u> </u>		_	_
																									Radon	D.Sholf		MAX DEPTH =			REMARKS		*	TYP WE	THER	nt)	STATION DESIGNATION	
																									3-02	Devol	9	U				28572	(m)	DEPTH	BOTTOM		NOIT	
																												A 300				2		STA. NAME/ID			/2	
																																51		Æ/ID	<del></del>		~	

Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN 17 SEQ. 15 FIRED DEPTH 9 7.4 13 12 1 13 ဖ œ ത, 2256 03 DESIRED 40 75 92 00 S 0 32.05116957. notes ROSETTE 269 SALT SAMPLE BOTTLE NUMBERS START DOWN AT SURFACE AT DEPTH DATA ON PAR S/N 73 % NUTS ナセマ 326 J 52 7 42 22 なよ 4 Oxygen 734 カモし 651 75 44 W 2 7 A P R 0 7 JD/TIME <u>۵</u> 02 Temp 6. DAY 운 FLUOR S/N DOM ¥ PAR on Bridge ( $\mu$ Einsteins m-2s-1) = -5 2 7 Prod Ray 2 ALK (MC) Melissa 0 DIC (MC) <u>ज</u> Tish. N1 5 0 P32 Isotopes ω (γ NO3 (kts) MAX. DEPTH = REMARKS Comment or Others <u>00</u> 3  $\frac{o}{\times}$ 

VESSEL USCG Healy

CRUISE ID H10701

PROJECT & LEG BEST07

DSDB I.D. 1HE07

STATION DESIGNATION

124

25%

CAST #

LONGITUDE

TIME (GMT)

DRY BULB

WET BULB

PRESSURE SEA STATE

VISIBILITY

WIND DIRN.

SPO.

TYPE

STA. NAME/ID

CLOUD (amt)

WEATHER

BOTTOM DEPTH

59,64

32,03

hakeline et so (up)

SEC COND SN
FIRED DEPTH Notes on Surface Ice Conditions or proximity to ice edge SBE 9+ VESSEL USCG Healy PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN SEQ. 17 16 15 7 -13 -CAST # 12 10 ဖ S œ ത 4 ćυ 335641. DESIRED 1×4 5 60 SS  $\overline{\circ}$ 20 8 O 8 LATITUDE notes ROSETTE 7 N16949. SALT SAMPLE BOTTLE NUMBERS AT DEPTH START DOWN DATA ON TIMES CRUISE ID H10701 AT SURFACE PAR S/N DEG NUTS との 72 30 2 5 \ \ \ LONGITUDE 8 127× Oxygen 2 4 w 2 8 A P R JD/TIME 02 Temp 2,0 S O S DATE JD= 유 PROJECT & LEG BESTO7 < FLUOR S/N 0 7 DOM ž -85to PAR on Bridge (µEinsteins m-2s-1) = TIME (GMT) 표 Prod Ray ₹ 2 Melissa ALK (MC) DRY BULB ĉ DSDB I.D. 1 HEO7 \_0 DIC (MC) WET BULB Tish SER PRESSURE SEA STATE P32 VISIBILITY isotopes 707 WIND DIRN. NO3 SPD. STATION DESIGNATION MAX, DEPTH = CLOUD (amt) REMARKS TYPE Comment or Others WEATHER BOTTOM 125 STA. NAME/ID 3

Notes on Surface Ice Conditions or proximity to ice edge VESSEL USCG Healy SEC COND SN PRI COND SN SEC TEMP SN PR! TEMP SN PRESS SN 17 SEQ. FIRED DEPTH 1345652. 16 15 14 CAST # 3 12 = 10 9 DESIRED S 5 29 25 8 60 00 Ū LATITUDE ROSETTE notes 02<sub>z</sub> 452 SALT CRUISE ID H10701 SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN DATA ON 18987 45 bg1 PAR S/N NUTS 44 2 チ A F F × 42 LONGITUDE Oxygen 主 Ī 88 w 2 8 A P R JD/TIME 02 Temp 0,7 PROJECT & LEG BESTO7 된 3 FLUOR S/N DOM 0 7 兹 PAR on Bridge (μEinsteins m-2s-1) = 15140 퐈 TIME (GMT) Prod Ray ALK (MC) Melissa DRY BULB Ú DSDB I.D. 1HE07 V DIC (MC) WET BULB Tish ී N 1 5 0 PRESSURE SEA STATE P32 VISIBILITY isotopes 092 DIRN. N03 STATION DESIGNATION (kts) WIND SPD. MAX. DEPTH = REMARKS CLOUD (amt) TYPE Comment or Others WEATHER BOTTOM DEPTH  $\widehat{\mathbb{E}}$ 69 STA. NAME/ID 96 3 Z Z Z

