

PRELIMINARY REPORT AND INDEX  
OF  
NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA  
SOUTHTOW EXPEDITION

LEG 3

R/V WASHINGTON

Valparaiso, Chile (1 April 1972)  
To  
Antofagasta, Chile (21 April 1972)

Chief Scientist, Leg 3 - R. L. Wisner

Cruise Coordinator - J. Mudie

Airgun Tech. - D. McKinney

Computer Tech. - M. Butler

Resident Marine Tech. - J. Wells

Data Processed by - U. Albright, O. McConnell, I. Bustillos

Geological Data Center

T. E. Chase - Curator

S. M. Smith - Data Processing Coordinator

Scripps Institution of Oceanography

La Jolla, California

August 10, 1972

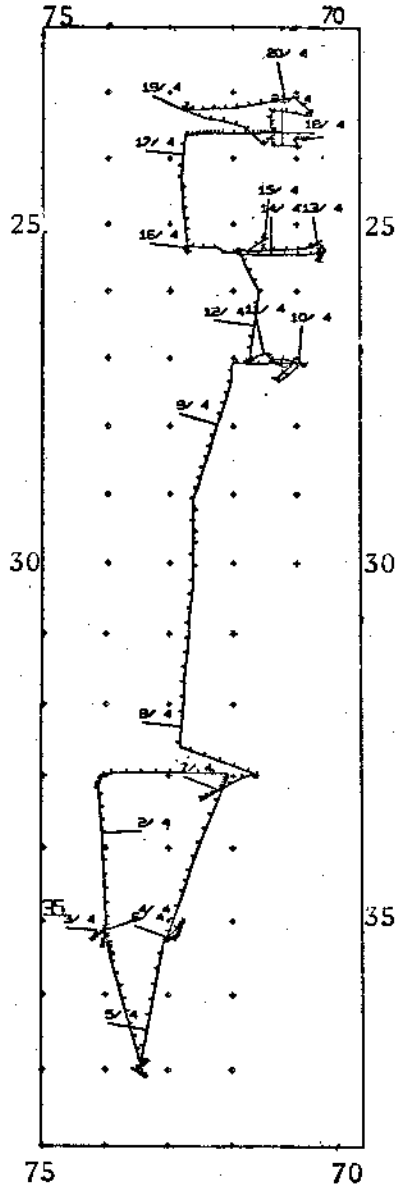
## Preliminary Report and Index of Navigation, Depth, Magnetic and Subbottom Profiler Data

### Contents:

- Index Chart** - gives track of cruise leg and boundaries of depth compilation plots (see below).
- Track Charts** - annotated with dates (day/month) and hour ticks. The scale (.3"/deg. long) is the same as the index charts of previous SIO cruises published as Report IMR TR-25.
- Profiles** - Depth and magnetic anomaly vs. distance. Dates (day/month) and positions of major course changes (greater than 30 degrees) are annotated. Sections of track having subbottom profiler (airgun) records have a solid black line along the bottom of the profile.

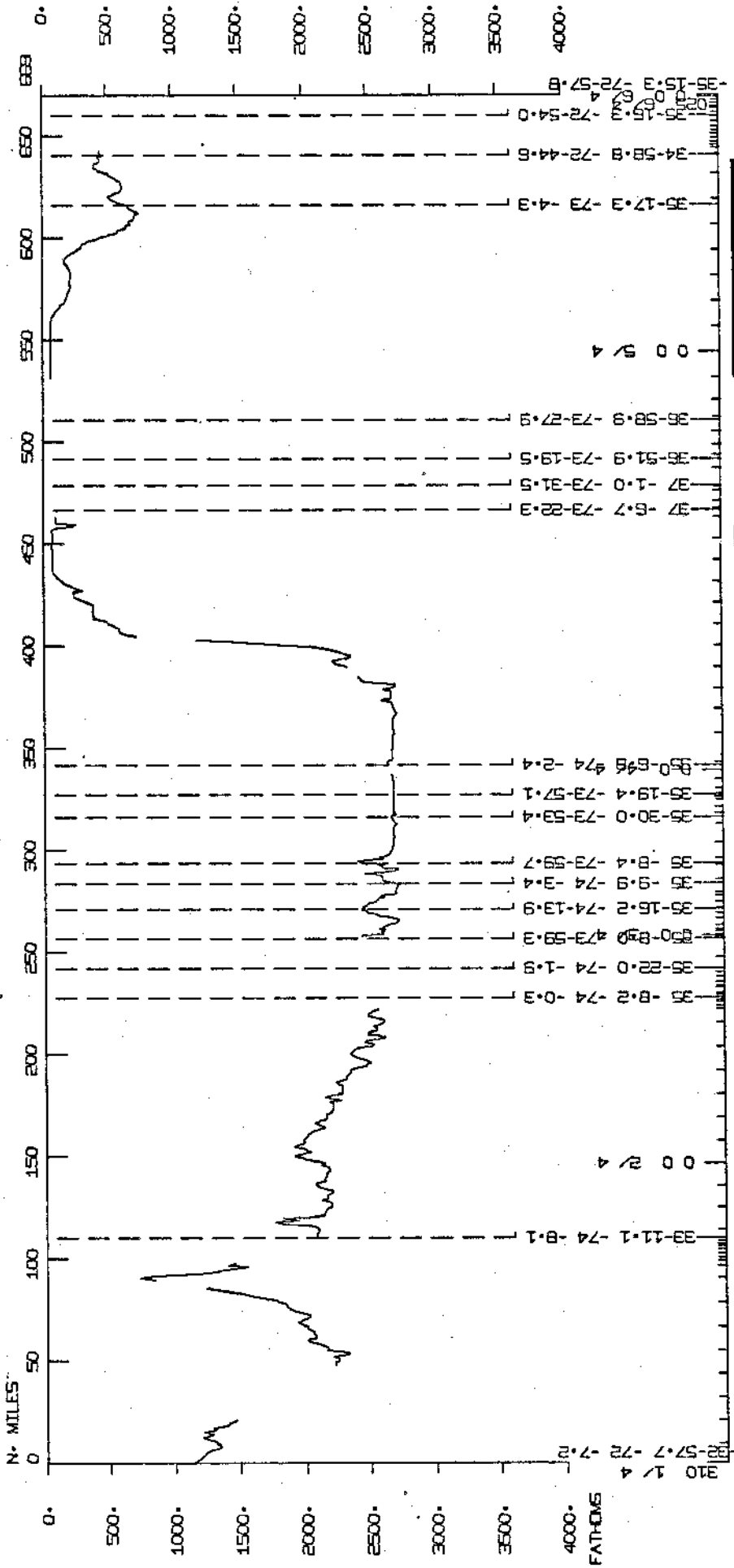
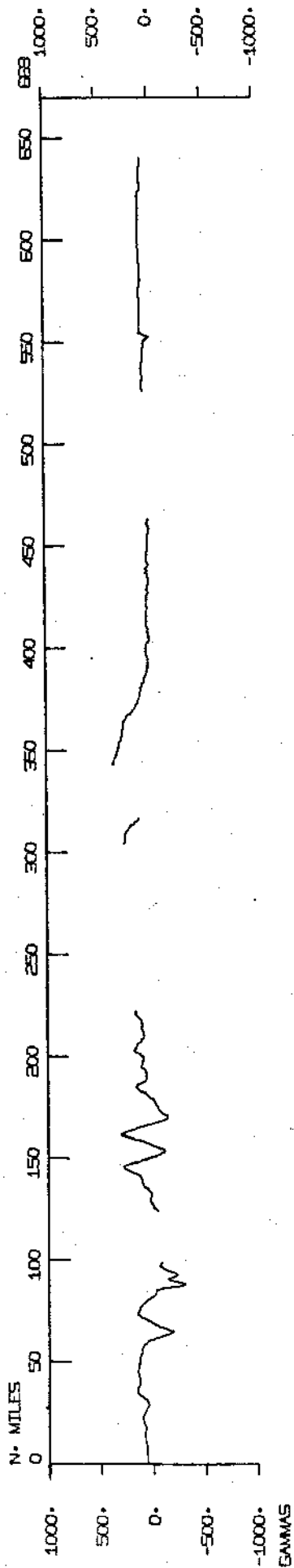
For information on the availability and reproduction costs of data in the following forms, contact T.E. Chase, Curator, Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92037 (714-453-2000, ext. 1534):

