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Key to Geophysical Records Documentation No. 1

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
Environmental Data Service

Marine Geophysical Data Catalog

National
Geophysical and
Solar-Terrestrial
Data Center

BOULDER, COLORADO

June 1972

ADDITIONS AND REVISIONS LOG SHEET

[illegible]



U.S. DEPARTMENT OF COMMERCE

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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KEY TO GEOPHYSICAL RECORDS DOCUMENTATION NO. 1

Marine Geophysical Data Catalog

National Geophysical and Solar-Terrestrial Data Center

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ABSTRACT. This catalog lists marine geophysical data that are available from the National Geophysical and Solar-Terrestrial Data Center, Environmental Data Service, U.S. Department of Commerce, Boulder, Colo. 80302. It includes bathymetric, magnetic, gravity, and seismic data, indicates types of records and data formats, identifies specific projects, cruises, or surveys, and depicts geographic distribution of the data by area index charts. A geographic key to area index charts is provided.

UDC 551.46.062.2:551.462.550.3(26)(083.8)

550.3	Geophysical observations and data
551.46	Oceanography and hydrography
.062	Oceanographic surveys
.2	Depth surveys
.462	Bathymetric observations
(26)	Oceans and seas
(083.8)	Catalogs and inventories

MARINE GEOPHYSICAL DATA CATALOG

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SECTION I

During the preparation of this catalog, NOAA's data activities in the fields of seismology, geomagnetism, marine geophysics and geology, solar activity, the ionosphere, cosmic rays, interplanetary phenomena, aurorae and airglow were consolidated in a single data center--the newly formed National Geophysical and Solar-Terrestrial Data Center (NGSDC) headquartered in Boulder, Colorado. This catalog reflects the former National Geophysical Data Center (NGDC) file numbers and designations on all pages dated through June 1972. Future revisions and updates will show the new NGSDC file numbers.

One of the NGSDC's responsibilities is providing data services to the marine geophysical data user community. The data holdings of the NGSDC reflect all potential origins, both foreign and domestic, and include data from federal and state agencies, universities, institutions, marine laboratories and other research centers.

The NGSDC provides data in a variety of formats. Original records, pertinent documentation and related information are filmed on 35 mm flow and planetary camera systems and are made available as microfilm copies. Computer processed data are placed on magnetic tapes and are available in several formats as well as in computer products such as printouts, punched cards, data lists and plots. Computer processed data products are also available in microfilm format. All data are made available to interested users at the cost of reproduction or on an exchange basis.

This catalog has been designed to permit a quick and comprehensive review of marine geophysical data currently available from the NGSDC. General area data coverage can be ascertained by reviewing the area index charts given in Section II. NGDC file numbers designate each trackline or survey area and information concerning the project title, data origin and the available data parameters can then be obtained by consulting the File Number Identification List in Section III. More specific information describing data format is given for each NGDC File No. in Section IV along with a sketch of the project area.

The Microfilm Reel Index in Section V identifies the reel or reels on which certain data parameters are contained. A similar listing identifying data parameters on magnetic tape is given in Section VI.

Revisions and updates will occur on a frequent but unscheduled basis. Notification of new data acquisitions will consist of appropriate inserts to be added to or exchanged for existing pages. An Additions and Revisions Log Sheet is included to assist the user in recording additional data acquisitions or revisions so as to maintain the catalog on an up-to-date basis.

SECTION II
AREA INDEX CHARTS

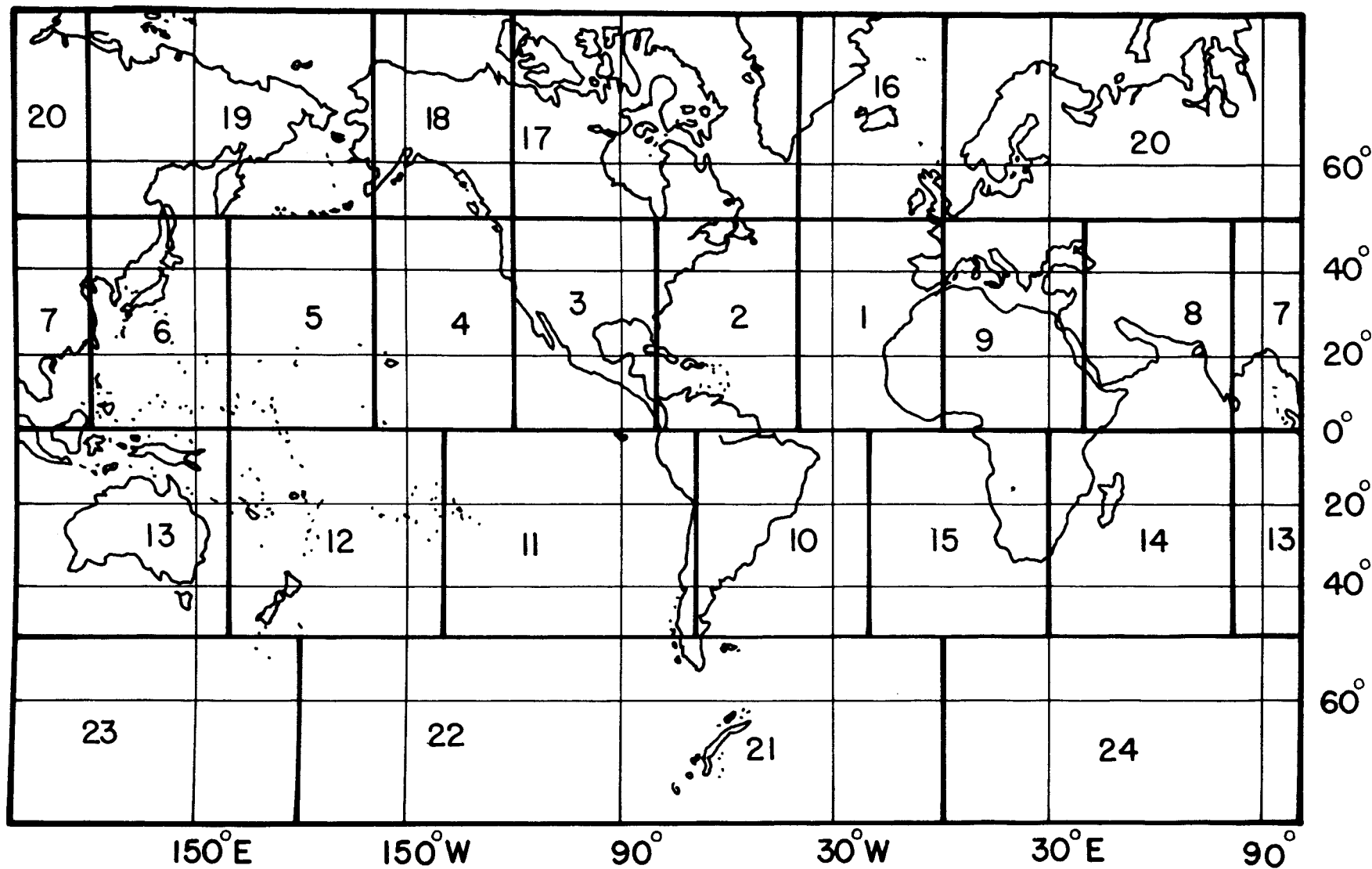
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DESCRIPTION OF AREA INDEX CHARTS

Area index charts in this section depict geographic coverage of marine geophysical data in NGDC archives by ship tracklines and survey limits and identify each project (cruise or survey) by its NGDC file number. Detailed information on each project is given in section IV. The accompanying Geographic Key to Area Index Charts delimits 24 areas that collectively encompass the world oceans. The areas are treated in the order of their numbering sequence on the index map, and each is introduced by a listing of projects for the specific area. Additional charts are used to separate and clearly depict all tracklines and survey limits in any area. The geographic grid of each chart divides the area into 10-degree squares. The small number in the lower right corner of each square refers to the Marsden Square Index System.



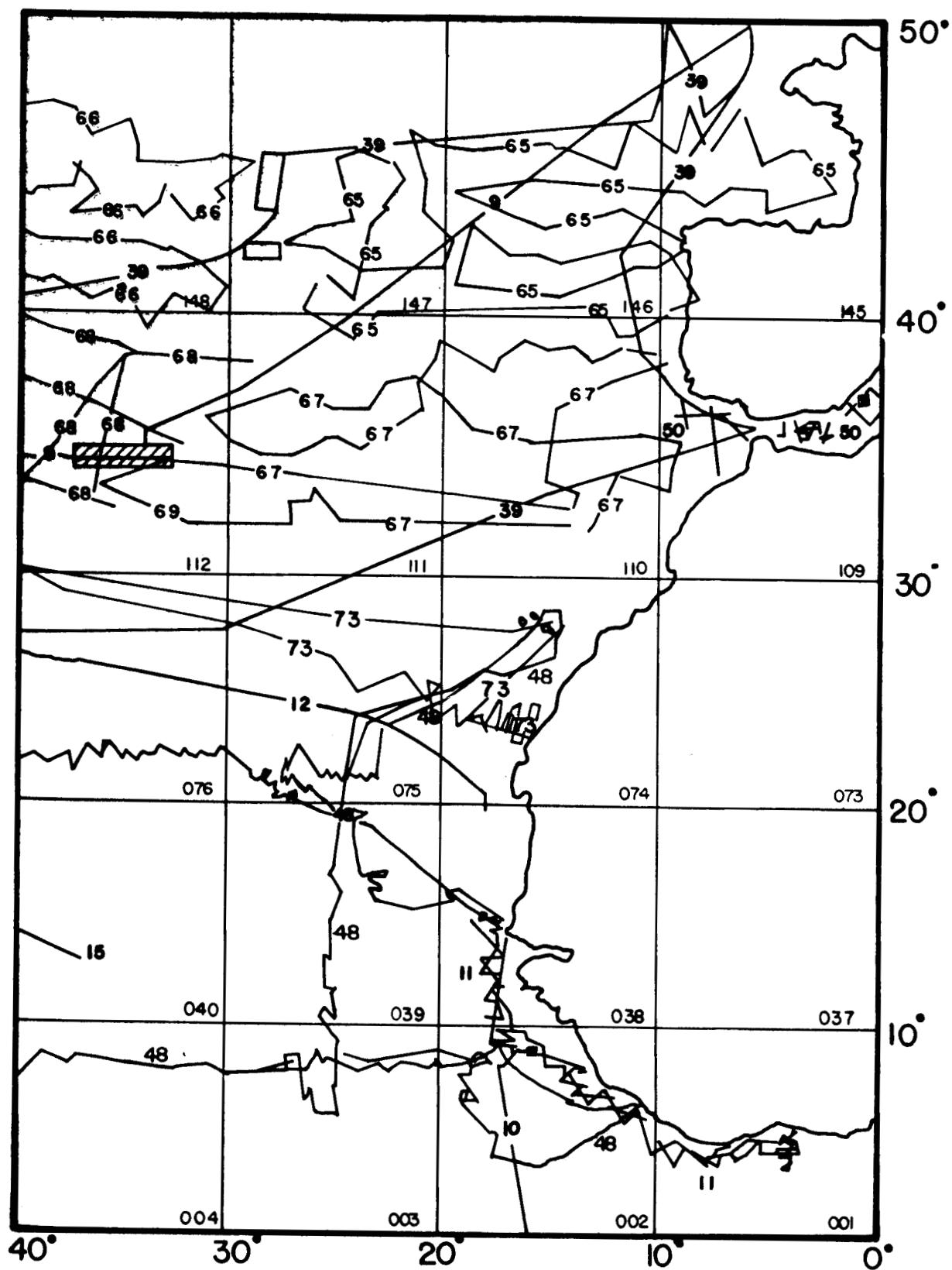
GEOGRAPHIC KEY TO AREA INDEX CHARTS

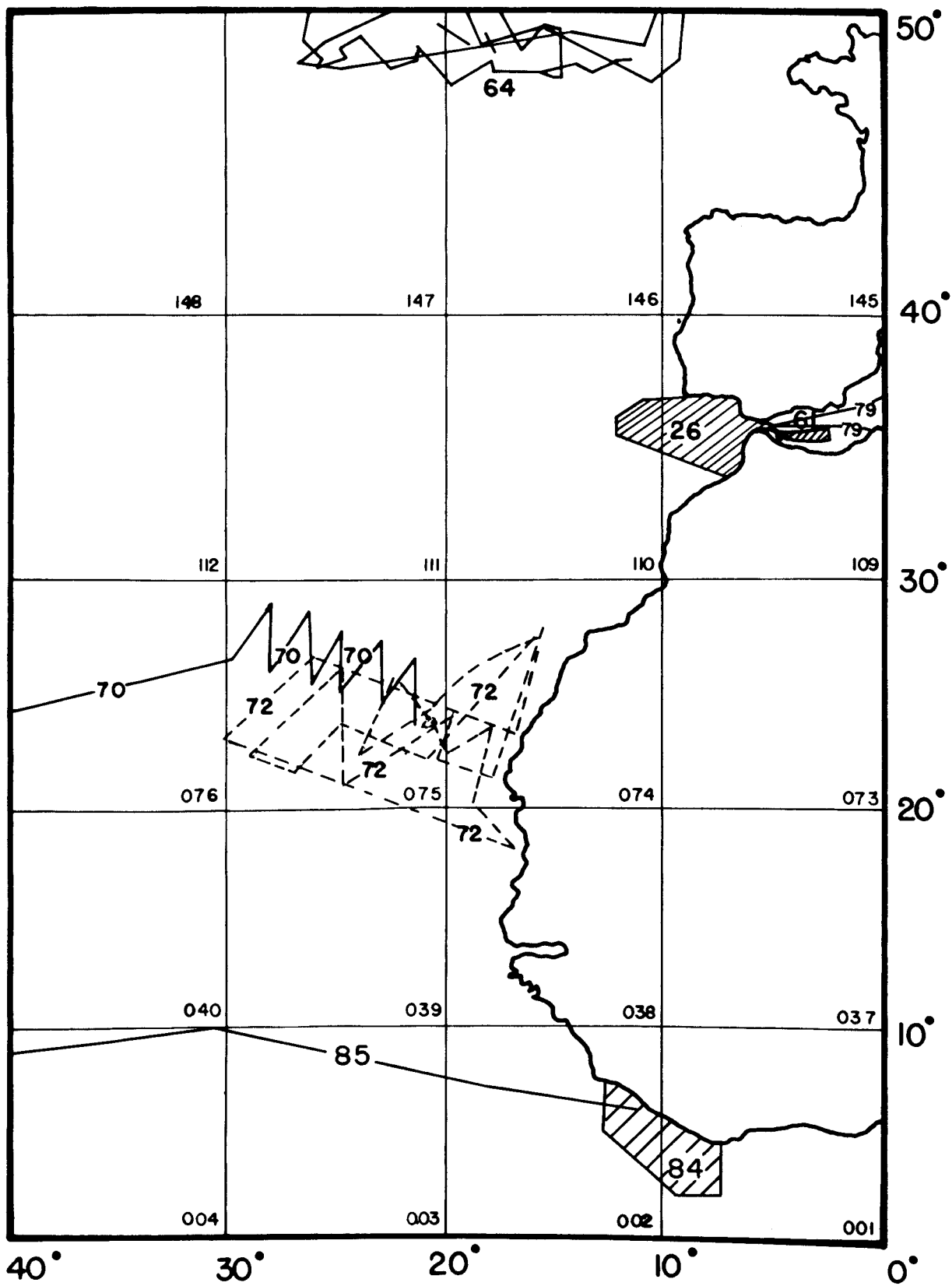
LIST OF PROJECTS IN AREA 1

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00009	M*	M	M	M	M
00010	M	M	M	M	
00011	M	M	M	M	
00012	M	M	M	M	
00026		M		M	
00039	M	M			M
00048	M	M	M		M
00050	M				M
00061	M	M			
00064	M	M	M		M
00065	M	M	M		M
00066	M	M	M		M
00067	M	M	M		M
00068	M	M	M		M
00070	T*	T	T	T	
00072	T		T		
00073	T	T	T		
00079	M	M	M		M
00084	T	T			
00085	T	T			

*M = Microfilm

T = Magnetic Tape





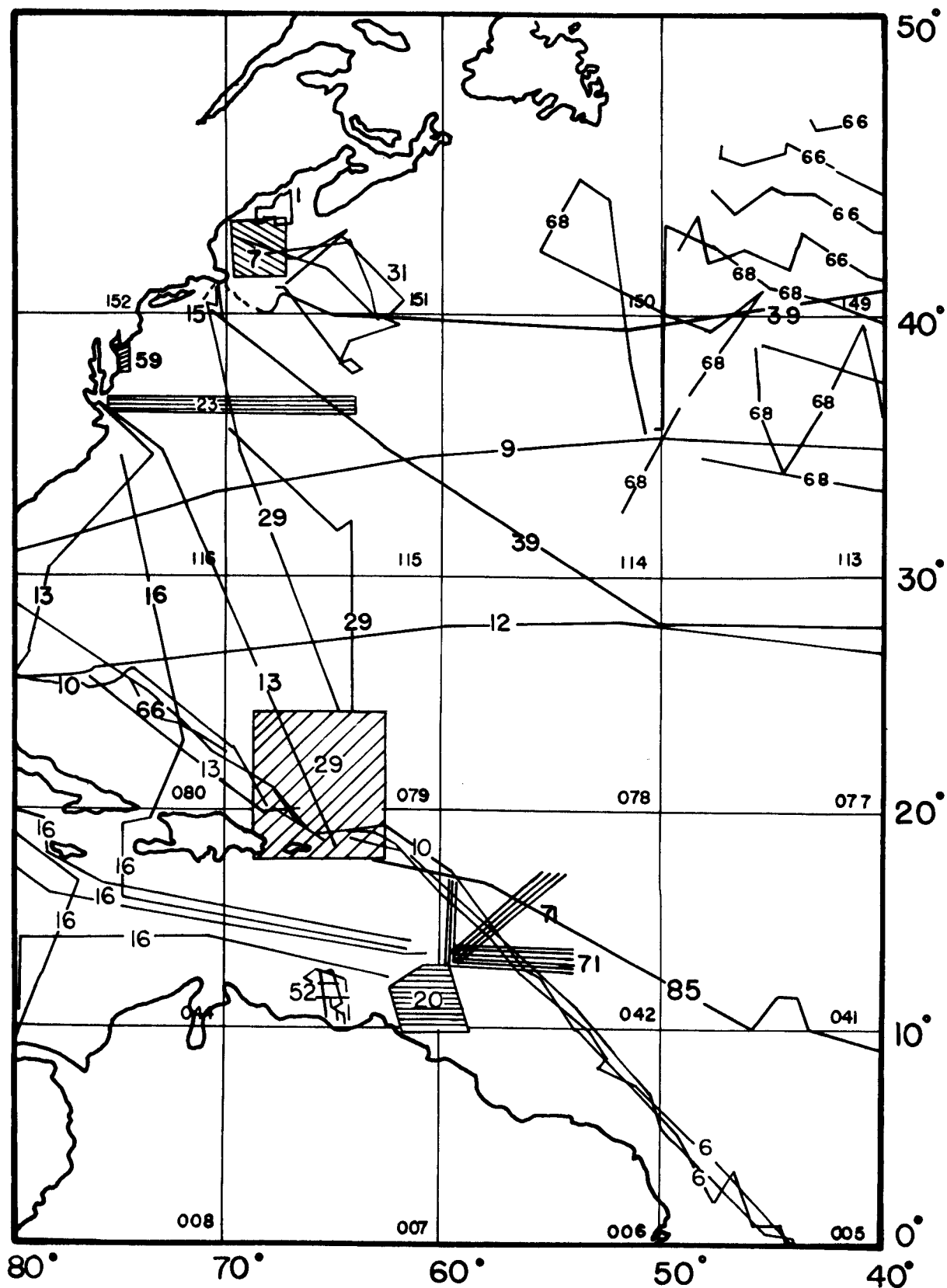
AREA I CHART 2

LIST OF PROJECTS IN AREA 2

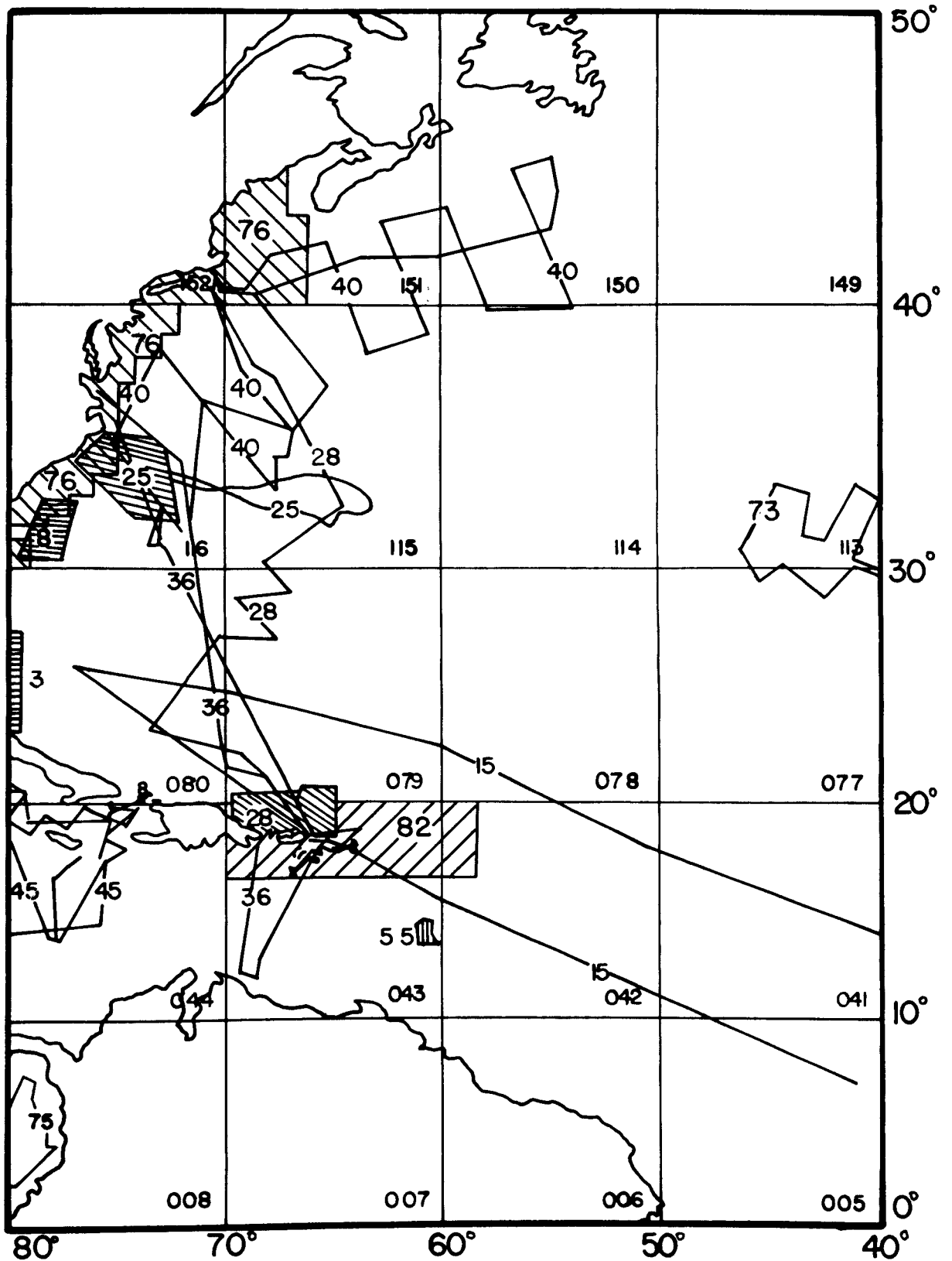
<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00001	M*	M			M
00003	M				M
00006	M	M	M	M	
00007	M	M	M	M	
00008	M	M	M	M	
00009	M	M	M	M	M
00010	M	M	M	M	
00012	M	M	M	M	
00013	M	M	M		
00015	M	M	M	M	
00016	M		M	M	
00020	M	M	M	M	
00023	M	M	M	M	
00025	M	M			
00028	M	M			M
00029	M	M			M
00031	M	M	M		M
00034	M				M
00036	M	M			M
00038	M	M			M
00039	M	M			M
00040	M	M	M		M
00045	M				M
00046	M	M			
00048	M	M	M		M
00052	T*	T	T	T	M
00055	T	T	T		
00056	M	M	M		
00059	M				M
00060	M	M			
00066	M	M	M		M
00068	M	M	M		M
00071	T	T	T	T	
00073	T	T	T		
00075	T	T	T	T	
00076	T			T	
00082	T	T			M
00083	T	T			M
00085	T	T			

*M = Microfilm

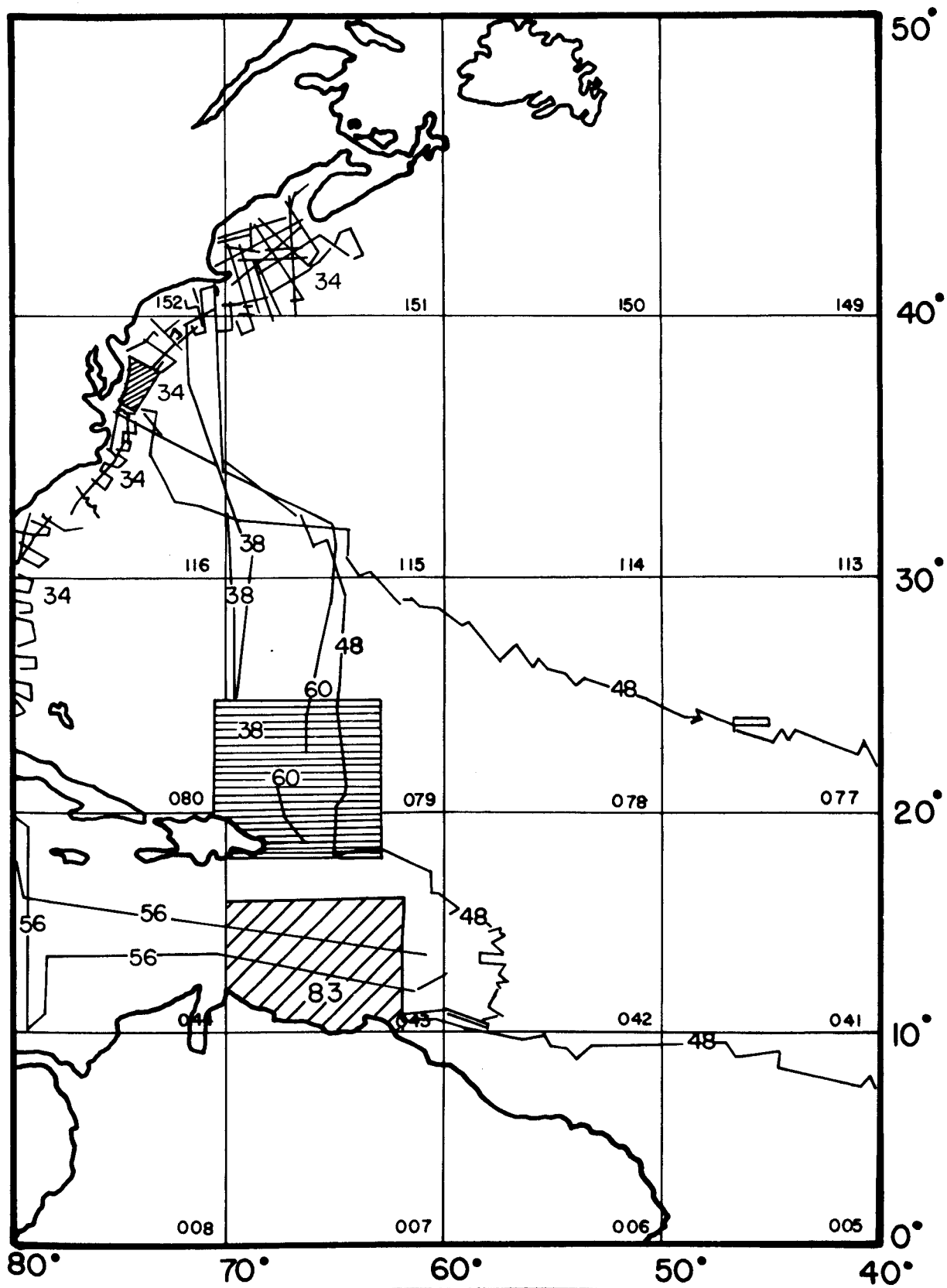
*T = Magnetic Tape



AREA 2 CHART I



AREA 2 CHART 2

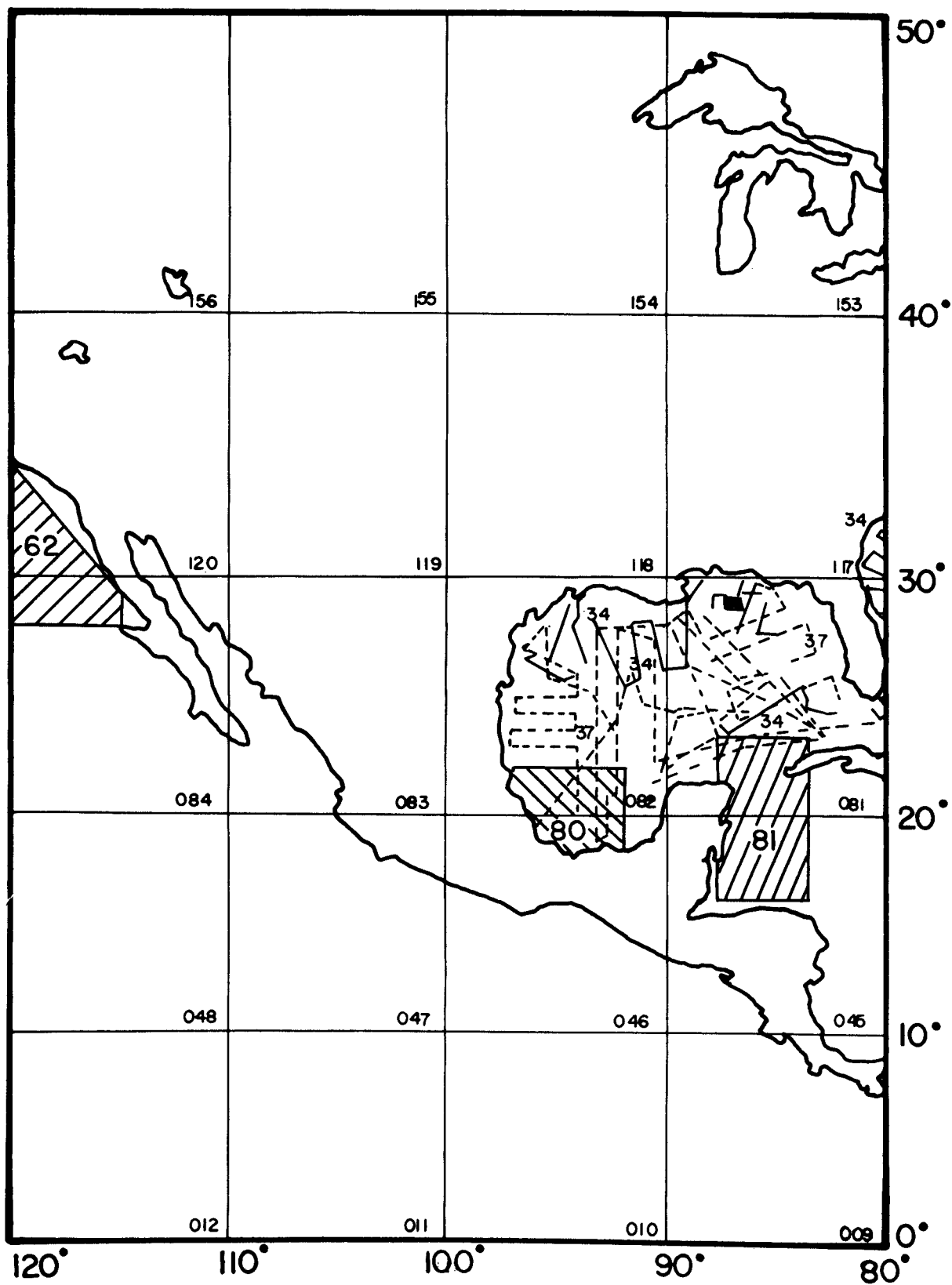


AREA 2 CHART 3

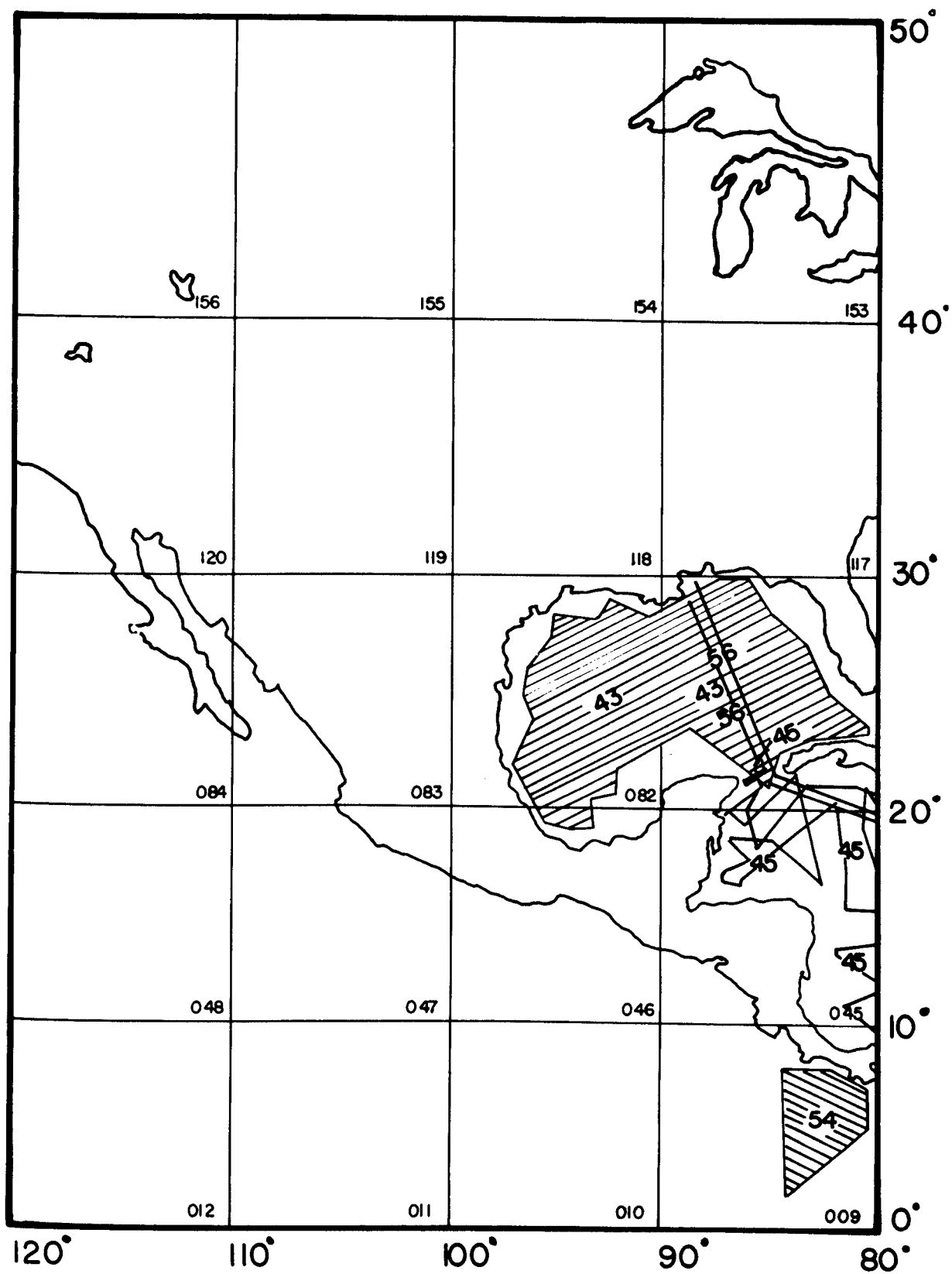
LIST OF PROJECTS IN AREA 3

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00003	M*				M
00004	M	M			M
00009	M	M	M	M	M
00015	M	M	M	M	
00016	M		M	M	
00018	M	M			M
00034	M				M
00035	M	M			M
00037	M				M
00043	M				M
00045	M				M
00054	T*	T	T	T	
00056	M	M	M		
00062	M				M
00069	M	M	M	M	
00074	T	T	T		
00075	T	T	T	T	
00077	T			T	
00078	T			T	
00080	T	T			M
00081	T	T			M

