PRELIMINARY REPORT AND INDEX

OF

NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA

SOUTHTOW EXPEDITION

LEG 1

~~R/V Melville~~ T. WASHINGTON

San Diego (5 January 1972) to Tahiti (10 February 1972)

Chief Scientist, Leg 1 - R. Hessler

Cruise Coordinator - J. Mudie

Airgun Tech. - D. McKinney

Computer Tech. - J.L. Abbott

Resident Marine Tech. - P. Liebertz

Data Processed by - P. Liebertz, U. Ritter

Geological Data Center

T.E. Chase - Curator

S.M. Smith - Data Processing Coordinator

Scripps Institution of Oceanography

La Jolla, California

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 (month/day) 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 = 5000 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:

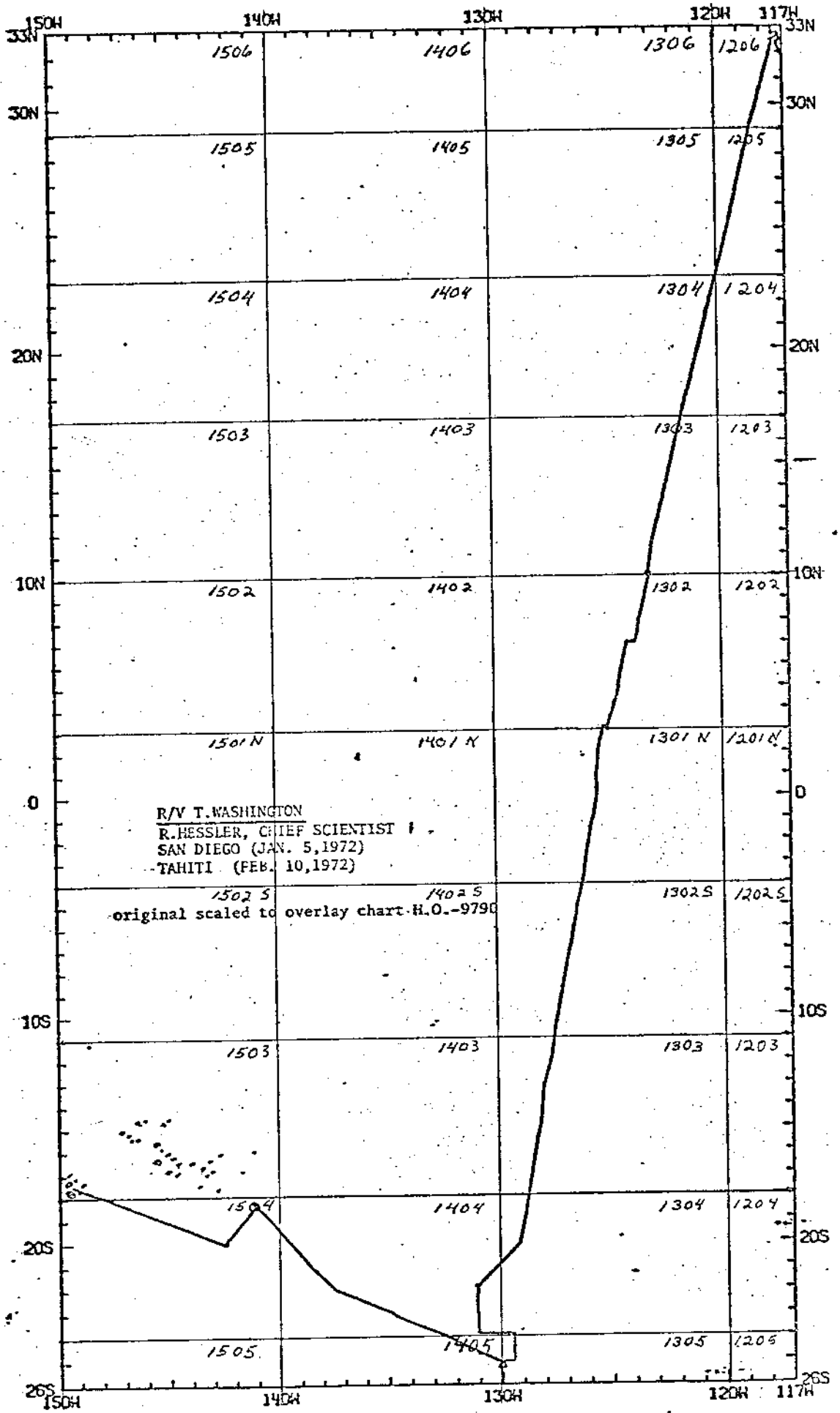
   a. Echosounder records - 12 and 3.5 kHz frequency

   b. Subbottom profiler records (airgun)

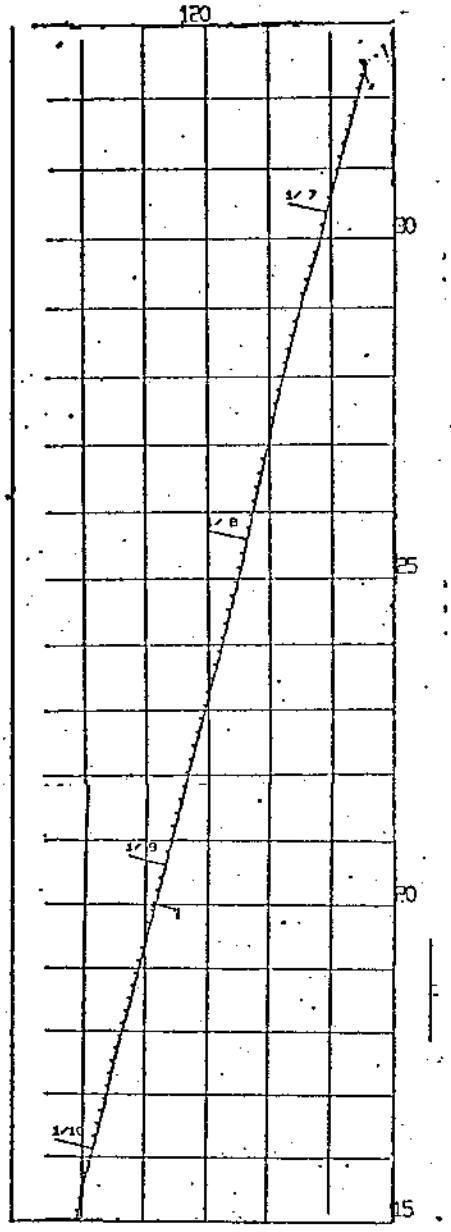
   c. Magnetometer records

   d. Underway Data Log

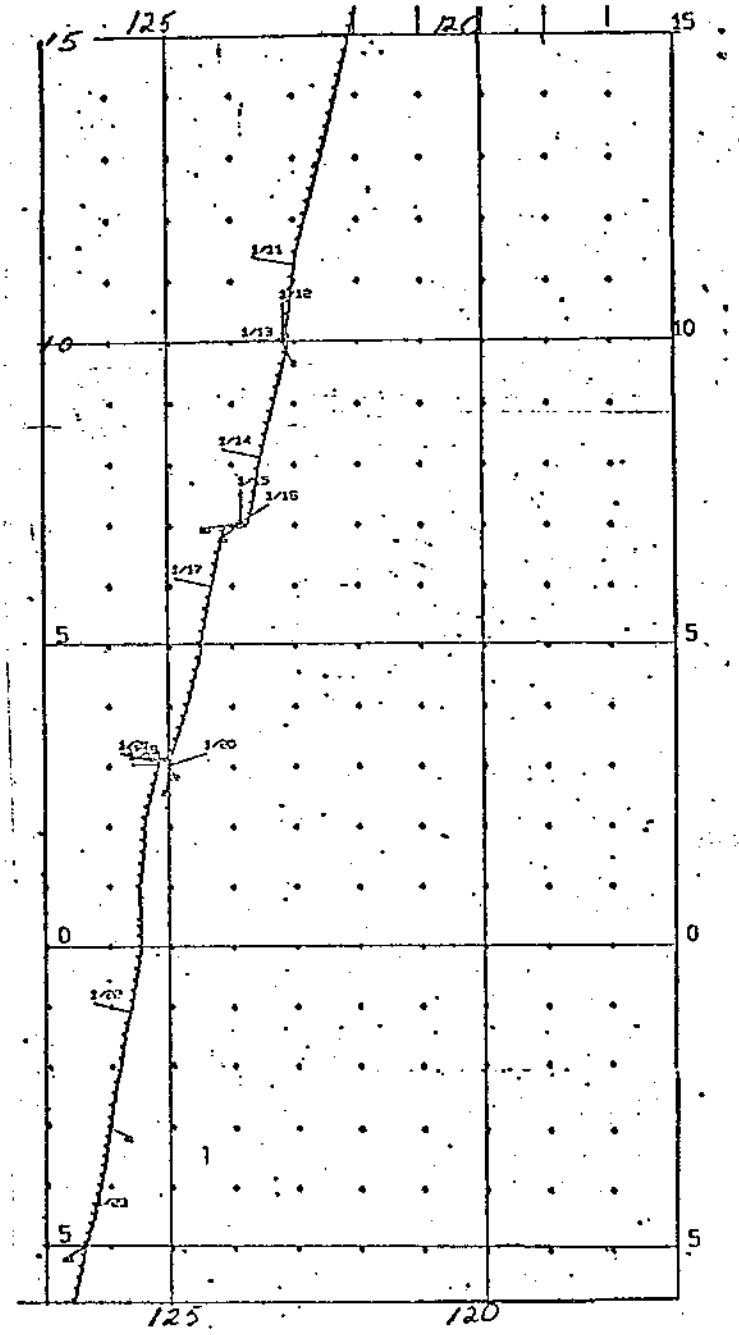
SMS 13/APR/72



Track Index with boundaries of Depth Compilation plots.