1. Navigation listing of times and positions of course and speed changes, fixes and drift velocity.
2. Depth compilation plots - in fathoms (assumed sound velocity of 800 fm./sec.) at approximately 1 mile spacing, plotted at 4"/degree with standard U.S. Navy Oceanographic Office BC series boundaries (see index chart).
3. Plots of magnetic anomaly profiles along track-map scale = 1.2"/degree; anomaly scale between 15°N and 15°S latitude = 500 gamma/inch; anomaly scale north of 15°N and south of 15°S = 1000 gamma/inch) from values retrieved at approximately 1 mile spacing and regional field removed using the 1965 IGRF.
4. Card Decks of navigation, depth and magnetics (for specific formats, contact S.M. Smith, Geological Data Center).
5. S.I.O. Sample Index - list of beginning and end times and positions of all underway records as well as all other samples (geology, biology, physical oceanography, etc.) collected on the cruise leg.
6. Microfilm or Xerox copies of:
  - a. Echosounder records - 12 and 3.5 kHz frequency
  - b. Subbottom profiler records (airgun)
  - c. Magnetometer records
  - d. Underway Data Log



SOUTH-TOW LEG-3 track plot

# SOUTHWEST LEG 3



310 1 4  
78-57.7 -72 -7.0

00 2 4

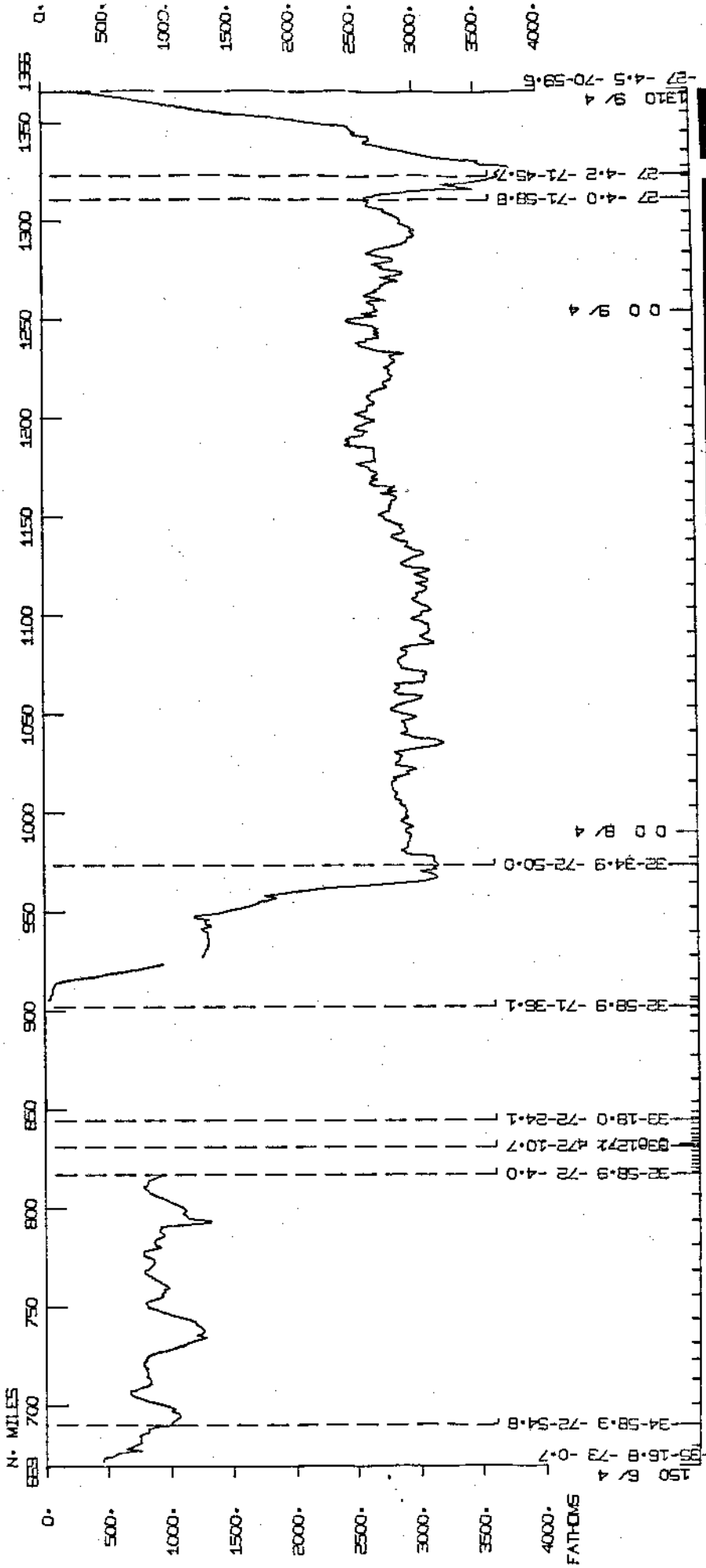
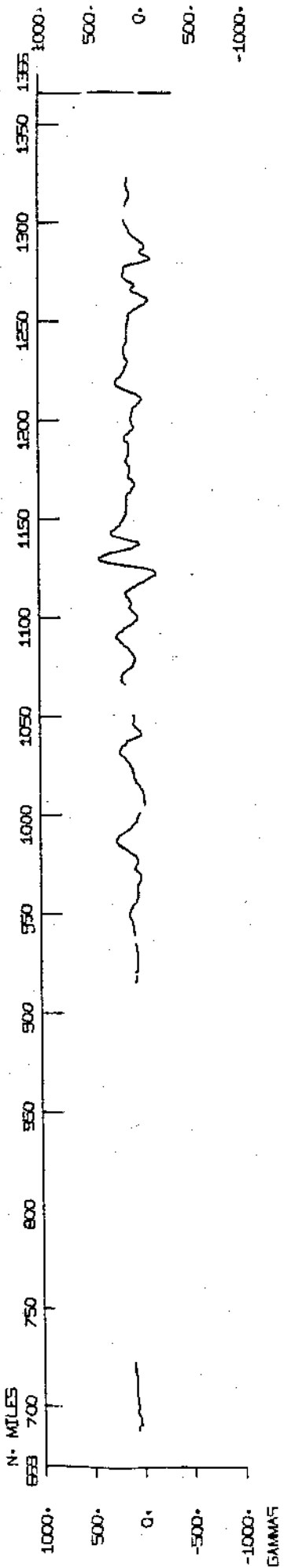
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35-5.9 -74 -3.4  
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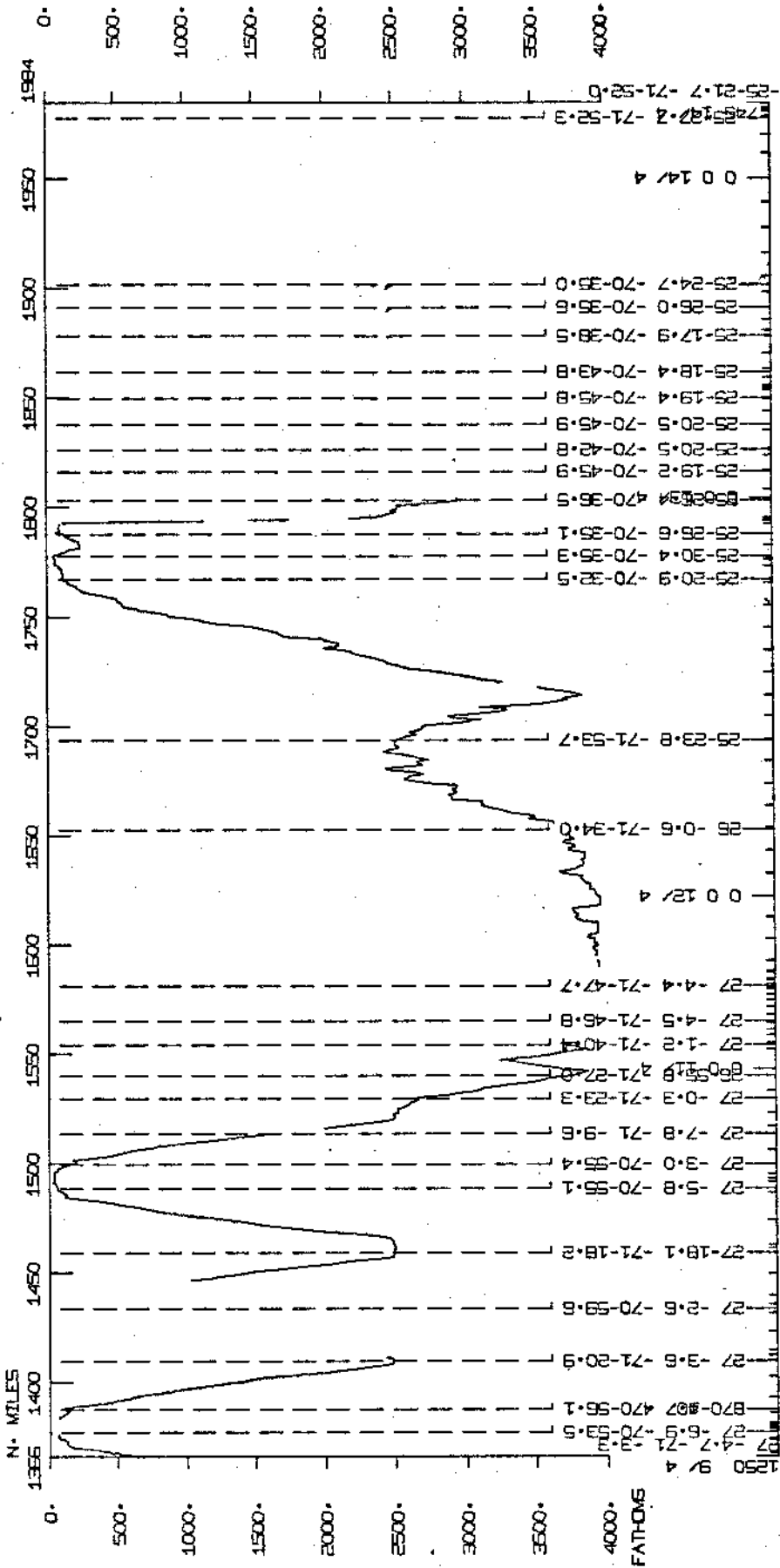
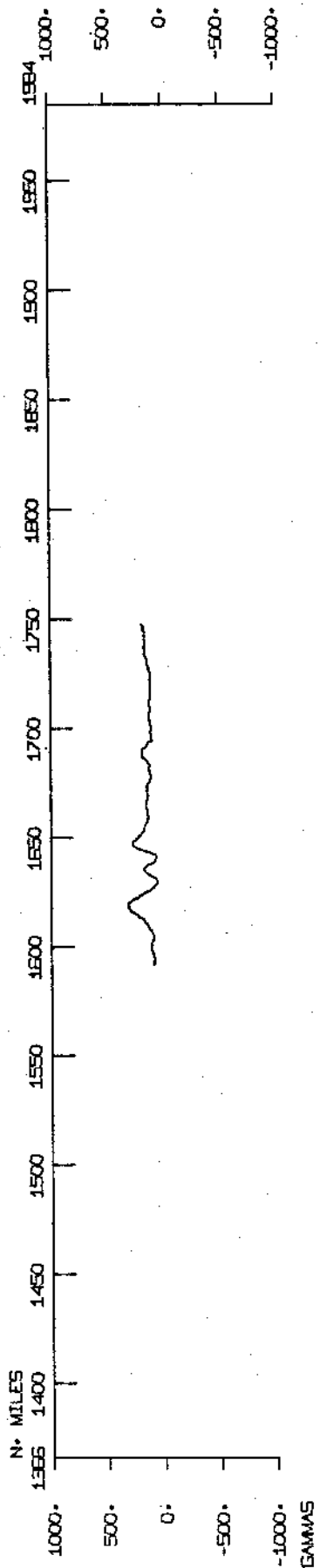
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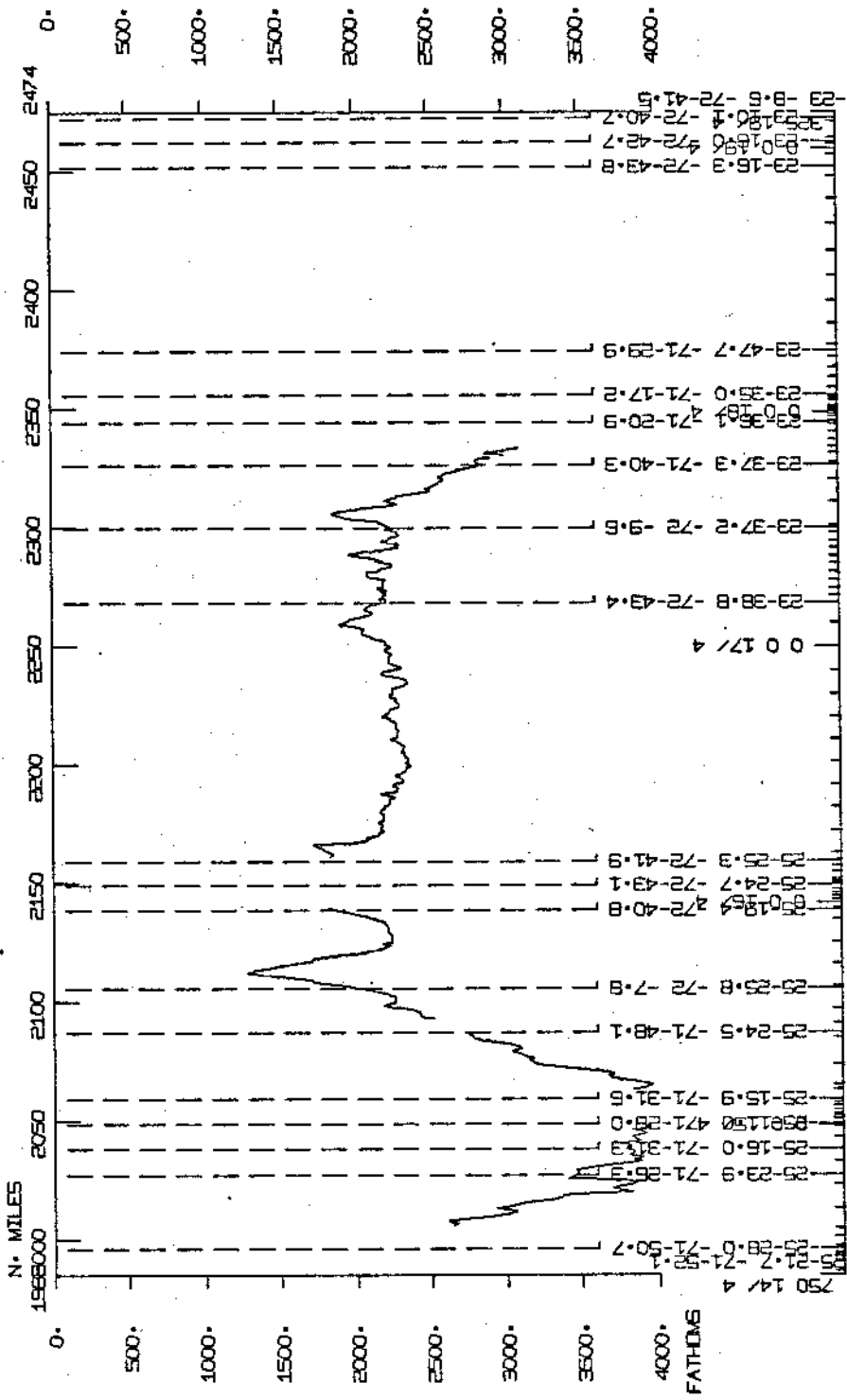
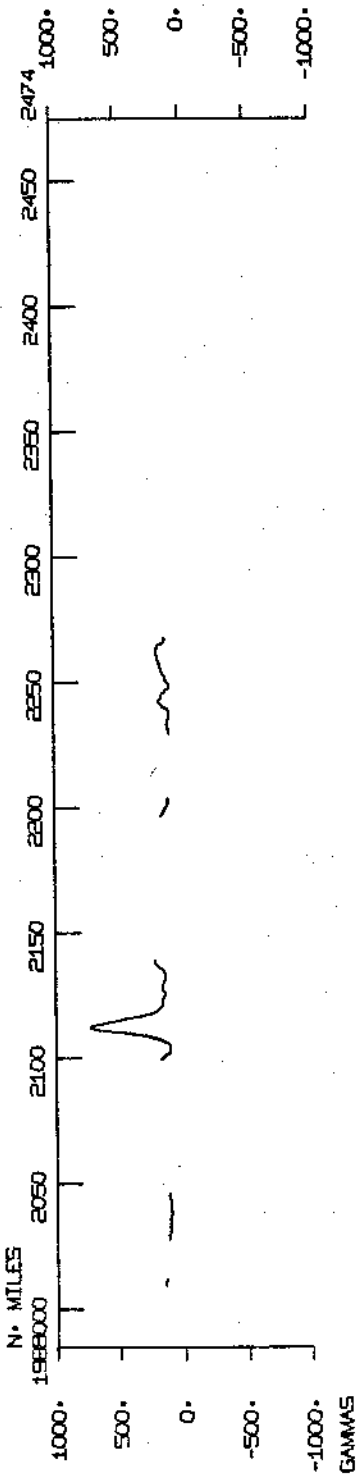
SOUTHWELL ET AL



