WHIT'S NUTR NAME/ID STA. SAMPLE BOTTLE NUMBER P SPD. CLOUD (& MIN)
SPD. CLOUD (& MIN)
SPD. CLOUD (A 무 STATION DESIGNATION MAX. DEPTH = PG REMARKS Cleaned air bleed valve SAL SAMPLE BOTTLE MIND SALINITY DATA DIPN. File Name/Header O SEA STATE VISIBILITY 80 120 DATA LOCATION 2700 (qw) **3JUNSS3H**J TRANSMISSOMETER WET BULB ပ္ SALINITY Tape/Diskette ID . BGB BGB ပ္စ GMT) CTD CONVERTED MONITOR VALUES 41 W/4 N/G9 22 SEC. TEMP PROJECT & LEG 1 CHIAM カスカ 中央XH Ş DATE JD= DA FLUOR **JD/TIME** PRI, TEMP. LONGITUDE START DOWN 62N/16842 AT SUPFACE HA T AT DEPTH DATA ON 9 TIMES HESSUR LATITUDE 58811 980 20 2 £ 0

Alpha Helix TYPE & SN PRESS SN COND SN TEMP SN TEMP SN VESSEL CAST POS 12 0

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WHIT'S NUTR. E NAME/ID STA. SAMPLE BOTTLE NUMBER 목 STATION DESIGNATION N 14 13 MAX. DEPTH = RETER REMARKS Cleaned air bleed valve SAL. SAMPLE BOTTLE WIND O'FN. 70 SALINITY DATA (ded) File Name/Header 0.7 SEA STATE VISIBILITY 700 DATA LOCATION (mp) 3HUSS3H1 L TRANSMISSOMETER K WET WET SALINITY Tape/Diskette ID OHY BULB 7W[6] U G 9 1 W/5 GMT) CTD CONVERTED MONITOR VALUES SEC. TEMP PROJECT & LEG CHAM HX<del>219</del> 222 Œ DATE JD= DA≺ FELLOR JD/TIME PRI. TEMP. LONGITUDE START DOWN 157215824.571N1.68150 AT SURFACE AT DEPTH DATA ON 15 A 8 TAMES HESSUR LATITUDE OEPH HP90 8 Alpha Helix TYPE & SN 3 S 6 8 PRESS SN 0 S GNOO 20 TEMP SN TEMP SN 0 CAST VESSEL 8 10 12 Ξ L) 9 8

N ( E) 4 WHITS NAME/ID STA. SAMPLE BOTTLE NUMBER 字 8 BOTTOM DEPTH STATION DESIGNATION  $\widehat{\mathbf{E}}$ MAX. DEPTH = SEE. REMARKS Cleaned air bleed valve WIND CLOUD (AIM!)
TYPE
WEATHER 14872 SAL. (m/s) SAMPLE BOTTLE Ð MIND SALINITY DATA (ded) File Name/Header SEA STATE VISIBILITY 6.7 DATA LOCATION 0 -(mp) 270 **34**0SS344 **HEAVISMISSOMETER** WET BUEB SALINITY ORY BUB Tape/Diskette ID ပ္ 25815813146116833198W15A10G980220 <u>₹</u> GMT) CTD CONVERTED MONITOR VALUES SEC. TEMP PROJECT & LEG CHAM HXP10 222 £ § DATE JD= M≤ HELLOR JD/TIME PRI. TEMP. LONGITUDE START DOWN AT SURFACE The state of the s AT DEPTH DATA ON 8 TIMES FESSURE LATITUDE 30.7 202 797 201 路 وو Alpha Helix 0 TYPE & SN £ PRESS SN COND SN TEMP SN TEMP SN CAST VESSEL. Š 9 \_ 12 0 က LO 9 ܣ 0

WHITS STA. NAME/ID SAMPLE BOTTLE NUMBER 됩 STATION DESIGNATION BOTTOM MAND COUD (SIMILA) Ê MAX. DEPTH = <u>E</u> REMARKS Cleaned air bleed valve SAL <u>7</u> (m/s) 0 SAMPLE BOTTLE <u>o</u> MIND SALINITY DATA (deg) SE SE File Name/Header þ SEA STATE VISIBILITY Ø DATA LOCATION (am) **TRANSMISSOMETER** ME BE SALINITY  $\omega$ Tape/Diskette ID BUB H ₹ GMT) CTD CONVERTED MONITOR VALUES SEC. TEMP PROJECT & LEG L CHIAM HX<del>210</del> 222 Œ ₹ DATE JD= DAY FLOOR JD/TIME PRI. TEMP. LONGITUDE START DOWN AT SURFACE AT DEPTH TA TA DATA ON 9 TIMES HESSUE LATITUDE **Z** TRIP DEFIN 8 Alpha Helix 3 30 TYPE & SN 7 0 £ PRESS SN COND SN TEMP SN TEMP SN CAST **VESSEL** S. 10 12 N 9 œ 0

WHIT'S NOTA NAME/ID STA. SAMPLE BOTTLE NUMBER WIND COUD (SMILL) 동 STATION DESIGNATION MAX. DEPTH = NGTA. REMARKS Cleaned air bleed valve SAL. Ĉo 01/017 SAMPLE BOTTLE WIND SALINITY DATA NE NE File Name/Header YINBISIV p SEA STATE 270,6 DATA LOCATION (gm) **3Unssau** HIPANSMISSOMETER MET SUEB SALINITY ORY BUB Tape/Diskette ID CTD CONVERTED MONITOR VALUES £ SEC. TEMP PROJECT & LEG 08/0/5/TA/0/0/0/8/0. CHAM HXPH 422 Œ Ş DATE JD-DA≺ FUOR JD/TIME PRI. TEMP. LONGITUDE START DOWN AT SURFACE 1683/NSE AT DEPTIH PAR DATA ON TIMES HESSUR LATITUDE Z 2555828T TRIP DEPTH 30.8 595 Alpha Helix TYPE & SN £ PRESS SN TEMP SN NS GNOO TEMP SN VESSEL CAST a ğ 0 7 S

WHITS NAME/ID 145W STA. SAMPLE BOTTLE NUMBER WIND OUD (GENTLE) 붕 STATION DESIGNATION MAX. DEPTH = KEPK F REMARKS Cleaned air bleed valve SAL 8 C007 SAMPLE BOTTLE MIND SALINITY DATA (deg) NE C File Name/Header SEA STATE VISIBILITY 1.0 DATA LOCATION (mb) **BU**NSSBU 0 **TRANSMISSOMETER** WET BULB ပ္ SALINITY Tape/Diskette ID . BUB BUB GMT) CTD CONVERTED MONITOR VALUES SEC. TEMP 68 W/5 A U G 9 20 PROJECT & LEG CHAM HX<del>210</del> JJJ Œ 8 DATE JD= DA≺ - HEUGH JD/TIME PRI. TEMP. LONGITUDE START DOWN AT SUPFACE AT DEPTH H PA DATA ON TIMES HESSUR がなら LATITUDE 25555 OEPTH DE 8 5/2 30,4 Alpha Helix TYPE & SN £ PRESS SN TEMP SN COND SN 30 TEMP SN VESSEL CAST 8 10 12 S 6

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E NAME/ID STA. SAMPLE BOTTLE NUMBER Ь MAND CO OUD (AMIL)

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WEATHER

(m) STATION DESIGNATION MAX. DEPTH = D D REMARKS Cleaned air bleed valve 0 SAMPLE BOTTLE DATA 0 MIND (ded) File Name/Header SEA STATE VISIBILITY 0, DATA LOCATION (gm) 0 THANSMISSOMETER WET BULB  ${\mathfrak S}$ Tape/Diskette ID BULB ·₩ ပ္ GMT) 15TA UGO \$ 054 CITD CONVERTED MONITOR VALUES PROJECT & LEG CHAM HX<del>210</del> 222 Œ ₽ DATE JD= DAY FLUOH JD/TIME LONGITUDE START DOWN AT SURFACE AT DEPTH DATA ON P. A. 58/N/98/38/88 TIMES LATITUDE ₹ 8 Alpha Helix TYPE & SN £ PRESS SN COND SN TEMP SN TEMP SN 之 VESSEL CAST POS.

|   | 51              |                                   |       |            |                 |     |      |          |            |     |   |   |          |          |
|---|-----------------|-----------------------------------|-------|------------|-----------------|-----|------|----------|------------|-----|---|---|----------|----------|
|   | WHIT'S<br>NUTR. |                                   |       |            | <del>+</del> 3) |     |      |          |            |     |   |   |          |          |
|   | CHL             |                                   |       |            |                 |     |      |          |            |     |   |   |          |          |
|   | NUTR. CHE.      |                                   |       |            |                 |     |      | 970      |            |     |   |   |          |          |
|   | SAL.            |                                   |       |            |                 |     | ::   |          |            |     |   |   |          |          |
|   | SALINITY        |                                   |       |            |                 |     |      |          | 35         | - T | 1155                                    |   |          |          |
|   | SALINITY        | 41222 25401                       |       |            |                 | 33  |      |          |            |     |   | # |          |          |
|   | SEC. TEMP       |                                   |       |            | -               |     |      |          |            |     |   |   | 36.2     |          |
|   | PPI TEMP.       |                                   |       |            |                 |     |      |          |            |     |   | 3 |          |          |
|   | HESSURE         |                                   |       |            |                 | Œ   |      |          |            |     |   |   |          | <u> </u> |
| H |                 | 49.2                              | 0'08/ | 20.42      | 00              | 9 ~ |      |          |            |     |   |   | 1        |          |
|   | <b>V</b>        | -<br>\bar{\bar{\lambda}{\lambda}} | 2 /2  | 3          | 1               |     | 1    | -        | <u> </u>   | +   | ) <u>c</u>                              | - | 2        |          |
|   |                 |                                   |       | L <u>"</u> |                 | - " | ه اد | <u>'</u> | <u>し</u> 。 | 9 6 | تَـــــــــــــــــــــــــــــــــــــ | = | <u>L</u> | 1        |

|                    | 2000     |             |             |          |                              |                  | 1000            |               | 2000             |                         | 700                 |                      | <br>  |          |
|--------------------|----------|-------------|-------------|----------|------------------------------|------------------|-----------------|---------------|------------------|-------------------------|---------------------|----------------------|-------|----------|
| VESSEL             |          |             |             |          | PROJECT & LEG                | EG               |                 |               | 9                | STAI                    | STATION DESIGNATION |                      | -     |          |
| Alpha Helix        |          |             |             |          | HXPH JJJ                     | ر                | _               | 26            | 0:7:0            | <b>V</b>                | (11)                |                      |       |          |
|                    |          |             | •           |          |                              |                  |                 |               | ЭТА              | -                       | (Ims)               |                      | ····  |          |
| SONSC              |          |             |             |          |                              |                  | . }             | nss:          | ,TS /            | CNIW                    | OUC<br>3<br>HTA     | BOTTOM               |       | CTA      |
| ₹<br>*             | LATITUDE | S<br>N      | LONGITUDE   | DATE     | JD=                          | (GMT)            | BUB             | BULB          | \ <u>S</u> I\    |                         | SI<br>TYP           |                      |       | NAME/ID  |
| 990                |          | OEG         | MIN C       | DAY      | WO YR                        | HR MIN           | (0,)            | (S)           | (mb) (dm)        | (deg) (m/s)             | •                   | (m)                  |       |          |
| 25058              | 39.24N   | 0871        | 81519       | 8 W/5/A  | ا و ایا 🗗 🕏                  | 0/00             | 7.2             | <u> </u>      | 43426            | 0/07                    | 1874                | 4                    | 50M/  | 25       |
| e<br>E             |          | TIMES       | JE /        | JD/TIME  | 66                           |                  | ۵               | DATA LOCATION | NOIT             |                         | REMARKS             | Ş                    |       |          |
| TYPE & SN          | <u> </u> | DATAON      |             |          |                              | Tape/Diskette ID | kette ID        | File          | File Name/Header | <u>.</u>                |                     |                      |       |          |
| PRESS SN           |          | START DOWN  | <br> <br> } |          | ŀ                            |                  |                 |               |                  |                         | ()<br>(4)           |                      |       |          |
| TEMP SN            |          | AT DEPTH    |             |          |                              | ٠                | ,               |               |                  |                         |                     |                      |       |          |
| COND SN            |          | AT SUPFACE  | ا<br>س      |          |                              |                  | ı               |               |                  |                         | MAX. DEPTH =        | EPTH =               | į     | E        |
| TEMP SN            |          | E<br>E<br>E |             | FLUOR    | ChIAM                        | 5                | TRANSMISSOMETER | SOMETER       | Cle              | Cleaned air bleed valve | deed val            | ٧e                   |       |          |
| POS. TRIP<br>DEPTH | T        | ]           | E           | CONVERTE | CTD CONVERTED MONITOR VALUES | VALUES           |                 |               | SAMPLE           | SAMPLE BOTTLE<br>DATA   | SAMI                | SAMPLE BOTTLE NUMBER | LENOM | <b>E</b> |
| -                  |          | <u> </u>    |             | 94       | OFC TEMP                     | Q.               | ₩ d             | SAIMITY       | JAS.             | SALINITY                | Y S                 | E                    | 3     | WHITS    |
| \.<br>             |          |             |             |          |                              |                  |                 |               |                  |                         |                     |                      |       |          |
| 200                | 77-7     |             |             | į        |                              |                  |                 |               |                  |                         |                     |                      |       |          |
| 1                  |          |             |             |          |                              |                  |                 |               |                  |                         |                     |                      |       |          |
|                    |          |             |             |          |                              |                  |                 |               |                  |                         |                     |                      |       | ,        |
| 5 2.0              |          |             |             |          | -                            |                  |                 |               |                  |                         |                     |                      |       | T        |
|                    |          |             |             |          |                              |                  |                 |               |                  |                         |                     |                      |       |          |
| 7                  |          |             |             |          |                              |                  |                 |               |                  |                         |                     |                      |       |          |
| •                  |          |             |             |          |                              |                  |                 |               |                  |                         |                     |                      |       |          |
| 6                  |          |             |             |          |                              |                  |                 |               |                  | ~:                      |                     |                      |       |          |
| 10                 |          |             |             |          |                              | v                |                 | -             | ž                |                         |                     |                      |       |          |
| 11                 |          | ,           |             |          | -                            |                  |                 |               |                  |                         |                     |                      | 1     |          |
| 12                 |          |             |             |          |                              |                  |                 | ,             |                  |                         |                     |                      |       |          |
|                    |          |             |             | E        |                              |                  |                 | (7)           | 0.00 M           | 99                      |                     |                      |       |          |

