

3.5 KHz Bathymetry

LOG

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OF

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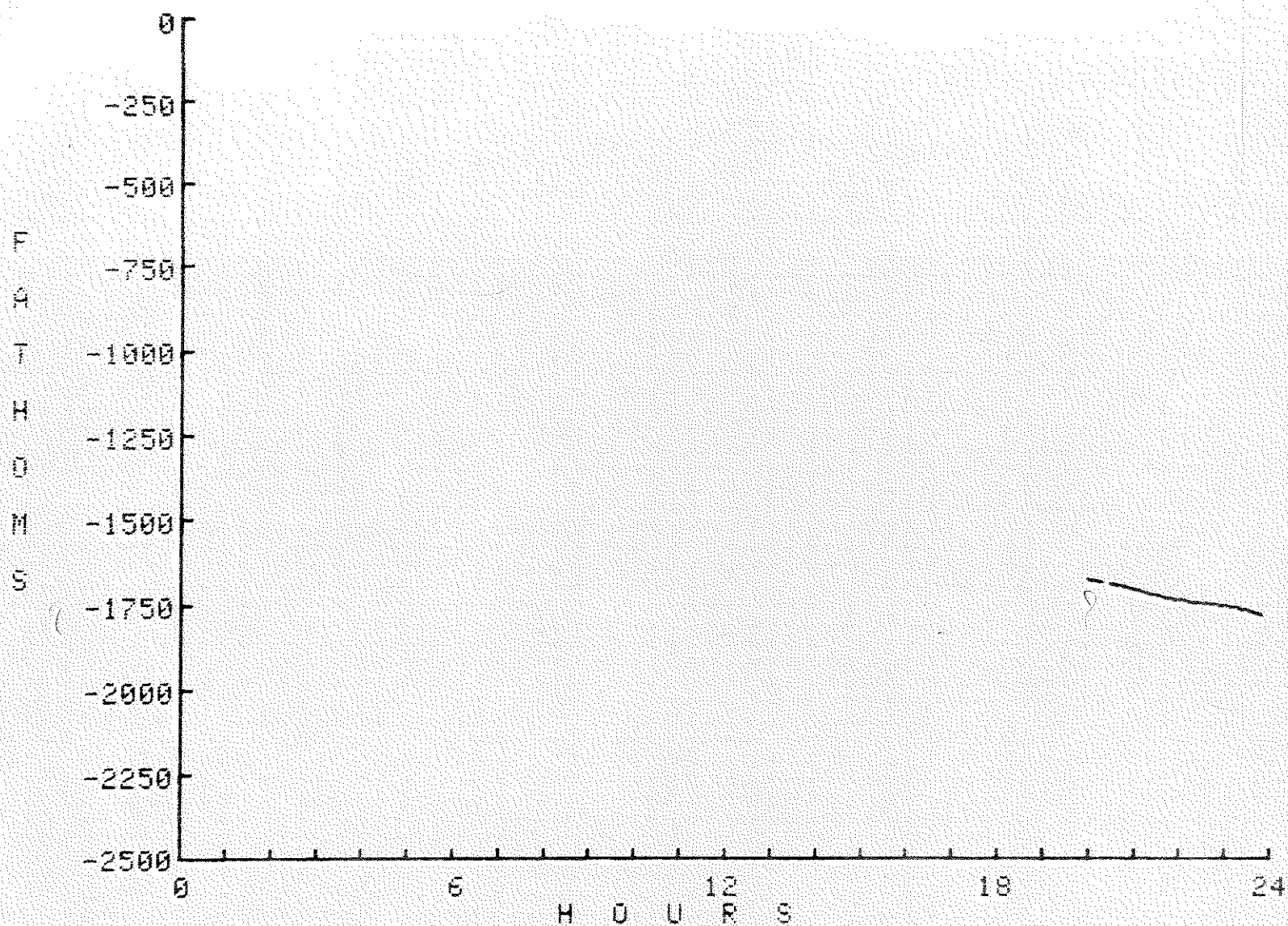
CRUISE		AREA		PROJECT		DATE	
V624-1		S.E. Gulf of Mexico		Gulf Tectonics II		5 MAR 77	
TIME	TIME	TIME	TIME	TIME	TIME	TIME	TIME
0000	0300	0600	0900	1200	1500	1800	2100
05							1705
10							1707
15							1709
20							1714
25							1718
0030	0330	0630	0930	1230	1530	1830	2130
35							1722
40							1725
45							1728
50							1731
55							1732
0100	0400	0700	1000	1300	1600	1900	2200
05							1736
10							1737
15							1739
20							1741
25							1746
0130	0430	0730	1030	1330	1630	1930	2230
35							1748
40							1749
45							1751
50							1752
55							1753
0200	0500	0800	1100	1400	1700	2000	2300
05						1677	1755
10						1678	1757
15						1680	1759
20						1682	1760
25						1683	1763
0230	0530	0830	1130	1430	1730	2030	2330
35						1690	1765
40						1691	1769
45						1693	1773
50						1695	1777
55						1699	1783
						1702	1785

Bathymetry

File #10
Bathy #1

FATHOMS

P.1



YEAR-1977 JULIAN DAY- 64 CRUISE IG- 24

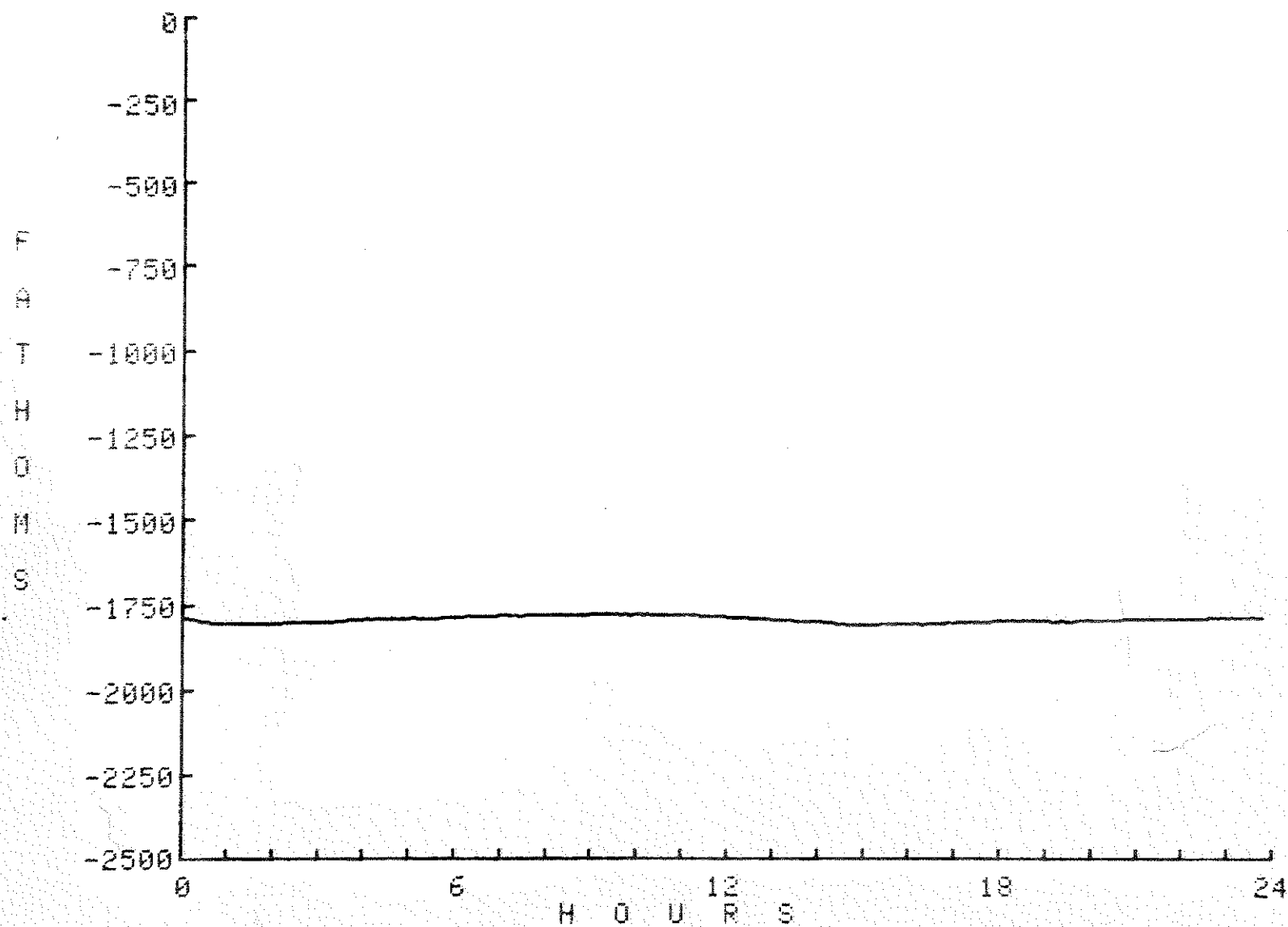
CRUISE		AREA				PROJECT								DATE	
IG-24-1		bathymetry												3/6/77	
TIME		TIME		TIME		TIME		TIME		TIME		TIME		TIME	
0000	1788	0300	1801	0600	1786	0900	1775	1200	1784	1500	1807	1800	1797	2100	1794
05	1790		1801		1784		1775		1784		1807		1797		1794
10	1794		1800		1784		1775		1784		1808		1797		1793
15	1795		1800		1782		1775		1784		1807		1797		1792
20	1796		1798		1782		1773		1786		1806		1797		1792
25	1800		1797		1782		1773		1786		1805		1797		1792
0030	1800	0330	1795	0630	1782	0930	1774	1230	1788	1530	1804	1830	1797	2130	1792
35	1801		1797		1781		1773		1788		1804		1796		1792
40	1802		1794		1781		1776		1788		1805		1796		1793
45	1802		1793		1780		1775		1789		1805		1796		1793
50	1803		1792		1780		1776		1790		1803		1796		1793
55	1803		1792		1780		1776		1790		1804		1797		1792
0100	1802	0400	1792	0700	1779	1000	1775	1300	1791	1600	1804	1900	1797	2200	1792
05	1803		1790		1779		1775		1793		1804		1797		1792
10	1803		1791		1779		1776		1792		1804		1798		1792
15	1804		1790		1780		1775		1793		1805		1798		1792
20	1805		1788		1779		1776		1793		1806		1798		1791
25	1805		1789		1780		1776		1794		1805		1797		1791
0130	1805	0430	1788	0730	1780	1030	1777	1330	1795	1630	1804	1930	1798	2230	1791
35	1804		1788		1779		1777		1797		1802		1798		1791
40	1805		1787		1777		1777		1796		1802		1798		1790
45	1805		1787		1777		1778		1797		1802		1797		1790
50	1805		1788		1778		1779		1796		1802		1797		1790
55	1805		1788		1778		1778		1795		1800		1797		1790
0200	1805	0500	1788	0800	1778	1100	1778	1400	1795	1700	1802	2000	1797	2300	1790
05	1803		1786		1776		1779		1797		1800		1797		1790
10	1802		1787		1777		1779		1800		1800		1797		1790
15	1801		1788		1776		1779		1800		1800		1797		1790
20	1800		1788		1776		1778		1798		1800		1797		1790
25	1798		1787		1776		1780		1802		1799		1797		1790
0230	1799	0530	1787	0830	1776	1130	1782	1430	1805	1730	1798	2030	1796	2330	1790
35	1798		1787		1777		1781	Put	1805		1798		1795		1789
40	1798		1787		1778		1782	the	1807		1799		1795		1788
45	1800		1786		1777		1782	Stn	1807		1799		1794		1788
50	1801		1786		1778		1782	out	1808		1798		1794		1788
55	1800		1785		1777		1782		1807		1797		1794		1788