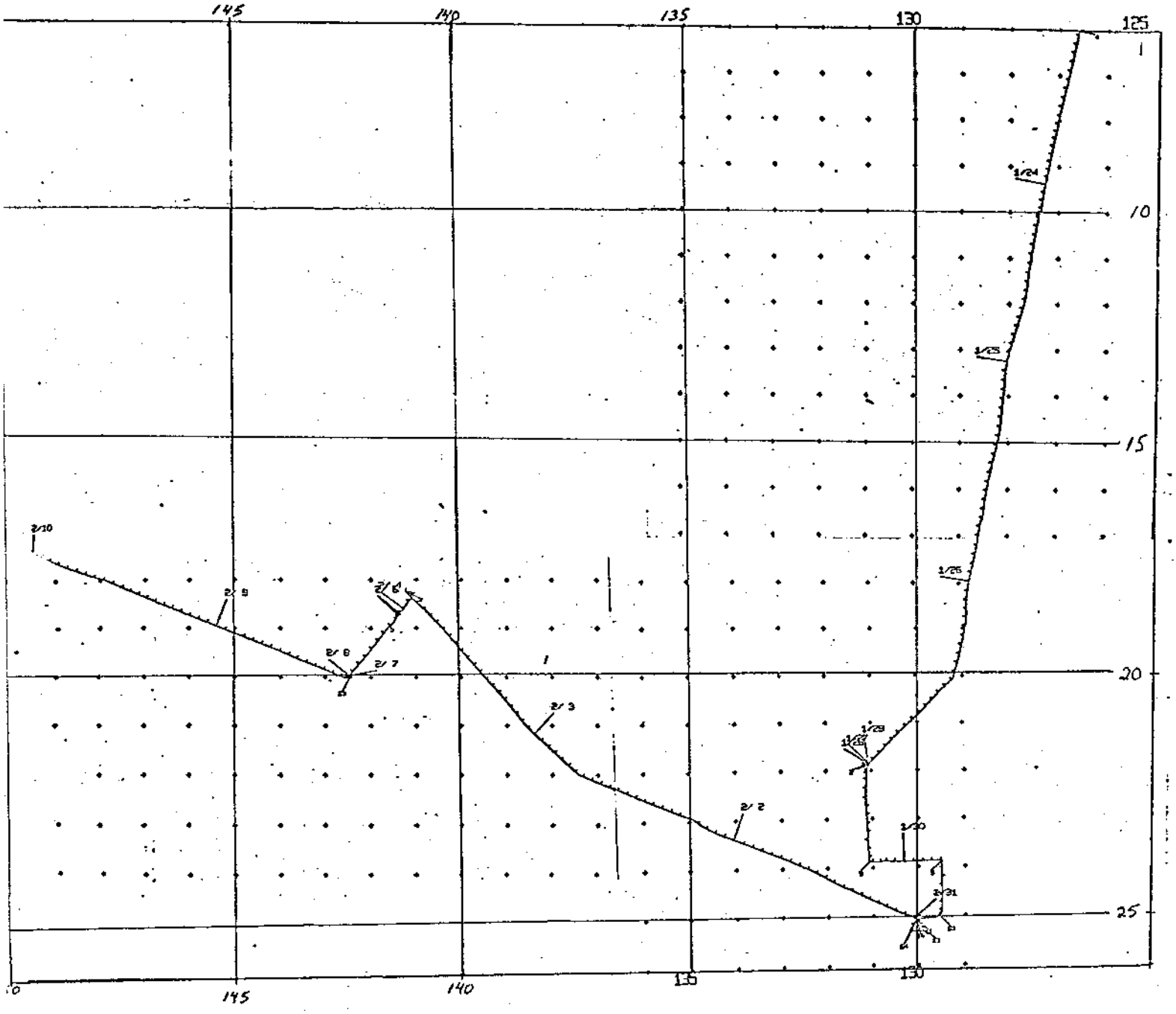


Track Plot 1



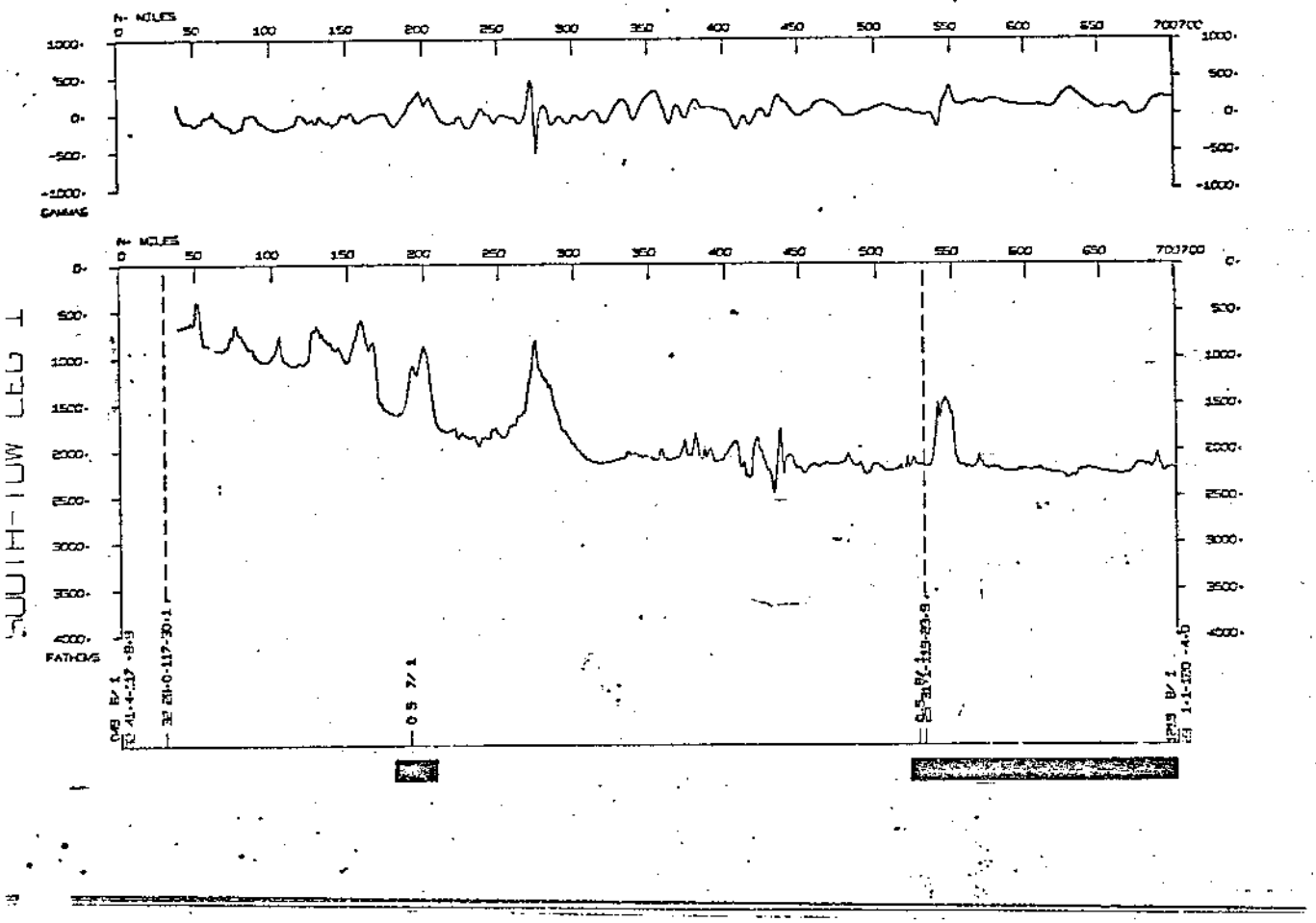
Track Plot 2

South-Tow Leg-1



South-Tow Leg - 1

Track Plot 3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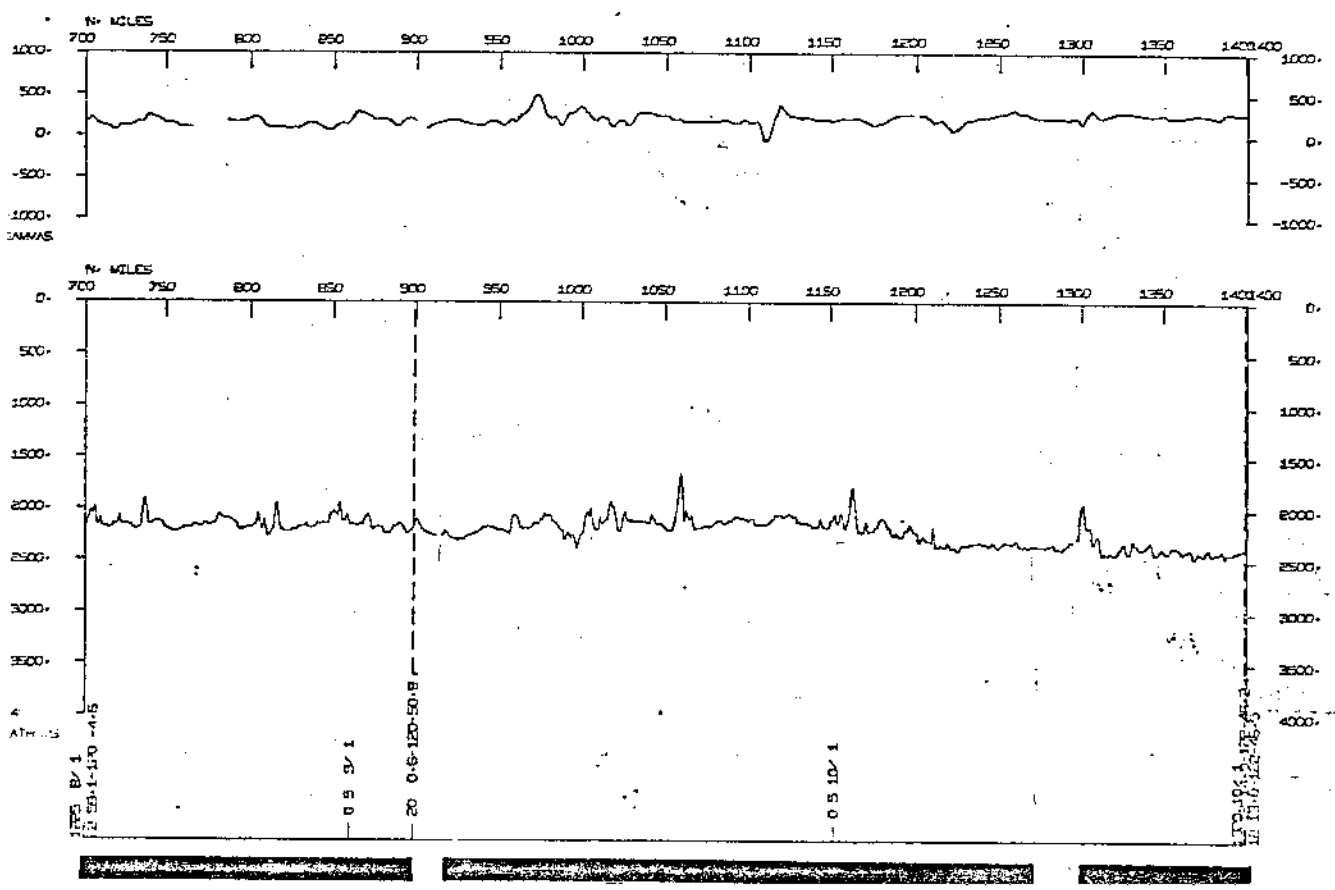
