| 1/400 | BOTTOM STA. NAME/ID | (w) | | | | bleed valve | m 79 | | SAMPLE BOTTLE NUMBER | TR. CHL. NUTR. | | × | 1186-3 | | | | | | | | | |
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| STA | YSIBILLY VISIBILLY VISIBILLY VISIBILLY VIND VIND OIRN. SPD. | (s/m) (bap) * * | | /Header | 100 | | | | SAMPLE BOTTLE DATA | SALINITY | | | | | | | | | | | | |
| DSDB I.D. | PRESSURE WET BILB | (°C) (mb) | DATA LOCATION | File Name/Header | CTDOO | | | | | SALINITY | | | ٠ | | | | | | | | | |
| sa | TIME (GMT) DRY BULB | 2034 / / . | | Tape/Diskette ID | | | | WS3S868P | LUES | TEMP | | | | | | | | | | | | |
| PROJECT & LEG MF-03-10 | DATE JD≈ | 195 MO YR | | | | | | K FLUOR S/N | CTD CONVERTED MONITOR VALUES | SEC. TEMP | | | | | | | | | | | | |
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| AN | | . 3 N 5 2 | 91220-A TIMES | DATA ON | 710 START DOWN | 884 AT DEPTH | 4091S AT SURFAC | 530 K PAR S/N | | PRESSURE | | | | | | | | | | | | |
| VESSEL NOAA Ship MILLER FREEMAN | | 00151734 | SBE 911+ | PRESS SN | PRI TEMP SN | SEC TEMP SN | PRI COND SN | SEC COND SN | POS. TRIP DEPTH | | 191 | 2 2.3 | 3 | 4 | 2 | 9 | 7 | 80 | 6 | 10 | 11 | |

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| CONSTITUTE CON | VESSEL NOAA Ship MILLER FREEMAN | EMAN | | PR | PROJECT & LEG MF-03-10 | | DSDB I.D. | i.c | : | STATI | STATION DESIGNATION | NOIT | #33 | ~ |
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| 1912-20-A TIMES | | × 9 9 | | N Z DAY | 5 7 0 × 0 | Z 3 | | . 5 | . 8. | <u>)</u> | * 00 | 1 | | |
| 710 714 ON 714 ON 715 | SBE 911+ | | • | JD/TIME | | | 3 | NATA LOCATION | | • | REMARKS | | | |
| 710 START DOWN | PRESS SN | DATAG | × | | } | Tape/Diskette | Qle | File N. | ame/Header | | | | | |
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| | ВОТТОМ | | 137 | ,, | | | Cleaned air bleed valve | MAX. DEPTH = 36 | | SAMPLE BOT | 2 | | X | | | | | | | | | | |
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| 6 | WET BULB | (၁) | \ - | DATA LOCATION | _ | ı | | | | | SALINITY | | | | | : | | | | | | | |
| DSDB I.D. | DRY BULB | (၁့) | 3.3 | _ | _ | | | | | | 3 | | | | | | | | | | | | |
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| 99 | TIME | YR HR | 314 | | Tape/ | | | | S/N WS | NALUES | SEC. TEMP | | | | | | | | | | | | |
| PROJECT & LEG MF-03-10 | | MO | ۵ (۲ | | | | | [| FLUOR S/N | ED MONITOI | | | | | | | | | | | | | |
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| AN | J QD. | | ٠ ۲ ۲ | 91220-A | | 710 | 884 | 40915 | 530 | | PRES | | | | | | | | | | | | |
| LER FREEM | LATITUDE | N N | 65 5 | | | | | | | ЕРТН | <u></u> | \ | , | | | | | | | | | | |
| VESSEL NOAA Ship MILLER FREEMAN | CONSC CAST # | ÄΓ | 200 | SBE 911+ | PRESS SN | PRI TEMP SN | SEC TEMP SN | PRI COND SN | SEC COND SN | S. TRIP DEPTH | | 365 | 2.5 | | | | | | | | | | |
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| SBE 911+ | 91220-A | TIMES | JD/TIME | IME | | | _ | DATA LOCATION | | | REMARKS | | - | 3 |
| PRESS SN | | DATA ON | | | | Tape/Diskette ID | ΘĐ | File | File Name/Header | | なる | Bollowda | 3000 | 1 |
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| SEC TEMP SN | 884 A | АТ ОЕРТН | | | | | | | , | | Sea Clear | Cleaned air bleed valve | valve | |
| PRI COND SN | 40915 A | AT SURFACE | | | | | : | | | | MAX. DE | MAX. DEPTH = / 4 6 | 7 | |
| SEC COND SN | 530 | PAR S/N | 4242 | | FLUOR S/N | WS3S868P | | | X | | | | | |
| РОЅ. ТКІР ДЕРТН | | | 5 | CTD CONVERTED MONITOR VALUES | JONITOR VAL | UES | | | SAMPLE | SAMPLE BOTTLE DATA | <u> </u> | SAMPLE BOTTLE NUMBER | LE NUMBE | ~ |
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| STATION | WIND WIND SPO. CLOUP (amt) | (m/s) | 2 | | | | MA | | SAMPLE BOTTLE DATA | SALINITY | C. | | | i | | | | | | | | |
| | PRESSURE SEA STATE VISIBILITY | , h | | File Name/Header | | CTN 006 | | | SAMPLE | SA | | | | | | | | | | | | |
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| 8 | TIME (GMT) DRY BULB | MIN (°C) | 2 | Tape/Diskette ID | | | | S3S868P | | | | | | | | | | | | | | |
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| 7 | 3 | N N | | DATA ON | 710 START DOWN | 884 AT DEPTH | 40915 AT SURFACE | 530 PAF | | PRESSURE | | | | | | | | | - | | | |
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| CONSTRUCTION CONTROL C | VESSEL. NOAA Ship MILLER FREEMAN | EEMAN | | | <u>₩</u> | PROJECT & LEG MF-03-10 | : | DSDB I.D. | ٥. | : | STAT | STATION DESIGNATION | VIION | CH2 | |
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| VESSEL. NOAA Ship MILLER FREEMAN | | 0 0 8 5 5 4 | SBE 911+ | PRESS SN ————————————————————————————————— | SEC TEMP SN | PRI COND SN | SEC COND SN | POS. IRIP DEPTH | | 1 1501 | 2 Buckest | 3 | 4 | S | 9 | 7 | 80 | 6 | 10 | 11 | 12 | 36 |