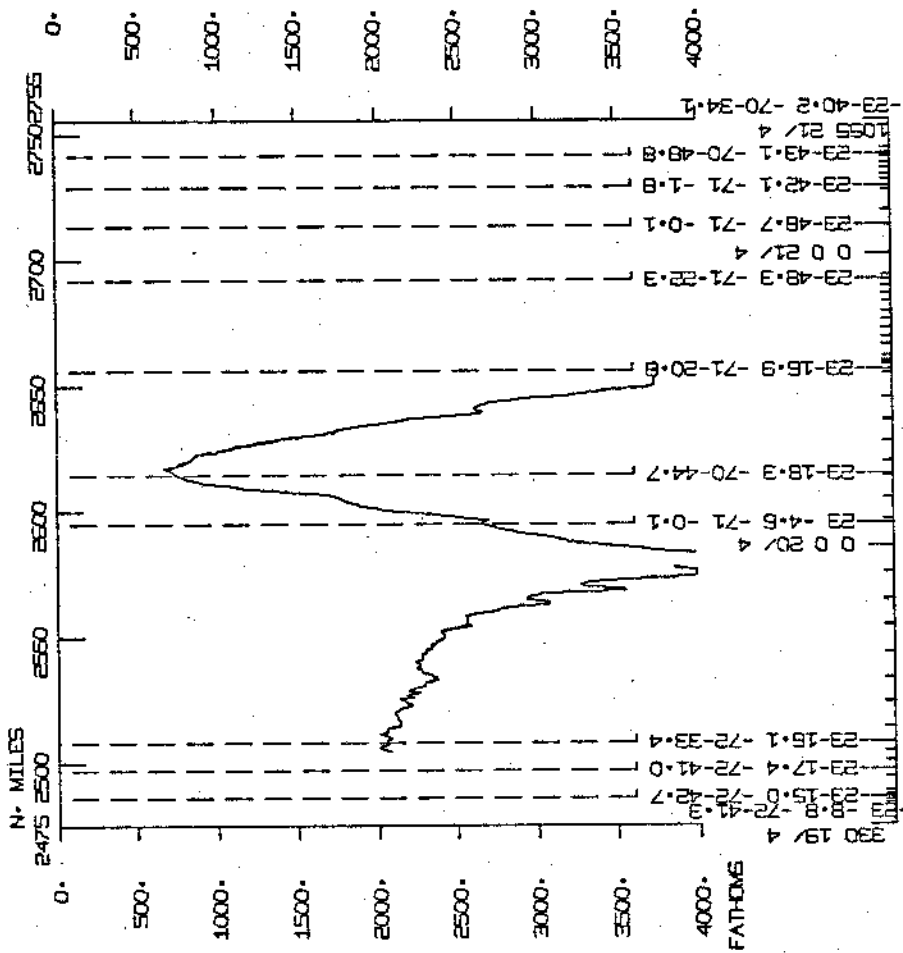
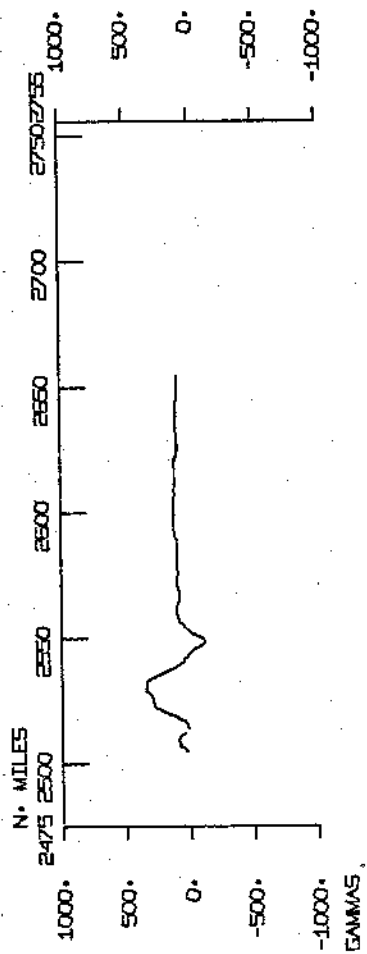
# SOUTH TOW LEG 3



SOUTHOW LEG 3



# SOUTHWEST LEG 3





| TIME | DATE   | TIME | TZ  | SAMP | SEQ. DISP | LONG. | LAT.    | CRUISE     |
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| 600  | 21     | 472  |     | ASNU | AWH 23    | 429S  | 70 548W | S SOTW03WT |

END SAMPLE INDEX

NON-SID PROGRAMS-PROCESSOR J.L.COATSWORTH EXT. 2846

AEROSOLS--A.W.HOGAN S.U.N.Y.

\*\*\* AIR SAMPLE \*\*\*

| TIME<br>GMT | DATE<br>D.M.Y. | TIME<br>TZ | SAMP<br>LOC | SAMP<br>LOC CODE | SAMPLE IDENT. | SEQ. DISP<br>NUM. CODE | LAT. | LONG.   | CRUISE<br>LEG-SHIP |
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| 1200        | 6              | 472        |             | ASNU             | AEROSUL       | AWH 33                 | 442S | 72 246W | S SOTW03WT         |
| 1800        | 6              | 472        |             | ASNU             | AEROSUL       | AWH 33                 | 18S  | 72 55W  | S SOTW03WT         |
| 1200        | 7              | 472        |             | ASNU             | AEROSUL       | AWH 32                 | 586S | 71 422W | S SOTW03WT         |
| 1800        | 7              | 472        |             | ASNU             | AEROSUL       | AWH 32                 | 561S | 71 463W | S SOTW03WT         |
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| 600         | 8              | 472        |             | ASNU             | AEROSUL       | AWH 31                 | 33S  | 72 414W | S SOTW03WT         |
| 1200        | 8              | 472        |             | ASNU             | AEROSUL       | AWH 29                 | 518S | 72 363W | S SOTW03WT         |
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| 600         | 16             | 472        |             | ASNU             | AEROSUL       | AWH 25                 | 252S | 72 415W | S SOTW03WT         |
| 1200        | 16             | 472        |             | ASNU             | AEROSUL       | AWH 25                 | 261S | 72 419W | S SOTW03WT         |
| 1800        | 16             | 472        |             | ASNU             | AEROSUL       | AWH 24                 | 545S | 72 446W | S SOTW03WT         |

INVERTEBRATE BIOLOGY-CURATOR ABRAHAM FLEMINGER (EXT. 1131)

\*\*\* CLOSING NET \*\*\*

| TIME<br>GMT | DATE<br>O.M.Y. | TZ<br>LOC | SAMP<br>LOC CODE | SAMPLE IDENT. | SEQ. DISP.<br>NUM. CODE | LAT. | LONG.   | CRUISE<br>LEG-SHIP |
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| 1244        | 1              | 472       | CN8G B           | BONGO 3-1     | MIC 33                  | 85   | 74 34W  | S SOTW03WT         |
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| 700         | 2              | 472       | CN8G B           | BONGO 3-2     | MIC 35                  | 31S  | 73 594W | S SOTW03WT         |
| 200         | 3              | 472       | CN8G E           | BONGO 3-2     | MIC 35                  | 96S  | 74 28W  | S SOTW03WT         |
| 1600        | 5              | 472       | CN8G B           | BONGO 3-3     | MIC 35                  | 140S | 72 518W | S SOTW03WT         |
| 231         | 6              | 472       | CN8G E           | BONGO 3-3     | MIC 35                  | 170S | 73 18W  | S SOTW03WT         |
| 1631        | 6              | 472       | CN8G B           | BONGO 3-4     | MIC 32                  | 590S | 72 41W  | S SOTW03WT         |
| 721         | 7              | 472       | CN8G E           | BONGO 3-4     | MIC 33                  | 201S | 72 292W | S SOTW03WT         |

DATA COLLECTION AND PROCESSING GROUP-F.WILKES (EXT.1140)

\*\*\* HYDROGRAPHIC CAST \*\*\*

| TIME<br>GMT | DATE<br>D.M.Y. | TZ<br>LOC | SAMP<br>LOC CODE | SAMPLE IDENT.   | SEQ. DISP.<br>NUM. CODE | LAT. | LONG.   | CRUISE<br>LEG-SHIP |
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| 115         | 6              | 472       | HCNA             | HYDRO CAST 3-1  | DCP 35                  | 157S | 72 593W | S SOTW03WT         |
| 315         | 7              | 472       | HCNA             | HYDRO CAST 3-2  | DCP 33                  | 147S | 72 172W | S SOTW03WT         |
| 1250        | 11             | 472       | HCNA             | HYDRO CAST 3-3  | DCP 27                  | 36S  | 71 456W | S SOTW03WT         |
| 1640        | 11             | 472       | HCNA             | HYDRO CAST 3-4  | DCP 27                  | 32S  | 71 438W | S SOTW03WT         |
| 1804        | 11             | 472       | HCNA             | HYDRO CAST 3-5  | DCP 27                  | 32S  | 71 435W | S SOTW03WT         |
| 2300        | 14             | 472       | HCNA             | HYDRO CAST 3-6  | DCP 25                  | 104S | 71 289W | S SOTW03WT         |
| 311         | 15             | 472       | HCNA             | HYDRO CAST 3-7  | DCP 25                  | 120S | 71 286W | S SOTW03WT         |
| 47          | 16             | 472       | HCNA             | HYDRO CAST 3-8  | DCP 25                  | 22S  | 72 415W | S SOTW03WT         |
| 332         | 16             | 472       | HCNA             | HYDRO CAST 3-9  | DCP 25                  | 240S | 72 408W | S SOTW03WT         |
| 125         | 18             | 472       | HCNA             | HYDRO CAST 3-10 | DCP 23                  | 369S | 71 184W | S SOTW03WT         |
| 523         | 18             | 472       | HCNA             | HYDRO CAST 3-11 | DCP 23                  | 356S | 71 173W | S SOTW03WT         |

