

CRUISE			AREA			PROJECT			DATE		
IG-23			Gulf of Mexico			Gulf Tectonics 2			2 Dec 76		
TIME		TIME		TIME		TIME		TIME		TIME	
0000		0300		0600	18	0900	62	1200	605	1500	832
05					18		70		615		833
10					19		83		619		834
15					19		99		614		835
20					20		118		606		835
25	7				20		131		600		834
0030	7	0330		0630	21	0930	157	1230	584	1530	836
35	7				22		191		583		838
40	7				22		212		584		838
45	7				22		217		582		833
50	7				23		205		586		815
55	6		13		22		212		600		806
0100	6	0400	13	0700	23	1000	205	1300	613	1600	800
05	6		13		22		193		628		799
10	6		14		22		227		614		798
15	6		14		23		267		652		797
20	5		14		24		289		672		810
25	6		14		24		293		683		792
0130	6	0430	14	0730	26	1030	313	1330	690	1630	790
35	6		14				340		700		797
40	7		15				370		713		800
45	7		15				400		720		800
50	7		15				411		725		799
55	8		15				427		728		792
0200	8	0500	16	0800		1100	432	1400	733	1700	803
05			16		45		430		738		818
10			16		36		425		742		830
15			16		38		423		743		829
20			16		39		437		749		823
25			17		41		458		758		818
0230		0530	17	0830	43	1130	477	1430	776	1730	816
35			17		44		489		762		797
40			17		46		506		732		792
45			17		49		527		733		794
50			18		51		552		766		800
55			18		56		584		818		795
											835

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PAGE 2 OF

CRUISE				AREA				PROJECT				DATE				
16-23-1				G. of Mexico				Cul Tectonics 2				3 DEC. 76				
TIME		TIME		TIME		TIME		TIME		TIME		TIME		TIME		
0000	517	0300		670	0600	645	0900	650	1200	643	1500	652	1800	697	2100	773
05	522			670		645		640		689		654		703		769
10	540			682		645		644		688		655		707		767
15	610			687		644		650		688		656		709		764
20	638			686		641		653		686		658		711		758
25	644			685		640		653		687		661		720		754
0030	647	0330		685	0630	637	0930	659	1230	673	1530	663	1830	722	2130	750
35	646			685		637		660		678		663		727		749
40	605			682		638		663		668		664		737		750
45	643			677		635		667		663		665		746		753
50	443			680		627		670		661		671		745		742
55	646			675		617		669		658		678		747		745
0100	641	0400		675	0700	605	1000	674	1300	655	1600	674	1900	750	2200	740
05	643			670		594		676		656		672		750		736
10	642			672		547		684		655		676		750		718
15	640			670		497		683		656		680		750		697
20	619			668		493		684		656		684		750		700
25	608			665		475		686		654		685		749		698
0130	648	0430		660	0730	463	1030	686	1330	652	1630	685	1930	750	2230	693
35	650			662		480		683		652		688		750		682
40	656			658		513		676		650		695		754		668
45	657			657		550		673		649		696		760		670
50	653			655		600		672		646		695		753		665
55	653			653		610		667		643		693		753		670
0200	656	0500		652	0800	623	1100	666	1400	642	1700	687	2000	760	2300	672
05	657			655		631		665		638		685		758		673
10	651			650		636		667		635		681		757		675
15	662			643		653		669		634		675		759		675
20	665			640		657		667		635		674		761		675
25	675			654		660		670		636		672		760		673
0230	676	0530		644	0830	643	1130	674	1430	640	1730	692	2030	761	2330	672
35	682			642		644		680		641		697		763		671
40	688			640		643		687		645		697		763		668
45	686			640		643		693		647		697		762		668
50	682			644		638		697		650		698		766		665
--	687			645		639		697		650		695		772		

CRUISE				AREA				PROJECT				DATE			
I.D. 23-1				GULF OF MEXICO				GULF TECTONICS II				4 DEC. 76			
TIME		TIME		TIME		TIME		TIME		TIME		TIME		TIME	
0000	668	0300	810	0600	1017	0900	1612	1200	1790	1500	1832	1800	1880	2100	1931
05	668		827		1037		1615		1796	↑	1838		1881		1931
10	670		862		1023		1620		1795	↓	1839		1882		1933
15	674		855		994		1621		1802		1840		1883		1934
20	663		810		1055		1622		1803		1840		1885		1934
25	656		870		1112		1622		1808		1840		1885		1935
0030	645	0330	926	0630	1106	0930	1621	1230	1811	1530	1844	1830	1886	2130	1937
35	628		926		1091		1622		1811		1855		1887		1937
40	647		890	styles			1620		1818		1848		1890		1940
45	680		830	repair			1620		1819		1848		1892		1940
50	660		745				1618		1800		1850		1895		1941
55	640		718				1617		1821		1851		1897		1941
0100	630	0400	118	0700		1000	1615	1300	1824	1600	1853	1900	1897	2200	1942
05	627		735		1080		1612		1822		1860		1900		1944
10	697		730		1130		1590		1822	↓	1865		1903		1945
15	617		732		1180		1572		1822		1863		1904		1945
20	627		746		1235		1540		1822		1860		1905		1946
25	580		840		1250		1546		1823		1857		1907		1946
0130	516	0430	853	0730	1245	1030	1563	1330	1823	1630	1856	1930	1910	2230	1948
35	567		882		1235		1600	↑	1823		1855		1910		1948
40	514		890	~	1200		1638		1824		1857		1910		1949
45	556		923	~	1120		1669		1825		1857		1910		1949
50	528		912	~	1000		1695		1825		1862		1913		1950
55	617		960		911		1715	2	1826		1863		1914		1951
0200	652	0500	905	0800	873	1100	1728	1400	1827	1700	1867	2000	1916	2300	1951
05	715		918		847		1735		1829		1868		1917		1952
10	716		940	~	1000		1738		1828		1879		1918		1952
15	717		932		1120		1741		1830	207	1811		1920		1952
20	720		948		1160		1748		1831		1873		1921		1953
25	732		910		?		1757		1832		1875		1923		1953
0230	743	0530	964	0830		1130	1765	1430	1832	1730	1876	2030	1924	2330	1953
35	750		940		1450		1772		1835		1875		1924		1953
40	761		970		1523		1780		1835		1877		1925		1954
45	805		1000		1563		1782		1835		1878		1927		1954
50	820		975		1585		1784		1837		1879		1928		1954
55	784		992		1601		1788		1837		1880		1929		1954