13557 VESSEL USCG Healy Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN SEQ. 17 FIRED DEPTH CAST # 15 3 4 12 13 = 5 9 00 DESIRED £ 50, 30 Ş 26 5 Ó 5 0 01.52 N 17402 01,33 LATITUDE notes ROSETTE 252 SALT SAMPLE BOTTLE NUMBERS CRUISE ID START DOWN AT SURFACE AT DEPTH DATA ON NUTS 43 528 5 5 567 4 P T 78h 48F LONGITUDE 02,20 Oxygen 2 6 050 142 Suni 100 × 200 A P R O JD/TIME 02 Temp ? 1-12 1/10 DAY 운 PROJECT & LEG BESTO7 ₹ FLUOR S/N MOG ž 70856-PAR on Bridge (µEinsteins m-2s-1) = 246 픘 TIME (GMT) Prod Ray <u>₹</u> ALK (MC) Melissa DRY BULB <del>س</del> . DSDB I.D. DIC (MC) -6 WET BULB 29% Tish <u>2</u>15 PRESSURE D SEA STATE P32 VISIBILITY Isotopes DIRN. 0212 N03 STATION DESIGNATION WIND SPD. MAX. DEPTH = CLOUD (amt) REMARKS TYPE Comment or Others WEATHER BOTTOM DEPTH 65 <u>0</u> STA. NAME/ID U € X C N

SEC TEMP SN PRI COND SN Notes on Surface Ice Conditions or proximity to ice edge SBE 9+ FIRED PRI TEMP SN SEC COND SN PRESS SN 136 22 21 20 19 15 SEQ. <u>≈</u> -1 10 CAST # 16 12 3 ဖ œ **б** DEPTH DESIRED となって 62 63 27 00 0 22 S 40 46 0 83 C (Z) 4 00 6 0 ROSETTE RAW LATITUDE Sligh D 5003 51106 5102 2411S Silo 0 SALT z DATA ON ~ ~ 9 SAMPLE BOTTLE NUMBERS AT DEPTH START DOWN AT SURFACE PAR S/N 40 S 60 <del>و</del> ک 57 45 STUN 38 56 55 60 (VI 2 2 LONGITUDE MA 213 489 02-Mordy S <u>w</u> -1.3 02 Temp 713 ₹ イン 7<u>8</u> A DATE DAY 욷 7 =QĈ О š FLUOR S/N æ POM 0 < 퐀 7 PAR on Bridge ("Einsteins m-2s-1) 돐 TIME (GMT) ALK (MC) Melissa S ĭ DIC (MC) J DRY BULB Tish S 8 015N Isotopes < ŧ < < WET BULB 4 **δ32Σι** < 5 < W gases Trace 90 PRESSURE Micro Zoops SEA STATE VISIBILITY Prod Ray WIND DIRN. N2/Ar Masha SPD. MAX. DEPTH = REMARKS CLOUD (amt) Radon D.Sholl TYPE n622/e WEATHER DEPTH DEPTH 3-02 Devol 3 (V) Problems-fix STA. NAME/ID 3 Z 1

VESSEL USCG Healy

CRUISE ID H10701

PROJECT & LEG BEST07

DSDB I.D.

STATION DESIGNATION

128

Notes on Surface Ice Conditions or proximity to ice edge VESSEL USCG Healy SBE 9+ SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN 17 16 15 74 SEQ. DESIRED FIRED DEPTH 13 CONSC CAST # 12 = 12 ဖ 00 S တ 4 3757 -9t 50 8 Ę Ś 5 Da 10 21.39 LATITUDE notes ROSETTE . | | | | | SALT 245 SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN CRUISE ID H10701 DATA ON TIMES 17436. PAR S/N 77 NUTS 77 4 から t LONGITUDE 36,74 22 Oxygen 260 092 a 4 w 28 A P R O JD/TIME 10-02 Temp 00 8.0-DAY PROJECT & LEG BESTO7 운 중 FLUOR S/N DOM 퐀 7 PAR on Bridge (μEinsteins m-2s-1) = 1412-3. TIME (GMT) 1403 Prod Ray ALK (MC) Melissa DRY BULB DSDB I.D. 1HE07 DIC (MC) 7 1 WET BULB Tish 100 215 PRESSURE SEA STATE P32 VISIBILITY Isotopes DIRN. <u>11</u> NO3 STATION DESIGNATION 129 <u>\_\_</u> (kts) WIND SPD. MAX, DEPTH = CLOUD (amt) REMARKS TYPE Comment or Others WEATHER BOTTOM DEPTH 先 STA. NAME/ID ∃ 大 な な な S 10 80