WHITS E NAME/ID STA. SAMPLE BOTTLE NUMBER 6 SPO. CLOUD (AMIN)

SPO. CLOUD (AMIN)

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(M) 동 STATION DÉSIGNATION MAX. DEPTH = REMARKS Cleaned air bleed valve SAL 0/09 SAMPLE BOTTLE MIND SALINITY DATA (ded) File Name/Header なべ SEA STATE VISIBILITY DATA LOCATION 0 (mb) 270 TRANSMISSOMETER WET SELBER SALINITY ORY BULB Tape/Diskette 1D GMT) CTD CONVERTED MONITOR VALUES SEC. TEMP PROJECT & LEG W 5 A U G 9 20 CHAM HX<del>210</del> JJJ £ ξ DATE JD= DA≺ HEUDH. JD/TIME PRI. TEMP. LONGITUDE START DOWN AT SUPFACE AT DEPTH Z PA DATA ON TIMES HESSUE Ž LATITUDE 2/59/58K/ Alpha Helix TYPE & SN g PRESS SN TEMP SN COND SN TEMP SN CAST VESSEL ğ 9 12 S 9 œ 0

WHIT'S NUTR 18/2 Ε NAME/ID STA. SAMPLE BOTTLE NUMBER 움 BOTTOM DEPTH STATION DESIGNATION WE ST MAX. DEPTH = £ REMARKS Cleaned air bleed valve CLOUD (amt) SAL. WIND WIND OF DIPN. SPD. 6 (s/m) SAMPLE BOTTLE SALINITY DATA File Name/Header Ø SEA STATE VISIBILITY ,500 DATA LOCATION (mp) TRANSMISSOMETER SALINITY Tape/Diskette ID ORY BUB GMT) CTD CONVERTED MONITOR VALUES £ 25/W/B | 0 0 0 0 0 0 0 SEC. TEMP PROJECT & LEG ACLAN MAIN HX<del>210</del> 222 Œ ₹ DATE JD= DAY AFUOR JD/TIME PRI. TEMP. LONGITUDE START DOWN AT SURFACE AN A AT DEPTH DATA ON 8 TIMES HESSET 16015819111 LATITUDE TRIP 20,0 Alpha Helix TYPE & SN 9 PRESS SN COND SN TEMP SN TEMP SN VESSEL CAST 8 10 12 S 9 œ O =

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WHITS ٤ NAME/ID STA. SAMPLE BOTTLE NUMBER WIND CLOUD (amil) 목 STATION DESIGNATION MAX. DEPTH = NE SE REMARKS Cleaned air bleed valve SAL ()× SAMPLE BOTTLE 44222 2610 SALINITY MIND DATA (ded) File Name/Header SEA STATE VISIBILITY 27010 DATA LOCATION (dm) TRANSMISSOMETER WET BULB ပ္စ SALINITY Tape/Diskette ID OHY BULB GMT) CTD CONVERTED MONITOR VALUES 208 8 D U A C/W 83. SEC. TEMP PROJECT & LEG CHAM HXEAD 222 Œ ₽, DATE JD= DA≺ JD/TIME HUOH PRI. TEMP. LONGITUDE START DOWN AT SUPFACE AT DEPTH TA TA DATA ON TIMES HESSUR 22 N LATITUDE **₹** 22.42 THE DEPTH 8 Alpha Helix TYPE & SN g PRESS SN TEMP SN COND SN TEMP SN VESSEL CAST à ğ 10 12 9 S œ O

WHIT'S NUTR. E NAME/ID STA. SAMPLE BOTTLE NUMBER WIND WIND COLOUD (APPT) 동 STATION DESIGNATION Ξ MAX. DEPTH = REP. REMARKS Cleaned air bleed valve SAL. (m/s) SAMPLE BOTTLE SALINITY DATA File Name/Header  $\mathcal{O}$ SEA STATE DATA LOCATION (mp) 2700 TRANSMISSOMETER WET BULB SALINITY Tape/Diskette ID DRY BUB CIME) CTD CONVERTED MONITOR VALUES £ SEC. TEMP PROJECT & LEG OF AM HX<del>219</del> 222 02 W/ 5 A U G 9 8 Œ Ş DATE JD= DAY FLUOR JD/TIME PRI TEMP LONGITUDE 29N/6245 START DOWN AT SUPFACE AT DEPTH PA RA DATA ON TIMES PHESSURE LATITUDE DEPTH P 62 39 88 Alpha Helix TYPE & SN £ PRESS SN COND SN TEMP SN TEMP SN VESSEL CAST **8** 10 12 0 ო S 9 8 6

WHITS Ε NAME/ID STA. SAMPLE BOTTLE NUMBER 중 BOTTOM DEPTH STATION DESIGNATION E MAX. DEPTH = E S WIND WIND CLOUD (amt) REMARKS Cleaned air bleed valve SAL (m/s) 0 SAMPLE BOTTLE 8 SALINITY DATA (ded) 3 File Name/Header 0 SEA STATE VISIBILITY DATA LOCATION (mb) 8 3000 34055344 HPANSMISSOMETER WET BULB SALINITY Tape/Diskette ID ORY BULB 1.45 W/5/A UGB \$1/3/3/9 ₹ GMT) CTD CONVERTED MONITOR VALUES £ SEC. TEMP PROJECT & LEG CHIAM LCC CHAXH Œ S DATE JD= DAY HELLON JD/TIME PRI TEMP. LONGITUDE START DOWN 5135/N/4818 AT SUPFACE AND THE PERSON NAMED IN COLUMN TO SERVICE AND THE SERVICE AND THE PERSON NAMED IN COLUMN TO SERVICE AND THE PERSON AT DEPTH DATA ON 9 TIMES HESSER LATITUDE Ş 26389b TRIP DEPTH 8 Alpha Helix TYPE & SN g PRESS SN NS QNOO TEMP SN TEMP SN VESSEL SONSC CAST POS 0 <del>4</del>2 2 က 4 S 8 ø 9

WHITS Ε RES. NAME/ID STA. SAMPLE BOTTLE NUMBER 불 BOTTOM DEPTH STATION DESIGNATION (E) MAX. DEPTH = **RES** REMARKS Cleaned air bleed valve WIND (amt)
CLOUD (amt)
TYPE
WEATHER 77 SAL (m/s) SAMPLE BOTTLE 0 SALINITY MND MND DATA NHO. File Name/Header 0.7 SEA STATE VISIBILITY DATA LOCATION 2700 (gm) 34MSS34H TRANSMISSOMETER WET BULB SALINITY ပ္စ Tape/Diskette ID DRY BUB ပ္ပ် TIME (GMT) CTD CONVERTED MONITOR VALUES SEC. TEMP PROJECT & LEG Q-MM HX<del>ZIO 222</del> 16800141/W/1810089 ¥ 66 Ş DATE JD-DA≺ HUOH HUOH JOYTIME PPIL TEMP. LONGITUDE START DOWN AT SUPPACE APAR RAG AT DEPTH DATA ON 8 TIMES HESSET 50 56 34 N LATTINDE Z TIPIP DEPTH 8 Alpha Helix TYPE & SN £ PRESS SN COND SN TEMP SN TEMP SN VESSEL CAST PCS.

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| VESSEL                 |              |                |           | <u> </u>  | PROJECT & LEG                | 9 <sub>4</sub>   |                        | 270           | 0.10  | STAT                    | ION DESI                       | STATION DESIGNATION  | ~      |                 |
|------------------------|--------------|----------------|-----------|-----------|------------------------------|------------------|------------------------|---------------|---|-------------------------|--------------------------------|----------------------|--------|-----------------|
| Alpha Helix CONSC CAST |              |                |           |           |                              | TIME             | DAY.                   | 34783344E     | SEA STATE VISIBILITY O SE   | ONW CAS                 | CLOUD (amt)<br>TYPE<br>WEATHER | ВОТТОМ<br>DEPTH      |        | STA.<br>NAME/ID |
| 92                     | MN N         | DEG MIN        |           | بالسالة   | MO YR                        | <u> </u>         | ο <u>ν</u>             |               | \$ \frac{1}{2} \cdot \frac{1}{2 | (m/s) (g) %             | . 1                            | (E) 3                | JW (   | 707             |
| 265 58 5               | N 20-1       | 6181015<br>AES | S JOYTIME | A CIT M S | \$ <b>6</b>                  | 2                | -                      | DATA LOCATION |   | -                       |                                | KS                   | 7      |                 |
| TYPE & SN              | . <b>V</b> O | DATA ON        | i         |           | -                            | Tape/Diskette ID | cette ID               | 를             | File Name/Header  | <b>*</b>                |                                |                      |        |                 |
| PRESS SN               | STA          | START DOWN     | z         |           | 1                            |                  |                        |               |   | _                       |                                |                      |        |                 |
| TEMP SN                | ATI          | AT DEPTH       |           |           | i                            | . !              |                        |               |   | 1                       |                                |                      |        | T               |
| NS CINCO               | AT &         | AT SUPFACE     |           |           | <del></del>                  |                  |                        |               |   |                         | MAX. DEPTH =                   | EPTH =               |        | E               |
| No on the              |              | TAN THE        | HODE      | HO3       | Chiaw                        |                  | <b>TRANSMISSOMETER</b> | SOMETER       | Clea  | Cleaned air bleed valve | leed val                       | Ve                   |        |                 |
| POS. TRIP<br>DEPTH     |              |                | 18<br>E5  | NVERTE    | CTD CONVERTED MONITOR VALUES | VALUES           |                        |               | SAMPLE BOTTLE<br>DATA   | BOTILE<br>FA            | SAM                            | SAMPLE BOTTLE NUMBER | LE NUM | <u> </u>        |
|                        |              |                | ONET HOS  | 9         | SEC TEMP                     | Q.W              | %                      | SALINITY      | SALINITY  | IITY                    | SAL                            | RUN                  | SE.    | WHITS           |
| •                      | HESON        |                |           |           |                              |                  |                        |               |   |                         |                                |                      |        |                 |
| - 2                    |              |                |           |           |                              | 1                |                        |               |   |                         |                                |                      |        |                 |
| 3                      |              |                |           |           |                              |                  |                        |               |   |                         |                                |                      |        |                 |
| 4                      |              |                |           |           |                              |                  |                        |               |   |                         |                                |                      |        |                 |
| 5                      |              |                |           |           |                              |                  |                        |               |   |                         |                                |                      |        |                 |
| 9                      |              | -              |           |           |                              |                  |                        |               | ,   |                         |                                |                      |        |                 |
| 7                      |              |                |           |           |                              |                  |                        |               |   |                         |                                |                      |        |                 |
| <b>&amp;</b>           |              | +              |           |           |                              |                  |                        |               |   | <b>~</b> :              |                                | 1                    |        |                 |
| s ÷                    |              |                |           |           |                              |                  |                        |               |   |                         |                                | +                    | _      |                 |
| 2 =                    |              |                |           |           |                              | 1                |                        |               |   |                         | -                              | ,                    |        |                 |
| 12                     |              | •              |           |           |                              |                  |                        |               |   |                         |                                |                      |        | 8               |
|                        |              |                |           |           |                              |                  |                        | 몺             |   |                         |                                |                      |        |                 |

WHITS N 1002 STA. NAME/ID E SAMPLE BOTTLE NUMBER 100 JN 중 WIND CLOSE BOTTOM

SPD. CLOSE

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(ami) STATION DESIGNATION MAX. DEPTH = REFE REMARKS Cleaned air bleed valve SAL. SAMPLE BOTTLE SALINITY MND DATA (ded) File Name/Header 0 W SEA STATE A38 Ø 00 DATA LOCATION 270 (mp) **34**055344 - THEAVISMISSOMETER SALINITY ori BUB Tape/Diskette ID GMT) CTD CONVERTED MONITOR VALUES SEC. TEMP PROJECT & LEG CHIAM LCC eraxH 1680814944/51A106918 £ Ş DATE JD-DA≺ HUDH **JD/TIME** PRI TEMP. LONGITUDE START DOWN AT SUPFACE AT DEPTH DATA ON TIMES 8 **PHESSURE** 12 N LATITUDE Z 665344 OEG # Alpha Helix 2 TYPE & SN 9 g PRESS SN TEMP SN NS QNOO TEMP SN **VESSEL** CAST POS. 10 12 N S 9 (7) 8 0