JD = 335

33

CRUISE		AREA				PROJECT				DATE			
IG 23-1		Gulf of Mexico				Gulf Tectonics II				5 DEC. 76			
TIME		TIME		TIME		TIME		TIME		TIME		TIME	
0000	1955	0300	1962	0600	1966	0900	1944	1200	1960	1500	1967	1800	1989
05	1955		1962		1966		1944		1958		1970		1988
10	1955		1962		1966		1944		1959		1971		1988
15	1956		1963		1965		1943		1959		1973		1988
20	1956		1963		1965		1945		1960		1974		1988
25	1956		1964		1964		1946		1960		1975		1987
0030	1956	0330	1965	0630	1964	0930	1946	1230	1959	1530	1976	1830	1987
35	1957		1965		1963		1946		1959		1977		1988
40	1957		1965		1963		1947		1960		1977		1988
45	1957		1965		1962		1947		1960		1978		1989
50	1956		1965		1962		1947		1962		1979		1989
55	1956		1965		1962		1947		1962		1979		1989
0100	1957	0400	1965	0700	1967	1000	1946	1300	1962	1600	1980	1900	1989
05	1958		1965				1947		1962		1981		1990
10	1959		1965		PAPER		1946		1961		1981		1990
15	1958		1965		CHANGE		1946		1960		1982		1990
20	1959		1965				1946		1960		1983		1988
25	1960		1965				1946		1961		1984		1988
0130	1960	0430	1965	0730	1954	1030	1946	1330	1962	1630	1985	1930	1988
35	1960		1965		1953		1946		1962		1985		1989
40	1960		1965		1949		1946		1963		1985		1990
45	1960		1965		PAPER ADJ		1947		1962		1986		1990
50	1960		1965		+ ADJUST		1948		1962		1986		1990
55	1960		1965				1949		1961		1986		1990
0200	1960	0500	1965	0800	1943	1100	1950	1400	1960	1700	1986	2000	1990
05	1960		1966		1944		1951		1960		1986		1990
10	1960		1966		1943		1950		1960		1986		1991
15	1961		1966		1942		1951		1961		1987		1991
20	1961		1966		1942		1951		1961		1987		1991
25	1962		1966		1942		1951		1962		1987		1991
0230	1962	0530	1966	0830	1942	1130	1952	1430	1962	1730	1988	2030	1990
35	1962		1966		1939		1953		1962		1985		1989
40	1962		1966		1940		1953		1963		1986		1989
45	1962		1966		1942		1953		1965		1986		1989
50	1962		1966		1942		1957		1965		1986		1989
55	1962		1966		1943		1958		1967		1987		1989

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CRUISE		AREA				PROJECT				DATE	
IG 23-1		Gulf of Mexico				Gulf Tectonics II				6 DEC 76	
TIME		TIME		TIME		TIME		TIME		TIME	
0000	1994	0300	1988	0600	1980	0900	1956	1200	1937	1500	1900
05	1995		1988		1980		1956		1937		1900
10	1994		1988	Paper			1956		1937		1901
15	1994		1988	change			1957		1936		1902
20	1994		1987		1973		1957		1936		1903
25	1994		1987		1973		1956		1935		1904
0030	1994	0330	1987	0630	1973	0930	1956	1230	1934	1530	1905
35	1994		1987		1972		1956		1934		1905
40	1994		1987		1971		1955		1933		1905
45	1994		1987		1970		1955		1933		1904
50	1994		1988		1969		1955		1933		1904
55	1994		1988		1967		1953		1933		1903
0100	1994	0400	1988	0700	1966	1000	1953	1300	1932	1600	1903
05	1994		1988		1966		1952		1932		1903
10	1994		1987		1966		1952		1931		1903
15	1994		1987		1967		1952		1930		1902
20	1994		1987		1967		1952		1929		1901
25	1994		1986		1967		1951		1929		1899
0130	1994	0430	1986	0730	1965	1030	1951	1330	1928	1630	1900
35	1994		1986		1965		1950		1927		1900
40	1994		1986		1965		1949		1925		1901
45	1993		1987		1965		1948		1923		1902
50	1993		1987		1965		1947		1922		1904
55	1993		1987		1965		1947		1921		1905
0200	1993	0500	1987	0800	1965	1100	1947	1400	1920	1700	1905
05	1989		1986		1965		1947		1917		1906
10	1989		1985		1964		1947		1917		1907
15	1989		1985		1964		1946		1915		1908
20	1988		1984		1964		1945		1912		1909
25	1989		1983		1963		1944		1910		1911
0230	1990	0530	1983	0830	1962	1130	1943	1430	1911	1730	1912
35	1989		1982		1960		1942		1905		1914
40	1988		1982		1958		1941		1900		1915
45	1987		1981		1958		1940		1899		1916
50	1988		1981		1957		1939		1899		1916
55	1989		1980		1957		1938		1898		1916

