

PRELIMINARY REPORT AND INDEX  
OF  
NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA  
SOUTHTOW EXPEDITION  
LEG 4

R/V WASHINGTON

Antofagasta, Chile (26 April 1972)  
To  
Callao, Peru (14 May 1972)

Chief Scientist, Leg 4 - R. Schwartzlose

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

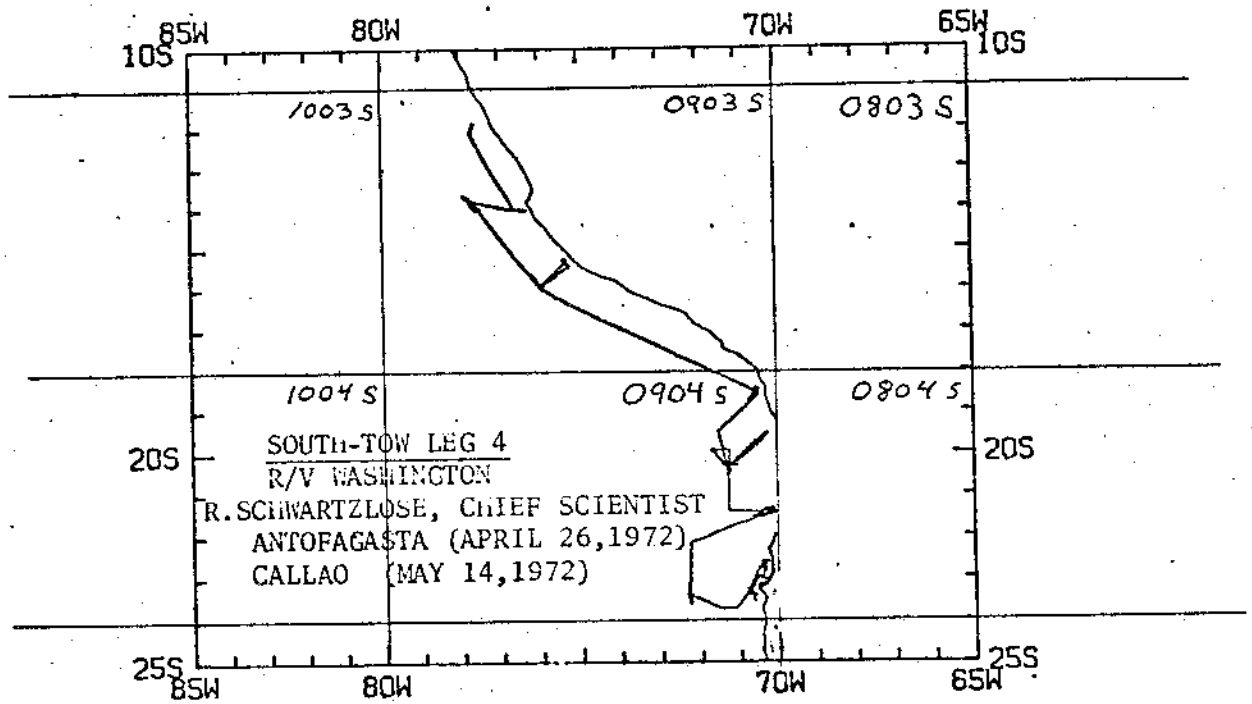
## Preliminary Report and Index of Navigation, Depth, Magnetic and Subbottom Profiler Data

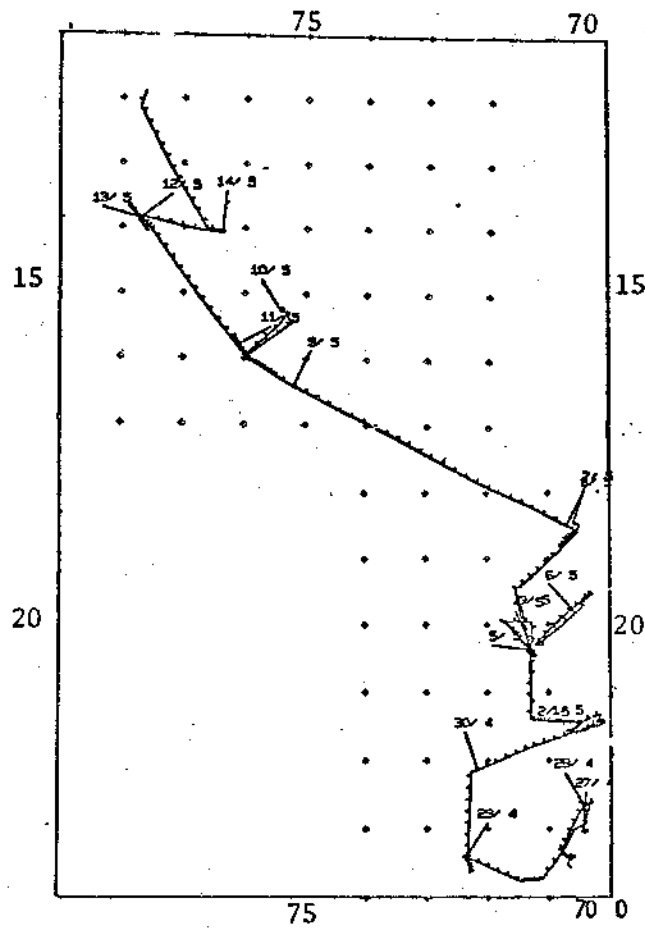
### Contents:

- 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):