FATHOMS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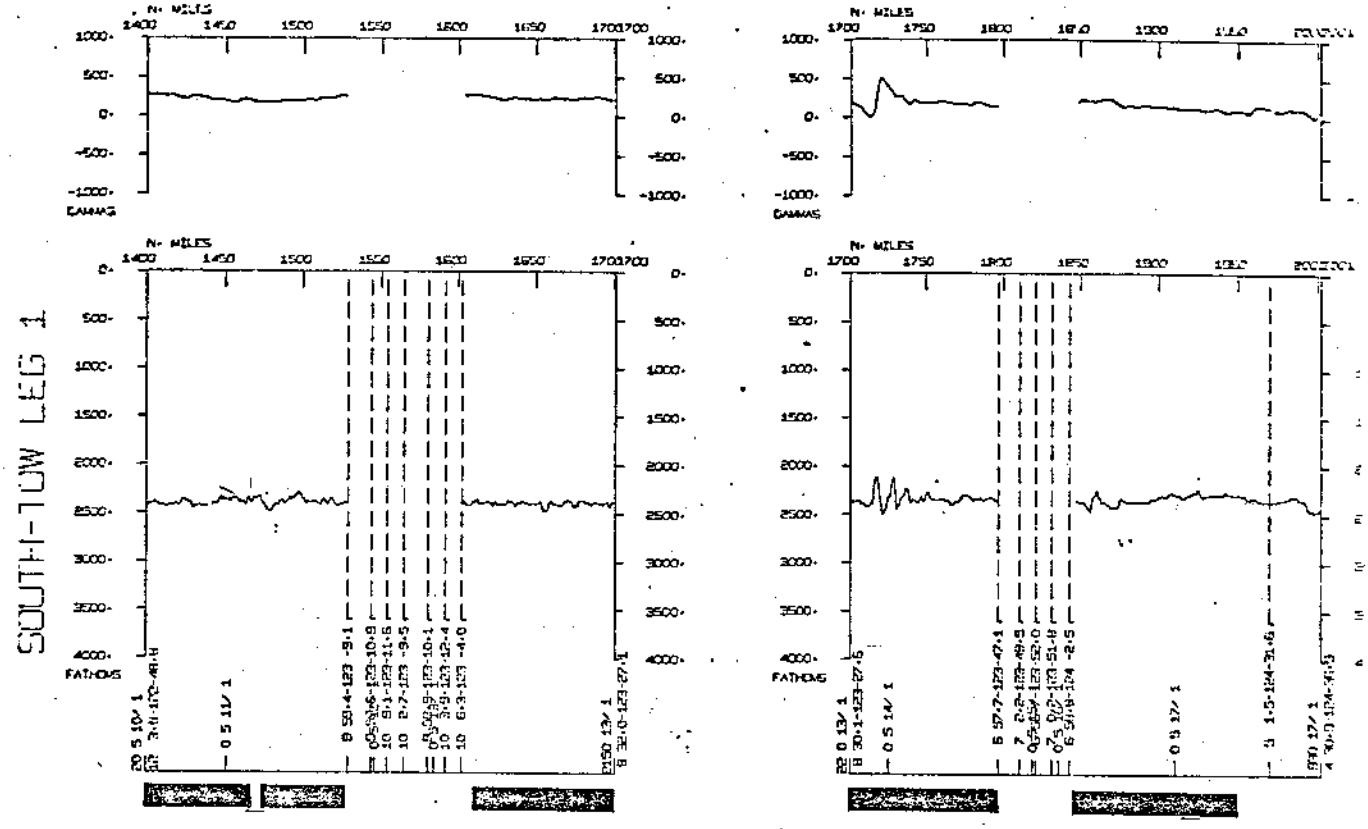
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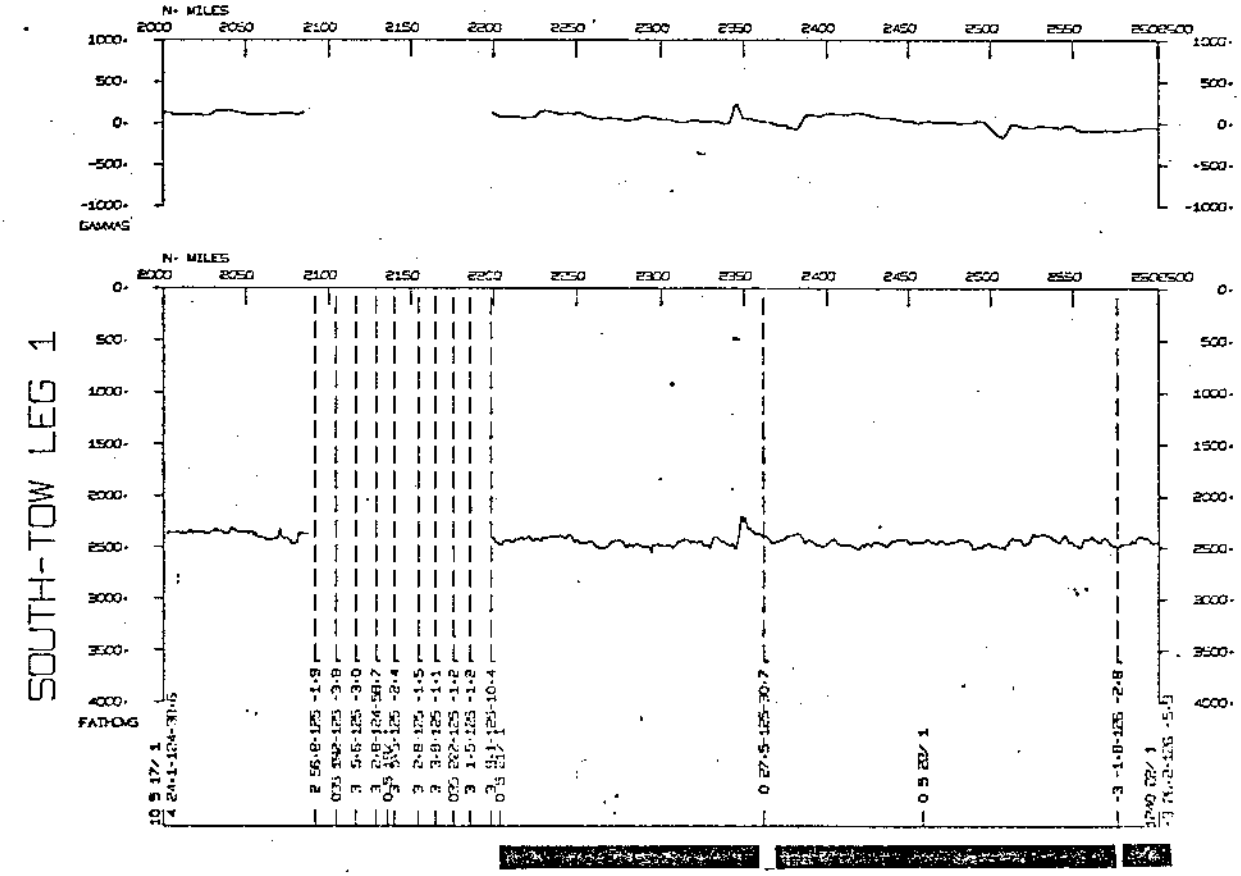
GAMMAS
FATHOMS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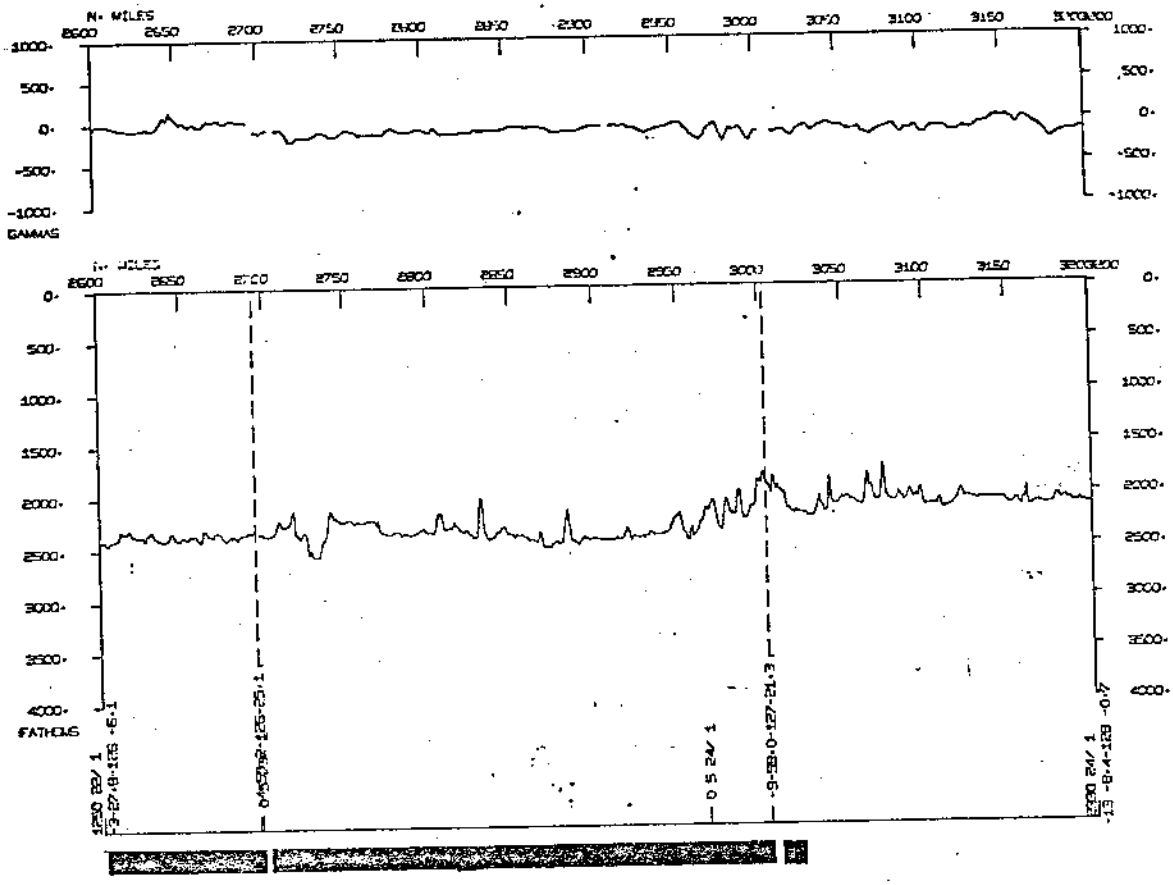