Bathy.

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file 11

day 65



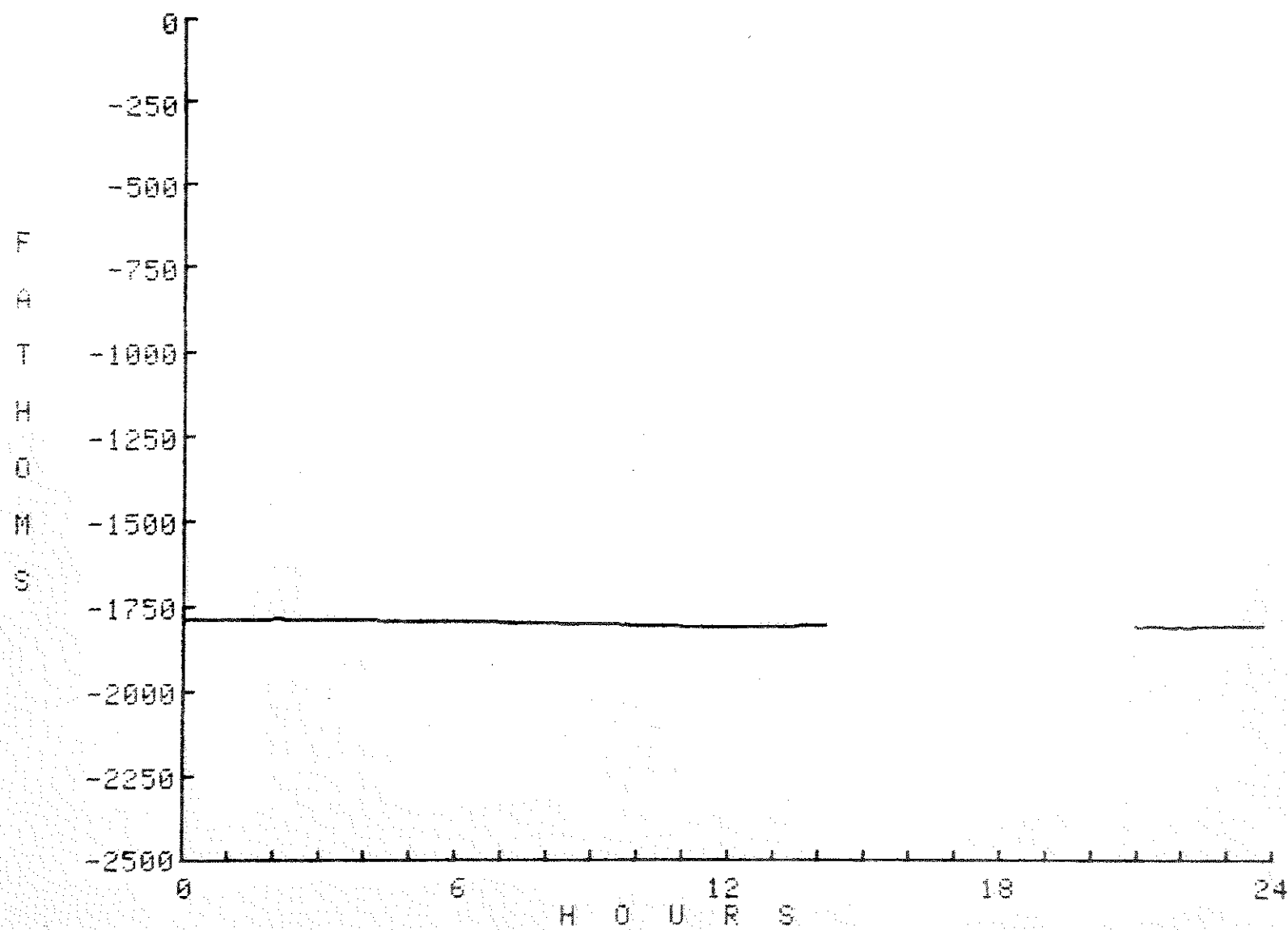
YEAR-1977 JULIAN DAY- 65 CRUISE IG- 24

CRUISE		AREA				PROJECT										DATE	
IG-24-1																7 March 78	
TIME		TIME		TIME		TIME		TIME		TIME		TIME		TIME		TIME	
0000	1788	0300	1787	0600	1792	0900	1800	1200	1808	1500		1800		2100	1812		
05	1787		1787		1792		1800		1808						1813		
10	1787		1787		1792		1800		1807						1813		
15	1787		1787		1793		1800		1807						1811		
20	1787		1787		1793		1800		1807						1811		
25	1787		1788		1793		1800		1807						1812		
0030	1787	0330	1789	0630	1793	0930	1801	1230	1807	1530		1830		2130	1811		
35	1787		1789		1793		1801		1807						1811		
40	1787		1789		1793		1802		1808						1813		
45	1787		1790		1793		1801		1808						1813		
50	1787		1790		1794		1802		1808						1813		
55	1787		1790		1794		1802		1808						1813		
0100	1787	0400	1790	0700	1795	1000	1803	1300	1808	1600		1900		2200	1812		
05	1787		1790		1795		1802		1807						1813		
10	1787		1790		1795		1802		1807						1813		
15	1787		1790		1795		1803		1807						1813		
20	1787		1791		1796		1803		1807						1811		
25	1787		1791		1796		1803		1806						1811		
0130	1787	0430	1791	0730	1796	1030	1803	1330	1806	1630		1930		2230	1812		
35	1787		1791		1796		1803		1805						1812		
40	1787		1791		1796		1804		1804						1812		
45	1787		1791		1796		1804		1803						1812		
50	1787		1791		1796		1805		1803						1811		
55	1787		1791		1796		1805		1803						1811		
0200	1786	0500	1791	0800	1796	1100	1806	1400	1803	1700		2000	1809	2300	1812		
05	1786		1791		1797		1806		1803						1812		
10	1786		1791		1797		1806		1803						1811		
15	1787		1792		1797		1808	Working on the							1810		
20	1787		1792		1798		1808	+ h c							1810		
25	1787		1792		1798		1807	steamer							1810		
0230	1787	0530	1791	0830	1798	1130	1807	1430		1730		2030		2330	1810		
35	1788		1791		1798		1808								1810		
40	1787		1792		1799		1808								1809		
45	1788		1792		1799		1808								1809		
50	1788		1792		1800		1808								1809		
55	1788		1792		1800		1808								1809		