Notes on Surface Ice Conditions or proximity to ice edge PRESS SN USCG Healy SBE 9+ SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN SEQ. FIRED DEPTH 16 13 15 4 12 = CAST # 5 9 00 6 4 7 2 385702.86 N 17038. DESIRED 401 44 50 6 60 8 D 7 0 94,20 LATITUDE notes ROSETTE 239 SALT DATA ON CRUISE ID SAMPLE BOTTLE NUMBERS AT DEPTH START DOWN AT SURFACE PAR S/N NUTS >#4C + 5h 82 F 196 83 F 18/4 308 880 38 LONGITUDE 37,91 MAS Oxygen 097  $\leq$ 1 JD/TIME 6 W 28 A P R 4.0 02 Temp 4,0 PROJECT & LEG BESTO7 유 8 FLUOR S/N 0 7 MOG ž PAR on Bridge (μEinsteins m-2s-1) = 1 5 5 6 1 TIME (GMT) 1554 Prod Ray <u>K</u> Melissa ALK (MC) DRY BULB N DSDB I.D. 1 HE07 U DIC (MC) WET BULB <u>ড়</u> Tish 99 N. 1. 5 PRESSURE SEA STATE P32 VISIBILITY Isotopes DIRN. N03 WIND SPD. STATION DESIGNATION MAX. DEPTH = REMARKS CLOUD (amt) TYPE Comment or Others 3 WEATHER BOTTOM 冟 **∂**0 00 00 STA. NAME/ID 30 20

SEC COND SN
FIRED DEPTH Notes on Surface Ice Conditions or proximity to ice edge VESSEL USCG Healy PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN 17 SEQ. DESIRED 7 16 Ξ. 12 = 70 CAST # 9 œ ψ O 9th & S DEG 42 7 80 8 20 g F  $\bar{\circ}$  $\propto$ LATITUDE ROSETTE notes <u>S</u> 14 N X L \* SALT CRUISE ID SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN DATA ON 200 PAR S/N NUTS 22 2 95 43 S N 2 86 0 LONGITUDE ρς • Oxygen 220 とこと JD/TIME 1 02 Temp 0,2 DATE JD= PROJECT & LEG BEST07 문 X X FLUOR S/N\_ 20 0 7 DOM ⋨ PAR on Bridge (µEinsteins m-2s-1) 0304-2. 퓼 TIME (GMT) Prod Ray ALK (MC) Melissa DRY BULB DSDB I.D. O DIC (MC) WET BULB Tish M 2 N1 S 七8 (mb) 895 X PRESSURE SEA STATE ¥32 VISIBILITY isotopes ナアのナロ DIRN. NO3 STATION DESIGNATION SPD. MAX. DEPTH = REMARKS CLOUD (amt) TYPE Comment or Others WEATHER BOTTOM DEPTH 92XII -2 R STA. NAME/ID 3