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| - | BOTTOM | _ 2 2 | 2 | | | air bleed | -60 | | IMPLE BOT | NGTR. | | | | | | | | | | | |
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| DEG / | MIN DEG | _~ | (| ow . | YR HR MIN | () 2 | (C) (mb) | رن . ۱۰ م | . (2) | 4 - | | i e | |
| 911+ | 91220-A Til | _ | JO/TIME | 2 | 200 | | DATA LOCATION | | 7 2 9 1 | REMARKS | <u> </u> | 4 | |
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| PRI COND SN | 40915 AT SURFACE | FACE | | | | | i | | } | MAX. DEPTH = | PTH= | ٤ | |
| SEC COND SN | 530 K PAR S/N | S/N 4242 | 42 | FLUOR S/N | S/N WS3S868P | | | | | | | | |
| POS. TRIP DEPTH | | | CTD CONV | ERTED M | VALUES | | | SAMPLI | SAMPLE BOTTLE DATA | TA | SAMPLE BOTTLE NUMBER | TTLE NUMB | 8 |
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| CAST # CAST # CAST CA | VESSEL NOAA Ship MILLER FREEMAN | ? FREEMAN | | PROJECT & LEG MF-03-10 | | DSDB I.D. | | | ST/ | STATION DESIGNATION | NATION | Chz | |
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| STATION DESIGNATION CHI | SEA STATE VISIBILITY VISIBILITY DIRN. SPD. CLOUD (amt) SPD. CLOUD (amt) SPD. CLOUD (amt) SPD. STA. NAME/ID | (m) (m/s) (m) (m) (m) (m) (m) (m) (m) (m) (m) (m | MARKS | File Name/Header | 2000 | Cleaned air bleed valve | MAX, DEPTH - 220 m | | SAMPLE BOTTLE DATA SAMPLE BOTTLE NUMBER | | SALINITY SAL. NUTR. CHL. NUTR. | | \$ - | \dagger | × | | | | | | | |
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| S DSDB I.D. | TIME (GMT) DRY BULB WET BULB | HR MIN (C) (C) (m | DATA LOCATION | Tape/Diskette ID File Nan | CTD | | | VN WS3S868P | VALUES | 9 | CO TENT | | | | | | | | | | | |
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| VESSEL NOAA Ship MILLER FREEMAN | CONSC LATITUDE | 742. 14 N | SBE 911+ 91220-A TIMES | | 710 | SEC TEMP SN 884 AT DEPTH | 40915 | SEC COND SN 530 K PAR S/N | ros. IMP DEPTH | PRESSURE | 1220 | 2 50 | 3 /P Chlor max | 2 | | 9 | 7 | 8 | 6 | 10 | 1 | 12 |