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Bathymetry

file 12
day 66

Bathy.
on chart
But
not
Records 12
1
DURING
steamer repair -
man power



YEAR-1977 JULIAN DAY- 66 CRUISE IG- 24

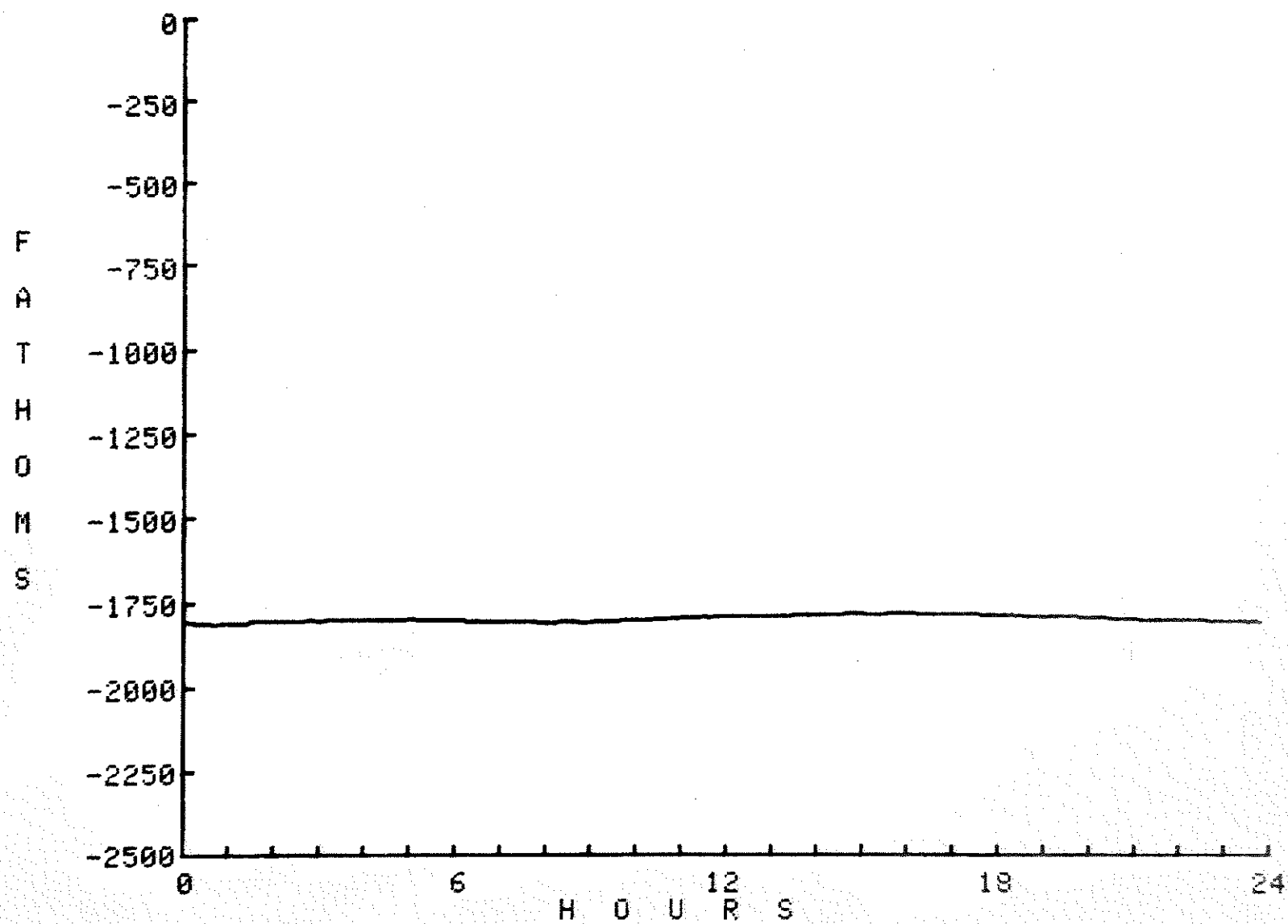
CRUISE		AREA		PROJECT		DATE	
IG 24-1		Gulf of Mexico		Gulf Ted II		8 MAR 77	
TIME		TIME		TIME		TIME	
0000	1807	0300	1802	0600	1799	0900	1806
05	1807		1802		1800		1805
10	1807		1801		1800		1802
15	1807		1800		1802		1803
20	1807		1800		1803		1804
25	1807		1800		1803		1804
0030	1807	0330	1800	0630	1803	0930	1803
35	1810		1799		1803		1802
40	1813		1799		1802		1801
45	1813		1798		1802		1801
50	1810		1798		1802		1800
55	1810		1798		1802		1800
0100	1810	0400	1798	0700	1803	1000	1800
05	1810		1798		1803		1799
10	1811		1798		1803		1800
15	1811		1798		1804		1800
20	1811		1798		1805		1798
25	1810		1798		1805		1797
0130	1803	0430	1799	0730	1805	1030	1797
35	1803		1799		1805		1796
40	1803		1798		1805		1795
45	1803		1798		1805		1795
50	1803		1798		1806		1794
55	1803		1798		1807		1795
0200	1803	0500	1797	0800	1807	1100	1794
05	1804		1797		1807		1793
10	1804		1798		1807		1792
15	1802		1798		1807		1793
20	1803		1798		1805		1792
25	1804		1798		1805		1792
0230	1804	0530	1798	0830	1805	1130	1790
35	1803		1798		1805		1791
40	1803		1799		1805		1791
45	1801		1800		1808		1790
50	1801		1800		1807		1790
55	1802		1799		1807		1789