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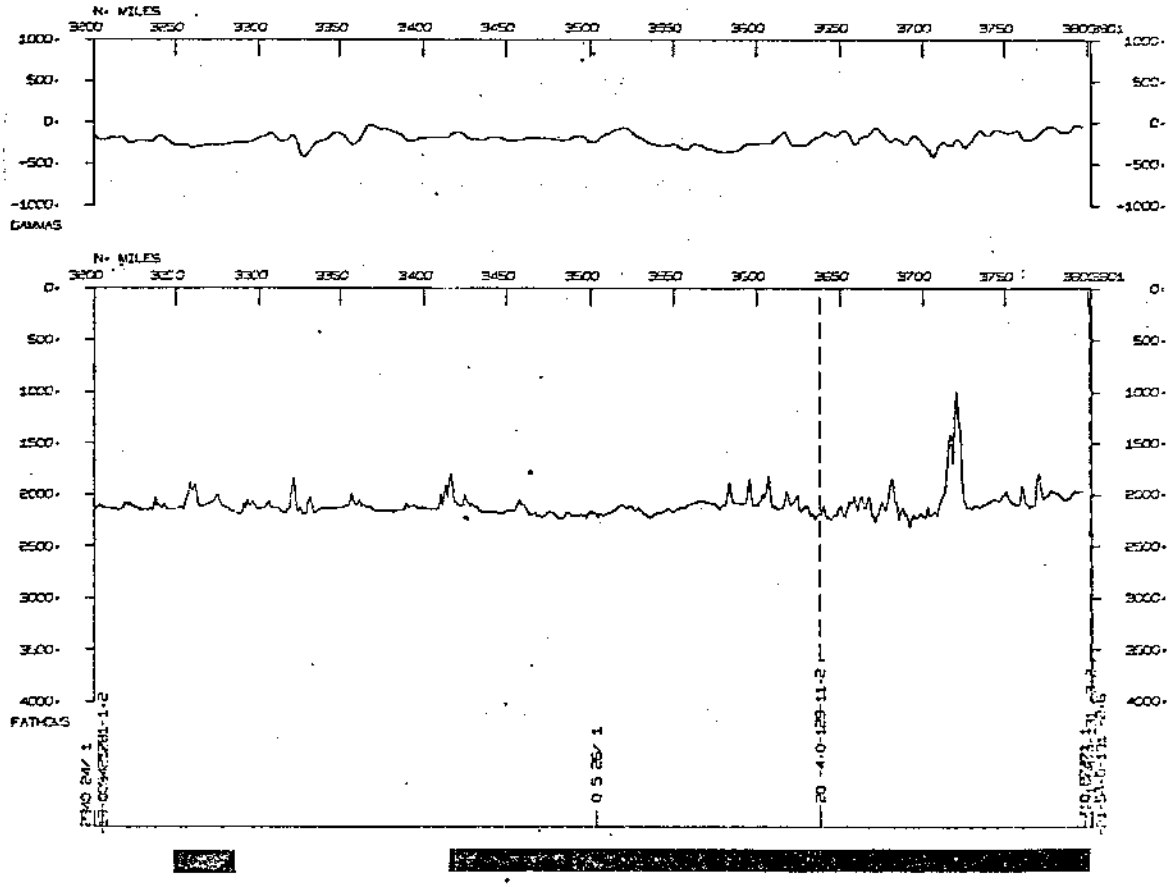
FATHOMS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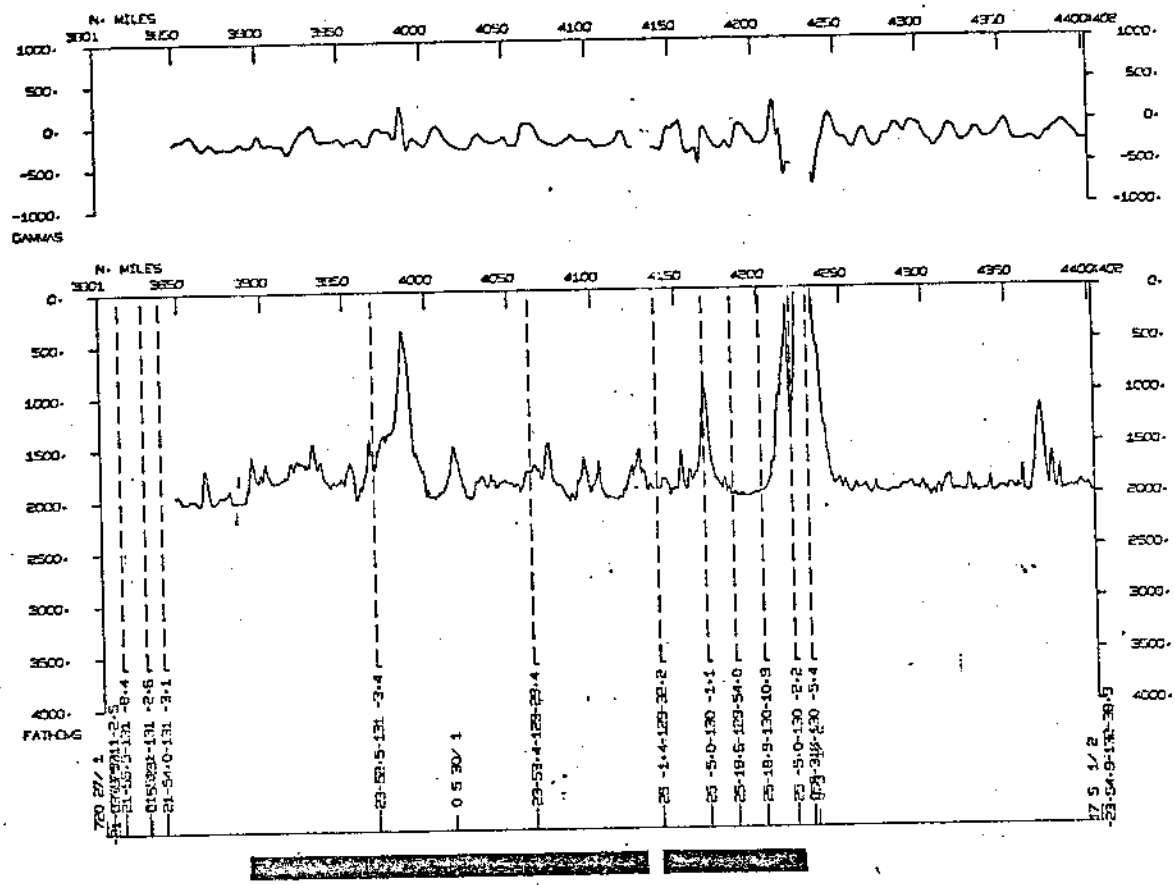
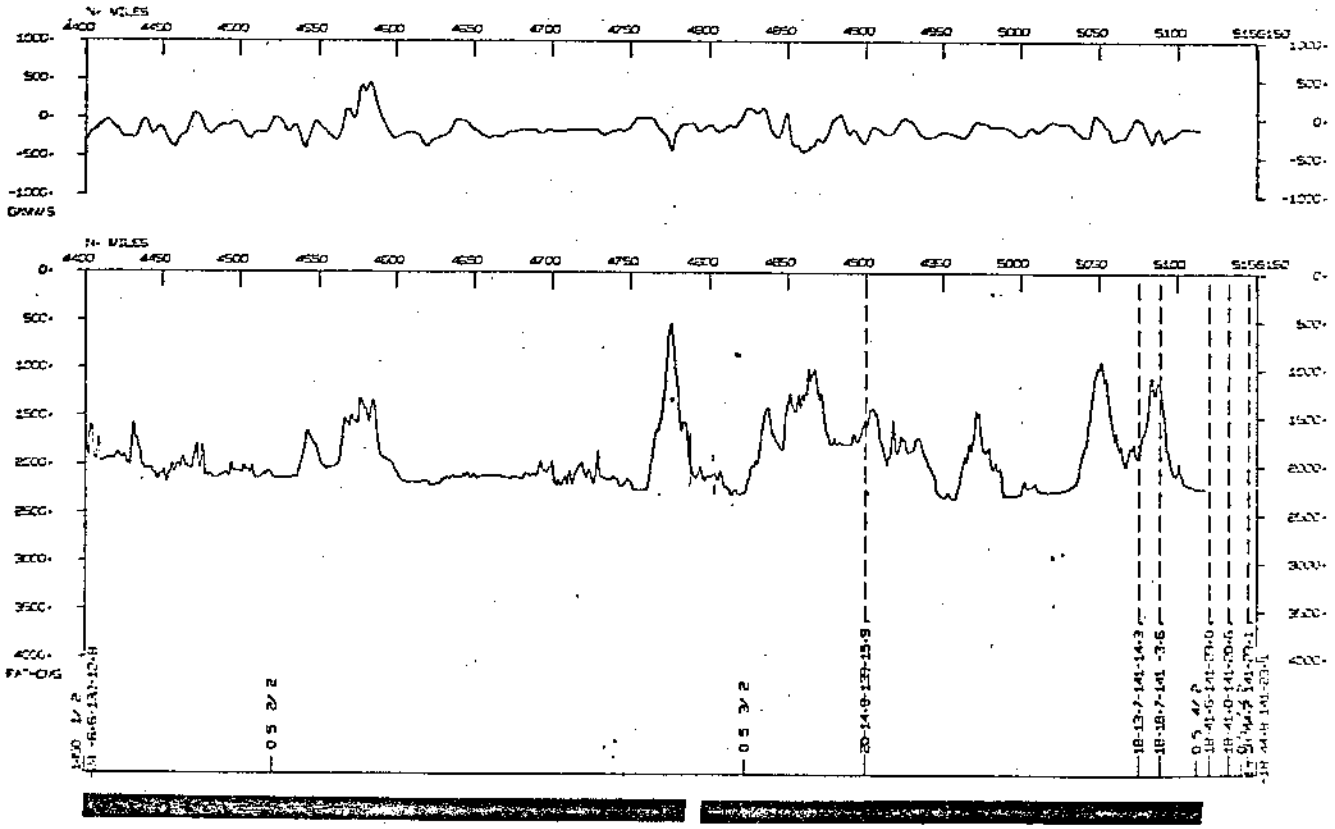
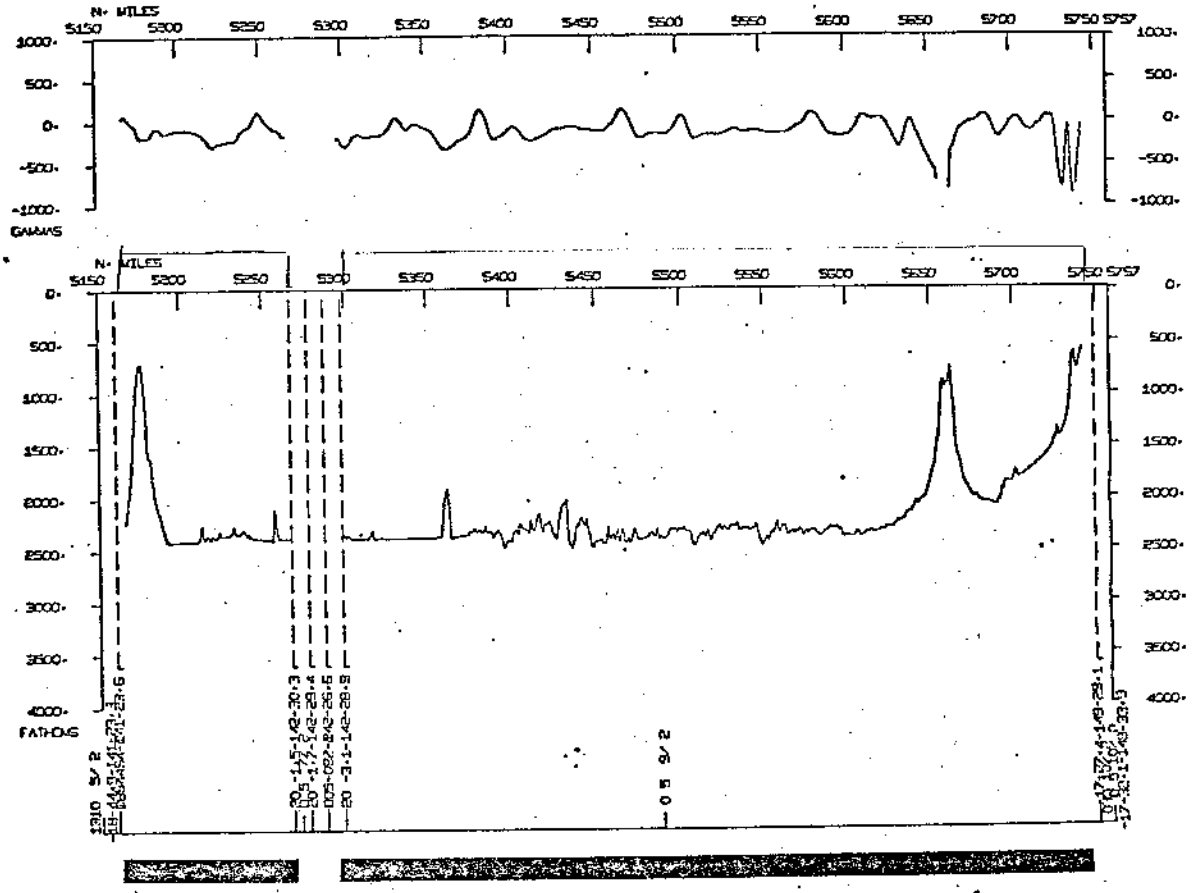