L.C.LEWIN (EXT.1072)

\*\*\* OPEN NET \*\*\*

| TIME<br>GMT | DATE<br>O.M.Y. | TZ<br>LOC | SAMP<br>LOC CODE | SAMPLE IDENT. | SEQ. DISP.<br>NUM. CODE | LAT. | LONG.  | CRUISE<br>LEG-SHIP |
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| 0           | 3              | 472       | ONIM B           | CHENG TOW 3-1 | LCL 35                  | 82S  | 74 7W  | S SOTW03WT         |
| 100         | 3              | 472       | ONIM E           | CHENG TOW 3-1 | LCL 35                  | 86S  | 74 12W | S SOTW03WT         |

| TIME | DATE   | TIME | TZ  | SAMP                   | SEQ. DISP   | CRUISE             |
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|      |        |      |     |                        | LAT.        |                    |
| 2315 | 15     | 472  |     | CAFC B FVC MOVIE 3-217 | RAS 25 198S | 72 415W S SOTW03WT |
| 1419 | 16     | 472  |     | CAFC E FVC MOVIE 3-217 | RAS 25 250S | 72 419W S SOTW03WT |
| 2325 | 15     | 472  |     | CAFS B FVC STILL 3-218 | RAS 25 200S | 72 415W S SOTW03WT |
| 1333 | 16     | 472  |     | CAFS E FVC STILL 3-218 | RAS 25 248S | 72 420W S SOTW03WT |
| 2342 | 15     | 472  |     | CAFC B FVC MOVIE 3-219 | RAS 25 204S | 72 415W S SOTW03WT |
| 1433 | 16     | 472  |     | CAFC E FVC MOVIE 3-219 | RAS 25 254S | 72 418W S SOTW03WT |
| 2350 | 15     | 472  |     | CAFS B FVC STILL 3-220 | RAS 25 208S | 72 415W S SOTW03WT |
| 1354 | 16     | 472  |     | CAFS E FVC STILL 3-220 | RAS 25 255S | 72 419W S SOTW03WT |
| 2231 | 17     | 472  |     | CAFS B FVC STILL 3-221 | RAS 23 356S | 71 188W S SOTW03WT |
| 1217 | 18     | 472  |     | CAFS E FVC STILL 3-221 | RAS 23 402S | 71 235W S SOTW03WT |
| 2247 | 17     | 472  |     | CAFS B FVC STILL 3-222 | RAS 23 358S | 71 188W S SOTW03WT |
| 1232 | 18     | 472  |     | CAFS E FVC STILL 3-222 | RAS 23 412S | 71 239W S SOTW03WT |
| 14   | 19     | 472  |     | CAFC B FVC MOVIE 3-223 | RAS 23 178S | 72 421W S SOTW03WT |
| 1358 | 19     | 472  |     | CAFC E FVC MOVIE 3-223 | RAS 23 174S | 72 410W S SOTW03WT |
| 30   | 19     | 472  |     | CAFC B FVC MOVIE 3-224 | RAS 23 180S | 72 422W S SOTW03WT |
| 1436 | 19     | 472  |     | CAFC E FVC MOVIE 3-224 | RAS 23 170S | 72 404W S SOTW03WT |
| 134  | 19     | 472  |     | CAFS B FVC STILL 3-225 | RAS 23 157S | 72 428W S SOTW03WT |
| 1202 | 19     | 472  |     | CAFS E FVC STILL 3-225 | RAS 23 156S | 72 414W S SOTW03WT |
| 56   | 19     | 472  |     | CAFS B FVC STILL 3-226 | RAS 23 167S | 72 425W S SOTW03WT |
| 1224 | 19     | 472  |     | CAFS E FVC STILL 3-226 | RAS 23 165S | 72 411W S SOTW03WT |

\*\*\* CURRENT MEASUREMENT \*\*\*

| TIME | DATE   | TIME | TZ  | SAMP                    | SEQ. DISP   | CRUISE             |
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|      |        |      |     | SAMPLE IDENT.           | CRDE        | LONG.              |
|      |        |      |     |                         | LAT.        |                    |
| 2305 | 20     | 472  |     | CMAB B CURRENT MT 3-227 | RAS 23 482S | 71 217W S SOTW03WT |
| 1200 | 28     | 472  |     | CMAB E CURRENT MT 3-227 | RAS 23 457S | 71 260W S SOTW03WT |
| 145  | 21     | 472  |     | CMAB B CURRENT MT 3-228 | RAS 23 505S | 70 576W S SOTW03WT |
| 1230 | 28     | 472  |     | CMAB E CURRENT MT 3-228 | RAS 23 455S | 71 216W S SOTW03WT |

FREE VEHICLE CAMERA-CURATOR RICHARD SCHWARTZLOSE EXT. 1143

\*\*\* CAMERA \*\*\*

| TIME<br>GMT | DATE<br>D.M.Y. | TIME<br>TZ | SAMP<br>LOC | IDENT.          | SEQ. DISP<br>NUM. CODE | LAT. | LONG. | CRUISE<br>LEG-SHIP |
|-------------|----------------|------------|-------------|-----------------|------------------------|------|-------|--------------------|
| 1054        | 2              | 472        | CAFS B      | FVC STILL 3-201 | RAS 35                 | 84S  | 74    | 8W S SOTW03WT      |
| 900         | 4              | 472        | CAFS E      | FVC STILL 3-201 | RAS 36                 | 332S | 73    | 336W S SOTW03WT    |
| 1105        | 2              | 472        | CAFS B      | FVC STILL 3-202 | RAS 35                 | 85S  | 74    | 9W S SOTW03WT      |
| 1240        | 4              | 472        | CAFS E      | FVC STILL 3-202 | RAS 37                 | 62S  | 73    | 226W S SOTW03WT    |
| 826         | 9              | 472        | CAFS B      | FVC STILL 3-203 | RAS 27                 | 47S  | 71    | 440W S SOTW03WT    |
| 100         | 11             | 472        | CAFS E      | FVC STILL 3-203 | RAS 27                 | 1S   | 71    | 394W S SOTW03WT    |
| 530         | 9              | 472        | CAFS B      | FVSC 3-2        | RAS 27                 | 50S  | 71    | 595W S SOTW03WT    |
| 215         | 11             | 472        | CAFS E      | FVSC 3-2        | RAS 27                 | 24S  | 71    | 412W S SOTW03WT    |
| 836         | 9              | 472        | CAFS B      | FVC STILL 3-204 | RAS 27                 | 48S  | 71    | 441W S SOTW03WT    |
| 130         | 11             | 472        | CAFS E      | FVC STILL 3-204 | RAS 27                 | 14S  | 71    | 404W S SOTW03WT    |
| 845         | 9              | 472        | CAFS B      | FVC STILL 3-205 | RAS 27                 | 51S  | 71    | 442W S SOTW03WT    |
| 215         | 11             | 472        | CAFS E      | FVC STILL 3-205 | RAS 27                 | 24S  | 71    | 412W S SOTW03WT    |
| 2356        | 10             | 472        | CAFC B      | FVC MOVIE 3-206 | RAS 26                 | 562S | 71    | 290W S SOTW03WT    |
| 700         | 11             | 472        | CAFC E      | FVC MOVIE 3-206 | RAS 27                 | 24S  | 71    | 404W S SOTW03WT    |
| 308         | 11             | 472        | CAFC B      | FVC MOVIE 3-207 | RAS 27                 | 40S  | 71    | 434W S SOTW03WT    |
| 1035        | 11             | 472        | CAFC E      | FVC MOVIE 3-207 | RAS 27                 | 39S  | 71    | 463W S SOTW03WT    |
| 39          | 13             | 472        | CAFS B      | FVC STILL 3-208 | RAS 25                 | 266S | 70    | 401W S SOTW03WT    |
| 1630        | 13             | 472        | CAFS E      | FVC STILL 3-208 | RAS 25                 | 175S | 70    | 362W S SOTW03WT    |
| 122         | 13             | 472        | CAFC B      | FVC MOVIE 3-209 | RAS 25                 | 231S | 70    | 432W S SOTW03WT    |
| 615         | 13             | 472        | CAFC E      | FVC MOVIE 3-209 | RAS 25                 | 189S | 70    | 407W S SOTW03WT    |
| 220         | 13             | 472        | CAFS B      | FVC STILL 3-210 | RAS 25                 | 204S | 70    | 457W S SOTW03WT    |
| 1230        | 13             | 472        | CAFS E      | FVC STILL 3-210 | RAS 25                 | 198S | 70    | 472W S SOTW03WT    |
| 330         | 13             | 472        | CAFC B      | FVC MOVIE 3-211 | RAS 25                 | 203S | 70    | 448W S SOTW03WT    |
| 1200        | 13             | 472        | CAFC E      | FVC MOVIE 3-211 | RAS 25                 | 192S | 70    | 459W S SOTW03WT    |
| 358         | 14             | 472        | CAFS B      | FVC STILL 3-212 | RAS 25                 | 256S | 71    | 528W S SOTW03WT    |
| 1700        | 15             | 472        | CAFS E      | FVC STILL 3-212 | RAS 25                 | 244S | 71    | 518W S SOTW03WT    |
| 434         | 14             | 472        | CAFS B      | FVC STILL 3-213 | RAS 25                 | 249S | 71    | 526W S SOTW03WT    |
| 1650        | 15             | 472        | CAFS E      | FVC STILL 3-213 | RAS 25                 | 240S | 71    | 516W S SOTW03WT    |
| 455         | 14             | 472        | CAFC B      | FVC MOVIE 3-214 | RAS 25                 | 245S | 71    | 525W S SOTW03WT    |
| 1630        | 15             | 472        | CAFC E      | FVC MOVIE 3-214 | RAS 25                 | 235S | 71    | 514W S SOTW03WT    |
| 520         | 14             | 472        | CAFC B      | FVC MOVIE 3-215 | RAS 25                 | 241S | 71    | 524W S SOTW03WT    |
| 1645        | 15             | 472        | CAFC E      | FVC MOVIE 3-215 | RAS 25                 | 238S | 71    | 515W S SOTW03WT    |