Bathymetry

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File 13

day 67

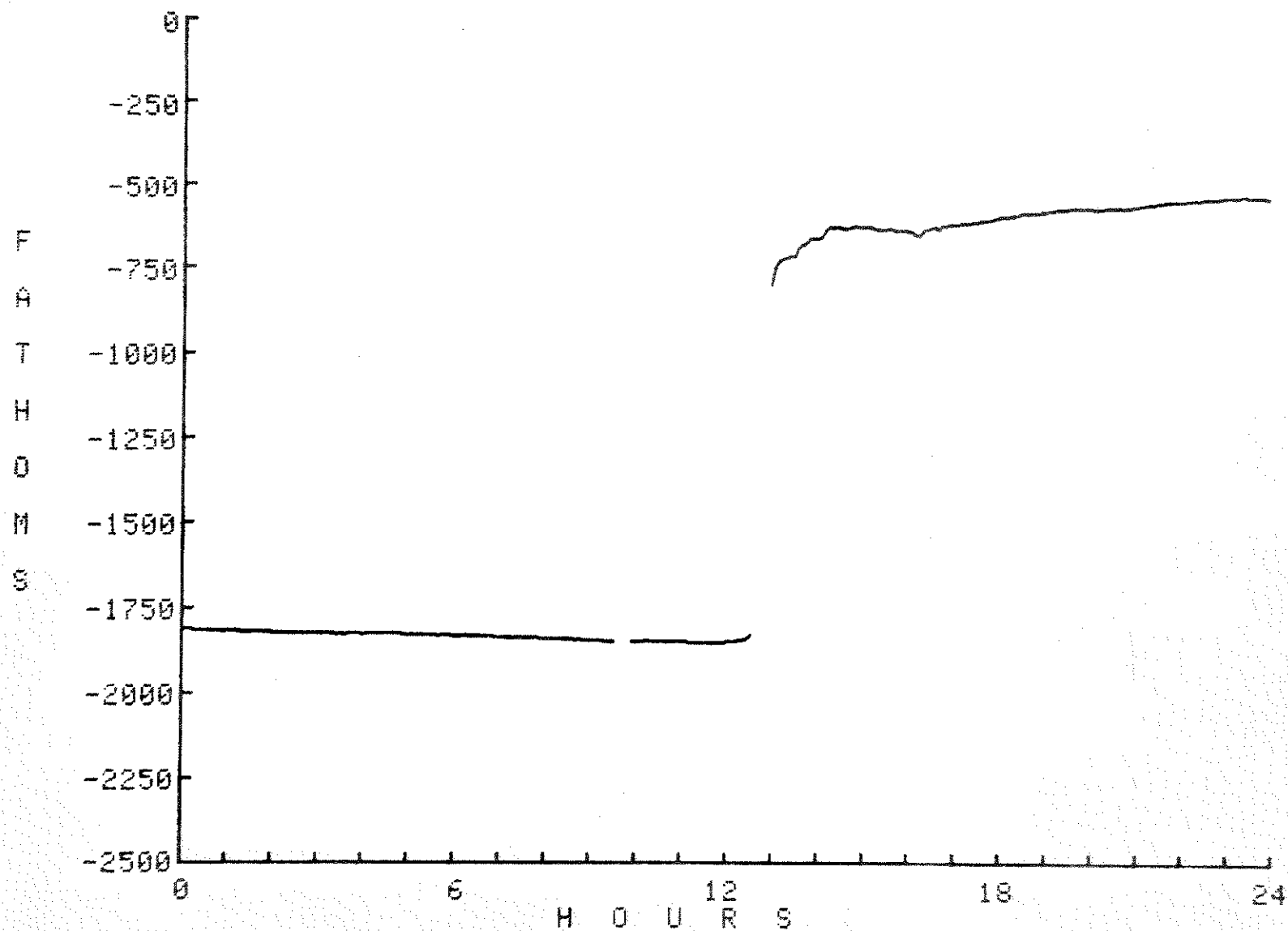


YEAR-1977 JULIAN DAY- 67 CRUISE IG- 24

CRUISE		AREA		PROJECT		DATE	
IG-24-1						9 Mar. '77	
TIME		TIME		TIME		TIME	
0000	1811	0300	1824	0600	1829	0900	1842
	1811		1824		1829		1842
05	1812		1823		1829		1841
	1812		1823		1829		1841
10	1812		1821		1829		1841
	1812		1821		1829		1841
15	1813		1821		1828		1842
	1813		1821		1828		1842
20	1813		1823		1829		1843
	1813		1823		1829		1843
25	1813		1825		1829		1844
	1813		1825		1829		1844
0030	1813	0330	1824	0630	1829	0930	1843
	1813		1824		1829		1843
35	1814		1825		1829	Changing	Coming
	1814		1825		1829	the	up
40	1813		1824		1829		
	1813		1824		1829		
45	1814		1824		1831	paper	the
	1814		1824		1831		
50	1816		1824		1831		camp
	1816		1824		1831		he
55	1817		1824		1832		1845
	1817		1824		1832		1845
0100	1815	0400	1825	0700	1833	1000	1845
	1815		1825		1833		1845
05	1815		1824		1833		1844
	1815		1824		1833		1844
10	1815		1824		1833		1843
	1815		1824		1833		1843
15	1817		1823		1834		1842
	1817		1823		1834		1842
20	1817		1823		1835		1843
	1817		1823		1835		1843
25	1817		1823		1834		1843
	1817		1823		1834		1843
0130	1817	0430	1823	0730	1835	1030	1843
	1817		1823		1835		1843
35	1819		1821		1835		1844
	1819		1821		1835		1844
40	1818		1821		1834		1844
	1818		1821		1834		1844
45	1819		1823		1835		1844
	1819		1823		1835		1844
50	1818		1824		1835		1844
	1818		1824		1835		1844
55	1819		1825		1836		1844
	1819		1825		1836		1844
0200	1822	0500	1825	0800	1836	1100	1845
	1822		1825		1836		1845
05	1823		1826		1836		1846
	1823		1826		1836		1846
10	1823		1826		1837		1847
	1823		1826		1837		1847
15	1823		1826		1837		1848
	1823		1826		1837		1848
20	1822		1828		1838		1848
	1822		1828		1838		1848
25	1822		1828		1838		1849
	1822		1828		1838		1849
0230	1822	0530	1824	0830	1839	1130	1849
	1822		1824		1839		1849
35	1823		1828		1839		1849
	1823		1828		1839		1849
40	1823		1829		1840		1850
	1823		1829		1840		1850
45	1824		1827		1839		1849
	1824		1827		1839		1849
50	1824		1827		1841		1847
	1824		1827		1841		1847
55	1822		1827		1842		1847
	1822		1827		1842		1847