No ice

VESSEL	CRUISE ID	PROJEC	PROJECT & LEG	DSD8 I.D.		STATION DESIGNATION 72 2
USCG Healy	Н10701	BEST07	7	1HE07		2 07
		22			STATE	ID (amt)
CAST # LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB WET BULB	PRES SEA S	WIND WIND O PE A BOTTOM STA. NAME/ID
DEG	DEG MIN	DAY	YR HR MIN		(mb) * *	(kts) * * * (m)
1405756.07	5014 INF	74w29 A P	R070544	8 . 1-		U \
+6 38S	TIMES	JD/TIME				REMARKS
PRESS SN	DATA ON		PAR on Bridge	PAR on Bridge (μEinsteins m-2s-1) =		
PRI TEMP SN	START DOWN					
SEC TEMP SN	AT DEPTH					
PRI COND SN	AT SURFACE		1 130	3		MAX. DEPTH = 86 m
NS ON	APAR S/N		FLUOR S/N			
FIRED DEPTH ROSETTE	SAMPLE BOTTLE NUI	NUMBERS	Ray	Melissa Tish	isotopes	s Comment or Others
SEQ. DESIRED notes	SALT NUTS O	Oxygen O2 Temp CHL	DOM Prod	ALK (MC) DIC (MC)	N15 P32	N03
1 86	* 264 96 ×	x15/ 0,2		V V		
2 60	79			C		
3 50	36	\				
4 HO	99	\		< <		
S s	/00/	/				
6 20	101			< <		
7 10	102					
8	103 %	T'1- 118x		٧ ٧		
0	104			< <		
10						
12						
13						
14			•			
15			285			
6						
17						
18						
Notes on Surface Ice Conditions or proximity to ice edge	litions or proximity	to ice edge				

Notes on Surface Ice Conditions or proximity to ice edge USCG Healy SBE 9+ PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN \_\_ 2 \_\_ FIRED SEC COND SN 22 20 19 8 17 -5 4 1 SEQ. 16 CAST # 13 12 5 9 ω თ S 4 DEPTH DESIRED 5846 г, Со 20 8 60 00 6 60 40 0 3 60 8 20 56 00 0 6 ક 8 క్ 20,00 C) LATITUDE Realest 0 notes ROSETTE 6 r S aid SALT CRUISE ID H10701 SAMPLE BOTTLE NUMBERS AT SURFACE START DOWN AT DEPTH DATA ON 17(45)7. PAR S/N w.X 8 X. NUTS ν, 7 10 Ĭ LONGITUDE 57.46 is n B 40 02-Mordy 02 Temp LP 5 ¥ 29 A P DAY PROJECT & LEG BESTO7 운 MO FLUOR S/N Z MOM 0 ¥ 7 PAR on Bridge ("Einsteins m-2s-1) 돐 TIME (GMT) 1136 Melissa ALK (MC) DIC (MC) < < < S F  $\langle$ < < <u>K</u> < DRY BULB < Tish  $\subset$ DSDB I.D. 1HE07 1200 C/Ch Ç0 015N Isotopes WET BULB 4 δ32Σι 90 gases Trace PRESSURE Zoops Micro SEA STATE VISIBILITY Prod Ray WIND DIRN. deg) N2/Ar Masha (kts) WIND SPD. STATION DESIGNATION MAX, DEPTH = REMARKS CLOUD (amt) 1 Radon D.Sholl TYPE < < WEATHER BOTTOM DEPTH 3-02 Devol 3 S 10:14 00 STA. NAME/ID £0/1X 3

PRESS SN SBE 9+ VESSEL USCG Healy SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN SEQ. FIRED DEPTH 16 15 5 CAST # 14 3 12 4 ဖ œ 6 4258 DESIRED 800 36 40 27 06 0 LATITUDE 6,23 notes ROSETTE SALT 25811 4 CRUISE ID H10701 SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN DATA ON 11502 PAR S/N 子 110 NUTS 156 436 124 4 いっと 200 LONGITUDE Oxygen H G w 29 A P R O JD/TIME 02 Тетр 兒 PROJECT & LEG FLUOR S/N MOG 7 PAR on Bridge (μEinsteins m-2s-1) = TIME (GMT) 88h + Prod Ray 1020° Melissa ALK (MC) DRY BULB DSDB I.D. 1HE07 DIC (MC) 7-12 WET BULB Tish < 200  $\langle$ < < NI S < و PRESSURE SEA STATE P32 VISIBILITY Isotopes DIRN. < < < < ( 7 NO3 STATION DESIGNATION SPD. (kts) CLOUD (amt) MAX. DEPTH = REMARKS Inucat first \$ 1- 140c TYPE Comment or Others WEATHER BOTTOM DEPTH RST X I HO/IX STA. NAME/ID 754 €