SOUTH-TOW LEG 1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GAMMS
N. MILES
FATHOMS
1310 S/2
0 5 S/2

LISTED 12 MAY 1972

6	172		LG	B	SAN DIEGO	32	418N	117	110W	S	SOTWO1WT
9	272		LG	E	PAPEETE,TAHITI	17	314S	149	336W	S	SOTWO1WT

PERSONNEL ***

0	0	0	PEGS	R.R.HESSLER	0	ON	0	OE	SOTWO1WT
0	0	0	PERT	P.LIEBERTZ	0	ON	0	OE	SOTWO1WT
0	0	0	PECT	J.L.ABBOTT	0	ON	0	OE	SOTWO1WT
0	0	0	PEAT	D.MCKINNEY	0	ON	0	OE	SOTWO1WT
0	0	0	PE	C.EDGERTON	0	ON	0	OE	SOTWO1WT
0	0	0	PE	K.FAUCHAULD	0	ON	0	OE	SOTWO1WT
0	0	0	PE	J.GRAHAM	0	ON	0	OE	SOTWO1WT
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*** NAVIGATION PLOTS ***

TIME GMT	DATE D.	M.	Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
	6	172	505	80		NVBP	B BRIDGE PLOT 1-01		GDC	32 271N	117 270W	S SOTWO1WT
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	6	1722	018	80		NVBP	B BRIDGE PLOT 1-02		GDC	29 323N	118 193W	S SOTWO1WT
	8	172	242	80		NVBP	E BRIDGE PLOT 1-02		GDC	23 205N	119 585W	S SOTWO1WT
	8	172	242	80		NVBP	B BRIDGE PLOT 1-03		GDC	23 205N	119 585W	S SOTWO1WT
	9	172	818	80		NVBP	E BRIDGE PLOT 1-03		GDC	17 401N	121 283W	S SOTWO1WT
	9	172	818	80		NVBP	B BRIDGE PLOT 1-04		GDC	17 401N	121 283W	S SOTWO1WT
	10	1722	344	80		NVBP	E BRIDGE PLOT 1-04		GDC	9 596N	123 92W	S SOTWO1WT
	10	1722	344	80		NVBP	B BRIDGE PLOT 1-05		GDC	9 596N	123 92W	S SOTWO1WT
	17	172	510	80		NVBP	E BRIDGE PLOT 1-05		GDC	3 485N	124 486W	S SOTWO1WT
	17	172	510	80		NVBP	B BRIDGE PLOT 1-06		GDC	3 485N	124 486W	S SOTWO1WT
	22	172	228	80		NVBP	E BRIDGE PLOT 1-06		GDC	3 56S	126 34W	S SOTWO1WT
	22	172	228	80		NVBP	B BRIDGE PLOT 1-07		GDC	3 56S	126 34W	S SOTWO1WT
	23	1722	354	80		NVBP	E BRIDGE PLOT 1-07		GDC	10 50S	127 239W	S SOTWO1WT
2354	23	172				NVBP	B BRIDGE PLOT 1-08		GDC	9 214S	127 158W	S SOTWO1WT
1147	25	172				NVBP	E BRIDGE PLOT 1-08		GDC	15 351S	128 207W	S SOTWO1WT
1147	25	172				NVBP	B BRIDGE PLOT 1-09		GDC	15 351S	128 207W	S SOTWO1WT
1843	29	172				NVBP	E BRIDGE PLOT 1-09		GDC	23 433S	131 46W	S SOTWO1WT
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1456	1	272				NVBP	B BRIDGE PLOT 1-11		GDC	24 61S	132 140W	S SOTWO1WT
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\THOGRAMS ***

DATE D.M.Y.	TIME LOC	LOC	AP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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9 172			DPR3 B	GDR3.5KHZ-ROLL 2		GDC	16 277N	121 451W	S SOTW01WT
11 172			DPR3 E	GDR3.5KHZ-ROLL 2		GDC	10 49N	123 83W	S SOTW01WT
13 172			DPR3 B	GDR3.5KHZ-ROLL 3		GDC	10 47N	123 61W	S SOTW01WT
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17 172			DPR3 E	GDR3.5KHZ-ROLL 4		GDC	2 596N	125 16W	S SOTW01WT
20 172			DPR3 B	GDR3.5KHZ-ROLL 5		GDC	3 90N	125 104W	S SOTW01WT
23 172			DPR3 E	GDR3.5KHZ-ROLL 5		GDC	7 26S	126 481W	S SOTW01WT
23 172			DPR3 B	GDR3.5KHZ-ROLL 6		GDC	7 55S	126 487W	S SOTW01WT
24 172			DPR3 E	GDR3.5KHZ-ROLL 6		GDC	10 11S	127 225W	S SOTW01WT
24 172			DPR3 B	GDR3.5KHZ-ROLL 7		GDC	10 11S	127 225W	S SOTW01WT
26 172			DPR3 E	GDR3.5KHZ-ROLL 7		GDC	21 501S	131 11W	S SOTW01WT
29 172			DPR3 B	GDR3.5KHZ-ROLL 8		GDC	22 8S	131 55W	S SOTW01WT
30 172			DPR3 E	GDR3.5KHZ-ROLL 8		GDC	25 62S	130 34W	S SOTW01WT
1 272			DPR3 B	GDR3.5KHZ-ROLL 9		GDC	25 37S	130 58W	S SOTW01WT
4 272			DPR3 E	GDR3.5KHZ-ROLL 9		GDC	18 358S	141 172W	S SOTW01WT
6 272			DPR3 B	GDR3.5KHZ ROLL10		GDC	19 81S	141 452W	S SOTW01WT
6 272			DPR3 E	GDR3.5KHZ-ROLL10		GDC	19 594S	142 297W	S SOTW01WT
8 272			DPR3 B	GDR3.5KHZ-ROLL11		GDC	20 20S	142 294W	S SOTW01WT
8 272			DPR3 E	GDR3.5KHZ-ROLL11		GDC	19 183S	144 273W	S SOTW01WT
8 272			DPR3 B	GDR3.5KHZ-ROLL12		GDC	19 183S	144 273W	S SOTW01WT
9 272			DPR3 E	GDR3.5KHZ-ROLL12		GDC	17 276S	149 236W	S SOTW01WT
325	6 172		DPRT B	GDR 12KHZ-ROLL 1		GDC	32 417N	7 90W	S SOTW01WT
555	8 172		DPRT E	GDR 12KHZ-ROLL 1		GDC	22 31	90W	S SOTW01WT
1704	8 172		DPRT B	GDR 12KHZ-ROLL 2		GDC	22 12N	120 205W	S SOTW01WT
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800	8 272		DPRT B	GDR 12KHZ-ROLL11		GDC	20 20S	142 294W	S SOTW01WT
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SEISMIC REFLECTION PROFILES ***

DATE D.M.Y.	TIME LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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21	172	SPRT B	AIRGUN-RS-ROLL 2		GDC	3 46N	125 122W S	SOTW01WT
9	272	SPRT E	AIRGUN-RS-ROLL 2		GDC	17 275S	149 239W S	SOTW01WT

MAGNETOMETER ***

DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
6	172		MGR B	MAGNET-ROLL 1		GDC	32 269N	117 281W S	SOTW01WT
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2	272		MGR E	MAGNET ROLL 2		GDC	22 457S	135 262W S	SOTW01WT
2	272		MGR B	MAGNET ROLL 3		GDC	22 452S	135 274W S	SOTW01WT
9	272		MGR E	MAGNET ROLL 3		GDC	17 276S	149 236W S	SOTW01WT

BENTHIC BIOLOGY-CURATOR ROBERT R. HESSLER DATE 2/78

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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1222	6	172		BC	JUMARS 24		RRH	32 273N	117 273W S	SOTW01WT
1015	11	172		BC	H48 BOX CORE		RRH	10 1N	123 85W S	SOTW01WT
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140	15	172		BC	H62 NG BOX CORE		RRH	6 575N	123 516W S	SOTW01WT
520	15	172		BC	H63 NG BOX CORE		RRH	6 565N	123 534W S	SOTW01WT
1100	15	172		BC	H65 NG BOX CORE		RRH	6 589N	123 556W S	SOTW01WT
1648	15	172		BC	H66 NG BOX CORE		RRH	7 5N	123 524W S	SOTW01WT
1938	17	172		BC	H71 BOX CORE		RRH	3 7N	125 13W S	SOTW01WT
102	18	172		BC	H75 BOX CORE		RRH	3 95N	125 40W S	SOTW01WT
544	18	172		BC	H76 BOX CORE		RRH	3 42N	125 23W S	SOTW01WT
1028	18	172		BC	H77 BOX CORE		RRH	3 63N	125 30W S	SOTW01WT
1507	18	172		BC	H78 NG BOX CORE		RRH	3 33N	125 6W S	SOTW01WT
1832	18	172		BC	H79 BOX CORE		RRH	3 33N	124 590W S	SOTW01WT
2330	18	172		BC	H80 BOX CORE		RRH	3 25N	125 13W S	SOTW01WT
127	27	172		BC	H90 BOX CORE		RRH	21 522S	131 25W S	SOTW01WT
511	27	172		BC	H93 BOX CORE		RRH	21 544S	131 31W S	SOTW01WT
818	27	172		BC	H94 BOX CORE		RRH	21 537S	131 25W S	SOTW01WT
1153	27	172		BC	H95 BOX CORE		RRH	21 528S	131 23W S	SOTW01WT
1515	27	172		BC	H96 BOX CORE		RRH	21 524S	131 22W S	SOTW01WT
1830	27	172		BC	H97 NG BOX CORE		RRH	21 516S	131 29W S	SOTW01WT
2111	27	172		BC	H98 BOX CORE		RRH	21 511S	131 27W S	SOTW01WT
442	6	272		BC	H114NG BOX CORE		RRH	18 453S	141 244W S	SOTW01WT
748	6	272		BC	H115 BOX CORE		RRH	18 461S	141 251W S	SOTW01WT
2003	6	272		BC	H116 BOX CORE		RRH	20 15S	142 301W S	SOTW01WT
32	7	272		BC	H117 BOX CORE		RRH	19 581S	142 288W S	SOTW01WT
412	7	272		BC	H118 BOX CORE		RRH	19 589S	142 285W S	SOTW01WT
743	7	272		BC	H119 BOX CORE		RRH	19 599S	142 283W S	SOTW01WT
1700	7	272		BC	H121 BOX CORE		RRH	20 9S	142 307W S	SOTW01WT
1245	11	172		TBAD	H49 ANCHOR DRDGE		RRH	10 10N	123 79W S	SOTW01WT
524	13	172		TBAD	H56 ANCHOR DRDGE		RRH	10 18N	123 135W S	SOTW01WT
906	14	172		TBAD	H57 ANCHOR DRDGE		RRH	6 587N	123 502W S	SOTW01WT
1504	16	172		TBAD	H70 ANCHOR DRDGE		RRH	6 594N	124 34W S	SOTW01WT
2005	19	172		TBAD	H85 ANCHOR DRDGE		RRH	3 61N	125 25W S	SOTW01WT
221	20	172		TBAD	H86 ANCHOR DRDGE		RRH	3 37N	125 21W S	SOTW01WT
2037	28	172		TBAD	H102 ANCHORDRDGE		RRH	21 530S	131 89W S	SOTW01WT
149	29	172		TBAD	H103 ANCHORDRDGE		RRH	21 504S	131 51W S	SOTW01WT
429	4	272		TBAD	H104 ANCHORDRDGE		RRH	18 423S	141 232W S	SOTW01WT
1026	4	272		TBAD	H108 ANCHORDRDGE		RRH	18 431S	141 227W S	SOTW01WT
2235	7	272		TBAD	H122 ANCHORDRDGE		RRH	19 593S	142 272W S	SOTW01WT
2255	11	172		TBES	H51 BENTHIC SLED		RRH	10 6N	123 109W S	SOTW01WT
653	12	172		TBES	H53 BENTHIC SLED		RRH	10 26N	123 97W S	SOTW01WT
1612	14	172		TBES	H60 BENTHIC SLED		RRH	7 22N	123 508W S	SOTW01WT
2031	15	172		TBES	H67 BENTHIC SLED		RRH	6 598N	123 541W S	SOTW01WT
440	16	172		TBES	H68 BENTHIC SLED		RRH	6 589N	123 589W S	SOTW01WT
613	19	172		TBES	H81 BENTHIC SLED		RRH	3 16N	125 8W S	SOTW01WT
1339	19	172		TBES	H84 BENTHIC SLED		RRH	3 18N	125 5W S	SOTW01WT
1541	20	172		TBES	H88 BENTHIC SLED		RRH	3 52N	125 58W S	SOTW01WT