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BA Hydrology

file 14
day 68



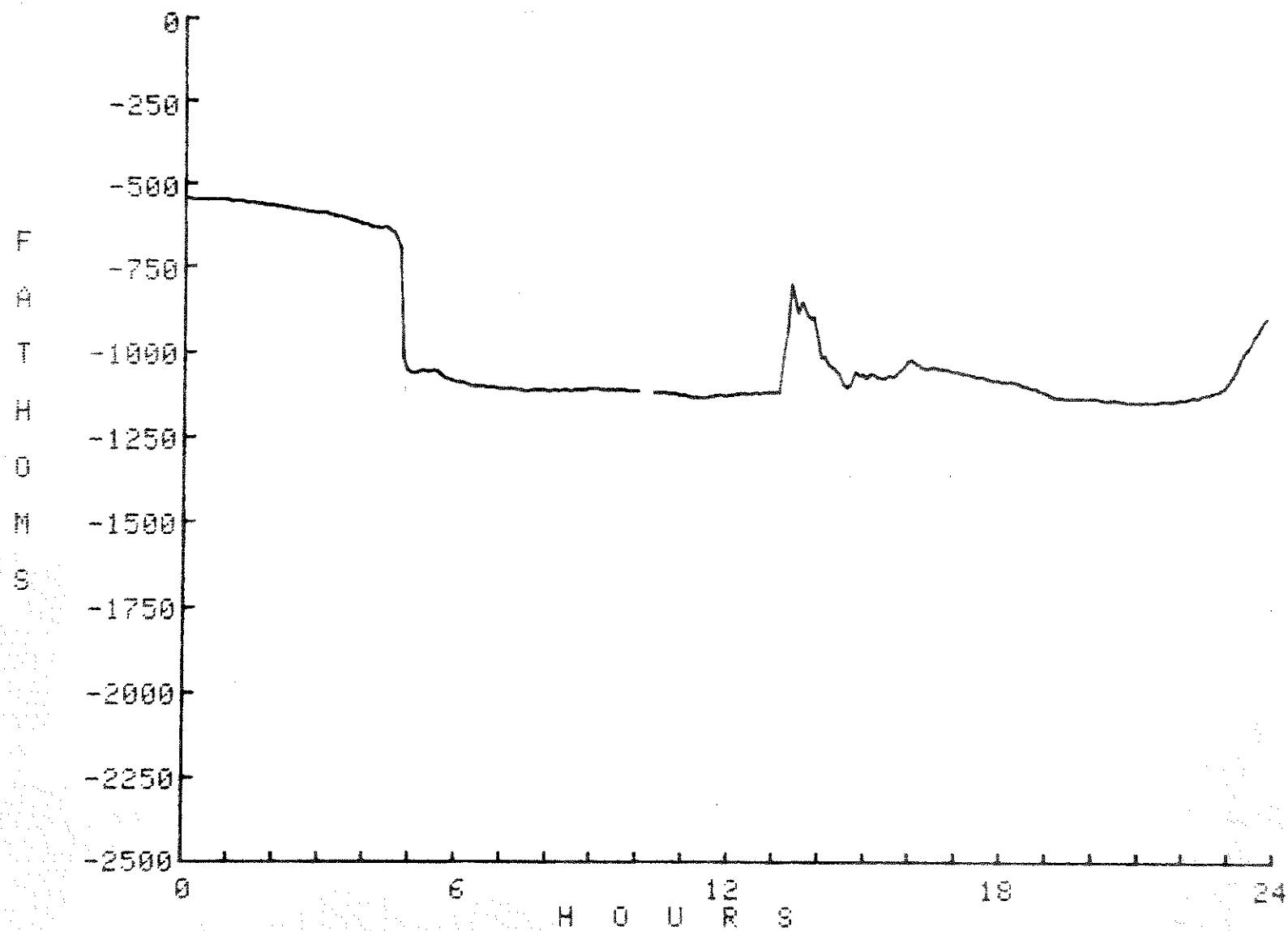
YEAR-1977 JULIAN DAY- 68 CRUISE IG- 24

CRUISE IG-24-1		AREA S.E. Gulf - Yucatan Straits				PROJECT Gulf Tectonics II				DATE 10 Mar. '77					
TIME		TIME		TIME		TIME		TIME		TIME		TIME			
0000	547	0300	588	0600	1087	0900	1107	1200	1127	1500	1076	1800	1087	2100	1147
05	547		590		1090		1108		1125		1065		1088		1148
10	549		593		1093		1109		1123		1066		1089		1147
15	549		595		1096		1109		1122		1074		1090		1148
20	550		598		1098		1110		1122		1076		1092		1148
25	550		601		1100		1110		1123		1077		1097		1147
0030	550	0330	603	0630	1101	0930	1110	1230	1121	1530	1071	1830	1100	2130	1146
35	550		607		1101		1111		1120		1074		1103		1146
40	549		610		1102		1112		1121		1065		1106		1145
45	550		615		1103		1113		1120		1054		1108		1144
50	551		618		1104		1113		1120		1041		1113		1143
55	551		620		1105		1114		1118		1030		1118		1142
0100	552	0400	623	0700	1106	1000	1114	1300	1119	1600	1025	1900	1124	2200	1141
05	553		629		1106	Change			1119		1031		1127		1140
10	553		629		1108	paper			1213		1039		1132		1137
15	554		633		1108				940		1045		1133		1134
20	556		632		1109		1120		800		1049		1134		1136
25	557		630		1112		1119		855		1047		1136		1131
0130	558	0430	641	0730	1114	1030	1119	1330	885	1630	1046	1930	1137	2230	1127
35	560		649		1115		1119		850		1048		1137		1125
40	562		661		1112		1121		880		1049		1137		1122
45	563		692		1112		1123		900		1051		1137		1120
50	565		1020		1112		1124		901		1052		1137		1114
55	566		1055		1112		1125		955		1056		1137		1107
0200	567	0500	1061	0800	1113	1100	1127	1400	1015	1700	1058	2000	1137	2300	1092
05	568		1062		1115		1130		1016		1061		1138		1076
10	570		1059		1112		1132		1037		1065		1139		1056
15	572		1055		1113		1134		1046		1068		1140		1027
20	574		1060		1112		1135		1059		1070		1145		1007
25	577		1057		1112		1135		1067		1072		1141		994
0230	578	0530	1052	0830	1113	1130	1133	1430	1096	1730	1073	2030	1142	2330	978
35	580		1057		1112		1130		1104		1075		1143		956
40	581		1071		1110		1128		1092		1077		1145		939
45	582		1077		1110		1127		1058		1080		1147		918
50	585		1080		1110		1127		1070		1083		1147		902
55	587		1084		1107		1128		1068		1084		1148		898

Bathymetry

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File 15
day 69

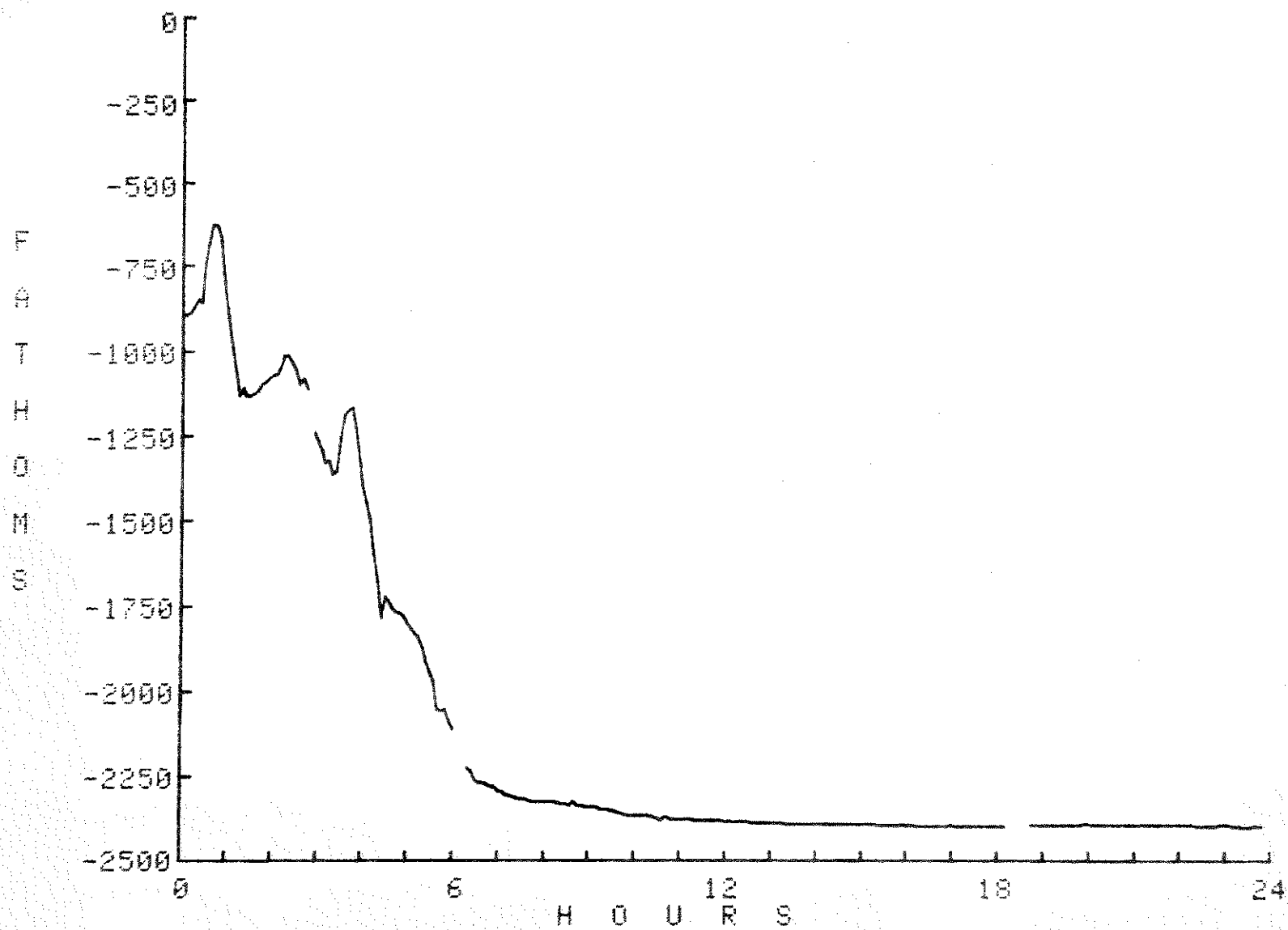


YEAR-1977 JULIAN DAY- 69 CRUISE IG- 24

CRUISE		AREA				PROJECT								DATE	
1624-1		SE GULF YUCATAN STR				GULF TECTONICS II - EXXON								11 MAR 77	
TIME		TIME		TIME		TIME		TIME		TIME		TIME		TIME	
0000	892	0300	1270	0600	2107	0900	2338	1200	2382	1500	2390	1800	2397	2100	2396
05	898		1297		2108		2338		2383		2392		2397		2396
10	898		1326		2109		2339		2383		2392		2397		2396
15	868		1350		2110		2343		2384		2392		2400		2396
20	850		1362		2222		2345		2385		2392		2400		2396
25	860		1352		2233		2346		2385		2393		2400		2396
0030	748	0330	1255	0630	2259	0930	2349	1230	2385	1530	2393	1830	2397	2130	2396
35	680		1188		2265		2352		2386		2393		2397		2396
40	630		1175		2267		2356		2386		2394		2397		2396
45	630		1168		2269		2361		2386		2394		2396		2396
50	663		1235		2277		2364		2387		2394		2396		2396
55	800		1295		2279		2366		2387		2395		2396		2396
0100	905	0400	1345	0700	2295	1000	2365	1300	2388	1600	2395	1900	2396	2200	2396
05	982		1447		2295		2366		2388		2396		2396		2396
10	1055		1500		2303		2365		2388		2396		2396		2396
15	1134		1600		2306		2365		2388		2397		2396		2396
20	1109		1680		2308		2365		2389		2397		2396		2396
25	1135		1785		2312		2370		2389		2397		2394		2397
0130	1133	0430	1710	0730	2316	1030	2373	1330	2389	1630	2397	1930	2394	2230	2398
35	1126		1739		2317		2379		2387		2397		2394		2398
40	1116		1755		2320		2370		2387		2397		2394		2398
45	1099		1764		2322		2373		2390		2397		2394		2398
50	1092		1770		2322		2375		2390		2397		2394		2398
55	1082		1779		2322		2375		2390		2397		2392		2396
0200	1075	0500	1799	0800	2323	1100	2376	1400	2390	1700	2397	2000	2392	2300	2396
05	1069		1816		2323		2377		2389		2396		2394		2396
10	1042		1830		2323		2377		2389		2397		2394		2397
15	1016		1843		2324		2377		2389		2397		2394		2398
20	1012		1875		2325		2378		2390		2397		2394		2399
25	1035		1968		2339		2378		2390		2397		2394		2400
0230	1058	0530	1938	0830	2330	1130	2378	1430	2390	1730	2397	2030	2394	2330	2400
35	1098		1970		2332		2378		2390		2397		2396		2400
40	1082		2050		2333		2379		2390		2397		2396		2399
45	1110		2065		2335		2380		2390		2397		2396		2398
50	1110		2050		2335		2380		2390		2397		2396		2397
55	1138		2085		2337		2381		2390		2397		2396		2397