|           |             |             |             |                              |                  |                        |               |                  |                         |                              | 3                    |        |                |
|-----------|-------------|-------------|-------------|------------------------------|------------------|------------------------|---------------|------------------|-------------------------|------------------------------|----------------------|--------|----------------|
| VESSEL    |             |             | <u>u. 1</u> | PROJECT & LEG                | ပြွ              |                        | 270           | 0.1.0            | STATIC                  | STATION DESIGNATION $N CO 3$ | ESIGNATION N (CO)    |        |                |
| Appa Heix |             |             |             |                              |                  |                        | <b>BUNS</b>   | STATE<br>YTIJIE  |                         | (tms) QU(<br>=<br>A⊒HT/      |                      |        | į              |
|           | I ATITUDE L | LONGITUDE   | DATE        | JD=                          | TIME<br>(GMT)    | BUB                    | WET BUILD     | SEA              | SPO.                    | CIO                          | 됩니                   |        | NAME/ID        |
| 990       | 980         | N           |             | H. OM                        | ¥<br>E           | 5                      | (c) (mp)      | (deg) · · (q     | ٤                       | •                            | (E)-                 | ,      |                |
| 7157 554  | 89 / N 86.7 | 1111        | 7W15A       | U G                          | 1637             | 57.4                   |               | 36131            | 600                     | 474                          | 41                   | 7 N (  | 70             |
| CLD       | TIMES       |             | JD/TIME     | 66                           |                  | 70                     | DATA LOCATION | NOL              | ·                       | REMARKS                      | S                    |        |                |
| TYPE & SN | DATAON      | NO          |             | -                            | Tape/Diskette ID | ette ID                | File N        | File Name/Header | 1                       |                              | i                    |        |                |
| PRESS SN  | START       | START DOWN  |             | <u>.</u>                     |                  |                        |               | -                | <del></del>             | ļ                            |                      |        |                |
| TEMP SN   | AT DEPTH    | T.          |             |                              | ·                |                        |               |                  | 1                       | ļ                            |                      |        |                |
| NS UNCO   | ATSURFACE   | FACE        |             | <u> </u>                     |                  |                        |               |                  |                         | MAX. DEPTH =                 | PTH=                 |        | ٤              |
|           |             |             | H (OR       | MAIN THE                     |                  | <b>JEANSMISSOMETER</b> | OMETER        | Cleane           | Cleaned air bleed valve | eed valv                     | ā                    |        |                |
| I EMP SN  |             |             | CONVERTE    | CID CONVERTED MONITOR VALUES | <u> </u>         |                        |               | SAMPLE BOTTLE    | JTTLE                   | SAMP                         | SAMPLE BOTTLE NUMBER | LE NUM | <b>E</b>       |
|           |             | •           |             |                              |                  |                        |               | DATA             |                         |                              |                      |        |                |
|           | 90 8000     | 8           | PRI TEMP    | SEC. TEMP                    | d.               | SAL                    | SALINITY      | SALINITY         | >                       | SAL                          | NOTR                 | S.     | WHIT'S<br>NUTH |
|           | Heave       |             |             |                              |                  |                        |               |                  |                         | _                            | >                    |        |                |
|           |             |             |             |                              |                  |                        |               |                  |                         |                              |                      |        |                |
| က         |             |             |             |                              |                  |                        |               |                  |                         |                              |                      |        |                |
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| 60        |             |             |             |                              |                  |                        |               |                  | ~                       |                              |                      |        |                |
| 6         |             | \<br>\<br>\ |             |                              |                  |                        |               |                  |                         |                              |                      |        |                |
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|                    |          |            |           |           |                              |                  |                        |               |                       |                         |                              | ב<br>ב                                   | 5      |                 |
|--------------------|----------|------------|-----------|-----------|------------------------------|------------------|------------------------|---------------|-----------------------|-------------------------|------------------------------|--|--------|-----------------|
| VESSE.             |          |            |           | <u>a.</u> | PROJECT & LEG                | EG               |                        | 0,1           | 0                     | STATIC                  | STATION DESIGNATION          | GNATIO                                   | 7      |                 |
| Alpha Helix        | -        |            |           | 픠         | HXP10 222                    | -<br>-<br>-      | -                      | 017           | 2:/-                  | -                       | -[                           | ֧֝֝֝֝֝֝֝֟֝֝֝֝֝֟֝֝֝֟֝֝֟֝֝֟֝֓֓֓֓֓֓֓֓֓֓֓֓֡֝ | +      |                 |
| SNSC<br>SAST       |          |            | 10<br>24  |           |                              |                  | DRY                    | - Sense       | STATS A3              | QNIM                    | I OUD (amt<br>39Y<br>73HTA3V | BOTTOM                                   |        | STA.            |
| *                  | LATTUDE  | TON-       | LONGITUDE | _ابنا_    | -                            |                  | BUCB                   | $\Box$        | ISI -                 | )<br>(a)<br>(a)<br>(b)  | М .                          |  | +-     |                 |
| DEG                |          |            | Z         |           | 8                            | Z O              | 2 1                    |               |                       | 60                      | 972                          | 7  | 87     |                 |
| 7 6858 44.7        |          | 1 89 1 N   | 13.67W(3  | A C ) W   | 0 0                          |                  |                        |               | 101                   |                         |                              |  |        |                 |
| g <sub>D</sub>     | 1        | TIMES      | J.        | JD/TIME   | 3-                           |                  | ۵                      | DATA LOCATION | No                    |                         | REMARKS                      | છ  |        |                 |
| NO 8 DOVE          |          | DATAON     |           |           |                              | Tape/Diskette ID | ette ID                | File N        | File Name/Header      |                         |                              |  |        |                 |
|                    |          | START DOWN | <br>      |           |                              |                  |                        |               |                       |                         |                              |  |        |                 |
| A COST             |          |            |           |           |                              |                  |                        |               |                       |                         |                              |  |        |                 |
| TEMP SN            |          | ATDEPIH    |           | il.       |                              |                  |                        |               |                       |                         | MAX DEPTH                    | HId:                                     |        | E               |
| NS QNOO            |          | AT SUPFACE | <b>3</b>  |           |                              |                  |                        |               |                       |                         | 3                            |  |        |                 |
| TEMP SN            |          |            |           | RUOH      | CHAM                         | -0.0             | <b>FRANSMISSOMETER</b> | COMETER       | Cleane                | Cleaned air bleed valve | eed vah                      | <b>e</b>                                 |        | 1               |
| POS. TRIP<br>DEPTH |          |            | 200       | ONVERTE   | CTD CONVERTED MONITOR VALUES | VALUES           | ,                      | <u> </u>      | SAMPLE BOTTLE<br>DATA | эте                     | SAME                         | SAMPLE BOTTLE NUMBER                     | LE NEW | BEA             |
| ii.                |          |            | £3        |           |                              | =                | 40                     | Y Y LIM       | SAININ                | >                       | SAI                          | 8<br>2<br>8                              | 5      | WHIT'S<br>NUTH. |
|                    | FFESSIFE | Щ.         | PRI TEMP. | EME.      | SEC. LEMP                    |                  | 3                      |               |                       |                         |                              |  |        |                 |
| 1 45               |          |            |           |           |                              |                  |                        |               |                       |                         |                              |  |        |                 |
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| -                  |          |            |           |           |                              |                  | 19                     |               |                       |                         |                              |  |        |                 |
| 5 0                |          | 108        |           |           |                              | <b>-</b>         |                        | 9             |                       |                         |                              |  |        |                 |
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| VESSEL            |            |            |                     |           | PROJECT & LEG                | LEG              | <u> </u> | Ċ               | 2000                          | Ö                       | STATION DESIGNATION | A SIGN       | NOE 4                | ı             |          |
| Alpha Helix       |            |            |                     |           | 大学もクンプ                       | 7                |          |                 | ╌┝                            | +                       |                     | -            | 1                    |               | ļ        |
| SONSC             |            |            | -                   |           |                              | TIME             | . Add    |                 | ESSURE<br>EASTATE<br>SIBILITY | WIND                    | S (S (Main) (DOJ    | REHTAE!      | ВОТТОМ               | STA.          | ر<br>ا   |
|                   | LATITUDE   | LONG       | LONGITUDE           | DATE      | 칅                            | 9                |          |                 | 35                            |                         |                     | w .          | H G                  | NAME/ID       |          |
| DEC               |            | 980        | 2                   | λ¥        | QV<br>QV                     | <b>₹</b>         | <u>်</u> | ္<br>ပ္         | (mp)                          | (deg)                   | (S/W)               |              |                      | )<br> -<br> - | _        |
| 2 69 518 48 .35 N |            | 681        | 6.21                | w / 5     | A U G                        | 11723            | 5        | 1               | 1935                          | 2,00                    | 3                   | 77           | رم<br>0              | Ž.            | <u>0</u> |
| g                 | F          | TIMES      | 3                   | JOYTIME   | 9                            |                  |          | DATA LOCATION   | ATION                         |                         |                     | REMARKS      |                      |               |          |
| TYPE & SN         | <u> </u>   | DATAON     |                     |           |                              | Tape/Diskette ID | kette ID | ij              | File Name/Header              | eader                   |                     |              |                      |               |          |
| PRESS SN          | <u></u> 8  | START DOWN | <br> <br>  <b> </b> |           |                              |                  |          |                 | :                             | -                       |                     |              |                      |               |          |
| TEMP SN           | <u>. '</u> | AT DEPTH   |                     | •         |                              | ,                |          |                 |                               |                         |                     |              |                      |               |          |
| NO CINO           |            | AT SUPFACE | <br> <br>           |           |                              |                  |          |                 |                               |                         | WAX                 | MAX. DEPTH   | #  <br>#             |               | E        |
|                   |            | GAG        |                     | BOTTE     | OPEN                         | <b>∓</b>         | TEANSMIS | TRANSMISSOMETER |                               | Cleaned air bleed valve | ir bleed            | valve        |                      | •             |          |
| POS. TRIP         |            |            |                     | ONVERT    | CTD CONVERTED MONITOR VALUES | 3 VALUES         |          |                 | 3                             | SAMPLE BOTTLE<br>DATA   |                     | AMPLE        | SAMPLE BOTTLE NUMBER | NUMBE         | es.      |
| HLABO             |            |            |                     |           |                              |                  |          |                 |                               |                         |                     |              | -                    | -             |          |
|                   | H SSH      | u          | <u> </u>            | PRI TEMP. | SEC                          | SEC. TEMP        | 85       | SALINITY        |                               | SALINITY                | SAL                 | L. NUR       | 동                    |               | WHITS    |
| . E               |            |            |                     |           |                              |                  | ,        |                 | _                             |                         |                     |              |                      | +             |          |
| 000               |            |            |                     |           |                              |                  |          |                 | -                             |                         |                     |              | +                    | +             |          |
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|                   | d.         |            |                     |           |                              |                  |          | 000             |                               |                         |                     |              |                      |               |          |