BATHYTHERMOGRAPHS - CURATOR MARGARET RUBINSON (EXT.1135)

\*\*\* BATHYTHERMOGRAPH \*\*\*

| TIME<br>GMT | DATE<br>D.M.Y. | TIME<br>TZ | SAMP<br>LOC | LOC<br>CODE | SAMP<br>IDENT. | SEQ.<br>NUM. | DISP<br>CODE | LAT. | LONG. | CRUISE<br>LEG-SHIP |
|-------------|----------------|------------|-------------|-------------|----------------|--------------|--------------|------|-------|--------------------|
| 1754        | 2              | 472        |             | BTX         | XBT 3-1        | 8TS          | 35           | 181S | 74    | 13W S SOTW03WT     |
| 2344        | 2              | 472        |             | BTX         | XBT 3-2        | 8TS          | 35           | 82S  | 74    | 6W S SOTW03WT      |
| 56          | 4              | 472        |             | BTX         | XBT 3-3        | 8TS          | 35           | 70S  | 74    | 24W S SOTW03WT     |
| 2000        | 5              | 472        |             | BTX         | XBT 3-4        | 8TS          | 35           | 125S | 72    | 523W S SOTW03WT    |
| 1730        | 6              | 472        |             | BTX         | XBT 3-5        | 8TS          | 33           | 9S   | 72    | 50W S SOTW03WT     |
| 1834        | 7              | 472        |             | BTX         | XBT 3-6        | 8TS          | 32           | 535S | 71    | 538W S SOTW03WT    |
| 800         | 8              | 472        |             | BTX         | XBT 3-7        | 8TS          | 30           | 385S | 72    | 393W S SOTW03WT    |
| 100         | 10             | 472        |             | BTX         | XBT 3-8        | 8TS          | 27           | 43S  | 71    | 26W S SOTW03WT     |
| 200         | 11             | 472        |             | BTX         | XBT 3-9        | 8TS          | 27           | 21S  | 71    | 408W S SOTW03WT    |
| 1300        | 11             | 472        |             | BTX         | XBT 3-10       | 8TS          | 27           | 35S  | 71    | 455W S SOTW03WT    |
| 1800        | 12             | 472        |             | BTX         | XBT 3-11       | 8TS          | 25           | 30GS | 70    | 351W S SOTW03WT    |
| 5           | 13             | 472        |             | BTX         | XBT 3-12       | 8TS          | 25           | 265S | 70    | 378W S SOTW03WT    |
| 530         | 13             | 472        |             | BTX         | XBT 3-13       | 8TS          | 25           | 202S | 70    | 464W S SOTW03WT    |
| 1200        | 13             | 472        |             | BTX         | XBT 3-14       | 8TS          | 25           | 192S | 70    | 459W S SOTW03WT    |
| 2230        | 13             | 472        |             | BTX         | XBT 3-15       | 8TS          | 25           | 273S | 71    | 36W S SOTW03WT     |
| 600         | 14             | 472        |             | BTX         | XBT 3-16       | 8TS          | 25           | 234S | 71    | 522W S SOTW03WT    |
| 154         | 15             | 472        |             | BTX         | XBT 3-17       | 8TS          | 25           | 113S | 71    | 280W S SOTW03WT    |
| 1130        | 15             | 472        |             | BTX         | XBT 3-18       | 8TS          | 25           | 149S | 71    | 313W S SOTW03WT    |
| 1720        | 15             | 472        |             | BTX         | XBT 3-19       | 8TS          | 25           | 252S | 71    | 524W S SOTW03WT    |
| 400         | 16             | 472        |             | BTX         | XBT 3-20       | 8TS          | 25           | 242S | 72    | 407W S SOTW03WT    |
| 2010        | 16             | 472        |             | BTX         | XBT 3-21       | 8TS          | 24           | 339S | 72    | 466W S SOTW03WT    |
| 10          | 17             | 472        |             | BTX         | XBT 3-22       | 8TS          | 23           | 548S | 72    | 453W S SOTW03WT    |
| 1205        | 17             | 472        |             | BTX         | XBT 3-23       | 8TS          | 23           | 371S | 72    | 71W S SOTW03WT     |
| 2215        | 17             | 472        |             | BTX         | XBT 3-24       | 8TS          | 23           | 356S | 71    | 188W S SOTW03WT    |
| 0           | 19             | 472        |             | BTX         | XBT 3-25       | 8TS          | 23           | 177S | 72    | 420W S SOTW03WT    |
| 1236        | 19             | 472        |             | BTX         | XBT 3-26       | 8TS          | 23           | 172S | 72    | 409W S SOTW03WT    |
| 2002        | 19             | 472        |             | BTX         | XBT 3-27       | 8TS          | 23           | 137S | 71    | 544W S SOTW03WT    |
| 313         | 20             | 472        |             | BTX         | XBT 3-28       | 8TS          | 23           | 181S | 70    | 445W S SOTW03WT    |
| 1200        | 20             | 472        |             | BTX         | XBT 3-29       | 8TS          | 23           | 159S | 71    | 221W S SOTW03WT    |
| 109         | 21             | 472        |             | BTX         | XBT 3-30       | 8TS          | 23           | 498S | 70    | 589W S SOTW03WT    |

\*\*\* TOWED BOTTOM GEAR \*\*\*

| TIME<br>GMT | DATE<br>D.M.Y. | TIME<br>TZ | SAMP<br>LOC | SEQ.<br>NUM. | DISP<br>CODE | SAMP<br>IDENT.   | LAT.    | LONG. | CRUISE<br>LEG-SHIP |
|-------------|----------------|------------|-------------|--------------|--------------|------------------|---------|-------|--------------------|
| 1815        | 4              | 472        | TR0T B      | 36           | 540S         | OTTER TRAWL      | 73 222W | S     | SOTW03WT           |
| 1915        | 4              | 472        | TR0T E      | 36           | 530S         | OTTER TRAWL      | 73 181W | S     | SOTW03WT           |
| 1700        | 3              | 472        | TRST B      | 35           | 282S         | SIGSBEE TRWL 3-1 | 73 542W | S     | SOTW03WT           |
| 15          | 4              | 472        | TRST E      | 35           | 78S          | SIGSBEE TRWL 3-1 | 74 18W  | S     | SOTW03WT           |
| 415         | 15             | 472        | TRST B      | 25           | 120S         | SIGSBEE TRWL 3-2 | 71 286W | S     | SOTW03WT           |
| 1220        | 15             | 472        | TRST E      | 25           | 158S         | SIGSBEE TRWL 3-2 | 71 316W | S     | SOTW03WT           |