Bathymetry
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File 16
day 70



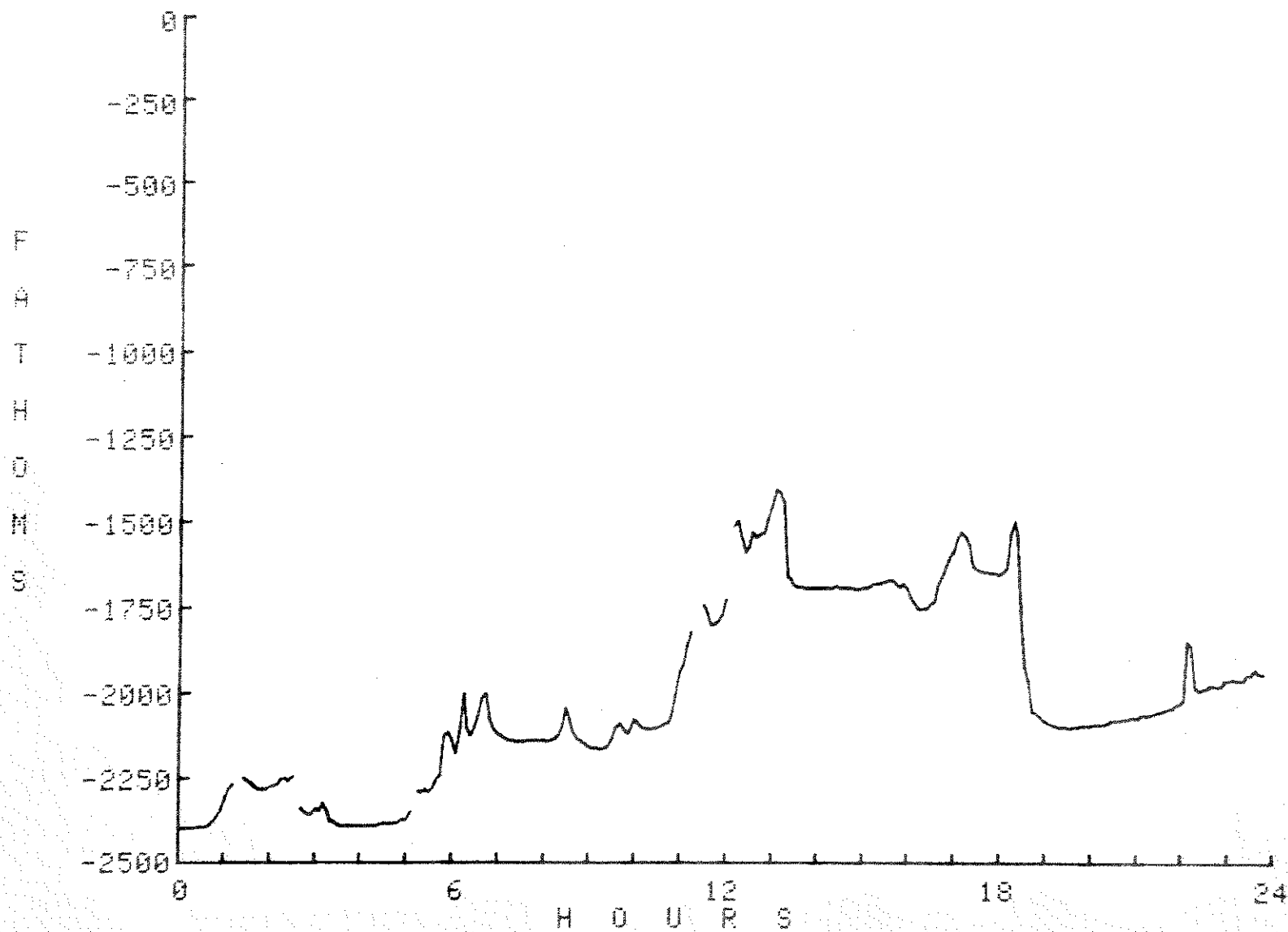
YEAR-1977 JULIAN DAY- 70 CRUISE IG- 24

CRUISE		AREA		PROJECT		DATE	
JG-24-1		Yucatan Straits NW Caribbean		Gulf Tectonics II - Exxon		3/12/77	
TIME	TIME	TIME	TIME	TIME	TIME	TIME	TIME
0000	2397	0300	2327	0600	2137	0900	2155
05	2397		2344		2173		2157
10	2397		2324		2100		2159
15	2397		2340		2060?		2160
20	2397		2377		2100		2159
25	2396		2380		2122		2152
0030	2395	0330	2388	0630	2092	0930	2131
35	2394		2390		2060		2098
40	2391		2390		2010		2084?
45	2378		2391		2000?		2100?
50	2365		2391		2080?		2115
55	2343		2392		2103		2105?
0100	2312	0400	2392	0700	2115	1000	2076
05	2280		2392		2123		2085
10	2265		2391		2130		2095
15	Lost		2390		2135		2099
20	Signal		2390		2137		2100
25	2250		2387		2140		2100
0130	2255	0430	2385	0730	2140	1030	2095
35	2263		2384		2139		2092
40	2275		2383		2137		2087
45	2280		2383		2137		2083
50	2283		2380		2137		2060?
55	2282		2374		2137		2000?
0200	2275	0500	2373	0800	2137	1100	1935
05	2270		2350		2138		1912
10	2265		2		2137		1857
15	2253		2226		2133		1818
20	2248		2229		2120		1800?
25	2255		2220		2098		1700?
0230	2246	0530	2270	0830?	2040?	1130	1740
35	22		2216		2078		1768
40	2236		2261		2116		1775
45	2248		2240		2132		1797
50	2258		2125		2140		1788
55	2364		2113		2148		1770