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| VESSEL                                 |               |  |           |          | PROJECT & LEG               | EG (             |          | 276                     | 0.               |                         | STATION DESIGNATION | N(C)          | NOTA<br>O S          |          |                 |
| Alpha Helix                            |               |  |           | <u> </u> | HACTO OCC                   |                  |          |                         |                  |                         | · (tm               |               |                      |          |                 |
|  |               |  |           |          | ,                           |                  | •        |                         | STATE<br>STATE   |                         | s) QL               | a) OL<br>A3HT |                      |          |                 |
| CAST                                   |               |  | ļ         |          |                             | TIME             | DRY      | WET                     | SEV ?            |                         | ON S                | AEM           | BOTTOM<br>DEPTH      |          | STA.<br>NAME/ID |
|  | LATITUDE      | PONO<br>PONO<br>PONO<br>PONO<br>PONO<br>PONO<br>PONO<br>PONO | LONGITUDE | 111      | -                           |                  | _        | 1                       | 6 4              | (dea)                   |                     | •             | Œ                    |          |                 |
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| 270584                                 | 05840.05 N168 | [  | 8 811     | W / 5 A  | UG                          | 100              | 7        | <u> </u>                | 181              |                         | )                   | 1             | U                    | <u> </u> | 202             |
| el3                                    |               | TIMES  | g         | JD/TIME  | 66                          |                  |          | DATA LOCATION           | ATION            |                         | <u>æ</u>            | REMARKS       |                      |          |                 |
| TVDE & SN                              |               | DATAON   |           |          |                             | Tape/Diskette ID | kette ID | Fife                    | File Name/Header | leader                  |                     | į             |                      |          |                 |
| No solid                               | <u> </u>      | START DOWN   | <br> <br> |          | <u>_</u>                    |                  |          |                         | •                | -                       |                     | ļ             |                      |          |                 |
| THESS OF                               | <u> </u>      |  |           |          |                             |                  |          | <u> </u><br> <br>       |                  |                         |                     |               | ٠                    |          |                 |
| TEMP SN                                |               | AI DEPIH   | ļ         |          |                             |                  |          | <br>                    |                  |                         | ×                   | MAX DEPTH     | 五                    |          | E               |
| NS GNOO                                |               | AT SURFACE   | ų<br>W    |          |                             |                  |          |                         |                  |                         |                     |               | :                    |          | T               |
|  |               | 4  |           | HODE     | GHAW                        | 1                | THANSME  | <b>JIPANSMISSOMETER</b> |                  | Cleaned air bleed valve | air blee            | d valve       | •                    |          |                 |
| ?L                                     |               |  |           | ONNEDITE | CT CONVERTED MONITOR VALUES | VALUES           |          |                         | 18               | SAMPLE BOTTLE           | 31                  | SAMPLI        | SAMPLE BOTTLE NUMBER | ENUMB    | 5               |
| 88<br>E E E                            |               |  | 5         |          |                             |                  |          |                         |                  | DATA                    |                     |               |                      |          |                 |
|  |               |  |           |          |                             |                  |          |                         |                  |                         |                     |               | ļ                    |          | WHITS           |
|  | HESSURE       | Æ  | PRI TEMP. | EMP.     | SEC. TEMP                   | TEMP             | Š        | SALINITY                |                  | SALINITY                | S                   | SAL           | E E                  | 킹        | E E             |
| 87                                     |               |  |           |          |                             |                  |          |                         |                  |                         |                     | +             |                      |          |                 |
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| 11                                     |               |  | ·         |          |                             |                  |          |                         | '                |                         |                     |               |                      |          |                 |
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| VESSEL              |                  |                  |                  | <u>*</u> | PROJECT & LEG                | ၅                |                 | 70               | 0.7.0   | STATI                   | STATION DESIGNATION       | AOLIANO CONTRACTOR   |           |          |
| Aloha Helix         | -                |                  |                  | Î        | HXPTO DOO                    | امد              | _               | 2/2              | <br> -<br> -<br> -  | -                       |                           | 0)                   | _         |          |
| OSNSC               |                  |                  |                  |          |                              | EME              | DRY             | ESSOLE<br>S<br>S | SIBILITY  STATE  STATE |                         | ims) QUO.<br>39<br>83HTA3 |                      |           | STA.     |
| SASI<br>*           | LATITUDE         | LON              | LONGITUDE        | DATE J   | -Q5                          | (GMT)            | BULB            |                  | A/E   |                         | U<br>Cl                   | 익                    | - -       | NAME/ID  |
| DEG                 | Z                | 88               | NIN              | DAY      | EX.                          | ¥<br>¥           | ဥ               | (m) (o)          | de .  | Ĕ                       |                           | Ē-                   |           | -        |
| 27 11 522           | 5 21 NO 7 7 7878 | 12821            |                  | 5.A      | U G                          | 1815             | 2.7             | 7                | 93432   | 007                     | 877                       | 3                    | 301       | C 0 7    |
| <u> </u>            |                  | TIMES            | yDr.             | JD/TIME  | 66                           |                  | 70              | DATA LOCATION    | NO  |                         | REMARKS                   | S                    |           |          |
| TYPE & SN           |                  | DATAON           |                  |          | <u> </u>                     | Tape/Diskette ID | ette ID         | Fife N           | File Name/Header  |                         |                           | ļ                    |           |          |
| DECC CAL            |                  | START DOWN       | \<br>\<br>\<br>\ |          | 1                            |                  |                 |                  |   | ļ                       |                           |                      | ·         |          |
|                     |                  | - TO - TO - TO - |                  |          | <u> </u>                     |                  |                 |                  |   | ,                       |                           |                      |           |          |
| TEMP SN             |                  | A DEL            | 1                |          | <u>'</u>                     |                  |                 |                  |   | ı                       | MAX. DEPTH                | PTH=                 | !         | E        |
| NS GNOO             |                  | AT SURFACE       | <br> <br>  بر    |          |                              |                  |                 |                  |   |                         |                           |                      |           |          |
| TEMP SN             |                  | 4                |                  | PEECOR   | GHAM                         | +                | TRANSMISSOMETER | XOMETER          | Clean   | Cleaned air bleed valve | eed valv                  | <b>e</b>             |           |          |
| POS. TRIP<br>DEPTIH |                  |                  |                  | ONVERTED | CTD CONVERTED MONITOR VALUES | VALUES           |                 |                  | SAMPLE BOTTLE<br>DATA   | ютпе<br>А               | SAMP                      | SAMPLE BOTTLE NUMBER | LENUM     | <u> </u> |
|                     | HESSUE           | <u> </u>         | PRI TEMP.        | EMP.     | SEC. TEMP                    | EMP              | l sk            | SALINITY         | SALINITY  | <b>≧</b>                | SAL.                      | AT-JN                | 콩         | WHITS    |
| 19                  |                  |                  |                  |          |                              |                  |                 |                  |   |                         | 1                         |                      |           |          |
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| œ                   |                  |                  |                  |          |                              |                  |                 |                  |   |                         |                           |                      |           | T        |
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| ĵ.                  |                  |                  |                  |          |                              |                  |                 |                  |   |                         | +                         | +                    | +         |          |
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|                    |             |             |                              | PROJECT & LEG | 9                |                 |                    |                  | ST                      | STATION DESIGNATION | ICANATION OF           | ~       |          |
| WESSEL<br>FE       |             |             |                              | CCC areyo     | سر ا             |                 | 270                | 0.000            |                         | Ž                   | 2000                   |         |          |
| Alpha Helix        |             |             | =                            | 1000          |                  |                 |                    |                  | _                       | (I)                 | _                      | _       |          |
|                    |             |             |                              |               |                  |                 | _3 <del>.</del> 1∩ | <u> </u>         |                         | ms) Q               | <b>YEI</b> A           |         |          |
| CAST               | <del></del> | ,           |                              |               | TIME             | MG              | WET WET            | S AS             |                         | 3J/<br>001          | _                      |         | STA.     |
|                    | LATITUDE    | LONGITUDE   | DATE                         | JD=           | (GMT)            | BUB             | <u>_</u>           | iv<br>is         | -                       | U<br>O              |                        | 4       | NAME/ID  |
| 590                | 98          | N           | DAY                          | MO YR         | ¥<br>E           | <u></u>         | <u></u><br>ဦ       | - 1              | (deg) (m/s)             |                     | <u>E</u> -             |         | -        |
| 1-72               | 75.41 NI 68 | 71 82       | 2 W 15 A                     | A U G 9       | 1856             | 5 7             | <u> </u>           | 9343             | 3200                    | 06872               | 5                      | D N N S | <u>م</u> |
| ZI .               | THACE       |             | INTIME                       | 66            |                  | 2               | DATA LOCATION      | NOL              |                         | REMARKS             | ЖS                     |         |          |
| <u>-</u>           |             |             |                              |               |                  |                 |                    | Jomo/Hoo         | olor                    |                     | G,                     | `       |          |
| TYPE & SN          | DATAON      | NO<br>NO    |                              |               | Tape/Diskette ID | ette iD         | - 22               | File Name/riedue | <u> </u>                |                     | 100                    |         |          |
| PRESS SN           | STAR        | START DOWN  | 59<br>59                     | <br>ا         |                  |                 |                    |                  |                         |                     | •                      |         |          |
| TEMP SN            | ATDEPTH     | '<br>₩      |                              |               |                  |                 |                    |                  |                         |                     |                        |         |          |
|                    | ATOR        | AT SHIPEACE |                              | <u> </u>      |                  |                 | 1                  |                  |                         | MAX. E              | MAX. DEPTH =           |         | E        |
| No CAND            | 3 [         |             |                              |               |                  |                 |                    |                  | Cleaned air bleed valve | Mood va             | ٩                      |         |          |
| TEMP SN            | PAR         |             | RUCH                         | D W           | $\Pi$            | H-MOSWISSOMETER | ZWEI EX            |                  | realien an              |                     |                        |         |          |
| POS. TRIP<br>DEPTH |             |             | CTD CONVEHTED MONITOR VALUES | ED MONITOR    | VALUES           | •               | 9                  | SAMP             | SAMPLE BOTTLE<br>DATA   |                     | SAMPLE BOI ILLE NOWBER |         |          |
|                    | #1883##     |             | PRI TEMP.                    | SEC. TEMP     | EMP              | N N             | SALINITY           | Ø                | SALINITY                | SAL                 | NOTR                   | 콩       | WHITS    |
| 10                 |             |             |                              |               |                  | 2=              |                    |                  |                         |                     |                        |         |          |
| ╀                  |             |             |                              |               |                  |                 |                    | _                |                         |                     |                        |         |          |
| 3 /3               |             | -           |                              |               |                  |                 |                    | ī                |                         |                     |                        |         | 50       |
|                    |             | <br> <br>   |                              | 51            |                  |                 | 25                 |                  | 1,40                    |                     |                        |         |          |
|                    |             | 111         |                              | (*)           |                  | e               | 잗                  |                  |                         | 00-9 2              |                        |         |          |
| ╄                  |             | <u> </u>    |                              |               |                  |                 |                    |                  |                         |                     |                        |         |          |
| +                  | 24          | <br>        |                              | <b>≅</b>      |                  |                 | (4)                |                  |                         | 220                 | 5A                     |         |          |
| 7                  |             | _           |                              |               |                  |                 |                    |                  |                         | un<br>an            |                        |         |          |
| 8                  |             |             |                              |               |                  |                 |                    |                  | <b>-</b> (8             |                     |                        |         |          |
| 6                  |             |             | 30                           |               |                  |                 | (F)                |                  |                         | = 00                |                        |         |          |
| 10                 |             |             |                              |               |                  |                 |                    |                  |                         |                     |                        |         |          |
| 1                  | 0           | S (4        |                              |               | 100              |                 |                    |                  |                         |                     |                        |         |          |
| 12                 |             |             |                              | ā:            |                  |                 | 19                 |                  | *                       |                     |                        |         |          |
|                    | )           |             |                              |               |                  |                 |                    |                  |                         |                     |                        |         |          |

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| VESSEL      |                 |            |           | <u>Æ</u>  | PROJECT & LEG  | g                | _                      |               | 270              | 07                      | STATION DESIGNATION | DESIGN         | NOTA!                | _\x<br>-\x   |       |
|-------------|-----------------|------------|-----------|-----------|----------------|------------------|------------------------|---------------|------------------|-------------------------|---------------------|----------------|----------------------|--------------|-------|
| Alpha Helix |                 |            |           | X<br>X    | HXEA 2.7.4     | ļ                |                        |               |                  | 2                       |                     |                |                      |              |       |
|             |                 |            |           |           |                |                  | ·                      |               | <u> </u>         | 1 II                    | tms) Q              | tms) (I<br>Я⊒Н |                      |              |       |
| CAST        |                 |            |           |           |                | TIME             | ₩                      | WET           | EV 2             |                         | MIND (S             | ΤΑΞν           | BOTTOM               |              | STA.  |
|             | LATITUDE        | LONGITUDE  | -         | mL        | ┝              | ⋧⊦               | BAG S                  |               | S                |                         |                     | ۸.             |                      | ╃╼           |       |
| 93          | MN              | N<br>S     | 2         | DAY       | 7              | <b>₹</b>         | ()<br>()               | ်<br>(၁)      | · (am)           | 3697                    | 1                   |                | $\vdash$             |              | E     |
| 274483      | 74 48 25 33 N/6 | 6823       | 22. CZ W  | 18 A L    | U G 9          | 1811             | 5.7                    |               | 1861             | 1320                    | 00                  | 72             | 7                    | 11119        | 700   |
|             | 1. ⊢            | 1          | JD/TIME   | NE NE     | 66             |                  | Õ                      | DATA LOCATION | ATION            |                         | <u></u>             | REMARKS        |                      |              |       |
| 3           |                 |            |           |           |                | Tane/Diskette ID | Ol effe                | Ĕ             | File Name/Header | Header                  |                     | 19 Ho,         | P. Q.                |              |       |
| TYPE & SN   | A I             | DATAON     |           |           | <u> </u>       |                  |                        |               |                  |                         |                     |                | SON CONTRACTOR       | A            |       |
| PRESS SN    | ₹ <u>.</u>      | SIAHI DOWN |           |           | <u>-   </u>    |                  |                        |               |                  |                         |                     |                |                      |              |       |
| TEMP SN     | ATD             | AT DEPTH   |           |           | <del></del> L. |                  |                        | \<br>         |                  |                         |                     | B              | §                    |              | 6     |
| COND SN     | ATS             | AT SURFACE |           |           |                | ĺ                |                        |               |                  |                         | X.                  | MAX. DEPIH =   | # E                  |              | E     |
|             |                 | O O        |           | g         | CHAM           |                  | <b>JEANSMISSOMETER</b> | SOMETER       | T                | Cleaned air bleed valve | air bleec           | j valve        | _                    |              |       |
| 7 L         |                 | 1          |           |           |                |                  |                        |               | 100              | SAMPLE BOTTLE           | TLE                 | SAMPL          | SAMPLE BOTTLE NUMBER | ENUME        | E E   |
| POS.        |                 |            |           | Vehicle   |                |                  |                        |               |                  | DATA                    | -                   |                |                      |              |       |
|             |                 |            | <br>      |           |                |                  |                        |               |                  |                         |                     |                |                      |              | WHITS |
|             | PHESSURE        |            | PRI TEMP. | <u>a.</u> | SEC. TEMP      | d.               | <b>₹</b>               | SALINITY      |                  | SALINITY                | δ                   | JAL.           | 2                    | 1            |       |
| 8           |                 |            |           |           |                |                  |                        |               |                  |                         |                     | +              | +                    |              | Τ     |
| 2 20        |                 |            |           |           |                |                  |                        |               |                  |                         |                     |                |                      |              |       |
| 3 13        |                 | -          |           |           |                |                  |                        |               |                  |                         |                     | _              |                      | <del> </del> |       |
| 4 13        |                 |            |           | _         | *              |                  |                        |               | $\frac{1}{1}$    |                         | +                   | +              |                      | $\dagger$    |       |
| 5           |                 |            |           |           |                | 1                |                        |               |                  |                         |                     | _              | +                    |              |       |
| . 6         |                 |            | !         |           |                |                  |                        |               | -                |                         |                     | +              | +                    |              |       |
| 7 5         |                 |            |           |           |                |                  |                        |               |                  | . [``                   | +                   | +              | +                    | +            |       |
|             |                 |            |           |           |                |                  |                        |               |                  |                         |                     |                | +                    |              | T     |
| 77          |                 |            |           |           |                |                  |                        |               |                  |                         | _                   | +              | +                    | +            | T     |
| <u> </u>    |                 | -          |           | ;         |                |                  |                        |               | _                |                         | $\dashv$            | +              | +                    | $\dagger$    | T     |
| _           |                 | _          |           |           | }<br>          |                  |                        |               | $\dashv$         |                         | $\dashv$            | +              | +                    | $\dagger$    | T     |
| _           |                 |            |           |           |                | 1                |                        |               | _                |                         | -                   | 100            | $\dashv$             | 1            | 7     |
| 121         |                 |            |           |           |                |                  |                        | ă.            |                  |                         |                     |                |                      |              |       |

WHITS E NAME/ID STA. SAMPLE BOTTLE NUMBER 공 7 **BOTTOM** STATION DESIGNATION MNN C. OUO IO STATE  $\widehat{\mathbf{E}}$ MAX. DEPTH = **E** REMARKS Cleaned air bleed valve 00 6 972 SAL SAMPLE BOTTLE NEW STATE SALINITY DATA (ded) 632 File Name/Header 0. YTJIBISIV 9 200 SEA STATE DATA LOCATION (qui) HEESSTHE TEMASMISSOMETER WET ပ္ SALINITY Tape/Diskette 1D o<del>n</del>Y BUB <del>ဂ</del> GMT) CTD CONVERTED MONITOR VALUES SEC. TEMP PROJECT & LEG - CHAIN HX<del>210</del> JZZ 4441/1682131511W/5/210GOB £ DATE JD= DAY FLUOR JD/TIME PRI TEMP. LONGITUDE START DOWN AT SUPFACE 4 AT DEPTH DATA ON 9 TIMES HESSUR LATITUDE Z 15833 THP DEPTH HG Alpha Helix IYPE & SN £ PRESS SN ã SOND SN TEMP SN TEMP SN CAST VESSEL POS. 12 10 = ស œ 9 0