*M = Microfilm T = Magnetic Tape



AREA 3 CHART 2

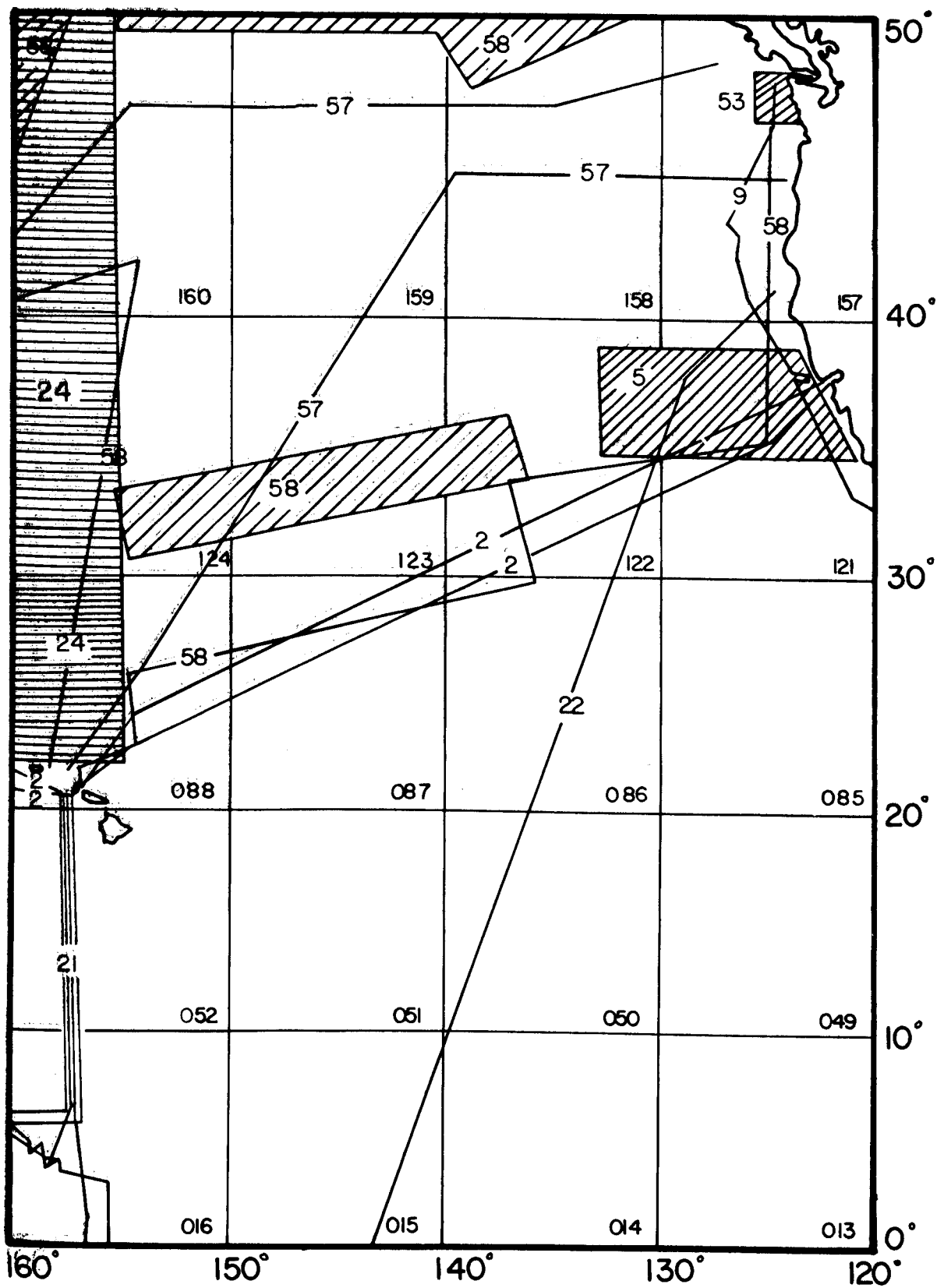


AREA 3 CHART 3

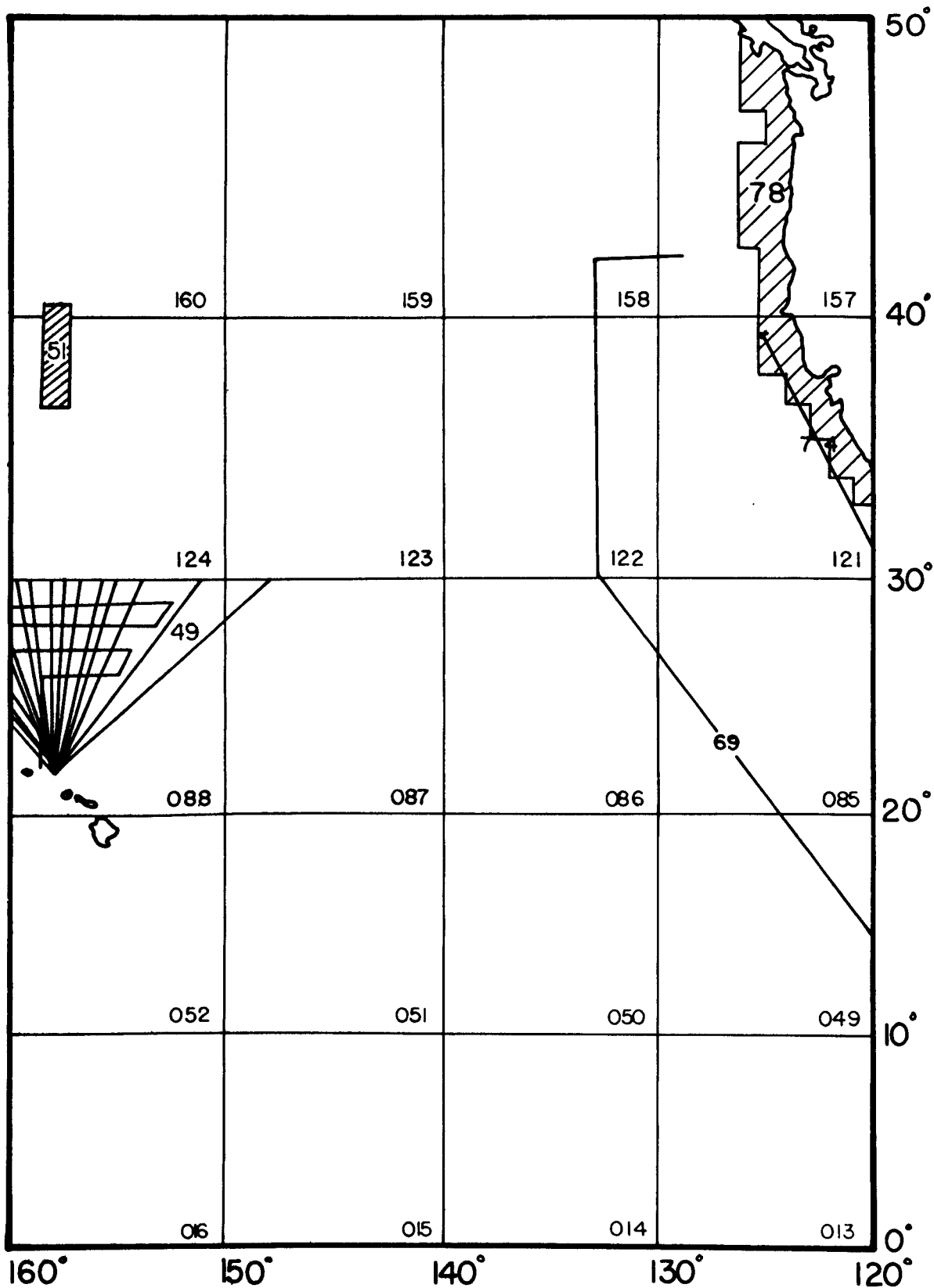
LIST OF PROJECTS IN AREA 4

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00002	T*	T	T	T	M*
00005	T	T	T	T	M
00009	M	M	M	M	M
00021	M	M	M	M	
00022	M	M	M	M	
00024	T	T	T	T	
00049	M	M			M
00051	M	M	M	M	
00053	M				M
00057	M	M	M	M	
00058	M	M	M	M	M
00062	M				M
00069	M	M	M	M	
00074	T	T	T		
00078	T			T	

*M = Microfilm T = Magnetic Tape



AREA 4 CHART I

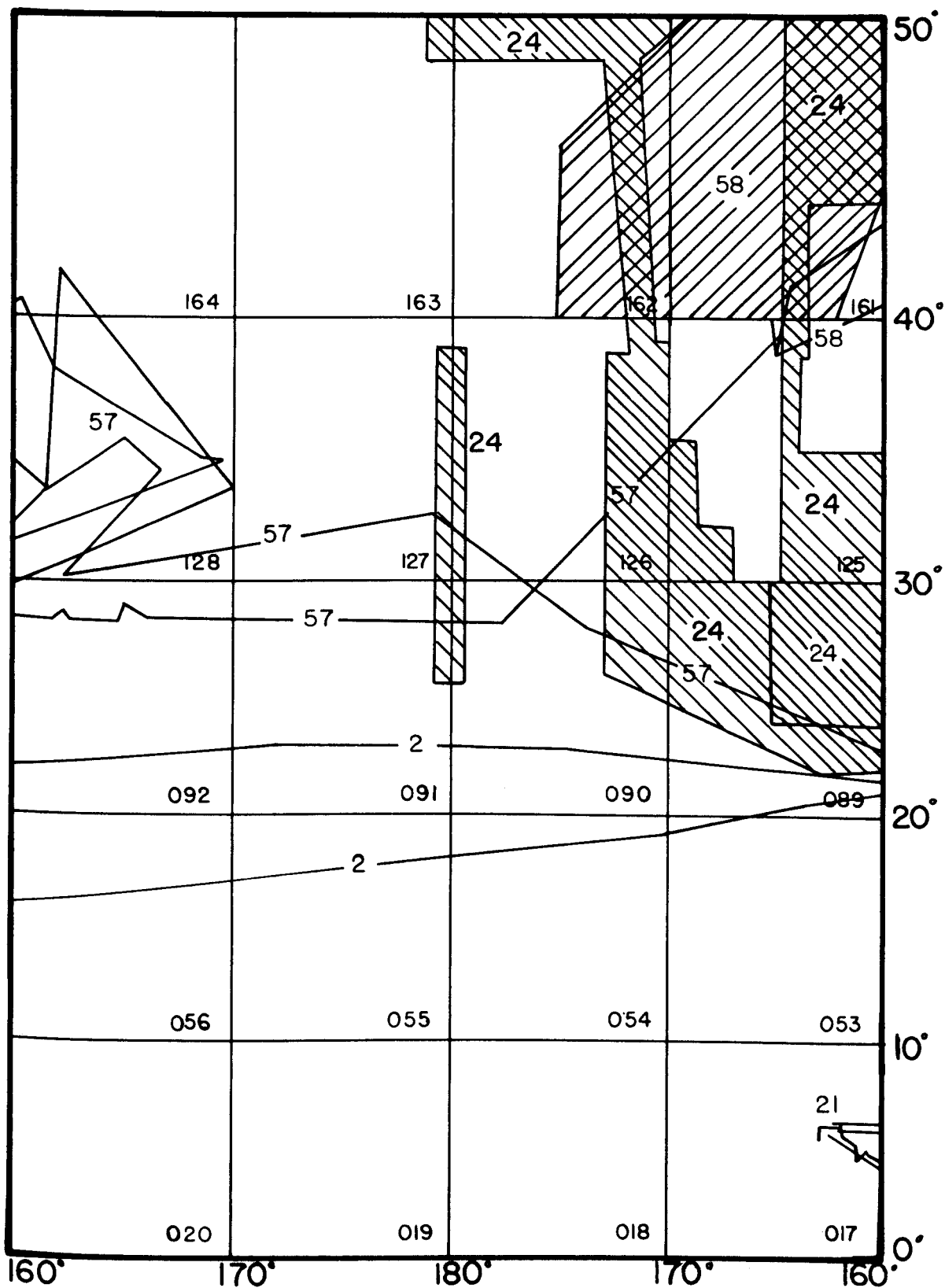


AREA 4 CHART 2

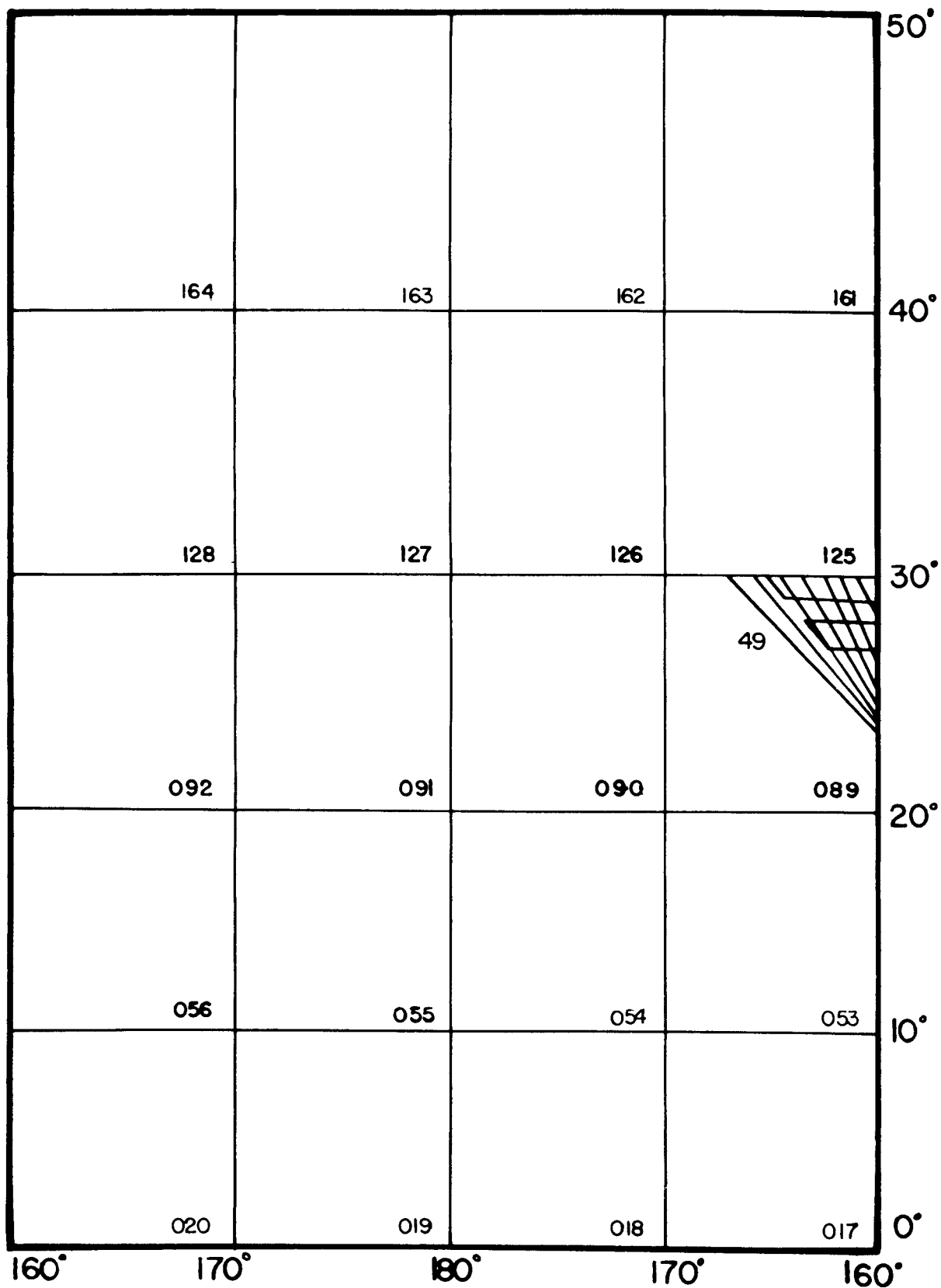
LIST OF PROJECTS IN AREA 5

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00002	T*	T	T	T	M*
00021	M	M	M	M	
00024	T	T	T	T	
00049	M	M			M
00057	M	M	M	M	
00058	M	M	M	M	M

*M = Microfilm T = Magnetic Tape



AREA 5 CHART I

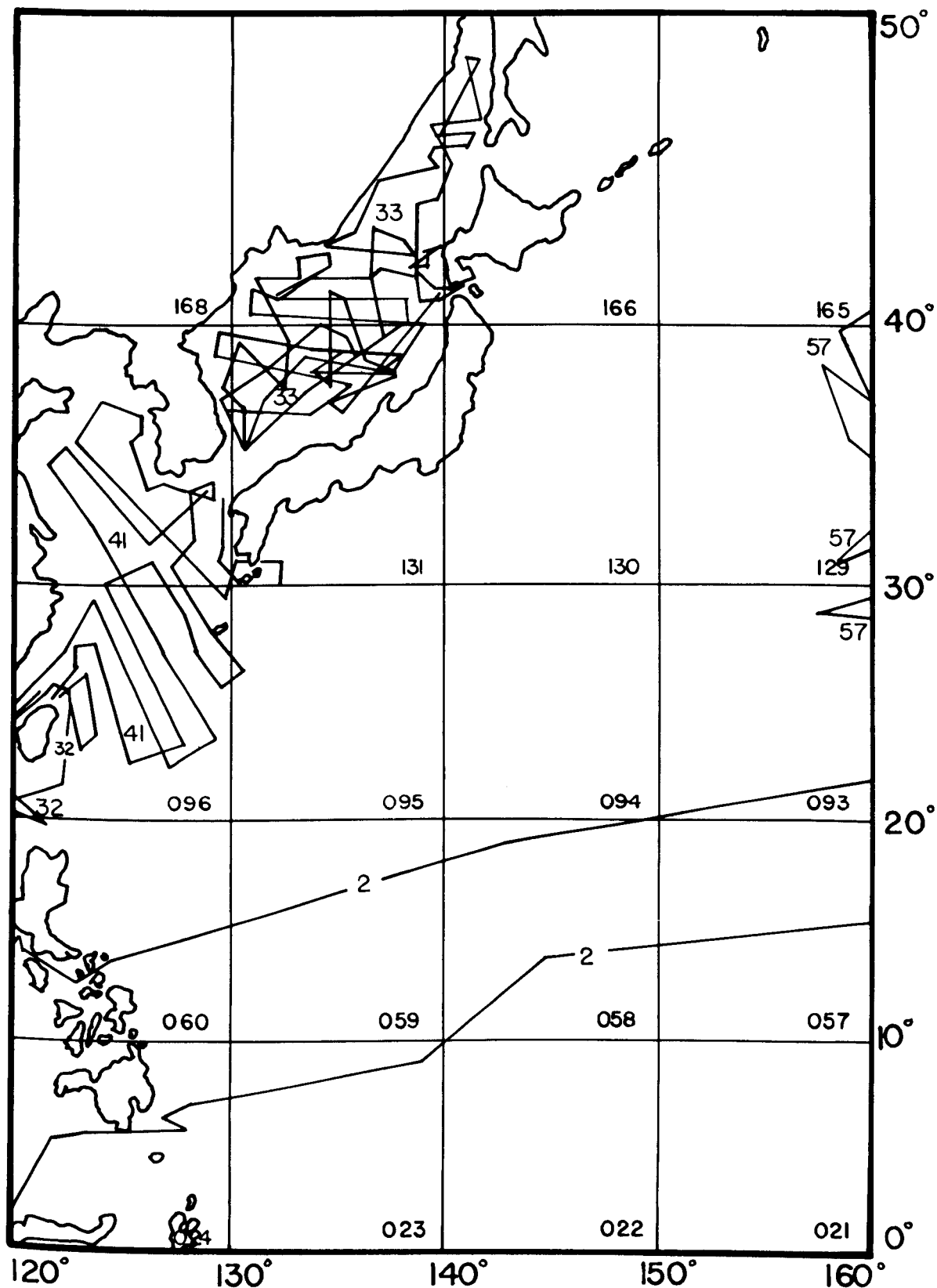


AREA 5 CHART 2

LIST OF PROJECTS IN AREA 6

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00002	T*	T	T	T	M*
00030	M				M
00032	M				M
00033	M	M			M
00041	M				M

*M = Microfilm T = Magnetic Tape

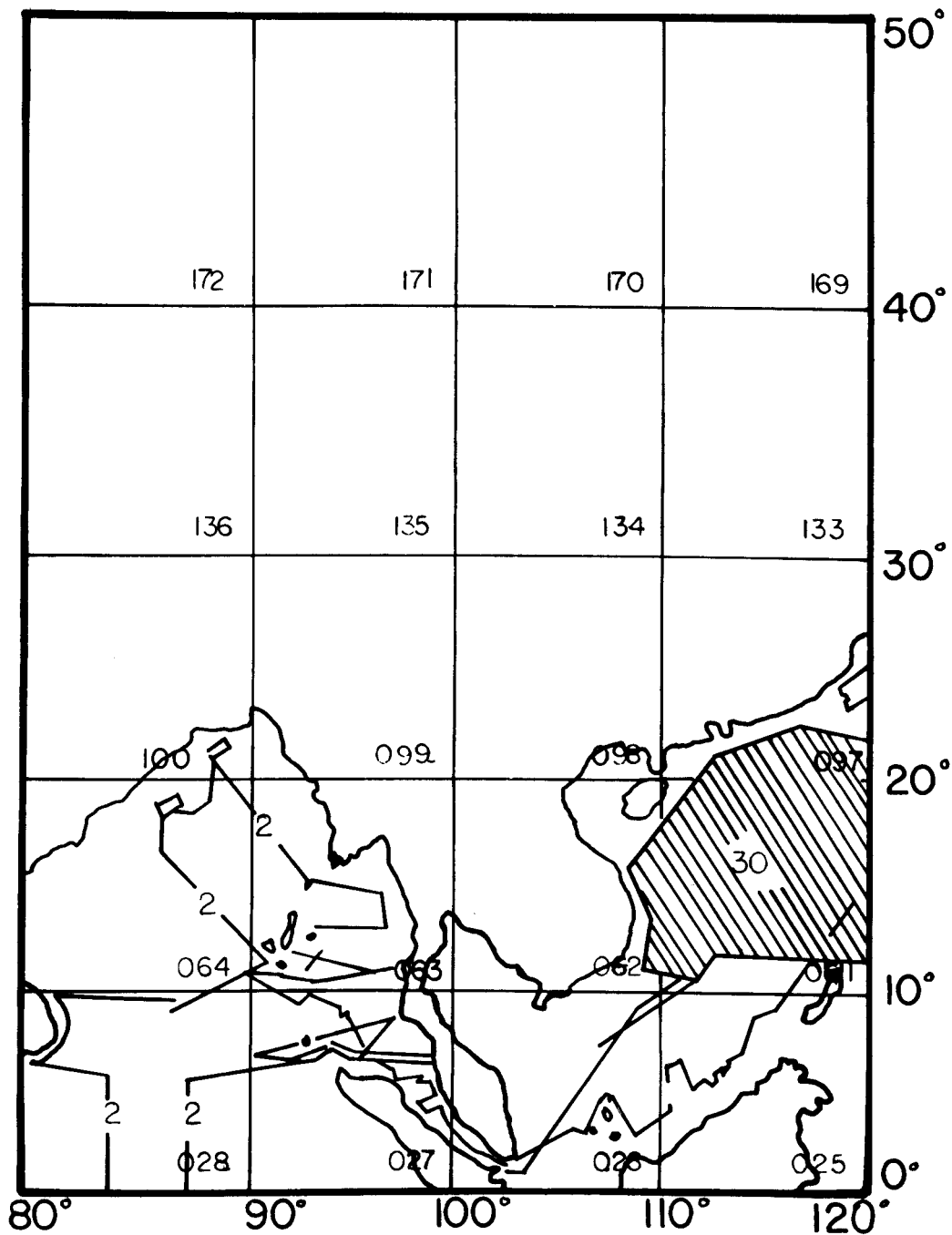


LIST OF PROJECTS IN AREA 7

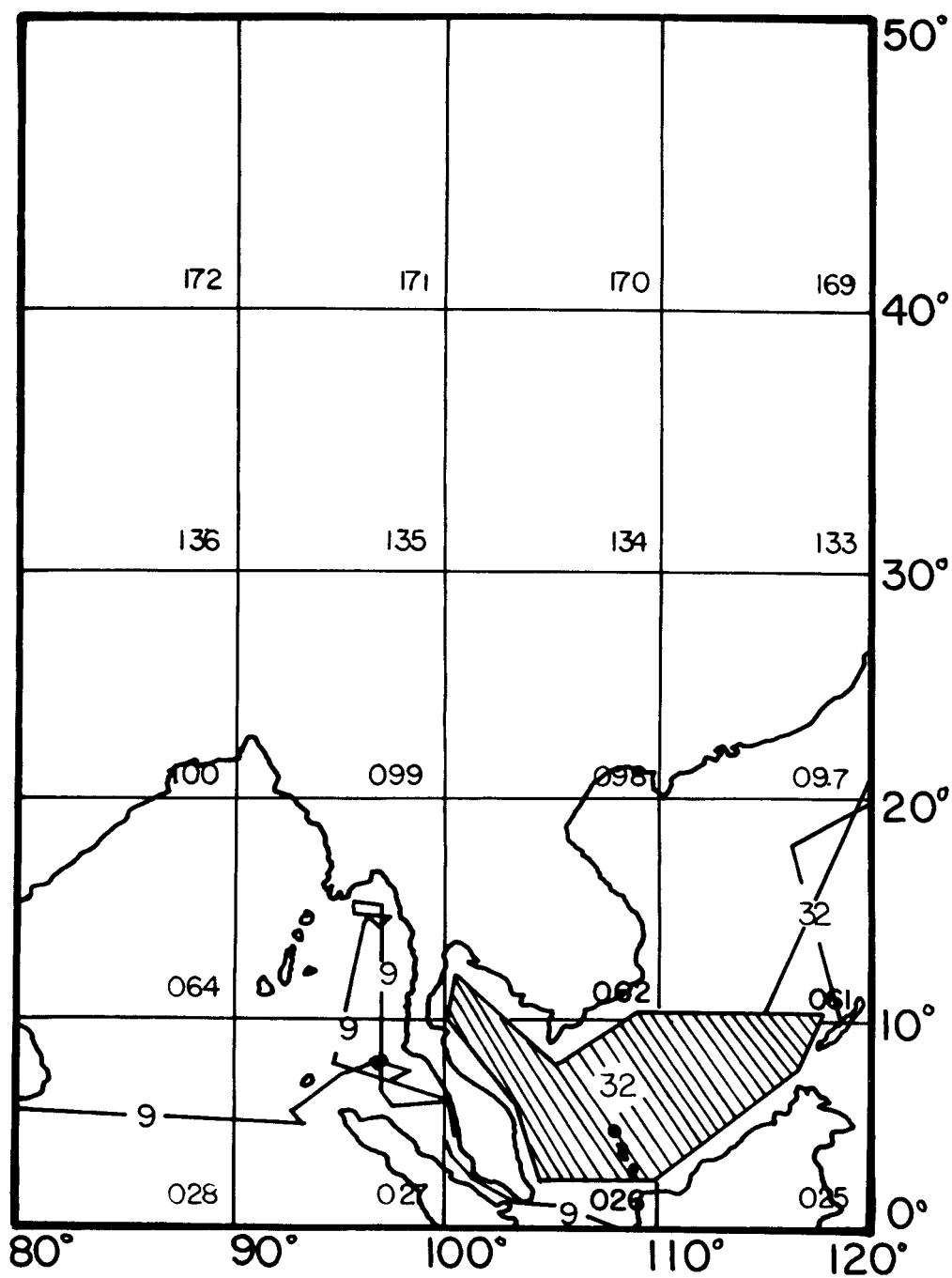
<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00002	M*T*	M T	M T	M T	M
00009	M				M
00030	M				M
00032	M				M
00041	M				M

*M = Microfilm

T = Magnetic Tape



AREA 7 CHART I

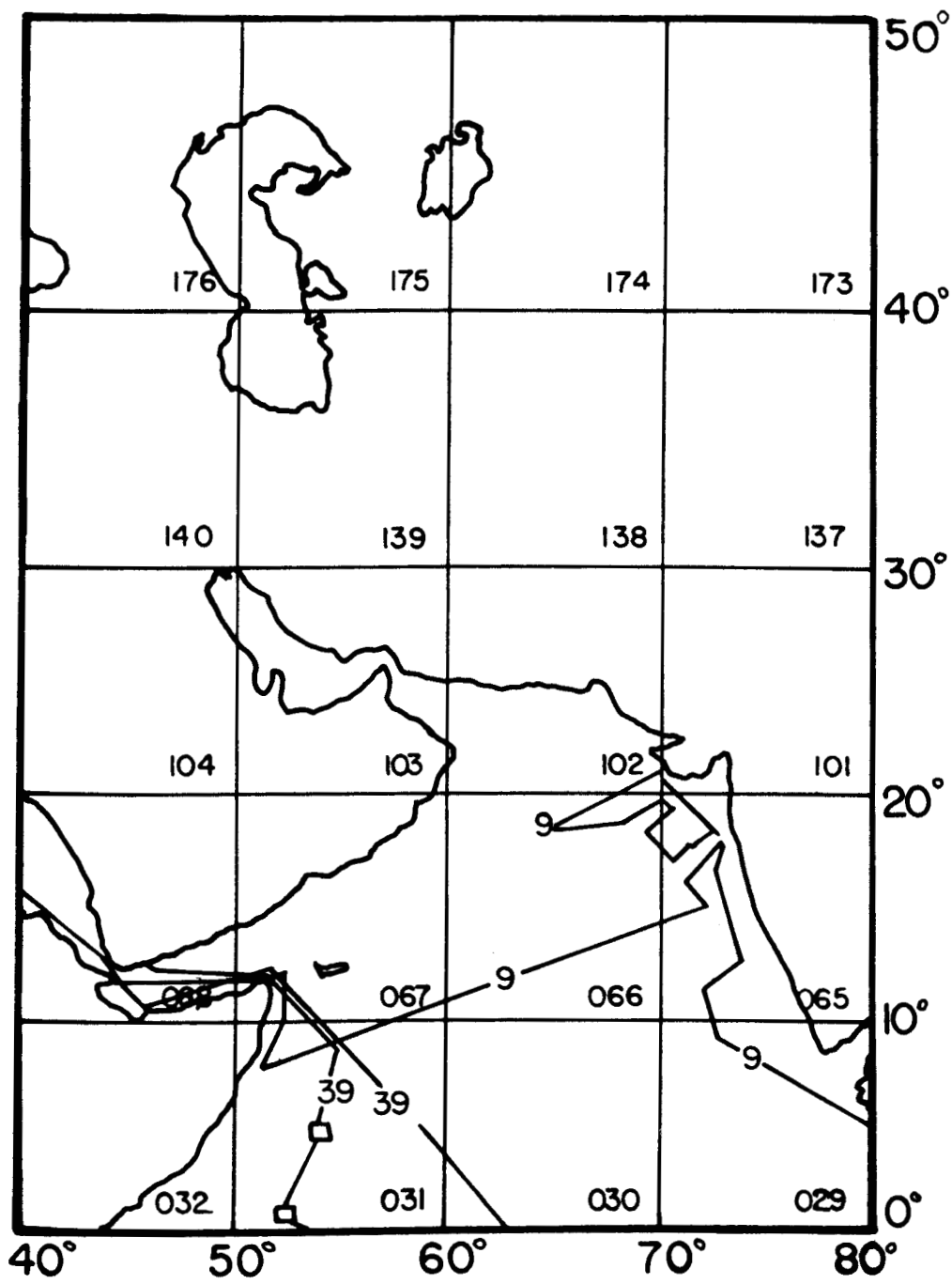


AREA 7 CHART 2

LIST OF PROJECTS IN AREA 8

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00009	M*	M	M	M	M
00039	M	M			M
00046	M	M			

*M = Microfilm T = Magnetic Tape

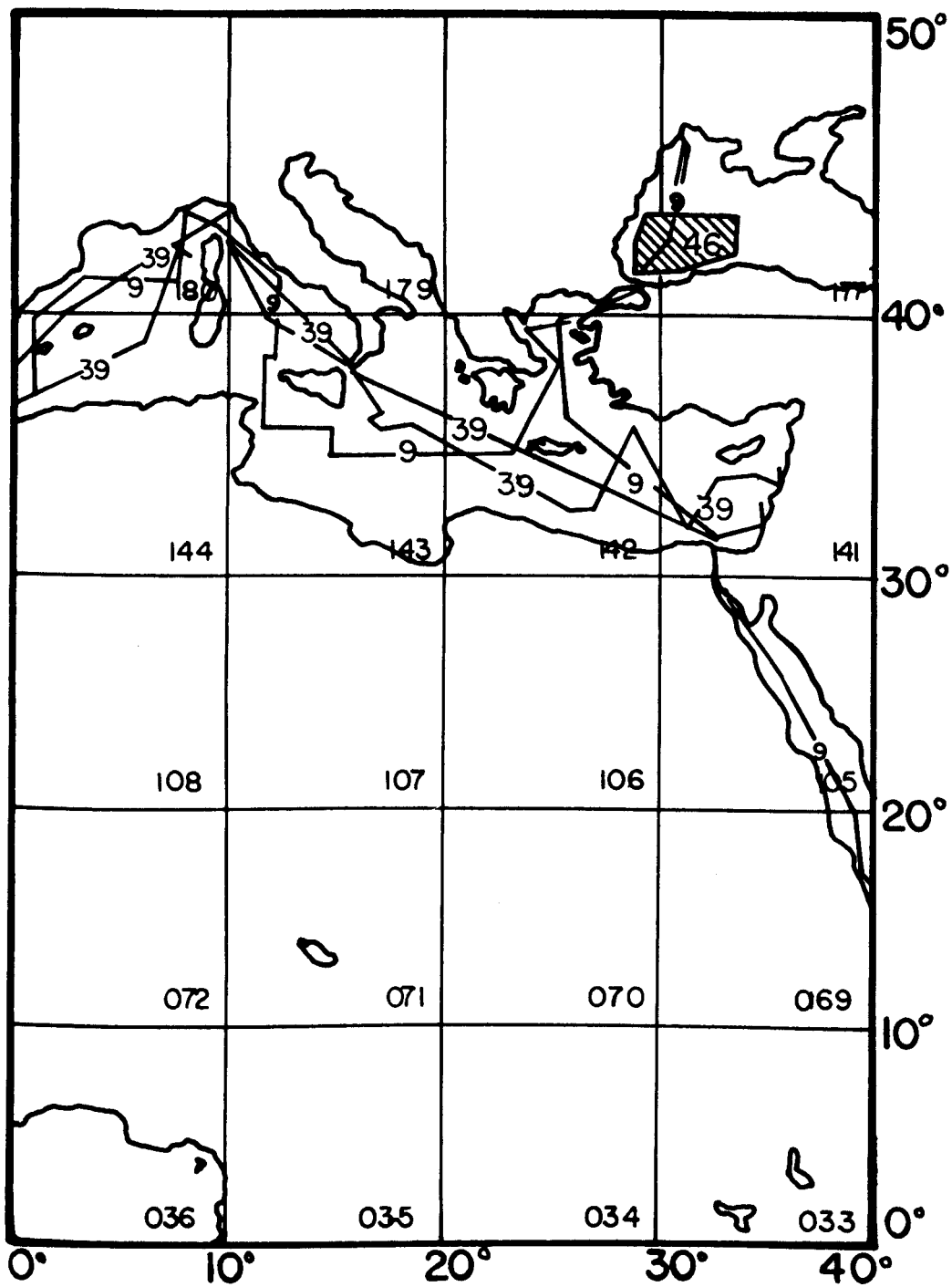


AREA 8 CHART I

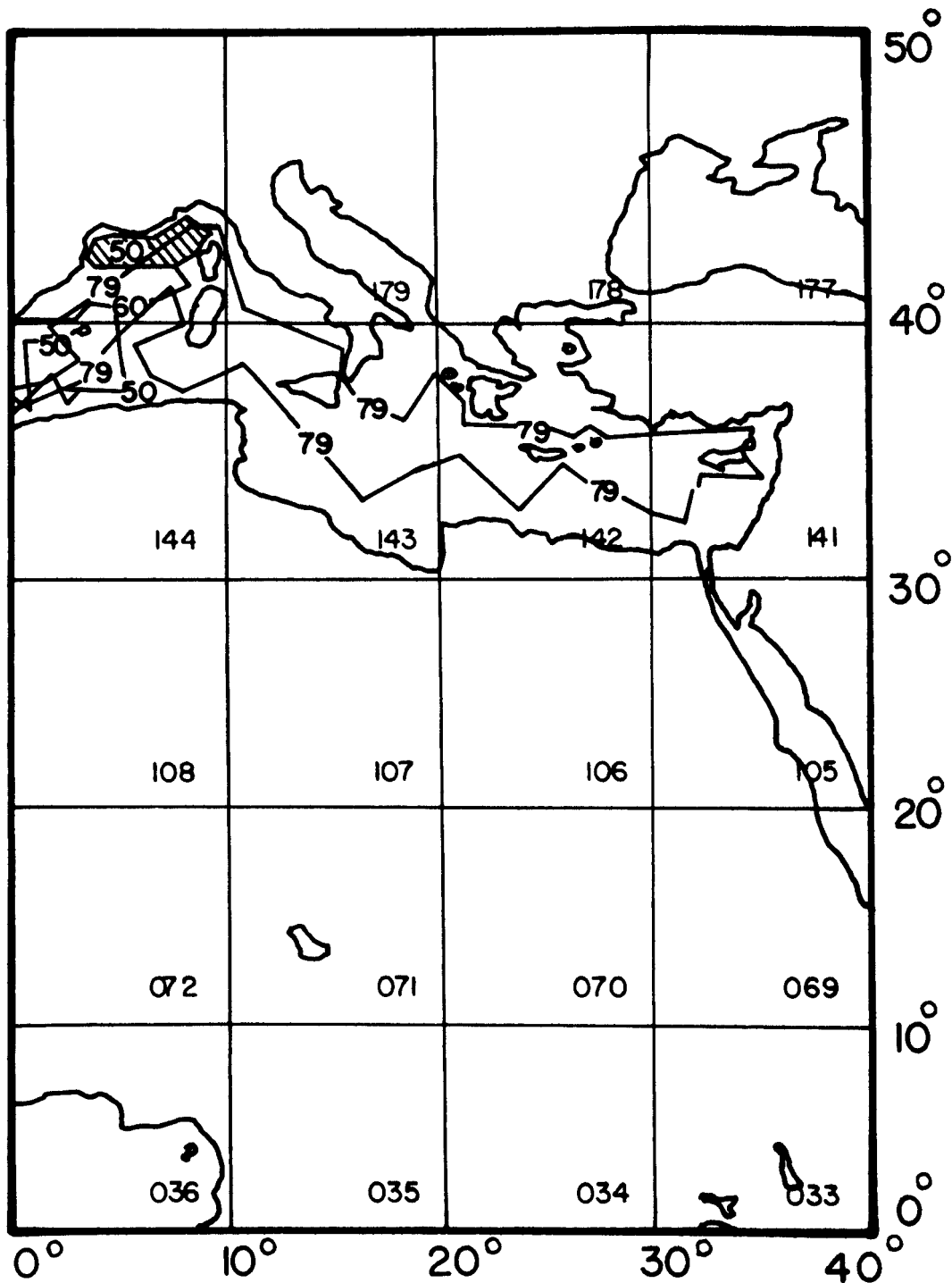
LIST OF PROJECTS IN AREA 9

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00009	M*	M	M	M	M
00039	M	M			M
00046	M	M			
00050	M				M
00079	M	M	M		M

