

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

LEG 7

R/V WASHINGTON

Balboa, Canal Zone (18 July, 1972)

To

Callao, Peru (7 August, 1972)

Chief Scientist, Leg 7 - J. Sclater

Cruise Coordinator - J. Mudie

Airgun Tech. - B. Byrne

Computer Tech. - W. Hilton

Resident Marine Tech. - F. Dixon

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

Geological Data Center

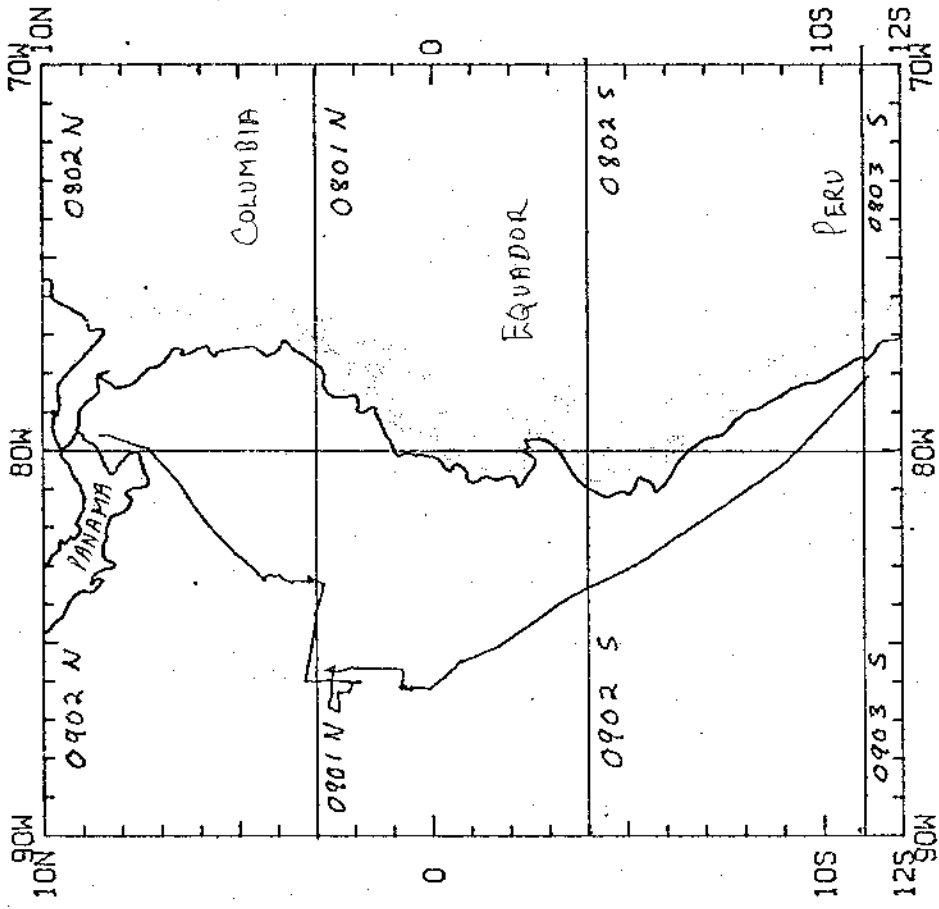
T. E. Chase - Curator

S. M. Smith - Data Processing Coordinator

Scripps Institution of Oceanography

La Jolla, California

August 22, 1972



SOUTH-TOW LEG 7 BALBOA, CANAL ZONE (18 JULY 1972) TO CALLAO, PERU (7 AUGUST 1972)

SHIP: R/V WASHINGTON CHIEF SCIENTIST: JOHN SCLATER

5 August 1972

R/V THOMAS WASHINGTON --SOUTH TOW EXPEDITION LEG VII, FINAL REPORT

One hundred and forty successful gradient measurements, twelve cores, four dredges, and two bottom-water temperature tows were completed on Leg VII.

The cores range from 5 to 10 m in length. All the cores are recent calcareous silicious ooze with diatoms. The dredges yielded fresh basalt on the Costa Rica rift and Galapagos spreading center. Altered gabbro was encountered on the fracture zone at 84°W, and a coarse foraminiferal sand on the Carnegie Ridge. A detailed heat-flow survey, at 2°N, 86°W, confirmed existence of low heat flow north of the spreading center.

The second survey showed mean values low at the axis, grading to very high 20 km to the south. Values range from 0 to 30 heat-flow units. There was considerable scatter within the gradation of wavelength 2 to 4 km. On one station, eleven successful thermal gradients were obtained with the Woods Hole Oceanographic Institution's probe. Bottom-water tows at the ridge axis showed discrete temperature variations of 0.02° not associated with topography.

The second survey would have been impossible without the deep-tow bathymetry. Transponder navigation of instruments on 17 stations and ship on 31 stations was most useful.