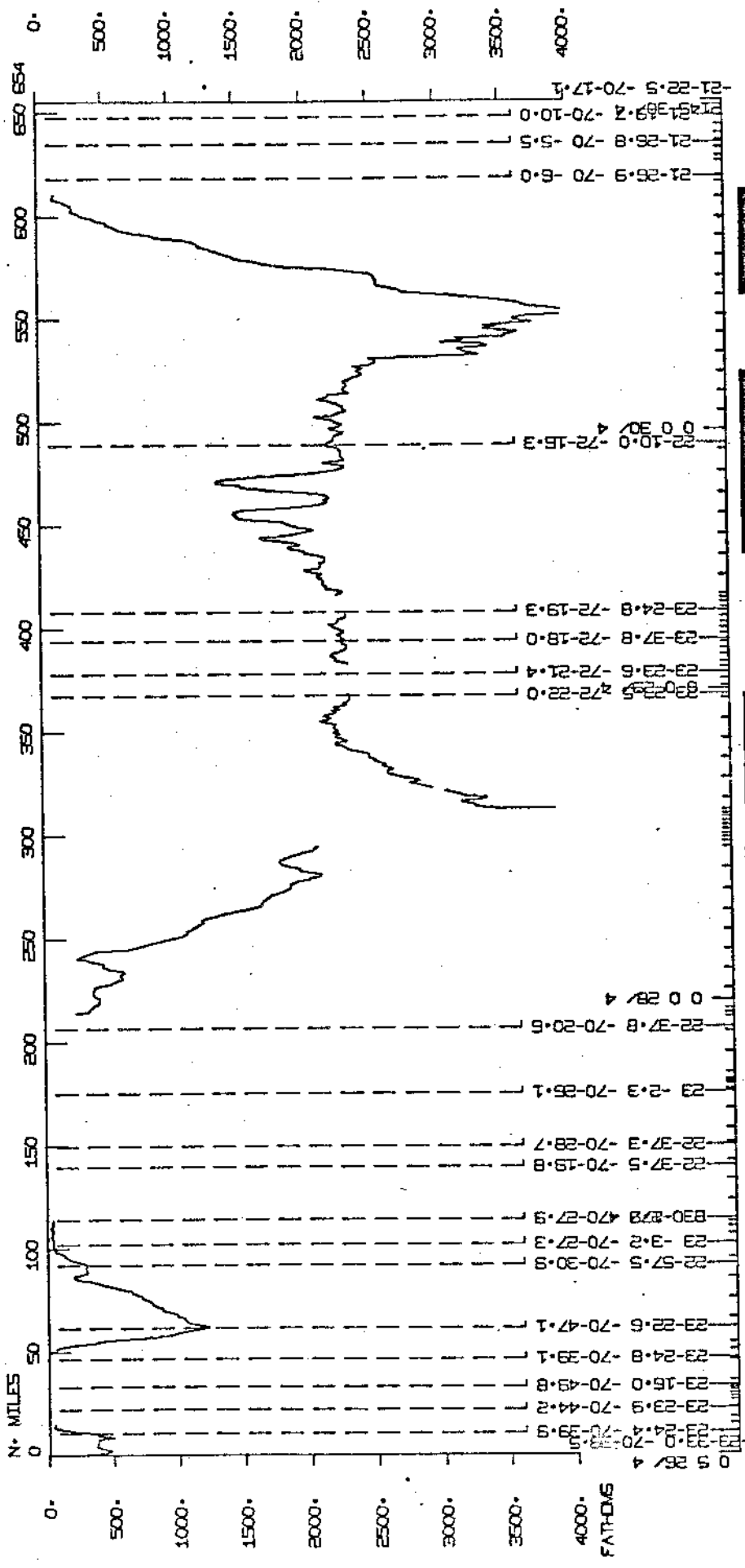
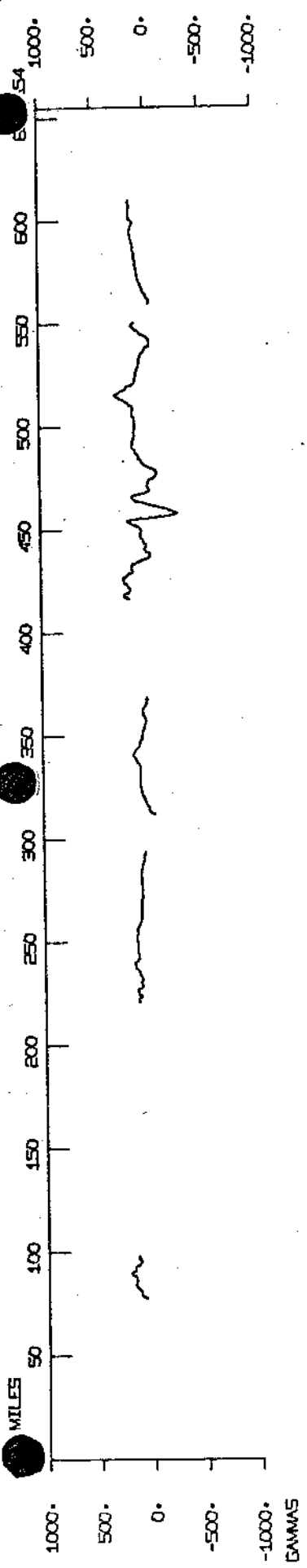
1. Navigation listing of times and positions of course and speed changes, fixes and drift velocity.
2. Depth compilation plots - in fathoms (assumed sound velocity of 800 fm./sec.) at approximately 1 mile spacing, plotted at 4"/degree with standard U.S. Navy Oceanographic Office BC series boundaries (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





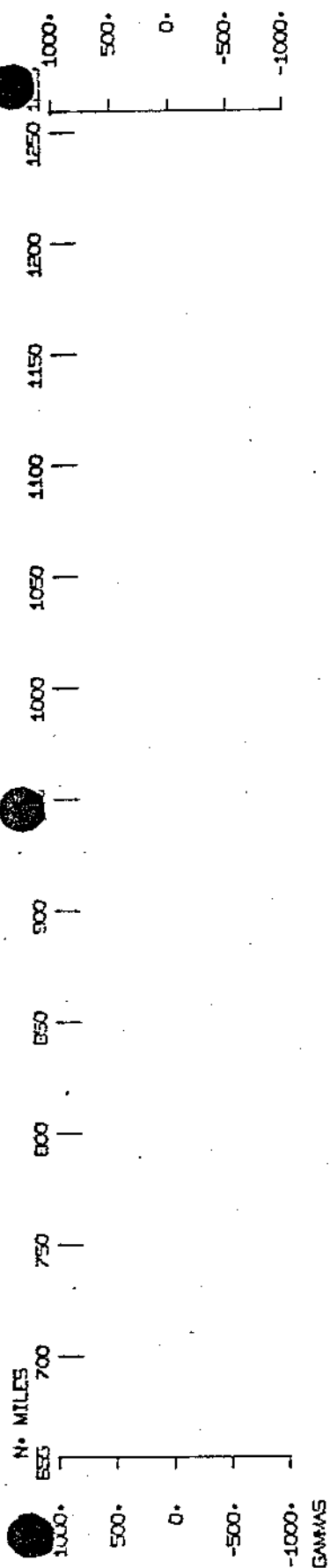
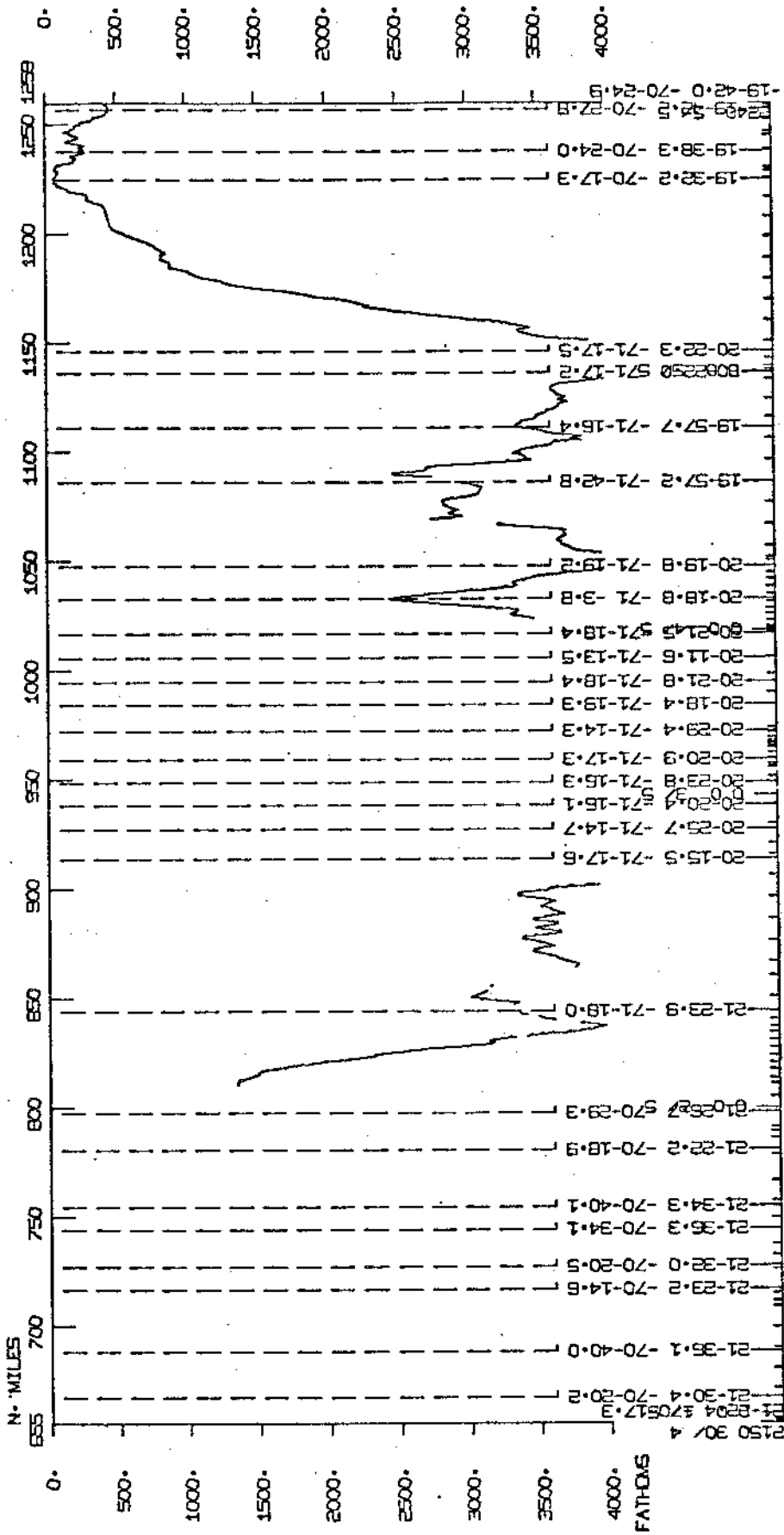
SOUTH-TOW LEG-4 track plot