CRUISE		AREA		PROJECT		DATE	
IG-23-1		Gulf of Mexico		Gulf Tectonics II		7 DEC, 1976	
TIME		TIME		TIME		TIME	
0000	1972	0300	1972	0600	1967	0900	1966
05	1972		1972		1970		1966
10	1972		1973		1970		1967
15	1972		1973		1970		1967
20	1972		1972		1970		1966
25	1972		1972		1970		1966
0030	1972	0330	1972	0630	1969	0930	1966
35	1972		1972		1969		1963
40	1972		1972		1969		1963
45	1972		1972		1970		1962
50	1972		1972		1968		1963
55	1972		1972		1970		1963
0100	1973	0400	1972	0700	1970	1000	1963
05	1973		1972		1970		1963
10	1973		1972		1970		1963
15	1973		1972		1969		1963
20	1973		1972		1968		1964
25	1973		1972		1968		1964
0130	1973	0430	1971	0730	1967	1030	1964
35	1973		1971		1969		1964
40	1973		1971		1969		1964
45	1974		1971		1969		1963
50	1973		1971		1967		1963
55	1973		1971		1965		1963
0200	1973	0500	1971	0800	1966	1100	1963
05	1974		1971		1967		1962
10	1973		1971		1967		1962
15	1973		1970		1967		1962
20	1973		1970		1967		1962
25	1972		1970		1966		1961
0230	1973	0530	1970	0830	1965	1130	1962
35	1973		1971		1967		1961
40	1973		1971		1967		1961
45	1972		1971		1967		1961
50	1973		1971		1966		1961
55	1973		1971		1965		1961

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CRUISE			AREA			PROJECT			DATE		
IG-23-1			Gulf of Mexico			Gulf Tectonics II			8 DEC. 76		
TIME		TIME		TIME		TIME		TIME		TIME	
0000	124	0300	162	0600	1825	0900	1923	1200	1925	1500	1924
05	124		165		1860		1923		1925		1926
10	124		169		1904		1922		1925		1927
15	126		173		1923		193		1925		1928
20			178		1920		193		1925		1929
25	126		183		1920		194		1925		1930
0030	126	0330	190	0630	1919	0930	1929	1230	1925	1530	1932
35	127		195		1920		1923		1925		1932
40	128		205		1918		1929		1925		1933
45	127		222		1918		1929		1923		1933
50	128		243		1919		1925		1925		1934
55	128		268		1918		1925		1925		1934
0100	129	0400	295	0700	1920	1000	1925	1300	1924	1600	1934
05	129		352		1920		1925		1924		1935
10	129		400		1920		1925		1924		1935
15	130		443		1920		1925		1925		1936
20	130		480		1920		1925		1922		1937
25	132		520		1922		1925		1924		1938
0130	133	0430	560	0730	1920	1030	1925	1330	1925	1630	1938
35	132		600		1920		1925		1924		1938
40	133		7		1920		1925		1923		1939
45	134		9		1920		1925		1923		1940
50	135				1921		1925		1924		1938
55	136				1921		1925		1924		1936
0200	138	0500		0800	1921	1100	1925	1400	1924	1700	1935
05	139				1922		1924		1924		1930
10	140				1922		1925		1924		1930
15	141				1922		1925		1924		1931
20	142				1922		1924		1924		1933
25	145				1922		1924		1924		1933
0230	146	0530		0830	1922	1130	1925	1430	1924	1730	1935
35	148				1921		1925		1924		1936
40	150				1922		1925		1924		1936
45	153				1922		1925		1924		1937
50	155				1922		1925		1924		1937
55	158						1925		1924		1937

JD = 344

CRUISE			AREA			PROJECT			DATE		
IG-23 -1			GULF OF MEXICO			GULF TECTONICS II			9 DEC, 76		
TIME		TIME		TIME		TIME		TIME		TIME	
0000	1927	0300	1912	0600	1878	0900	1889	1200	1893	1500	1914
05	1928		1910		1879		1887		1895		1918
10	1924		1910		1880		1884		1897		1919
15	1920		1909		1880		1884		1895		1919
20	1917		1909		1880		1883		1896		1919
25	1915		1905		1880		1883		1898		1920
0030	1908	0330	1905	0630	1880	0930	1883	1230	1902	1530	1920
35	1907		1903		1880		1882		1903		1922
40	1921		1903		1880		1882		1903		1923
45	1921		1902		1880		1882		1903		1924
50	1922		1899		1881		1882		1902		1925
55	1923		1895		1881		1882		1902		1925
0100	1922	0400	1892	0700	1881	1000	1880	1300	1900	1600	1925
05	1930		1890		1881		1880		1898		1926
10	1929		1888		1882		1880		1897		1926
15	1929		1886		1883		1880		1897		1926
20	1928		1885		1884		1880		1902		1926
25	1929		1886		1884		1880		1904		1927
0130	1930	0430	1886	0730	1886	1030	1886	1330	1904	1630	1927
35	1930		1884		1886		1882		1903		1927
40	1930		1884		1886		1883		1903		1927
45	1929		1883		1887		1884		1903		1926
50	1929		1882		1887		1884		1903		1925
55	1929		1881		1887		1885		1904		1924
0200	1928	0500	1880	0800	1886	1100	1886	1400	1904	1700	1922
05	1928		1880		1887		1886		1903		1918
10	1928		1879		1887		1887		1902		1916
15	1928		1878		1886		1888		1901		1914
20	1928		1877		1886		1889		1901		1910
25	1928		1877		1886		1890		1902		1907
0230	1928	0530	1877	0830	1885	1130	1891	1430	1903	1730	1905
35	1925		1876		1885		1891		1903		1905
40	1920		1876		1884		1892		1904		1903
45	1918		1877		1884		1892		1906		1902
50	1915		1877		1884		1894		1908		1901
55	1913		1877		1884		1895		1912		1900