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| VESSEL NOAA Ship MILLER FREEMAN | REEMAN | Sd. W | PROJECT & LEG MF-03-10 | DSDB I.D. | STA | STATION DESIGNATION | NOIT | 12/2 | |
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| CONSC CAST # | ЬАПТОЕ | LONGITUDE DATE JD= | TIME (GMT) | DRY BULB WET BULB | SEA STATE VISIBILITY DIRN. ORN. SPD. WIND | 은 증 CLOUD (amt) TYPE WEATHER | BOTTOM DEPTH | STA, NAME/ID | ME/ID |
| O O O | MIN DEG | MIN PAY | MO YR HR MIN | (C) (C) (C) | <u> </u> | . 6 | (E) | | |
| f. | 1220-A TIM | DOTIME | 500 | DATA LOCATION | | REMARKS | 0 | | |
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| PRI COND SN | 40915 AT SURFACE | , | | | | MAX. DEPTH = 7 | | ٤ | |
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| POS. TRIP DEPTH | | CTD CON | IVERTED MONITOR VALUES | | SAMPLE BOTTLE DATA | | SAMPLE BOTTLE NUMBER | E NUMBER | |
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PG 220 OF

| STATION DESIGNATION CACL | WIND COME BOTTOM STA. NAME/ID | (m/s) · · · (m) | REMARKS | | 10 | Cleaned air bleed valve | MAX. DEPTH = 187 m | | TLE DATA SAMPLE BOTTLE NUMBER | | ITY SAL. NUTR. CHL. NUTR. | to | ス | × | メ | | | | | | | | |
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| DSD8 I.D. | LB WET BULB VISIBILITY VISIBILITY VISIBILITY VISIBILITY VISIBILITY VISIBILITY VISIBILITY VISIBILITY | (°C) (mb) · (deg) | DATA LOCATION | File Name/Header | CT0020 | | | 9 | SAMPLE BOTTLE DATA | | SALINITY | | | | | | | | | | | | • |
| PROJECT & LEG DS | TIME (GMT) DRY BULB | MO YR HR MIN (°C) | | Tape/Diskette ID | 1 | | | K FLUOR S/N WS35868P | CTD CONVERTED MONITOR VALUES | شتو | SEC. TEMP | | | | | | | | | | | | |
| 84 W | LONGITUDE DATE JD= | 76 | Or Or | A ON | START DOWN | АТ DEPTH | AT SURFACE | 4242 | | 114 | PRI, TEMP. | | | | | | | | | | | | |
| VESSEL NOAA Ship MILLER FREEMAN | LATITUDE | NIIN DEG | 91220-A | | 710 | 884 | 40915 | 530 | | • | PRESSURE | 101 | 10 | 22 chlor max | 1,4 | | | | | | | | |
| VESSEL NOAA Sh | CONSC CAST # | 2 | SBE 911+ | PRESS SN | PRI TEMP SN | SEC TEMP SN | PRI COND SN | SEC CONE | POS. 1 | | | - | 2 | | ├ | w | 9 | 7 | 60 | 6 | 00 | Ξ | |

PG 20F

| STATION DESIGNATION C N3 | WIND OD PER SOTTOM STA. NAME/ID | (m/s) * * * (m) / (K) / | REMARKS | | | Cleaned air bleed valve | MAX. DEPTH = 69 m | | NTA SAMPLE BOTTLE NUMBER | | SAL. NUTR. CHL. NUTR. | 38 | × | ン | × | | | | | | | | |
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| DSDB I.D. | DRY BULB WET BULB PR | (C) (C) (TD) (TD) (TD) | DATA LOCATION | | CTO | | | de la companya de la | | | SALINITY | | | | | | | | | | | | |
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| PROJ MF-0 | | 2 W 247 | JD/TIME | | | | | 4242 | 1 | | PRI. TEMP. | | | | | | | | | | | | |
| EMAN | | 3. 11 [N] S 2 | 91220-A TIMES | DATA ON | 710 START DOWN | 884 AT DEPTH | 40915 AT SURFACE | ٦ | | | PRESSURE | | | Chlor mAx | | | | | | | | | |
| VESSEL NOAA Ship MILLER FREEMAN | CONSC CAST # | DEG N P O | SBE 911+ | PRESS SN | PRI TEMP SN | SEC TEMP SN | PRI COND SN | SEC COND SN | POS. TRIP DEPTH | | | 69 | 2 20 | 3 2 | 4 | 2 | 9 | 7 | 80 | 6 | 10 | 11 | |