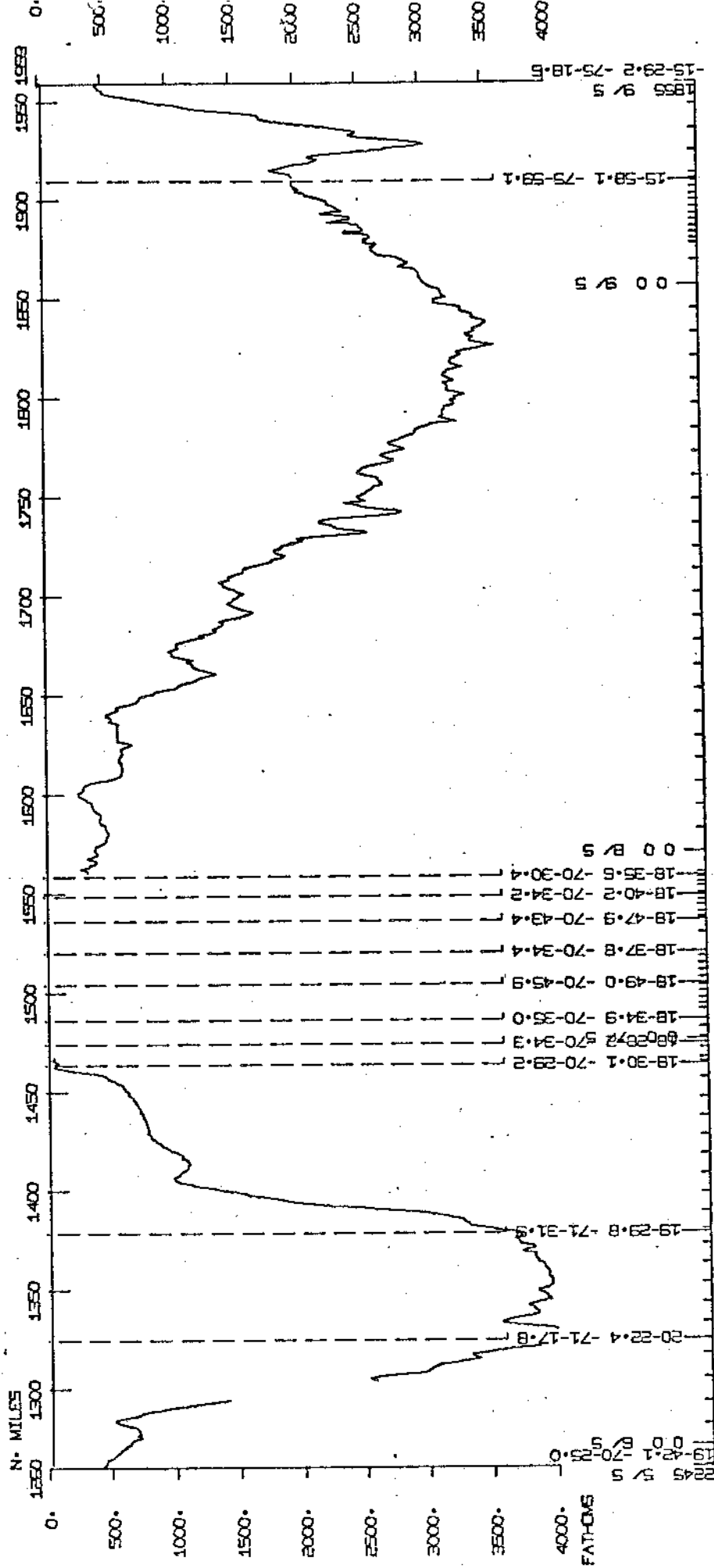
# SOUTHWIM LEG 4



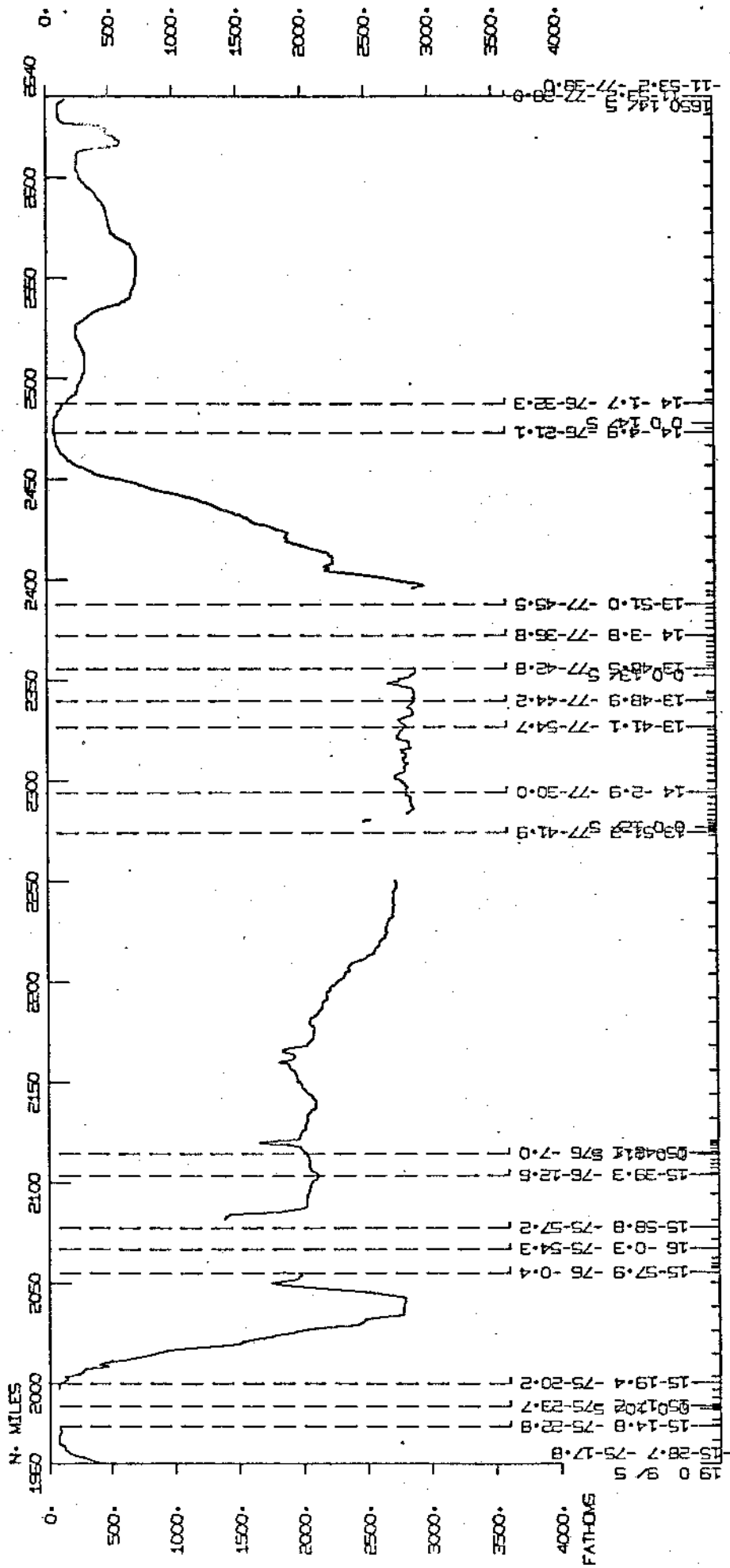
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23-24-8 -70-39.1  
23-16-0 -70-49.8  
23-23-9 -70-44.2  
23-0-14 -70-59.9  
23-0-14 -70-59.9  
23-22-5 -72-22.0  
23-23-6 -72-21.4  
23-37-8 -72-18.0  
23-24-8 -72-19.3  
22-10-0 -72-15.3  
0 0 28 4  
22-37-8 -70-20.5  
23-2-3 -70-25.1  
22-37-3 -70-28.7  
22-37-5 -70-19.8  
23-3-2 -70-27.3  
22-57-5 -70-30.9  
23-22-5 -70-47.1  
23-24-8 -70-39.1  
23-16-0 -70-49.8  
23-23-9 -70-44.2  
23-0-14 -70-59.9  
23-0-14 -70-59.9

# SOUTHWEST LEG 4





SOUTH W LCC 4





SOUTH TOW EXPEDITION LEG 4 SAMPLE INDEX DATA

LISTED 15 AUGUST 1972

2357	25	472	LG	B	ANTOFAGASTACHILE	0	ON	0	OE	SOTW04WT
1200	15	572	LG	E	CALLAU PERU	0	ON	0	OE	SOTW04WT
0	0	0	PECS	R.	L. WISNER	0	ON	0	OE	SOTW04WT
0	0	0	PERT	J.	A. WELLS	0	ON	0	OE	SOTW04WT
0	0	0	PECT	C.	M. BUTLER	0	ON	0	OE	SOTW04WT
0	0	0	PEAT	D.	NCKINNEY	0	ON	0	OE	SOTW04WT
0	0	0	PE	V.	ALARCUN	0	ON	0	OE	SOTW04WT
0	0	0	PE	M.	BACCINI	0	ON	0	OE	SOTW04WT
0	0	0	PE	J.	CARVAJAL	0	ON	0	OE	SOTW04WT
0	0	0	PE	G.	COUKE	0	ON	0	OE	SOTW04WT
0	0	0	PE	R.	DESQUEYROUX	0	ON	0	OE	SOTW04WT
0	0	0	PE	K.	LEE	0	ON	0	OE	SOTW04WT
0	0	0	PE	S.	LUKE	0	ON	0	OE	SOTW04WT
0	0	0	PE	W.	PWELL	0	ON	0	OE	SOTW04WT
0	0	0	PE	M.	PRITCHARD	0	ON	0	OE	SOTW04WT
0	0	0	PE	I.	SEPULVEDA	0	ON	0	OE	SOTW04WT
0	0	0	PE	M.	SESSIONS	0	ON	0	OE	SOTW04WT
0	0	0	PE	A.	SOUTAR	0	ON	0	OE	SOTW04WT
0	0	0	PE	W.	URQUIZO	0	ON	0	OE	SOTW04WT

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

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