Notes on Surface Ice Conditions or proximity to ice edge

SEC TEMP SN PRI COND SN Notes on Surface Ice Conditions or proximity to ice edge FIRED DEPTH PRI TEMP SN PRESS SN SBE 9+ USCG Healy 21 16 SEQ. 22 20 19 ₩ 17 5 7 <u>\_\_\_\_</u> 12 |= CAST # 7 DESIRED C. W C 1 as DEG  $\mathcal{O}$ 15. Sh St. R. 2000 O 01 S LATITUDE P D-40 V 6 50 notes 40 ROSETTE 0 ū 2000 なのく 30 8 ₹ Ž 10 201 6 3 2 z SALT AT DEPTH AT SURFACE CRUISE ID H10701 START DOWN SAMPLE BÖTTLE NUMBERS DATA ON 2407 XZAX 186X XVO X212 グラン STON X2.5X ング 20% LONGITUDE 下 02-Mordy X334-1 9 JD/TIME 2 02 Temp ζ DATE DAY ٩ PROJECT & LEG BESTO7 Ś 온 0 MO 0 FLUOR S/N æ DOM 0 ¥ 7 اليوا PAR on Bridge ("Einsteins m-2s-1) 1-15/02/ TIME (GMT) 픘 ALK (MC) Melissa ス < 7 7  $\subset$ < < <u>₹</u> DIC (MC) < < DRY BULB <7 IS. <ී DSDB I.D. 1HE07 G ò15N 7 7 Isotopes 7 7 WET BULB 632Σι Ć gases Trace PRESSURE Місто Zoops SEA STATE VISIBILITY Prod 22525  $\leq$ DIRN. Masha N2/Ar SPD. STATION DESIGNATION 7 7 MAX. DEPTH = REMARKS CLOUD (amt) D.Sholl Radon TYPE WEATHER BOTTOM DEPTH 3-02 Devol 二十メアコ 少主 メトス STA. NAME/ID 3 ミシ W 9 Vì

VESSEL USCG Healy SEC TEMP SN Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN PRI COND SN PRI TEMP SN PRESS SN FIRED DEPTH SEQ. 144 CAST # 17 16 15 -4 73 12 5 ဖ œ 6 DESIRED 0/2 50 0 0 LATITUDE notes ROSETTE 13N/70 SALT CRUISE ID H10701 SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN DATA ON PAR S/N\_ STUN S 20 39 5 222 W 7 LONGITUDE 2 Oxygen N JD/TIME w Z 02 Temp DAY P PROJECT & LEG BESTO7 þ 욷 ט 8 FLUOR S/N R DOM 0 줐 7 PAR on Bridge (µEinsteins m-2s-1) = 19/ TIME (GMT) 돐 stup of poladup Prod Ray <u>≼</u> コ ALK (MC) DIC (MC) Melissa DRY BULB ලී DSDB I.D. 1HEO7 WET BULB Tish ී loc Z 3 5 0 PRESSURE SEA STATE } P32 VISIBILITY Isotopes Scorense 35924 DIRN. (deg) NO3 SPD. STATION DESIGNATION CLOUD (amt) MAX. DEPTH = REMARKS TYPE WEATHER Comment or Others BOTTOM DEPTH STA. NAME/ID 3

PRESS SN VESSEL USCG Healy SBE 9+ Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN SEQ. FIRED DEPTH CAST # 16 5 ᆲ <u>..</u> 12 17 10 ဖ ထ တ 4 w 458847 DESIRED 40 0 5 20 S 20 0 0  $\propto$ LATITUDE notes ROSETTE Š Z 2 175 SALT 15/0/4/1 CRUISE ID H10701 SAMPLE BOTTLE NUMBERS AT DEPTH START DOWN DATA ON TIMES AT SURFACE PAR S/N NUTS 24 48 7 44 43 40 7 LONGITUDE Oxygen ₹ Z JD/TIME 02 Temp w 29 A P R O DATE DAY PROJECT & LEG BESTO7 足 증 FLUOR S/N 7 DOM ⋨ 7 2056 PAR on Bridge (µEinsteins m-2s-1) = TIME (GMT) 픘 Prod ₽ NO BY ĭ Z Melissa ALK (MC) DRY BULB 0 DSDB I.D. 1HE07 ھ DIC (MC) WET BULB Tish ೦ೆ 1320 <u>215</u> ھہ PRESSURE 6 SEA STATE P32 VISIBILITY isotopes <u>ر</u> د WIND DIRN. N03 STATION DESIGNATION -(kts) SPD. CLOUD (amt) MAX. DEPTH = REMARKS TYPE Comment or Others WEATHER BOTTOM DEPTH な STA. NAME/ID 421 3