John G. Sclater and Richard P. Von Herzen

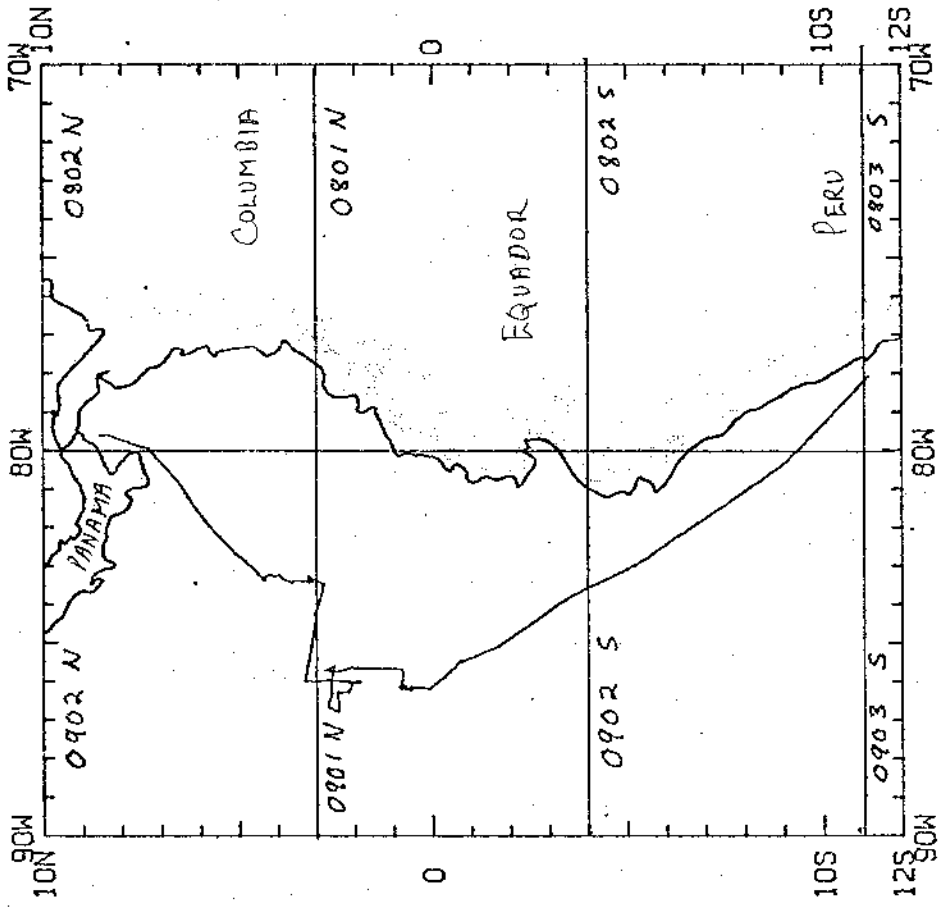
Preliminary Report and Index of Navigation, Depth, Magnetic and Subbottom Profiler Data

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):

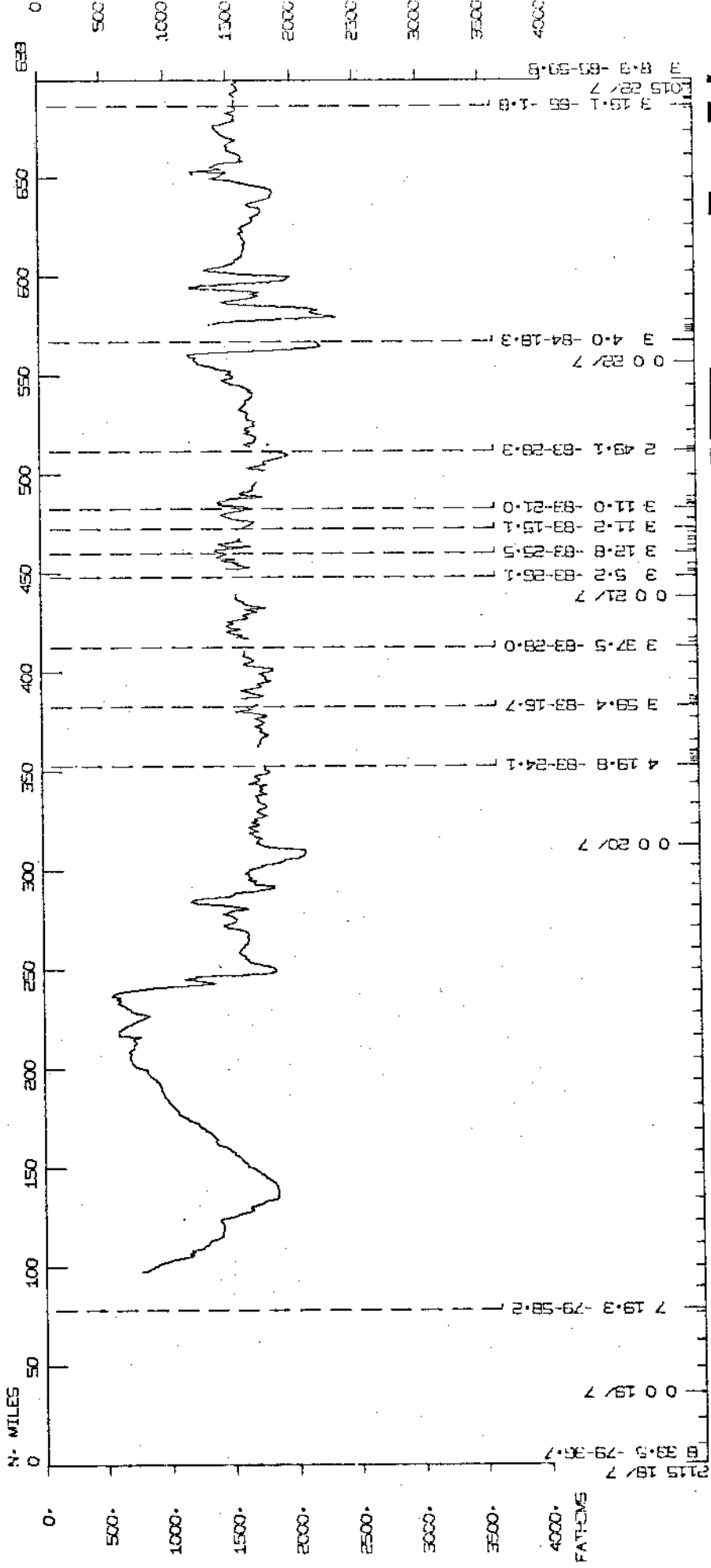
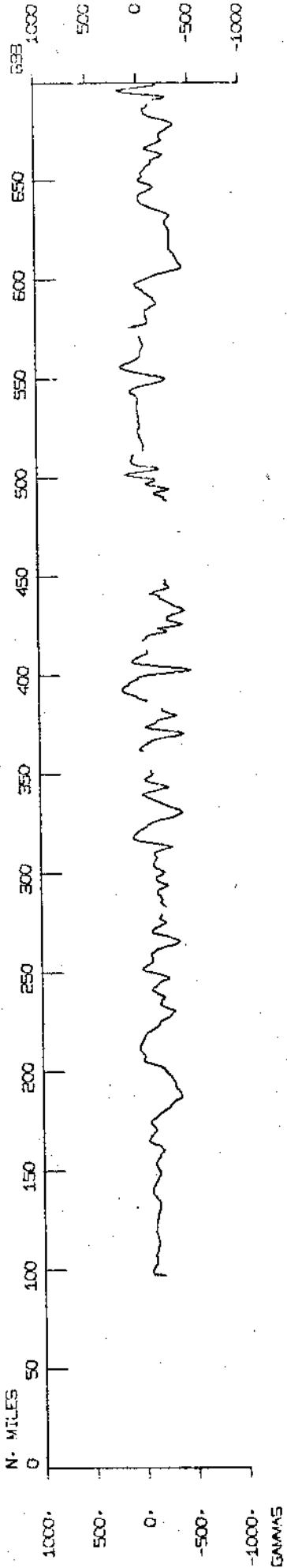
1. Navigation listing of times and positions of course and speed changes, fixes and drift velocity.
2. Depth compilation plots - in fathoms (assumed sound velocity of 800 fm./sec.) at approximately 1 mile spacing, plotted at 4"/degree with standard U.S. Navy Oceanographic Office EC series boundaries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