\*\*\*FATHIGRAMS \*\*\*

TIME GMT	DATE D.M.Y.	TZ LOC	SAMP CODE	SAMPLE IDENT.	SEQ. DISP NUM. CODE	LAT.	LONG.	CRUISE LEG-SHIP
2357	25	472	DPRT B	GDR 12KHZ-ROLL 1	GDC 23	332S	70 391W	S SOTW04WT
845	28	472	DPRT E	GDR 12KHZ-ROLL 1	GDC 23	447S	71 91W	S SOTW04WT
1720	28	472	DPRT B	GDR 12KHZ-ROLL 2	GDC 23	458S	71 272W	S SOTW04WT
1346	1	572	DPRT E	GDR 12KHZ-ROLL 2	GDC 21	340S	70 241W	S SOTW04WT
1350	1	572	DPRT B	GDR 12KHZ-ROLL 3	GDC 21	342S	70 249W	S SOTW04WT
1045	2	572	DPRT E	GDR 12KHZ-ROLL 3	GDC 21	247S	71 132W	S SOTW04WT
1100	2	572	DPRT B	GDR 12KHZ-ROLL 4	GDC 21	246S	71 141W	S SOTW04WT
0	4	572	DPRT E	GDR 12KHZ-ROLL 4	GDC 20	208S	71 176W	S SOTW04WT
515	4	572	DPRT B	GDR 12KHZ-ROLL 5	GDC 20	189S	71 137W	S SOTW04WT
2300	7	572	DPRT E	GDR 12KHZ-ROLL 5	GDC 18	349S	70 319W	S SOTW04WT
2300	7	572	DPRT B	GDR 12KHZ-ROLL 6	GDC 18	349S	70 319W	S SOTW04WT
515	10	572	DPRT E	GDR 12KHZ-ROLL 6	GDC 15	175S	75 198W	S SOTW04WT
530	10	572	DPRT B	GDR 12KHZ-ROLL 7	GDC 15	170S	75 199W	S SOTW04WT
1243	11	572	DPRT E	GDR 12KHZ-ROLL 7	GDC 14	497S	76 555W	S SOTW04WT
1250	11	572	DPRT B	GDR 12KHZ-ROLL 8	GDC 14	486S	76 564W	S SOTW04WT
2100	11	572	DPRT E	GDR 12KHZ-ROLL 8	GDC 13	506S	77 419W	S SOTW04WT
2115	11	572	DPRT B	GDR 12KHZ-ROLL 9	GDC 13	508S	77 419W	S SOTW04WT
30	15	572	DPRT E	GDR 12KHZ-ROLL 9	GDC 12	0S	77 0W	S SOTW04WT

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

TIME GMT	DATE D.M.Y.	TZ LOC	SAMP CODE	SAMPLE IDENT.	SEQ. DISP NUM. CODE	LAT.	LONG.	CRUISE LEG-SHIP
1546	26	472	SPRT B	AIR GUN-RS-ROLL 1	GDC 23	210S	70 469W	S SOTW04WT
1800	11	572	SPRT E	AIR GUN-RS-ROLL 1	GDC 13	589S	77 351W	S SOTW04WT