PG 22 OF

| CONSC CAST # LATITUDE DEG MIN DEG A 2 7 5 9 6 9 1 1 5 5 5 5 SBE 911+ 91220-A TIMES PRESS SN 710 START DOWN SEC TEMP SN 884 AT DEPTH PRI COND SN 884 AT DEPTH PRI COND SN 530 AT SURFACE SEC COND SN 530 AT DEPTH POS. TRIP DEPTH | LONGTUDE MIN MIN LONG LANGE LA | | | | | | | | | |
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| OS. TRIP DEPTH | 4242 | K FLUOR S/N | WS3S868P | | ti | | | | | |
| | | CTD CONVERTED MONITOR VALUES | LUES | | - | SAMPLE BOTTLE DATA | TA | SAMPLE BO | SAMPLE BOTTLE NUMBER | 8 |
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| GP | ВОТТОМ ОЕРТН | (m) | | | iii | Cleaned air bleed valve | | | SAMPLE BOTTLE NUMBER | | NUTR. C | | × | × | <u>۲</u> | | | | · | | | | |
| STATION DESIGNATION | WEATHER | . 9 | KS. | | | aned air | MAX. DEPTH = | | SAMPLI | | | | | | X | | | | | | | | - |
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| AN N | UDE | 94 | 91220-A | | 710 | 884 | 40915 | 530 | | | PRI | | | | | | | | | | | | |
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| VESSEL NOAA SI | CONSC CAST # | 023 | SBE 911+ | PRESS SN | PRI TEMP SN | SEC TEMP SN | PRI COND SN | SEC COND SN | POS. | | | - | 2 | 3 | 4 | 25 | ဖ | ^ | 80 | 6 | 10 | 1 | 12 |

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| SAMPLE BOTTLE NUMBER |

| Manual | VESSEL NOAA Ship MILLER FREEMAN | EMAN | | PROJECT & LEG MF-03-10 | EG | DSDB I.D. | | 7. | STATION | STATION DESIGNATION | S NOL | 50 | |
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| 710 START DOWN 884 AT DEPTH 40915 AT SEPTH 40916 SAN 4242 S30 APPRESSIRE PRESSIRE P | PRESS SN | | A ON | | Tape/Diskette | QI : | File Name | Meader | 1 | | | | |
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| _ | BOTTOM OEPTH | <u>E</u> 1 | - | | | d air bie | H- 6 | | SAMPLE BOTTLE NUMBER | | E | | | | × | | | | | | | | |
| STATION DESIGNATION | CLOUD (amt) TYPE WEATHER | . V | REMARKS | | | Cleaned air bleed valve | MAX. DEPTH = | | 133 | | NS. | 30 | , | | | | | | | | | | |
| STATION | WIND SPD. | (s/ш) | 2 | | | | , ~ | | DATA | | | | | | | | | | | | | | |
| | WIND DIRN. | (deg) | 2 | L | 4 | | | | SAMPLE BOTTLE DATA | | SALINITY | | | | | | | | . | | | | |
| 875 | SEA STATE A32 | . 4 | | File Name/Header | 10% | | | | SAMPLE | | | | | | | | | | | | | | |
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| VESSEL NOAA Ship MILLER FREEMAN | T.E.A.T. | N C | - 1 | | | | | | Ŧ | | | | _ | | | | | | _ | | | _ | - |
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| | STA. NAME/ID | | | | | -Ve | ε | | NUMBER | | WHIT'S | \vdash | K | <u>ر</u> | , | _ | | _ | | |

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| CONSC LATITUDE | | | PROJECT & LEG MF-03-10 | 931 | DSDB 1.D. | | | STATION DESIGNATION | Z N N | | |
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| STATION DESIGNATION $Gar{F}$ - $ar{q}$ | BOTTOM DEPTH STA. NAME/ID | (m) | | | ¶a. | Cleaned air bleed valve | ш 09-н | | SAMPLE BOTTLE NUMBER | | WHIT'S CHL. NUTR. | | | | | | | | | | | | | in In spikes |
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| PROJECT & LEG MF-03-10 | | 2-w 6 7 M | JD/TIME | | | | | Z Z | CTD CONVERTED MONITOR VALUES | | PRI. TEMP. | | | | | | | | | | | | | ex of the |
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WHIT'S NUTR. SAMPLE BOTTLE NUMBER 움 Cleaned air bleed valve BOTTOM DEPTH NUTR. STATION DESIGNATION MAX. DEPTH = SO WEATHER REMARKS SAL. 00 SAMPLE BOTTLE DATA File Name/Header WIND DIRN. SALINITY YILIBIZIV SEA STATE 113.62 DATA LOCATION WET BULB Compater Locked up Bad SALINITY OSDB I.D. DRY BULB Tape/Diskette ID CTD CONVERTED MONTOR VALUES TIME (GMT) SEC. TEMP w 3 0 5 V L 0 3 I PROJECT & LEG MF-03-10 PRI. TEMP. LONGITUDE START DOWN AT SURFACE AT DEPTH 49 DATA ON TIMES PRESSURE 91220-A 40915 210 530 884 LATITUDE NOAA Ship MILLER FREEMAN SEC COND SN POS. | TRIP DEPTH 4 SEC TEMP SN PRI COND SN PRI TEMP SN SBE 911+ PRESS SN CONSC 9 Ξ 12 9