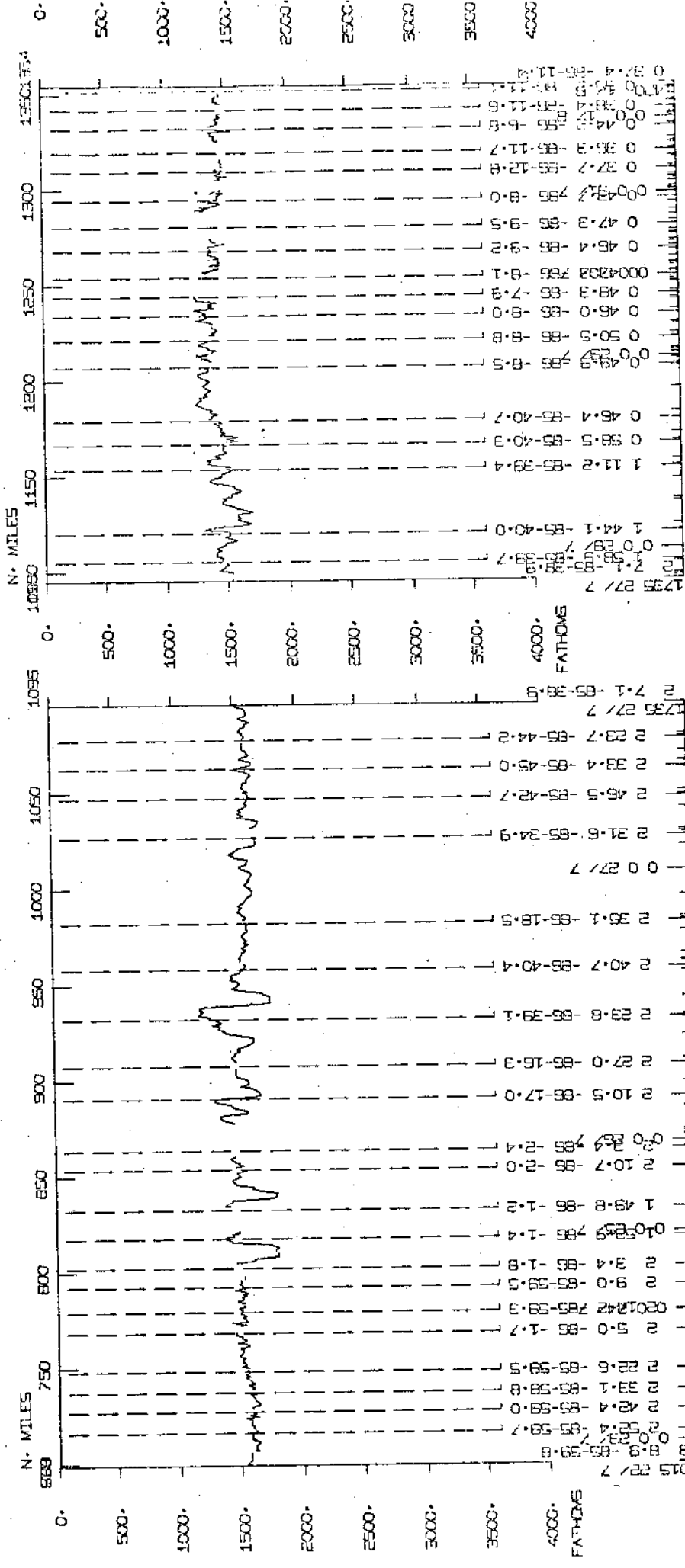
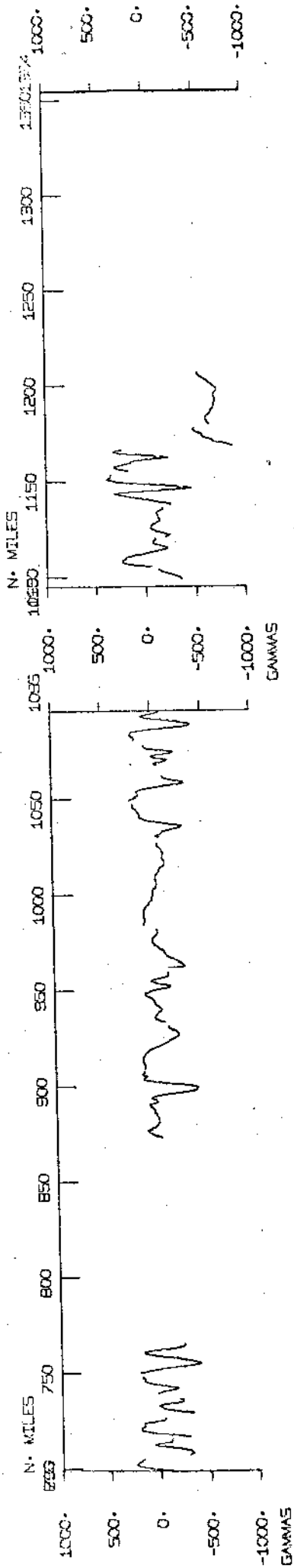