28	172		TBES	H99 BENTHIC SLED	RRH	21	550S	131	70W	S	SOTW01WT
28	172		TBES	H101 BENTHICSLED	RRH	21	549S	131	79W	S	SOTW01WT
4	272		TBES	H109NG BENTHSLED	RRH	18	418S	141	227W	S	SOTW01WT
4	272		TBES	H110 BENTHIC SLE	RRH	18	402S	141	209W	S	SOTW01WT
5	272		TBES	H112NG BENTHSLED	RRH	18	463S	141	258W	S	SOTW01WT
6	272		TBES	H113 BENTHICSLED	RRH	18	447S	141	236W	S	SOTW01WT
8	272		TBES	H123NG BENTHSLED	RRH	20	18S	142	289W	S	SOTW01WT

REE VEHICLE CAMERA-CURATOR RICHARD SCHWARTZLOSE EXT. 1143

DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.		CRUISE LEG-SHIP
11	172		CAFB	H46 FREE BAITED	RRH	9	597N	123 90W	S	SOTW01WT
11	172		CAFU	H47 FREEUNBAITED	RRH	9	597N	123 90W	S	SOTW01WT
12	172		CAFB	H52 FREE BAITED	RRH	10	23N	123 100W	S	SOTW01WT
14	172		CAFB	H58 FREE BAITED	RRH	7	9N	123 533W	S	SOTW01WT
15	172		CAWS	H64 FREE STEREO	RRH	6	577N	123 549W	S	SOTW01WT
16	172		CAWS	H69 FREE STEREO	RRH	6	589N	124 24W	S	SOTW01WT
17	172		CAFU	H72 FREEUNBAITED	RRH	3	58N	125 32W	S	SOTW01WT
17	172		CAFU	H73 FREEUNBAITED	RRH	3	69N	125 37W	S	SOTW01WT
19	172		CAFB	H82 FREE BAITED	RRH	3	9N	124 597W	S	SOTW01WT
19	172		CAFB	H83 FREE BAITED	RRH	3	9N	124 595W	S	SOTW01WT
27	172		CAFB	H91 FREE BAITED	RRH	21	535S	131 29W	S	SOTW01WT
4	272		CAFU	H105 FREE UNBTD	RRH	18	435S	141 235W	S	SOTW01WT
4	272		CAFB	H106 FREE BAITED	RRH	18	435S	141 235W	S	SOTW01WT

IRE-LOWERED CAMERA-CURATOR T.E.CHASE 2D FLOOR AQUARIUM EXT.1534

DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.		CRUISE LEG-SHIP
12	172		CAWS	H55NG WIRESTEREO	RRH	10	15N	123 101W	S	SOTW01WT
20	172		CAWS	H87NG WIRESTEREO	RRH	3	19N	125 12W	S	SOTW01WT
20	172		CAWS	H89 WIRE STEREO	RRH	3	65N	125 78W	S	SOTW01WT
28	172		CAWS	H100 WIRE STEREO	RRH	21	555S	131 87W	S	SOTW01WT
5	272		CAWS	H111 WIRESTEREO	RRH	18	435S	141 225W	S	SOTW01WT
7	272		CAWS	H120 WIRESTEREO	RRH	20	6S	142 284W	S	SOTW01WT

FREE VEHICLE CURRENT METER- R. SCHWARTZLOSE

DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.		CRUISE LEG-SHIP
11	172		CMAB	H50 BOTTOM CURR	RRH	10	52N	123 60W	S	SOTW01WT
14	172		CMAB	H59 BOTTOM CURR	RRH	7	15N	123 529W	S	SOTW01WT
17	172		CMAB	H74 BOTTOM CURR	RRH	3	80N	125 38W	S	SOTW01WT
27	172		CMAB	H92 BOTTOM CURR	RRH	21	537S	131 30W	S	SOTW01WT
4	272		CMAB	H107 BOTTOM CURR	RRH	18	436S	141 234W	S	SOTW01WT

NON-SIO PROGRAMS-PROCESSOR J.L.COATSWORTH (EXT. 2846)

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

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.		CRUISE LEG-SHIP
30	8	172		ASNU	SOTW NUCLEI 1		AWH	25 290N	119 245W	S	SOTW01WT
617	8	172		ASNU	SOTW NUCLEI 2		AWH	24 152N	119 434W	S	SOTW01WT
1815	8	172		ASNU	SOTW NUCLEI 3		AWH	21 467N	120 240W	S	SOTW01WT
0	9	172		ASNU	SOTW NUCLEI 4		AWH	20 370N	120 413W	S	SOTW01WT
600	9	172		ASNU	SOTW NUCLEI 5		AWH	19 427N	120 556W	S	SOTW01WT
1226	9	172		ASNU	SOTW NUCLEI 6		AWH	18 258N	121 153W	S	SOTW01WT
1812	9	172		ASNU	SOTW NUCLEI 7		AWH	17 173N	121 337W	S	SOTW01WT
10	10	172		ASNU	SOTW NUCLEI 8		AWH	16 58N	121 507W	S	SOTW01WT
600	10	172		ASNU	SOTW NUCLEI 9		AWH	14 555N	122 70W	S	SOTW01WT
1217	10	172		ASNU	SOTW NUCLEI 10		AWH	13 390N	122 254W	S	SOTW01WT
1801	10	172		ASNU	SOTW NUCLEI 11		AWH	12 293N	122 425W	S	SOTW01WT
11	11	172		ASNU	SOTW NUCLEI 12		AWH	11 141N	123 2W	S	SOTW01WT
1800	13	172		ASNU	SOTW NUCLEI 13		AWH	9 157N	123 170W	S	SOTW01WT
105	14	172		ASNU	SOTW NUCLEI 14		AWH	7 550N	123 354W	S	SOTW01WT
620	14	172		ASNU	SOTW NUCLEI 15		AWH	6 584N	123 467W	S	SOTW01WT
1	17	172		ASNU	SOTW NUCLEI 16		AWH	5 596N	124 203W	S	SOTW01WT
550	17	172		ASNU	SOTW NUCLEI 17		AWH	5 13N	124 311W	S	SOTW01WT
1220	17	172		ASNU	SOTW NUCLEI 18		AWH	3 581N	124 457W	S	SOTW01WT
620	21	172		ASNU	SOTW NUCLEI 19		AWH	1 547N	125 266W	S	SOTW01WT
1206	21	172		ASNU	SOTW NUCLEI 20		AWH	0 483N	125 319W	S	SOTW01WT
2023	21	172		ASNU	SOTW NUCLEI 21		AWH	0 259S	125 352W	S	SOTW01WT
20	22	172		ASNU	SOTW NUCLEI 22		AWH	1 92S	125 434W	S	SOTW01WT
1210	22	172		ASNU	SOTW NUCLEI 23		AWH	3 214S	126 55W	S	SOTW01WT
1801	22	172		ASNU	SOTW NUCLEI 24		AWH	4 180S	126 156W	S	SOTW01WT
0	23	172		ASNU	SOTW NUCLEI 25		AWH	4 599S	126 253W	S	SOTW01WT
606	23	172		ASNU	SOTW NUCLEI 26		AWH	6 65S	126 372W	S	SOTW01WT
1209	23	172		ASNU	SOTW NUCLEI 27		AWH	7 181S	126 516W	S	SOTW01WT
1803	23	172		ASNU	SOTW NUCLEI 28		AWH	8 228S	127 47W	S	SOTW01WT
615	25	172		ASNU	SOTW NUCLEI 29		AWH	14 292S	128 88W	S	SOTW01WT
1814	26	172		ASNU	SOTW NUCLEI 30		AWH	21 65S	130 154W	S	SOTW01WT
1215	29	172		ASNU	SOTW NUCLEI 31		AWH	22 358S	131 74W	S	SOTW01WT
1804	29	172		ASNU	SOTW NUCLEI 32		AWH	23 370S	131 53W	S	SOTW01WT
56	30	172		ASNU	SOTW NUCLEI 33		AWH	23 534S	130 76W	S	SOTW01WT
625	30	172		ASNU	SOTW NUCLEI 34		AWH	24 160S	129 295W	S	SOTW01WT
1810	30	172		ASNU	SOTW NUCLEI 35		AWH	25 158S	129 552W	S	SOTW01WT
600	1	272		ASNU	SOTW NUCLEI 36		AWH	24 534S	130 305W	S	SOTW01WT
1200	1	272		ASNU	SOTW NUCLEI 37		AWH	24 228S	131 405W	S	SOTW01WT
1808	1	272		ASNU	SOTW NUCLEI 38		AWH	23 498S	132 514W	S	SOTW01WT
2	2	272		ASNU	SOTW NUCLEI 39		AWH	23 227S	134 31W	S	SOTW01WT
615	2	272		ASNU	SOTW NUCLEI 40		AWH	22 499S	135 149W	S	SOTW01WT
1210	2	272		ASNU	SOTW NUCLEI 41		AWH	22 230S	136 239W	S	SOTW01WT
1800	2	272		ASNU	SOTW NUCLEI 42		AWH	21 562S	137 308W	S	SOTW01WT
2346	2	272		ASNU	SOTW NUCLEI 43		AWH	21 122S	138 222W	S	SOTW01WT
615	3	272		ASNU	SOTW NUCLEI 44		AWH	20 170S	139 140W	S	SOTW01WT
1154	3	272		ASNU	SOTW NUCLEI 45		AWH	19 280S	139 598W	S	SOTW01WT
2040	3	272		ASNU	SOTW NUCLEI 46		AWH	18 157S	141 131W	S	SOTW01WT
2354	3	272		ASNU	SOTW NUCLEI 47		AWH	18 348S	141 165W	S	SOTW01WT
1145	6	272		ASNU	SOTW NUCLEI 48		AWH	19 34S	141 412W	S	SOTW01WT
600	9	272		ASNU	SOTW NUCLEI 49		AWH	18 311S	146 344W	S	SOTW01WT
1805	8	272		ASNU	SOTW NUCLEI 50		AWH	19 230S	144 146W	S	SOTW01WT