Bathymetry

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File 17
day 71

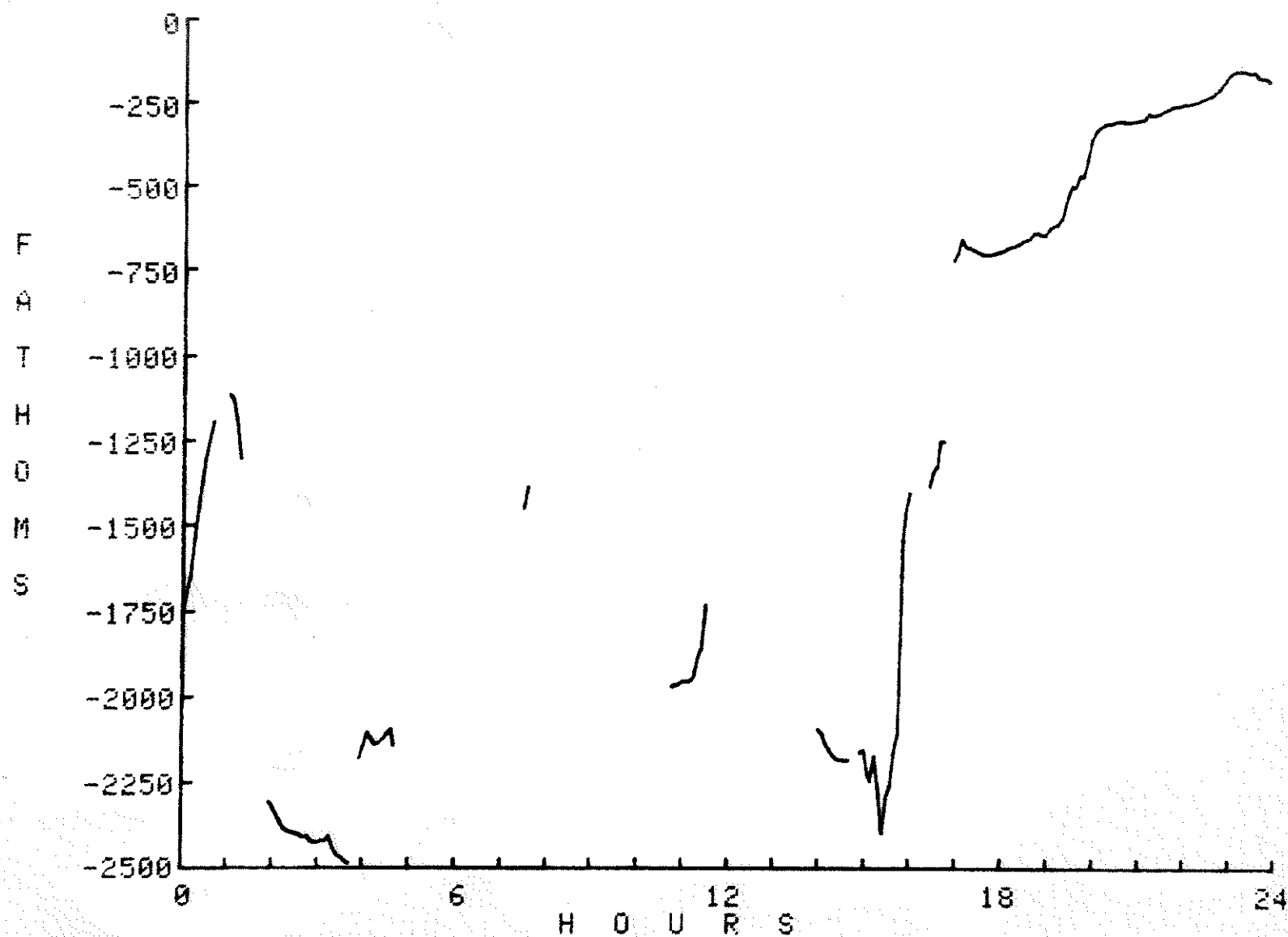


YEAR-1977 JULIAN DAY- 71 CRUISE IG- 24

CRUISE			AREA				PROJECT				DATE			
F624-1			NE CARIBBEAN				EXXON line				3/13/77			
TIME		TIME		TIME		TIME		TIME		TIME		TIME		TIME
0000	1750	0300	2423	0600		0900		1200		1500	2149	1800	692	2100
05	1690		2422								2220		686	301
10	1640		2420								2240		683	282
15	1535		2405								2170		679	290
20	1438		2440		2726						2265		672	287
25	1360		2461								2395		668	284
0030	1305	0330	2448	0630		0930		1230		1530	2290	1830	662	2130
35	1247		2480		~2200?						2255		660	271
40	1195		2490								2150		644	265
45	Paper		Lost		too						2100		641	261
50	CHANGE		Swal		sheep						1540		648	261
55			2175								1460		646	257
0100	1115	0400	2140	0700		1000		1300		1600	1400	1900	627	2200
05	1130		2102		1866								620	253
10	1195		2120										617	252
15	1305		2135										603	249
20	Lost		2130		pull down								580	243
25	the		2120										536	239
0130	Signal	0430	2105	0730	1446	1030		1330		1630	1338	1930	502	2230
35	---		2089		1385						1320		504	226
40	---		2140								1250		420	217
45	---		Lost				1965				1250		421	207
50	---						1960				7		420	191
55	2303		Signal				1958				725		363	172
0200	2324	0500		0800		1100	1950	1400	2090	1700	700	2000	335	2300
05	2345						1951		2103		660		323	159
10	2370		Lost				1949		2135		680		317	158
15	2384		Signal				1938		2155		605		319	159
20	2390						1880		2170		690		311	162
25	2394						1853		2175		695		308	164
0230	2398	0530		0830		1130	1729	1430	2100	1730	700	2030	307	2330
35	2400								2180		702		307	176
40	2410		Lost						2180		704		310	181
45	2405		Signal								702		310	182
50	2420										701		304	192
55	2425								2157		697		307	195