*M = Microfilm T = Magnetic Tape



AREA 9 CHART I



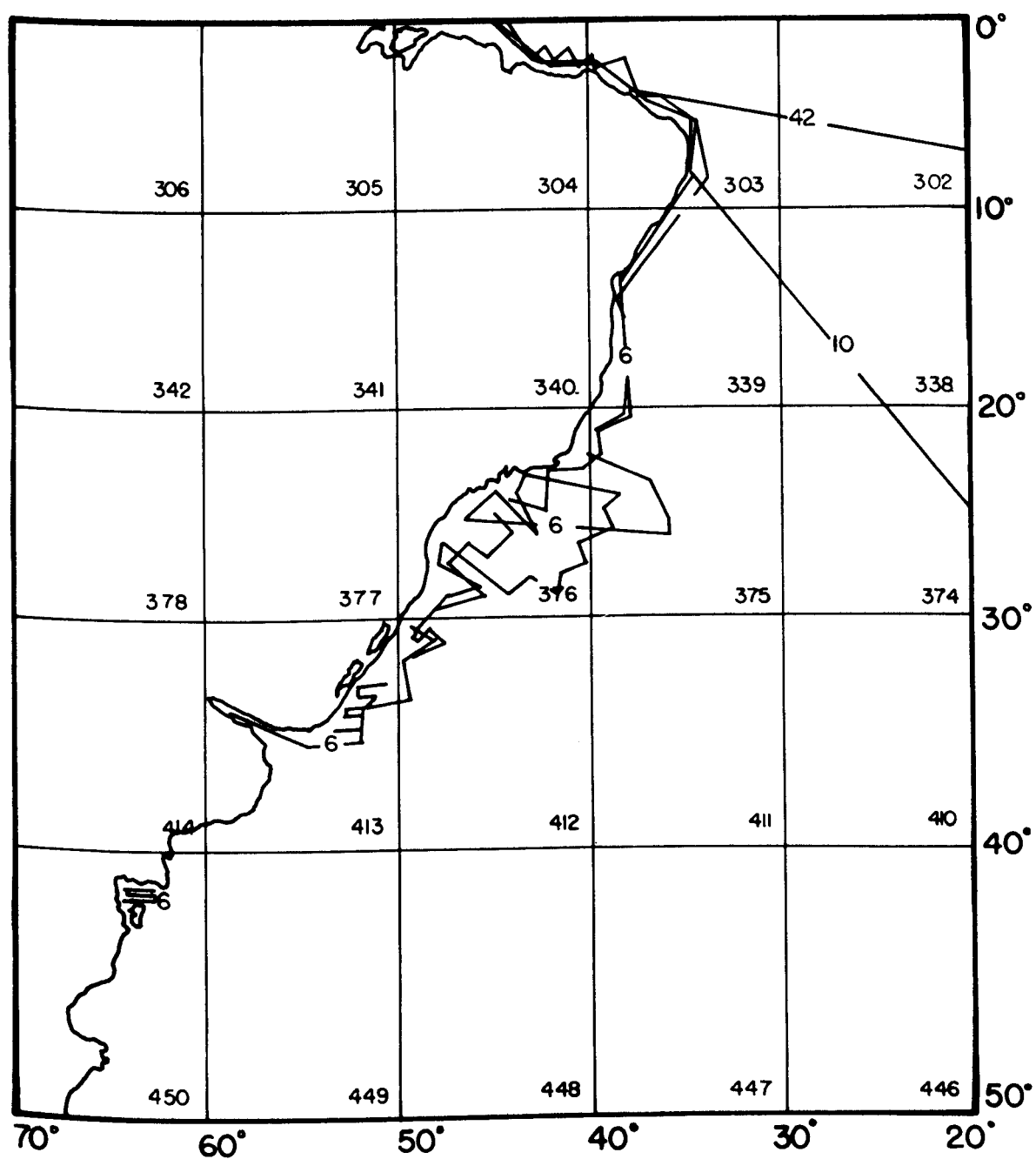
AREA 9 CHART 2

LIST OF PROJECTS IN AREA 10

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00006	M*	M	M	M	M
00010	M	M	M	M	
00042	M	M			M

*M = Microfilm

T = Magnetic Tape



AREA 10 CHART I

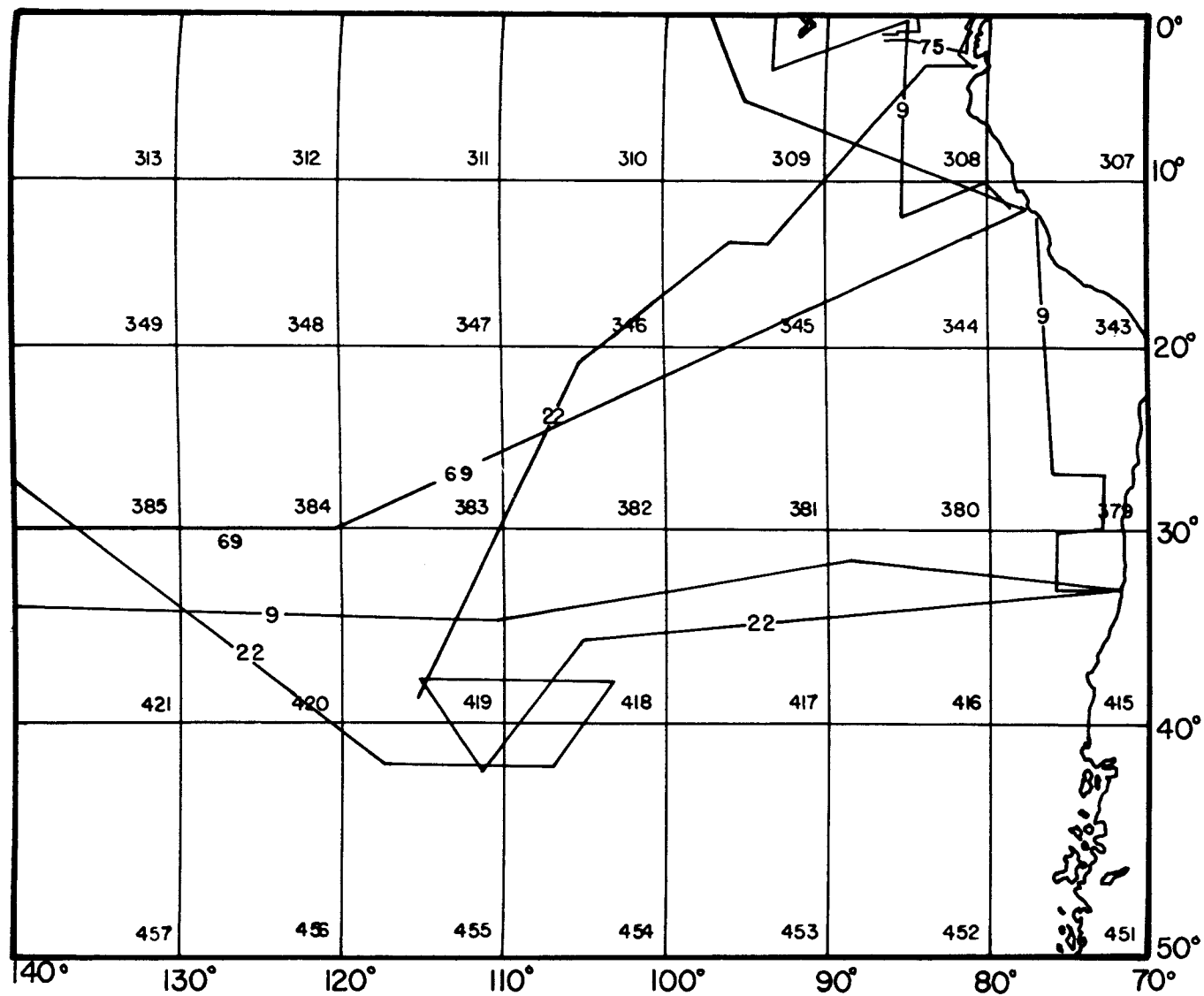
LIST OF PROJECTS IN AREA 11

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00009	M*	M	M	M	M
00022	M	M	M	M	
00069	M	M	M	M	
00075	T*	T	T	T	

*M = Microfilm T = Magnetic Tape

6-72

II-11.1

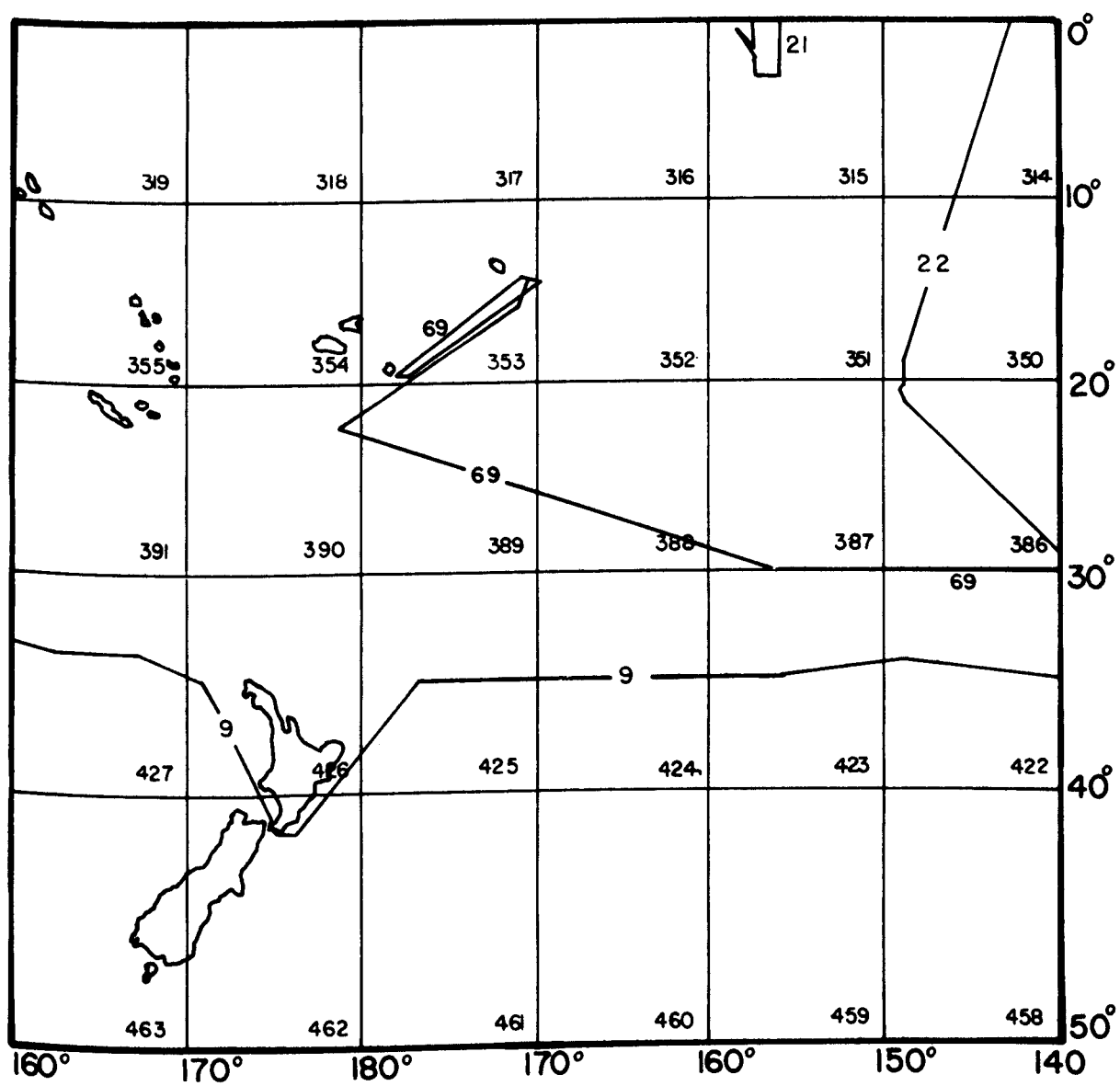


AREA II CHART I

LIST OF PROJECTS IN AREA 12

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00009	M*	M	M	M	M
00021	M	M	M	M	
00022	M	M	M	M	
00069	M	M	M	M	

*M = Microfilm T = Magnetic Tape



AREA 12 CHART 1

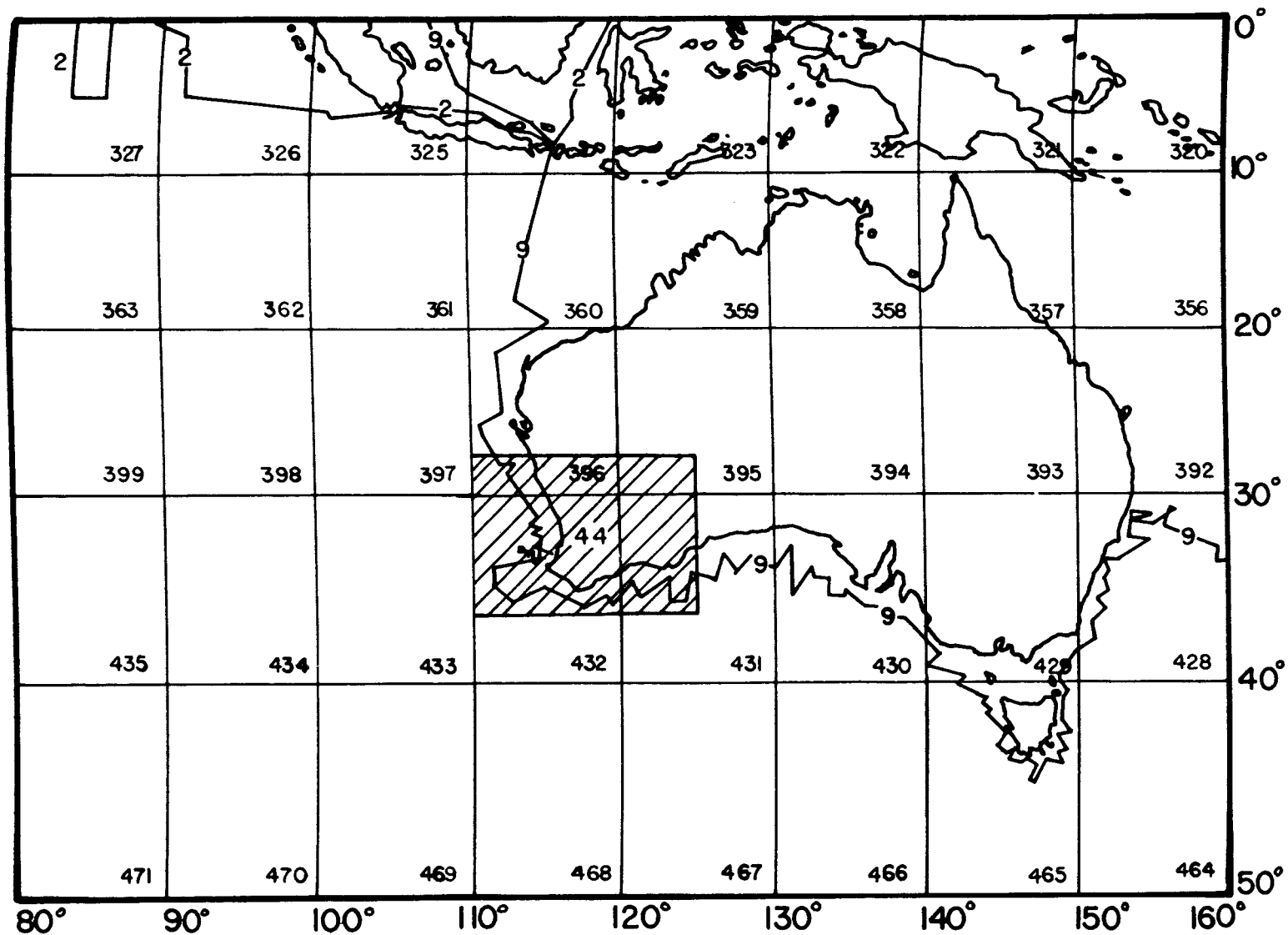
LIST OF PROJECTS IN AREA 13

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00002	T*	T	T	T	M*
00009	M	M	M	M	M
00044	M				M

*M = Microfilm T = Magnetic Tape

6-72

II-13.1

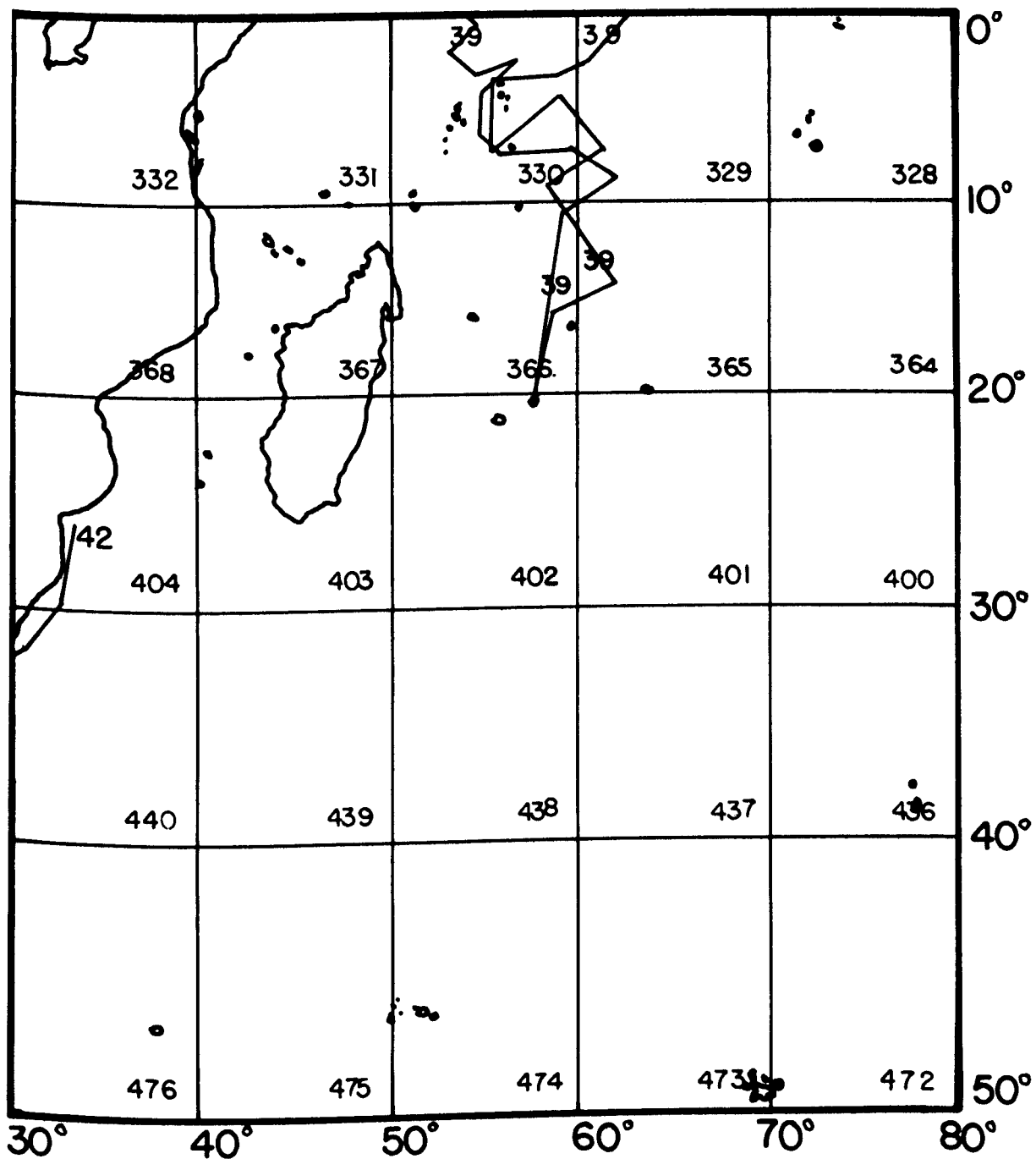


AREA 13 CHART I

LIST OF PROJECTS IN AREA 14

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00039	M*	M			M
00042	M	M			M

*M = Microfilm T = Magnetic Tape

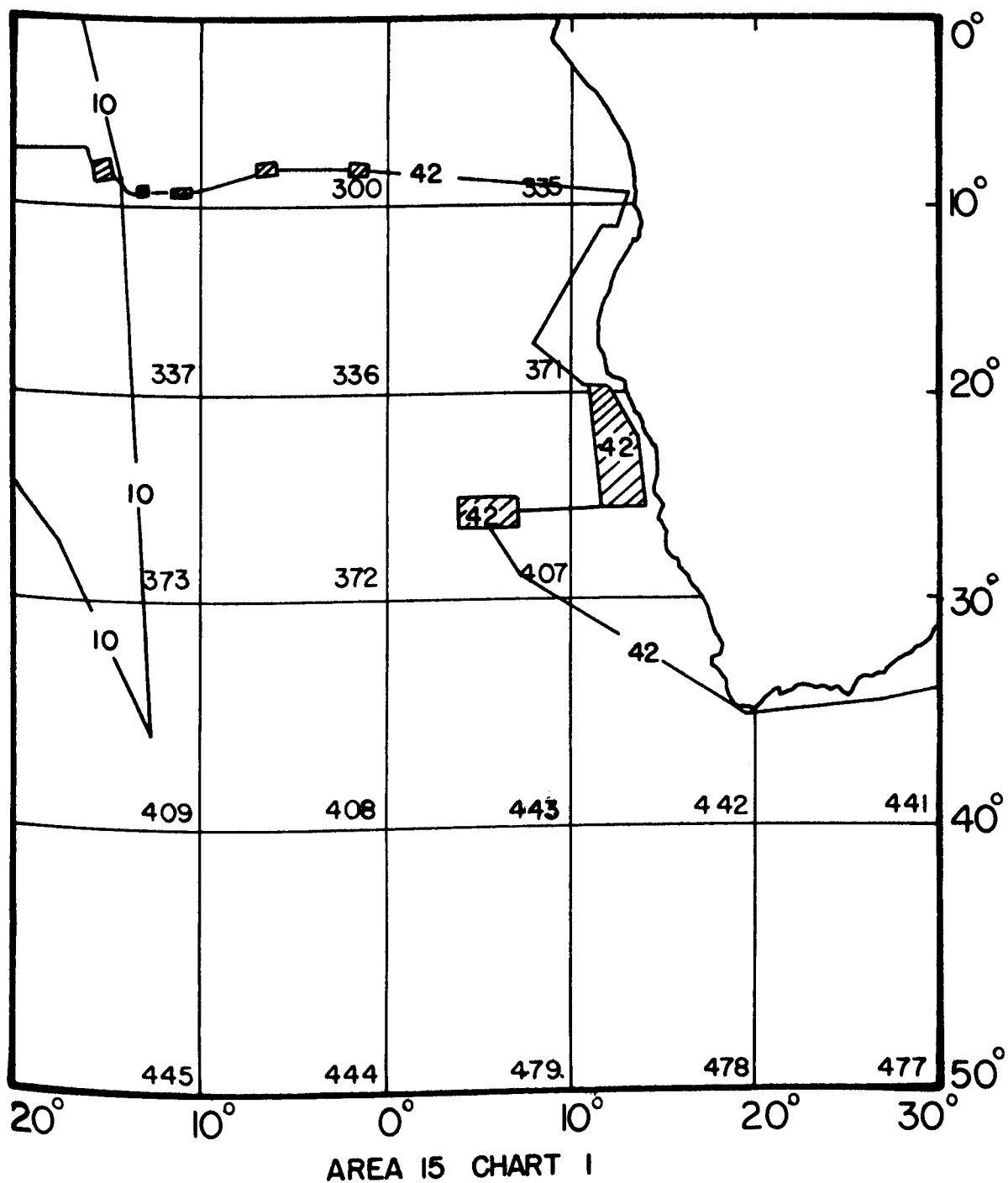


AREA 14 CHART I

LIST OF PROJECTS IN AREA 15

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00010	M*	M	M	M	
00042	M	M			M

*M = Microfilm T = Magnetic Tape

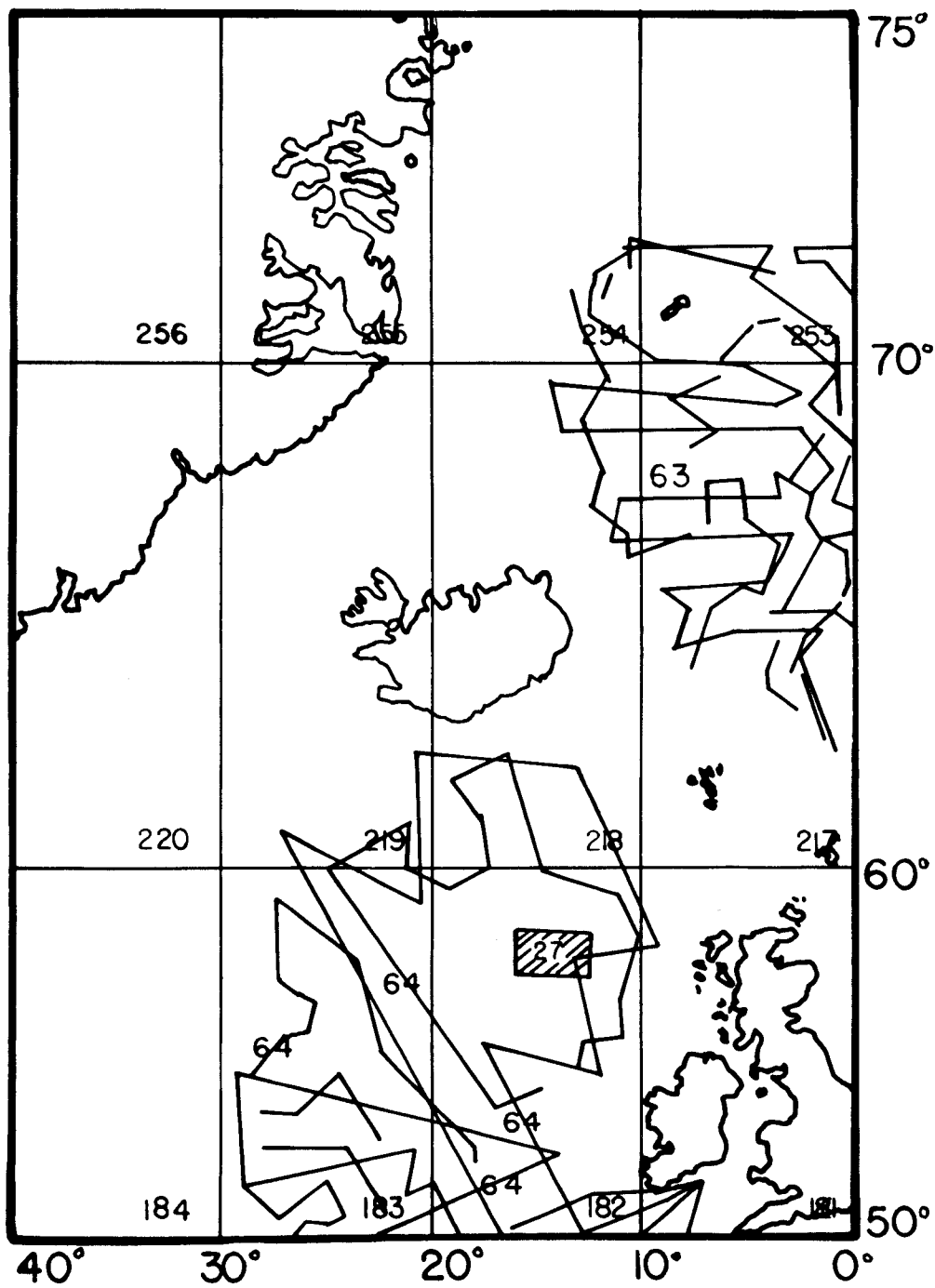


LIST OF PROJECTS IN AREA 16

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00027	M*	M			
00063	M	M			
00064	M	M	M		M

*M = Microfilm

T = Magnetic Tape

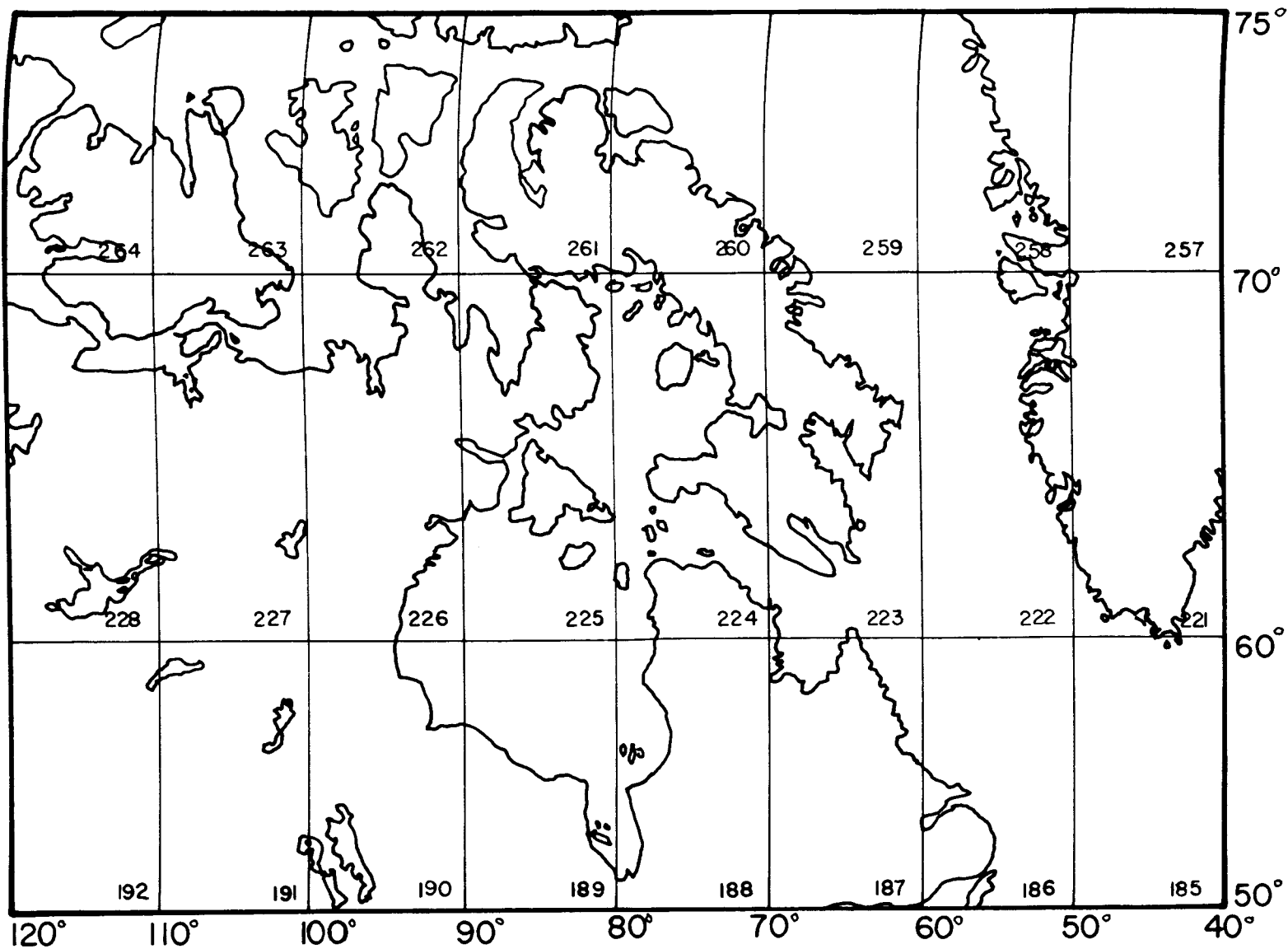


LIST OF PROJECTS IN AREA 17

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
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6-72

II-17.1



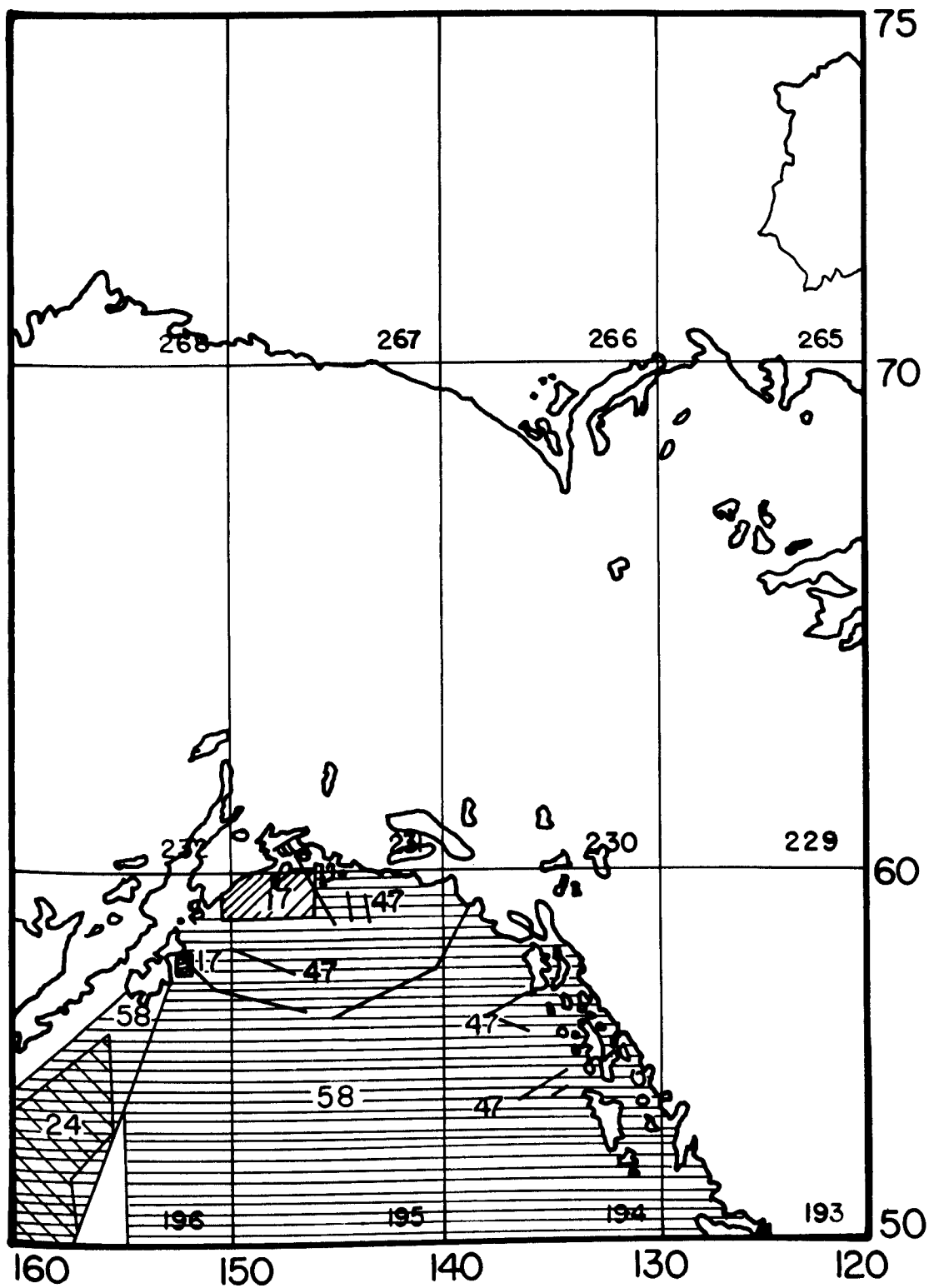
AREA 17 CHART I

LIST OF PROJECTS IN AREA 18

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00017	M*				M
00024	T*	T	T	T	
00047	M				M
00058	M	M	M	M	M

*M = Microfilm

T = Magnetic Tape



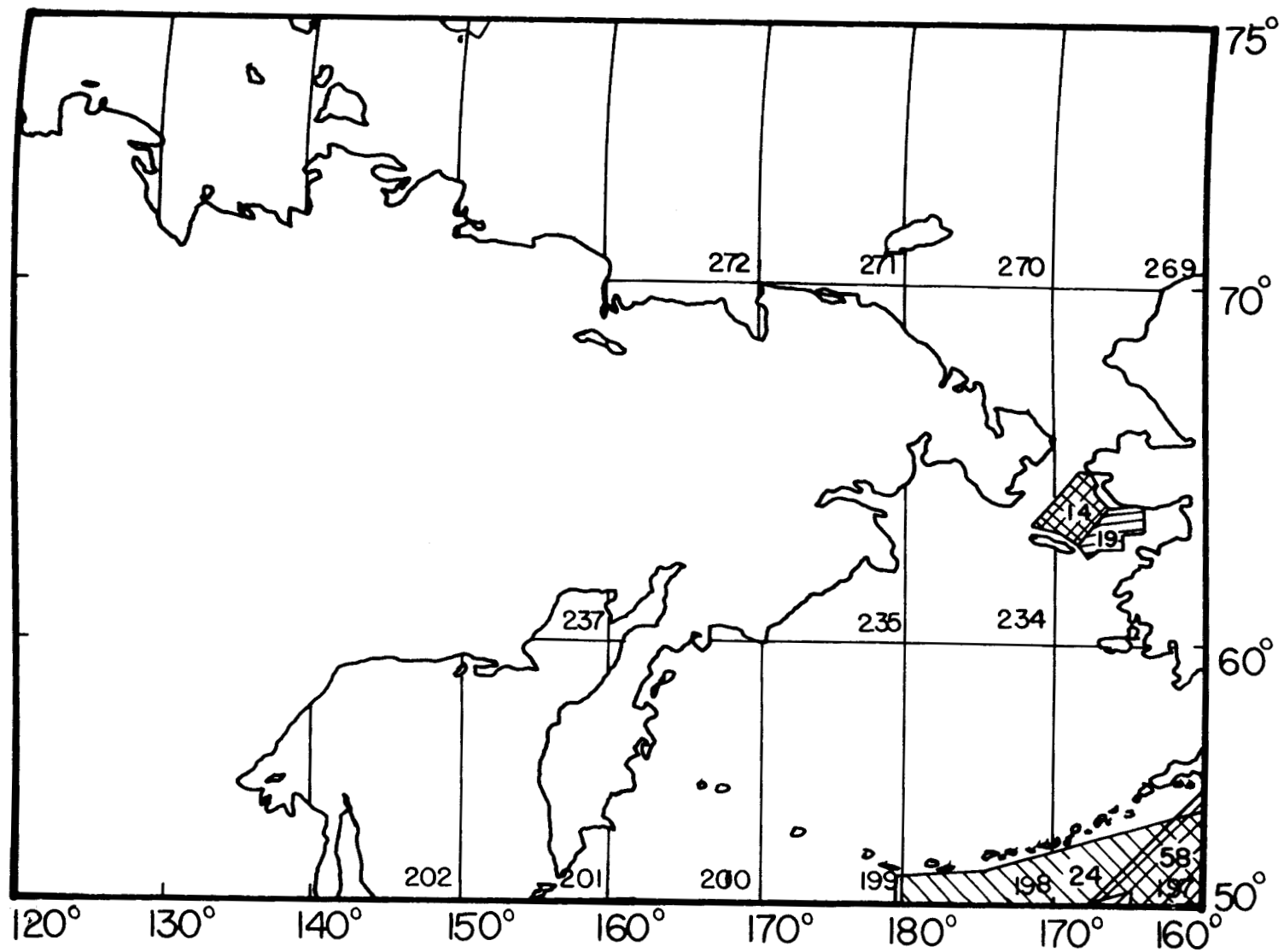
LIST OF PROJECTS IN AREA 19

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00014	M*	M	M	M	
00019	M			M	M
00024	T*	T	T	T	
00058	M	M	M	M	M