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

TIME GMT	DATE D.M.Y.	TZ LOC	SAMP CODE	SAMPLE IDENT.	SEQ. DISP NUM. CODE	LAT.	LONG.	CRUISE LEG-SHIP
33	28	472	MGR B	MAGNET-ROLL 1	GDC 22	417S	70 283W	S SOTW04WT
1145	30	472	MGR E	MAGNET-ROLL 1	GDC 21	312S	70 180W	S SOTW04WT

ANDREW SOUTAR, PALEOECOLOGY, (EXT. 1497)

\*\*\* DREDGE \*\*\*

TIME GMT	DATE D.M.Y.	TIME TZ	SAMP LOC	IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
830	1	572	D SP	PIPE DREDGE 4-1	ANS 21		239S	70 199W	S SOTW04WT
954	1	572	D SP	PIPE DREDGE 4-2	ANS 21		229S	70 146W	S SOTW04WT
1230	5	572	D SP	B PIPE DREDGE 4-3	ANS 19		339S	70 190W	S SOTW04WT
1358	5	572	D SP	E PIPE DREDGE 4-3	ANS 19		338S	70 182W	S SOTW04WT
1444	5	572	D SP	B PIPE DREDGE 4-4	ANS 19		381S	70 239W	S SOTW04WT
1600	5	572	D SP	E PIPE DREDGE 4-4	ANS 19		380S	70 230W	S SOTW04WT
1910	5	572	D SP	B PIPE DREDGE 4-5	ANS 19		351S	70 206W	S SOTW04WT
2010	5	572	D SP	E PIPE DREDGE 4-5	ANS 19		410S	70 269W	S SOTW04WT
2003	6	572	D SP	B PIPE DREDGE 4-6	ANS 18		303S	70 300W	S SOTW04WT
2108	6	572	D SP	E PIPE DREDGE 4-6	ANS 18		286S	70 289W	S SOTW04WT
2157	6	572	D SP	B PIPE DREDGE 4-7	ANS 18		290S	70 332W	S SOTW04WT
109	7	572	D SP	E PIPE DREDGE 4-7	ANS 18		258S	70 343W	S SOTW04WT
2039	9	572	D SP	B PIPE DREDGE 4-8	ANS 15		147S	75 227W	S SOTW04WT
2109	9	572	D SP	E PIPE DREDGE 4-8	ANS 15		144S	75 221W	S SOTW04WT
2110	9	572	D SP	B PIPE DREDGE 4-9	ANS 15		144S	75 221W	S SOTW04WT
2141	9	572	D SP	E PIPE DREDGE 4-9	ANS 15		142S	75 216W	S SOTW04WT
2228	9	572	D SP	B PIPE DREDGE 4-10	ANS 15		178S	75 261W	S SOTW04WT
2345	9	572	D SP	E PIPE DREDGE 4-10	ANS 15		173S	75 251W	S SOTW04WT
104	10	572	D SP	B PIPE DREDGE 4-11	ANS 15		175S	75 245W	S SOTW04WT
321	10	572	D SP	E PIPE DREDGE 4-11	ANS 15		162S	75 237W	S SOTW04WT
2250	13	572	D SP	B PIPE DREDGE 4-12	ANS 14		36S	76 211W	S SOTW04WT
2315	13	572	D SP	E PIPE DREDGE 4-12	ANS 14		25S	76 208W	S SOTW04WT
2335	14	572	D SP	B PIPE DREDGE 4-13	ANS 11		550S	77 410W	S SOTW04WT
40	15	572	D SP	E PIPE DREDGE 4-13	ANS 11		550S	77 410W	S SOTW04WT

HATHY THERMOGRAPHS - CURATOR MARGARET ROBINSON (FXT.1135)

\*\*\* BATHY THERMOGRAPH \*\*\*\*

TIME GMT	DATE	TIME TZ	SAMP LOC	LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
400	26	472	BTX		XBT 4-1	BTS 23	2375		70 447W	S	SOTW04WT
1809	26	472	BTX		XBT 4-2	BTS 23	55		70 352W	S	SOTW04WT
400	27	472	BTX		XBT 4-3	BTS 22	374S		70 286W	S	SOTW04WT
1814	27	472	BTX		XBT 4-4	BTS 22	465S		70 240W	S	SOTW04WT
2353	27	472	BTX		XBT 4-5	BTS 22	404S		70 258W	S	SOTW04WT
1618	28	472	BTX		XBT 4-6	BTS 23	457S		71 250W	S	SOTW04WT
2346	28	472	BTX		XBT 4-7	BTS 23	237S		72 207W	S	SOTW04WT
1218	29	472	BTX		XBT 4-8	BTS 23	243S		72 200W	S	SOTW04WT
2000	29	472	BTX		XBT 4-9	BTS 22	444S		72 182W	S	SOTW04WT
349	30	472	BTX		XBT 4-10	BTS 21	546S		71 338W	S	SOTW04WT
1146	30	472	BTX		XBT 4-11	BTS 21	312S		70 178W	S	SOTW04WT
2000	30	472	BTX		XBT 4-12	BTS 21	242S		70 101W	S	SOTW04WT
347	1	572	BTX		XBT 4-13	BTS 21	361S		70 398W	S	SOTW04WT
1650	1	572	BTX		XBT 4-14	BTS 21	352S		70 398W	S	SOTW04WT
402	2	572	BTX		XBT 4-15	BTS 21	263S		70 492W	S	SOTW04WT
1230	2	572	BTX		XBT 4-16	BTS 21	224S		71 179W	S	SOTW04WT
1916	2	572	BTX		XBT 4-17	BTS 20	194S		71 179W	S	SOTW04WT
403	3	572	BTX		XBT 4-18	BTS 20	225S		71 167W	S	SOTW04WT
1148	3	572	BTX		XBT 4-19	BTS 20	256S		71 162W	S	SOTW04WT
128	4	572	BTX		XBT 4-20	BTS 20	202S		71 174W	S	SOTW04WT
414	5	572	BTX		XBT 4-21	BTS 20	191S		71 143W	S	SOTW04WT
427	5	572	BTX		XBT 4-22	BTS 20	177S		71 127W	S	SOTW04WT
1600	5	572	BTX		XBT 4-23	BTS 19	380S		70 230W	S	SOTW04WT
301	6	572	BTX		XBT 4-24	BTS 20	118S		71 16W	S	SOTW04WT
1547	6	572	BTX		XBT 4-25	BTS 18	588S		70 550W	S	SOTW04WT
355	7	572	BTX		XBT 4-26	BTS 18	402S		70 398W	S	SOTW04WT
1339	7	572	BTX		XBT 4-27	BTS 18	474S		70 431W	S	SOTW04WT
353	8	572	BTX		XBT 4-28	BTS 18	95S		71 245W	S	SOTW04WT
2001	8	572	BTX		XBT 4-29	BTS 16	461S		74 272W	S	SOTW04WT
209	9	572	BTX		XBT 4-30	BTS 16	149S		75 314W	S	SOTW04WT
303	9	572	BTX		XBT 4-31	BTS 16	137S		75 334W	S	SOTW04WT
1725	9	572	BTX		XBT 4-32	BTS 15	398S		75 337W	S	SOTW04WT
1303	10	572	BTX		XBT 4-33	BTS 15	588S		75 582W	S	SOTW04WT
1729	10	572	BTX		XBT 4-34	BTS 15	587S		75 574W	S	SOTW04WT
1345	11	572	BTX		XBT 4-35	BTS 14	399S		77 32W	S	SOTW04WT
2102	11	572	BTX		XBT 4-36	BTS 13	506S		77 419W	S	SOTW04WT
1304	12	572	BTX		XBT 4-37	BTS 13	525S		77 428W	S	SOTW04WT
0142	13	0572	BTX		XBT 4-38	BTS 13	492S		077 424W	S	SOTW04WT
1301	13	572	BTX		XBT 4-39	BTS 13	509S		77 451W	S	SOTW04WT
328	14	572	BTX		XBT 4-40	BTS 14	19S		76 378W	S	SOTW04WT
1310	14	0572	BTX		XBT 4-41	BTS 12	310S		77 310W	S	SOTW04WT
2115	14	572	BTX		XBT 4-42	BTS 11	550S		77 410W	S	SOTW04WT