CRUISE IG 23		AREA GULF OF MEXICO				PROJECT GULF TECTONICS II				DATE 16 DEC, 76					
TIME		TIME		TIME		TIME		TIME		TIME		TIME			
0000	1844	0300	1822	0600	1803	0900	1735	1200	1127	1500	1024	1800	965	2100	930
05	1844		1822		1803		1744		1114		1023		987		925
10	1845		1822		1802		1740		1090		1018		1037		924
15	1844		1821		1801	coming up	1685		1103		1013		1118		925
20	1841		1821		1800	sigbee	1640		1090		1008		1128		933
25	1841		1820		1798	Scarp	1595		1094		1010		1132		935
0030	1841	0330	1820	0630	1797	0930	1560	1230	1086	1530	1005	1830	1132	2130	922
35	1841		1819		1797		1530		1080		1003		1121		904
40	1840		1819		1795		1515		1077		1001		1118		906
45	1840		1818		1794		1458		1080		984		1094		915
50	1846		1818		1792		1408		1086		988		1060		927
55	1846		1817		1788		1360		1099		995		995		933
0100	1839	0400	1817	0700	1787	1000	1325	1300	1092	1600	992	1900	936	2200	935
05	1838		1816		1785		1293		1097		977		940		935
10	1837		1816		1784		1262		1099		985		1008		923
15	1837		1815		1780		1238		1096		991		973		917
20	1837		1815		1780		1209		1083		988		1005		913
25	1836		1814		1773		1202		1098		991		1090		918
0130	1836	0430	1814	0730	1771	1030	1204	1330	1062	1630	989	1930	1130	2230	918
35	1834		1814		1767		1195		1083		990		1126		922
40	1833		1814		1760		1191		1074		996		1095		930
45	1832		1813		1756		1185		1055		997		1070		946
50	1832		1813		1755		1181		1092		981		1048		966
55	1832		1813		1750		1181		1099		991		1030		993
0200	1830	0500	1813	0800	1751	1100	1181	1400	1082	1700	965	2000	1020	2300	1011
05	1828				1749		1162		1085		962		1035		1027
10	1828				1745		1157		1089		967		1017		1043
15	1828				1740		1158		1094		970		1005		1056
20	1828				1738		1148		1097		970		980		1076
25	1828				1736		1137		1090		962		965		1080
0230	1827	0530		0830	1735	1130	1119	1430	1057	1730	982	2030	957	2330	1082
35	1826				1737		1110		1033		983		955		1085
40	1825				1740		1097		1025		990		949		1087
45	1825				1740		1104		1027		951		951		1086
50	1824		1804		1737		1116		1032		951		935		1067
55	1823		1806		1736		1120		1030		936		930		1020

JD=345

IG2301 B10

CRUISE		AREA				PROJECT				DATE					
16 23		GULF OF MEXICO				GULF TECTONICS II				11 DEC 76					
TIME		TIME		TIME		TIME		TIME		TIME					
0000	783	0300	910	0600	935	0900	1190	1200	740	1500	680	1800	542	2100	580
05	932		912		938		1197		743		677		555		575
10	920		915		933		1201		823		690		562		560
15	922		916		935		1202		823		650		547		540
20	924		920		765		1207		876		628		549		515
25	920		920		787		1208		904		685		553		516
0030	918	0330	920	0630	1003	0930	1208	1230	917	1530	550	1830	546	2130	521
35	919		920		1035		1187		925		645		557		527
40	920	40	922		1055		1147		928		615		563		529
45	923		922		1072		1099		927		605		523		531
50	919	50	923		1070		1070		927		600		557		533
55	915		925		1070		1038		923		600		555		546
0100	917	0400	925	0700	1050	1000	1006	1300	918	1600	620	1900	578	2200	560
05	917		927		1035		1000		903		625		564		582
10	913		925		1033		978		838		700		567		591
15	916		925		1010		977		736		717	Remapped	575		610
20	921		923		782		953		703		721	paper	583		622
25	921		926		780		914		697		722		595		624
0130	921	0430	926	0730	965	1030	876	1330	702	1630	723	1930	597	2230	611
35	918		926		936		872		702		722		578		593
40	915		926		939		876		676		721		594		588
45	915		926		030		875		672		719		591		584
50	916		926		925		861		665		717		592		573
55	915		926		924		816		662		715		591		565
0200	913	0500	926	0800	1020	1100	848	1400	665	1700	714	2000	571	2300	557
05	910		929		1060		831		675		710		592		554
10	911		929		1069		830		705		705		577		548
15	911		932		1080		829		685		699		602		551
20	910		931		1090		797		718		692		602		552
25	906		932		1103		785		758		681		600		567
0230	905	0530	931	0830	1115	1130	757	1430	761	1730	665	2030	598	2330	578
35	905		930		1123		731		731		630		595		581
40	905		930		1135		747		735		624		592		590
45	905		932		1143		743		718		625		581		600
50	905		933		1162		739		688		602		582		607
55	916		935		1176		737		680		573		572		611