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**LIFIZIA** WHITS Ę META NAME/ID STA. SAMPLE BOTTLE NUMBER AL10 궁 MOOKING 8 DEPTH BOTTOM STATION DESIGNATION E MAX. DEPTH = REPN AT THE REMARKS WIND (SIMI)
CLOUD (SIMI)
TYPE
WEATHER Cleaned air bleed valve 872 SAL (m/s) 000 SAMPLE BOTTLE MIND SALINITY DATA (ded) File Name/Header 270 1.0 VIDIBICITY 93 SEA STATE DATA LOCATION 6 (mp) HESSOUPE **FIRMUSIMISSOMETER** WET BULB ပ္ SALINITY Tape/Diskette ID OAY BULB GMT) CTD CONVERTED MONITOR VALUES 158 N/683 B 12 JM/ Stal G9 872 SEC. TEMP PROJECT & LEG Chlaw HXP10 222 Œ £ DATE JD= DA≺ JD/TIME 1000 P PRI TEMP. LONGITUDE Ž START DOWN AT SUPFACE 五十 AT DEPTH DATA ON 9 TIMES HESSUE LATITUDE Z 5833 TRIP DEPTH 9 Alpha Helix TYPE & SN E PRESS SN NS QNOO TEMP SN TEMP SN VESSEL CAST 8 10 7 Ξ N n S 9 00 0 -

|                    |          |            |                |             | 50 00                        | 100 888          | No. of the last |   |  |                         |                               | ,                       | ;<br> <br>   , |                 |
|--------------------|----------|------------|----------------|-------------|------------------------------|------------------|-----------------|---|--|-------------------------|-------------------------------|-------------------------|----------------|-----------------|
| VESSE              | -        |            |                | <u> </u>    | PROJECT & LEG                | ឡ                | <del></del>     | ,,  | 0  | STATI                   | STATION DESIGNATION           | SNATION /               | _ <            |                 |
| Alpha Helix        |          |            | 1              | Ξ           | HX210 277                    | امد              | -               | 7.  | 0 -  | -                       | <b>₹</b>                      |                         | )-             |                 |
|                    |          |            | <u>.</u>       |             |                              | TIME             | DRY<br>B.B.     | ≥ %<br>E 29<br>E 29<br>E 29<br>E 29<br>E 29<br>E 29<br>E 29<br>E 29 | STATS A38 VIUIGIEIV  NEURICITA  N | WIND<br>SPD.            | CLOUD (amt<br>TYPE<br>MEATHER | воттом<br>рертн         |                | STA.<br>NAME/ID |
|                    |          |            | LONGITUDE      | )           | \$ Q                         | Z<br>T           | ဉ့              |   | •  | (m/s)                   | •                             | Œ                       |                |                 |
| 27 74 920          | Z        | 11.829.0   | 10 6           | ⋖           | U G                          | 2239             | 16.18           | 1   | 3632   | 0 0 5                   | 272                           | 9                       | 2N (           | 012             |
| =                  |          | TIMES      | )<br>OS        | JOYTIME     | 66                           |                  | 70              | DATA LOCATION   | NOI  |                         | REMARKS                       | છ                       |                |                 |
| NO HON             |          | DATAON     |                |             |                              | Tape/Diskette ID | cette ID        | File N  | File Name/Header   |                         |                               |                         |                |                 |
|                    | <u>ਲ</u> | START DOWN | <br>           |             | ı                            |                  |                 |   |  | 1                       |                               |                         |                |                 |
| NS GV              | <u>_</u> | ATINEPTH   |                |             | <br>I                        |                  |                 |   |  |                         | ì                             |                         |                |                 |
| EMP OF             | <u> </u> | N DC       | ļ<br>,         |             | <u> </u>                     |                  |                 |   |  |                         | MAX. DEPTH                    | :PTH =                  |                | E               |
| NS QNO             | ₹ [      | A SUFFICE  |                | Ì           |                              |                  |                 |   |  | Cleaned air bleed valve | yley bee                      | ٩                       |                |                 |
| TEMP SN            | 1        | PAR        | 7              | FLOOR       | CHAM                         | $\Box$           | THANSMISSOMETER | ZWEIER  |  |                         | TANK O                        | CANOI E DOTTHE NI MAPED | A IN D         |                 |
| POG. TRUP<br>DEPTH |          |            | CIDC           | ONVERTIE    | CTD CONVERTED MONITOR VALUES | VALUES           |                 |   | SAMPLE BOILLE<br>DATA  | A                       | SAME                          |                         |                | 5               |
|                    |          | tu         | PRI. TEMP.     | JAP.        | SEC. TEMP                    | EMP              | SAI             | SALNITY   | SALINITY   |                         | SAL.                          | MCF.                    | 콩              | WHITS           |
| . 54               |          |            |                |             |                              |                  |                 |   |  |                         |                               |                         |                |                 |
| ┿                  |          |            |                |             |                              | ,                |                 |   |  |                         |                               |                         |                | T               |
| 3 47.              |          |            |                |             |                              |                  |                 |   |  |                         |                               |                         |                |                 |
| +-                 |          |            |                |             |                              |                  |                 |   |  |                         |                               |                         |                | $\top$          |
| ┼                  |          |            |                |             |                              |                  | ,               |   |  |                         |                               |                         | <del></del>    |                 |
| -                  |          |            |                | <del></del> |                              |                  |                 |   |  |                         |                               | +                       |                | \               |
| 0 1                |          |            |                |             |                              |                  |                 |   |  |                         | 1                             |                         |                | T               |
|                    |          |            | <br> <br> <br> |             |                              |                  |                 |   |  |                         |                               |                         |                |                 |
| 20                 |          |            |                |             |                              |                  |                 |   |  | <b>~</b> .              |                               |                         |                |                 |
| 6                  |          |            |                |             |                              |                  | <u>.</u>        | * .   |  |                         |                               |                         |                |                 |
| 10                 | , .      |            |                | :           |                              |                  |                 |   |  | ,                       |                               |                         | 7              |                 |
|                    |          |            |                |             | ,                            |                  | ,               |   |  |                         |                               |                         |                |                 |
| 121                |          | Î          |                |             |                              |                  |                 | 101   |  |                         |                               |                         |                |                 |

C 1 1 WHITS STA. NAME/ID E SAMPLE BOTTLE NUMBER Ų V 동 BOTTOM 63 STATION DESIGNATION Ξ MAX. DEPTH = REMARKS Cleaned air bleed valve S WING CLOUD (amt)
TYPE
HERATHER 872 SAL 10 (m/s) SAMPLE BOTTLE MIND SALINITY 0 DATA (ded) S. N. File Name/Header 37 70%07 YTIJIBISIV SEA STATE DATA LOCATION (mp) 3HUSS3HH **HPANSMISSOMETER** WET BULB ပ္ SALINITY Tape/Diskette ID ORY BULB ပ္ <u>Z</u> GMT) 30 CTD CONVERTED MONITOR VALUES SEC. TEMP PROJECT & LEG 60 W [ 5 A U G 9 \$ 2 CHAM HX<del>210</del> 222 ⊊ 66 Š DATE JD= DA≺ FELOR JOTIME PRI TEMP. LONGITUDE Z START DOWN 16831 AT SUPFACE AT DEPTH A A DATA ON TIMES 8 HESSUE 12 VN LATITUDE Z 28 8 250 20 57 40 30 0 Alpha Helix TYPE & SN 0 £ PRESS SN TEMP SN NS GNOO TEMP SN VESSEL. SNSC SNSC CAST S 9 12 <del>-</del> ~ က S 8 0 9

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アプロファ WHITS Ε STA. NAME/ID SAMPLE BOTTLE NUMBER W 됩 68 DEPTH BOTTOM STATION DESIGNATION MNN c. OUD 10 SATT . (E) MAX. DEPTH = **E S** REMARKS Cleaned air bleed valve SAL 1001 SAMPLE BOTTLE MIND SALINITY DATA (ded) NE CO File Name/Header 27001.0 YIJIBISIV 202 SEA STATE DATA LOCATION (mb) HESSAUPE TRANSMISSOMETER WET BULB <u>ဂ</u> SALINITY 8 Tape/Diskette ID . BUB BUB ပ္ 2740 GMT) CTD CONVERTED MONITOR VALUES SEC. TEMP PROJECT & LEG T-CHAN HX<del>210</del> 222 16839138 W 16 A U GO B Œ Ş DATE JD= JOYTIME IS DA≺ FLUOR PRI. TEMP. LONGITUDE START DOWN AT SUPFACE F&T AT DEPTH DATA ON 8 TIMES HESSUE z ر ح LATITUDE Z 10562 98 20 Alpha Helix 47 40 2 TYPE & SN £ 0 PRESS SN S QNO TEMP SN TEMP SN WESSEL SONSC CAST SS 12 10 = S 9 8 **O** 

WHITS E REPA NAME/ID SAMPLE BOTTLE NUMBER STA. 동 20 **BOTTOM** STATION DESIGNATION WW C. OUD (amr)  $\widehat{\mathbf{E}}$ MAX. DEPTH = REP. REMARKS Cleaned air bleed valve 7 SAL 87 <u>0</u> SAMPLE BOTTLE MIND SALINITY 320 DATA (ded) File Name/Header 0 YTJIBISIV SEA STATE 2700 DATA LOCATION (qui) **ESSONE** MEANISSOMETER WET ပ္ SALINITY Tape/Diskette 1D . BUGB ပ္ TIME (GMT) 004 CTD CONVERTED MONITOR VALUES SEC. TEMP PROJECT & LEG CHIAM HX<del>210</del> 222 63W1VA0G9 Œ Ş DATE JD= DA≺ HELLOR JD/TIME PRI TEMP. LONGITUDE Z START DOWN AT SUPFACE ₩ Even AT DEPTH DATA ON TIMES 8 HESSUE Z 0 LATITUDE Ş TRIP DEPTH 20 Alpha Helix 20 TYPE & SN 20 £ 0 PRESS SN 72 COND SN TEMP SN TEMP SN VESSEL CAST S 12 10 Ξ Ŋ 9 œ 0

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|             |          |            |           |            |                  |                  |                        |               |                  | The second second       |                     | ,<br>-               |             |                 |
|-------------|----------|------------|-----------|------------|------------------|------------------|------------------------|---------------|------------------|-------------------------|---------------------|----------------------|-------------|-----------------|
| VESSEL.     |          |            |           | <u>a</u> 1 | PROJECT & LEG    | EG               |                        | 2700          | 0.70             | STAT                    | STATION DESIGNATION | SIGNATION V          | ~~          |                 |
| Alpha Helix |          |            |           | = <br> -   | VC10 0000        |                  |                        |               |                  |                         | (10                 | _                    | _           |                 |
|             | -        |            |           |            |                  |                  | ····                   | 34            | 3TA1             | <del> , .</del>         | ns) G<br>F3         |                      |             |                 |
| CONSC       |          |            |           |            |                  | TIME             | DRY                    | WET WET       | S A:             | MIND WIND               | OO<br>DE            |                      |             | STA.            |
|             | ATITUDE  | S          | LONGITUDE | DATE       | JD=              | (GMT)            | BUB                    | $\neg \neg$   | AK<br>SE         | _                       | U<br>O              |                      | -           | NAME/ID         |
| <u> </u>    |          | 980        | Z         | DAY        | MO ¥R            | ¥<br>E           | <u></u>                | <u>5</u>      | (mb) · · (dm)    | (deg) (m/s)             |                     | <b>E</b>             | _           | -               |
| 0 8 V / 8 C | 1807 48N | 00         | 55 0 SW1  | A 2 1 W    | 6 5 N            | 0153             | 6.4                    | 7             | 0 92             | 8007                    | 878                 | 7                    | -<br>2<br>0 | 7/5             |
|             |          | E SE       | ğ         | ١          | 66               |                  | 'Q                     | DATA LOCATION | NOIT             |                         | REMARKS             | S<br>S               |             |                 |
| TVDE & SN   |          | DATAON     |           |            |                  | Tape/Diskette ID | cette ID               | File          | File Name/Header | ler                     |                     |                      |             |                 |
|             |          | START DOWN | <br>      |            | <br>             |                  |                        |               |                  |                         |                     |                      |             |                 |
|             |          | AT DODE    |           |            |                  |                  |                        |               |                  |                         |                     |                      |             |                 |
| TEMP SN     |          | או הפריזה  | \         | ÷          |                  |                  |                        |               |                  | 1                       | MAX. DEPTH          | EPTH =               |             | ٤               |
| NS GNOO     |          | AT SUPFACE | ا<br>ا پې |            |                  |                  |                        |               |                  |                         |                     |                      |             |                 |
| No GV       | <u> </u> | PAR        |           | T-HUOR     | CHAM             | T                | <b>FRANSMISSOMETER</b> | SOMETER       | e<br>S           | Cleaned air bleed valve | leed val            | Ą                    |             |                 |
| POS TRIP    |          |            |           | 眉          | D MONITOR VALUES | VALUES           |                        | ·<br> <br>    | SAMPL            | SAMPLE BOTTLE           | SAMI                | SAMPLE BOTTLE NUMBER | LE NUM      |                 |
|             |          |            |           |            |                  |                  |                        |               | i i              | DAIA                    |                     |                      |             |                 |
|             |          |            |           | 1          | 1                |                  |                        | VAI INITY     | <b>W</b>         | SALINITY                | SAL<br>A            | <u> </u>             | 3           | WHIT'S<br>NGTR. |
| ,           | HESSURE  | 띮          | PRI TEMP. | EMP.       | SEC. 1EMP        | EM               | 30                     |               | \$               |                         |                     | ,                    |             |                 |
| 1 (7        |          |            |           |            |                  |                  |                        |               |                  |                         |                     |                      |             |                 |
| 2 40 (42    |          |            |           |            |                  |                  |                        |               |                  |                         |                     |                      |             |                 |
| 3 %         |          |            |           |            |                  |                  |                        |               |                  |                         |                     |                      |             |                 |
| 4 20        |          |            |           |            |                  |                  |                        |               |                  |                         |                     |                      | <u> </u>    |                 |
| 5 (0        |          |            |           |            |                  |                  |                        |               |                  |                         |                     |                      |             |                 |
| 0 9         |          |            |           |            |                  |                  |                        | ^             |                  |                         |                     |                      |             |                 |
| 7           |          |            |           |            |                  |                  |                        |               |                  |                         |                     |                      |             |                 |
| 80          |          |            |           |            |                  | `                |                        |               |                  | ^                       |                     |                      |             |                 |
| 6           |          |            |           |            |                  |                  |                        | ,             |                  |                         |                     |                      |             | T               |
| 10          |          |            |           |            |                  |                  |                        |               |                  | ,                       |                     |                      | +           | T               |
| -           |          |            | ,         |            |                  | †                |                        |               |                  |                         | +                   | +                    | 十           | T               |
| 12          |          |            |           |            |                  |                  |                        |               |                  |                         |                     |                      |             |                 |
|             | i        |            |           |            |                  |                  |                        |               |                  |                         |                     |                      |             |                 |