ANDREW SOUTAR, PALEONECLOGY, (EXT. 1497)

\*\*\* CORES \*\*\*

TIME GMT	DATE D.M.Y.	TIME TZ	SAMP LOC	SAMP LOC	IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
2205	27	472	C	BOX	CORE 4-1	ANS	22	375S	70 206W	S SOTW04WT
2322	30	472	C	BOX	CORE 4-2	ANS	21	236S	70 166W	S SOTW04WT
2028	14	572	C	BOX	CORE 4-3	ANS	11	550S	77 410W	S SOTW04WT

FREE VEHICLE CAMERA-CURATOR RICHARD SCHWARTZLOSE EXT. 1143

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

TIME GMT	DATE D.M.Y.	TIME TZ	SAMP LOC	SAMP LOC	IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1332	26	472	CAFS	B	FVC STILL 4-229	RAS	23	252S	70 368W	S SOTW04WT
1332	26	472	CAFS	E	FVC STILL 4-229	RAS	23	261S	70 368W	S SOTW04WT
5	29	472	CAFS	B	FVC STILL 4-230	RAS	23	235S	72 214W	S SOTW04WT
1458	29	472	CAFS	E	FVC STILL 4-230	RAS	23	242S	72 207W	S SOTW04WT
27	29	472	CAFS	B	FVC STILL 4-231	RAS	23	243S	72 216W	S SOTW04WT
1529	29	472	CAFS	E	FVC STILL 4-231	RAS	23	239S	72 200W	S SOTW04WT
47	29	472	CAFC	B	FVC MOVIE 4-232	RAS	23	246S	72 217W	S SOTW04WT
1405	29	472	CAFC	E	FVC MOVIE 4-232	RAS	23	241S	72 201W	S SOTW04WT
108	29	472	CAFC	B	FVC MOVIE 4-233	RAS	23	247S	72 219W	S SOTW04WT
1239	29	472	CAFC	E	FVC MOVIE 4-233	RAS	23	243S	72 201W	S SOTW04WT
122	1	572	CAFS	B	FVC STILL 4-234	RAS	21	305S	70 190W	S SOTW04WT
1226	1	572	CAFS	E	FVC STILL 4-234	RAS	21	318S	70 203W	S SOTW04WT
154	1	572	CAFC	B	FVC MOVIE 4-235	RAS	21	314S	70 219W	S SOTW04WT
1337	1	572	CAFC	E	FVC MOVIE 4-235	RAS	21	336S	70 230W	S SOTW04WT
350	1	572	CAFS	B	FVC STILL 4-236	RAS	21	361S	70 399W	S SOTW04WT
1627	1	572	CAFS	E	FVC STILL 4-236	RAS	21	354S	70 399W	S SOTW04WT
420	1	572	CAFC	B	FVC MOVIE 4-237	RAS	21	359S	70 402W	S SOTW04WT
1643	1	572	CAFC	E	FVC MOVIE 4-237	RAS	21	355S	70 399W	S SOTW04WT
1731	3	572	CAFS	B	FVC STILL 4-239	RAS	20	218S	71 184W	S SOTW04WT
1130	4	572	CAFS	E	FVC LOST 4-239	RAS	20	182S	71 147W	S SOTW04WT
1736	3	572	CAFS	B	FVC STILL 4-240	RAS	20	216S	71 183W	S SOTW04WT
1326	4	572	CAFS	E	FVC STILL 4-240	RAS	20	225S	71 185W	S SOTW04WT
1103	9	572	CAFS	B	FVC STILL 4-241	RAS	15	600S	75 564W	S SOTW04WT
1922	10	572	CAFS	E	FVC STILL 4-241	RAS	15	588S	75 584W	S SOTW04WT

TIME	DATE	TIME	TZ	SAMP	SEQ. DISP	CRUISE
GMT	D.M.Y.	LOC	LOC	CODE	NUM. CODE	LEG-SHIP
				SAMPLE IDENT.	LAT.	LONG.
1130	9	572		CAFC B FVC MOVIE 4-242	RAS 15 591S	75 577W S SOTW04WT
1340	10	572		CAFC E FVC MOVIE 4-242	RAS 15 590S	75 577W S SOTW04WT
1208	9	572		CAFC B FVC MOVIE 4-244	RAS 15 582S	75 590W S SOTW04WT
1315	10	572		CAFC E FVC MOVIE 4-244	RAS 15 588S	75 581W S SOTW04WT
2010	11	572		CAFS B FVC STILL 4-245	RAS 13 507S	77 418W S SOTW04WT
1503	13	572		CAFS E FVC STILL 4-245	RAS 13 509S	77 411W S SOTW04WT
2027	11	572		CAFC B FVC MOVIE 4-246	RAS 13 506S	77 419W S SOTW04WT
1330	13	572		CAFC E FVC MOVIE 4-246	RAS 13 521S	77 423W S SOTW04WT
2039	11	572		CAFC B FVC MOVIE 4-247	RAS 13 504S	77 419W S SOTW04WT
1437	13	572		CAFC E FVC MOVIE 4-247	RAS 13 511S	77 413W S SOTW04WT

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

TIME	DATE	TIME	TZ	SAMP	SEQ. DISP	CRUISE
GMT	D.M.Y.	LOC	LOC	CODE	NUM. CODE	LEG-SHIP
				SAMPLE IDENT.	LAT.	LONG.
2304	20	472		CMAB B CURRENT MTR3-227	RAS 23 482S	71 217W S SOTW04WT
1646	28	472		CMAB E CURRENT MTR3-227	RAS 23 457S	71 260W S SOTW04WT
145	21	472		CMAB B CURRENT MTR3-228	RAS 23 505S	70 576W S SOTW04WT
1439	28	472		CMAB E CURRENT MTR3-228	RAS 23 455S	71 216W S SOTW04WT
46	3	572		CMAB B CURRENT MTR4-238	RAS 20 240S	71 163W S SOTW04WT
1301	4	572		CMAB E CURRENT MTR4-238	RAS 20 215S	71 188W S SOTW04WT
1152	9	572		CMAB B CURRENT MTR4-243	RAS 15 584S	75 588W S SOTW04WT
1743	10	572		CMAB E CURRENT MTR4-243	RAS 15 582S	75 579W S SOTW04WT
2049	11	572		CMAB B CURRENT MTR4-248	RAS 13 504S	77 419W S SOTW04WT
1524	13	572		CMAB E CURRENT MTR4-248	RAS 13 507S	77 410W S SOTW04WT