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File 18
day 72



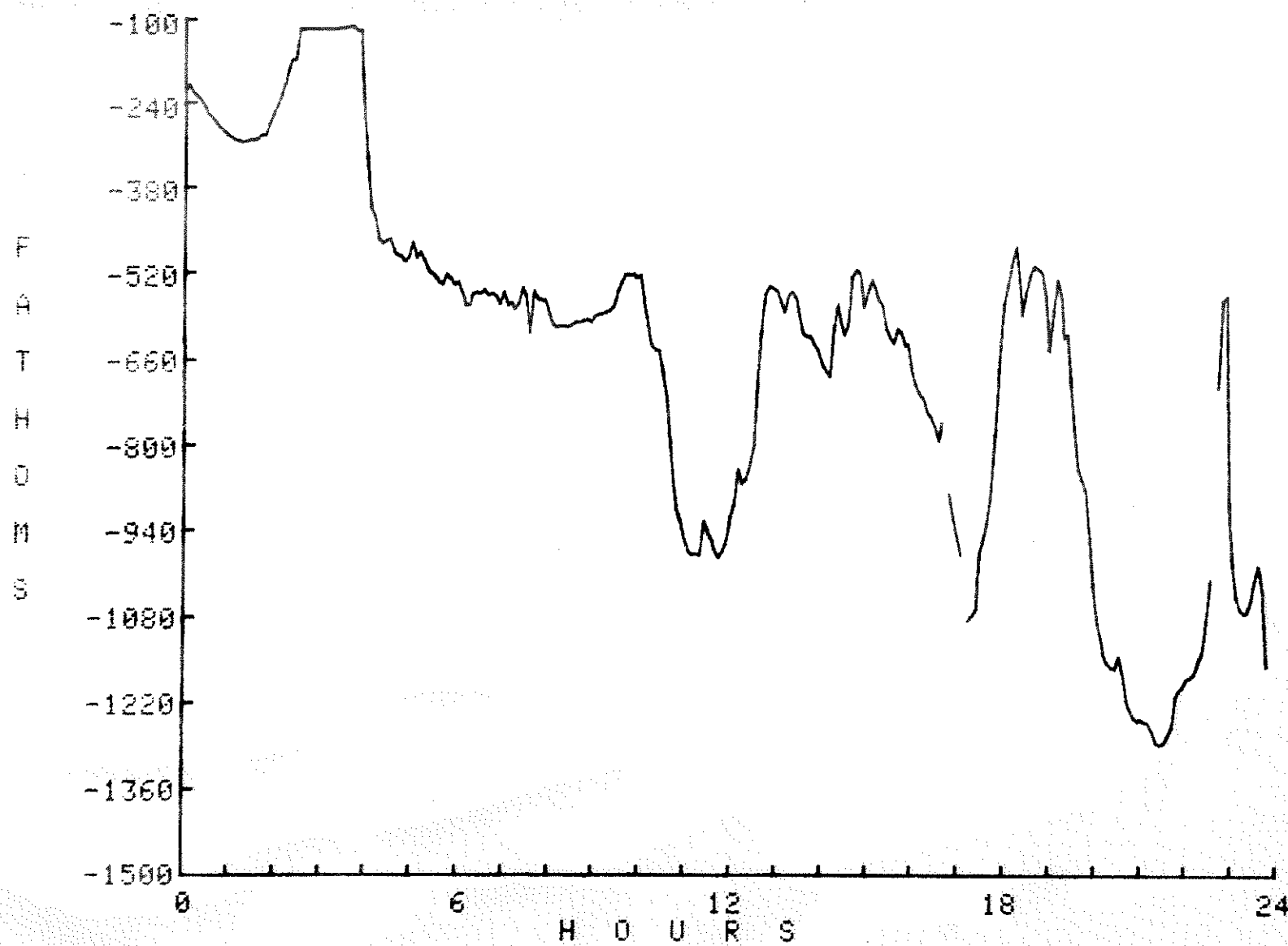
YEAR-1977 JULIAN DAY- 72 CRUISE IG- 24

CRUISE FG 24-1			AREA CARIBBEAN			PROJECT TRANSIT to PANAMA CANAL			DATE 3/14/77						
TIME		TIME		TIME		TIME		TIME		TIME		TIME			
0000	218	0300	115	0600	534	0900	592	1200	916	1500	550	1800	570	2100	1249
05	217		114		551		588		897		532		539		1247
10	223		114		573		587		840		543		503		1251
15	227		114		573		583		863		564		471		1253
20	235		114		553		580		855		273		539		1265
25	245		113		550		579		833		610		589		1285
0030	256	0330	112	0630	552	0930	548	1230	800	1530	624	1830	553	2130	1288
35	262		111		546		534		714		633		524		1287
40	270		111		556		522		615		610		510		1272
45	279		118		553		523		556		619		515		1258
50	285		117		553		522		542		637		522		1208
55	291		233		571		528		544		635		560		1200
0100	295	0400	333	0700	550	1000	524	1300	549	1600	679	1900	647	2200	1195
05	300		415		572		569		569		703		580		1182
10	303		430		568		609		582		717		532		1179
15	304		464		578		636		555		725		563		1173
20	303		492		571		645		550		748		628		1153
25	301		468		544		647		562		756		621		1139
0130	300	0430	464	0730	558	1030	682	1330	588	1630	772	1930	706	2230	1087
35	297		486		616		724		617		794		775		1020
40	291		490		548		800		622		765		840	Stee P	
45	291		492		562		869		623		70		860		710
50	273		500		564		905		637		880		877		566
55	257		494		567		925		646		920		947		560
0200	242	0500	470	0800	590	1100	953	1400	669	1700	950	2000	1035	2300	910
05	225		493		602		974		679		980		1086		1000
10	205		485		609		979		688		70		1116		1050
15	187		500		606		977		605		1087		1141		1070
20	164		576		605		979		670		1078		1157		1076
25	166		520		608		925		597		1070		1163		1073
0230	115	0530	523	0830	603	1130	943	1430	620	1730	982	2030	1166	2330	1058
35	115		535		600		956		602		959		1145		1020
40	115		539		599		973		626		929		1174		999
45	115		522		597		984		515		880		1218		1040
50	115		527		596		973		522		780		1234		1161
55	115		539		600		955		577		660		1244		1200

Barthometry

p. 10

file 19
day 73



YEAR-1977 JULIAN DAY- 73 CRUISE IG- 24

BATHY

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check
scale030
170file 20
day 74

LOG

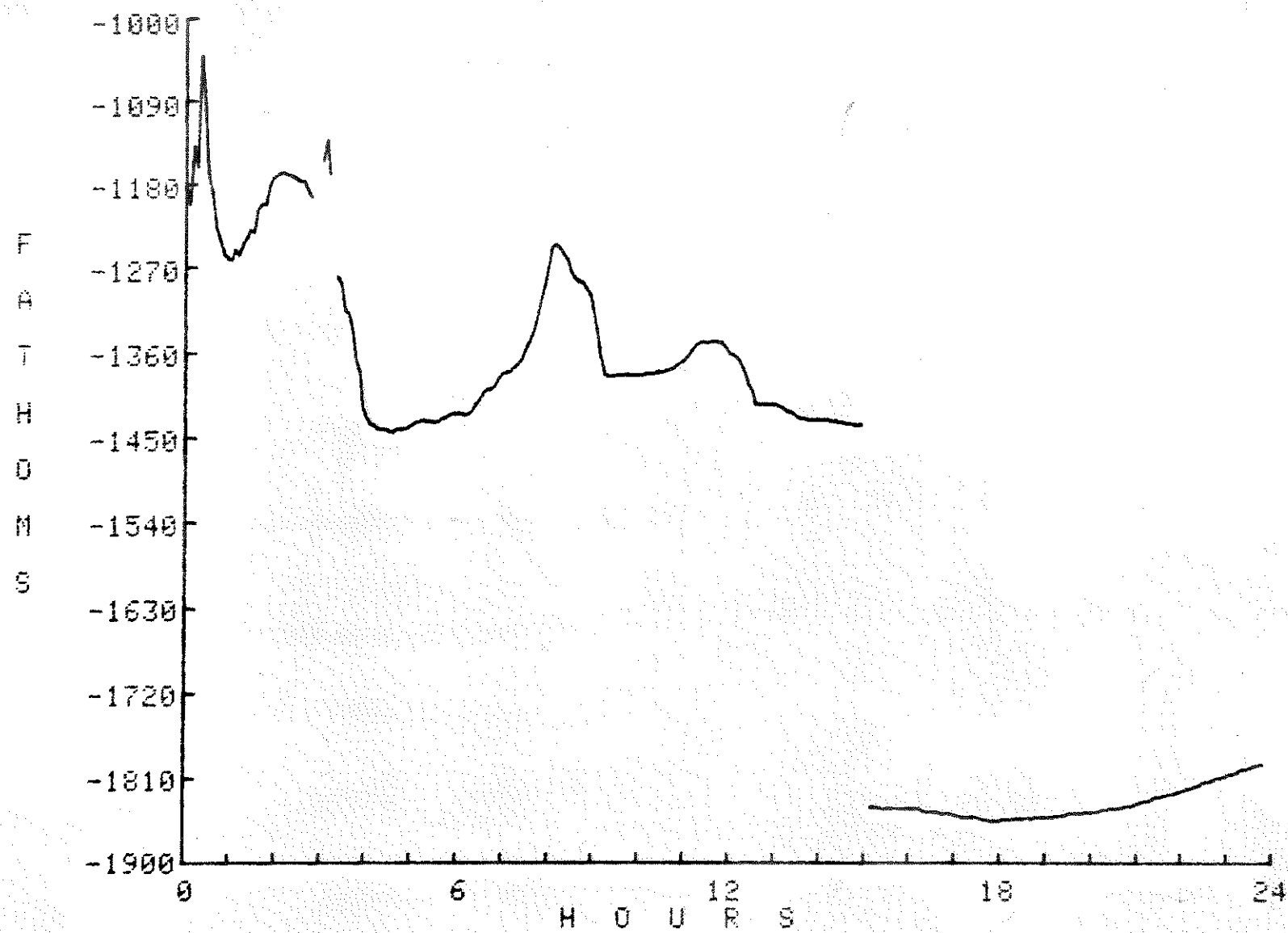
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CRUISE			AREA			PROJECT			DATE		
16 24-1			CARRIBBEAN			TRANSIT TO PANAMA CANAL			3/15/77		
TIME		TIME		TIME		TIME		TIME		TIME	
0000	11180	0300	11155	0600	11424	0900	13115	1200	13611	1500	18411
05	1202		11132		11424		1338		1362		1854
10	1140		11168		11426		1365		1366		1854
15	1161				11425		1384		1372		1854
20	1040		1219		11421		1385		1383		1853
25	1105		1286		11415		1385		1395		1853
0030	1166	0330	1314	0630	1409	0930	1384	1230	1402	1530	1841
35	1189		1319		1403		1384		1415		1841
40	1227		1334		1398		1384		1415		1841
45	1240		1368		1398		1384		1415		1841
50	1255		1381		1394		1384		1415		1841
55	1261		1415		1387		1384		1415		1841
0100	1262	0400	1428	0700	1382	1000	1384	1300	1415	1600	1841
05	1252		1435		1380		1384		1416		1842
10	1256		1437		1377		1383		1419		1842
15	1244		1440		1375		1383		1421		1842
20	1237		1440		1372		1382		1423		1844
25	1230		1441		1367		1381		1426		1845
0130	1232	0430	1443	0730	1357	1030	1380	1330	1429	1630	1841
35	1207		1443		1348		1379		1430		1846
40	1202		1441		1337		1378		1430		1846
45	1202		1441		1322		1377		1431		1847
50	1180		1440		1303		1374		1431		1848
55	1173		1439		1287		1371		1431		1848
0200	1169	0509	1436	0800	1265	1100	1368	1400	1431	1700	1849
05	1166		1434		1248		1363		1431		1850
10	1168		1432		1245		1358		1431		1851
15	1169		1431		1249		1352		1432		1851
20	1171		1432		1257		1350		1433		1852
25	1174		1433		1262		1349		1434		1852
0230	1176	0530	1434	0830	1275	1130	1350	1430	1434	1730	1852
35	1177		1432		1282		1349		1435		1853
40	1187		1430		1284		1349		1435		1854
45	1194		1428		1286		1348		1436		1854
50	?		1426		1292		1350		1436		1855
55	?		1424		1300		1355		1437		1855

putting out streamer - records are on rd



YEAR-1977 JULIAN DAY- 74 CRUISE IG- 24

050
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DOWN -
NEAR ANCHORAGE