\*\*\* MIDWATER TRAWL \*\*\*

| TIME<br>GMT | DATE<br>D.M.Y. | TIME<br>TZ | SAMP<br>LOC | SEQ.<br>NUM. | DISP<br>CODE | SAMP<br>IDENT. | LAT.    | LONG. | CRUISE<br>LEG-SHIP |
|-------------|----------------|------------|-------------|--------------|--------------|----------------|---------|-------|--------------------|
| 1715        | 2              | 472        | TMIP B      | 35           | 159S         | IKMT 3-1       | 74 6W   | S     | SOTW03WT           |
| 2015        | 2              | 472        | TMIP E      | 35           | 222S         | IKMT 3-1       | 74 21W  | S     | SOTW03WT           |
| 115         | 3              | 472        | TMIP B      | 35           | 88S          | IKMT 3-2       | 74 16W  | S     | SOTW03WT           |
| 1000        | 3              | 472        | TMIP E      | 35           | 107S         | IKMT 3-2       | 74 76W  | S     | SOTW03WT           |
| 230         | 11             | 472        | TMIP B      | 27           | 29S          | IKMT 3-3       | 71 421W | S     | SOTW03WT           |
| 1015        | 11             | 472        | TMIP E      | 27           | 38S          | IKMT 3-3       | 71 461W | S     | SOTW03WT           |
| 210         | 17             | 472        | TMIP B      | 23           | 390S         | IKMT 3-4       | 72 429W | S     | SOTW03WT           |
| 1145        | 17             | 472        | TMIP E      | 23           | 372S         | IKMT 3-4       | 72 95W  | S     | SOTW03WT           |
| 1445        | 17             | 472        | TMIP B      | 23           | 373S         | IKMT 3-5       | 71 403W | S     | SOTW03WT           |
| 2150        | 17             | 472        | TMIP E      | 23           | 358S         | IKMT 3-5       | 71 191W | S     | SOTW03WT           |
| 1210        | 20             | 472        | TMIP B      | 23           | 160S         | IKMT 3-6       | 71 222W | S     | SOTW03WT           |
| 2230        | 20             | 472        | TMIP E      | 23           | 484S         | IKMT 3-6       | 71 221W | S     | SOTW03WT           |

\*\*\* TRAP \*\*\*

| TIME<br>GMT | DATE<br>D.M.Y. | TIME<br>TZ | SAMP<br>LOC | SEQ.<br>NUM. | DISP<br>CODE | SAMP<br>IDENT. | LAT.    | LONG. | CRUISE<br>LEG-SHIP |
|-------------|----------------|------------|-------------|--------------|--------------|----------------|---------|-------|--------------------|
| 1420        | 9              | 472        | TR3C B      | 27           | 63S          | FISH TRAP 1    | 70 538W | S     | SOTW03WT           |
| 1830        | 10             | 472        | TR3C E      | 27           | 57S          | FISH TRAP 1    | 70 522W | S     | SOTW03WT           |
| 1700        | 12             | 472        | TR3C B      | 25           | 293S         | FISH TRAP 2    | 70 347W | S     | SOTW03WT           |
| 1730        | 13             | 472        | TR3C E      | 25           | 256S         | FISH TRAP 2    | 70 355W | S     | SOTW03WT           |
| 1700        | 12             | 472        | TR3C B      | 25           | 293S         | FISH TRAP 3    | 70 347W | S     | SOTW03WT           |
| 1630        | 13             | 472        | TR3C E      | 25           | 175S         | FISH TRAP 3    | 70 362W | S     | SOTW03WT           |

INVERTEBRATE BIOLOGY-CURATOR ABRAHAM FLEMINGER (EXT. 1131)

\*\*\* OPEN NET \*\*\*

| TIME<br>GMT | DATE<br>D.M.Y. | TZ<br>LOC | SAMP<br>LOC CODE | SAMPLE IDENT.  | SEO. DISP<br>NUM. CODE | LAT. | LONG.   | CRUISE<br>LEG-SHIP |
|-------------|----------------|-----------|------------------|----------------|------------------------|------|---------|--------------------|
| 1730        | 4              | 472       | ONIM B           | PLANKTON TOW 1 | MIC 36                 | 527S | 73 207W | S SOTW03WT         |
| 1800        | 4              | 472       | ONIM E           | PLANKTON TOW 1 | MIC 36                 | 532S | 73 213W | S SOTW03WT         |
| 1727        | 5              | 472       | ONIM B           | PLANKTON TOW 2 | MIC 35                 | 159S | 72 538W | S SOTW03WT         |
| 1758        | 5              | 472       | ONIM E           | PLANKTON TOW 2 | MIC 35                 | 149S | 72 534W | S SOTW03WT         |
| 2045        | 6              | 472       | ONIM B           | PLANKTON TOW 3 | MIC 33                 | 71S  | 72 80W  | S SOTW03WT         |
| 2102        | 6              | 472       | ONIM E           | PLANKTON TOW 3 | MIC 33                 | 77S  | 72 82W  | S SOTW03WT         |
| 2120        | 6              | 472       | ONIM B           | PLANKTON TOW 4 | MIC 33                 | 83S  | 72 85W  | S SOTW03WT         |
| 2206        | 6              | 472       | ONIM E           | PLANKTON TOW 4 | MIC 33                 | 97S  | 72 92W  | S SOTW03WT         |

MARINE VERTEBRATE CURATOR - R.H.ROSENBLATT, (EXT.1559)

\*\*\* SET LINE \*\*\*

| TIME<br>GMT | DATE<br>D.M.Y. | TZ<br>LOC | SAMP<br>LOC CODE | SAMPLE IDENT.  | SEO. DISP<br>NUM. CODE | LAT. | LONG.   | CRUISE<br>LEG-SHIP |
|-------------|----------------|-----------|------------------|----------------|------------------------|------|---------|--------------------|
| 2256        | 2              | 472       | SLVF B           | FV SETLINE 3-1 | MVC 35                 | 80S  | 74 4W   | S SOTW03WT         |
| 1210        | 3              | 472       | SLVF E           | FV SETLINE 3-1 | MVC 35                 | 76S  | 73 594W | S SOTW03WT         |
| 1220        | 4              | 472       | SLVF B           | FV SETLINE 3-2 | MVC 37                 | 67S  | 73 223W | S SOTW03WT         |
| 1715        | 4              | 472       | SLVF E           | FV SETLINE 3-2 | MVC 36                 | 534S | 73 215W | S SOTW03WT         |
| 24          | 10             | 472       | SLVF B           | FV SETLINE 3-3 | MVC 27                 | 47S  | 70 570W | S SOTW03WT         |
| 2130        | 10             | 472       | SLVF E           | FV SETLINE 3-3 | MVC 27                 | 58S  | 71 172W | S SOTW03WT         |
| 300         | 11             | 472       | SLVF B           | FV SETLINE 3-4 | MVC 27                 | 39S  | 71 434W | S SOTW03WT         |
| 1315        | 11             | 472       | SLVF E           | FV SETLINE 3-4 | MVC 27                 | 34S  | 71 453W | S SOTW03WT         |
| 26          | 13             | 472       | SLVF B           | FV SETLINE 3-5 | MVC 25                 | 266S | 70 394W | S SOTW03WT         |
| 1210        | 13             | 472       | SLVF E           | FV SETLINE 3-5 | MVC 25                 | 194S | 70 461W | S SOTW03WT         |
| 300         | 14             | 472       | SLVF B           | FV SETLINE 3-6 | MVC 25                 | 274S | 71 527W | S SOTW03WT         |
| 1620        | 14             | 472       | SLVF E           | FV SETLINE 3-6 | MVC 25                 | 264S | 71 522W | S SOTW03WT         |
| 217         | 15             | 472       | SLVF B           | FV SETLINE 3-7 | MVC 25                 | 119S | 71 285W | S SOTW03WT         |
| 1412        | 15             | 472       | SLVF E           | FV SETLINE 3-7 | MVC 25                 | 129S | 71 284W | S SOTW03WT         |
| 2359        | 15             | 472       | SLVF B           | FV SETLINE 3-8 | MVC 25                 | 211S | 72 415W | S SOTW03WT         |
| 1232        | 16             | 472       | SLVF E           | FV SETLINE 3-8 | MVC 25                 | 269S | 72 424W | S SOTW03WT         |
| 2330        | 17             | 472       | SLVF B           | FV SETLINE 3-9 | MVC 23                 | 364S | 71 187W | S SOTW03WT         |
| 1332        | 18             | 472       | SLVF E           | FV SETLINE 3-9 | MVC 23                 | 448S | 71 266W | S SOTW03WT         |
|             |                |           |                  |                | MVC 23                 | 120C | 73 114W | S SOTW03WT         |



\*\*\* MAGNETOMETER \*\*\*

| TIME<br>GMT | DATE<br>D.M.Y. | TZ<br>LOC | SAMP<br>CODE | SAMP<br>IDENT. | SEQ.<br>NUM. | DISP<br>CODE | LAT.    | LONG.  | CRUISE<br>LEG-SHIP |
|-------------|----------------|-----------|--------------|----------------|--------------|--------------|---------|--------|--------------------|
| 30          | 1              | 472       | MGR B        | MAGNET-ROLL 1  |              | GDC 0        | ON 0    | 0E     | SOTW03WT           |
| 2350        | 19             | 472       | MGR E        | MAGNET-ROLL 1  |              | GDC 23       | 63S 71  | 113W S | SOTW03WT           |
| 26          | 20             | 472       | MGR B        | MAGNET-ROLL 2  |              | GDC 23       | 51S 71  | 45W S  | SOTW03WT           |
| 800         | 20             | 472       | MGR E        | MAGNET-ROLL 2  |              | GDC 23       | 169S 71 | 190W S | SOTW03WT           |