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

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

TIME GMT	DATE D.M.Y.	TIME TZ	SAMP LOC	SAMP LOC CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
430	27	472		HCNA	HYDROCAST H-12S		DCP 22	378S	70 282W	S SOTW04WT
1907	1	572		HCNA	HYDROCAST H-13S		DCP 21	228S	70 198W	S SOTW04WT
2140	3	572		HCNA	HYDROCAST H-14DP		DCP 20	214S	71 184W	S SOTW04WT
235	4	572		HCNA	HYDROCAST H-15SH		DCP 20	196S	71 175W	S SOTW04WT
1850	5	572		HCNA	HYDROCAST H-16SH		DCP 19	348S	70 207W	S SOTW04WT
1412	7	572		HCNA	HYDROCAST H-17		DCP 18	480S	70 431W	S SOTW04WT
1930	9	572		HCNA	HYDROCAST H-18S		DCP 15	249S	75 160W	S SOTW04WT
2217	11	572		HCNA	HYDROCAST H-19		DCP 13	510S	77 418W	S SOTW04WT
100	12	572		HCNA	HYDROCAST H-20		DCP 13	509S	77 415W	S SOTW04WT
126	14	572		HCNA	HYDROCAST H-21		DCP 14	18S	76 323W	S SOTW04WT
319	14	572		HCNA	HYDROCAST H-22		DCP 14	18S	76 378W	S SOTW04WT
2123	14	572		HCNA	HYDROCAST H-23		DCP 11	550S	77 410W	S SOTW04WT

L.C.LEWIN (EXT.1072)

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

TIME GMT	DATE D.M.Y.	TIME TZ	SAMP LOC	SAMP LOC CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
2325	4	572		ONIM B	HALOBATES 4-1		LCL 20	218S	71 171W	S SOTW04WT
228	5	572		ONIM E	HALOBATES 4-1		LCL 20	252S	71 181W	S SOTW04WT
140	9	572		ONIM B	HALOBATES 4-2		LCL 16	156S	75 301W	S SOTW04WT
158	9	572		ONIM E	HALOBATES 4-2		LCL 16	152S	75 310W	S SOTW04WT
120	12	572		ONIM B	HALOBATES 4-3		LCL 13	508S	77 413W	S SOTW04WT
300	12	572		ONIM E	HALOBATES 4-3		LCL 13	517S	77 404W	S SOTW04WT
58	13	572		ONIM B	HALOBATES 4-4		LCL 13	485S	77 428W	S SOTW04WT
234	13	572		ONIM E	HALOBATES 4-4		LCL 13	510S	77 415W	S SOTW04WT

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

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

TIME GMT	DATE D.M.Y.	TIME TZ	SAMP LOC CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
150	26	472	SLVF B	FV SETLINE 4-1	MVC 23	251S	70 369W	S	SOTW04WT
1512	26	472	SLVF E	FV SETLINE 4-1	MVC 23	229S	70 478W	S	SOTW04WT
120	29	472	SLVF B	FV SETLINE 4-2	MVC 23	248S	72 220W	S	SOTW04WT
1433	29	472	SLVF E	FV SETLINE 4-2	MVC 23	245S	72 206W	S	SOTW04WT
110	30	472	SLVF B	FV SETLINE 4-3	MVC 22	42S	71 590W	S	SOTW04WT
1707	1	572	SLVF E	FV SETLINE 4-3	MVC 21	348S	70 393W	S	SOTW04WT
446	1	572	SLVF B	FV SETLINE 4-4	MVC 21	356S	70 403W	S	SOTW04WT
1527	1	572	SLVF E	FV SETLINE 4-4	MVC 21	331S	70 414W	S	SOTW04WT
2340	2	572	SLVF B	FV SETLINE 4-5	MVC 20	210S	71 184W	S	SOTW04WT
1640	3	572	SLVF E	FV SETLINE 4-5	MVC 20	171S	71 208W	S	SOTW04WT
1426	9	572	SLVF B	FV SETLINE 4-6	MVC 15	582S	75 584W	S	SOTW04WT
1720	10	572	SLVF E	FV SETLINE 4-6	MVC 15	590S	75 575W	S	SOTW04WT
1933	11	572	SLVF B	FV SETLINE 4-7	MVC 13	515S	77 416W	S	SOTW04WT
2200	12	572	SLVF E	FV SETLINE 4-7	MVC 13	509S	77 426W	S	SOTW04WT

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

TIME GMT	DATE D.M.Y.	TIME TZ	SAMP LOC CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
2205	26	472	TBOS B	OTTER TRAWL 4-1	MVC 23	29S	70 240W	S	SOTW04WT
2334	26	472	TBOS E	OTTER TRAWL 4-1	MVC 23	25S	70 275W	S	SOTW04WT
1545	30	472	TBOS B	OTTER TRAWL 4-2	MVC 21	271S	70 132W	S	SOTW04WT
1640	30	472	TBOS E	OTTER TRAWL 4-2	MVC 21	274S	70 106W	S	SOTW04WT
1735	30	472	TBOS B	OTTER TRAWL 4-3	MVC 21	265S	70 54W	S	SOTW04WT
1825	30	472	TBOS E	OTTER TRAWL 4-3	MVC 21	268S	70 72W	S	SOTW04WT
1541	7	572	TBOS B	OTTER TRAWL 4-4	MVC 18	464S	70 410W	S	SOTW04WT
1641	7	572	TBOS E	OTTER TRAWL 4-4	MVC 18	442S	70 382W	S	SOTW04WT
1957	7	572	TBOS B	OTTER TRAWL 4-5	MVC 18	399S	70 343W	S	SOTW04WT
2220	7	572	TBOS E	OTTER TRAWL 4-5	MVC 18	359S	70 304W	S	SOTW04WT
1945	10	572	TBOS B	OTTER TRAWL 4-6	MVC 15	393S	76 127W	S	SOTW04WT
541	11	572	TBOS E	OTTER TRAWL 4-6	MVC 15	429S	76 42W	S	SOTW04WT
130	3	572	TBOS B	SIGSBEE TRAWL 4-1	MVC 20	252S	71 166W	S	SOTW04WT
1443	3	572	TBOS E	SIGSBEE TRAWL 4-1	MVC 20	204S	71 142W	S	SOTW04WT



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

TIME GMT	DATE D.M.Y.	TIME TZ	SAMP LOC	LOC CODE	SAMP IDENT.	SEQ. NUM.	DISP CODE	LAY.	LONG.	CRUISE LEG-SHIP
305	29	472			TMIK B IKMT 4-1		MVC 23	245S	72 210W	S SUTW04WT
1152	29	472			TMIK E IKMT 4-1		MVC 23	250S	72 192W	S SUTW04WT
233	2	572			TMIK B IKMT 4-2		MVC 21	267S	70 436W	S SOTW04WT
1156	2	572			TMIK E IKMT 4-2		MVC 21	243S	71 173W	S SUTW04WT
423	4	572			TMIK B IKMT 4-3		MVC 20	189S	71 164W	S SOTW04WT
1215	4	572			TMIK E IKMT 4-3		MVC 20	180S	71 168W	S SOTW04WT
310	7	572			TMIK B IKMT 4-4		MVC 18	385S	70 382W	S SOTW04WT
1157	7	572			TMIK E IKMT 4-4		MVC 18	378S	70 343W	S SOTW04WT
210	9	572			TMIK B IKMT 4-5		MVC 16	149S	75 315W	S SOTW04WT
1155	9	572			TMIK E IKMT 4-5		MVC 15	583S	75 589W	S SOTW04WT
330	12	572			TMIK B IKMT 4-6		MVC 13	520S	77 402W	S SOTW04WT
1314	12	572			TMIK E IKMT 4-6		MVC 13	523S	77 431W	S SOTW04WT
1321	12	572			TMIK B IKMT 4-7		MVC 13	522S	77 433W	S SOTW04WT
1904	12	572			TMIK E IKMT 4-7		MVC 13	409S	77 548W	S SOTW04WT
305	13	572			TMIK B IKMT 4-8		MVC 13	514S	77 413W	S SOTW04WT
1249	13	572			TMIK E IKMT 4-8		MVC 13	511S	77 455W	S SOTW04WT