*M = Microfilm T = Magnetic Tape

6-72

II-19.1

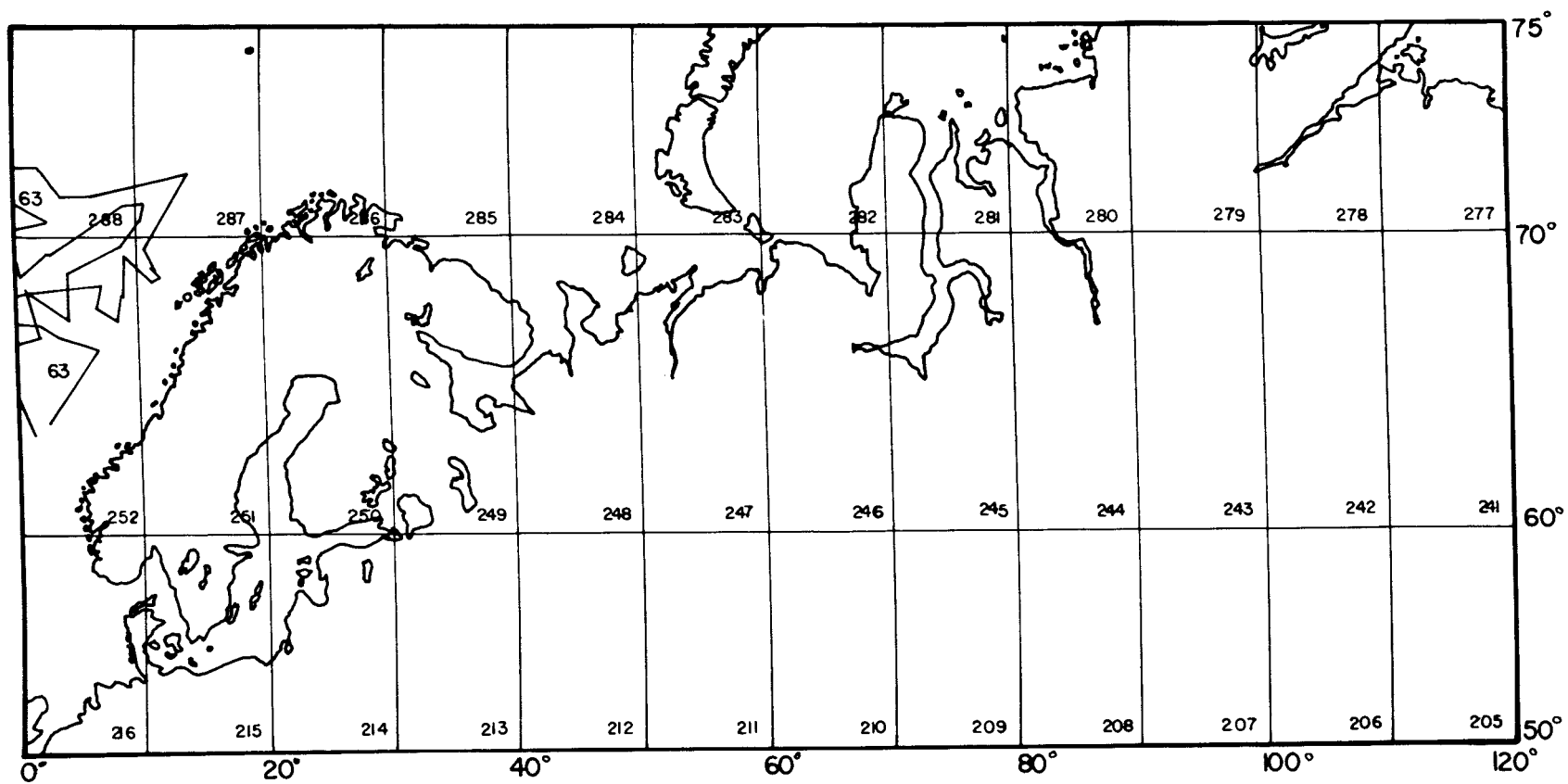


AREA 19 CHART I

LIST OF PROJECTS IN AREA 20

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00063	M*	M	M		M

*M = Microfilm T = Magnetic Tape



SECTION III

FILE NUMBER IDENTIFICATION LIST

<u>FILE NUMBER</u>	<u>PROJECT</u>	<u>*DATA AVAILABLE FROM NGDC</u>	<u>See SECTION IV page</u>
00001	Gulf of Maine, 1962 OPR 376, EXPLORER	B S	2
00002	Int'l Indian Ocean Exped. OPR 442, PIONEER, 1964	B G M S	3-6
00003	Straits of Florida, 1965 OPR 447, HYDROGRAPHER	B S	7
00004	Gulf of Mexico, DeSoto Canyon OPR 434, HYDROGRAPHER, 1965	B S	8
00005	West Coast Upper Mantle OPR 454, PIONEER, SURVEYOR 1965, 1966	B M S	9-10
00006	Eclipse Cruise, 1966 OPR 470, OCEANOGRAPHER	B G M S	11-12
00007	Gulf of Maine Survey, 1967 AMC-14-67, DISCOVERER	B G M	13
00008	Blake Plateau, 1967 AMC-11-67, DISCOVERER	B G M	14
00009	Global Cruise, 1967 OPR 476, OCEANOGRAPHER	B G M S	15-29
00010	Atlantic Crossing, 1968 AMC-1-68, DISCOVERER	B G M	30
00011	African Margin, 1968 AMC-2-68, DISCOVERER	B G M	31
00012	Trans-Atlantic Geo. Traverse Cap Blanc to Miami, 1968 OPR 461, DISCOVERER	B G M	32
00013	Norfolk to Virgin Is. Puerto Rico to Miami, 1968 OPR 425, WHITING	B M	33
00014	Bering Sea-Norton Sound, 1968 OPR 483, SURVEYOR	B G M	34-35

*B-Bathymetry G-Gravity M-Magnetics S-Seismic

<u>FILE NUMBER</u>	<u>PROJECT</u>	<u>DATA AVAILABLE FROM NGDC</u>	<u>See SECTION IV page</u>
00015	Miami-Atex-Gulfport, 1969 OPR 425, DISCOVERER	B G M	36
00016	Miami-Gulfport-Barbados, 1969 Panama-Gulfport-Barbados, 1969 OPR 425, MT. MITCHELL, OCEANOGRAPHER	B G M	37-38
00017	Gulf of Alaska, 1964 SP-5-64, SURVEYOR	B S	39
00018	Gulf of Mexico-DeSoto Canyon OPR 434, HYDROGRAPHER, 1963	B S	40-41
00019	Bering Sea-Norton Sound, 1969 OPR 483, SURVEYOR	G S	42-43
00020	Lesser Antilles Island Arc OPR 484, DISCOVERER	B G M S	44-45
00021	Line Islands Exped., 1967 SP-2-67, SURVEYOR	B G M	46
00022	East Pacific Rise, 1970 RP-1-70, OCEANOGRAPHER	B G M	47
00023	East Coast Upper Mantle, 1967 OPR 461, DISCOVERER	B G M	48
00024	Pacific Sea Map, 1961-1966 OPR 421, PIONEER & SURVEYOR	B G M	49
00025	Research and Training Cruises Duke University, RV EASTWARD 1964, 1965	B	50
00026	Western Approaches Gibraltar British Hydrographic Office HMS VIDAL & OWEN, 1964, 1965	B G	51
00027	NE Atlantic-Rockall Bank, 1969 British Hydro. Survey 266141 HMS HECLA	B	52
00028	N. Atlantic Deep Scan Survey Woods Hole Oceanographic Inst. ATLANTIC II, Cruise 11, 1964	B S	53-56

<u>FILE NUMBER</u>	<u>PROJECT</u>	<u>DATA AVAILABLE FROM NGDC</u>	<u>See SECTION IV page</u>
00029	Woods Hole-Bermuda-Puerto Rico CHAIN Cruise 57, 1966 WHOI	B S	57-59
00030	South China Sea, 1968 RUTH ANN & SANTA MARIA NAVOCEANO	S	60
00031	Gulf of Maine, 1966 SILAS BENT NAVOCEANO	B M S	61
00032	South China Sea, 1969 F. V. HUNT NAVOCEANO	S	62
00033	Sea of Japan, 1967, 1968 F. V. HUNT NAVOCEANO	S	63
00034	Continental Margin Survey RV GOSNOLD, 1963, 1964, 1966 WHOI USGS	S	64
00035	Gulf of Mexico, 1969 USNS KANE NAVOCEANO	B S	65
00036	Western Caribbean Task Area 19 USNS KANE NAVOCEANO	B S	66
00037	Gulf of Mexico, 1968 RV SAN PABLO NAVOCEANO	S	67
00038	Puerto Rican Trench, 1962 RV CHAIN Cruise 34 WHOI	S	68-69
00039	Int'l Indian Ocean Exped., 1964 RV CHAIN Cruise 43 WHOI	B S	70-74
00040	Laurentian Bank-Georges Bank to Cape Hatteras, 1967 CHAIN Cruises 70 7 73 WHOI	M S	75
00041	East China and Yellow Seas, 1968 F. V. HUNT NAVOCEANO	S	76
00042	Circe Exped. Legs 8 & 9, 1968 RV ARGO Scripps Institution	B M S	77
00043	Gulf of Mexico, 1964, 1967-70 RV ALAMINOS Texas A & M	S	78-80

<u>FILE NUMBER</u>	<u>PROJECT</u>	<u>DATA AVAILABLE FROM NGDC</u>	<u>See SECTION IV page</u>
00044	Perth Basin-West Australia VEMA & DIAMANTINA, 1960-1963 Mundaring Geophysical Observatory	S	81
00045	Western Caribbean, 1968 RV SAN PABLO NAVOCEANO	S	82
00046	Naples-Istanbul-Black Sea, 1969 B ATLANTIS II Cruise 49 WHOI		83
00047	Kayak Expedition, 1964 Gulf of Alaska RV OCONOSTOTA Scripps Inst.	S	84
00048	North Atlantic, 1968 USNS KANE Cruise 9 NAVOCEANO	B M S	85
00049	Hawaiian Survey, 1967 SILAS BENT & F. V. HUNT NAVOCEANO	B S	86-87
00050	Western Mediterranean, 1966-68 CALYPSO, JEAN CHARCOT, FRANCOIS BLANE Monaco Inst. for Oceanography	S	88
00051	Mendocino Fault Investigation SP-5-68, OCEANOGRAPHER 1968	B G M	89
00052	Venezuelan Shelf Study, 1969 RP-4-69, DISCOVERER	B G M S	90
00053	Washington Continental Shelf T. G. THOMPSON, OCEANEER, ONAR University of Washington 1966, 1967	S	91-93
00054	Panama Fracture Zone, 1969 RP-1-69, OCEANOGRAPHER	B G M	94
00055	Lesser Antilles, 1970 RP-6-70, DISCOVERER	B G M	95
00056	Panama-Gulfport-Barbados-Panama OPR 425, RAINIER 1969	B M	96
00057	Trans-Pacific Magnetic Study RP-8-70, OCEANOGRAPHER	B G M	97

<u>FILE NUMBER</u>	<u>PROJECT</u>	<u>DATA AVAILABLE FROM NGDC</u>	<u>See SECTION IV page</u>
00058	NE Pacific Geophysical Study RP-1-71, OCEANOGRAPHER 1971	B G M S	98
00059	Sand Inventory Program, 1970 Continental Shelf DelMarVa. CERC Corps of Engineers	S	99-100
00060	Norfolk-Bermuda-Puerto Rico OPR 425, MT. MITCHELL, 1971	B	101
00061	Western Mediterranean, 1970 USCGC ROCKAWAY Smithsonian Institution	B	102-103
00062	Calif. Continental Borderland 1963, 1965, 1967 SMITH DAVIS BAIRD Scripps Institution	S	104-105
00063	Marine Geophysical Survey, 1966 North Atlantic Task Area 1 ARTIC SEAL ATLANTIC SEAL Texas Instruments-NAVOCEANO	B M S	106
00064	Marine Geophysical Survey, 1967 North Atlantic Task Area 2 ARTIC SEAL ATLANTIC SEAL Texas Instruments-NAVOCEANO	B M S	107
00065	Marine Geophysical Survey, 1967 North Atlantic Task Area ARTIC SEAL ATLANTIC SEAL Texas Instruments-NAVOCEANO	B M S	108
00066	Marine Geophysical Survey, 1968 North Atlantic Task Area 4 ARTIC SEAL ATLANTIC SEAL Texas Instruments-NAVOCEANO	B M S	109
00067	Marine Geophysical Survey, 1965 North Atlantic Task Area 5 ARTIC SEAL ATLANTIC SEAL Texas Instruments-NAVOCEANO	B M S	110
0068	Marine Geophysical Survey, 1968 North Atlantic Task Area 7 ARTIC SEAL ATLANTIC SEAL Texas Instruments-NAVOCEANO	B M S	111

<u>FILE NUMBER</u>	<u>PROJECT</u>	<u>DATA AVAILABLE FROM NGDC</u>	<u>See SECTION IV page</u>
00069	South Pacific Traverse, 1971 RP-7-71, SURVEYOR	B G M	112
00070	Atlantic Fracture Zone, 1970 DISCOVERER	B G M	113
00071	OPR 425, Tracklines, 1969 BOMEX stations to Barbados DISCOVERER OCEANOGRAPHER RAINIER	B G M	114
00072	Cape Verde Is.-Canary Is., 1968 USNS GIBBS Project HL267	B M	115
00073	Canary Basin, 1970 USNS GIBBS	B M	116
00074	Cocos Ridge to Cent. California OPR 394, OCEANOGRAPHER, 1969	B M	117
00075	Panama Basin, 1970 RP-2-70, OCEANOGRAPHER	B G M	118
00076	East Coast Gravity	G	119
00077	Gulf Coast Gravity	G	120
00078	West Coast Gravity	G	121
00079	Marine Geophysical Survey, 1967 Mediterranean Sea Task Area 6 ARTIC SEAL ATLANTIC SEAL Texas Instruments-NAVOCEANO	B M S	122
00080	USGS IDOE 1971 Leg 1 Bay of Campeche UNITED GEO I	S	123
00081	USGS IDOE 1971 Leg 2 East Margin Yucatan Peninsula UNITED GEO I	S	124
00082	USGS IDOE 1971 Leg 3 Eastern Greater Antilles UNITED GEO I	S	125
00083	USGS IDOE 1971 Leg 4 Venezuelan Continental Borderland UNITED GEO I	S	126

<u>FILE</u> <u>NUMBER</u>	<u>PROJECT</u>	<u>DATA</u> <u>AVAILABLE</u> <u>FROM NGDC</u>	<u>See</u> <u>SECTION IV</u> <u>page</u>
00084	USGS IDOE 1971 Leg 5 Continental Margin Liberia UNITED GEO I	B	127
00085	USGS IDOE 1971 Leg 6 Liberia - Puerto Rico Traverse UNITED GEO I	B	128

SECTION IV

PROJECT SKETCHES AND DATA SHEETS

DESCRIPTION:

This section presents a detailed listing of the types and formats of data available from the National Geophysical Data Center along with an area sketch of each project. The categories listed represent the major data products available for each data parameter. The data products noted as available can be obtained in two primary formats, microfilm and magnetic tapes.

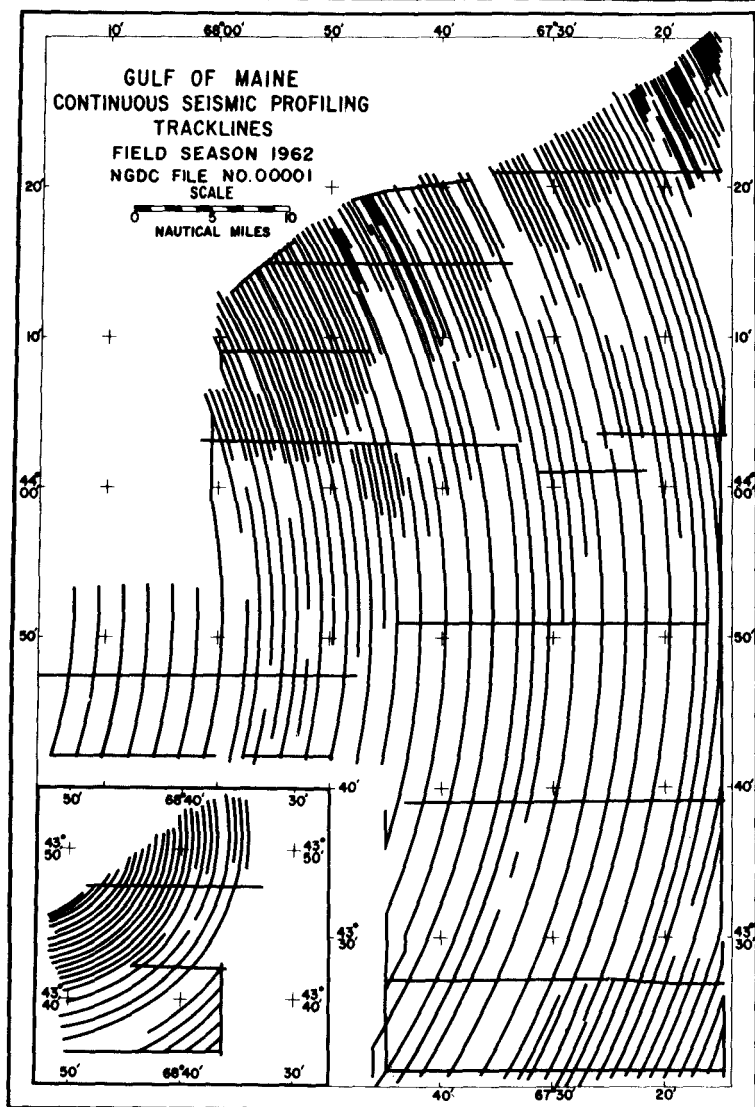
DATA LISTINGS - Data listings consist of printed digital data values listed usually in chronological order. Data values can be either corrected or uncorrected with corrective factors accompanying the data.

ORIGINAL RECORDS - Original records consist of microfilm copies of source records such as echograms, seismic profiles, gravity or magnetic analog recordings, navigational records, deck logs or other similar record.

DATA PLOTS - Data plots are similar to data listings in that digital data are used but differ in that the data values are plotted with respect to location rather than in time sequence. Plots can be of two types, hand or machine constructed, and corrected or interpreted data are commonly employed.

OTHER - On occasion processed data are received at the National Geophysical Data Center in the form of bound or unbound publications, large size plots and maps or in some other format which either through the lack of sufficient copies or through their physical characteristics preclude their dissemination in their original form. When possible these products are microfilmed and disseminated as film copies or are reproduced by xerographic methods and disseminated as paper copies. In the event that circumstances prohibit their dissemination by the National Geophysical Data Center information on obtaining copies from other sources will be included. The availability of data parameters as publications or maps is indicated by the insertion of the letter P for publications and M for maps or plots.

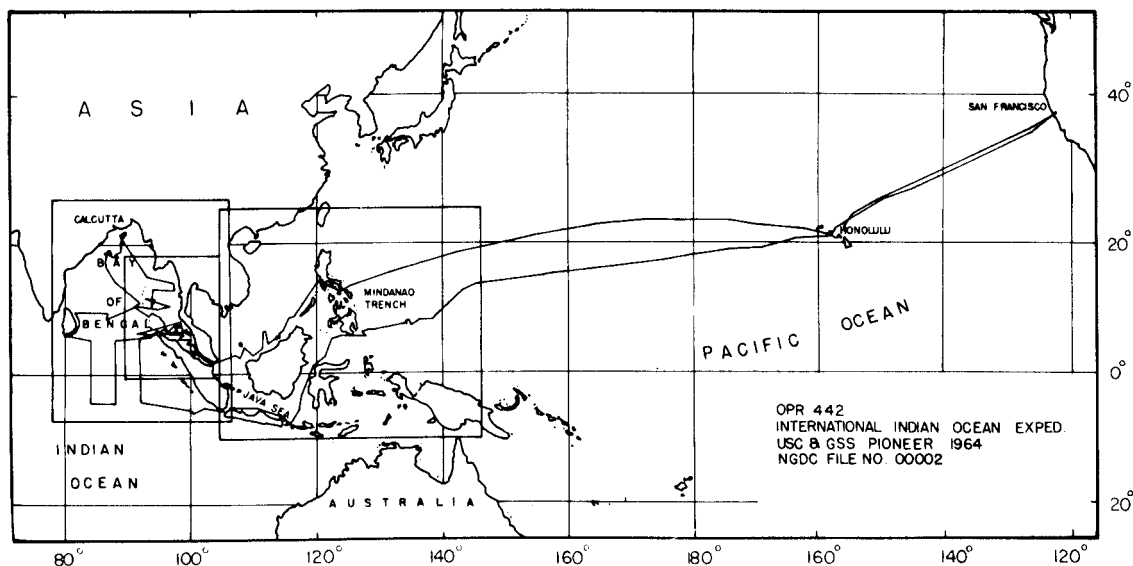
Though not separately listed, sufficient documentation, description, navigational or other information are included with each data parameter to ensure its practical application. Also, it should be noted that these data listings show only those data parameters available from the National Geophysical Data Center and do not preclude the existence of additional marine geophysical data collected during the projects described and available elsewhere.



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			P, M
Gravity					
Magnetic					P, M
Seismic		X			P
Remarks:					

PROJECT: OPR 376 Gulf of Maine
Vessel: OSS EXPLORER
Agency: US Coast and Geodetic Survey

Date: Aug.-Sept., 1962
NGDC File No. 00001

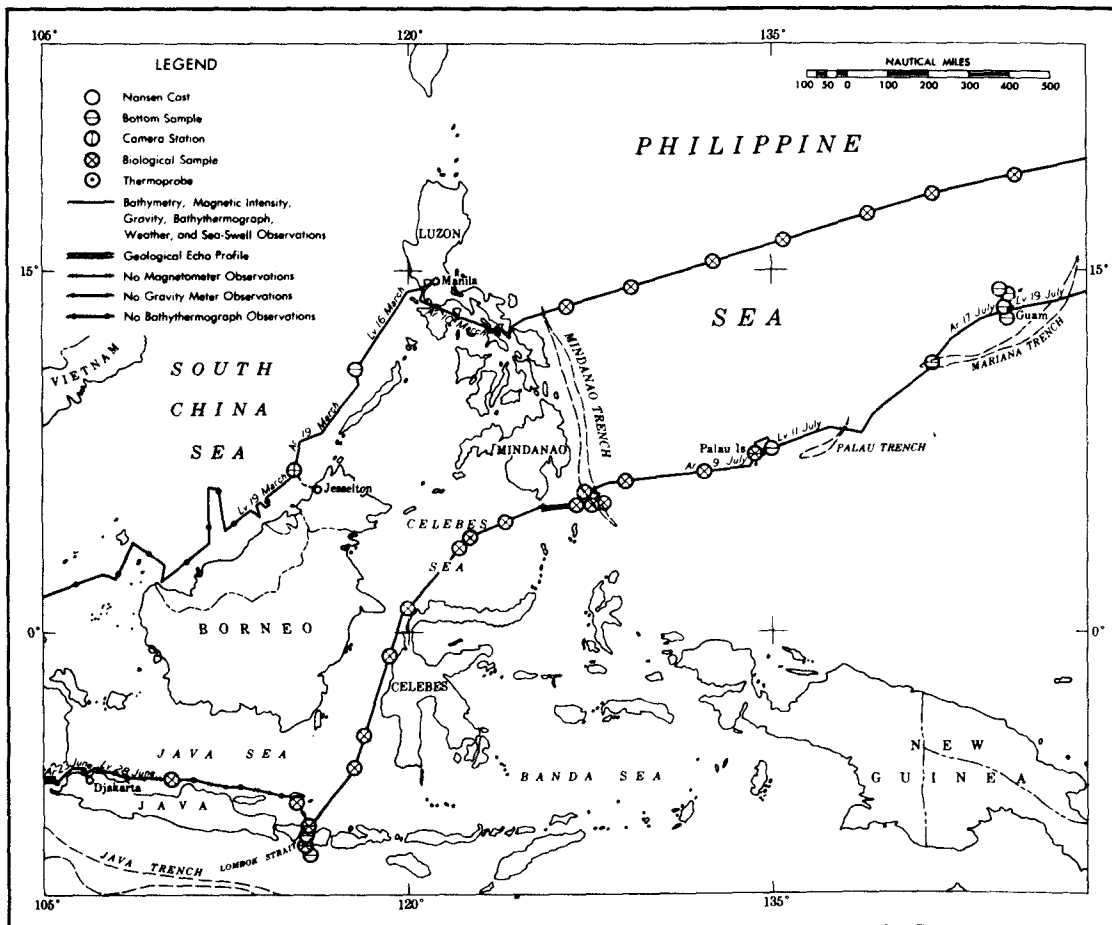


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X		X	P
Gravity	X	X		X	P
Magnetic	X	X		X	P
Seismic		X			

Remarks:

PROJECT: Int'l Indian Ocean Expedition
Vessel OSS PIONEER, OPR 442
Agency US Coast and Geodetic Survey

Date: Feb.-Aug., 1964
NGDC File No. 00002



—USCGS ship *Pioneer* observations in South China, Java, Celebes, and Philippine Seas, March, June-July 1964.

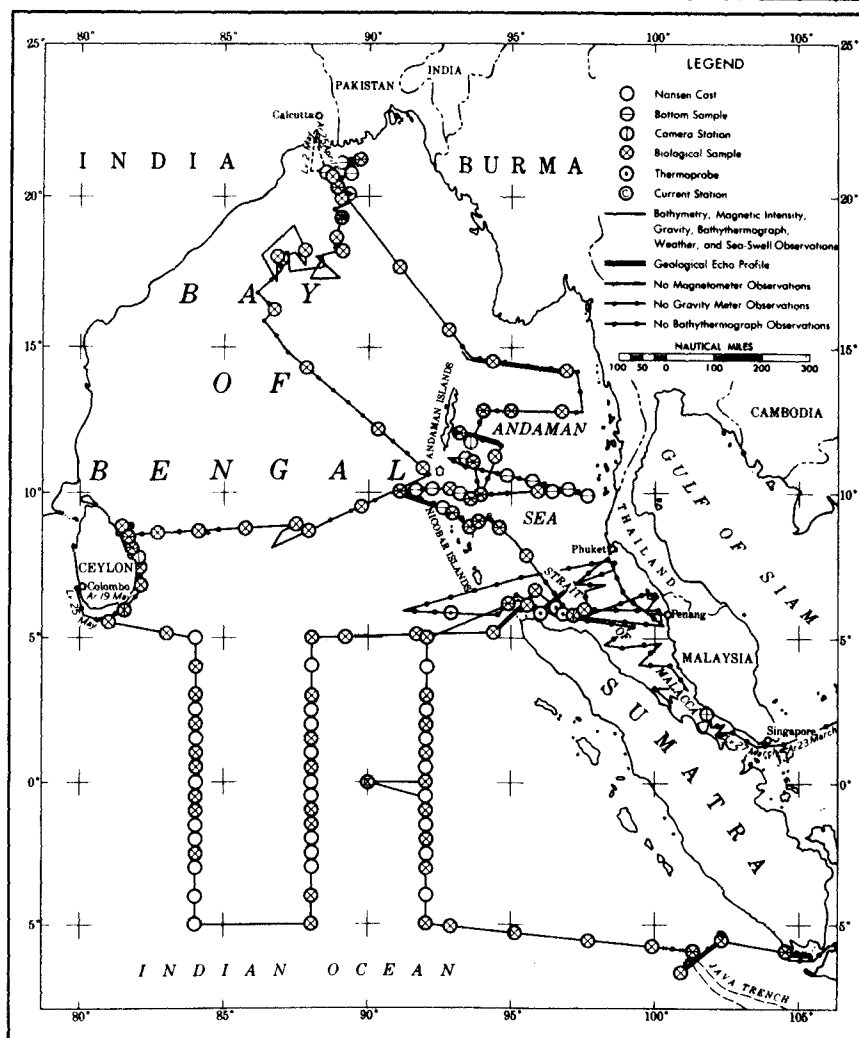
NGDC FILE NO.00002

AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X		X	P
Gravity	X	X		X	P
Magnetic	X	X		X	P
Seismic		X			

Remarks:

PROJECT: Int'l Indian Ocean Expedition
Vessel OSS PIONEER
Agency US Coast and Geodetic Survey

Date: Feb.-Aug., 1964
NGDC File No. 00002



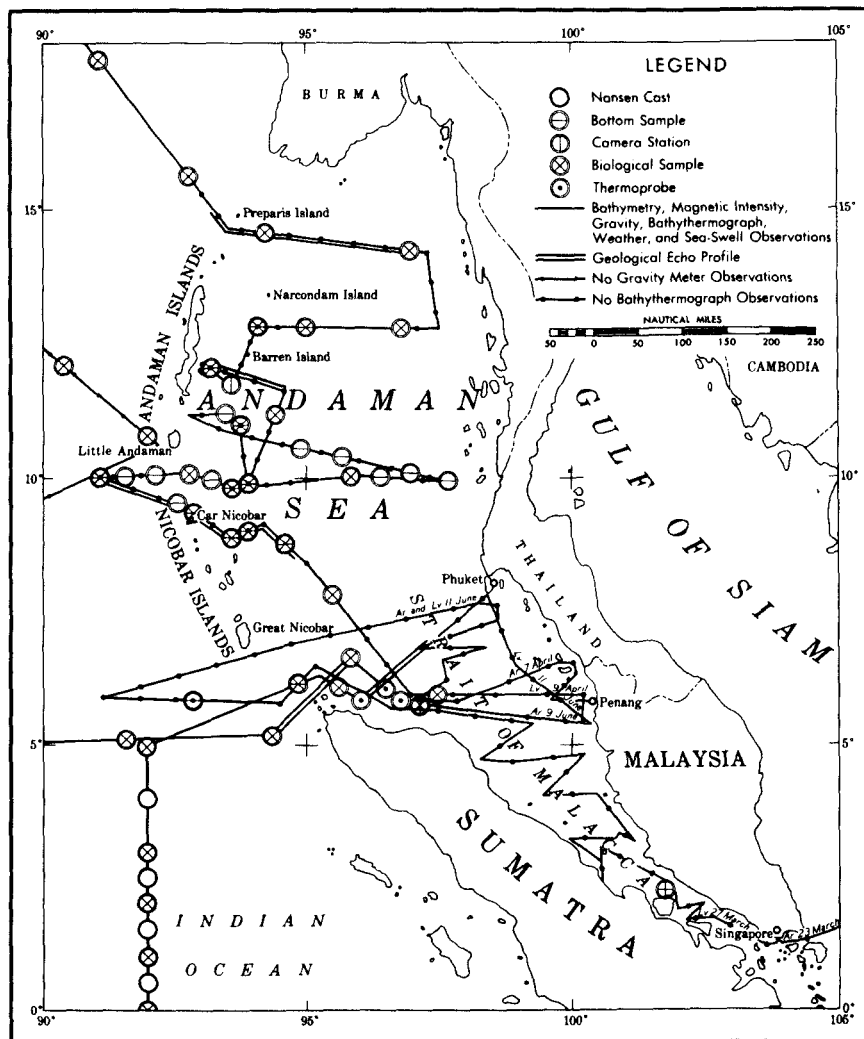
-USC&GS ship *Pioneer* observations in Bay of Bengal and northeast Indian Ocean, May-June 1964.

NGDC FILE NO. 00002

AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X		X	P
Gravity	X	X		X	P
Magnetic	X	X		X	P
Seismic		X			

Remarks:

PROJECT: Int'l Indian Ocean Expedition Date: Feb.-Aug., 1964
Vessel OSS PIONEER
Agency US Coast and Geodetic Survey NGDC File No. 00002

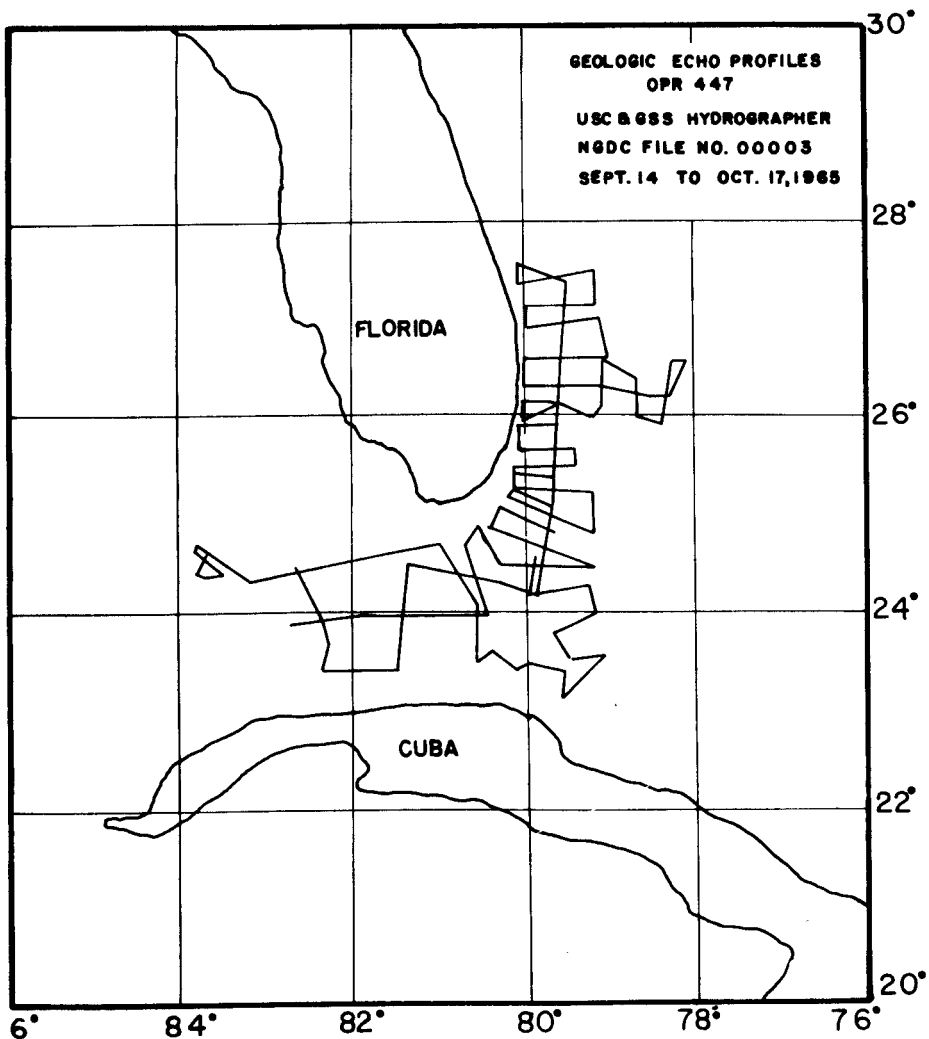


—USCGS ship *Pioneer* observations in Andaman Sea and Strait of Malacca, March—June 1964.

AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X		X	P
Gravity	X	X		X	P
Magnetic	X	X		X	P
Seismic		X			

Remarks:

PROJECT: Int'l Indian Ocean Expedition Date: Feb.-Aug., 1964
 Vessel OSS PIONEER
 Agency US Coast and Geodetic Survey NGDC File No. 00002



AVAILABLE DATA:	<u>Data</u> <u>listing</u>	<u>Original</u> <u>records</u>	<u>Data</u> <u>plot</u>	<u>Magnetic</u> <u>tape</u>	<u>Other</u>
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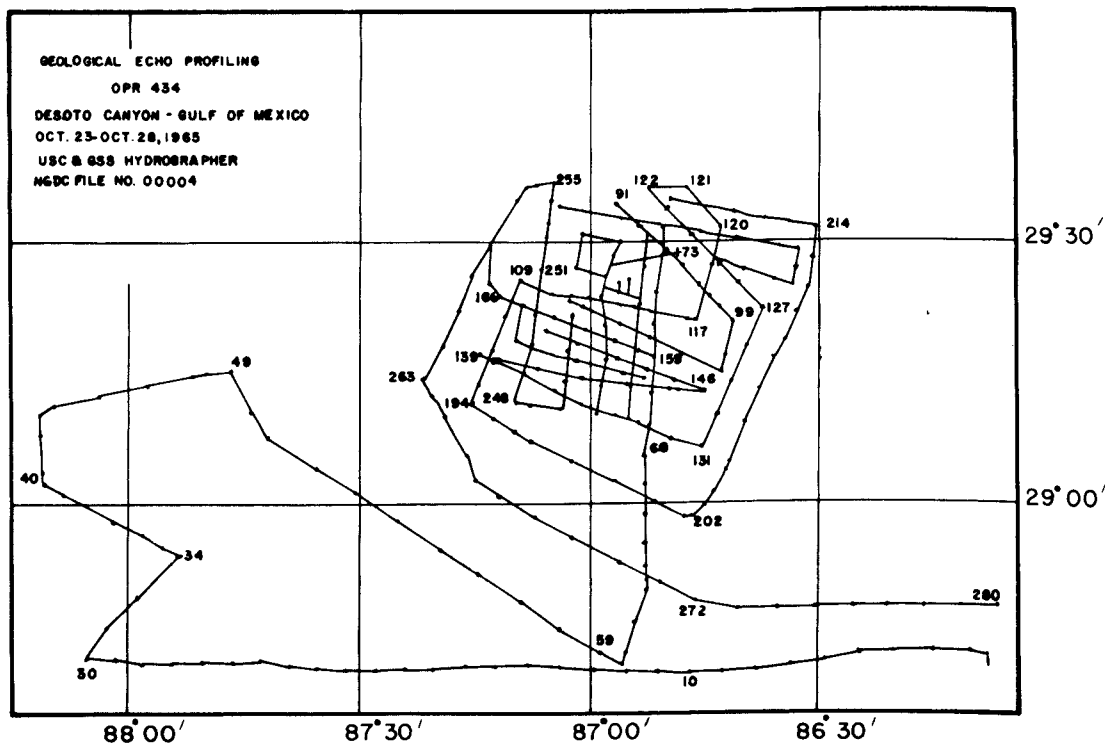
Bathymetry
Gravity
Magnetic
Seismic

X

Remarks:

PROJECT: OPR 447 Straits of Florida
Vessel USC&GSS HYDROGRAPHER
Agency US Coast and Geodetic Survey

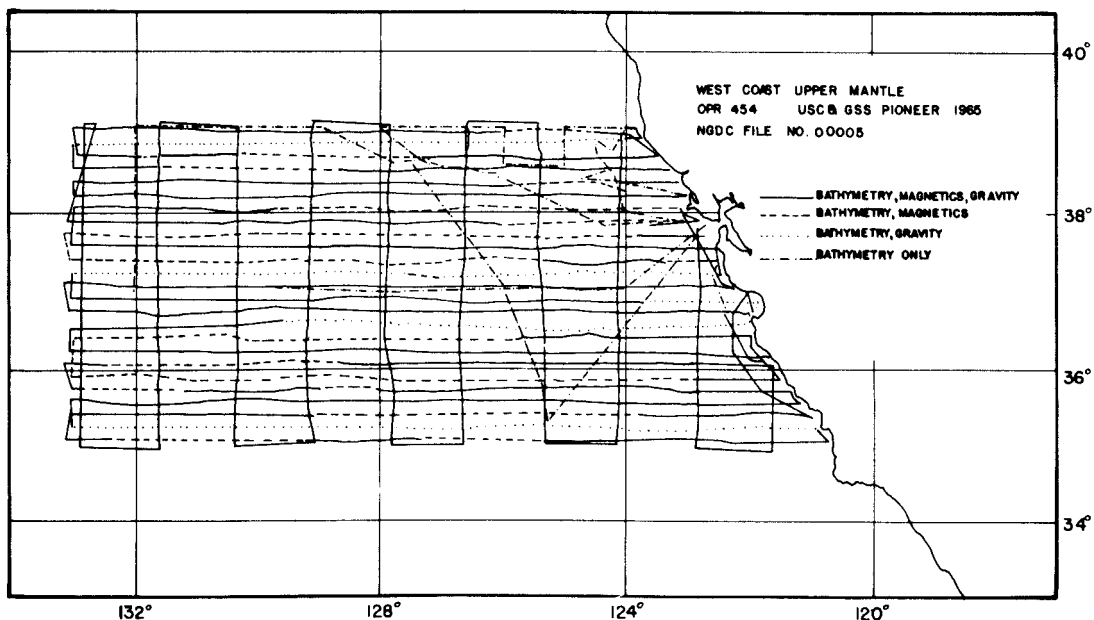
Date: Sept.-Oct., 1965
NGDC File No. 00003



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			
Gravity					
Magnetic					
Seismic		X			
Remarks:					

PROJECT: Gulf of Mexico-DeSoto Canyon
 Vessel USC&GSS HYDROGRAPHER OPR 434
 Agency US Coast and Geodetic Survey

Date: October, 1965
 NGDC File No. 00004

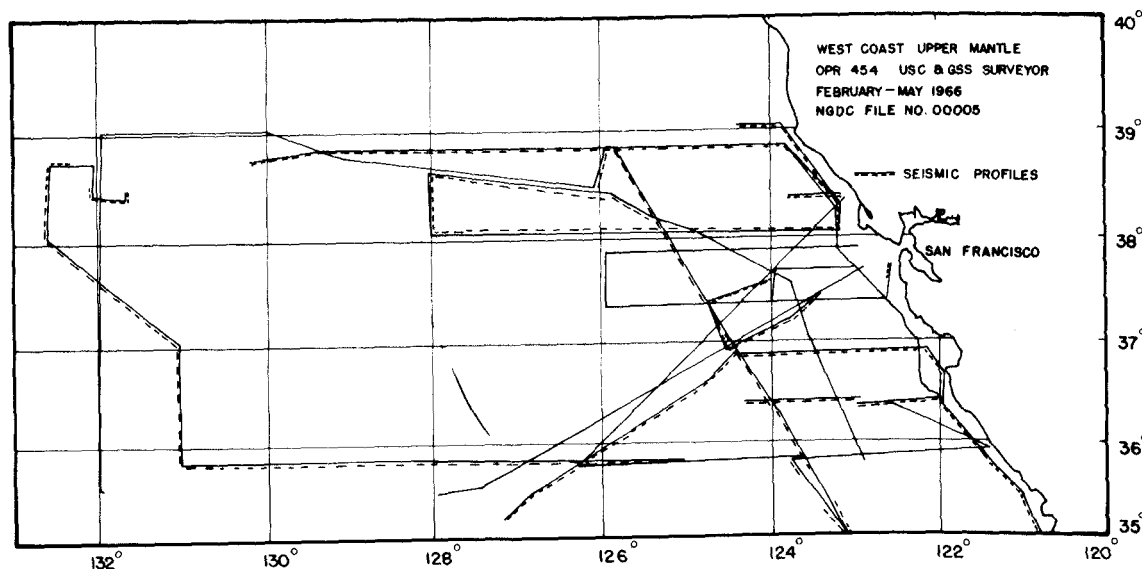


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X		X	M
Gravity	X			X	M
Magnetic	X	X		X	M
Seismic		X			

Remarks:

PROJECT: West Coast Upper Mantle
Vessel OSS PIONEER OPR 454
Agency US Coast and Geodetic Survey

Date: July-Oct., 1965
NGDC File No. 00005

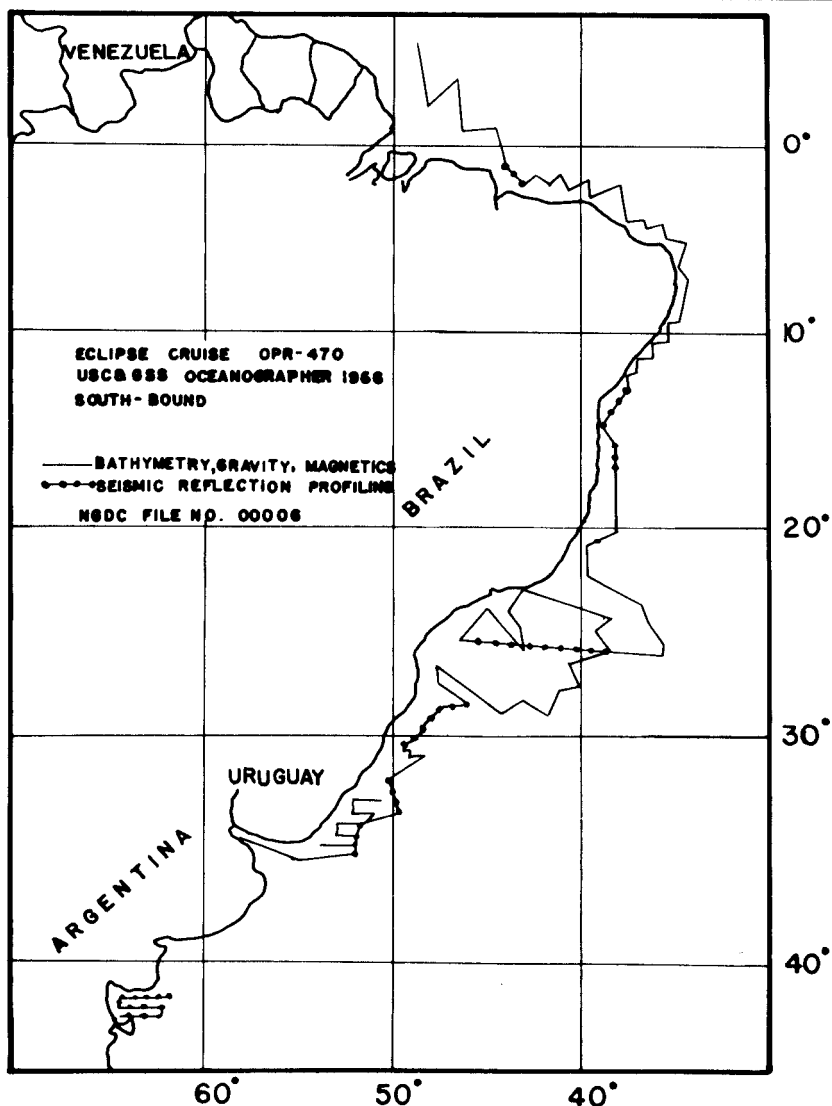


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X		X	M
Gravity	X			X	M
Magnetic	X			X	M
Seismic		X			

Remarks:

PROJECT: West Coast Upper Mantle
Vessel: OSS SURVEYOR OPR 454
Agency: US Coast and Geodetic Survey

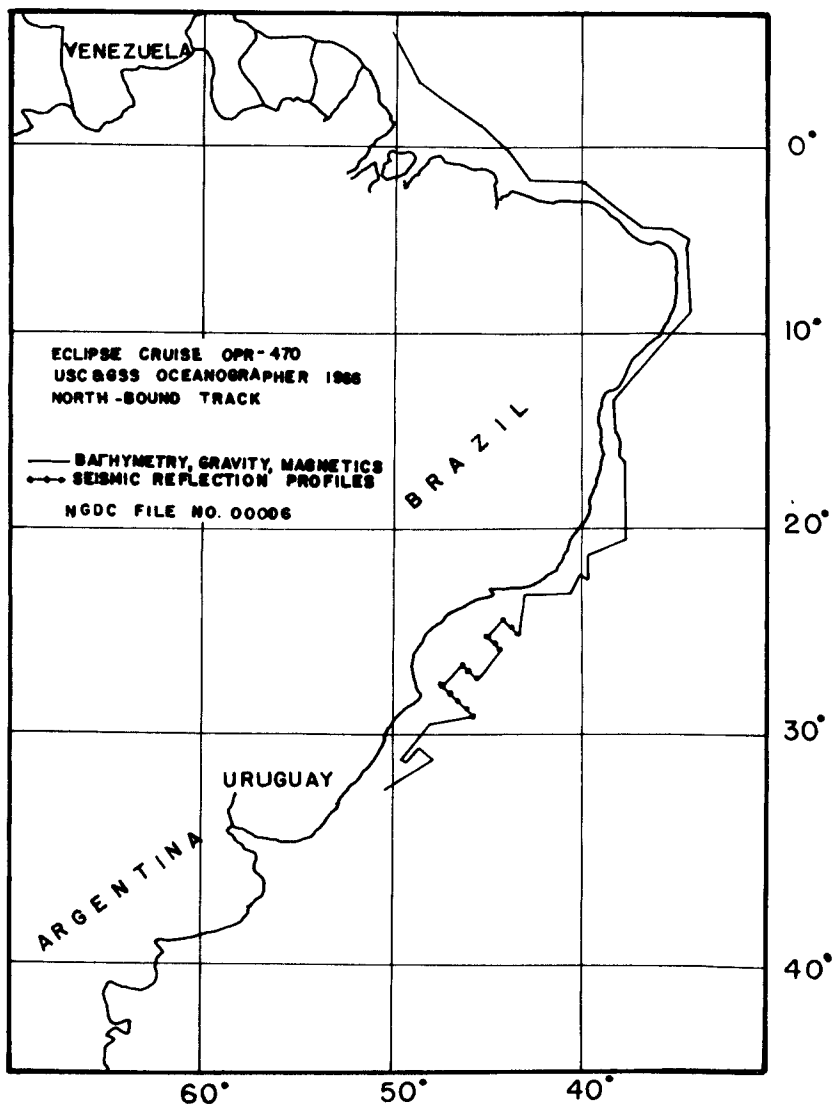
Date: April-May, 1966
NGDC File No. 00005



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X			
Gravity	X	X			
Magnetic	X	X			
Seismic		X			

Remarks:

PROJECT: OPR 470 Eclipse Cruise Date: Oct.-Dec., 1966
Vessel OSS OCEANOGRAPHER
Agency Environmental Science Services Administration. NGDC File No. 00006



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X			
Gravity	X	X			
Magnetic	X	X			
Seismic		X			

Remarks:

PROJECT: OPR 470 Eclipse Cruise

Date: Oct.-Dec., 1966

Vessel OSS OCEANOGRAPHER

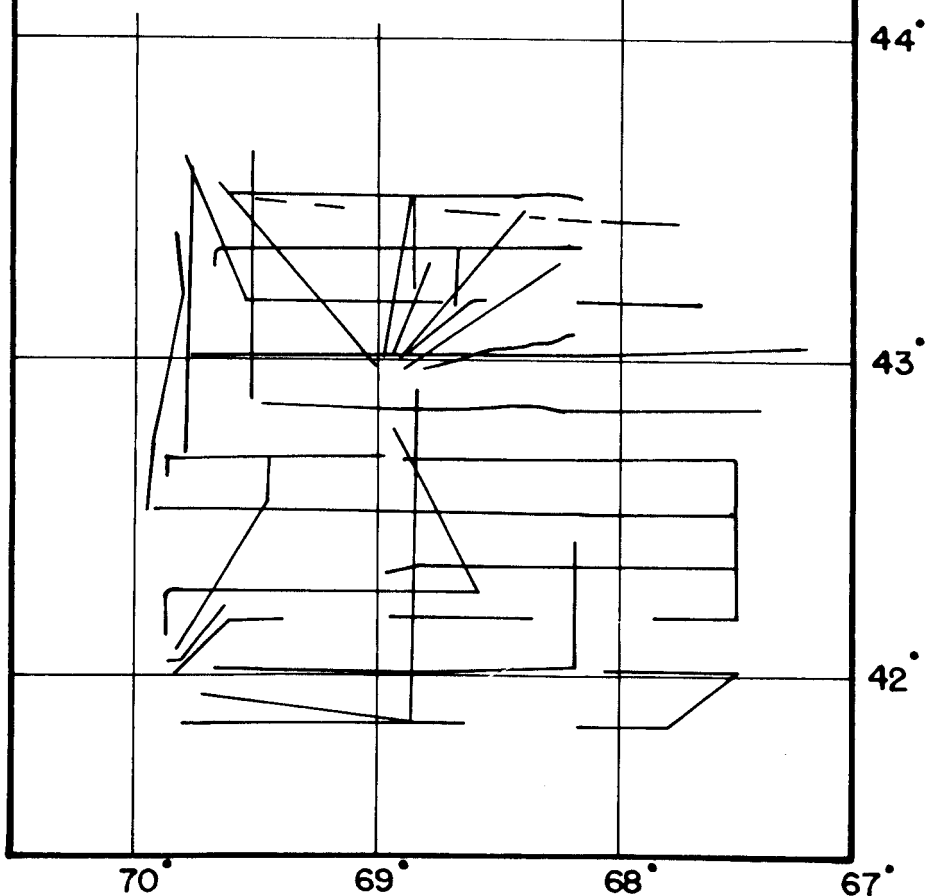
Agency Environmental Science Services

NGDC File No. 00006

Administration.

GULF OF MAINE SURVEY
USC & ESS DISCOVERER, 1967

NGDC FILE NO. 00007



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			P
Gravity	X	X	X		P
Magnetic	X		X		P
Seismic					

Remarks:

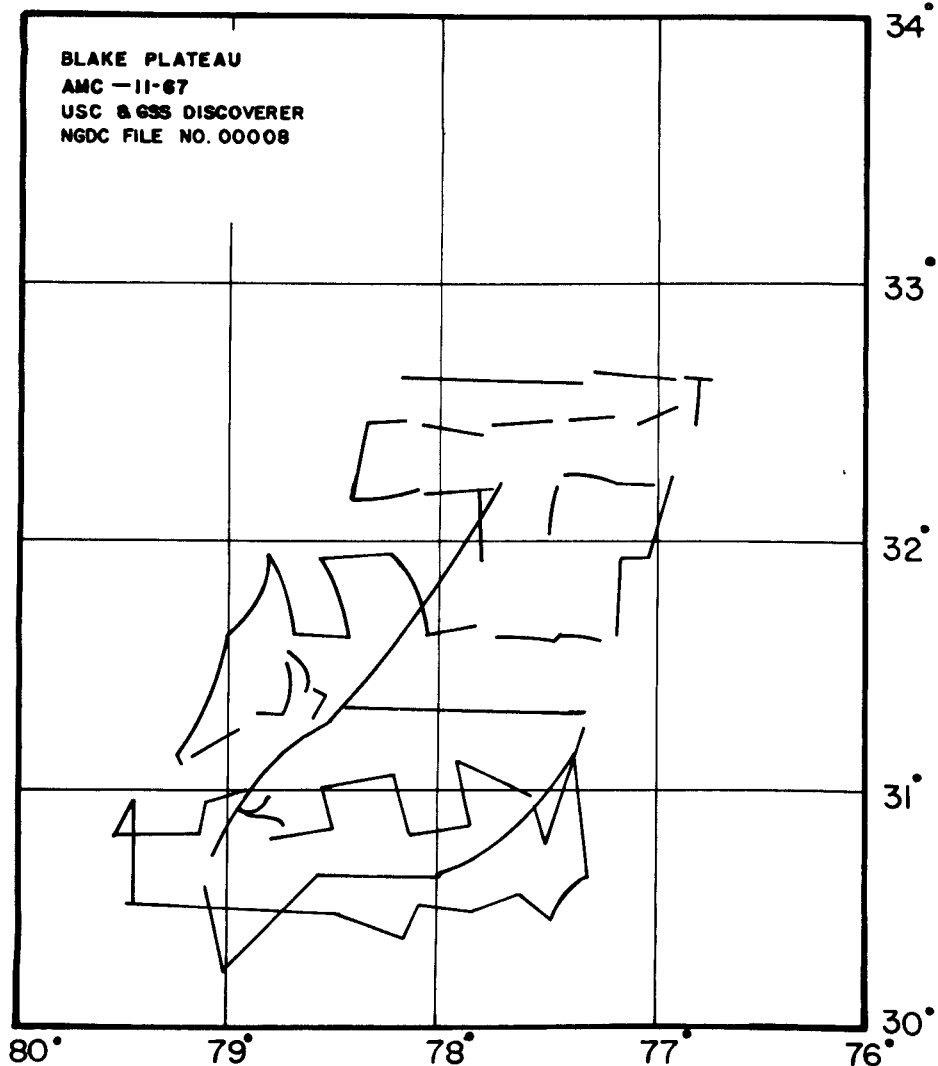
PROJECT: AMC-14-67 Gulf of Maine

Date: September, 1967

Vessel OSS DISCOVERER

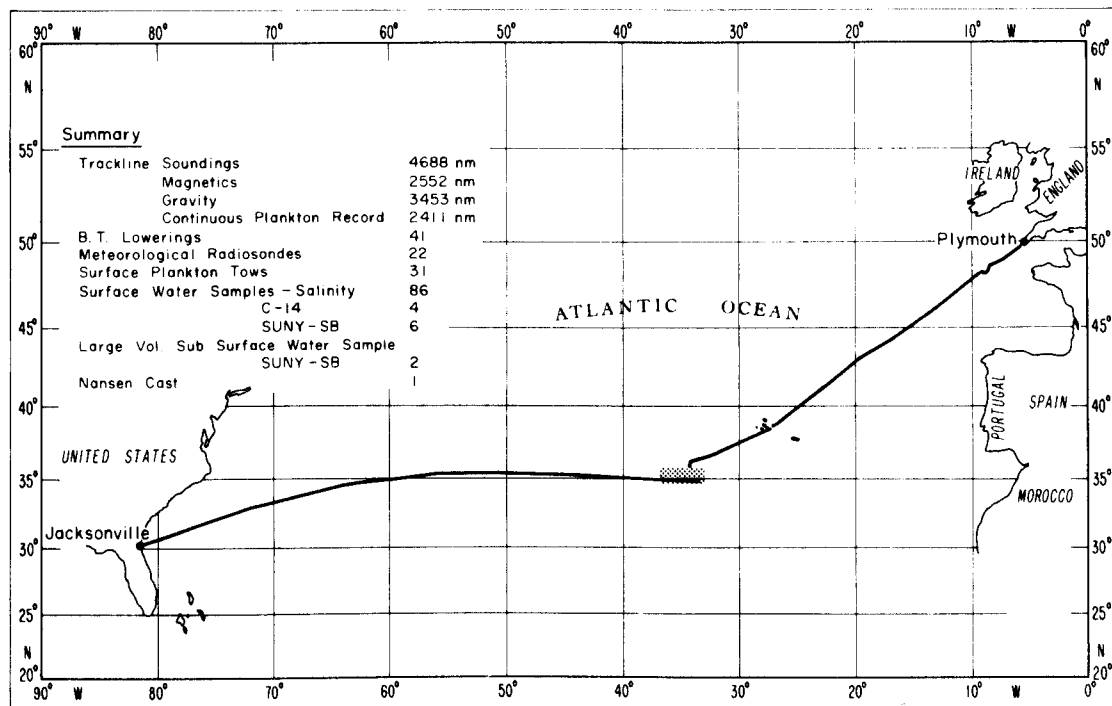
Agency Environmental Science Services Administration.

NGDC File No. 00007



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			
Gravity		X			
Magnetic		X			
Seismic					
Remarks:					
PROJECT: AMC-11-67 Blake Plateau			Date: October, 1967		
Vessel OSS DISCOVERER					
Agency Environmental Science Services Administration.			NGDC File No. 00008		

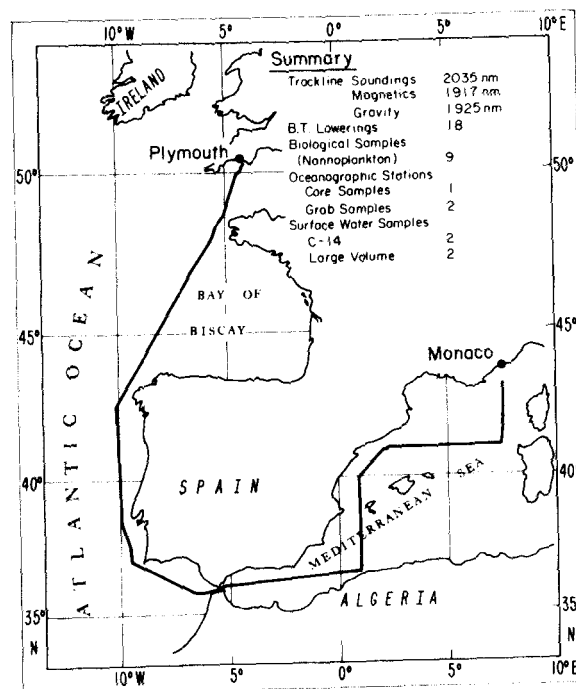
Leg 1 (A-Day)
Jacksonville, Florida, to Plymouth, England



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X	X		P
Gravity	X	X	X		P
Magnetic	X	X	X		P
Seismic					

Remarks:

PROJECT: OPR 476 Global Cruise (A Day) **Date:** 31 Mar.-18 April 1967
Vessel: OSS OCEANOGRAPHER
Agency: Environmental Science Services Administration **NGDC File No.** 00009

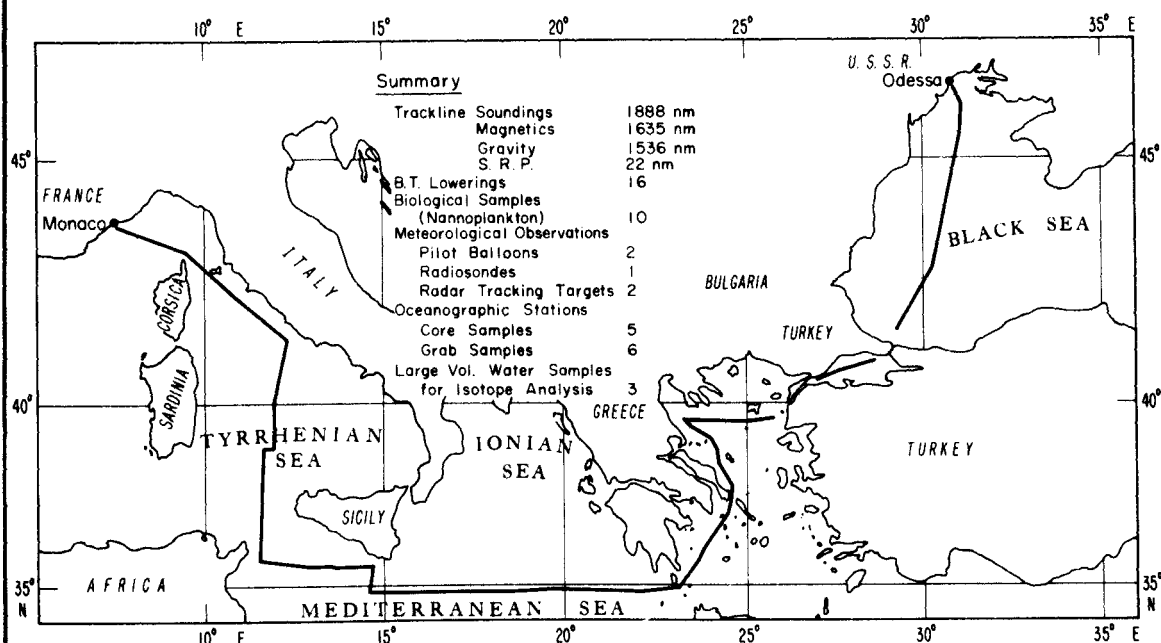


Leg 2 (B-Day)
Plymouth, England, to Monaco

AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			P
Gravity		X			P
Magnetic		X			P
Seismic					

Remarks:

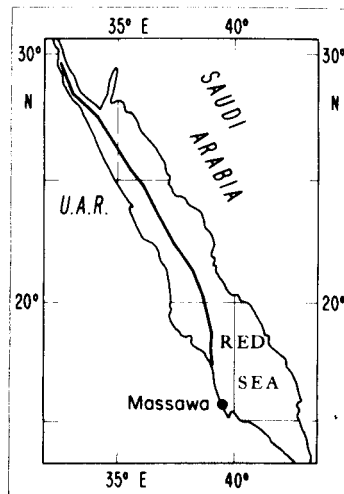
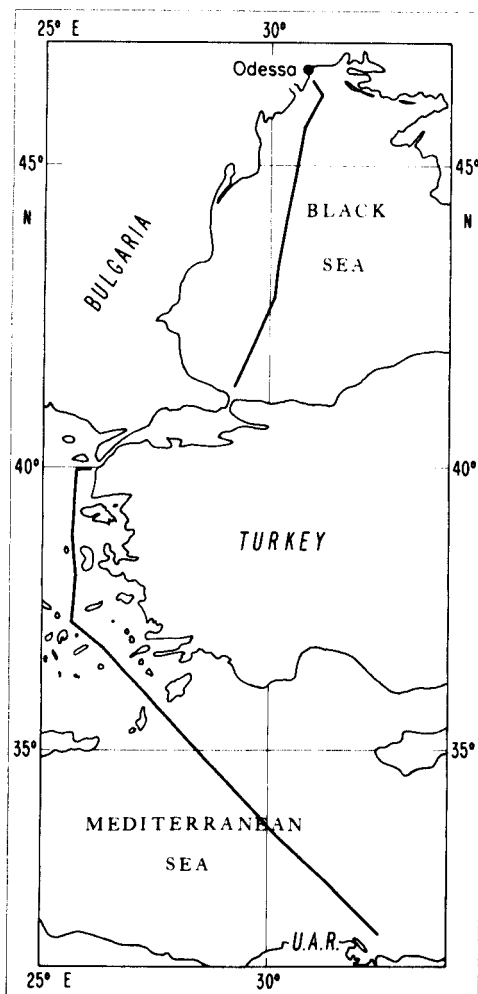
PROJECT: OPR 476 Global Cruise (B Day) **Date:** April 24-30, 1967
Vessel OSS OCEANOGRAPHER
Agency Environmental Science Services Administration. **NGDC File No.** 00009



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X			P
Gravity	X	X			P
Magnetic	X	X			P
Seismic		X			P

Remarks:

PROJECT: OPR 476 Global Cruise (C Day) **Date:** May 4-11, 1967
Vessel OSS OCEANOGRAPHER
Agency Environmental Science Services Administration. **NGDC File No.** 00009



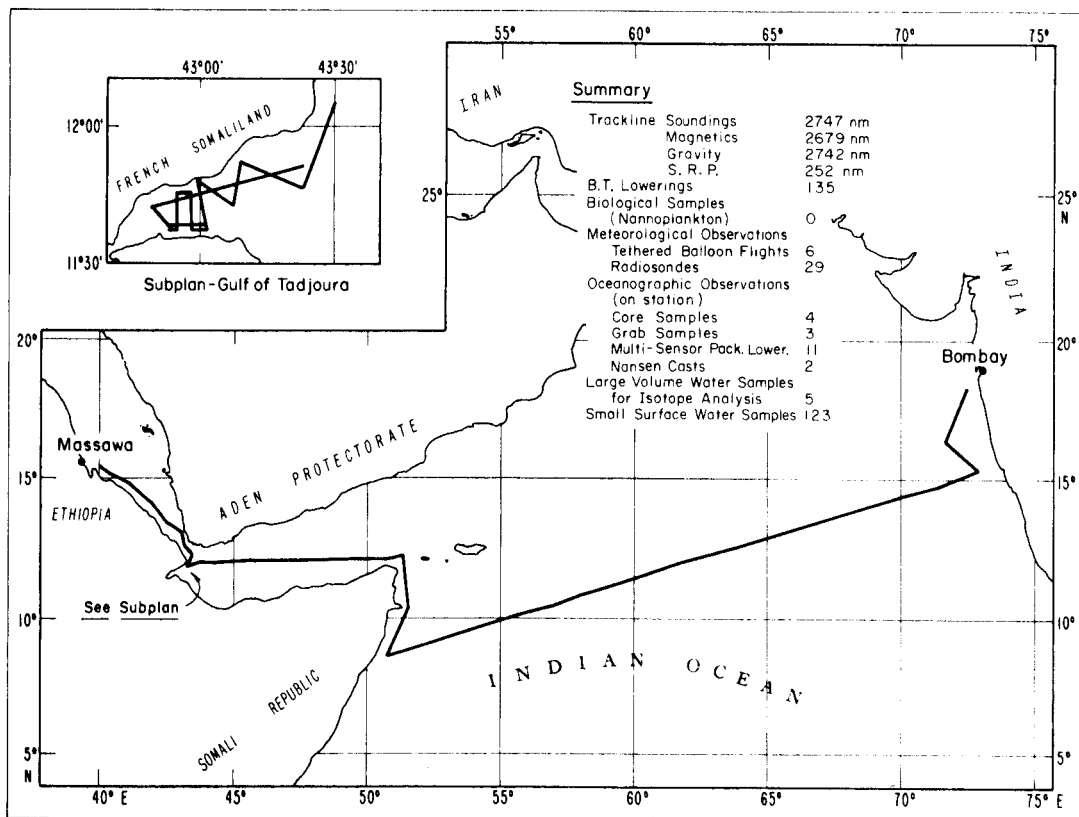
Summary

Trackline Soundings	1917 nm
Magnetics	1619 nm
Gravity	1804 nm
S. R. P.	27 nm
B. T. Lowerings	17
Biological Samples (Nannoplankton)	4
Meteorological Observations	
Kytan Flights	3
Pilot Balloons	1
Radiosondes	8
Radar Tracking Balloons	5
Oceanographic Stations	
Core Samples	2
Grab Samples	3
Large Volume Water Samples for Isotope Analysis	4
C-14 Water Sample	1

AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			P
Gravity		X			P
Magnetic		X			P
Seismic		X			P

Remarks:

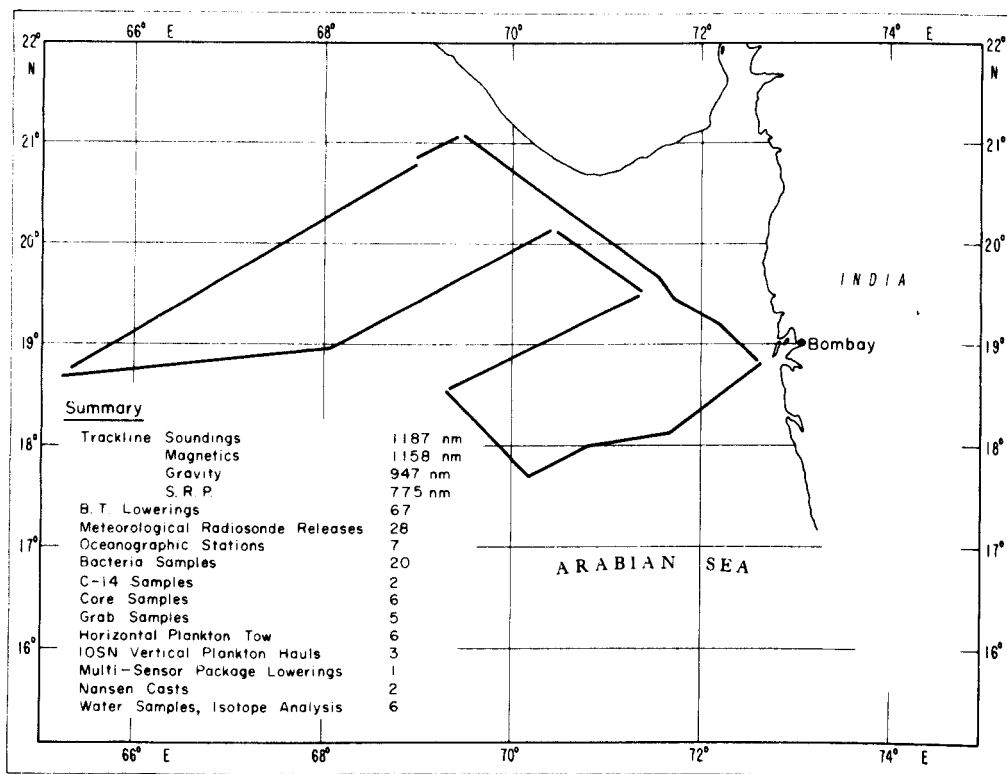
PROJECT: OPR 476 Global Cruise (D Day) Date: May 15-22, 1967
Vessel OSS OCEANOGRAPHER
Agency Environmental Science Services Administration. NGDC File No. 00009



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X			P
Gravity		X			P
Magnetic		X			P
Seismic		X			P

Remarks:

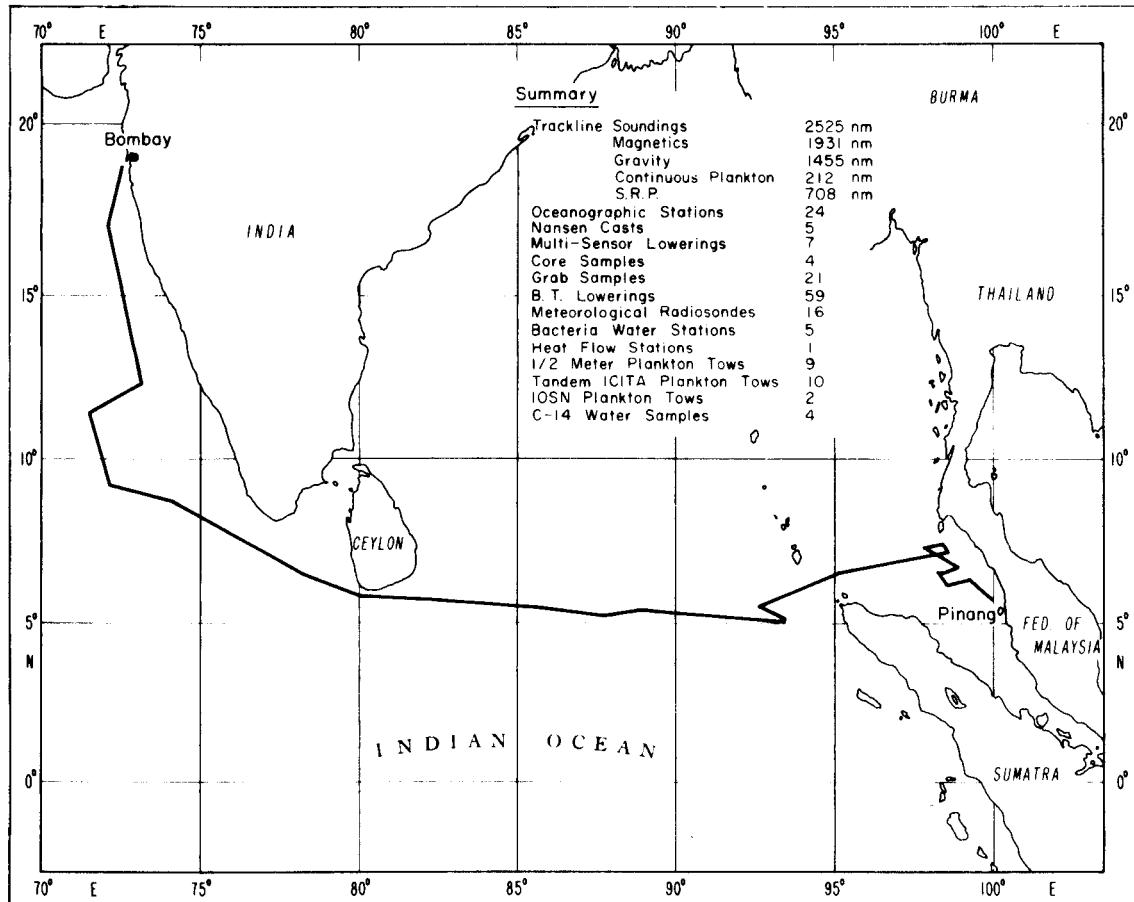
PROJECT: OPR 476 Global Cruise (E Day) Date: May-June, 1967
Vessel OSS OCEANOGRAPHER
Agency Environmental Science Services Administration. NGDC File No. 00009



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X	X		P
Gravity	X	X	X		P
Magnetic	X	X	X		P
Seismic		X			P

Remarks:

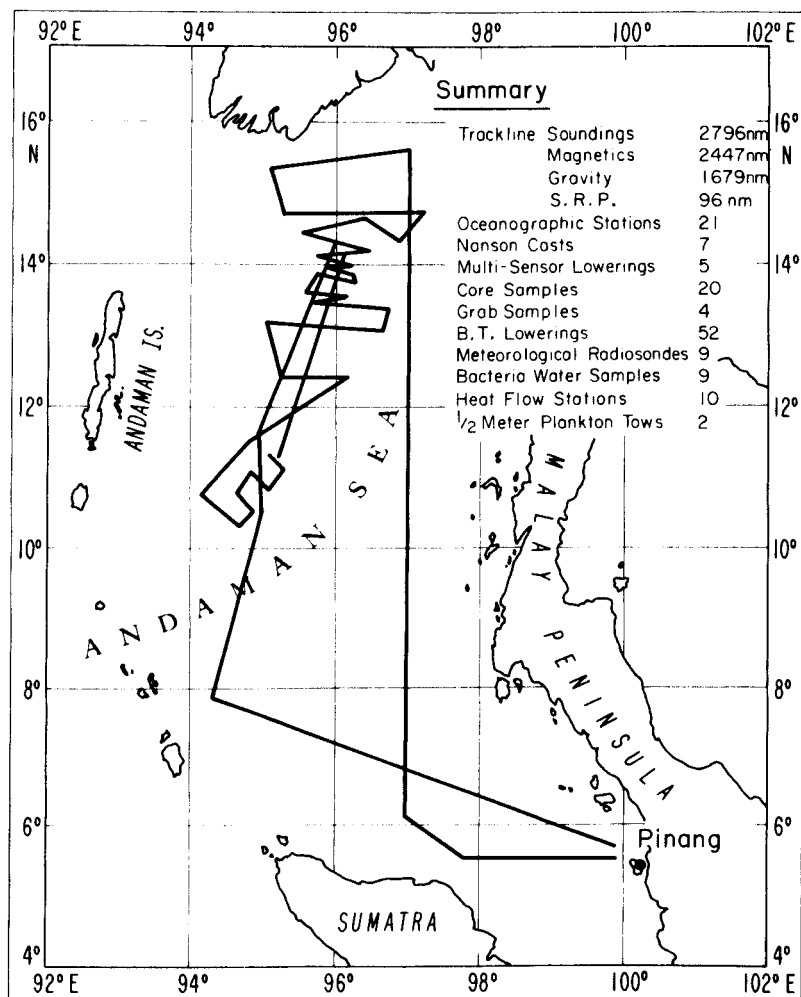
PROJECT: OPR 476 Global Cruise (F Day) **Date:** June 13-22, 1967
Vessel OSS OCEANOGRAPHER
Agency Environmental Science Services Administration. **NGDC File No.** 00009