SOUTH-TOW LEG 7 BALBOA, CANAL ZONE (18 JULY 1972) TO CALLAO, PERU (7 AUGUST 1972)

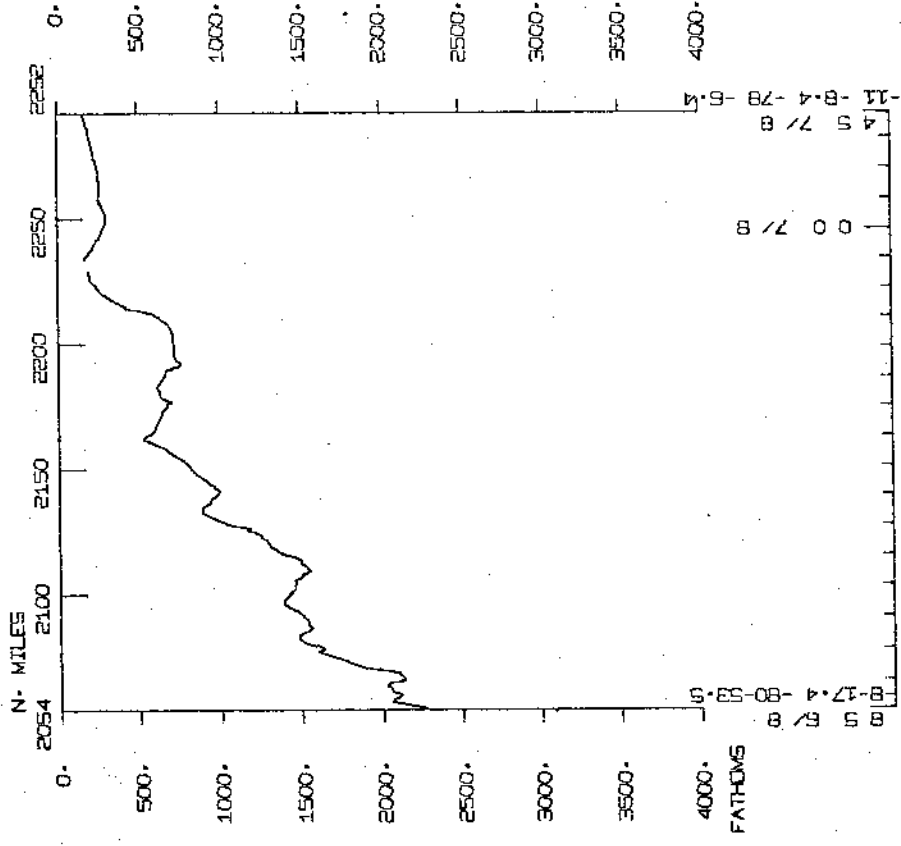
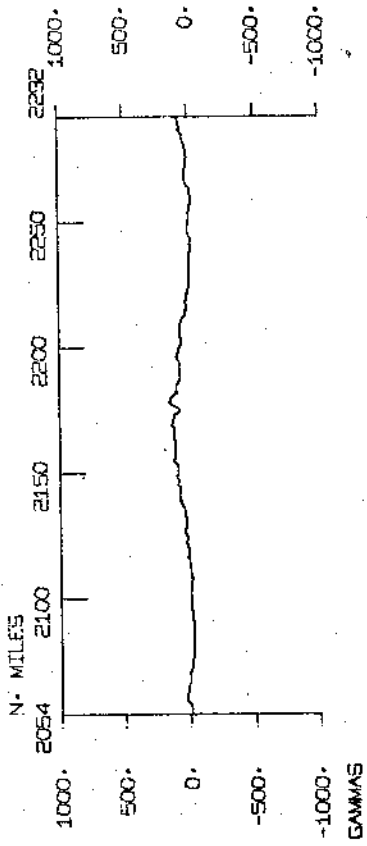
SHIP: R/V WASHINGTON CHIEF SCIENTIST: JOHN SCLATER

SOUTH TOW LEG 7





N. MILES	FATHOMS
750	1500
760	1400
770	1500
780	1400
790	1500
800	1400
810	1500
820	1400
830	1500
840	1400
850	1500
860	1400
870	1500
880	1400
890	1500
900	1400
910	1500
920	1400
930	1500
940	1400
950	1500
960	1400
970	1500
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990	1500
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1010	1500
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1030	1500
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1050	1500
1060	1400
1070	1500
1080	1400
1090	1500
1100	1400
1110	1500
1120	1400
1130	1500
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1150	1500
1160	1400
1170	1500
1180	1400
1190	1500
1200	1400
1210	1500
1220	1400
1230	1500
1240	1400
1250	1500
1260	1400
1270	1500
1280	1400
1290	1500
1300	1400