|                    |              |              |            |                              |                  |                 |                   |                       |                         |                          | 2                     | 5           |         |
|--------------------|--------------|--------------|------------|------------------------------|------------------|-----------------|-------------------|-----------------------|-------------------------|--------------------------|-----------------------|-------------|---------|
|                    |              |              | 1          | PROJECT & LEG                | ရွ               | _               |                   |                       | STATI                   | STATION DESIGNATION      | GNATION               | 2           |         |
| VESSEL             | <u> </u>     |              | <u> </u>   | スピル ergx                     | ٠.               | ,               | 2                 | 7001.0                |                         | ₹                        | 7                     | 1           |         |
| Alpha Heilx        |              |              |            |                              |                  |                 |                   |                       |                         | (tm                      | ı                     | <del></del> |         |
| CONSC              |              |              |            |                              | TWE              | )<br>DPX        | Ezante<br>Ed<br>K | STATS A∃              |                         | LOUD (a<br>YPE<br>FATHER |                       |             | STA.    |
| * LATITUDE         |              | LONGITUDE    | mL         | -                            |                  | BULB            | Т                 | N<br>IS               | $\neg$                  | ) .<br>) .               | ار-                   | ╀           | NAME/ID |
| DEG MIN            | SEC<br>DEC   | Z            | DAY        | <u>Σ</u>                     | ¥                | ်<br>(၁)        | GE<br>(j.         | on .                  |                         | i                        |                       |             |         |
| ø                  | 0.50N/6902.3 | 02.34        | 4W16A      | 3                            | 3795             | 6.9             |                   | 02421                 | 003                     | 777                      | 7                     |             | 1 Z     |
| e<br>E             | TIMES        |              | JD/TIME    | 99                           |                  | Õ               | DATA LOCATION     | NOL                   |                         | REMARKS                  | S                     |             |         |
|                    | NO ATAO      | 2            |            |                              | Tape/Diskette ID | ette ID         | File N            | File Name/Header      |                         | ļ                        |                       |             |         |
| No source          | START DOWN   | )<br>Zwo     |            | 1                            |                  |                 |                   | 4                     | 1                       |                          |                       |             |         |
|                    | ATOEDIA      |              |            |                              |                  |                 |                   |                       |                         |                          |                       |             |         |
| I EMP on           |              | \<br>- !     |            | -                            |                  |                 |                   |                       | 1                       | MAX. DEPTH               | =HTY                  |             | E       |
| NS QNO             | AT SUPFACE   |              |            |                              |                  |                 |                   |                       |                         |                          |                       |             |         |
| TEMP SN            | /<br>PA      |              | /<br>FLUOR | CHAM                         | $\overline{Z}$   | TRANSMISSOMETER | SOMETER           | Clean                 | Cleaned air bleed valve | eed valv                 | •                     |             |         |
| POS. TRIP<br>DEPTH |              |              | CONVERTE   | CTD CONVERTED MONITOR VALUES | VALUES           |                 |                   | SAMPLE BOTTLE<br>DATA | OTILE<br>A              | SAM                      | SAMPLE BOITILE NUMBER |             | ¥       |
|                    |              | 8            | GAT TO     | SFC TEMP                     | d.               | 8<br>           | SALINITY          | SALINITY              | ≥                       | SAL.                     | NUR                   | 콩           | WHITS   |
|                    | HESSORE      |              |            |                              |                  |                 |                   |                       |                         |                          |                       | -           |         |
|                    |              |              |            |                              | ,                |                 |                   |                       |                         |                          |                       |             |         |
| _                  |              | <u> </u>     |            |                              |                  |                 |                   |                       |                         | ,                        |                       |             |         |
| 3 20               |              | <br> <br>- - |            | ,                            |                  |                 |                   |                       |                         |                          |                       |             |         |
|                    |              |              |            |                              |                  |                 |                   |                       |                         |                          |                       |             |         |
| 1                  |              |              |            |                              |                  |                 |                   |                       |                         |                          |                       |             |         |
| 9                  |              |              |            |                              |                  |                 |                   |                       |                         |                          |                       |             |         |
| 7                  |              |              |            |                              |                  |                 |                   |                       |                         |                          |                       |             |         |
| 8                  |              |              |            |                              |                  |                 |                   |                       | ~                       |                          |                       |             |         |
| 6                  |              |              |            |                              | -                |                 |                   |                       |                         |                          |                       |             |         |
| 10                 |              |              |            |                              |                  |                 |                   |                       | ς.                      |                          |                       |             |         |
| =                  |              |              |            |                              |                  |                 |                   |                       |                         |                          |                       |             |         |
| 121                |              |              |            |                              |                  |                 |                   |                       |                         |                          |                       |             |         |
|                    |              |              |            |                              |                  |                 |                   |                       |                         |                          |                       |             |         |

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|             |              |   |                |                |                  | 10000           | 0.000         |                          |               |                        | -                    |        |                 |
|-------------|--------------|---|----------------|----------------|------------------|-----------------|---------------|--------------------------|---------------|------------------------|----------------------|--------|-----------------|
| VESSEL      |              |   | <u>&amp; 5</u> | PROJECT & LEG  | <b>o</b>         | 7               | 70%           | Ò                        | STATIO        | STATION DESIGNATION    | 2 A LONG             |        |                 |
| Alpha Helix |              |   |                |                |                  | -               | _             |                          |               | Ú1                     |                      |        |                 |
| OONSC       | <u> </u>     |   |                |                | Ų                | · }             | ænss:         | STATE A STATE            | CN            | OUD (am<br>34<br>ATHER | BOTTOM               | ····   | STA.            |
|             | I ATTILIDE 1 | LONGITUDE                                     | DATE           |                | (GMT)            |                 |               | SEV<br>SEV               | G<br>S        | WE<br>LVE              | DEPTH                | _      | NAME/ID         |
| ) Bu        | 030          | M   |                | H              | H MIN            | (0.)            | (am) (J.)     |                          | (m/s)         | •                      | E T                  | -1     | -               |
| 253 5750.9  | 10.97 N/6852 | 52.48W  | 1CA            | 0 G 9 %        | 153              | 6.1             | . 20          | / d   o                  | O             | 1                      | 1                    | 711    | 14/5            |
| CID         |              |   | JD/TIME        | 66             |                  | DAT             | DATA LOCATION | N                        | <u> </u>      | REMARKS                | ფ -                  |        |                 |
|             | NO ATAO      |   |                | <u> </u>       | Tape/Diskette ID | ette ID         | File Na       | File Name/Header         |               | Jala                   | ha                   | La     | `               |
| ודת         |              | ֡֝֟֝֟֝֟֝֟֝֟֝֟֝֓֓֓֓֓֓֓֓֓֟֟֝֟֟֓֓֓֟֟<br>֓֓֓֓֓֓֓֓ |                | !              | •                |                 |               | ٠                        | <u> </u>      | 1                      | 1100                 | Zing.  | 7               |
| PRESS SN    | SIAHI DOWN   | NWC   |                | <br>I          |                  |                 |               |                          |               |                        |                      | 0      |                 |
| TEMP SN     | AT DEPTH     | <br>돈   |                | L              |                  |                 |               |                          | <u>-1-</u>    |                        |                      | )      |                 |
| COND SN     | AT SURFACE   | -ACE  |                |                |                  |                 |               |                          | _             | MAX. DEPTH =           | #HL                  |        | =               |
| HEAD ON     |              |   | SOTH           | CHAM           |                  | THANSMISSOMETER | WETER         | Cleaned air bleed valve  | air ble       | ed valv                |                      |        | ,               |
| Ĺ           |              | 1   |                | MONITOR VALUES | ALUES            | 1               |               | SAMPLE BOTTLE            | THE           | SAMIP                  | SAMPLE BOTTLE NUMBER | LE NUN | BER             |
| 25<br>HI-80 |              | 5   |                |                |                  |                 | ,             | DATA                     |               |                        |                      |        |                 |
|             |              | 8   | 971            | SFC TEMP       | 9                | SALINITY        | ≱             | SALINITY                 |               | SAL.                   | REP.                 | 콩      | WHIT'S<br>NUTR. |
| 1.40        | HESSUE       |   |                |                |                  |                 |               |                          |               |                        |                      |        |                 |
| ╅           |              |   |                |                |                  |                 |               |                          |               |                        |                      |        |                 |
| 2           |              |   |                |                |                  |                 |               |                          |               |                        |                      |        |                 |
| 8           |              |   |                |                |                  |                 |               |                          |               |                        |                      |        |                 |
| 4           |              |   |                |                |                  |                 |               |                          |               |                        | -                    |        |                 |
| c)          |              | -   | -              | <br> -<br> -   |                  |                 |               |                          |               |                        | -                    |        |                 |
| 9           |              |   |                |                |                  |                 |               | ٠                        | -             |                        | ,                    |        |                 |
| 7           |              |   |                |                |                  |                 |               |                          |               |                        |                      |        |                 |
| 80          |              |   | <del>-</del>   |                |                  |                 |               |                          | _             |                        |                      |        |                 |
| 6           |              |   |                |                | +                |                 |               | `                        | +             | +-                     | +                    | T      |                 |
| 10          |              |   |                |                |                  |                 |               |                          | $\frac{1}{1}$ | -                      | +                    |        | T               |
| 11          |              |   |                |                |                  |                 |               |                          | +             | $\dagger$              |                      |        |                 |
| 12          |              |   |                |                |                  |                 |               |                          | -             | - ;                    |                      |        | 7               |
|             |              |   | ľ              |                |                  |                 | Show          | chays Themochine of 22 m | skine         | اج کی ا                | 7                    |        |                 |

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|                    |             |                |                                       |                              |                  |                 |               | 200              |                         |                     |                      | +   |                |
|--------------------|-------------|----------------|---------------------------------------|------------------------------|------------------|-----------------|---------------|------------------|-------------------------|---------------------|----------------------|-----|----------------|
| VESSEL             |             |                |                                       | PROJECT & LEG                | R LEG            |                 | 020           | 0.0              | STA                     | STATION DESIGNATION | GIGNATIO             | Z Z |                |
| Alpha Helix        |             |                | }                                     | פנטעט                        | <u>{</u>         | -<br> -<br> -   |               | -                | ,                       | 70                  | 1                    | _   |                |
|                    | · · · · · · | •              | · · · · · · · · · · · · · · · · · · · |                              | ·                |                 | 23_           | 3TA)             | <del></del>             | ms) Q               |                      |     |                |
| CONSC              |             |                |                                       |                              | TIME             | DRY             | WET           | S A:             | WIND WIND               | 33)<br>101          | EATIOM EATIOM        |     | STA.           |
| *   LATITUDE       | UDE         | LONGITUDE      | E DATE                                | TE JD=                       |                  |                 | _             | iv<br>Is         |                         | U<br>O              | ٩                    | +   | NAME/ID        |
| DEG                | 930 N       | G MIN          | DAY                                   | Q                            | T T              | ္ဌာ             | <u>ဒ</u><br>ည | +                | È                       |                     | 5                    | V   | MA             |
| ×                  | 163 N /6    | 8/6            | 1 M 3 8                               | A UG9                        | 30532            | 1101            | <u>``</u>     | 2034             | 0                       | 7                   | 0                    |     | X              |
| 63                 | TIMES       | SS             | JOYTIME                               | 66                           | Ł                | Δ               | DATA LOCATION | NOIL             |                         | REMARKS             | KS                   |     |                |
|                    | TAG         | NO ATAO        |                                       |                              | Tape/Diskette ID | kette ID        | File          | File Name/Header | ader                    |                     |                      |     |                |
| No B III           |             |                |                                       |                              |                  |                 |               |                  |                         |                     |                      |     |                |
| PRESS SN           | STA         | START DOWN     |                                       |                              |                  |                 | 1             |                  |                         |                     |                      |     |                |
| TEMP SN            | ATD         | AT DEPTH       |                                       |                              |                  |                 | 1             |                  |                         |                     |                      |     |                |
| No CINCO           | ATS         | AT SUPFACE     |                                       |                              | <del></del>      |                 |               |                  |                         | MAX. D              | MAX. DEPTH =         |     | E              |
|                    |             | 1              | BID                                   |                              | Cham             | THANSMISSOMETER | SOMETER       |                  | Cleaned air bleed valve | bleed va            | Ve                   |     |                |
| TEMP SN            |             |                |                                       |                              |                  |                 |               | JANA C           | TILL BOTTS              | SAN                 | SAMPLE BOTTLE NIMBER |     | E E            |
| POS. TRIP<br>DEPTH | ,           | S<br>L         | :TD CONVE                             | CTD CONVERTED MONITOR VALUES | OR VALUES        |                 |               | NAME:            | DATA                    | 5                   |                      |     |                |
|                    |             |                |                                       | 8                            | OF THE VIS       | N S             | SALINITY      | Ø                | SALINITY                | SAL                 | A ST                 | 3   | WHIT'S<br>NUTR |
|                    | HESSUR      |                | HE TEN                                | 8                            |                  | 5               |               |                  |                         |                     |                      |     |                |
| 1631               |             |                |                                       | +                            |                  |                 |               |                  |                         |                     |                      |     |                |
| 2 31.5             |             | -              |                                       |                              |                  |                 |               |                  |                         |                     |                      |     |                |
| 3 9///             |             |                |                                       |                              |                  |                 |               |                  |                         |                     |                      |     |                |
| 4 10,8             |             |                |                                       |                              |                  |                 |               |                  |                         |                     |                      |     |                |
| 5 /12.             | ļ           |                |                                       |                              |                  |                 |               |                  | }                       |                     |                      |     |                |
| ď                  |             |                |                                       |                              |                  |                 |               | _                |                         |                     |                      |     | T              |
| 0 1                |             |                |                                       |                              |                  |                 | ٠             |                  |                         |                     |                      |     |                |
|                    |             | <u> </u><br> - |                                       |                              |                  | a               |               |                  |                         |                     |                      |     |                |
| 80                 |             | \<br>          |                                       |                              |                  |                 |               |                  | d ·                     |                     |                      |     |                |
| 6                  |             |                |                                       |                              |                  |                 |               |                  |                         |                     |                      |     |                |
| 10                 |             |                | •                                     | -                            |                  |                 |               |                  |                         |                     |                      |     |                |
| 11                 |             |                |                                       |                              |                  |                 |               |                  |                         |                     |                      |     |                |
| 12                 | 75 75 75    |                |                                       |                              |                  |                 | 9.            |                  |                         |                     |                      |     |                |
|                    |             |                |                                       |                              |                  |                 |               |                  | ĵ.                      |                     |                      |     |                |

WHIT'S NUTR. Ę NAME/ID SAMPLE BOTTLE NUMBER 동 **BOTTOM** DEPTH (E) STATION DESIGNATIO MAX. DEPTH = E S Cleaned air bleed valve REMARKS SAL SAMPLE BOTTLE 0 MIND SALINITY 200 DATA File Name/Header SEA STATE VISIBILITY 0 DATA LOCATION (mp) 100 FFESSURE THANSMISSOMETER WET BULB 4 SALINITY Tape/Diskette ID TIME (GMT) CTD CONVERTED MONITOR VALUES Ŧ SEC. TEMP PROJECT & LEG ACLIAN. HXPH 222 δ DATE JD= DAY HELLOR JD/TIME PPR TEMP. LONGITUDE START DOWN AT SUPFACE T-PAR AT DEPTH DATA ON TIMES HESSER z LATITUDE Ĭ 88438 DEPTH DEPTH 26.9 P.00 8 Alpha Helix TYPE & SN £ PRESS SN NS QNOO TEMP SN TEMP SN VESSEL SONSC CAST POS. 10 12 <del>-</del> **6** ហ 80 6