JD=346

IG2301.B11

Depth

LOG

PAGE 11

OF

50 = 347

CRUISE			AREA				PROJECT				DATE				
IG-23			Gulf of Mexico				Gulf Tectonics II				12 DEC. 1976				
TIME		TIME		TIME		TIME		TIME		TIME		TIME		TIME	
0000	602	0300	1087	0600	11258	0900	1477	1200	1590	1500	1650	1800	1692	2100	1758
05	602	✓	1096	✓	11267	✓	1483	✓	1592	✓	1653	✓	1695	✓	1760
10	601	✓	1102	✓	11277	✓	1488	✓	1594	✓	1656	PAPER	✓	✓	1762
15	607	✓	1107	✓	11283	✓	1493	✓	1597	✓	1659	CHANGE	✓	✓	1764
20	615	✓	1110	✓	11293	✓	1498	✓	1599	✓	1661	✓	1698	✓	1767
25	620	✓	1114	✓	11306	✓	1502	✓	1600	✓	1660	✓	1700	✓	1768
0030	627	0330	1120	0630	11318	0930	1509	1230	1530	✓	1661	1830	1703	2130	1772
35	634	✓	1124	✓	11325	✓	1515	✓	✓	✓	1658	✓	1704	✓	1773
40	640	✓	1127	✓	11329	✓	1521	✓	✓	✓	1655	✓	1705	✓	1776
45	647	✓	1134	✓	11340	✓	1527	✓	✓	✓	1658	✓	1707	✓	1778
50	653	✓	1135	✓	11346	✓	1530	✓	✓	✓	1660	✓	1708	✓	1778
55	659	✓	1136	✓	11330	✓	1536	✓	✓	✓	1660	✓	1710	✓	1780
0100	661	0400	1135	0700	11359	1000	1541	1300	1600	✓	1662	1900	1712	2200	1782
05	663	✓	1133	✓	11362	✓	1545	✓	✓	✓	1664	✓	1714	✓	1785
10	664	✓	1137	✓	11370	✓	1548	✓	✓	✓	1665	✓	1715	✓	1784
15	665	✓	1140	✓	11375	✓	1553	✓	✓	✓	1666	✓	1716	✓	1785
20	668	✓	1142	✓	11379	✓	1556	✓	✓	✓	1667	✓	1719	✓	1785
25	672	✓	1148	✓	11381	✓	1560	✓	✓	✓	1667	✓	1722	✓	1786
0130	671	0430	1160	0730	11384	1030	1562	1330	1630	✓	1670	1930	1723	2230	1787
35	678	✓	1185	✓	11387	✓	1564	✓	✓	✓	1675	✓	1725	✓	1788
40	685	✓	1190	✓	11390	✓	1566	✓	✓	✓	1677	✓	1726	✓	1791
45	691	✓	1197	✓	11392	✓	1567	✓	✓	✓	1678	✓	1727	✓	1792
50	693	✓	1200	✓	11400	✓	1567	✓	✓	✓	1678	✓	1732	✓	1793
55	698	✓	1210	✓	11407	✓	1567	✓	1616	✓	1678	✓	1733	✓	1794
0200	698	0500	1220	0800	11417	1100	1568	1400	1617	1700	1680	2000	1737	2300	1795
05	702	✓	1223	✓	11426	✓	1569	✓	1620	✓	1682	✓	1737	✓	1796
10	708	✓	1225	✓	11428	✓	1570	✓	1623	✓	1684	✓	1741	✓	1798
15	717	✓	1238	✓	11430	✓	1573	✓	1626	✓	1686	✓	1742	✓	1800
20	730	✓	1247	✓	11437	✓	1575	✓	1631	✓	1688	✓	1745	✓	1803
25	760	✓	1252	✓	11445	✓	1576	✓	1633	✓	1692	✓	1747	✓	1805
0230	830	0530	1260	0830	11450	1130	1578	1430	1635	1730	1695	2030	1749	2330	1807
35	915	✓	1270	✓	11456	✓	1579	✓	1637	✓	1692	✓	1752	✓	1809
40	1015	✓	1275	✓	11458	✓	1581	✓	1640	✓	1692	✓	1753	✓	1810
45	1042	✓	1273	✓	11460	✓	1582	✓	1642	✓	1692	✓	1754	✓	1812
50	1068	✓	1261	✓	11463	✓	1586	✓	1645	✓	1692	✓	1756	✓	1812
55	1077	✓	1249	✓	11470	✓	1588	✓	1648	✓	1692	✓	1757	✓	1813

B12

00002 1815

JD=348

LOG

PAGE 12

OF

CRUISE		AREA		PROJECT		DATE	
IG 23		Gulf of Mexico		Gulf Tectonics II		13 DEC, 76	
TIME		TIME		TIME		TIME	
0000	1815	0300	1830	0600	1852	0900	1851
05	1818		1845		1858		1850
10	1819		1847		1857		1850
15	1821		1847		1857		1850
20	1822		1850		1857		1850
25	1823		1850		1857		1851
0030	1824	0330	1854	0630	1856	0930	1851
35	1825		1860		1856		1848
40	1825		1860		1856		1847
45	1823		1860		1855		1847
50	1827		1860		1856		1848
55	1826		1862		1856		1848
0100	1826	0400	1862	0700	1853	1000	1849
05	1824		1863		1856		1848
10	1824		1863		1856		1848
15	1826		1862		1855		1848
20	1825		1862		1854		1848
25	1824		1863		1853		1848
0130	1825	0430	1863	0730	1852	1030	1847
35	1832		1863		1852		1846
40	1830		1863		1852		1846
45	1836		1862		1852		1846
50	1835		1862		1852		1845
55	1838		1862		1851		1845
0200	1834	0500	1862	0800	1851	1100	1844
05	1838		1862		1853		1844
10	1839		1861		1852		1844
15	1839		1861		1852		1844
20	1843		1861		1852		1844
25	1840		1860		1851		1844
0230	1840	0530	1860	0830	1850	1130	1844
35	1840		1860		1850		1845
40	1843		1860		1850		1844
45	1843		1859		1850		1844
50	1843		1859		1851		1843
55	1843		1858		1851		1843

B13

JD=349

CRUISE		AREA				PROJECT				DATE					
IG-23		Gulf of Mexico				Gulf Tectonics II				14 DEC. 76					
TIME		TIME		TIME		TIME		TIME		TIME					
0000	1863	0300	1862	0600	1863	0900	1852	1200	1658	1500	1834	1800	1826	2100	1117
05	1863		1862		1863		1851		1691		1833		1826		1114
10	1864		1861		63		1850		1727		1833		1825		1090
15	1864		4		Change		1863		1780		1823		1826		1078
20	1865		5				1862		1747		1833		1824		1061
25	1864		27				1861		1814		1832		1826		1041
0030	1864	0330	5	0630	1860	0930	1852	1230	1838	1530	1832	1830	1826	2130	1034
35	1862		5		1860		1851		1860		1831		1826		1033
40	1862		5		1859		1851		1837		1831		1826		1029
45	1863		2		1859		1850		1839		1830		1827		1019
50	1864		1860		1859		1850		1840		1830		1827		1012
55	1864		1840		1859		1850		1840		1830		1827		997
0100	1864	0400	1860	0700	1859	1000	1847	1300	1842	1600	1850	1900	1827	2200	967
05	1864		1862		1858		1822		1839		1829		1827		972
10	1864		1862		1858		1850		1837		1829		1827		967
15	1864		1862		1858		1847		1837		1829		1827		965
20	1865		1842		1859		1847		1837		1828		1827		914
25	1865		1841		1858		1845		1837		1829		1828		964
0130	1864	0430	1861	0730	1857	1030	1837	1330	1837	1630	1830	1930	1831	2230	971
35	1863		1861		1857		1838		1836		1832		1831		988
40	1865		1861		1857		1836		1838		1833		1833		1011
45	1864		1861		1855		1832		1838		1833		1832		1056
50	1863		1862		1855		1832		1839		1835		1832		1057
55	1863		1862		1855		1834		1839		1834		1830		1088
0200	1863	0500	1862	0800	1855	1100	1754	1400	1839	1700	1833	2000	1787	2300	1090
05	1861		1862		1855		1741		1838		1832		1737		1147
10	1861		1863		1855		1740		1836		1830				1149
15	1861		1864		1855		1749		1837		1829				1174
20	1862		1864		1854		1752		1837		1829		1660		1215
25	1862		1865		1854		1706		1836		1830		1630		1203
0230	1862	0530	1865	0830	1853	1130	1688	1430	1835	1730	1830	2030		2330	1211
35	1862		1865		1853		1688		1833		1830		1200		1211
40	1864		1865		1853		1685		1833		1830		1165		1238
45	1865		1865		1853		1690		1833		1828		1146		1282
50	1864		1864		1852		1682		1832		1827		1142		1309
55	1862		1864		1852		1672		1834		1827		1128		1338