SOUTHWEST LEG 7



8 8 92 8
 8-17-4-80-88-5
 4 5 7 8
 0 0 7 8
 11-8-4-78-8-5

***FATHOGRAMS ***

TIME GMT	DATE D.M.Y.	TIME YZ	LOC LOC	LOC LOC	SAMP CODE	SAMPLE IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1005	20	772	DPIL	B	PDRPK5	HF ROLL 1	1	GDC	4 208N	83 177W	S SOTW07WT
820	1	872	DPIL	E	PDRPK5	HF ROLL 1	1	GDC	0 405N	86 101W	S SOTW07WT
820	1	872	DPIL	B	PDRPK5	HF ROLL 2	2	GDC	0 405N	86 101W	S SOTW07WT
2130	3	872	DPIL	F	PDRPK5	HF ROLL 2	2	GDC	0 112S	85 593W	S SOTW07WT
500	19	772	DPRT	B	GDR	12KHZ-ROLL 1	1	GDC	7 54N	80 150W	S SOTW07WT
1810	21	772	DPRT	F	GDR	12KHZ-ROLL 1	1	GDC	2 493N	83 263W	S SOTW07WT
2015	21	772	DPRT	B	GDR	12KHZ-ROLL 2	2	GDC	2 477N	83 277W	S SOTW07WT
1600	23	772	DPRT	F	GDR	12KHZ-ROLL 2	2	GDC	2 53N	86 15W	S SOTW07WT
2005	23	772	DPRT	B	GDR	12KHZ-ROLL 3	3	GDC	2 77N	85 597W	S SOTW07WT
1727	25	772	DPRT	F	GDR	12KHZ-ROLL 3	3	GDC	1 517N	86 10W	S SOTW07WT
1233	25	772	DPRT	B	GDR	12KHZ-ROLL 4	4	GDC	1 517N	86 10W	S SOTW07WT
1225	27	772	DPRT	F	GDR	12KHZ-ROLL 4	4	GDC	2 256N	85 441W	S SOTW07WT
915	29	772	DPRT	B	GDR	12KHZ-ROLL 5	5	GDC	0 500N	86 83W	S SOTW07WT
1230	29	772	DPRT	F	GDR	12KHZ-ROLL 5	5	GDC	0 465N	86 79W	S SOTW07WT
934	29	772	DPRT	B	GDR	12KHZ-ROLL 6	6	GDC	0 526N	86 81W	S SOTW07WT
2215	30	772	DPRT	F	GDR	12KHZ-ROLL 6	6	GDC	0 486N	86 90W	S SOTW07WT
2230	30	772	DPRT	B	GDR	12KHZ-ROLL 7	7	GDC	0 480N	86 88W	S SOTW07WT
845	1	872	DPRT	F	GDR	12KHZ-ROLL 7	7	GDC	0 406N	86 99W	S SOTW07WT
850	1	872	DPRT	B	GDR	12KHZ-ROLL 8	8	GDC	0 406N	86 99W	S SOTW07WT
1100	2	872	DPRT	F	GDR	12KHZ-ROLL 8	8	GDC	0 332N	86 88W	S SOTW07WT
1106	2	872	DPRT	B	GDR	12KHZ-ROLL 9	9	GDC	0 332N	86 89W	S SOTW07WT
725	5	872	DPRT	F	GDR	12KHZ-ROLL 9	9	GDC	4 292S	83 213W	S SOTW07WT
744	5	872	DPRT	B	GDR	12KHZ-ROLL 10	10	GDC	4 323S	83 197W	S SOTW07WT
430	6	872	DPRT	F	GDR	12KHZ-ROLL 10	10	GDC	7 428S	81 175W	S SOTW07WT
530	19	772	DPK3	B	GDR3	5KHZ-ROLL 1	1	GDC	7 19N	80 193W	S SOTW07WT
1810	21	772	DPK3	F	GDR3	5KHZ-ROLL 1	1	GDC	2 493N	83 283W	S SOTW07WT
2015	21	772	DPK3	B	GDR3	5KHZ-ROLL 2	2	GDC	2 477N	83 277W	S SOTW07WT
1605	24	772	DPK3	F	GDR3	5KHZ-ROLL 2	2	GDC	2 26N	86 19W	S SOTW07WT
1410	24	772	DPK3	B	GDR3	5KHZ-ROLL 3	3	GDC	2 22N	86 19W	S SOTW07WT
1718	27	772	DPK3	F	GDR3	5KHZ-ROLL 3	3	GDC	2 100N	85 404W	S SOTW07WT
1725	27	772	DPK3	B	GDR3	5KHZ-ROLL 4	4	GDC	2 88N	85 398W	S SOTW07WT
1745	30	772	DPK3	F	GDR3	5KHZ-ROLL 4	4	GDC	0 448N	86 91W	S SOTW07WT
1745	30	772	DPK3	B	GDR3	5KHZ-ROLL 5	5	GDC	0 448N	86 91W	S SOTW07WT
1900	2	872	DPK3	F	GDR3	5KHZ-ROLL 5	5	GDC	0 342N	86 131W	S SOTW07WT

1900 2115 2115 5 872 430 6 872
 DPK3 E GDR3.5KHZ-ROLL 6
 DPK3 H GDR3.5KHZ-ROLL 7
 DPK3 F GDR3.5KHZ-ROLL 7
 GDC 6 335 82 50W S SOTW07WT
 GDC 6 335 82 50W S SOTW07WT
 GDC 7 428 81 175W S SOTW07WT

*** SEISMIC REFLECTION PROFILES ***

TIME GMT	DATE D.M.Y.	TIME TZ	LOC	SAMP	LOC	SEQ. DISP	SAMPLE IDENT.	NUM. CODE	LAT.	LONG.	CRUISE
500	19	772		SPRT B	AIRGUN-RS-ROLL 1	GDC 7	58N	80	150W	S	SOTW07WT
2345	21	772		SPRT F	AIRGUN-RS-ROLL 1	GDC 2	593N	84	58W	S	SOTW07WT
2345	21	772		SPRT B	AIRGUN-RS-ROLL 2	GDC 2	593N	84	58W	S	SOTW07WT
10	22	772		SPRT F	AIRGUN-RS-ROLL 2	GDC 3	6N	84	102W	S	SOTW07WT
10	22	772		SPRT B	AIRGUN-RS-ROLL 3	GDC 3	9N	84	102W	S	SOTW07WT
430	6	872		SPRT F	AIRGUN-RS-ROLL 3	GDC 7	428S	81	175W	S	SOTW07WT

*** MAGNETOMETER ***

TIME GMT	DATE D.M.Y.	TIME TZ	LOC	SAMP	LOC	SEQ. DISP	SAMPLE IDENT.	NUM. CODE	LAT.	LONG.	CRUISE
500	19	772		MGR B	MAGNET-ROLL 1	GDC 7	58N	80	150W	S	SOTW07WT
430	6	872		MGR E	MAGNET-ROLL 1	GDC 7	428S	81	175W	S	SOTW07WT