UNDERWAY DATA - CURATOR T.E. CHASE 2ND FLUOR AQUARIUM (EXT.1534)

\*\*\*FATHOGRAMS \*\*\*

| TIME<br>GMT | DATE<br>D.M.Y. | TIME<br>TZ | SAMP<br>LOC | LOC | SAMP<br>IDENT. | SEQ.<br>NUM. | DISP<br>CODE | LAT. | LONG. | CRUISE<br>LEG-SHIP |    |      |            |
|-------------|----------------|------------|-------------|-----|----------------|--------------|--------------|------|-------|--------------------|----|------|------------|
| 20          | 1              | 472        | DPR         | B   | GDR            | 12KHZ-ROLL   | 1            | GDC  | 0     | ON                 | 0  | OE   | SOTW03WT   |
| 2017        | 3              | 472        | DPR         | E   | GDR            | 12KHZ-ROLL   | 1            | GDC  | 35    | 205S               | 73 | 570W | S SOTW03WT |
| 2020        | 3              | 472        | DPR         | B   | GDR            | 12KHZ-ROLL   | 2            | GDC  | 35    | 205S               | 73 | 570W | S SOTW03WT |
| 1823        | 7              | 472        | DPR         | E   | GDR            | 12KHZ-ROLL   | 2            | GDC  | 32    | 543S               | 71 | 514W | S SOTW03WT |
| 1830        | 7              | 472        | DPR         | B   | GDR            | 12KHZ-ROLL   | 3            | GDC  | 32    | 538S               | 71 | 529W | S SOTW03WT |
| 2030        | 10             | 472        | DPR         | E   | GDR            | 12KHZ-ROLL   | 3            | GDC  | 27    | 66S                | 71 | 80W  | S SOTW03WT |
| 2035        | 10             | 472        | DPR         | B   | GDR            | 12KHZ-ROLL   | 4            | GDC  | 27    | 72S                | 71 | 88W  | S SOTW03WT |
| 2130        | 13             | 472        | DPR         | E   | GDR            | 12KHZ-ROLL   | 4            | GDC  | 25    | 272S               | 70 | 511W | S SOTW03WT |
| 2140        | 13             | 472        | DPR         | B   | GDR            | 12KHZ-ROLL   | 5            | GDC  | 25    | 272S               | 70 | 532W | S SOTW03WT |
| 1520        | 17             | 472        | DPR         | E   | GDR            | 12KHZ-ROLL   | 5            | GDC  | 23    | 374S               | 71 | 378W | S SOTW03WT |
| 1530        | 17             | 472        | DPR         | B   | GDR            | 12KHZ-ROLL   | 6            | GDC  | 23    | 373S               | 71 | 371W | S SOTW03WT |
| 800         | 20             | 472        | DPR         | E   | GDR            | 12KHZ-ROLL   | 6            | GDC  | 23    | 169S               | 71 | 190W | S SOTW03WT |
| 35          | 1              | 472        | DPR         | B   | GDR            | 3.5KHZ-ROLL  | 1            | GDC  | 0     | ON                 | 0  | OE   | SOTW03WT   |
| 843         | 6              | 472        | DPR         | E   | GDR            | 3.5KHZ-ROLL  | 1            | GDC  | 34    | 220S               | 72 | 407W | S SOTW03WT |
| 850         | 6              | 472        | DPR         | B   | GDR            | 3.5KHZ-ROLL  | 2            | GDC  | 34    | 207S               | 72 | 402W | S SOTW03WT |
| 315         | 12             | 472        | DPR         | E   | GDR            | 3.5KHZ-ROLL  | 2            | GDC  | 25    | 575S               | 71 | 358W | S SOTW03WT |
| 320         | 12             | 472        | DPR         | B   | GDR            | 3.5KHZ-ROLL  | 3            | GDC  | 25    | 568S               | 71 | 363W | S SOTW03WT |
| 137         | 17             | 472        | DPR         | E   | GDR            | 3.5KHZ-ROLL  | 3            | GDC  | 23    | 408S               | 72 | 438W | S SOTW03WT |
| 145         | 17             | 472        | DPR         | B   | GDR            | 3.5KHZ-ROLL  | 4            | GDC  | 23    | 395S               | 72 | 437W | S SOTW03WT |
| 300         | 20             | 472        | DPR         | E   | GDR            | 3.5KHZ-ROLL  | 4            | GDC  | 23    | 173S               | 70 | 459W | S SOTW03WT |

\*\*\* SEISMIC REFLECTION PROFILES \*\*\*

| TIME<br>GMT | DATE<br>D.M.Y. | TIME<br>TZ | SAMP<br>LOC | LOC | SAMP<br>IDENT. | SEQ.<br>NUM. | DISP<br>CODE | LAT. | LONG. | CRUISE<br>LEG-SHIP |      |            |
|-------------|----------------|------------|-------------|-----|----------------|--------------|--------------|------|-------|--------------------|------|------------|
| 0           | 4              | 472        | SPRT        | B   | AIRGUN-RS-ROLL | 1            | GDC          | 35   | 84S   | 74                 | 15W  | S SOTW03WT |
| 1405        | 12             | 472        | SPRT        | E   | AIRGUN-RS-ROLL | 1            | GDC          | 25   | 210S  | 70                 | 332W | S SOTW03WT |
| 1714        | 14             | 472        | SPRT        | B   | AIRGUN-RS-ROLL | 2            | GDC          | 25   | 231S  | 71                 | 495W | S SOTW03WT |
| 0           | 0              | 472        | SPRT        | E   | AIRGUN-RS-ROLL | 2            | GDC          | 0    | ON    | 0                  | OE   | SOTW03WT   |

SOUTH TOW EXPEDITION LEG 03 SAMPLE INDEX

LISTED 17 AUGUST 1972

| 2345 | 31 | 372 | LG   | B | VALPARAISO, CHILE | 0  | ON   | 0  | OE   | SOTW03WT |
|------|----|-----|------|---|-------------------|----|------|----|------|----------|
| 800  | 20 | 472 | LG   | E | ANTOFAGASTACHILE  | 23 | 169S | 71 | 190W | S        |
| 0    | 0  | 0   | PECS |   | R. L. WISNER      | 0  | ON   | 0  | OE   | SOTW03WT |
| 0    | 0  | 0   | PERT |   | J. A. WELLS       | 0  | ON   | 0  | OE   | SOTW03WT |
| 0    | 0  | 0   | PECT |   | C. M. BUTLER      | 0  | ON   | 0  | OE   | SOTW03WT |
| 0    | 0  | 0   | PEAT |   | D. MCKINNEY       | 0  | ON   | 0  | OE   | SOTW03WT |
| 0    | 0  | 0   | PE   |   | T. ANTEZANA       | 0  | ON   | 0  | OE   | SOTW03WT |
| 0    | 0  | 0   | PE   |   | G. R. COOKE       | 0  | ON   | 0  | OE   | SOTW03WT |
| 0    | 0  | 0   | PE   |   | P. CURTEZ         | 0  | ON   | 0  | OE   | SOTW03WT |
| 0    | 0  | 0   | PE   |   | L. GONZALEZ       | 0  | ON   | 0  | OE   | SOTW03WT |
| 0    | 0  | 0   | PE   |   | R. S. LEE         | 0  | ON   | 0  | OE   | SOTW03WT |
| 0    | 0  | 0   | PE   |   | R. MCCONNAUGHEY   | 0  | ON   | 0  | OE   | SOTW03WT |
| 0    | 0  | 0   | PE   |   | L. MIRANDA        | 0  | ON   | 0  | OE   | SOTW03WT |
| 0    | 0  | 0   | PE   |   | C. F. PHLEGER     | 0  | ON   | 0  | OE   | SOTW03WT |
| 0    | 0  | 0   | PE   |   | M. RETAMAL        | 0  | ON   | 0  | OE   | SOTW03WT |
| 0    | 0  | 0   | PE   |   | J. I. SEPULVEDA   | 0  | ON   | 0  | OE   | SOTW03WT |
| 0    | 0  | 0   | PE   |   | M. H. SESSIONS    | 0  | ON   | 0  | OE   | SOTW03WT |
| 0    | 0  | 0   | PE   |   | A. YANEZ          | 0  | ON   | 0  | OE   | SOTW03WT |
| 0    | 0  | 0   | PE   |   | A. YAYANOS        | 0  | ON   | 0  | OE   | SOTW03WT |

\*\*\* PERSONNEL \*\*\*