314

CRUISE		AREA				PROJECT				DATE			
IG 23		Gulf of Mexico				Gulf Tectonics II				15 DEC, 76			
TIME		TIME		TIME		TIME		TIME		TIME		TIME	
0000	1849	0300	1845	0600	1848	0900	1840	1200	1840	1500	1841	1800	1843
05			1845		1848		1839		1840		1841		1841
10			1845		1848		1839		1840		1840		1843
15			1845		1848		1838		1841		1842		1846
20			1847		1848		1838		1842		1841		1848
25			1847		1848		1837		1842		1840		1842
0030	1847	0330	1845	0630	1848	0930	1837	1230	1842	1530	1840	1830	1840
35	1848		1845		1848		1838		1842		1839		1840
40	1848		1845		1848		1838		1842		1838	40	1299
45	1846		1845		1849		1838		1842		1837		1290
50	1848		1845		1850		1838		1843		1837	50	1250
55	1847		1846		1850		1837		1844		1837		1233
0100	1847	0400	1846	0700	1851	1000	1837	1300	1844	1600	1837	1900	1233
05	1847		1845		1852		1836		1844		1840		1220
10	1848		1842		1849		1835		1843		1837		1221
15	1849		1842		1849		1835		1843		1838		1223
20	1850		1842		1849		1834		1843		1838		1212
25	1850		1842		1849		1834		1844		1837		1200
0130		0430	1843	0730	1849	1030	1833	1330	1844	1630	1838	1930	1191
35			1845		1849		1832		1843		1840		1182
40			1846		1848		1831		1842		1840		1167
45			1849		1849		1830		1843		1838		1155
50	1848		1841		1847		1830		1843		1839		1147
55	1847		1847		1847		1831		1843		1841		1136
0200	1846	0500	1847	0800	1846	1100	1831	1400	1843	1700	1842	2000	1130
05	1847		1847		1845		1833		1842		1841		1118
10	1847		1848		1844		1833		1843		1841		1109
15	1846		1848		1843		1834		1843		1840		1104
20	1845		1847		1843		1835		1843		1840		1103
25	1846		1847		1842		1837		1843		1841		1096
0230	1845	0530	1847	0830	1841	1130	1838	1430	1843	1730	1842	2030	1104
35	1847		1847		1840		1839		1842		1841		1100
40	1849		1848		1840		1839		1841		1840		1093
45	1849		1848		1840		1840		1841		1841		1055
50	1848		1848		1840		1840		1840		1842		1056
55	1849		1848		1840		1840		1841		1845		1049

JD-350

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GENERATOR
OUT, 3.5
NOT WORKING.

CRUISE			AREA				PROJECT				DATE				
IG 23			Gulf of Mexico				Gulf Tectonics II				16 DEC 76				
TIME		TIME		TIME		TIME		TIME		TIME		TIME		TIME	
0000	1862	0300	1853	0600	1855	0900	1854	1200	1860	1500	1863	1800	1865	2100	1868
05	1860		1853		1857		1854		1860		1863		1863		1869
10	1875		1854		1857		1854	10	1860		1863		1864		1871
15	1852		1854		1855		1854		1860		1865		1864		1872
20	1847		1854	20	1853		1853	20	1860		1864		1864		1871
25	1835		1854		1852		1853		1860		1865		1864		1870
0030	1823	0330	1853	0630	1852	0930	1853	1230	1860	1530	1866	1830	1865	2130	1870
35	1842		1853		1854		1852		1860		1866		1865		1871
40	1857		1854		1853		1853		1860		1866		1865		1870
45	1879		1854		1853		1852		1859		1865		1865		1872
50	1891		1855		1853		1852		1860		1866		1865		1872
55	1825		1855		1854		1851		1861		1866		1865		1872
0100	1872	0400	1855	0700	1854	1000	1850	1300	1861	1600	1867	1900	1865	2200	1873
05	1890		1855		1853		1849		1861		1867		1865		1874
10	1874		1854		1853		1850		1861		1867		1865		1875
15	1860		1855		1854		1851		1861		1867		1865		1875
20	1889		1855		1855		1852		1861		1867		1863		1878
25	1878		1855		1854		1852		1861		1867		1863		1878
0130	1898	0430	1856	0730	1854	1030	1853	1330	1861	1630	1867	1930	1863	2230	1877
35	1868		1855		1859		1854		1861		1867		1862		1876
40	1890		1855		1855		1855		1862		1867				1877
45	1898		1855		1856		1856		1863		1867				1878
50	1892		1855		1855		1857		1863		1867				1877
55	1820		1855		1854		1857		1863		1867				1876
0200	1870	0500	1856	0800	1854	1100	1857	1400	1862	1700	1867	2000	1865	2300	1878
05	1852		1855		1855		1857		1861		1867				1879
10	1832		1855		1857		1857		1862		1868		1822		1879
15	1848		1855		1857		1858		1863		1868		1830		1879
20	1885		1855		1857		1858		1863		1867		1837		1874
25	1810		1855		1857		1858		1863		1867				1873
0230	1845	0530	1855	0830	1857	1130	1860	1430	1863	1730	1867	2030	1867	2330	1780
35			1855		1856		1860		1863		1868				1666
40			1854		1855		1860		1863		1868				1548
45			1855		1855		1861		1862		1867				1715
50			1855		1855		1861		1863		1867		1867		1484
55			1855		1854		1860		1863		1865		1867		1462