----- GEOLOGICAL SAMPLES - CURATOR W.R. RIEDEL (EXT.1579) -----

*** CURFS ***

TIME GMT	DATE D.M.Y.	TIME TZ	LOC	SAMP	LOC	SEQ. DISP	SAMPLE IDENT.	NUM. CODE	LAT.	LONG.	CRUISE
624	20	772		C G	SOTW 6P	GCR 4	204N	83	213W	S	SOTW07WT
624	20	772		C P	SOTW 6PG	GCR 4	204N	83	213W	S	SOTW07WT
2215	22	772		CPV	SOTW 10PV	GCR 3	24N	86	5W	S	SOTW07WT
1149	23	772		CPV	SOTW 11PV	GCR 2	232N	85	597W	S	SOTW07WT
1241	24	772		CPV	SOTW 12PV	GCR 2	35N	86	18W	S	SOTW07WT
1800	25	772		CPV	SOTW 13PV	GCR 2	105N	86	20W	S	SOTW07WT
1200	26	772		CPV	SOTW 14PV	GCR 2	237N	86	392W	S	SOTW07WT
241	27	772		CPV	SOTW 15PV	GCR 2	509N	85	359W	S	SOTW07WT
1854	27	772		CPV	SOTW 16PV	GCR 2	50N	85	382W	S	SOTW07WT
1254	1	872		CPV	SOTW 18PV	GCR 0	353N	86	110W	S	SOTW07WT
1924	2	872		CPV	SOTW 19PV	GCR 0	342N	86	133W	S	SOTW07WT
1150	3	872		CPV	NO SAMP RECOVD	GCR 0	48N	86	116W	S	
2025	3	872		CPV	SOTW 21 PV	GCR 0	109S	85	584W	S	SOTW07WT

*** HUGP ***

TIME GMT	DATE D.M.Y.	TIME TZ LOC	SAMP CCIDE	SAMP IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
750 21	772		D R B DREDGE	SOTW 07	6CR	3	121N	83 200W	S SOTW07WT
845 21	772		D R E DREDGE	SOTW 07	6CR	3	120N	83 183W	S SOTW07WT
1330 21	772		D R B DREDGE	SOTW 08	6CR	3	122N	83 203W	S SOTW07WT
1402 21	772		D R E DREDGE	SOTW 08	6CK	3	125N	83 205W	S SUTW07WT
223 22	772		D R B DREDGE	SOTW 09	6CR	3	16N	84 139W	S SOTW07WT
425 22	772		D R E DREDGE	SOTW 09	6CR	3	1N	84 127W	S SOTW07WT
1430 29	772		D R B SOTW	17D 2473	6CR	0	490N	86 80W	S SOTW07WT
1635 29	772		D R E SOTW	17D 2313	6CR	0	483N	86 79W	S SOTW07WT
532 4	872		D R B SOTW	22D	6CR	0	441S	85 298W	S SOTW07WT
658 4	872		D R E SOTW	22D	6CR	0	437S	85 303W	S SOTW07WT

HEAT FLOW STATIONS - CURATOR JOHN SCLATER (EXT.1086)

*** HEAT FLOW ***

TIME GMT	DATE D.M.Y.	TIME TZ LOC	SAMP CODE	SAMP IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1817 22	772		HF	HEAT FLOW 7-06A	MPL	3	182N	85 592W	S SOTW07WT
909 24	772		HF	HEAT FLOW 7-15-1	WHO	2	85N	86 10W	S SOTW07WT
948 24	772		HF	HEAT FLOW 7-15-2	WHO	2	86N	86 10W	S SOTW07WT
1241 24	772		HF	HEAT FLOW 7-16	WHO	2	35N	86 18W	S SOTW07WT
1510 24	772		HF	HEAT FLOW 7-17-1	MPL	2	23N	86 19W	S SOTW07WT
1520 24	772		HF	HEAT FLOW 7-17-2	MPL	2	24N	86 19W	S SOTW07WT
1812 24	772		HF	HEAT FLOW 7-18-1	MPL	1	586N	86 14W	S SOTW07WT
1820 24	772		HF	HEAT FLOW 7-18-2	MPL	1	585N	86 14W	S SOTW07WT
1907 24	772		HF	HEAT FLOW 7-18-3	MPL	1	589N	86 13W	S SOTW07WT
2210 24	772		HF	HEAT FLOW 7-19-1	MPL	1	532N	86 10W	S SOTW07WT
2255 24	772		HF	HEAT FLOW 7-19-2	MPL	1	537N	86 8W	S SOTW07WT
1647 26	772		HF	HEAT FLOW 7-26-3	WHO	2	413N	86 37W	S SOTW07WT
2017 26	772		HF	HEAT FLOW 7-27-1	HFP	2	354N	86 183W	S SOTW07WT
135 30	772		HF	HEAT FLOW 7-44	MPL	0	473N	86 80W	S SOTW07WT
1200 26	772		HF	HF WHOI 7-25	WHO	2	237N	86 392W	S SOTW07WT
1612 26	772		HF	HF WHOI 7-26-1	WHO	2	409N	86 381W	S SOTW07WT
1632 26	772		HF	HF WHOI 7-26-2	WHO	2	411N	86 380W	S SOTW07WT
1325 27	772		HF	HF WHOI 7-31-1	WHO	2	238N	85 440W	S SOTW07WT
1350 27	772		HF	HF WHOI 7-31-2	WHO	2	238N	85 439W	S SOTW07WT
1414 27	772		HF	HF WHOI 7-31-3	WHO	2	239N	85 438W	S SOTW07WT
1439 27	772		HF	HF WHOI 7-31-4	WHO	2	239N	85 437W	S SOTW07WT
1502 27	772		HF	HF WHOI 7-31-5	WHO	2	238N	85 436W	S SOTW07WT
520 30	772		HF	HF 45 PEN NO.1	MPL	0	446N	86 76W	S SOTW07WT