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|  |            |           |                  |                |                  | -                |               |                             | CTATIC         | CTATION DECICIONATION         | MATION               | ,           |                 |
|--|------------|-----------|------------------|----------------|------------------|------------------|---------------|-----------------------------|----------------|-------------------------------|----------------------|-------------|-----------------|
| VESSEL.                                |            |           | E E              | HXP10 A LEG    |                  |                  | cal           | m                           |                |                               | Z                    | A           |                 |
| 1                                      |            |           | DATE JD=         | t              | TIME             | DÀY              | WET WET BULB  | SEA STATE VISIBILITY ON WAR | WIND<br>SPD.   | CLOUD (amt)<br>YPE<br>MEATHER | BOTTOM<br>DEPTH      | <del></del> | STA.<br>NAME/ID |
| 8 <del>7</del>                         | 980        |           | DAY MD           | g •••          | ¥ %              | <u>ي ر</u>       | (c) (mp)      | . 17                        | (m/s)          | • 7                           | (m)                  | 7           | ASN.            |
| O D F                                  | N O        | <b>-</b>  | <u> </u>         | 200            | 2                | 7<br>7<br>8<br>8 | DATA LOCATION |                             |                | REMARKS                       | ျှ                   | -           |                 |
| TYPE & SN                              | DATA ON    |           |                  | <u> </u>       | Tape/Diskette ID | tte ID           | File N        | File Name/Header            | <del></del> -l |                               |                      |             |                 |
| PRESS SN                               | START DOWN | NWO       |                  |                |                  |                  |               |                             |                |                               |                      |             |                 |
| TEMP SN                                | ATDEPTH    | Ŧ         |                  |                |                  |                  |               |                             |                |                               |                      |             |                 |
| COND SN                                | ATSURFACE  | ¥Ğ.       |                  |                |                  |                  |               |                             | _              | MAX. DEPTH =                  | PTH=                 |             | ε               |
| TEMP SN                                | EA C       |           | RUCH             | ChIAM          |                  | TRANSMISSOMETER  | OMETER        | Cleaned                     | air ble        | Cleaned air bleed valve       |                      |             |                 |
| POS. TRIP<br>DEPTH                     |            |           | CTD CONVERTED MC | MONITOR VALUES | TOES             |                  |               | SAMPLE BOTTLE<br>DATA       | ПЕ             | SAMP                          | SAMPLE BOTTLE NUMBER | NE NUN      | BER             |
| · · · · · · · · · · · · · · · · · · ·  | HESSURE    | PRI TEMP. | MP.              | SEC. TEMP      | ٩                | SALI             | SALINITY      | SALINITY                    |                | SAL.                          | REDN                 | SE.         | WHITS           |
| 7,04                                   |            |           |                  |                |                  |                  |               |                             |                |                               |                      |             |                 |
|  |            |           |                  |                |                  |                  |               |                             |                | -                             |                      |             |                 |
| \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |            | 1         |                  |                |                  | !                |               |                             |                |                               | 1                    |             |                 |
| 7.4.                                   |            |           |                  |                |                  |                  |               |                             |                | -                             | +                    |             |                 |
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| 6 6 10                                 |            |           |                  |                |                  |                  |               |                             | -              |                               | 1                    |             |                 |
| 1                                      |            |           | <u>.</u>         |                |                  |                  |               |                             |                |                               |                      |             |                 |
| , 6                                    |            |           |                  | į              |                  |                  |               |                             |                |                               |                      |             |                 |
| ,                                      |            |           |                  |                |                  |                  |               |                             | ٠,             |                               |                      |             |                 |
| 7 7                                    |            |           |                  |                | i                | ,                | ,             |                             |                |                               |                      |             |                 |
| 11 9.7                                 |            |           |                  |                |                  |                  |               | *                           |                | +                             |                      |             |                 |
| 12                                     |            | -         |                  |                |                  |                  |               |                             |                | $\dashv$                      | -                    |             | ٦               |
| 131                                    |            |           |                  |                |                  | 60               |               |                             |                |                               |                      |             |                 |

WHITS Ε NAME/ID REP. STA. SAMPLE BOTTLE NUMBER 동 ВОТТОМ DEPTH STATION DESIGNATION MAX. DEPTH = RETER REMARKS WE WE CLOUD (amt)
METATINES
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METATINES Cleaned air bleed valve SAL (s/m) 0 SAMPLE BOTTLE WIND DIPN. 0 6 SALINITY DATA (deg) File Name/Header YTIJIBISIV SEA STATE  $\omega$ DATA LOCATION (mp) FFESSURE THANSMISSOMETER WET BULB ပ် SALINITY Tape/Diskette ID ORY BUB ତ୍ର TIME (GMT) CTD CONVERTED MONITOR VALUES £ SEC. TEMP PROJECT & LEG CHAM LLK CHEXH ₹ DATE JD-DA√ TENOR T **JOYTIME** PFILTEMP. LONGITUDE ₹ START DOWN 169 AS AT SUPFACE T PAR AT DEPTH DATA ON 9 TIMES HESSUE z 1 2 LATITUDE Z 8247486 THE DEPTH 8 Alpha Helix TYPE & SN E PRESS SN COND SN TEMP SN TEMP SN CAST VESSEL 83 0 10 12 (1)

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|             |          |            |               |              |                |                  |                        |               | 38               | 100                     | A 1000 A 1000 A     |              |                      |                 |
|-------------|----------|------------|---------------|--------------|----------------|------------------|------------------------|---------------|------------------|-------------------------|---------------------|--------------|----------------------|-----------------|
| VESSEL      |          |            |               | PROJECT & LE | PROJECT & LEG  |                  |                        |               |                  | ST                      | STATION DESIGNATION | SIGNAT       | NON X                | S.              |
| Alpha Heilx |          |            |               |              |                |                  | 7                      | <b>3</b> 40%  | 3TAT∂<br>YTU     | <u> </u>                | (Ims) Ol            | HEB          |                      |                 |
| CAST        | ATM IOF  | ONGILIDE   |               | DATE JD=     |                | TIME (GMT)       | DRY                    | WET BULB      | SEA S            | WIND WI                 | SPD CLOS            | [A3W         | BOTTOM<br>DEPTH N    | STA.<br>NAME/ID |
| 88          | $\vdash$ | DEG MIN    | $\top$        |              |                | N M              | (၁့)                   | (°C) (mb)     | · •              | (deg) (m                | (m/s).              | <b>E</b>     | <u></u>              | 1.1             |
| 2000        | N 25 8   | 15569      | /m 08         | 1 AUG        | 6 6            | <u>2</u>         | 5.6                    | 72            | 13/              | 900                     | 7                   | <u>*</u>     | 2                    | <u>Y</u>        |
| e e         | F        | 83         | JOYTIME       |              | 66             |                  | 2                      | DATA LOCATION | NOL              |                         | REM                 | REMARKS      |                      |                 |
| TYPE & SN   | DA       | DATA ON    |               |              | <u>a</u>       | Tape/Diskette ID | ofte ID                | File N        | File Name/Header | ader                    |                     |              |                      |                 |
| PRESS SN    | STA      | START DOWN |               |              |                |                  |                        |               |                  | .                       |                     |              |                      |                 |
| TEMP SN     | ATI      | AT DEPTH   |               |              |                |                  |                        |               |                  |                         |                     |              |                      |                 |
| CONDSN      | ATS      | AT SUPFACE | İ             |              |                |                  |                        |               |                  |                         | MAX.                | MAX. DEPTH = |                      | E               |
| TEMPON      |          | P&a        | T Ruos        |              | CHIMM          |                  | <b>THANSMISSOMETER</b> | OMETER        | <u> </u>         | Cleaned air bleed valve | bleed v             | aive         |                      |                 |
| POS. IPPP   |          |            | CTD CONVERIED |              | MONITOR VALUES | San              |                        |               | SAME             | SAMPLE BOTTLE<br>DATA   |                     | WPLE BC      | SAMPLE BOTTLE NUMBER | WBER            |
|             | HESSUFE  |            | PRI TEMP.     |              | SEC. TEMP      |                  | SAL                    | SALINITY      | Ŝ                | SALINITY                | SAL                 | NUR          | 중                    | WHITS           |
| -           |          |            |               |              |                |                  |                        |               |                  |                         |                     | .            |                      |                 |
| 2           |          |            |               |              |                |                  |                        |               |                  |                         |                     |              |                      |                 |
| 3           |          |            |               | _            |                |                  |                        |               |                  |                         |                     |              |                      |                 |
| 4           |          | -          |               | ·            |                |                  |                        |               |                  |                         |                     |              |                      |                 |
| 2           |          |            |               | _            |                | $\dagger$        |                        |               |                  |                         |                     |              |                      |                 |
| 9           |          | <u> </u>   |               |              |                | +                |                        |               | _                |                         |                     |              |                      |                 |
| 7           |          | -          |               |              |                |                  |                        |               |                  |                         |                     | _            |                      |                 |
| 8           |          | -          |               |              |                | +-               |                        |               |                  | •                       |                     |              |                      |                 |
| 6           |          |            | -             |              |                |                  |                        |               | į                |                         | ٠                   |              |                      |                 |
| 0 :         |          | <u> </u>   |               |              |                |                  |                        |               |                  |                         |                     |              |                      |                 |
| - ;         |          |            |               |              |                |                  |                        |               | ·                |                         | _                   |              |                      |                 |
| 121         |          |            |               |              | e<br>e         |                  |                        | 979           |                  |                         |                     |              |                      |                 |

5 PE 9 WHIT'S NUTR. Ε NAME/ID STA. SAMPLE BOTTLE NUMBER 동 BOTTOM STATION DESIGNATION (E MAX. DEPTH = £ WIND WIND CLOUD (AMI) REMARKS Cleaned air bleed valve SAL (m/s) 7 SAMPLE BOTTLE SALINITY DATA (deg) File Name/Header **3** S. SEA STATE VISIBILITY <u>40</u> DATA LOCATION (dm) 0 þ HEAVISMISSOMETER O WET SALINITY S 0 Tape/Diskette ID PEG BUEB ¥ £ TIME (GMT) CTD CONVERTED MONITOR VALUES 161908170W1440GOB171 SEC. TEMP PROJECT & LEG - CHIAM HX<del>210</del> 222 ₹ DATE JD= DAY - FEDOR **JD/TIME** PPL TEMP. LONGITUDE Z START DOWN AT SUPFACE AT DEPTH DATA ON 7. A. 8 TIMES 0.97 HESSUE 945 N LATITUDE Z DEPTH DEPTH 图 RA 577 Alpha Helix TYPE & SN 20 30 23 B PRESS SN TEMP SN COND SN TEMP SN VESSEL SONSC CAST POS. 7 က 5 8 0

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|                    |             |             |              |             |                              |                  |                 |                    | 100                   | 2007                    |                       | ;<br>-               |        |                 |
|--------------------|-------------|-------------|--------------|-------------|------------------------------|------------------|-----------------|--------------------|-----------------------|-------------------------|-----------------------|----------------------|--------|-----------------|
| VESSEL             |             |             |              | <u>a. :</u> | PROJECT & LEG                | ့<br>ဗွ          |                 | 071                | 3.000                 | STAT                    | STATION DESIGNATION   | GNATION S            | 010    | 3               |
| Alpha Helix        |             |             |              |             | HAZTT OFF                    |                  | -<br>           |                    |                       |                         |                       |                      | _      |                 |
|                    |             |             |              |             |                              |                  |                 | _ ∋ <del>u</del> n | <b>BTAT</b>           |                         | ms) Q<br>ABH          |                      | ·····  |                 |
| CAST               |             |             |              |             | . (                          | E S              | . 28.           | WESS               |                       |                         | UOJ:<br>OYPE<br>TAENT | BOTTOM               |        | STA.<br>NAME/ID |
|                    | LATITUDE    | <u>S</u> -  | LONGITUDE    | L           | F                            | <-               |                 | Т                  | 3 3                   | ┿                       |                       | 1                    | -      |                 |
| 990                | MN          | 8           | Z            | ¥<br>O¥     | \$                           | Ŧ                | ₹               |                    | •                     | $\blacksquare$          |                       |                      |        | -               |
| 79057              | 15.31 N/69  |             | 08.59W16A    | w / 1C A    | <u>n</u>                     | 1728             | 0<br>2          |                    | 203 16                | 9 6 7                   | 7                     |                      | 1037   | 20 2            |
| E                  | ]           | TIMES       | <br> <br>  3 | )D/TIME     | 66                           |                  | DA              | DATA LOCATION      | NOL                   |                         | REMARKS               |                      | ,      |                 |
| 3                  | -           |             |              |             |                              | Tano/Nickette ID |                 | <u>a</u>           | File Name/Header      | <u>.</u>                | Rus                   | _ (                  | 75     | 10              |
| TYPE & SN          |             | DATA ON     |              |             |                              | aper Disk        |                 | -                  |                       |                         |                       | 7                    |        |                 |
| PRESS SN           | <del></del> | START DOWN  | MN.          |             | <br>                         |                  |                 |                    |                       | 1                       |                       |                      |        |                 |
| TEMP SN            |             | AT DEPTH    |              |             |                              |                  |                 | 1                  |                       |                         |                       |                      |        |                 |
|                    |             | AT CHIDEADE | ا<br>بر      |             | <u> </u>                     |                  |                 | j<br>1             |                       | -                       | MAX. DEPTH =          | EPTH =               |        | ٤               |
| NS ONO             | 3L          |             |              |             |                              |                  |                 |                    |                       | 10 4                    | 40% 600               | ١                    |        |                 |
| TEMP SN            |             | 4           | 7            | HUOR        | <b>★</b>                     | <u> </u>         | HEANSWISSOMETER | OWETER             | Clea                  | Cleaned air Dieed Valve | Jeed Var              |                      |        |                 |
| POS. TRIP<br>DEPTH |             |             | }            | ONVERTE     | CTD CONVERTED MONITOR VALUES | VALUES           |                 |                    | SAMPLE BOTTLE<br>DATA | ВОТПЕ<br>ГА             | SAM                   | SAMPLE BOTTLE NUMBER | MON 31 | <u> </u>        |
|                    |             |             |              |             |                              |                  | -               |                    |                       |                         |                       |                      |        | WHITS           |
|                    | HESSUFE     | Æ           | PRI TEMP.    | EMP.        | SEC. TEMP                    | J.WE             | SAL             | SALINITY           | SALINITY              | إِل                     | SAL                   | AT .                 | 岩      | NETA.           |
| 1 72               |             |             |              |             |                              |                  |                 |                    |                       |                         |                       |                      |        |                 |
| 2 30               |             |             |              |             |                              |                  |                 |                    |                       |                         |                       |                      |        |                 |
| <del>  `</del>     |             |             |              |             |                              |                  |                 |                    |                       |                         |                       |                      |        |                 |
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| ╈                  |             |             |              |             |                              |                  |                 |                    |                       |                         |                       | ·                    |        | ,               |
| ╌                  |             |             |              |             |                              |                  |                 |                    |                       |                         |                       |                      |        |                 |
|                    |             |             |              |             |                              |                  | į               |                    |                       | ٠.                      |                       |                      |        |                 |
| 0/6                |             |             |              |             |                              |                  |                 |                    |                       |                         |                       |                      |        |                 |
| 10                 |             | -           |              |             |                              |                  |                 |                    |                       | ,                       |                       |                      |        |                 |
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|                    | *           |             |              |             |                              |                  |                 |                    |                       |                         |                       |                      |        |                 |