JD-351

.B16

CRUISE		AREA		PROJECT		DATE									
IG 23		Gulf of Mexico		Gulf Tectonics II		DEC 17 1976									
TIME		TIME		TIME		TIME									
0000	1375	0300	343	0600	718	0900	221	1200	704	1500	1200	1800	1833	2100	1833
05	1353		343		219		222		717		1220		1833		1832
10			323		219		222		721		1240		1833		1831
15	1286		300		219		723		705		1252		1833		1829
20	1268		278		219		224		723		1265		1834		1828
25	1250		271		219		225		755		1282		1836		1826
0030		0330	265	0630	219	0930	226	1230	745	1530	1295	1830	1837	2130	1824
35			250		219		227		724		1332		1837		1823
40			246		219		228		852		1345		1838		1821
45			244		219		229		870		1350		1838		1820
50	1048		244		219		232		890		1320		1838		1818
55	1048		241		219		235		907		1430		1837		1816
0100	985	0400	241	0700	219	1000	239	1300	933	1600	1490	1900	1837	2200	1815
05			243		219		275		960		1594		1839		1812
10			248		219		282		970		1590		1839		1810
15			205		219		270		977		1615		1838		1808
20	747		233		219		277		989		1730		1837		1806
25	718		231		219				1005		1710		1837		1803
0130	677	0430	228	0730	219	1030	442	1330	1018	1630	1826	1930	1837	2230	1812
35	615		226		219		468		1033		1826		1838		1799
40	558		223		219		471		1040		1827		1837		1798
45	473		222		219		520		1060		1828		1838		1796
50	447		221		219		544		1067		1831		1838		1793
55			220		219		562		1082		1830		1838		1791
0200	470	0500	220	0800	219	1100	603	1400	1083	1700	1830	2000	1837	2300	1789
05	485		219		220		620		1090		1832	Changing			1787
10	510		218		220		628		1072		1832	The			1785
15	525		218		220		652		1094		1832	Paper			1783
20	540		218		220		670		1113		1832		1837		1782
25	500		218		220		691		1118		1830		1837		1780
0230	480	0530	218	0830	220	1130	707	1430	1128	1730	1832	2030	1837	2330	1778
35	400		218		220		723		1135		1835		1835		1775
40	380		218		220		732		1160		1834		1835		1773
45	372		218		221		740		1170		1835		1835		1771
50	369		218		221		690		1173		1834		1834		1769
55	362		218		221		700		1190		1834		1834		1767

B17

CRUISE		AREA				PROJECT						DATE			
IG 23		Gulf of Mexico				GULF TECTONICS II						18 DEC. 76			
TIME		TIME		TIME		TIME		TIME		TIME		TIME			
0000	1765	0300	1682	0600	1600	0900	1504	1200	1404	1500	1356	1800	1370	2100	1377
05	1763		1678		1598		1506		1402		1356		1368		1374
10	1762		1676		1595		1493		1402		1362		1371		1377
15	1759		1672		1592		1490		1398		1365		1374		1379
20	1757		1670		1589		1495		1397		1370		1380		1367
25	1755		1667		1587		1486		1397		1367		1382		1371
0030	1752	0330	1664	0630	1585	0930	1485	1230	1397	1530	1365	1830	1383	2130	1373
35	1752		1662		1580		1483		1395		1358		1386		1375
40	1750		1659		1577		1489		1394		1357		1386		1372
45	1747		1656		1573		1478		1392		1359		1384		1365
50	1744		1655		1573		1478		1391		1361		1382		1357
55	1742		1653		1576		1478		1387		1365		1381		1349
0100	1740	0400	1653	0700	1568	1000	1477	1300	1387	1600	1370	1900	1374	2200	1344
05	1738		1653		1565		1475		1383		1367		1368		1343
10	1736		1650		1565		1470		1380		1359		1370		1350
15	1733		1648		1564		1465		1377		1360		1371		1355
20	1730		1645		1560		1461		1375		1362		1371		1358
25	1728		1643		1555		1457		1372		1362		1369		1356
0130	1726	0430	1642	0730	1553	1030	1456	1330	1370	1630	1362	1930	1372	2230	1356
35	1724		1640		1551		1454		1369		1359		1376		1352
40	1722		1638		1549		1453		1369		1357		1370		1345
45	1720		1636		1545		1449		1367		1355		1376		1337
50	1718		1633		1542		1447		1364		1355		1384		1330
55	1717		1631		1538		1444		1362		1356		1386		1322
0200	1714	0500	1627	0800	1535	1100	1440	1400	1362	1700	1354	2000	1395	2300	1316
05	1710		1626		1532		1438		1360		1360		1369		1310
10	1709		1625		1530		1435		1359		1361		1375		1305
15	1706		1622		1526		1433		1359		1360		1372		1303
20	1705		1620		1522		1429		1359		1358		1370		1302
25	1702		1618		1519		1423		1358		1356		1372		1300
0230	1700	0530	1615	0830	1517	1130	1418	1430	1356	1730	1356	2030	1375	2330	1298
35	1697		1614		1513		1416		1355		1358		1379		1300
40	1693		1610		1511		1413		1355		1363		1383		1300
45	1690		1608		1511		1409		1355		1362		1379		1296
50	1690		1603		1510		1408		1354		1370		1379		1287
55	1685		1600		1507		1405		1355		1370		1378		1286

B18.