7/105 jumphed rafted firty in

USCG Healy	H10701	BEST07	1HE07			-VX
			-		WIND OUD (amt) PE EATHER BOTTOM	
	LONGIT	JD=	(GMT) DRY BULB	BULB PR	SPD.	STA. NAME/ID
1465856.9	7 V O 7 V V V V V V V V V V V V V V V V	W 2 Q A P R 0 7 2	2238-0.1			XH 1 - 8
	TIMES	Ē			REMARKS	
PRESS SN	ON		PAR on Bridge (μEinsteins m-2s-1)	1) = /6/0		
PRI TEMP SN	START DOWN					
SEC TEMP SN	AT DEPTH		\			
PRI COND SN	AT SURFACE		DO 0,	()	MAX. DEPTH =	m (07
SEC COND SN	PAR S/N	FLUOR S/N_	ll			•
FIRED DEPTH ROSETTE	SAMPLE BOTTLE NUMBERS		Ray Melissa	Tish Isot	Isotopes Comment or Others	ers
SEQ. DESIRED notes	SALT NUTS Oxygen	O2 Temp CHL. DOM	Prod ALK (MC) DIC (MC)	иC) N15 P32	NO3	
1 67	49					,
2 50	0.5					
3 40	S					
4 30	12			-		
5 20	S3					
	hS					
7	55 152	1 + )- 1 + )-				
0						Sa
9						
10						
11				•		
12			-			
13						
4						
15						
16						
17	,					

VESSEL USCG Healy SBE 9+ Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN SEQ. FIRED DEPTH 5 1425907. CAST # 17 9 4 13 72 = 5 9 ထ 6 ω DESIRED 50 30 E 20 0 V 9 **LATITUDE** notes ROSETTE N 0 SALT CRUISE ID H10701 SAMPLE BOTTLE NUMBERS AT SURFACE AT DEPTH START DOWN DATA ON PAR S/N\_ 1014 NUTS 85 3 52 40 3 6 80 60 LONGITUDE Oxygen 550 ھے 7w30AP JD/TIME 02 Temp 1  $\propto$ 2 DAY PROJECT & LEG BEST07 윤 8 FLUOR S/N D DOM 0 ⋨ 7 19043 PAR on Bridge (μEinsteins m-2s-1) = 돐 TIME (GMT) Prod Ray <u>X</u> Q ALK (MC) DIC (MC) Melissa DRY BULB DSDB I.D. 1HE07 WET BULB Tish ී 2030 215 PRESSURE SEA STATE P32 VISIBILITY isotopes と十つ DIRN. N03 (kts) SPD. STATION DESIGNATION CLOUD (amt) REMARKS MAX. DEPTH = TYPE WEATHER Comment or Others BOTTOM DEPTH 40 日 次 3 3 9 STA. NAME/ID Dy. 3

SEC COND SN
FIRED DEPTH Notes on Surface Ice Conditions or proximity to ice edge SEQ. 16 15 <del>-</del> 3 12 10 ω 000 თ DESIRED 20 ጸ F 50 62 ō 0 oC ROSETTE notes 265 78 SALT SAMPLE BOTTLE NUMBERS FT NUTS 77 76 74 73 Oxygen 200 140 811-O2 Temp CHL. Sto Marked, jumbled, dirty FLUOR S/N \_ DOM Prod Ray ALK (MC) DIC (MC) Melissa Tish 21.S P32 Isotopes N03 Comment or Others

PRI COND SN	SEC TEMP SN	PRI TEMP SN	PRESS SN	SBE 9+	~ + -	0	CONSC CAST #	VESSEL USCG Healy
					5917.26 N	DEG MIN	LATITUBE	
AT SURFACE	AT DEPTH	START DOWN	DATA ON	TIMES JD/TIME	17012.	DEG MIN DAY	LONGITUDE	CRUISE ID H10701
	 		9	1	48w30APR0702	Y MO YR	DATE JD=	PROJECT & LEG BEST07
7 2×0			PAR on Bridge (µEinsteins m-2s-1)		7 1 20	HR MIN	TIME (GMT)	
S.			insteins m-2s-		٥ پ	(°C)	DRY BULB V	DSDB I.D. 1HE07
			1) = 1421		2	(°C) (r	WET BULB	
			C		7	(mb) * *	PRESSURE SEA STATE VISIBILITY	
					1750	(deg) (kts)	WIND W	ST
MAX. DEPTH =				REMARKS	2	(S) * * *	CLOUD (amt) TYPE WEATHER	STATION DESIGNATION
1= 62					661	(m)	ВОТТОМ	TION
Э					(11110		STA. NAME/ID	140