9	9	272		ASNU	SOTW NUCLEI 52		AWH	18	312S	146	342W	S	SOTW01I

IRON 55-PLANKTON-C.D.JENNINGS ORE. COLL. EDUCATION

E T	DATE D.	M.	Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.		LONG.			CRUISE LEG-SHIP
1	9		172			TMFE B	SOTW IRON55-1		CDJ	19 598N		120 510W		S	SOTW01WT
5	9		172			TMFE E	SOTW IRON55-1		CDJ	19 568N		120 517W		S	SOTW01WT
0	12		172			TMFE B	SOTW IRON55-2		CDJ	10 56N		123 114W		S	SOTW01WT
0	12		172			TMFE E	SOTW IRON55-2		CDJ	10 70N		123 107W		S	SOTW01WT
5	20		172			TMFE B	SOTW IRON55-3		CDJ	3 56N		125 65W		S	SOTW01WT
5	20		172			TMFE E	SOTW IRON55-3		CDJ	3 64N		125 77W		S	SOTW01WT
3	24		172			TMFE B	SOTW IRON55-4		CDJ	10 4S		127 222W		S	SOTW01WT
0	24		172			TMFE E	SOTW IRON55-4		CDJ	10 23S		127 230W		S	SOTW01WT
0	29		172			TMFE B	SOTW IRON55-5		CDJ	21 588S		131 50W		S	SOTW01WT
0	29		172			TMFE E	SOTW IRON55-5		CDJ	22 15S		131 57W		S	SOTW01WT
8	30		172			TMFE B	SOTW IRON55-6		CDJ	24 528S		129 296W		S	SOTW01WT
3	30		172			TMFE E	SOTW IRON55-6		CDJ	25 12S		129 320W		S	SOTW01WT

BATHYTHERMOGRAPHS - CURATOR MARGARET ROBINSON (EXT.1135)

BATHYTHERMOGRAPH ****

E T	DATE D.	M.	Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.		LONG.			CRUISE LEG-SHIP
3	8		172			BTX	SOTW BATHY 1		BTS	24 202N		119 421W		S	SOTW01WT
4	8		172			BTX	SOTW BATHY 2		BTS	22 511N		120 71W		S	SOTW01WT
0	8		172			BTX	SOTW BATHY 3		BTS	21 436N		120 247W		S	SOTW01WT
0	9		172			BTX	SOTW BATHY 4		BTS	20 370N		120 413W		S	SOTW01WT
0	9		172			BTX	SOTW BATHY 5		BTS	19 407N		120 561W		S	SOTW01WT
2	9		172			BTX	SOTW BATHY 6		BTS	18 325N		121 136W		S	SOTW01WT
0	9		172			BTX	SOTW BATHY 7		BTS	17 217N		121 327W		S	SOTW01WT
0	9		172			BTX	SOTW BATHY 8		BTS	16 118N		121 492W		S	SOTW01WT
5	10		172			BTX	SOTW BATHY 9		BTS	14 545N		122 72W		S	SOTW01WT
1	10		172			BTX	SOTW BATHY 10		BTS	13 422N		122 245W		S	SOTW01WT
4	10		172			BTX	SOTW BATHY 11		BTS	12 287N		122 426W		S	SOTW01WT
0	11		172			BTX	SOTW BATHY 12		BTS	11 122N		123 4W		S	SOTW01WT
5	13		172			BTX	SOTW BATHY 13		BTS	9 148N		123 172W		S	SOTW01WT
5	14		172			BTX	SOTW BATHY 14		BTS	8 44N		123 336W		S	SOTW01WT
0	14		172			BTX	SOTW BATHY 15		BTS	6 584N		123 467W		S	SOTW01WT
5	14		172			BTX	SOTW BATHY 16		BTS	7 10N		123 534W		S	SOTW01WT
5	17		172			BTX	SOTW BATHY 17		BTS	5 589N		124 205W		S	SOTW01WT
9	17		172			BTX	SOTW BATHY 18		BTS	5 13N		124 307W		S	SOTW01WT
8	17		172			BTX	SOTW BATHY 19		BTS	4 4N		124 450W		S	SOTW01WT
6	21		172			BTX	SOTW BATHY 20		BTS	1 573N		125 266W		S	SOTW01WT
6	21		172			BTX	SOTW BATHY 21		BTS	0 483N		125 319W		S	SOTW01WT
10	22		172			BTX	SOTW BATHY 23		BTS	1 7		25 429W		S	SOTW01WT
1801	22		172			BTX	SOTW BATHY 24		BTS	4 18		26 156W		S	SOTW01WT
29	23		172			BTX	SOTW BATHY 25		BTS	5 21S		126 256W		S	SOTW01WT
29	22		172			BTX	SOTW BATHY 26		BTS	1 108S		125 440W		S	SOTW01WT
606	23		172			BTX	SOTW BATHY 27		BTS	6 65S		126 372W		S	SOTW01WT
1155	23		172			BTX	SOTW BATHY 28		BTS	7 153S		126 508W		S	SOTW01WT
1807	23		172			BTX	SOTW BATHY 29		BTS	8 234S		127 48W		S	SOTW01WT
5	24		172			BTX	SOTW BATHY 30		BTS	9 233S		127 161W		S	SOTW01WT
1845	24		172			BTX	SOTW BATHY 31		BTS	12 137S		127 456W		S	SOTW01WT
13	25		172			BTX	SOTW BATHY 32		BTS	13 171S		128 23W		S	SOTW01WT
610	25		172			BTX	SOTW BATHY 33		BTS	14 282S		128 87W		S	SOTW01WT
1143	25		172			BTX	SOTW BATHY 34		BTS	15 343S		128 206W		S	SOTW01WT
0	26		172			BTX	SOTW BATHY 35		BTS	17 574S		128 462W		S	SOTW01WT
601	26		172			BTX	SOTW BATHY 36		BTS	19 89S		128 591W		S	SOTW01WT
1149	26		172			BTX	SOTW BATHY 37		BTS	20 122S		129 194W		S	SOTW01WT
1805	26		172			BTX	SOTW BATHY 38		BTS	21 53S		130 140W		S	SOTW01WT
1200	29		172			BTX	SOTW BATHY 39		BTS	22 333S		131 73W		S	SOTW01WT
1804	29		172			BTX	SOTW BATHY 40		BTS	23 370S		131 53W		S	SOTW01WT
0	30		172			BTX	SOTW BATHY 41		BTS	23 533S		130 187W		S	SOTW01WT
614	30		172			BTX	SOTW BATHY 42		BTS	24 141S		129 295W		S	SOTW01WT
1820	30		172			BTX	SOTW BATHY 43		BTS	25 172S		129 547W		S	SOTW01WT
600	1		272			BTX	SOTW BATHY 44		BTS	24 534S		130 305W		S	SOTW01WT
1815	1		272			BTX	SOTW BATHY 45		BTS	23 493S		132 528W		S	SOTW01WT
2	2		272			BTX	SOTW BATHY 46		BTS	23 227S		134 31W		S	SOTW01WT
606	2		272			BTX	SOTW BATHY 47		BTS	22 505S		135 131W		S	SOTW01WT
1208	2		272			BTX	SOTW BATHY 48		BTS	22 232S		136 235W		S	SOTW01WT
1800	2		272			BTX	SOTW BATHY 49		BTS	21 562S		137 308W		S	SOTW01WT
6	3		272			BTX	SOTW BATHY 50		BTS	21 96S		138 251W		S	SOTW01WT
610	3		272			BTX	SOTW BATHY 51		BTS	20 177S		139 133W		S	SOTW01WT
1206	3		272			BTX	SOTW BATHY 52		BTS	19 262S		140 14W		S	SOTW01WT
2000	3		272			BTX	SOTW-BATHY-53		BTS	18 205S		141 82W		S	SOTW01WT
14	4		272			BTX	SOTW BATHY 54		BTS	18 380S		141 191W		S	SOTW01WT
1200	6		272			BTX	SOTW BATHY 55		BTS	19 58S		141 432W		S	SOTW01WT
1205	8		272			BTX	SOTW BATHY 56		BTS	19 497S		143 36W		S	SOTW01WT
1810	8		272			BTX	SOTW BATHY 57		BTS	19 226S		144 156W		S	SOTW01WT
0	9		272			BTX	SOTW BATHY 58		BTS	18 571S		145 245W		S	SOTW01WT
625	9		272			BTX	SOTW BATHY 59		BTS	18 294S		146 392W		S	SOTW01WT
1202	9		272			BTX	SOTW BATHY 60		BTS	18 34S		147 440W		S	SOTW01WT
1752	9		272			BTX	SOTW BATHY 61		BTS	17 390S		148 540W		S	SOTW01WT

ISOTOPE CHEMISTRY-CURATORS W.L.KOSIBA EXT.1650 .T.R.FULSOM EXT.2493

CARBON 14--KOSIBA

TIME GMT	DATE D.	M.	Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.		LONG.			CRUISE LEG-SHIP
827	8		172			SS14	SOTW CARBON14-1		WLK	23 481N		119 505W		S	SOTW01WT
827	8		172			SSSA	SOTW CAR14-1-SAL		WLK	23 481N		119 505W		S	SOTW01WT
1800	8		172			SS14	SOTW CARBON14-2		WLK	21 498N		120 233W		S	SOTW01WT
1800	8		172			SSSA	SOTW CAR14-2-SAL		WLK	21 498N		120 233W		S	SOTW01WT
400	9		172			SS14	SOTW CARBON14-3		WLK	19 578N		120 514W		S	SOTW01WT
400	9		172			SSSA	SOTW CAR14-3-SAL		WLK	19 578N		120 514W		S	SOTW01WT
2342	9		172			SS14	SOTW CARBON14-4		WLK	16 114N		121 493W		S	SOTW01WT
2342	9		172			SSSA	SOTW CAR14-4-SAL		WLK	16 114N		121 493W		S	SOTW01WT
2339	9		172			SS14	SOTW CARBON14-5		WLK	16 120N		121 491W		S	SOTW01WT

12	172		14	SOTW	CARBON14-6	WLK	10	51N	123	112W	S	SOTW01WT
12	172		3A	SOTW	CAR14-6-SAL	WLK	10	51N	123	112W	S	SOTW01WT
14	172		SS14	SOTW	CARBON14-7	WLK	7	337N	123	386W	S	SOTW01WT
14	172		SSSA	SOTW	CAR14-7-SAL	WLK	7	337N	123	386W	S	SOTW01WT
17	172		SS14	SOTW	CARBON14-8	WLK	3	166N	124	587W	S	SOTW01WT
17	172		SSSA	SOTW	CAR14-8-SAL	WLK	3	166N	124	587W	S	SOTW01WT
21	172		SS14	SOTW	CARBON14-9	WLK	0	106S	125	326W	S	SOTW01WT
21	172		SSSA	SOTW	CAR14-9-SAL	WLK	0	106S	125	326W	S	SOTW01WT
22	172		SS14	SOTW	CARBON14-10	WLK	2	23S	125	536W	S	SOTW01WT
22	172		SSSA	SOTW	CAR14-10SAL	WLK	2	23S	125	536W	S	SOTW01WT
22	172		SS14	SOTW	CARBON14-11	WLK	4	42S	126	122W	S	SOTW01WT
22	172		SSSA	SOTW	CAR14-11SAL	WLK	4	42S	126	122W	S	SOTW01WT
23	172		SS14	SOTW	CARBON14-12	WLK	6	65S	126	372W	S	SOTW01WT
23	172		SSSA	SOTW	CAR14-12SAL	WLK	6	65S	126	372W	S	SOTW01WT
23	172		SS14	SOTW	CARBON14-13	WLK	8	30S	127	8W	S	SOTW01WT
23	172		SSSA	SOTW	CAR14-13SAL	WLK	8	30S	127	8W	S	SOTW01WT
24	172		SS14	SOTW	CARBON14-14	WLK	10	6S	127	223W	S	SOTW01WT
24	172		SSSA	SOTW	CAR14-14SAL	WLK	10	6S	127	223W	S	SOTW01WT
25	172		SS14	SOTW	CARBON14-15	WLK	13	576S	128	57W	S	SOTW01WT
25	172		SSSA	SOTW	CAR14-15SAL	WLK	13	576S	128	57W	S	SOTW01WT
25	172		SS14	SOTW	CARBON14-16	WLK	15	521S	128	241W	S	SOTW01WT
25	172		SSSA	SOTW	CAR14-16SAL	WLK	15	521S	128	241W	S	SOTW01WT
26	172		SS14	SOTW	CARBON14-17	WLK	18	408S	128	537W	S	SOTW01WT
26	172		SSSA	SOTW	CAR14-17SAL	WLK	18	408S	128	537W	S	SOTW01WT
26	172		SS14	SOTW	CARBON14-18	WLK	20	147S	129	219W	S	SOTW01WT
26	172		SSSA	SOTW	CAR14-18SAL	WLK	20	147S	129	219W	S	SOTW01WT
27	172		SS14	SOTW	CARBON14-19	WLK	21	543S	131	29W	S	SOTW01WT
27	172		SSSA	SOTW	CAR14-19SAL	WLK	21	543S	131	29W	S	SOTW01WT