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X	X		P
Gravity	X	X	X		P
Magnetic	X	X	X		P
Seismic		X			P

Remarks:

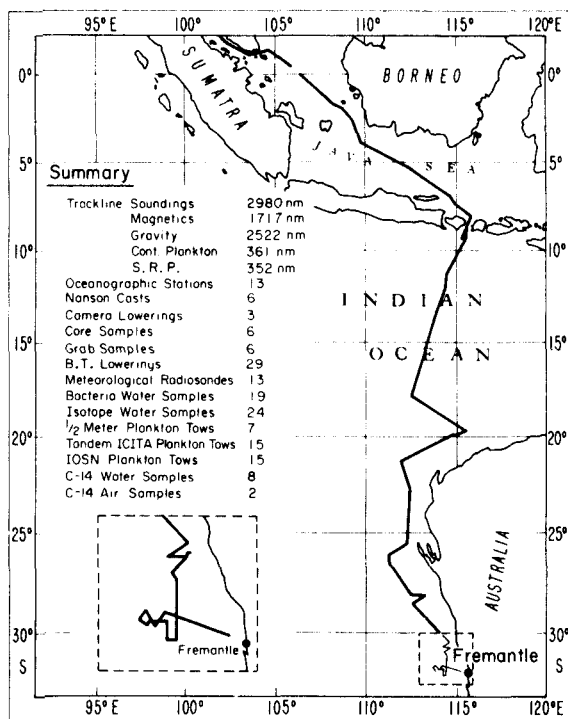
PROJECT: OPR 476 Global Cruise (G Day) Date: June-July, 1967
 Vessel OSS OCEANOGRAPHER
 Agency Environmental Science Services Administration. NGDC File No. 00009



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X	X		P
Gravity	X	X	X		P
Magnetic	X	X	X		P
Seismic		X			P

Remarks:

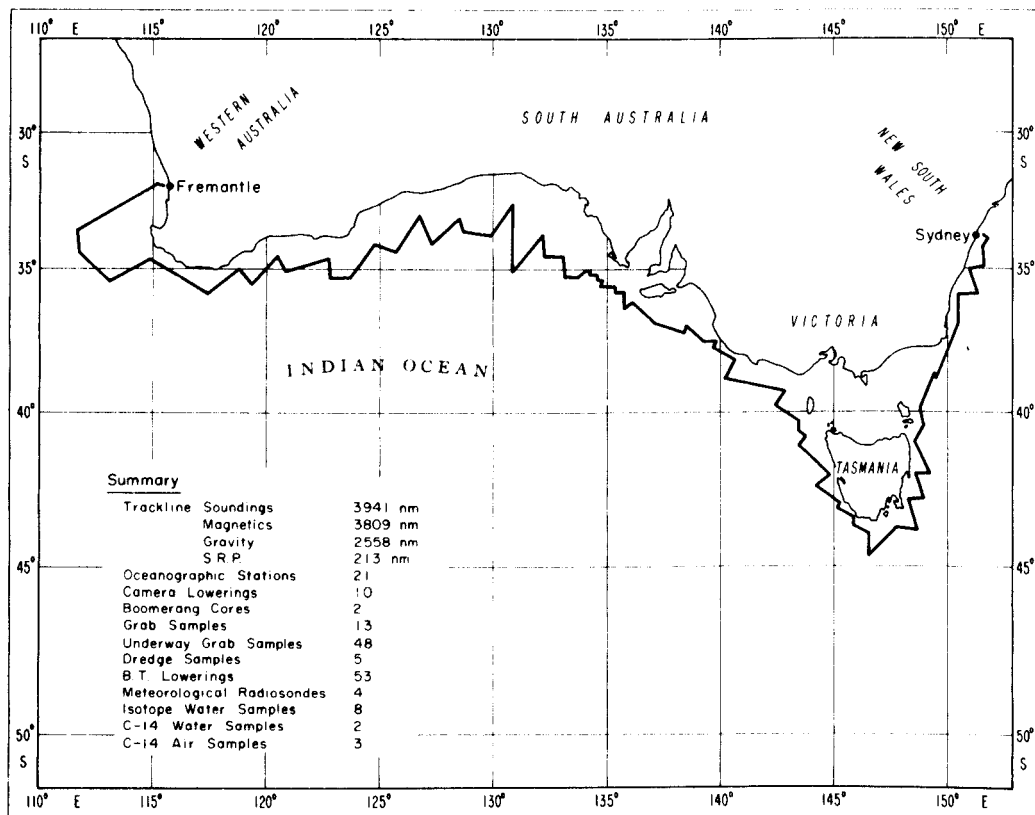
PROJECT: OPR 476 Global Cruise (H Day) Date: July-Aug., 1967
 Vessel OSS OCEANOGRAPHER
 Agency Environmental Science Services Administration. NGDC File No. 00009



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X	X		P
Gravity	X	X	X		P
Magnetic	X	X	X		P
Seismic		X			P

Remarks:

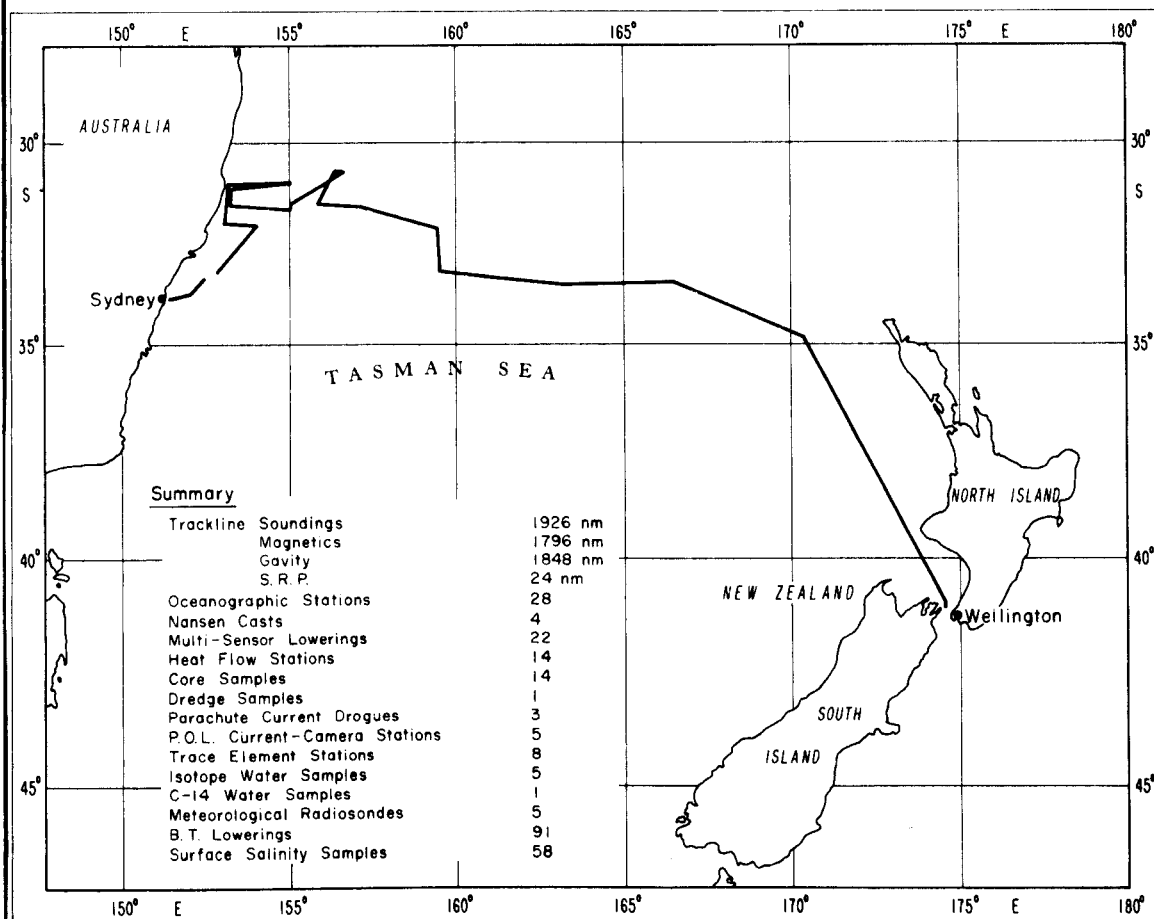
PROJECT: OPR 476 Global Cruise (J Day) **Date:** Aug. 9-23, 1967
Vessel OSS OCEANOGRAPHER
Agency Environmental Science Services Administration. **NGDC File No.** 00009



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X			P
Gravity	X	X			P
Magnetic	X	X			P
Seismic		X			P

Remarks:

PROJECT: OPR 476 Global Cruise (K Day) **Date:** Aug.-Sept., 1967
Vessel OSS OCEANOGRAPHER
Agency Environmental Science Services **NGDC File No.** 00009
 Administration.

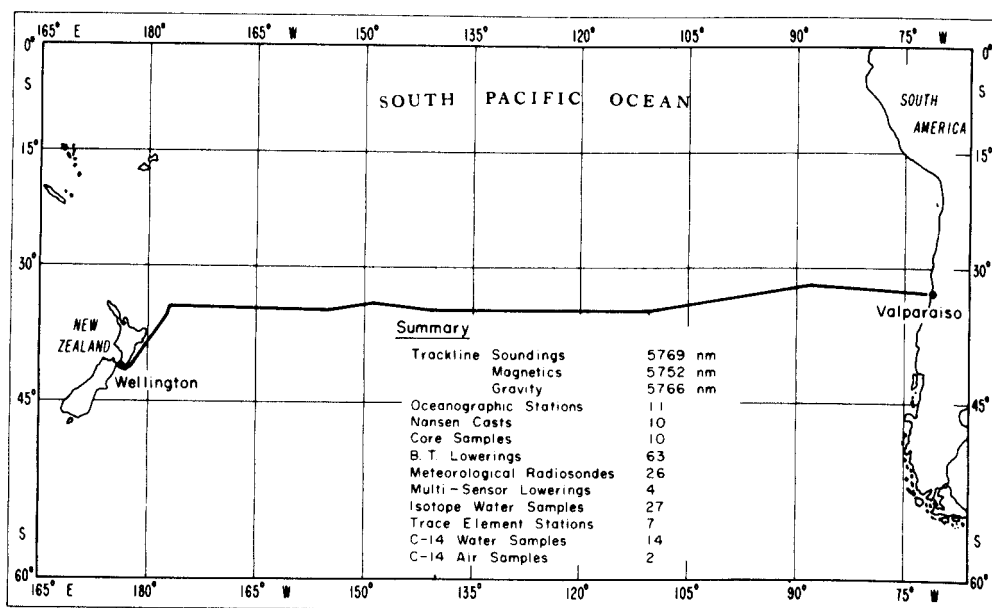


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X			P
Gravity	X	X			P
Magnetic	X	X			P
Seismic					

Remarks:

PROJECT: OPR 476 Global Cruise (L Day) Date: Sept.-Oct., 1967
Vessel: OSS OCEANOGRAPHER
Agency: Environmental Science Services Administration. NGDC File No. 00009

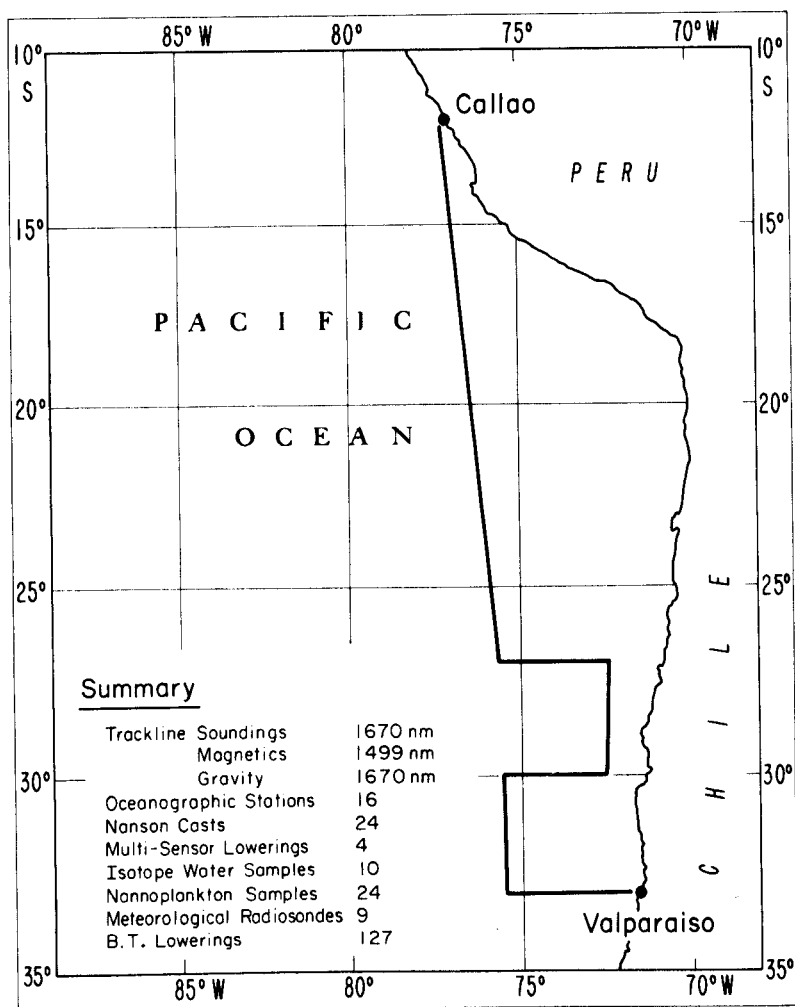
Leg 12 (M-Day)
Wellington, New Zealand,
to Valparaiso, Chile



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			P
Gravity	X	X			P
Magnetic	X	X			P
Seismic					

Remarks:

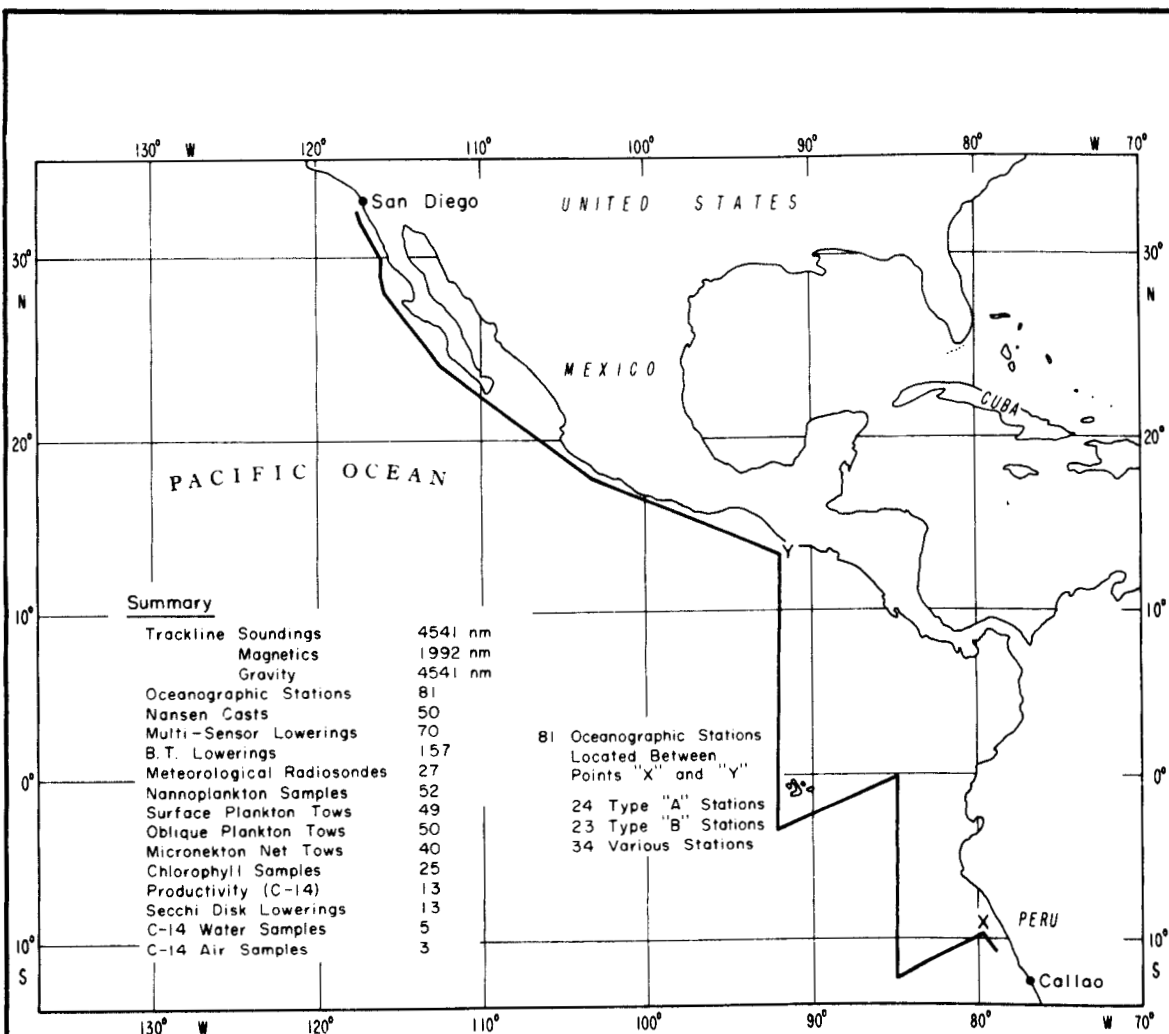
PROJECT: OPR 476 Global Cruise (M Day) **Date:** Oct. 9-30, 1967
Vessel OSS OCEANOGRAPHER
Agency Environmental Science Services NGDC File No. 00009
 Administration.



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X			P
Gravity	X	X			P
Magnetic	X	X			P
Seismic					

Remarks:

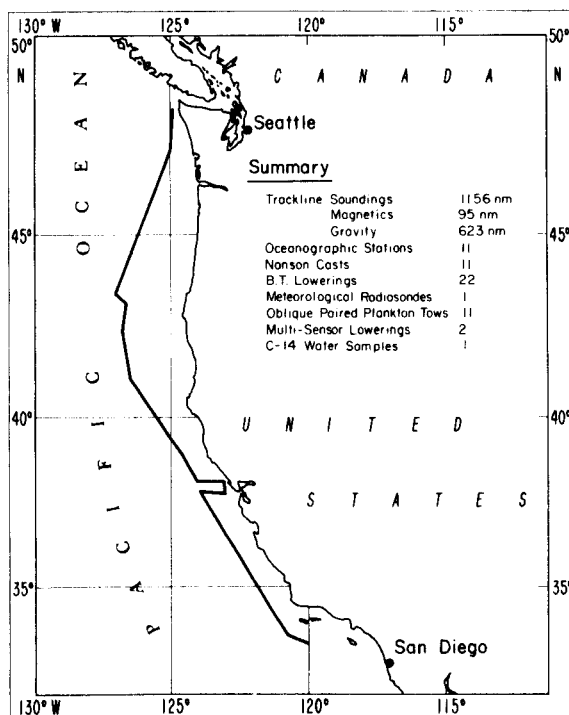
PROJECT: OPR 476 Global Cruise (N Day) Date: Nov. 3-10, 1967
Vessel OSS OCEANOGRAPHER
Agency Environmental Science Services Administration. NGDC File No. 00009



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			P
Gravity		X			P
Magnetic		X			P
Seismic					

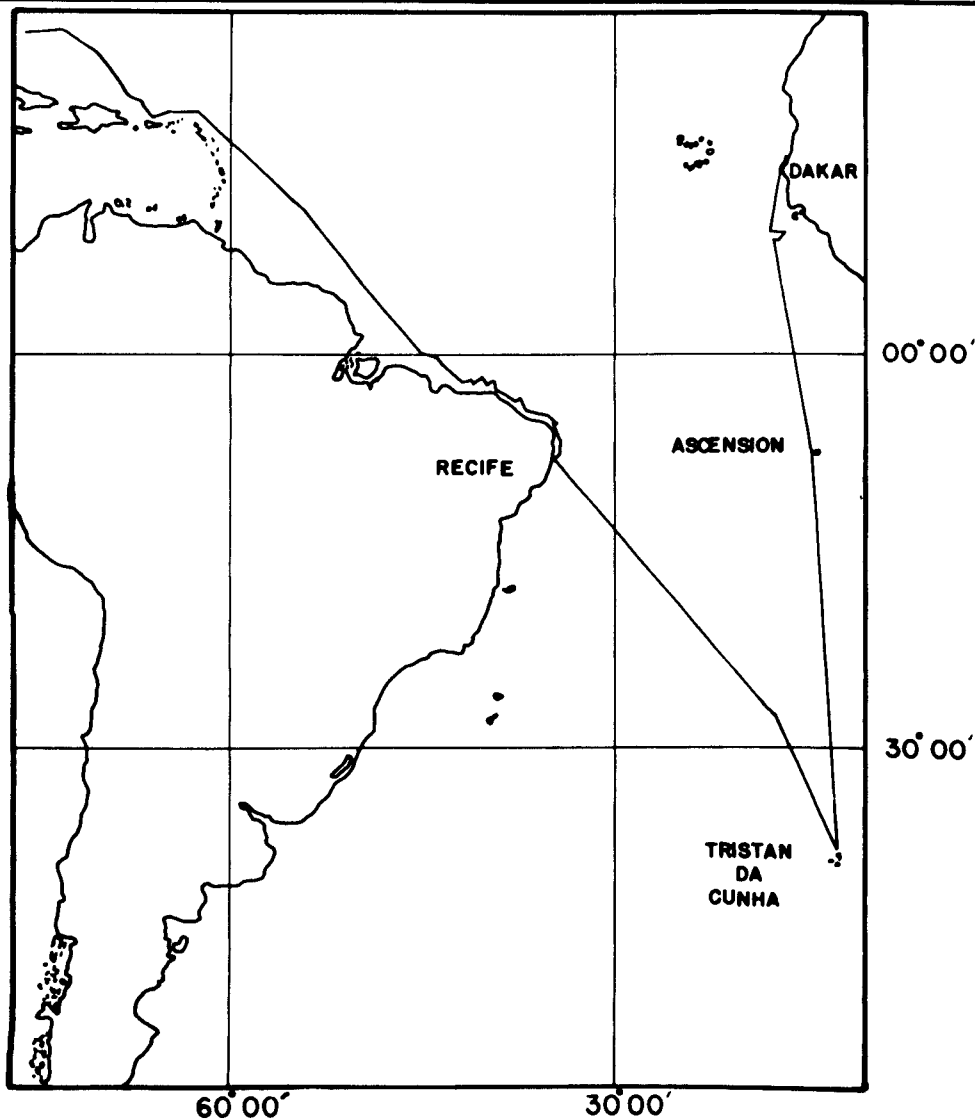
Remarks:

PROJECT: OPR 476 Global Cruise (P Day) **Date:** Nov.-Dec., 1967
Vessel: OSS OCEANOGRAPHER
Agency: Environmental Science Services Administration. **NGDC File No.** 00009



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			P
Gravity		X			P
Magnetic		X			P
Seismic					
Remarks:					

PROJECT: OPR 476 Global Cruise (Q Day) **Date:** Dec. 5-9, 1967
Vessel OSS OCEANOGRAPHER
Agency Environmental Science Services **NGDC File No.** 00009
 Administration.

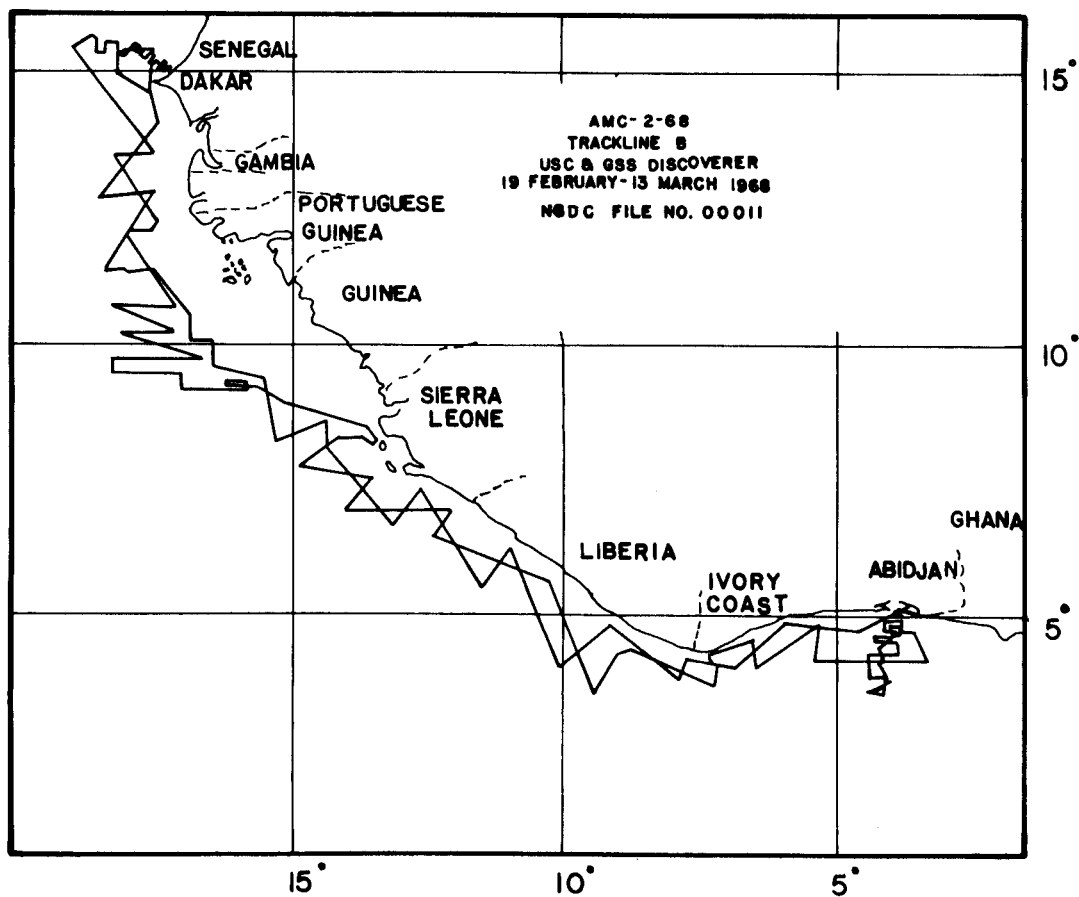


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X			
Gravity	X	X	X		
Magnetic	X	X	X		
Seismic					

Remarks:

PROJECT: AMC-1-68 Atlantic Crossing
 Vessel OSS DISCOVERER
 Agency US Coast and Geodetic Survey

Date: Jan.-Feb., 1968
 NGDC File No. 00010

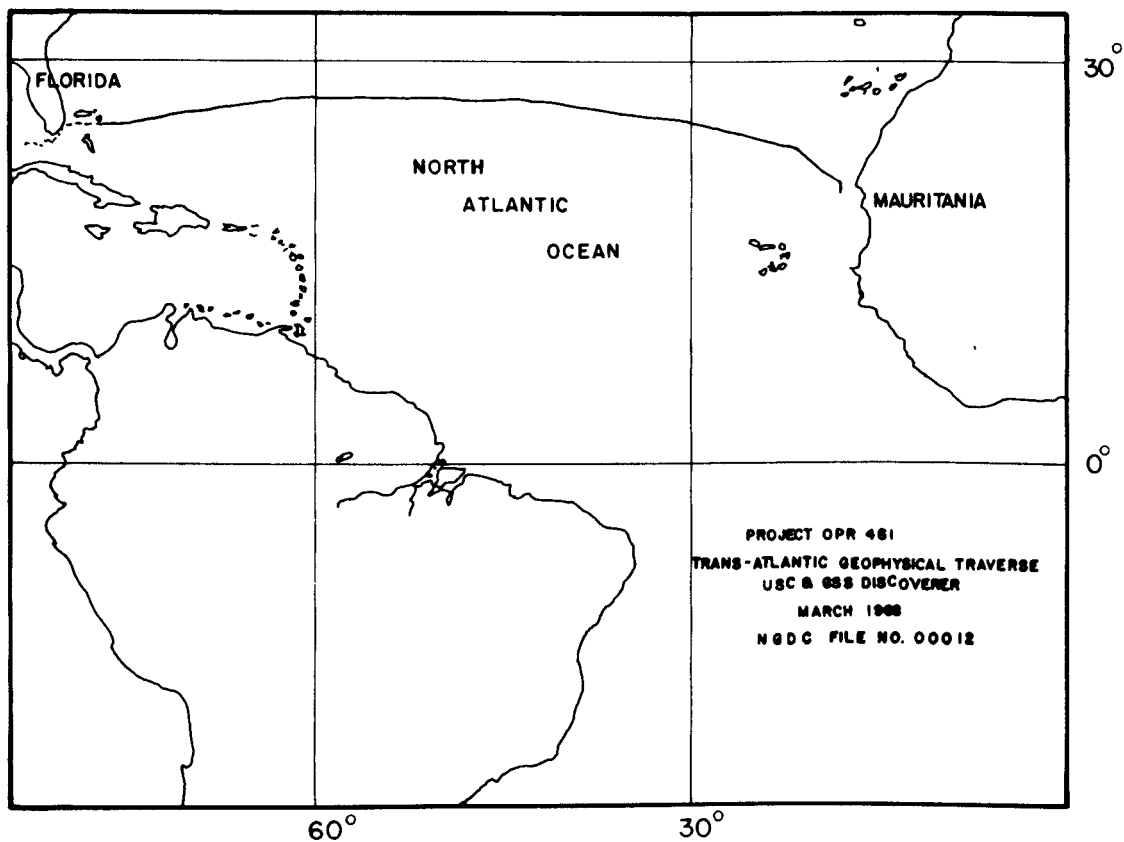


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X			
Gravity	X	X			
Magnetic	X				
Seismic					

Remarks:

PROJECT: AMC-2-68 African Margin
Vessel: OSS DISCOVERER
Agency: US Coast and Geodetic Survey

Date: Feb.-Mar., 1968
NGDC File No. 00011

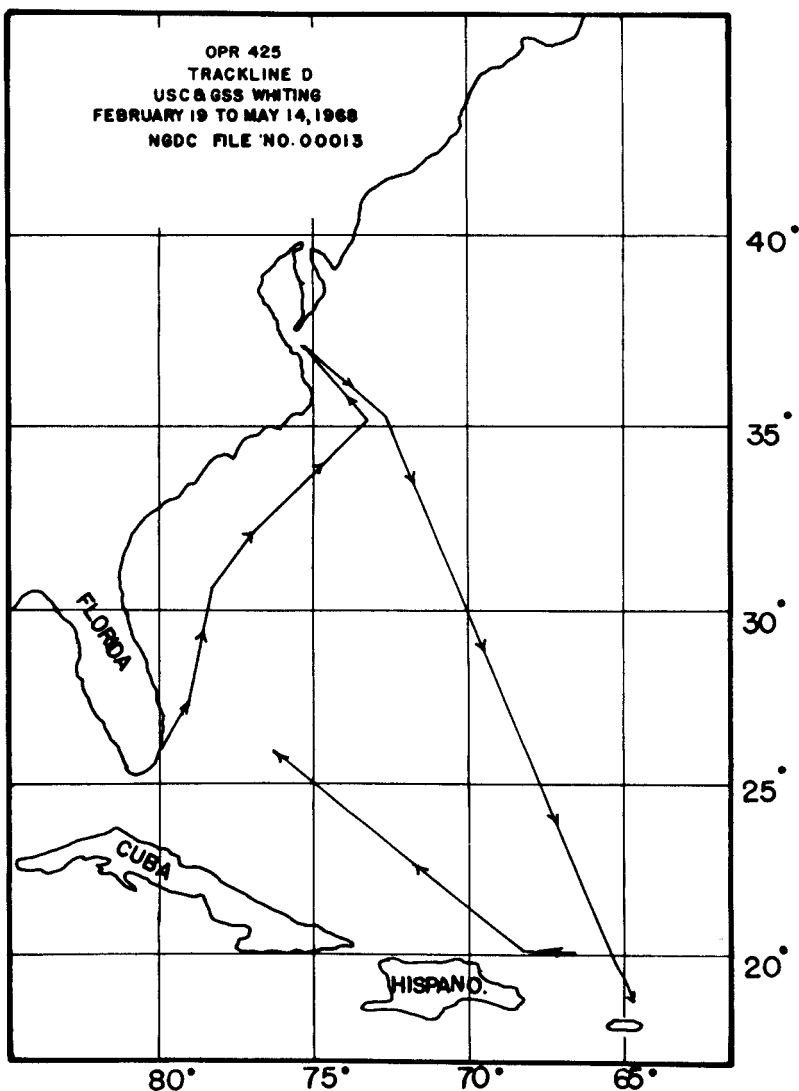


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X			
Gravity	X	X	X		
Magnetic	X	X	X		
Seismic					

Remarks:

PROJECT: Atlantic Geophysical Traverse Date: Mar. 18-28, 1968
Vessel OSS DISCOVERER OPR 461
Agency US Coast and Geodetic Survey NGDC File No. 00012

OPR 425
 TRACKLINE D
 USC&GSS WHITING
 FEBRUARY 19 TO MAY 14, 1968
 NGDC FILE NO. 00013

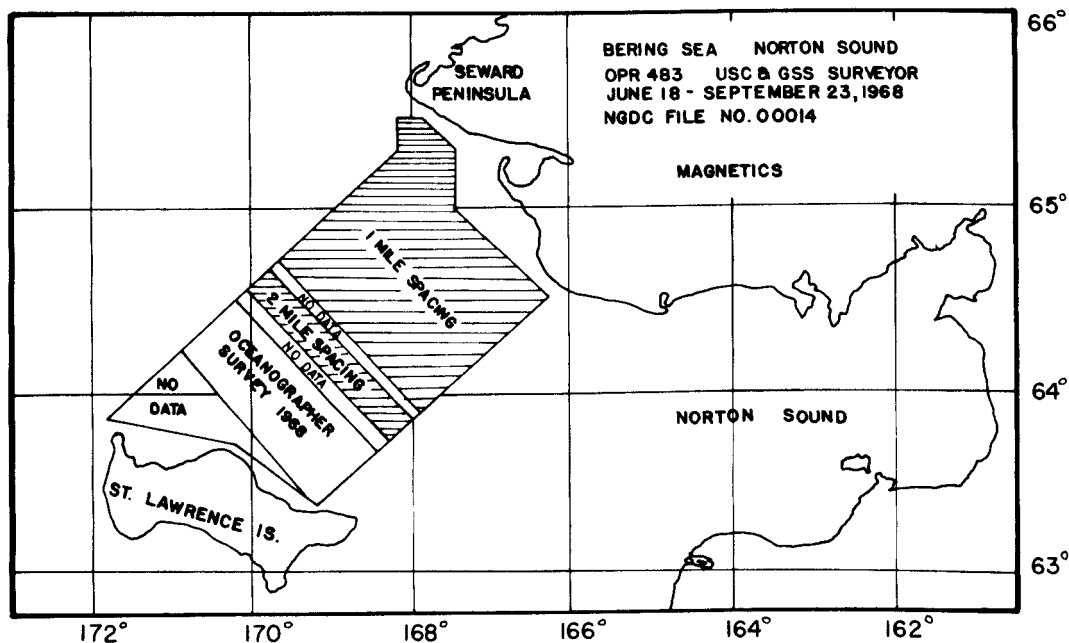


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			
Gravity					
Magnetic	X	X			
Seismic					

Remarks:

PROJECT: Norfolk to San Juan to Miami
 Vessel USC&GSS WHITING OPR 425
 Agency US Coast and Geodetic Survey

Date: Feb.-May, 1968
 NGDC File No. 00013



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			
Gravity		X			
Magnetic	X	X			
Seismic					

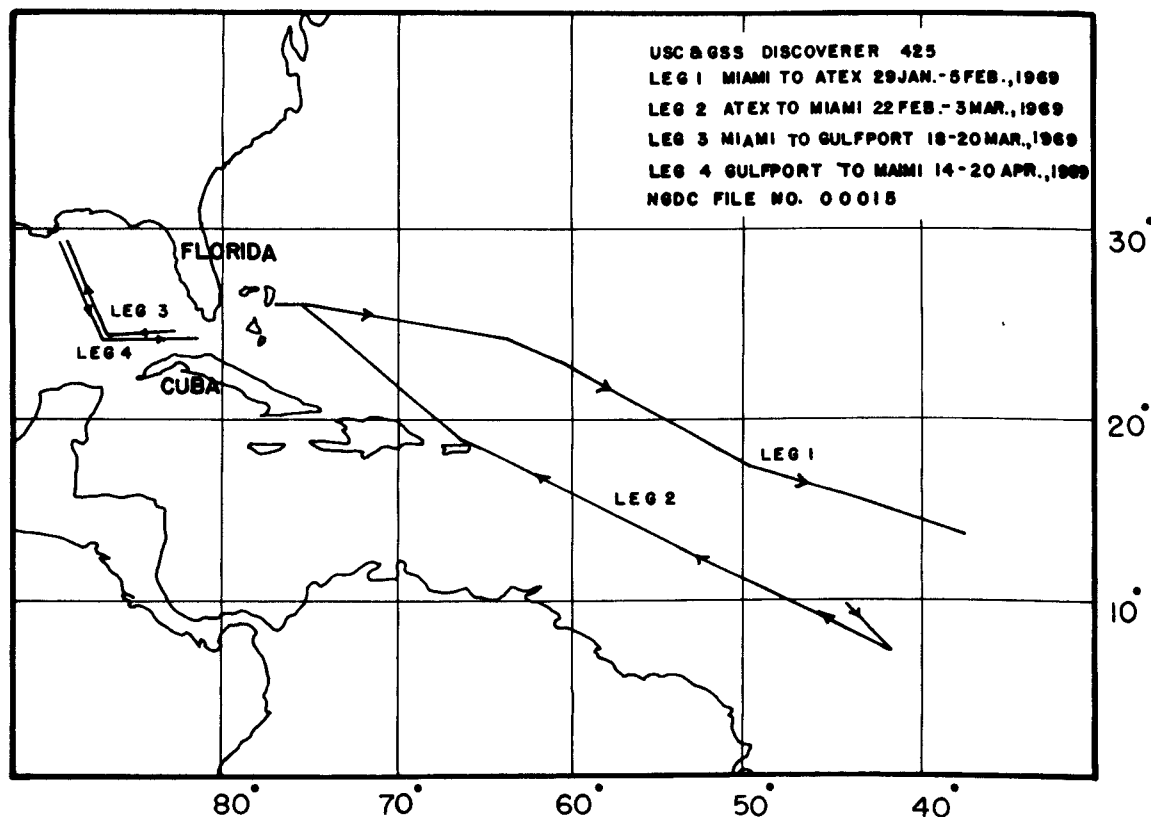
Remarks:

PROJECT: Bering Sea-Norton Sound

Date: June-Sept., 1968

Vessel OSS SURVEYOR

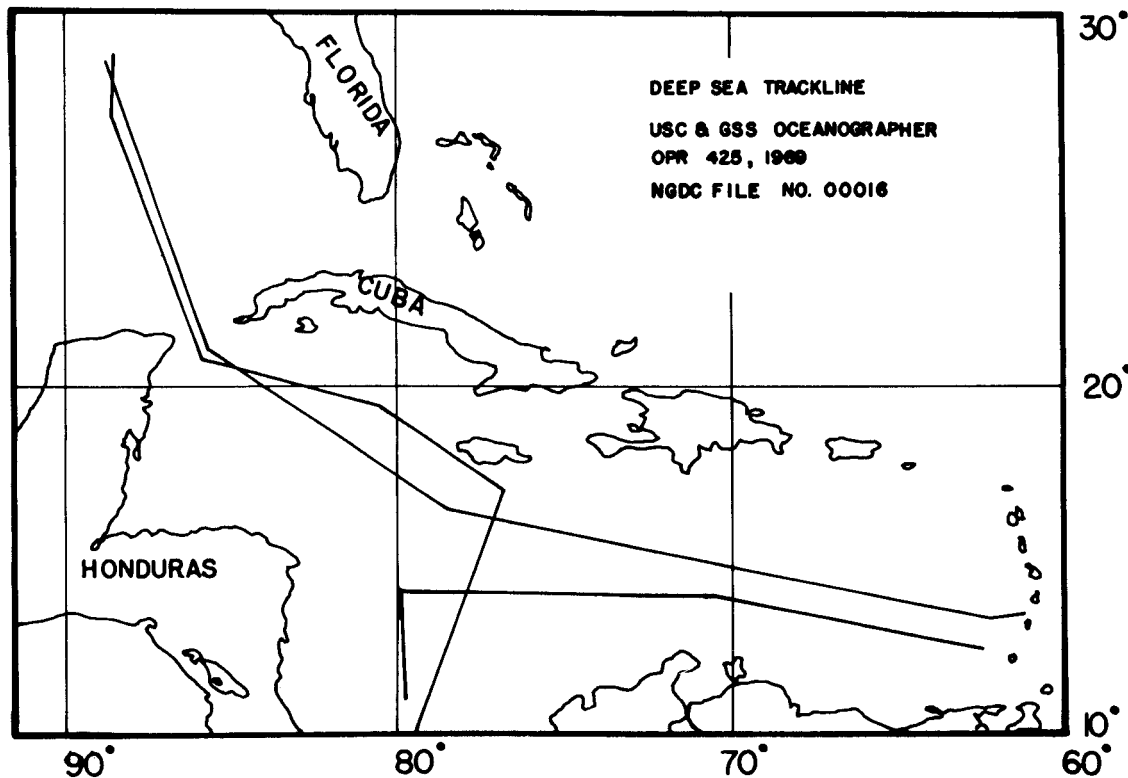
Agency Environmental Science Services Administration. NGDC File No. 00014



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X			
Gravity	X*	X**			
Magnetic	X	X			
Seismic					

Remarks: *No data listing for Legs 3 and 4.
 **No original records Leg 2.