TIME	DATE	TIME	LOC	LOC	CODE	SAMPLE	IDFNT.	NUM.	CODE	LAT.	LUNG.	CRUISE	
0-1	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-17	18-19	20-21	22-23	24-25	
557	30	772	HF	45	PEN	NO.2	MPL	0	443N	86	74W	S	SOTW07WT
756	30	772	HF	46	PEN	NO.1	MPL	0	430N	86	68W	S	SOTW07WT
839	30	772	HF	46	PEN	NO.2	MPL	0	432N	86	67W	S	SOTW07WT
1702	30	772	HF	48	PEN	NO.1	MPL	0	454N	86	91W	S	SOTW07WT
1850	30	772	HF	48	PEN	NO.2	MPL	0	442N	86	89W	S	SOTW07WT
36	31	772	HF	49	PEN	NO.1	WHO	0	450N	86	77W	S	SOTW07WT
106	31	772	HF	49	PEN	NO.2	WHO	0	445N	86	77W	S	SOTW07WT
135	31	772	HF	49	PEN	NO.3	WHO	0	442N	86	78W	S	SOTW07WT
215	31	772	HF	49	PEN	NO.4	WHO	0	435N	86	79W	S	SOTW07WT
239	31	772	HF	49	PEN	NO.5	WHO	0	436N	86	79W	S	SOTW07WT
329	31	772	HF	49	PEN	NO.6	WHO	0	430N	86	81W	S	SOTW07WT
357	31	772	HF	49	PEN	NO.7	WHO	0	427N	86	81W	S	SOTW07WT
436	31	772	HF	49	PEN	NO.8	WHO	0	423N	86	82W	S	SOTW07WT
658	31	772	HF	50	PEN	NO.1	MPL	0	423N	86	114W	S	SOTW07WT
730	31	772	HF	50	PEN	NO.2	MPL	0	422N	86	115W	S	SOTW07WT
800	31	772	HF	50	PEN	NO.3	MPL	0	419N	86	116W	S	SOTW07WT
951	31	772	HF	51	PEN	NO.1	MPL	0	406N	86	115W	S	SOTW07WT
1028	31	772	HF	51	PEN	NO.2	MPL	0	404N	86	115W	S	SOTW07WT
1614	31	772	HF	52	PEN	NO.1	MPL	0	365N	86	117W	S	SOTW07WT
1648	31	772	HF	52	PEN	NO.2	MPL	0	367N	86	119W	S	SOTW07WT
2135	31	772	HF	53	PEN	NO.1	WHO	0	445N	86	71W	S	SOTW07WT
2211	31	772	HF	53	PEN	NO.2	WHO	0	440N	86	72W	S	SOTW07WT
12	1	872	HF	54	PEN	NO.1	WHO	0	417N	86	83W	S	SOTW07WT
49	1	872	HF	54	PEN	NO.2	WHO	0	413N	86	84W	S	SOTW07WT
134	1	872	HF	54	PEN	NO.3	WHO	0	408N	86	87W	S	SOTW07WT
210	1	872	HF	54	PEN	NO.4	WHO	0	405N	86	89W	S	SOTW07WT
248	1	872	HF	54	PEN	NO.5	WHO	0	403N	86	92W	S	SOTW07WT
329	1	872	HF	54	PEN	NO.6	WHO	0	401N	86	95W	S	SOTW07WT
550	1	872	HF	55	PEN	NO.1	MPL	0	385N	86	111W	S	SOTW07WT
806	1	872	HF	56	PEN	NO.1	MPL	0	404N	86	102W	S	SOTW07WT
835	1	872	HF	56	PEN	NO.2	MPL	0	405N	86	100W	S	SOTW07WT
902	1	872	HF	56	PEN	NO.3	MPL	0	407N	86	98W	S	SOTW07WT
1254	1	872	HF	57	PEN	NO.1	WHO	0	353N	86	110W	S	SOTW07WT
1513	1	872	HF	58	PEN	NO.1	WHO	0	391N	86	117W	S	SOTW07WT
1552	1	872	HF	58	PEN	NO.2	WHO	0	386N	86	118W	S	SOTW07WT
1629	1	872	HF	58	PEN	NO.3	WHO	0	376N	86	118W	S	SOTW07WT
1721	1	872	HF	58	PEN	NO.4	WHO	0	376N	86	116W	S	SOTW07WT
1800	1	872	HF	58	PEN	NO.5	WHO	0	371N	86	114W	S	SOTW07WT
1837	1	872	HF	58	PEN	NO.6	WHO	0	366N	86	112W	S	SOTW07WT
1908	1	872	HF	58	PEN	NO.7	WHO	0	362N	86	111W	S	SOTW07WT
1939	1	872	HF	58	PEN	NO.8	WHO	0	355N	86	109W	S	SOTW07WT
1956	1	872	HF	58	PEN	NO.9	WHO	0	354N	86	109W	S	SOTW07WT
2030	1	872	HF	58	PEN	NO.10	WHO	0	354N	86	107W	S	SOTW07WT
2051	1	872	HF	58	PEN	NO.11	WHO	0	352N	86	107W	S	SOTW07WT
2229	1	872	HF	59	PEN	NO.1	HF	0	357N	86	108W	S	SOTW07WT
2310	1	872	HF	59	PEN	NO.2	HF	0	355N	86	108W	S	SOTW07WT
2355	1	872	HF	59	PEN	NO.3	HF	0	351N	86	108W	S	SOTW07WT
147	2	872	HF	60	PEN	NO.1	MPL	0	345N	86	111W	S	SOTW07WT
233	2	872	HF	60	PEN	NO.2	MPL	0	341N	86	107W	S	SOTW07WT
314	2	872	HF	60	PEN	NO.3	MPL	0	336N	86	108W	S	SOTW07WT
545	2	872	HF	61	PEN	NO.1	MPL	0	325N	86	110W	S	SOTW07WT
608	2	872	HF	61	PEN	NO.2	MPL	0	325N	86	108W	S	SOTW07WT
653	2	872	HF	61	PEN	NO.3	MPL	0	323N	86	107W	S	SOTW07WT
946	2	872	HF	62	PEN	NO.1	HF	0	342N	86	87W	S	SOTW07WT