CRUISE IG-23				AREA Gulf of Mexico				PROJECT Gulf Tectonics II				DATE 19 DEC, 1976			
TIME		TIME		TIME		TIME		TIME		TIME		TIME		TIME	
0000	1282	0300	1161	0600	930	0900	620	1200	343	1500	244	1800	180	2100	47
05	1280		1158		918		609		340		221		164		47
10	1275		1157		908		601		335		233		156		47
15	1272		1155		899		591		338		230		170		47
20	1271		1153		892		584		337		228		169		47
25	1268		1152		888		571		346		217		161		45
0030	1263	0330	1154	0630	883	0930	577	1230	355	1530	230	1830	160	2130	48
35	1260		1150		881		582		363		203		150		47
40	1259		1144		877		581		368		185		148		47
45	1257		1138		869		577		369		189		148		47
50	1255		1134		862		575		370		185		155		47
55	1253		1128		850		571		366		161		158		48
0100	1250	0400	1124	0700	823	1000	571	1300	362	1600	145	1900	150	2200	48
05	1248		1113		785		566		359		131		140		47
10	1243		1104		762		551		337		138		127		47
15	1237		1095		753		544		302		135		90		48
20	1233		1089		733		533		297		135		70		49
25	1227		1085		716		515		292		156		100		49
0130	1222	0430	1086	0730	709	1030	488	1330	288	1630	162	1930	75	2230	50
35	1216		1081		703		483		289		160		65		50
40	1212		1077		700		480		288		172		53		50
45	1208		1072		698		471		293		192		48		56
50	1206		1066		694		465		296		190		48		50
55	1206		1060		692		445		297		205		48		50
0200	1206	0500	1058	0800	672	1100	422	1400	297	1700	165	2000	48	2300	51
05	1195		1048		672		416		293		233		48		50
10	1183		1042		673		415		287		245		48		49
15	1190		1035		671		410		270		247		48		49
20	1187		1024		669		400		270		249		48		49
25	1185		1020		687		380		272		250		48		49
0230	1183	0530	1007	0830	680	1130	375	1430	265	1730	246	2030	47	2330	49
35	1177		993		671		372		250		229		47		49
40	1172		988		664		368		248		197		47		51
45	1166		978		653		361		243		124		47		51
50	1164		964		645		358		246		158		47		51
55	1162		948		632		356		262		185		47		50

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CRUISE			AREA			PROJECT			DATE		
IG 23			Gulf of Mexico			Gulf Tectonics II			20 DEC 76		
TIME		TIME		TIME		TIME		TIME		TIME	
0000		0300		0600		0900		1200		1500	
05	51		65		16		43		16		8
10	51		64		16		43		16		8
15	52		62		16		43		15		8
20	52		60		20		42		14		8
25	53		59		24		42		13		8
0030	53	0330	59	0630	26	0930	42	1230	12	1530	8
35	54		57		27		42		11		8
40	56		55		31		42		10		8
45	57		53		33		41		10		8
50	58		51		34		40		10		8
55	58		50		36		38		9		8
0100	60	0400	48	0700	36	1000	---	1300	9	1600	8
05	61		47		36	change pattern	---		10		9
10	62		45		36	---	---		10		9
15	62		43		38		29		10	10	10
20	63		42		38		28		10	10	10
25	65		38		36		27		10	10	10
0130	66	0430	34	0730	37	1030	26	1330	9	1630	10
35	68		34		36		25		9	11	11
40	70		30		40		25		9	11	11
45	72		27		40		24		9	12	12
50	73		23		42		24		9	12	12
55	76		22		43		24		9	12	12
0200	77	0500	27	0800	45	1100	23	1400	9	1700	13
05	78		25		50		23		8	12	12
10	80		24		52		23		8	13	13
15	82		24		52		22		8	13	13
20	82		25		52		22		8	13	13
25	81		24		52		21		8	13	13
0230	82	0530	23	0830	51	1130	20	1430	8	1730	13
35	82		23		50		19		8	14	14
40	82		22		49		19		8	15	15
45	79		21		48		18		8	15	15
50	76		20		47		17		8	15	15
55	72		17		46		16		8	15	15

B20

CRUISE			AREA			PROJECT			DATE		
IG 23			Gulf of Mexico			Gulf Tectonics II			21 DEC 76		
TIME		TIME		TIME		TIME		TIME		TIME	
0000		18 0300		15 0600		12 0900		10 1200		8 1500	
05		18		15		12		10		8	
10		18		15		12		10		7	
15		18		15		12		10		7	
20		18		15		12		10		7	
25		18		15		12		10		7	
0030		18 0330		15 0630		12 0930		10 1230		8 1530	
35		17		15		12		9		7	
40		17		14		12		9		7	
45		17		13		12		9		7	
50		17		13		12		9		8	
55		17		13		12		8		7	
0100		17 0400		14 0700		12 1000		9 1300		7 1600	
05		17		13		12		9		7	
10		17		13		12		9		7	
15		17		13		12		9		7	
20		17		13		12		9		7	
25		17		12		12		9		7	
0130		17 0430		12 0730		12 1030		9 1330		7 1630	
35		16		12		12		8		7	
40		16		12		12		8		7	
45		16		12		12		8		7	
50		16		12		12		8		7	
55		16		12		12		8		7	
0200		16 0500		12 0800		12 1100		8 1400		7 1700	
05		16		12		12		8			
10		16		12		12		8			
15		16		12		12		8			
20		16		12		12		8			
25		16		12		12		8			
0230		16 0530		12 0830		12 1130		8 1430		7 1730	
35		15		12		11		8			
40		15		12		11		8			
45		15		12		11		8			
50		15		12		10		8			
55		15		12		10		8			

SECURED
END IG 23-1
ARRIVE GALVESTON

SECURED
END IG 23-1
ARRIVE
GALVESTON

B21