TRITIUM-H3-KOSIBA

DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.		CRUISE LEG-SHIP
13	172		HCH3	SOTW TRIT CAST 1		WLK 10	18N	123 103W	S	SOTW01WT
17	172		HCH3	SOTW TRIT CAST 2		WLK 5	13N	124 315W	S	SOTW01WT
21	172		HCH3	SOTW TRIT CAST 3		WLK 0	276N	125 308W	S	SOTW01WT
22	172		HCH3	SOTW TRIT CAST 4		WLK 4	586S	126 252W	S	SOTW01WT
24	172		HCH3	SOTW TRIT CAST 5		WLK 9	591S	127 215W	S	SOTW01WT
7	172		SSH3	SOTW TRITIUM-1		WLK 25	534N	119 188W	S	SOTW01WT
7	172		SSSA	SOTW TRIT-1-SAL		WLK 25	534N	119 188W	S	SOTW01WT
8	172		SSH3	SOTW TRITIUM-2		WLK 23	585N	119 478W	S	SOTW01WT
8	172		SSSA	SOTW TRIT-2-SAL		WLK 23	585N	119 478W	S	SOTW01WT
8	172		SSH3	SOTW TRITIUM-3		WLK 21	571N	120 215W	S	SOTW01WT
8	172		SSSA	SOTW TRIT-3-SAL		WLK 21	571N	120 215W	S	SOTW01WT
9	172		SSH3	SOTW TRITIUM-4		WLK 19	599N	120 509W	S	SOTW01WT
9	172		SSSA	SOTW TRIT-4-SAL		WLK 19	599N	120 509W	S	SOTW01WT
9	172		SSH3	SOTW TRITIUM-5		WLK 18	5N	121 226W	S	SOTW01WT
9	172		SSSA	SOTW TRIT-5-SAL		WLK 18	5N	121 226W	S	SOTW01WT
9	172		SSH3	SOTW TRITIUM-6		WLK 16	114N	121 493W	S	SOTW01WT
9	172		SSSA	SOTW TRIT-6-SAL		WLK 16	114N	121 493W	S	SOTW01WT
10	172		SSH3	SOTW TRITIUM-7		WLK 13	520N	122 220W	S	SOTW01WT
10	172		SSSA	SOTW TRIT-7-SAL		WLK 13	520N	122 220W	S	SOTW01WT
10	172		SSH3	SOTW TRITIUM-8		WLK 11	434N	122 540W	S	SOTW01WT
10	172		SSSA	SOTW TRIT-8-SAL		WLK 11	434N	122 540W	S	SOTW01WT
12	172		SSH3	SOTW TRITIUM-9		WLK 10	51N	123 112W	S	SOTW01WT
12	172		SSSA	SOTW TRIT-9-SAL		WLK 10	51N	123 112W	S	SOTW01WT
14	14	172		SSSA	SOTW TRIT-10-SAL		WLK 7	534N		6W	S	SOTW01WT
54	16	172		SSH3	SOTW TRITIUM-11		WLK 6	9N		00W	S	SOTW01WT
2354	16	172		SSSA	SOTW TRIT-11-SAL		WLK 6	9N	124	200W	S	SOTW01WT
1404	17	172		SSH3	SOTW TRITIUM-12		WLK 3	384N	124	519W	S	SOTW01WT
1404	17	172		SSSA	SOTW TRIT-12-SAL		WLK 3	384N	124	519W	S	SOTW01WT
640	21	172		SSH3	SOTW TRITIUM-13		WLK 1	509N	125	266W	S	SOTW01WT
640	21	172		SSSA	SOTW TRIT-13-SAL		WLK 1	509N	125	266W	S	SOTW01WT
2024	21	172		SSH3	SOTW TRITIUM-14		WLK 0	261S	125	352W	S	SOTW01WT
2024	21	172		SSSA	SOTW TRIT-14-SAL		WLK 0	261S	125	352W	S	SOTW01WT
454	22	172		SSH3	SOTW TRITIUM-15		WLK 2	23S	125	536W	S	SOTW01WT
454	22	172		SSSA	SOTW TRIT-15-SAL		WLK 2	23S	125	536W	S	SOTW01WT
1635	22	172		SSH3	SOTW TRITIUM-16		WLK 4	42S	126	122W	S	SOTW01WT
1635	22	172		SSSA	SOTW TRIT-16-SAL		WLK 4	42S	126	122W	S	SOTW01WT
606	23	172		SSH3	SOTW TRITIUM-17		WLK 6	65S	126	372W	S	SOTW01WT
606	23	172		SSSA	SOTW TRIT-17-SAL		WLK 6	65S	126	372W	S	SOTW01WT
1600	23	172		SSH3	SOTW TRITIUM-18		WLK 8	30S	127	8W	S	SOTW01WT
1600	23	172		SSSA	SOTW TRIT-18-SAL		WLK 8	30S	127	8W	S	SOTW01WT
530	24	172		SSH3	SOTW TRITIUM-19		WLK 10	6S	127	223W	S	SOTW01WT
530	24	172		SSSA	SOTW TRIT-19-SAL		WLK 10	6S	127	223W	S	SOTW01WT
1859	24	172		SSH3	SOTW TRITIUM-20		WLK 12	164S	127	463W	S	SOTW01WT
1859	24	172		SSSA	SOTW TRIT-20-SAL		WLK 12	164S	127	463W	S	SOTW01WT
337	25	172		SSH3	SOTW TRITIUM-21		WLK 13	576S	128	57W	S	SOTW01WT
337	25	172		SSSA	SOTW TRIT-21-SAL		WLK 13	576S	128	57W	S	SOTW01WT
1315	25	172		SSH3	SOTW TRITIUM-22		WLK 15	521S	128	241W	S	SOTW01WT
1315	25	172		SSSA	SOTW TRIT-22-SAL		WLK 15	521S	128	241W	S	SOTW01WT
337	26	172		SSH3	SOTW TRITIUM-23		WLK 18	408S	128	537W	S	SOTW01WT
337	26	172		SSSA	SOTW TRIT-23-SAL		WLK 18	408S	128	537W	S	SOTW01WT
1101	26	172		SSH3	SOTW TRITIUM-24		WLK 20	55S	129	128W	S	SOTW01WT
1101	26	172		SSSA	SOTW TRIT-24-SAL		WLK 20	55S	129	128W	S	SOTW01WT
600	30	172		SSH3	SOTW TRITIUM-25		WLK 24	116S	129	295W	S	SOTW01WT
600	30	172		SSSA	SOTW TRIT-25-SAL		WLK 24	116S	129	295W	S	SOTW01WT

INVERTEBRATE BIOLOGY-CURATOR ABRAHAM FLEMINGER (EXT. 1131)

HEAVY METALS ASSAY--J.A.MCGOWAN

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.		CRUISE LEG-SHIP
650	24	172		ONHM B	SOTW HEAVYMETAL1		JAM 10	26S	127 231W	S	SOTW01WT
756	24	172		ONHM E	SOTW HEAVYMETAL1		JAM 10	50S	127 239W	S	SOTW01WT
500	29	172		ONHM B	SOTW HEAVYMETAL2		JAM 21	546S	131 35W	S	SOTW01WT
640	29	172		ONHM E	SOTW HEAVYMETAL2		JAM 21	582S	131 48W	S	SOTW01WT
900	5	272		ONHM B	SOTW HEAVYMETAL3		JAM 18	442S	141 223W	S	SOTW01WT
1040	5	272		ONHM E	SOTW HEAVYMETAL3		JAM 18	440S	141 213W	S	SOTW01WT

E T	DATE D.M.Y.	TIME LOC	LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.		CRUISE LEG-SHIP
0	15 172			DNS	SOTW DIPNET 1		LCL	6 57BN	123 550W	S	SOTW01WT
0	13 172			SNS	SOTW H2OSTRIDER1		LCL 10	38N	123 127W	S	SOTW01WT
5	17 172			SNS	SOTW H2OSTRIDER2		LCL 5	11N	124 302W	S	SOTW01WT
0	22 172		B	SNS	SOTW H2OSTRIDER3		LCL 4	592S	126 253W	S	SOTW01WT
9	23 172		E	SNS	SOTW H2OSTRIDER3		LCL 5	21S	126 256W	S	SOTW01WT
0	24 172		B	SNS	SOTW H2OSTRIDER4		LCL 10	6S	127 223W	S	SOTW01WT
0	24 172		E	SNS	SOTW H2OSTRIDER4		LCL 10	14S	127 226W	S	SOTW01WT

S.I.O. SAMPLE INDEX - STATUS REPORT

The SIO Sample Index, developed at the request of the SIO Oceanographic Collections Committee, provides the basic information that a sample of a given type was taken at a particular time and place on cruises sponsored by the institution ("sample" includes analogue records, plots, measured values, and log books in addition to rocks, mud, water, and fish).

The base of the system is a computer card for each sample (two cards for samples beginning at one position and ending at another) containing a sample type and subtype code for computer sorting, a sample identifier, time, date, position and disposition information as well as ship, cruise, and leg identification. For those cruises having computer processed navigation, the navigation file is accessed during shore processing to add the corrected position to all entries in the sample index file.

At the present stage of development, encoding forms are filled out at sea by the Resident Tech or a member of the scientific party. These are edited and keypunched on shore, fed into the IBM 1800 computer and new cards punched with corrected navigation. The cards are then hand sorted by sample type and header cards added to produce the listings of samples for each cruise leg. This information will be distributed to the chief scientists, the curators and those responsible for reporting to the funding agencies. During the next few months, programs will be written to permit computer generation of customized output for individual S.I.O. researchers (e.g. you will be able to specify that you wish to receive information about cores, net tows, hydrocasts, etc. but not about fathograms or BTs) In the future, if there proves to be sufficient interest and support, index data for past cruises can be added and the data base transferred to a larger computer so that all the cruise data will be accesible by individuals requesting information on samples satisfying particular conditions (all piston cores in a given geographical area, or all net tows collected during a given time of day, month or year).

The index operation is being administered through the Scientific Support Division. Funding in small amounts is presently being obtained from a variety of temporary sources; a request has been submitted for future support under general S.I.O. ship block funding. Jim Coatsworth designated Index Coordinator will manage the operation of the index, including pre-cruise conferences with chief scientists, updating the sample type and disposition codes as well as supervising the processing and distribution. Janice Marks has recently been hired to continue computer program development. Stuart Smith and the Oceanographic Collections Committee will continue to give general guidance to the project.

Attached are listings of (1) Table of Sample Type and Subtype Codes, (2) Encoding Form Instructions, (3) Table of Disposition Codes and (4) Samples from one leg of a recent expedition.