DATE	TIME	LOC	LOC CODE	SAMPLE IDENT.	SEQ. DISP	NUM. CODE	LAT.	LONG.	UNITS
MM	YY	LOC	LOC CODE	SAMPLE IDENT.	NUM. CODE	NUM. CODE	LAT.	LONG.	LE G-SHIP
2054	20	772	HF2M	H F WH01	7-03	WHO 3	369N	83 262W	S SOTW07WT
1204	23	772	HF2M	B HF WH01	7-12-1	WHO 2	232N	85 598W	S SOTW07WT
1420	23	772	HF2M	E HF WH01	7-12-2	WHO 2	106N	86 16M	S SOTW07WT
138	25	772	HF2M	B HF WH01	7-20	WHO 1	571N	86 12W	S SOTW07WT
815	25	772	HF2M	E HF WH01	7-20	WHO 1	552N	86 11W	S SOTW07WT
1619	22	772	HF4M	HEAT FLOW	7-06	MPL 3	190N	85 596W	S SOTW07WT
2216	23	772	HF4M	B HEAT FLOW	7-13-1	MPL 2	133N	85 597W	S SOTW07WT
2300	23	772	HF4M	E HEAT FLOW	7-13-2	MPL 2	135N	85 596W	S SOTW07WT
138	24	772	HF4M	H HEAT FLOW	7-14-1	MPL 2	172N	85 598W	S SOTW07WT
243	24	772	HF4M	E HEAT FLOW	7-14-2	MPL 2	170N	85 597W	S SOTW07WT
1021	25	772	HF4M	HEAT FLOW	7-21	MPL 1	498N	86 10W	S SOTW07WT
1248	25	772	HF4M	HEAT FLOW	7-22	MPL 1	518N	86 11W	S SOTW07WT
1320	25	772	HF4M	HEAT FLOW	7-22A	MPL 1	520N	86 12W	S SOTW07WT
1400	25	772	HF	HEAT FLOW	7-23	WHO 2	105N	86 20W	S SOTW07WT
635	26	772	HF4M	HEAT FLOW	7-24	MPL 2	273N	86 161W	S SOTW07WT
2052	26	772	HF4M	HEAT FLOW	7-27-2	HFP 2	357N	86 181W	S SOTW07WT
626	27	772	HF4M	HEAT FLOW	7-29	MPL 2	465N	85 422W	S SOTW07WT
1014	27	772	HF4M	HEAT FLOW	7-30	MPL 2	356A	85 437W	S SOTW07WT
2143	27	772	HF4M	HEAT FLOW	7-33	MPL 1	593N	85 404W	S SOTW07WT
2218	27	772	HF4M	HEAT FLOW	7-33	MPL 1	593N	85 401W	S SOTW07WT
136	28	772	HF4M	HEAT FLOW	7-34	MPL 1	442N	85 401W	S SOTW07WT
445	28	772	HF4M	HEAT FLOW	7-35	MPL 1	279N	85 397W	S SOTW07WT
816	28	772	HF4M	HEAT FLOW	7-36-1	MPL 1	109N	85 390W	S SOTW07WT
828	28	772	HF4M	HEAT FLOW	7-36-2	MPL 1	108N	85 390W	S SOTW07WT
1140	28	772	HF4M	HEAT FLOW	7-37	MPL 0	580N	85 401W	S SOTW07WT
1421	28	772	HF4M	HEAT FLOW	7-38	MPL 0	474N	85 407W	S SOTW07WT
241	27	772	HFPV	HEAT FLOW	7-28	WHO 2	309N	85 359W	S SOTW07WT
2215	22	772	HFPV	H F WH01	7-07	WHO 3	24N	86 5W	S SOTW07WT
1149	23	772	HFPV	H F WH01	7-11	WHO 2	232N	85 597W	S SOTW07WT
1854	27	772	HFPV	H F WH01	7-32	WHO 2	50N	85 382W	S SOTW07WT
2029	3	872	HFPV	H F 67		WHO 0	110S	85 583W	S SOTW07WT

*** BATHY-TERMOGRAPH ***

TIME GMT	DATE D.M.Y.	TIME TZ	SAMP LOC	IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
527	22	772	BTX	7-01	BTS	2	592N	84 122W	S SOTW07WT
2212	23	772	BTX	7-02	HTS	2	133N	85 597W	S SOTW07WT
757	24	772	BTX	7-03	BTS	2	83N	86 12W	S SOTW07WT
2215	26	772	BTX	7-04	BTS	2	365N	86 151W	S SOTW07WT

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

SPECIAL WATER CHEMISTRY PROGRAM

TIME GMT	DATE D.M.Y.	TIME TZ	SAMP LOC	IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
0300070872			BTX	ELNIN060TT 21.4C	BTS	10-434S	078-333W	S	SOTW07WT
0300070872			SSSA	ELNIN060TT 35.059	DCP	10-434S	078-333W	S	SOTW07WT
0430070872			BTX	ELNIN0NN44 21.1C	BTS	11-105S	078-033W	S	SOTW07WT
0430070872			SSSA	ELNIN0NN44 35.059	DCP	11-105S	078-033W	S	SOTW07WT
1300060872			BTX	ELNIN0EE5 22.0C	BTS	09-081S	080-148W	S	SOTW07WT
1300060872			SSSA	ELNIN0EE5 35.298	DCP	09-081S	080-148W	S	SOTW07WT
1700060872			BTX	ELNIN01717 22.6C	BTS	09-102S	080-136W	S	SOTW07WT
1700060872			SSSA	ELNIN01717 35.049	DCP	09-102S	080-136W	S	SOTW07WT
2100060872			BTX	ELNIN00075 22.1C	BTS	10-133S	079-072W	S	SOTW07WT
2100060872			SSSA	ELNIN00075 35.005	DCP	10-133S	079-072W	S	SOTW07WT

NDW-SIO PROGRAMS-PROFESSOR J.L.CHATSWORTH EXT. 2846

AFROSOLS--A.W.HIGAN S.U.N.Y.

TIME GMT	DATE D.M.Y.	TIME TZ	SAMP LOC	IDENT.	SEQ. NUM.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
2210	23	772	ASND	AEROSOL 7-01	AWH	2	133N	85 598W	S SOTW07WT
1230	26	772	ASND	AEROSOL 7-02	AWH	2	219N	86 391W	S SOTW07WT
0 27	772		ASND	AEROSOL 7-03	AWH	2	350N	85 527W	S SOTW07WT

END SAMPLE INDEX