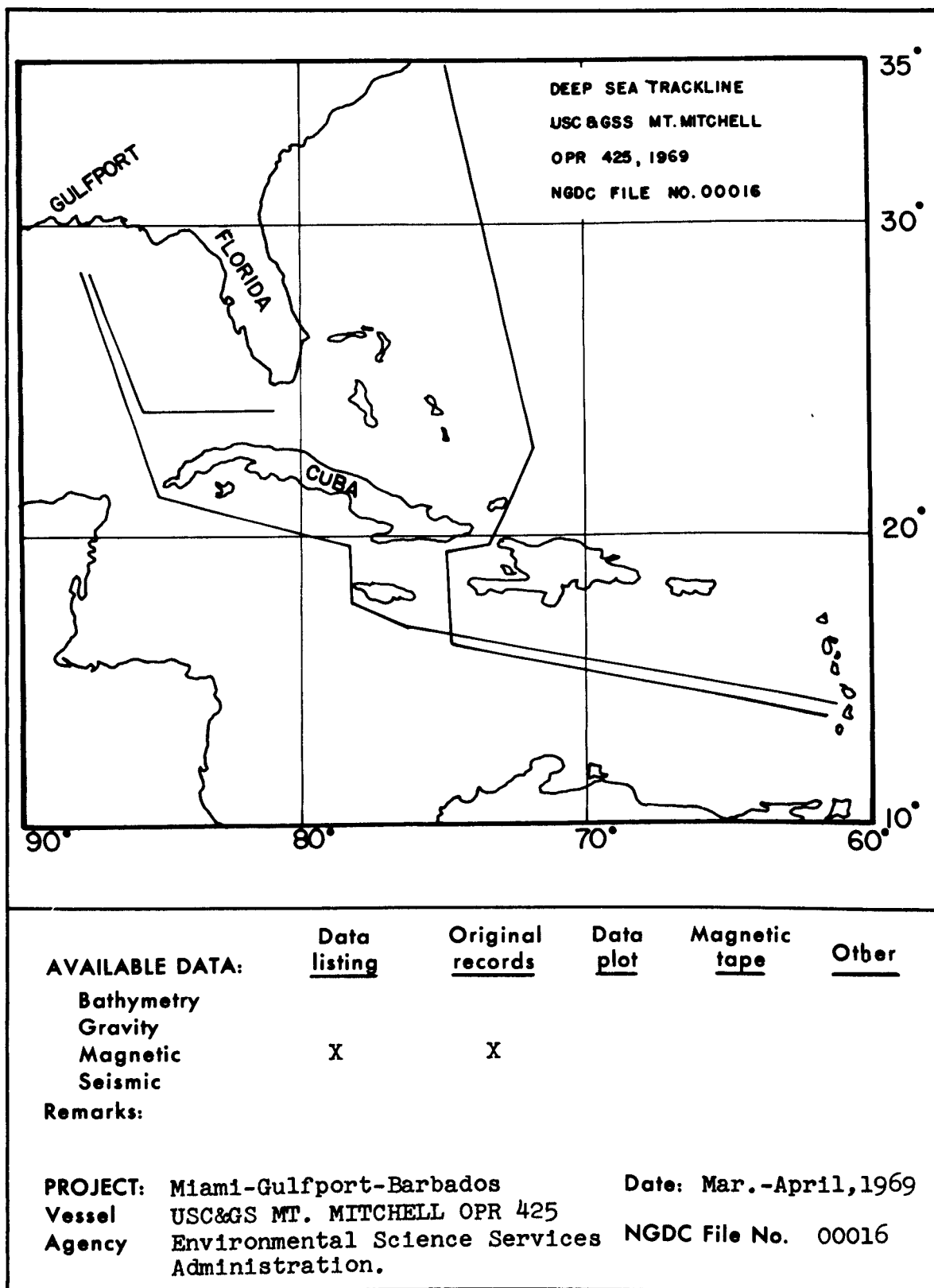
PROJECT: OPR 425 Deep Sea Tracklines Date: Jan.-April, 1969
 Vessel: OSS DISCOVERER
 Agency: Environmental Science Services Administration. NGDC File No. 00015

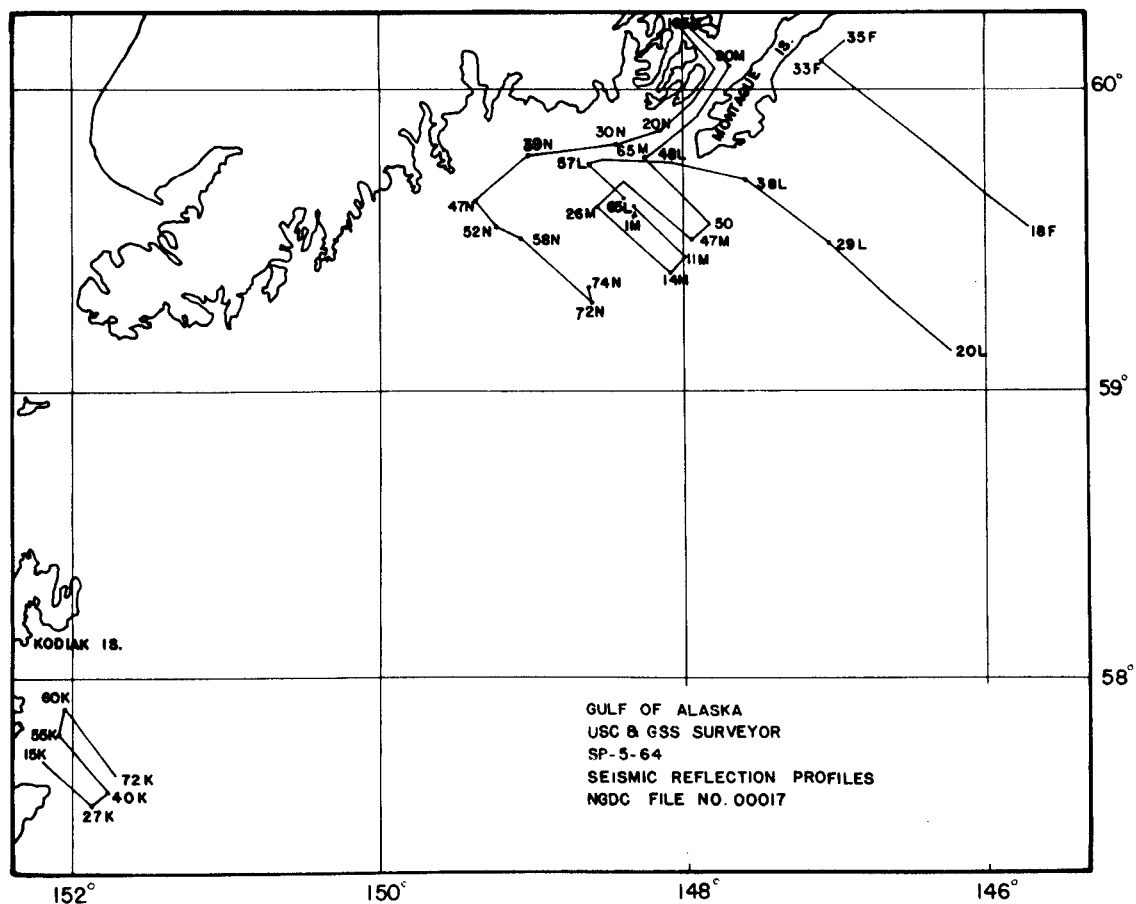


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry					
Gravity	X	X			
Magnetic	X	X			
Seismic					

Remarks:

PROJECT: Panama-Gulfport-Barbados Date: Mar.-April, 1969
Vessel OSS OCEANOGRAPHER OPR 425
Agency Environmental Science Services Administration NGDC File No. 00016





AVAILABLE DATA:	<u>Data</u> <u>listing</u>	<u>Original</u> <u>records</u>	<u>Data</u> <u>plot</u>	<u>Magnetic</u> <u>tape</u>	<u>Other</u>
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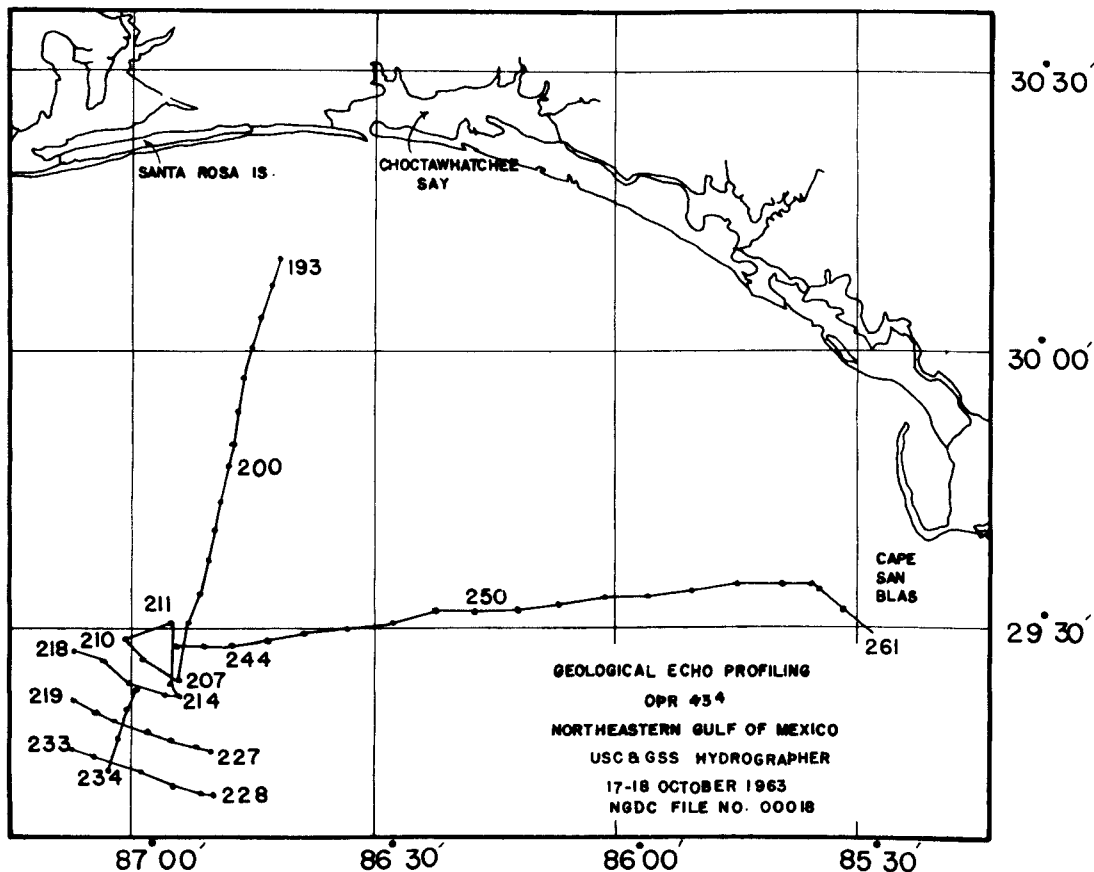
Bathymetry
Gravity
Magnetic
Seismic

X*

Remarks: *105 mm. Contact print of original profiles.

PROJECT: Gulf of Alaska SP-5-64
Vessel: OSS SURVEYOR
Agency: US Coast and Geodetic Survey

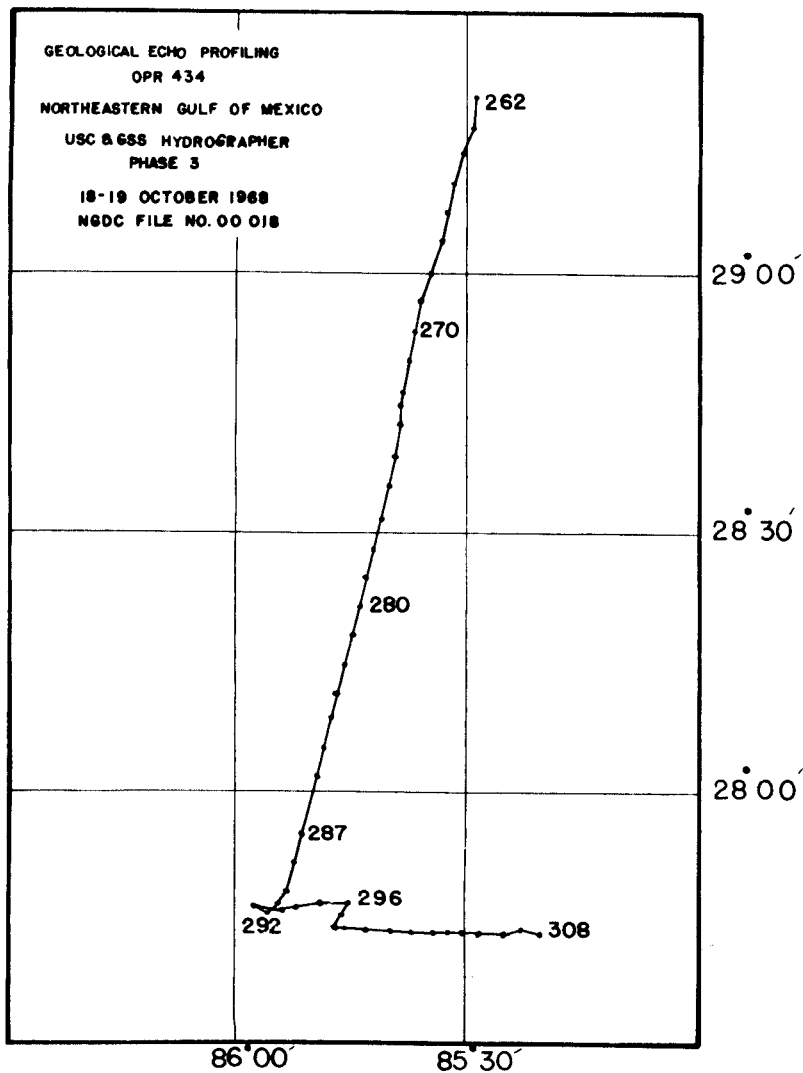
Date: 1964
NGDC File No. 00017



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			
Gravity					
Magnetic					
Seismic		X			
Remarks:					

PROJECT: Gulf of Mexico-DeSoto Canyon
Vessel USC&GSS HYDROGRAPHER OPR 434
Agency US Coast and Geodetic Survey

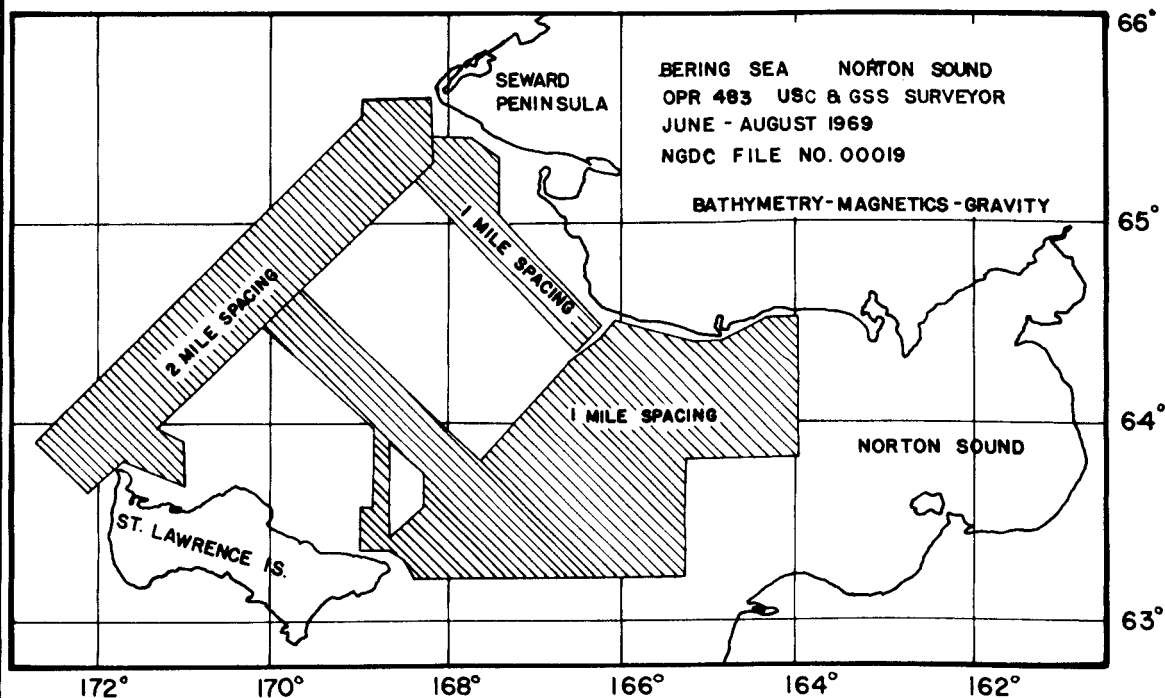
Date: Oct. 17-18, 1963
NGDC File No. 00018



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			
Gravity					
Magnetic					
Seismic		X			
Remarks:					

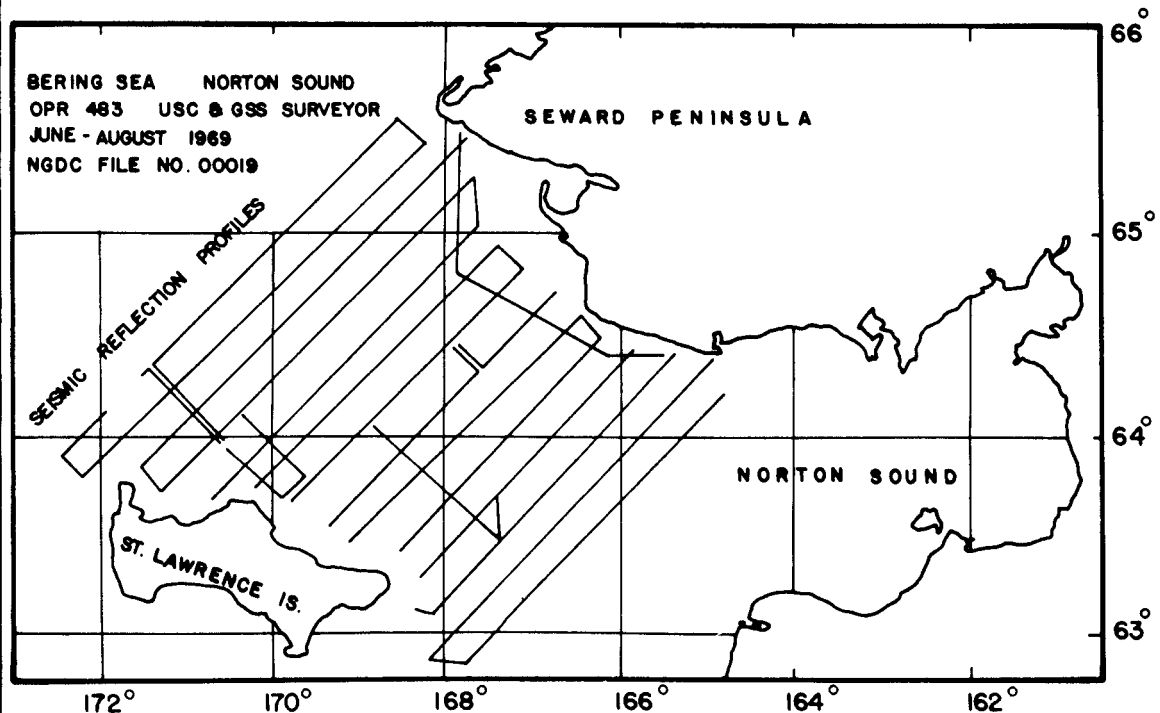
PROJECT: Gulf of Mexico-DeSoto Canyon
Vessel USC&GSS HYDROGRAPHER OPR 434
Agency US Coast and Geodetic Survey

Date: Oct. 18-19, 1963
NGDC File No. 00018



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry					M
Gravity		X			M
Magnetic					M
Seismic		X			P
Remarks:					

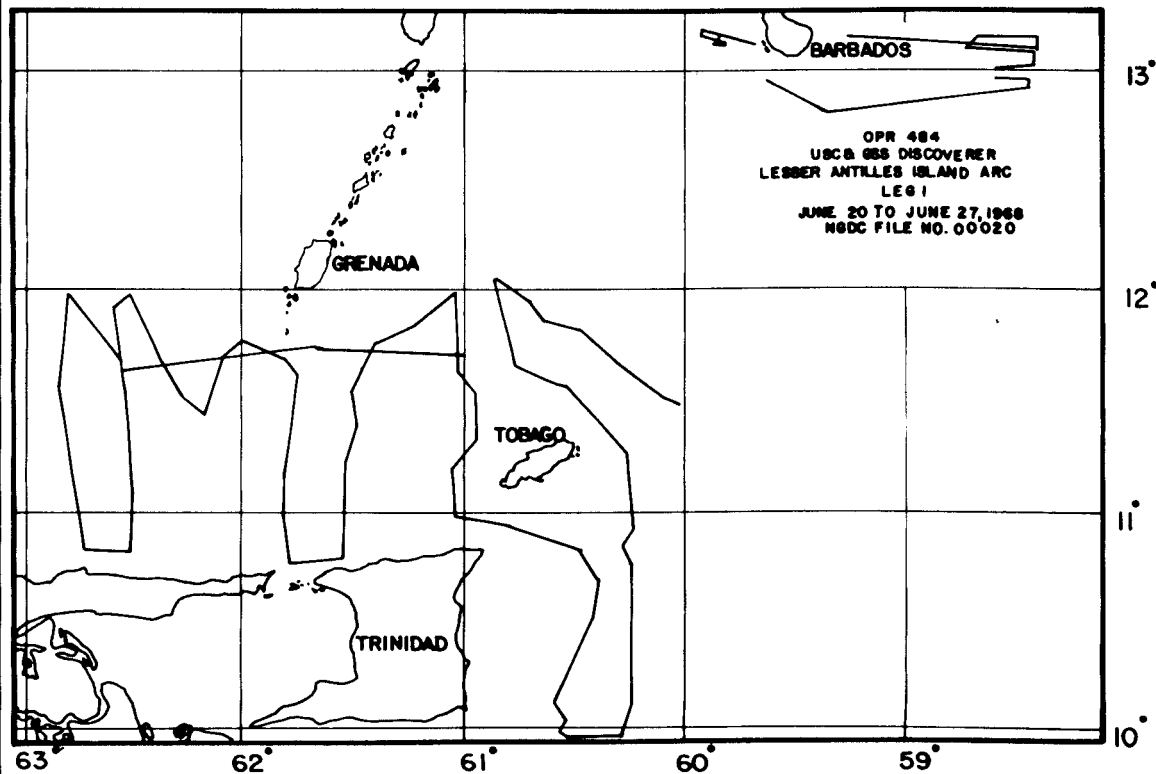
PROJECT: Bering Sea-Norton Sound **Date:** June-Aug., 1969
Vessel OSS SURVEYOR
Agency Environmental Science Services **NGDC File No.** 00019
 Administration.



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry					M
Gravity		X			M
Magnetic					M
Seismic		X			P

Remarks:

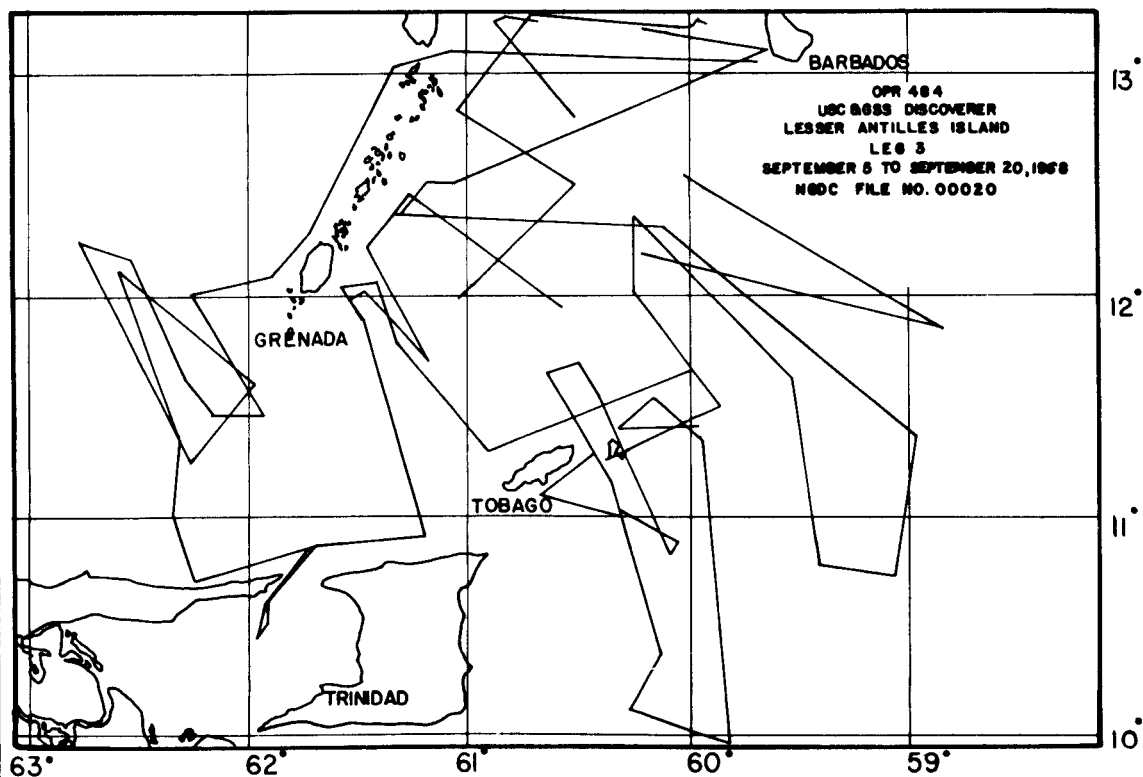
PROJECT: Bering Sea-Norton Sound Date: June-Aug., 1969
Vessel OSS SURVEYOR
Agency Environmental Science Services NGDC File No. 00019
Administration.



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X			
Gravity	X	X			
Magnetic	X	X			
Seismic		X			

Remarks:

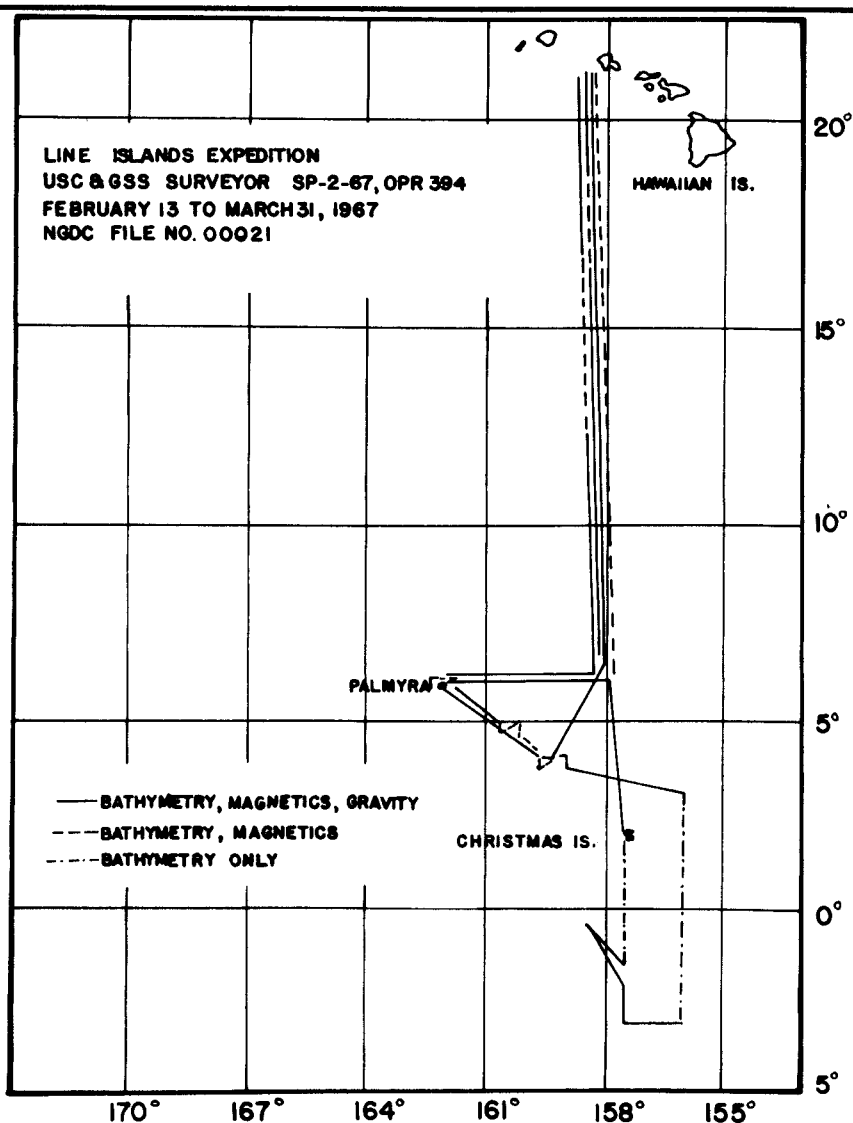
PROJECT: Lesser Antilles Island Arc Date: June 20-27, 1968
Vessel: OSS DISCOVERER OPR 484 Leg 1
Agency: Environmental Science Services Administration. NGDC File No. 00020



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X			
Gravity	X	X			
Magnetic	X	X			
Seismic		X			

Remarks:

PROJECT: Lesser Antilles Island Arc Date: Sept. 5-20, 1968
Vessel OSS DISCOVERER OPR 484 Leg 3
Agency Environmental Science Services NGDC File No. 00020
Administration.



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			
Gravity		X			
Magnetic	X	X			
Seismic					

Remarks:

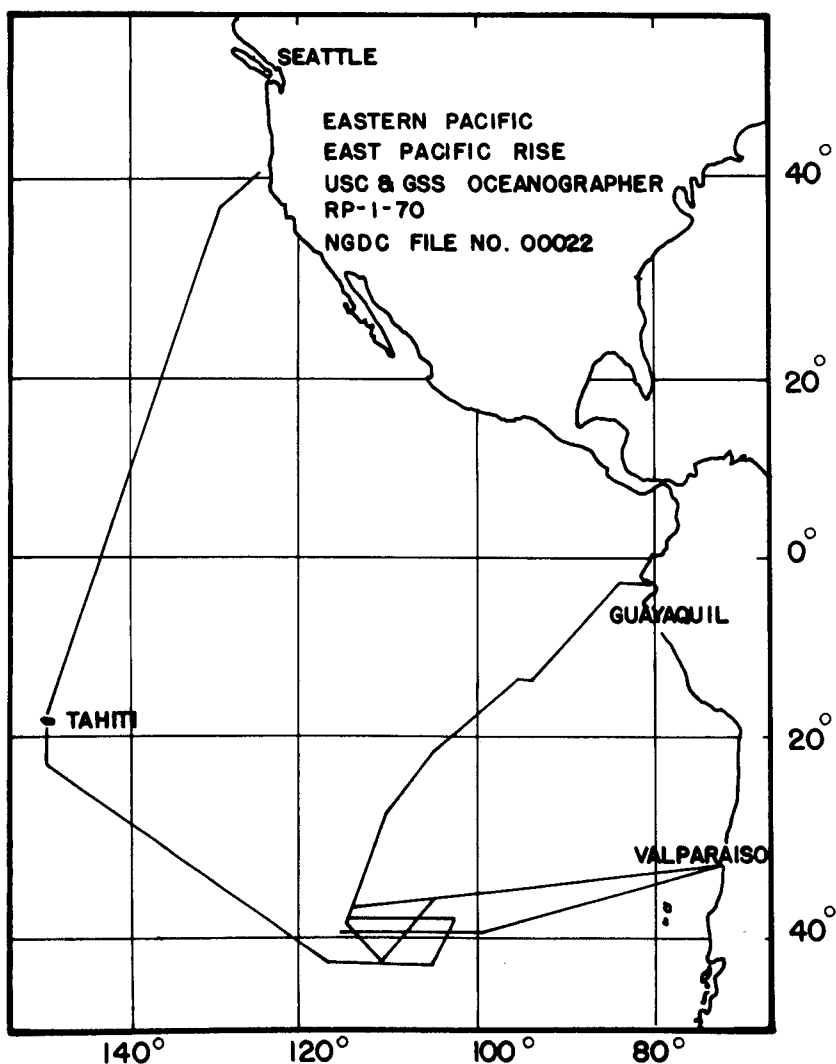
PROJECT: Line Islands Expedition

Date: Feb.-Mar., 1967

Vessel OSS SURVEYOR SP-2-67

Agency Environmental Science Services Administration.

NGDC File No. 00021

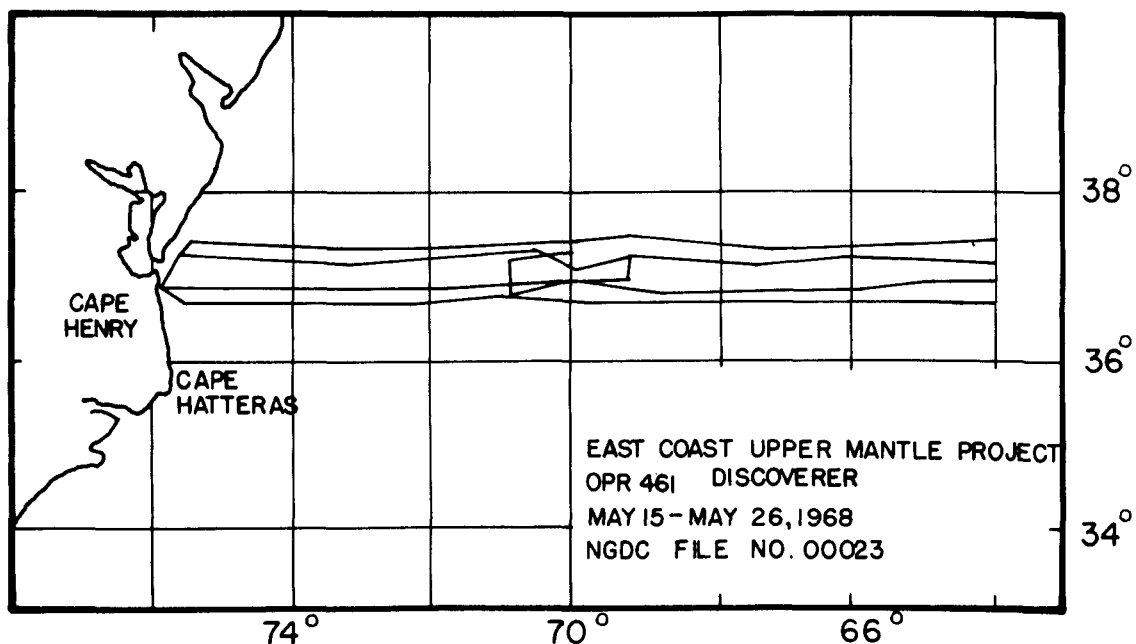


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X			
Gravity	X*	X			
Magnetic	X*	X			
Seismic					

Remarks: *No listing for Leg 3, Valparaiso to Guayaquil.