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

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

TIME GMT	DATE D.M.Y.	TIME TZ LOC LOC	SAMP CODE	SAMPLE IDENT.	SEQ. DISP NUM. CODE	LAT.	LONG.	CRUISE LEG-SHIP
0	26	472	ASNU	AEROSOL	AWH 23	332S	70 391W	S S SOTW04WT
1200	26	472	ASNU	AEROSOL	AWH 23	240S	70 396W	S S SOTW04WT
1800	26	472	ASNU	AEROSOL	AWH 23	16S	70 361W	S S SOTW04WT
600	27	472	ASNU	AEROSOL	AWH 22	450S	70 274W	S S SOTW04WT
1200	27	472	ASNU	AEROSOL	AWH 22	23S	70 263W	S S SOTW04WT
1800	27	472	ASNU	AEROSOL	AWH 22	487S	70 247W	S S SOTW04WT
0	28	472	ASNU	AEROSOL	AWH 22	406S	70 262W	S S SOTW04WT
600	28	472	ASNU	AEROSOL	AWH 23	275S	70 534W	S S SOTW04WT
1200	28	472	ASNU	AEROSOL	AWH 23	451S	71 160W	S S SOTW04WT
1800	28	472	ASNU	AEROSOL	AWH 23	442S	71 320W	S S SOTW04WT
0	29	472	ASNU	AEROSOL	AWH 23	235S	72 212W	S S SOTW04WT
600	29	472	ASNU	AEROSOL	AWH 23	332S	72 189W	S S SOTW04WT
1200	29	472	ASNU	AEROSOL	AWH 23	249S	72 191W	S S SOTW04WT
1800	29	472	ASNU	AEROSOL	AWH 23	42S	72 192W	S S SOTW04WT
0	30	472	ASNU	AEROSOL	AWH 22	79S	72 101W	S S SOTW04WT
600	30	472	ASNU	AEROSOL	AWH 21	474S	71 143W	S S SOTW04WT
1200	30	472	ASNU	AEROSOL	AWH 21	306S	70 155W	S S SOTW04WT
1800	30	472	ASNU	AEROSOL	AWH 21	266S	70 59W	S S SOTW04WT
0	1	572	ASNU	AEROSOL	AWH 21	258S	70 167W	S S SOTW04WT
600	1	572	ASNU	AEROSOL	AWH 21	290S	70 321W	S S SOTW04WT
1800	1	572	ASNU	AEROSOL	AWH 21	300S	70 317W	S S SOTW04WT
0	2	572	ASNU	AEROSOL	AWH 21	271S	70 304W	S S SOTW04WT
600	2	572	ASNU	AEROSOL	AWH 21	259S	70 562W	S S SOTW04WT
1200	2	572	ASNU	AEROSOL	AWH 21	243S	71 174W	S S SOTW04WT
1800	2	572	ASNU	AEROSOL	AWH 20	211S	71 178W	S S SOTW04WT
0	3	572	ASNU	AEROSOL	AWH 20	218S	71 185W	S S SOTW04WT
600	3	572	ASNU	AEROSOL	AWH 20	258S	71 191W	S S SOTW04WT
1200	3	572	ASNU	AEROSOL	AWH 20	182S	71 161W	S S SOTW04WT
1800	3	572	ASNU	AEROSOL	AWH 20	208S	71 168W	S S SOTW04WT
0	4	572	ASNU	AEROSOL	AWH 20	181S	71 176W	S S SOTW04WT
600	4	572	ASNU	AEROSOL	AWH 20	74S	71 163W	S S SOTW04WT
1200	4	572	ASNU	AEROSOL	AWH 19	327S	70 13W	S S SOTW04WT
1800	4	572	ASNU	AEROSOL	AWH 19	340S	70 209W	S S SOTW04WT
0	5	572	ASNU	AEROSOL	AWH 19	496S	70 336W	S S SOTW04WT
600	5	572	ASNU	AEROSOL	AWH 20	142S	71 206W	S S SOTW04WT
1200	5	572	ASNU	AEROSOL	AWH 19	230S	71 235W	S S SOTW04WT
1800	5	572	ASNU	AEROSOL	AWH 18	431S	70 398W	S S SOTW04WT
0	6	572	ASNU	AEROSOL	AWH 18	266S	70 348W	S S SOTW04WT
600	6	572	ASNU	AEROSOL	AWH 18	378S	70 342W	S S SOTW04WT
1200	6	572	ASNU	AEROSOL	AWH 17	596S	71 483W	S S SOTW04WT
1800	6	572	ASNU	AEROSOL	AWH 17	276S	72 568W	S S SOTW04WT
0	7	572	ASNU	AEROSOL	AWH 16	564S	74 39W	S S SOTW04WT
600	7	572	ASNU	AEROSOL	AWH 16	246S	75 122W	S S SOTW04WT
1200	7	572	ASNU	AEROSOL	AWH 16	89S	75 416W	S S SOTW04WT
1800	7	572	ASNU	AEROSOL	AWH 15	582S	75 590W	S S SOTW04WT
0	8	572	ASNU	AEROSOL	AWH 15	355S	75 278W	S S SOTW04WT
600	8	572	ASNU	AEROSOL				
1200	8	572	ASNU	AEROSOL				
1800	8	572	ASNU	AEROSOL				
0	9	572	ASNU	AEROSOL				
600	9	572	ASNU	AEROSOL				
1200	9	572	ASNU	AEROSOL				
1800	9	572	ASNU	AEROSOL				

TIME GMT	DATE O.M.Y.	TIME TZ	SAMP LOC	LOC CODE	SAMP IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
0	10	572		ASNU	AEROSUL	AWH	15	173S	75 249W	S SOTW04WT
600	10	572		ASNU	AEROSUL	AWH	15	217S	75 220W	S SOTW04WT
1800	10	572		ASNU	AEROSUL	AWH	15	565S	75 590W	S SOTW04WT
0	11	572		ASNU	AEROSUL	AWH	15	474S	76 74W	S SOTW04WT
1200	11	572		ASNU	AEROSUL	AWH	14	565S	76 502W	S SOTW04WT
1800	11	572		ASNU	AEROSUL	AWH	13	589S	77 351W	S SOTW04WT
0	12	572		ASNU	AEROSUL	AWH	13	509S	77 415W	S SOTW04WT
600	12	572		ASNU	AEROSUL	AWH	13	567S	77 362W	S SOTW04WT
1800	12	572		ASNU	AEROSUL	AWH	13	420S	77 538W	S SOTW04WT
0	13	572		ASNU	AEROSUL	AWH	13	515S	77 435W	S SOTW04WT
1200	13	572		ASNU	AEROSUL	AWH	13	526S	77 445W	S SOTW04WT
0	14	572		ASNU	AEROSUL	AWH	14	19S	76 224W	S SOTW04WT
600	14	572		ASNU	AEROSUL	AWH	13	440S	76 481W	S SOTW04WT
1200	14	572		ASNU	AEROSUL	AWH	12	439S	77 244W	S SOTW04WT

END SAMPLE INDEX