WHITS Ε RES. NAME/ID STA. SAMPLE BOTTLE NUMBER 2 STATION DESIGNATION <  $\phi E 2$ **BOTTOM** E MAX. DEPTH = £ REMARKS Cleaned air bleed valve WEATHER TYPE WEATHER SAL MIND (m/s) Š. 440 SAMPLE BOTTLE MIND SALINITY DATA (ded) File Name/Header °0.5m SEA STATE YILIBISIV DATA LOCATION (mb) ESSONEE JAHANSMISSOMETER 000 WET SALINITY Tape/Diskette ID OAY BUB ပ္ GMT) CTD CONVERTED MONITOR VALUES Ŧ SEC. TEMP PROJECT & LEG 572151351N16945158W16101010188 **L**ehtam HX<del>210</del> 222 66 ₹ DATE JD= DAY PEECH JD/TIME PRI TEMP. LONGITUDE START DOWN AT SUPFACE TA TA AT DEPTH DATA ON 8 TIMES HESSUR LATITUDE S 等 田田 8 Bet4 Alpha Helix TYPE & SN g PRESS SN COND SN TEMP SN TEMP SN VESSEL SONSC CAST P.S. 12 <del>-</del> N (5) ហ 9 00

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| VESSEL      |               |            |           | <u>R</u>  | PROJECT & LEG                         | ၂၀               |                 | ,             |                               | S                       | STATION DESIGNATION  | ESIGNA          | NOF.                 |               |               |
| Alpha Helix |               |            |           | X         | HXPTO 222                             |                  | _               | 00)           | ٠.<br>د                       |                         | 7                    | 200             |                      |               |               |
|             |               |            |           |           | · · · · · · · · · · · · · · · · · · · | TIME             | ORY<br>S        | ME S          | HESSURE<br>EASTATE<br>YTURIEN | QNIM                    | MN ON Camping States | <b>ABHTAS</b> W | BOTTOM               | STA.          | ا<br>الم      |
|             | LATITUDE      | <u>S</u>   | -         | L         | †;                                    |                  |                 | $\neg$        | S                             | (dea)                   |                      | ١.              | 3                    |               |               |
| DEC         | NW.           | <b>S</b>   |           | DAY -     | Į o                                   |                  |                 | 1             |                               | _                       |                      | 1               | -                    |               |               |
| 273571      | S.27 N17003.8 | 003.       |           | 3W 16 A U | 69                                    | 2255             | <u>6</u> -3     | 7             | 2 4 6                         | 1651                    |                      | 7               | 3(12)                | 3             | $\frac{1}{2}$ |
| CID         | TIMES         | <b>s</b>   | JD/TIME   | Æ         | <u> </u>                              |                  | à               | DATA LOCATION | ATION                         |                         | RBA                  | REMARKS         |                      |               |               |
| TYPE & SN   | DATAON        | NO         |           |           |                                       | Tape/Diskette ID | ette ID         | File          | File Name/Header              | eader                   |                      | ļ               |                      |               |               |
| PRESS SN    | STAR          | START DOWN |           |           |                                       |                  |                 | }             |                               |                         |                      |                 |                      |               |               |
| TEMP SN     | AT DEPTH      | EPTH :     |           |           |                                       | ٠                |                 |               |                               |                         |                      |                 |                      |               |               |
| No CINC     | ATSL          | AT SUPFACE |           |           | L                                     |                  |                 |               |                               |                         | MAX                  | МАХ. DEРТН      | #                    |               | ٤             |
|             |               | awa .      | T BLINE   | 9         | CAMA                                  | T                | TRANSMISSOMETER | SOMETER       |                               | Cleaned air bleed valve | ir bleed             | valve           |                      | •             |               |
| POS. TRIP   |               |            | E SO      | VERTEDA   | CTD CONVERTED MONITOR VALUES          | ALUES            |                 |               | 3                             | SAMPLE BOTTLE<br>DATA   |                      | AMPLE           | SAMPLE BOTTLE NUMBER | KUMBE         | æ             |
|             |               |            |           |           |                                       |                  |                 |               |                               |                         |                      | -               | -                    | -             |               |
| -           | HESSUE        |            | PPIL TEMP | o.'       | SEC. TEMP                             | · dw             | SAI             | SALINITY      |                               | SALINITY                | SAL                  | ALCTA.          | 동                    |               | MHT.s<br>TEDN |
| -           |               |            |           |           |                                       |                  |                 |               |                               |                         |                      | -               |                      | -             |               |
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| 12          |               |            |           | -         |                                       |                  |                 |               |                               |                         | -                    | 100             | -                    |               | 1             |
|             |               |            |           |           |                                       |                  |                 |               |                               |                         |                      |                 |                      |               |               |

WHITS E NAME/ID 1045004 SAMPLE BOTTLE NUMBER WIND COOD (AMIN) 동 STATION DESIGNATION MAX. DEPTH = NCTR. REMARKS Cleaned air bleed valve SAL SAMPLE BOTTLE WIND DIPN. SALINITY DATA (deg) File Name/Header STATS A36 YTIJIŞIRIV DATA LOCATION THANSMISSOMETER WET BULB SALINITY OFIY BULB Tape/Diskette 10 GMT) 78W/7AUG9 3045 CTD CONVERTED MOMITOR VALUES £ No 66 SEC. TEMP PROJECT & LEG COMM HXPH 222 ₹ DATE JD= DAY HUOR JD/TIME PPI. TEMP LONGITUDE START DOWN AT SUPFACE 94 571 B.76 NOT 176 46 7 AT DEPTH DATA ON TIMES HESSER LATITUDE Z 8 Alpha Helix TYPE & SN E PRESS SN SOND SN TEMP SN TEMP SN VESSEL SNSC SNSC CAST SS 9 = 12 8 (7) S 9 1 0 00

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WHIT'S NUTR E NAME/ID 124 STA. SAMPLE BOTTLE NUMBER P 동 BOTTOM STATION DESIGNATION Ξ MAX. DEPTH = RES. ଯ REMARKS Cleaned air bleed valve WIND CLOUD (amt) YPPE WEATHER 1/2 Ŗ (m/s) 18 SAMPLE BOTTLE O MND SALINITY DATA File Name/Header SEA STATE VISIBILITY DATA LOCATION (dm) **ESSONE** 100 TRANSMISSOMETER WET BULB SALINITY Tape/Diskette ID BULB ₽ GMT) CTD CONVERTED MONITOR VALUES £ SEC. TEMP PROJECT & LEG CHAM HX<del>210</del> JZZ 03 W 2 N G 0 B ⊈ £ DATE JD= Z FLUOR **JD/TIME** PPI. TEMP. LONGITUDE START DOWN AT SURFACE AT DEPTH <u>₩</u> DATA ON No. TIMES 8 **PRESSURE** Z LATITUDE Z 59 9 ES/

Alpha Helix TYPE & SN PHESS SN COND SN TEMP SN TEMP SN VESSEL SONSC CAST POS. N S

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WHIT'S NOTE: NAME/ID STA. SAMPLE BOTTLE NUMBER MIND OCION (SIMILA) (SPD. OCION (SPD. OCION (SIMILA) (SPD. OCION (SPD 중 STATION DESIGNATION MAX. DEPTH = <u>E</u> REMARKS Cleaned air bleed valve SAL. SAMPLE BOTTLE WIND URBN DATA SALINITY (deg) File Name/Header 1.2m SEA STATE VISIBILITY DATA LOCATION (dm) Ø **34**088344 TRANSMISSOMETER WET BUGB SALINITY Tape/Diskette ID ORY BULB 墨 GMT) CITD CONVERTED MONITOR VALUES SEC. TEMP PROJECT & LEG 60 W/ 1/2 A UG9 \$0 1 Chiam HXPH JJJ Œ ₽ DATE JD= DAY FUGH JD/TIME PHI. TEMP. LONGITUDE START DOWN AT SURFACE AT DEPTH PAT. DATA ON 12/N/C TIMES HESSUE ATTIODE HLABO 8 Ē Alpha Helix TYPE & SN £ PRESS SN COND SN TEMP SN TEMP SN VESSEL CAST 8 10 12 N က S 9 œ 0

WHIT'S NUTR Ε NAME/ID STA. SAMPLE BOTTLE NUMBER 울 WIND WIND OF E BOTTOM OF SPD. CC 7 WE BETTOM STATION DESIGNATION MAX. DEPTH = EEE S REMARKS Cleaned air bleed valve SAL. (m/s) SAMPLE BOTTLE SALINITY DATA (deg) File Name/Header 11/ SEA STATE VISIBILITY DATA LOCATION (mb) Ö BHCSSTHE THANSMISSOMETER WET SALINITY Tape/Diskette ID ORY BUB ပ္ GMT) CTD CONVERTED MONITOR VALUES 808 80 NA 4/W 03. SEC. TEMP PROJECT & LEG CHAM HX210 JZZ Œ DATE JD= HUOR HOOR **JD/TIME** PRI. TEMP. LONGITUDE START DOWN 96 N / 40 L/4 AT SURFACE AT DEPTH PA F DATA ON TIMES HESSLE LATITUDE 291615191/31 OEPTH THE 30/2 EG. Alpha Helix TYPE & SN 48 £ PRESS SN COND SN TEMP SN TEMP SN CAST VESSEL POS. = 12 9 Ŋ 8 0

WHIT'S NUTR E NAME/ID SAMPLE BOTTLE NUMBER تَح WIND OUR BOTTOM

SPD. CL CT MEATHER

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(a) 유 STATION DESIGNATION MAX. DEPTH = <u>E</u> REMARKS Cleaned air bleed valve SAL. SAMPLE BOTTLE 0 WIND DIPN. SALINITY (deg) DATA 14.222 292 1.00 File Name/Header VISIBILITY SEA STATE DATA LOCATION (mb) 0 0 **THANSMISSOMETER** WET SUEB SALINITY Tape/Diskette ID ORY BULB <u>ဂ</u> H M GMT) CTD CONVERTED MONITOR VALUES SEC. TEMP PROJECT & LEG 12 A U G 9 20 ChIAM HX<del>219</del> 222 Œ S DATE JD= DAY AUDH HODH JD/TIME PRI. TEMP. LONGITUDE START DOWN AT SURFACE AT DEPTH TA E DATA ON 9 TIMES HESSUR N N LATITUDE Z S PEPTH DEPTH 20.02 Alpha Helix TYPE & SN £ PRESS SN COND SN TEMP SN TEMP SN VESSEL CAST 166 8 12 9 8 S

WHITS STA. NAME/ID ٤ 575 NET N SAMPLE BOTTLE NUMBER SPD. CCOUD (amp) 고 년 STATION DESIGNATION MAX. DEPTH = NCIR. ٦ ۵ REMARKS Cleaned air bleed valve SAL. 10/0/2 SAMPLE BOTTLE WIND SALINITY DATA SE SE (deg) File Name/Header SEA STATE VISIBILITY DATA LOCATION (mb) N HEESSURE - THANSMISSOMETER WET BULB 0 ပ္ SALINITY Tape/Diskette ID PEULB BULB <u>ဂ</u> (GMT) CTD CONVERTED MONITOR VALUES SEC. TEMP PROJECT & LEG HXXTO AZZ CHAM 28 W28 A U G 9 3 /4 Date JD= Ş DAY HUOH JD/TIME PRI. TEMP. LONGITUDE START DOWN AT SURFACE A PAR AT DEPTH DATA ON 26 N / 40 TIMES HESSUR LATITUDE 1985121001 32.0 Alpha Helix TYPE & SN £ PRESS SN COND SN TEMP SN TEMP SN CAST VESSEL 8 0 \_ 12 S 9 œ σ

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WHIT'S NUTR. Ε NAME/ID 3752 SAMPLE BOTTLE NUMBER WIND GENTLER SPD. CLOUD (AMIN) 줌 STATION DESIGNATION MAX. DEPTH = SEE. REMARKS Cleaned air bleed valve SAL. SAMPLE BOTTLE DATA WIND DIPIN. SALINITY (deg) File Name/Header N SEA STATE VISIBILITY DATA LOCATION (mp) O **BESSONE** Ø THANSMISSOMETER WET BULB ပ္ SALINITY Tape/Diskette ID DAY BULB ပ္ပ ¥ E (GMT) CTD CONVERTED MONITOR VALUES SEC. TEMP PROJECT & LEG CHIAM HX810 222 1X W ( 7 A U G 9 3 Œ 8 DATE JD= DAY 1 FUOR JD/TIME PRI TEMP. LONGITUDE 56 53. 30 N 120 030 START DOWN AT SURFACE AT DEPTH PA TA DATA ON TIMES HESSER 2016 30.2 LATITUDE 85 × <u>₹</u> TRIP DEPTH 9 Alpha Helix 2,5 TYPE & SN E PRESS SN COND SN TEMP SN TEMP SN VESSEL CAST 200 P.S. 10 12 ෆ S 9 œ 0

WHITS E NAME/ID NETH. 5665 SAMPLE BOTTLE NUMBER SPD. CLOUD (amt)
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SPD. C 돐 STATION DESIGNATION MAX. DEPTH = <u>K</u> REMARKS Cleaned air bleed valve SAL. SAMPLE BOTTLE 14x 222 300 OF WIND SALINITY DATA (deg) File Name/Header 4 VISIBILITY SEA STATE DATA LOCATION (mp) THANSMISSOMETER WET BULB <u>ဂ</u> SALINITY ORY BUB Tape/Diskette ID ¥ E (GMT) 25 5/ 2 0 0 0 A 2/ W 7 9. CTD CONVERTED MONITOR VALUES SEC. TEMP PROJECT & LEG CHIAM HXPH 222 ₽ DATE JD= DAY HUOH JD/TIME PRI. TEMP. LONGITUDE 12 N 16952 START DOWN AT SURFACE AT DEPTH T T DATA ON 9 HESSITE LATITUDE ₹ 300 56 46 OEPTH DEPTH 92 970 10.6 800 603 400 Alpha Helix TYPE & SN g PRESS SN COND SN TEMP SN TEMP SN CAST **VESSEL** 8 10 12 S 9 8 0