tions or proximity to ice edge

Notes	18	17	16	15	14	13	12	=	10	φ	œ	7	თ	5	4	ω	2	<b>-</b>	SEQ.	FIRED	SEC COND SN	PRI COND SN	SEC TEMP SN	PRI TEMP SN	PRESS SN	200		CONSC CAST #		VESSEL USCG Healy
on Surfa	İ				] 						0	000	10	20	S	40	× 05	(01	DESIRED	DEPTH	D SN	NS	PSN	Š	51		- 1		-	aly
Notes on Surface Ice Conditions or proximity to ice edge																			notes	ROSETTE						. 9	<u> </u>	LATITUDE		
Condition																			SALT							z	-			
ns or pr																		:		SAMPLE B	PAR S/N	AT SURFACE	AT DEPTH	START DOWN	DATA ON	O				CRUISE ID H10701
oximity						_					50/	80	4	83	28	2	80	79	NUTS 0	SAMPLE BOTTLE NUMBERS	N	æ		NW		7		LONGITUDE		
to ice									,			421						[	Oxygen	MBERS					ć	- - - -		Œ,		
edge												× ×							02 Temp						507 - Inter			DATE		
																			위.		- - - -					APR	—,~	בור בורים		PROJECT & LEG BESTO7
		-																	MOD		CFLUOR S/N		;	_	ज	0 7	∌			& LEG
															,				Prod	Ray		R			PAR on Bridge (µEinsteins m-2s-1)	0	۶ د	TIME (GMT)		
							١												ALK (MC)	Melissa		02			ge (µEinst	1 - 1		) DRY BULB		
																			IC) DIC (MC)						eins m-2s-	6	-[c] 	-		DSDB I.D. 1HE07
																			Ċ	Tish		,			-	•	- (°)	WET BULB		
																		1	N15							2	ر د	PRESSU		
																			P32	Isotopes	:					-		SEA ST VISIBIL		
										*	3								NO3	es						1	2 🧝	WIND W	*	SI
												1									}	MAX			70 }	7	(kts) * *	CLOUD CLOUD	(amt)	ATION DE
																				Comme		MAX. DEPTH =			The yeation	ABKS	*	TYPE WEATH	IER	STATION DESIGNATION
	-																		:	Comment or Others		6				<u> </u>	<u>√</u> 3 > -)	BOTTOM DEPTH		
														``	\	6				5.LS		m		,	St.	7	)	STA. NAME/ID		Jt
1											,				)										I	U		6		

VESSEL USCG Healy SBE 9+ Notes on Surface Ice Conditions or proximity to ice edge SEC COND SN PRI COND SN SEC TEMP SN PRI TEMP SN PRESS SN FIRED DEPTH CAST # <u>-</u>6 15 15 17 14 13 12 9 ω œ ത 505907.25 N 17042.85 W 30A P R DESIRED 101 30 50. 8 8 0 0 07,30 LATITUDE notes ROSETTE 252 SALT CRUISE ID H10701 SAMPLE BOTTLE NUMBERS AT DEPTH START DOWN DATA ON AT SURFACE PAR S/N NUTS 166 112 ヨネ 67 0 109 8 LONGITUDE H2,54 Oxygen され 172 JD/TIME -1,0 Dow Valts 1.5 02 Temp -DAY þ 운 < PROJECT & LEG FLUOR S/N DOM 0 74837 PAR on Bridge (μEinsteins m-2s-1) = 0823 TIME (GMT) 픘 Prod ₽ V <u>₹</u> Melissa ALK (MC) DRY BULB 0 DSDB I.D. 1HE07 DIC (MC) WET BULB Tish rekness in Suravid ed by 245 <u>Z</u> PRESSURE SEA STATE P32 VISIBILITY Isotopes DIRN. NO3 pomeaka 100 -95% SPD. STATION DESIGNATION 9 Floor volts spiles 2 comp up CLOUD (amt) MAX. DEPTH = REMARKS TYPE WEATHER Comment or Others BOTTOM DEPTH **录** STA. NAME/ID 3