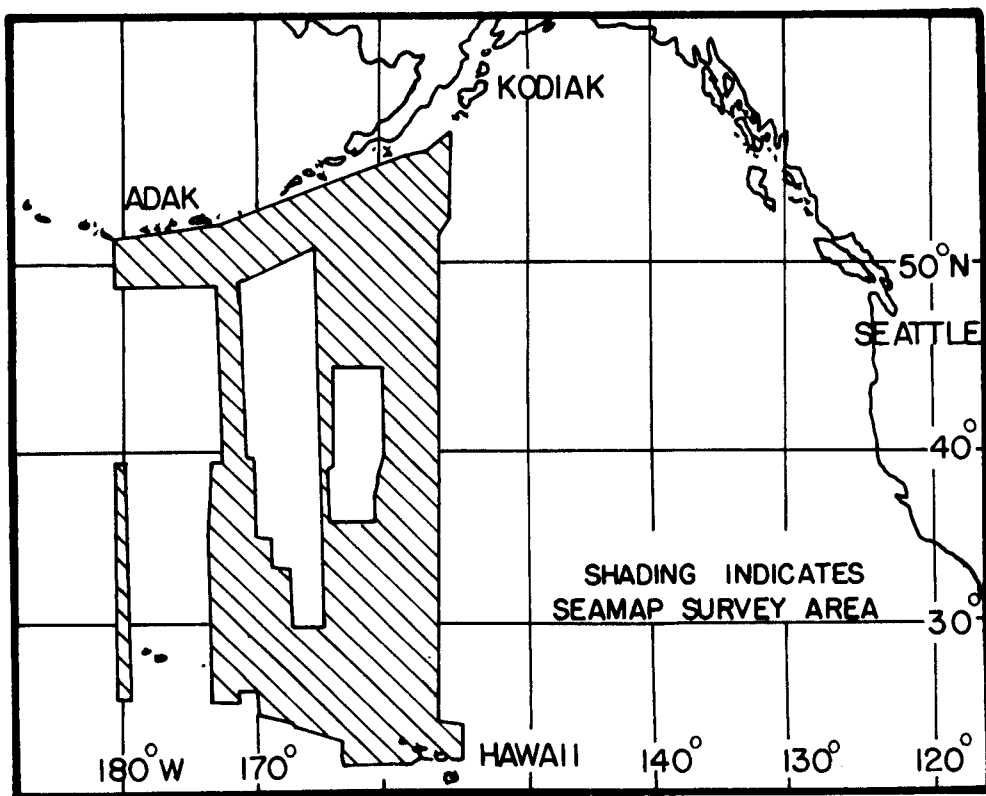
PROJECT: Eastern Pacific-E. Pac. Rise
Vessel OSS OCEANOGRAPHER RP-1-70
Agency NOAA

Date: Jan.-March, 1970
NGDC File No. 00022



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			
Gravity		X			
Magnetic		X			
Seismic					
Remarks:					

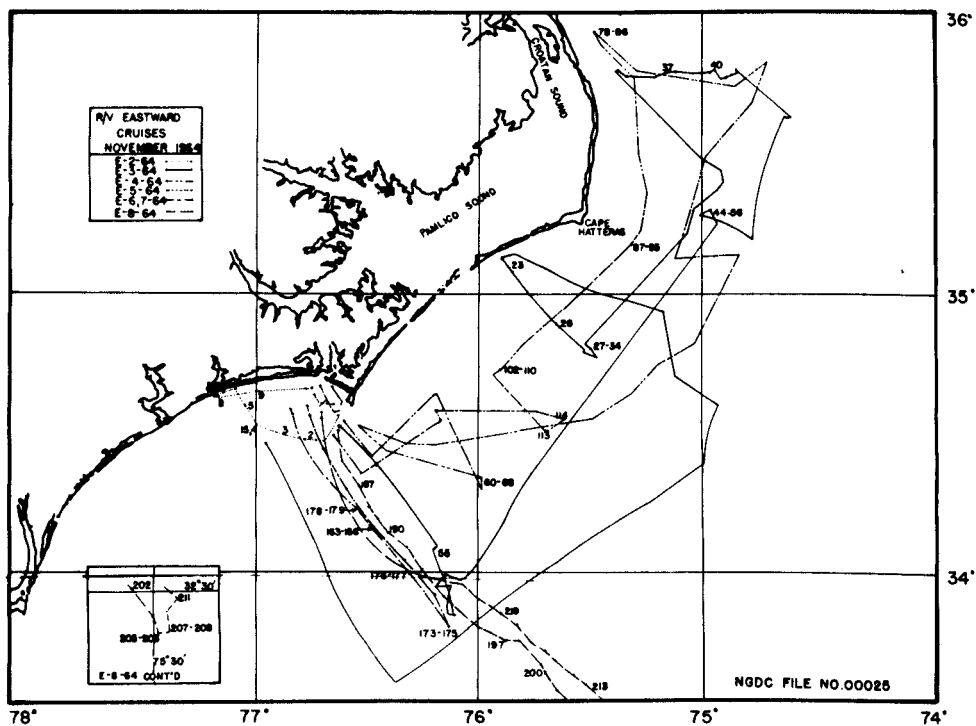
PROJECT:	East Coast Upper Mantle	Date:	May 15-26, 1967
Vessel	OSS DISCOVERER OPR 461		
Agency	Environmental Science Services Administration.	NGDC File No.	00023



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry				X	M
Gravity				X	M
Magnetic				X	M
Seismic					
Remarks:					

PROJECT: OPR 421 Pacific Sea Map
Vessel USC&GSS PIONEER & SURVEYOR
Agency US Coast and Geodetic Survey

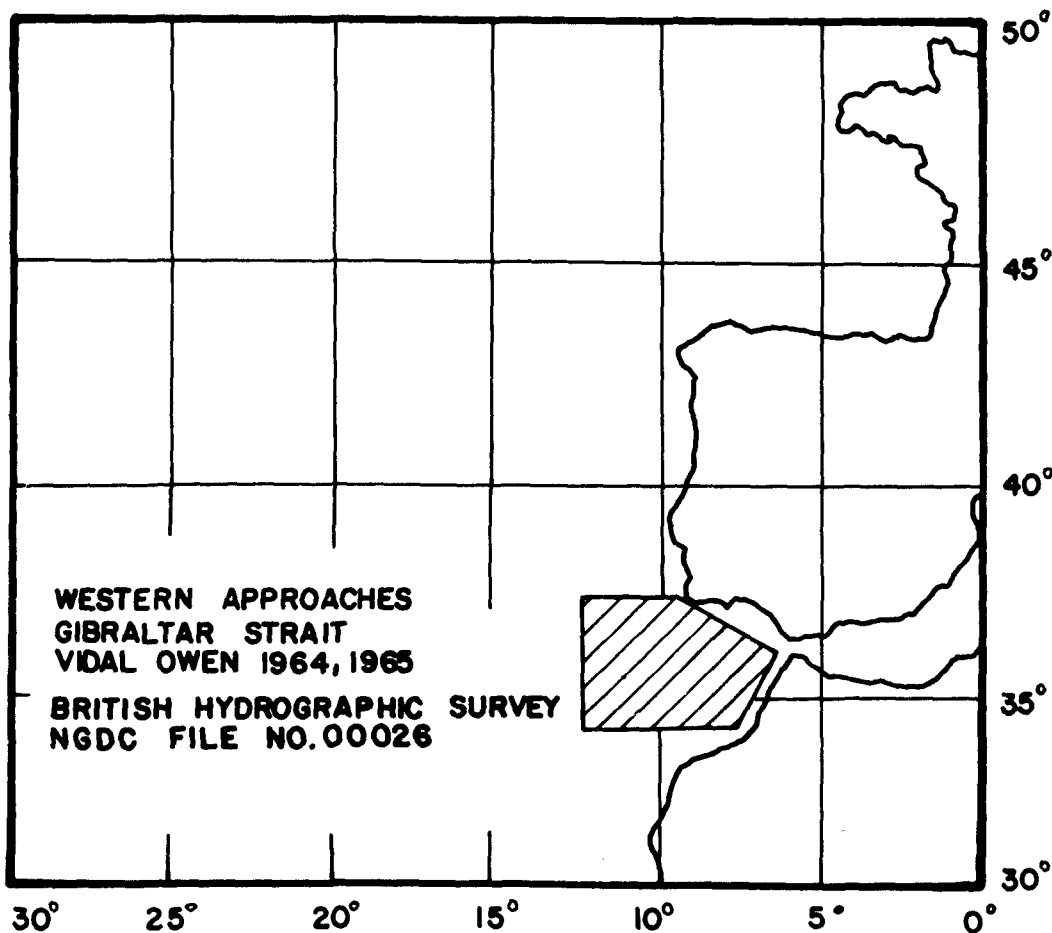
Date: 1961-1970
NGDC File No. 00024



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X*			P
Gravity					
Magnetic					
Seismic					

Remarks: *Tracklines shown are representative of 58 research and training cruises run by EASTWARD in 1964 and 1965 for which bathymetric data are available.

PROJECT: Research and Training Cruises **Date:** 1964-1965
Vessel RV EASTWARD
Agency Duke University Marine Lab. **NGDC File No.** 00025



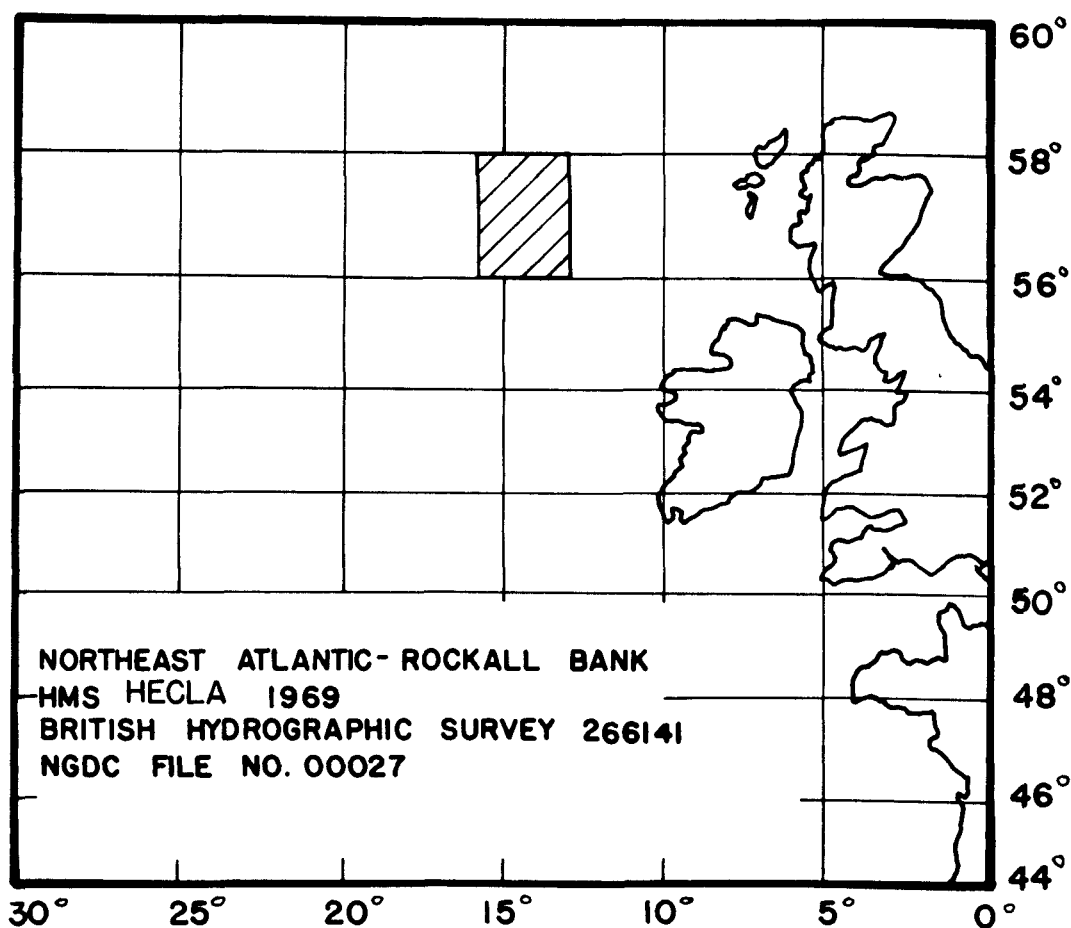
AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry					M*
Gravity					M
Magnetic					
Seismic					

Remarks: *Bathymetric and Gravity maps available on Aperture cards.

PROJECT: Western approaches to the
Straight of Gibraltar
Vessel HMS VIDAL and OWEN
Agency British Hydrographic Office

Date: 1964 and 1965

NGDC File No. 00026

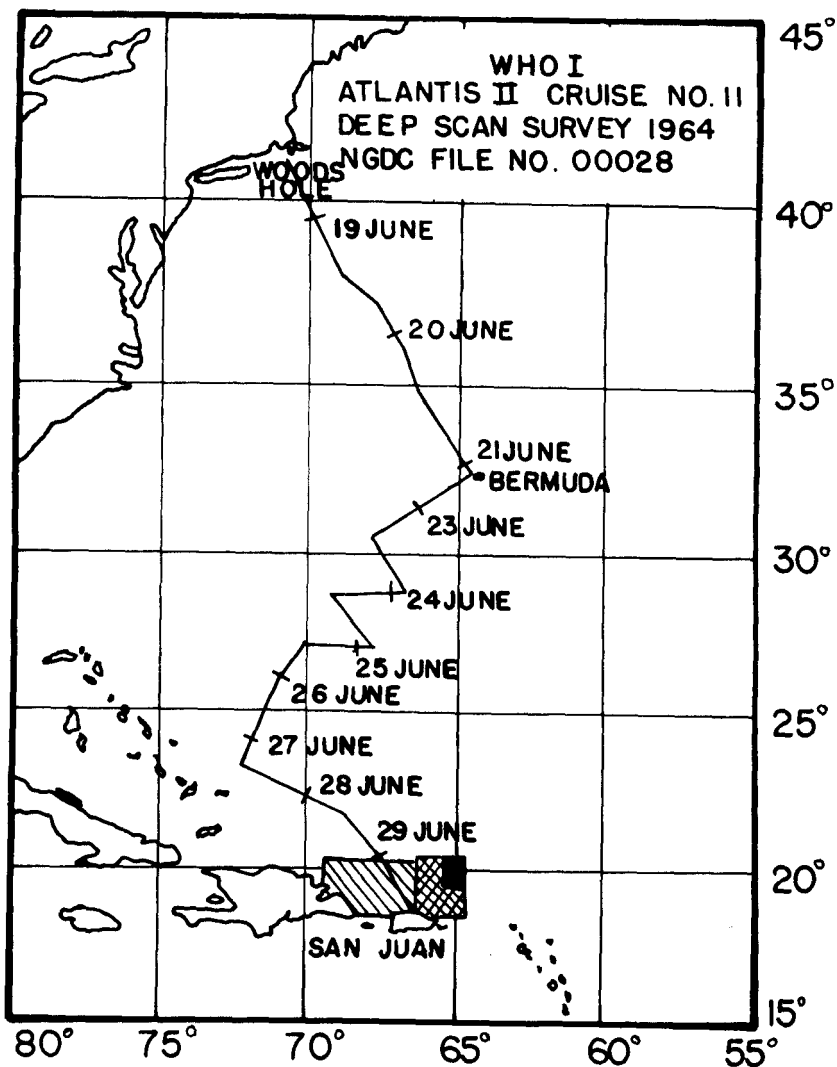


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry			X*		
Gravity					
Magnetic					
Seismic					

Remarks: *On Aperture Cards

PROJECT: Hydro. Survey-Rockall Bank
 Vessel HMS HECLA Survey 266141
 Agency British Hydrographic Office

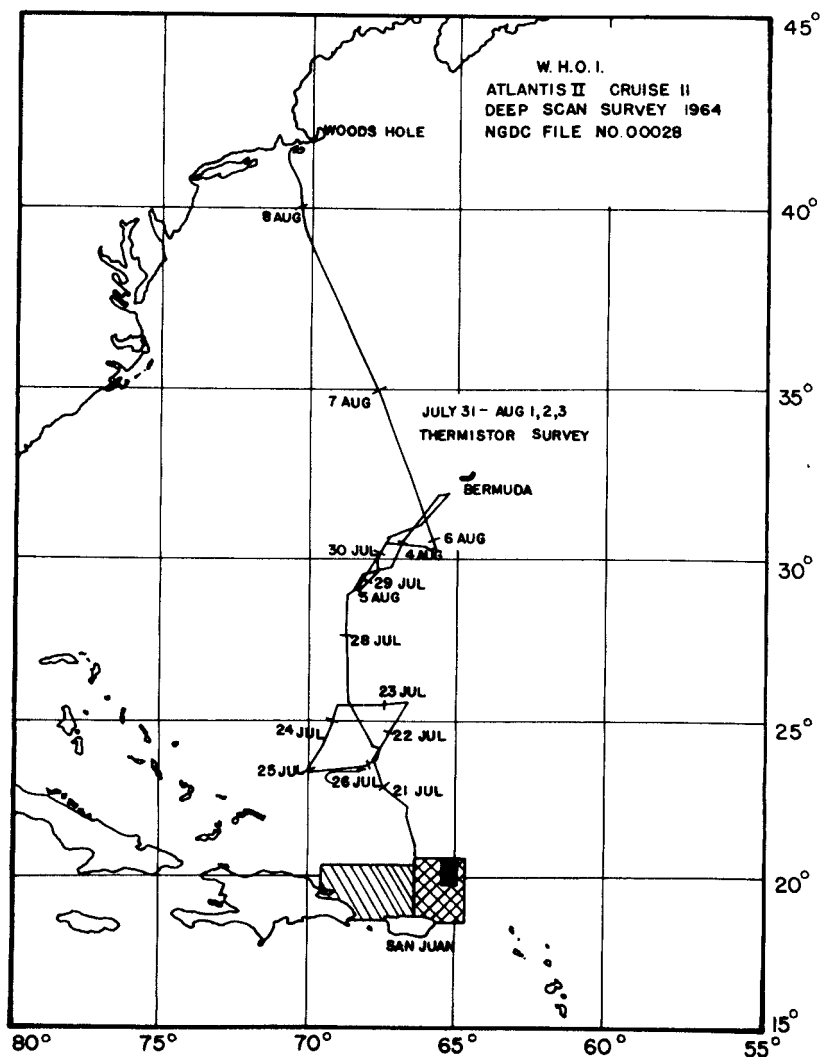
Date: Mar.-May, 1969
 Sept.-Nov., 1969
 NGDC File No. 00027



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry			X		
Gravity					
Magnetic					
Seismic		X			
Remarks:					

PROJECT: Deep Scan Survey-N. Atlantic
Vessel RV ATLANTIS II Cruise 11
Agency Woods Hole Oceanographic Institution.

Date: June 19-29, 1964
NGDC File No. 00028

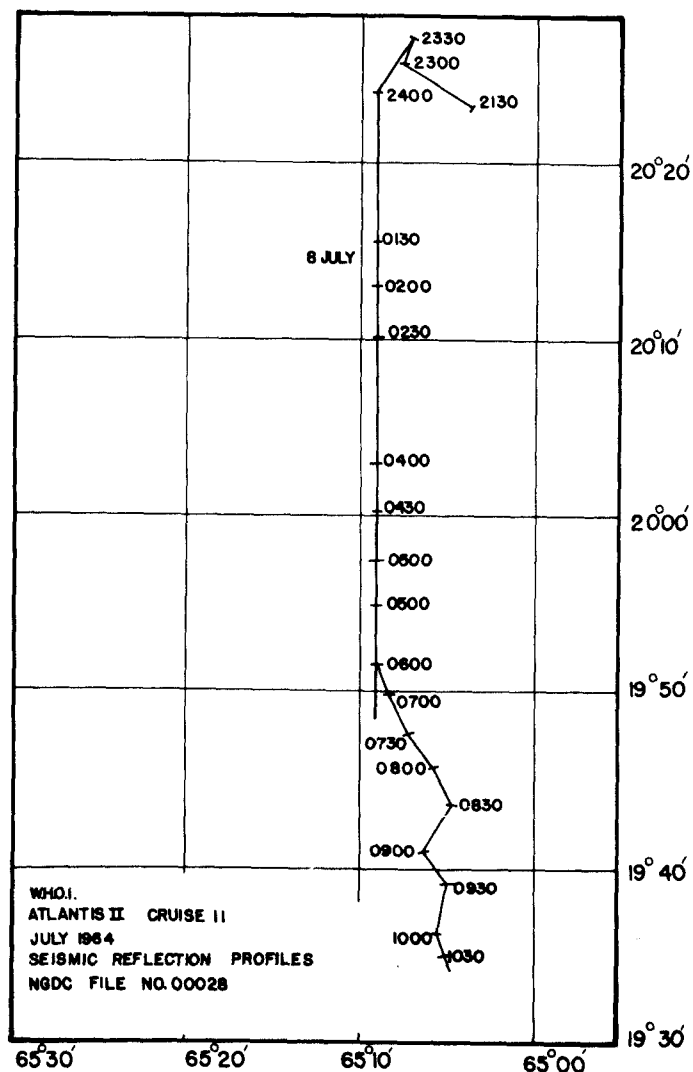


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry			X		
Gravity					
Magnetic					
Seismic		X			

Remarks:

PROJECT: Deep Scan Survey-N. Atlantic
 Vessel RV ATLANTIC II Cruise 11
 Agency Woods Hole Oceanographic Institution.

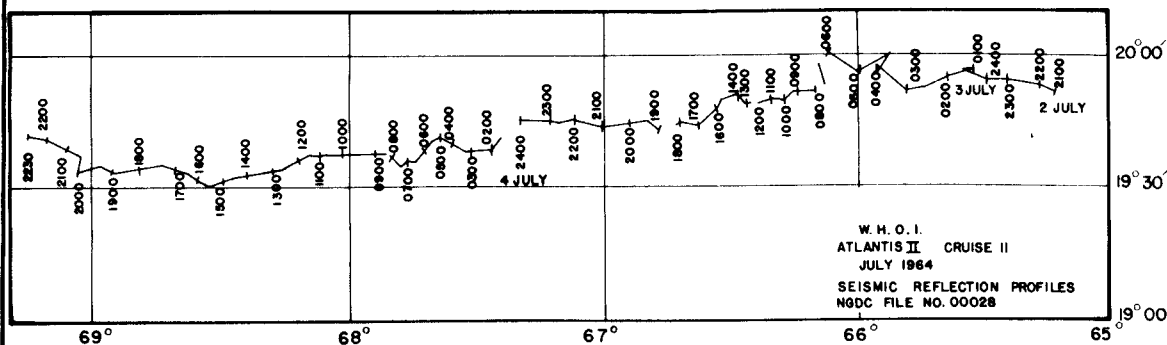
Date: July-Aug., 1964
 NGDC File No. 00028



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry			X		
Gravity					
Magnetic					
Seismic		X			
Remarks:					

PROJECT: Deep Scan Survey-N. Atlantic
Vessel RV ATLANTIS II Cruise 11
Agency Woods Hole Oceanographic Institution.

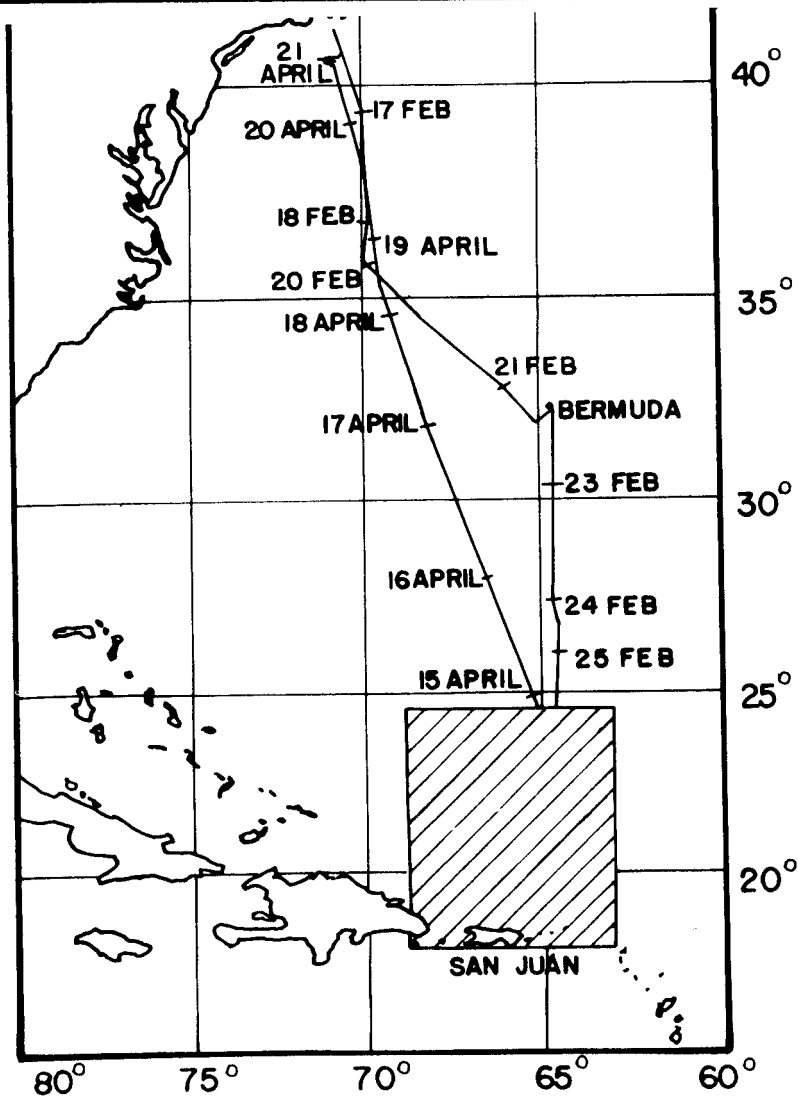
Date: July 2-15, 1964
NGDC File No. 00028



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry			X		
Gravity					
Magnetic					
Seismic		X			
Remarks:					

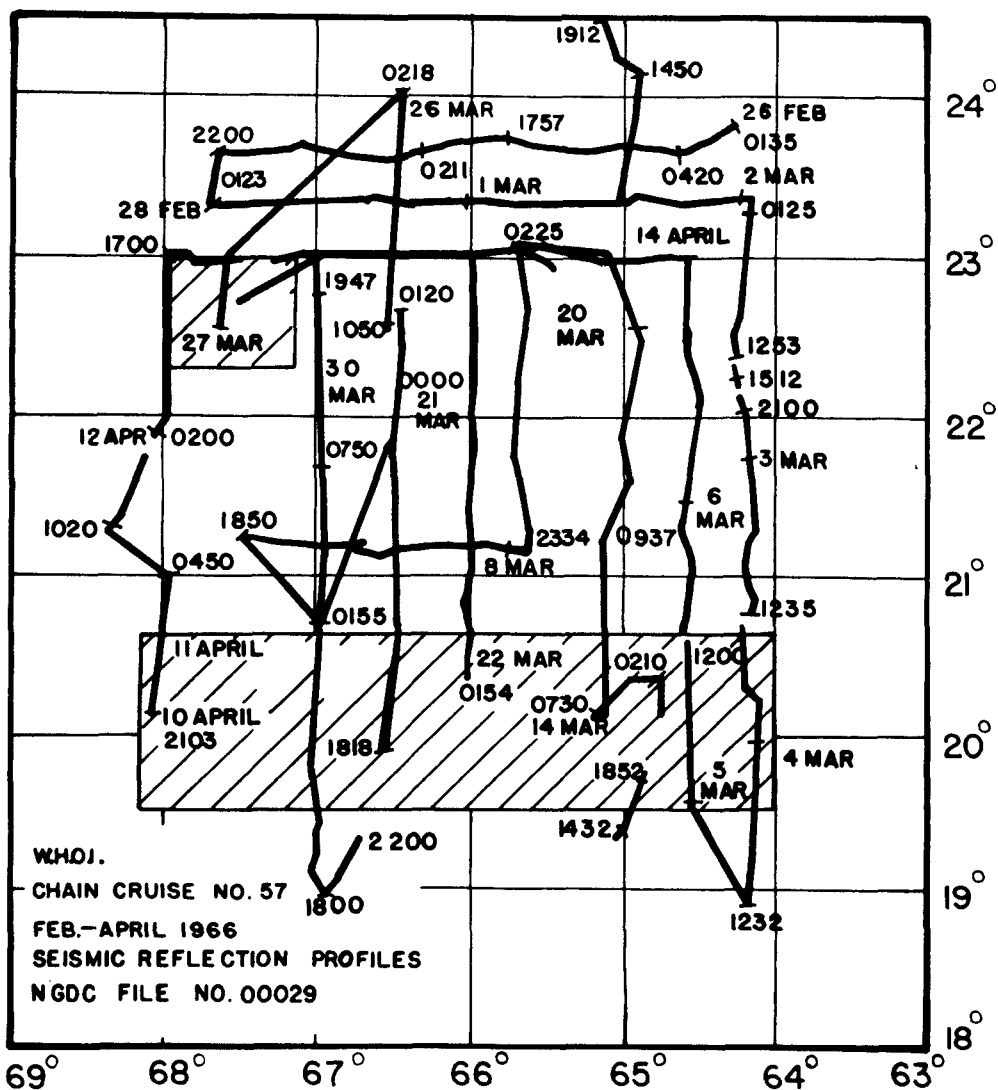
PROJECT: Deep Scan Survey-N. Atlantic
Vessel RV ATLANTIC II Cruise 11
Agency Woods Hole Oceanographic Institution.

Date: July 2-15, 1964
NGDC File No. 00028



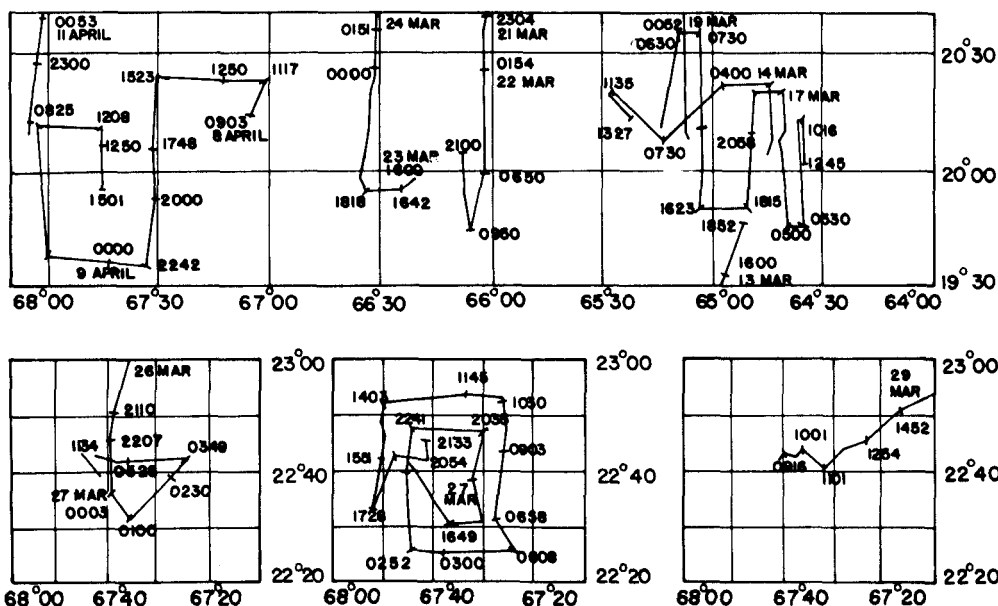
AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry			X		
Gravity					
Magnetic					
Seismic		X			
Remarks:					

PROJECT: Woods Hole-Puerto Rico & Return **Date:** Feb.-April, 1966
Vessel RV CHAIN Cruise 57
Agency Woods Hole Oceanographic Institution. **NGDC File No.** 00029



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry			X		
Gravity					
Magnetic					
Seismic		X			
Remarks:					

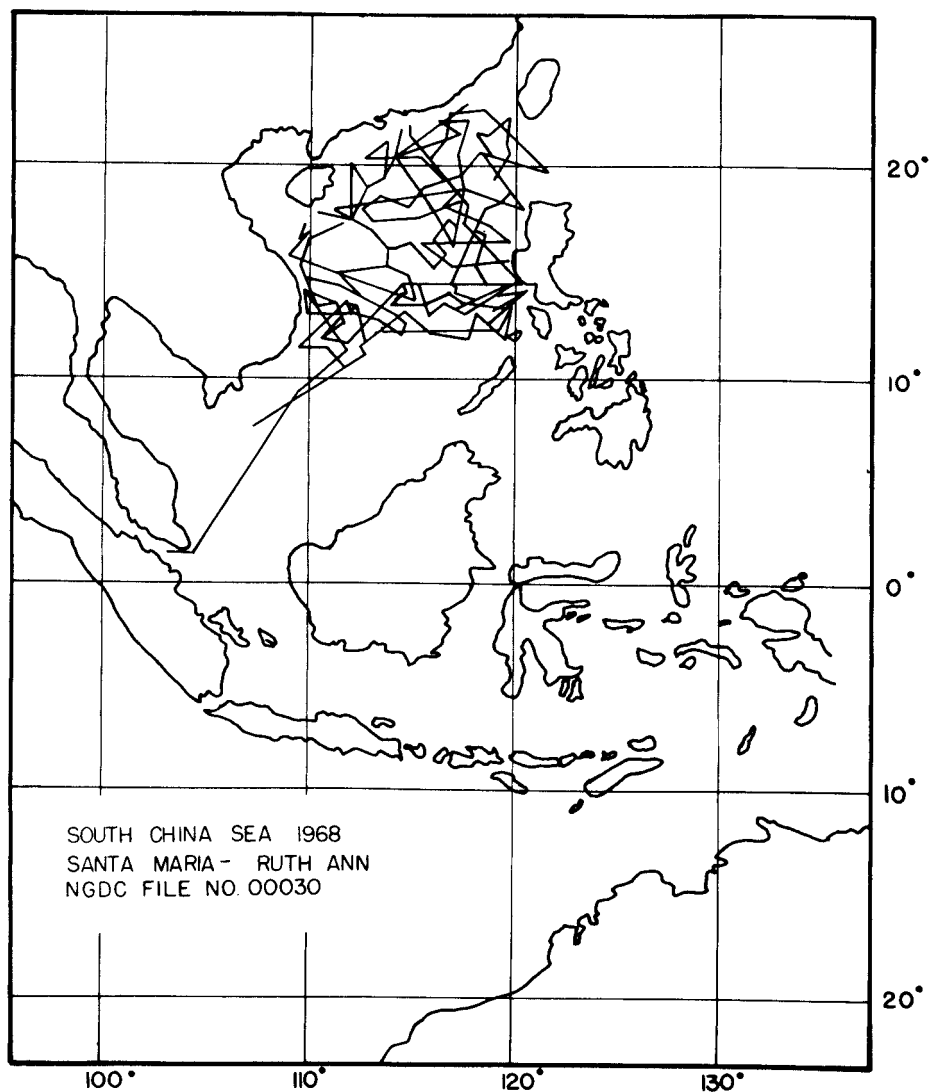
PROJECT: Woods Hole-Puerto Rico & Return Date: Feb.-April, 1966
 Vessel RV CHAIN Cruise 57
 Agency Woods Hole Oceanographic Institution. NGDC File No. 00029



W.H.O.I.
CHAIN CRUISE NO. 57
FEB.-APRIL 1966
SEISMIC REFLECTION PROFILES
NGDC FILE NO. 00029

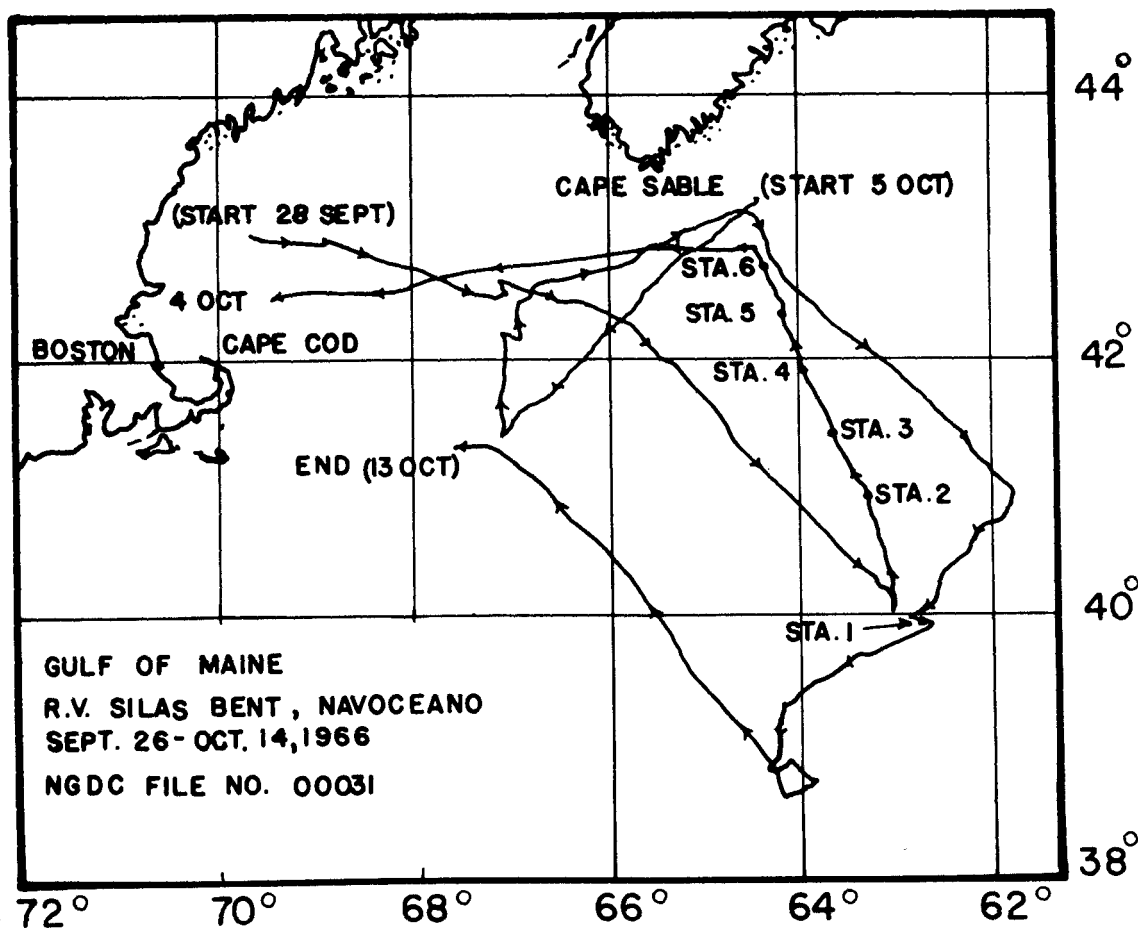
AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry			X		
Gravity					
Magnetic					
Seismic		X			
Remarks:					

PROJECT: Woods Hole-Puerto Rico & return Date: Feb.-April, 1966
Vessel RV CHAIN Cruise 57
Agency Woods Hole Oceanographic Institution. NGDC File No. 00029



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry					
Gravity					
Magnetic					
Seismic		X			
Remarks:					

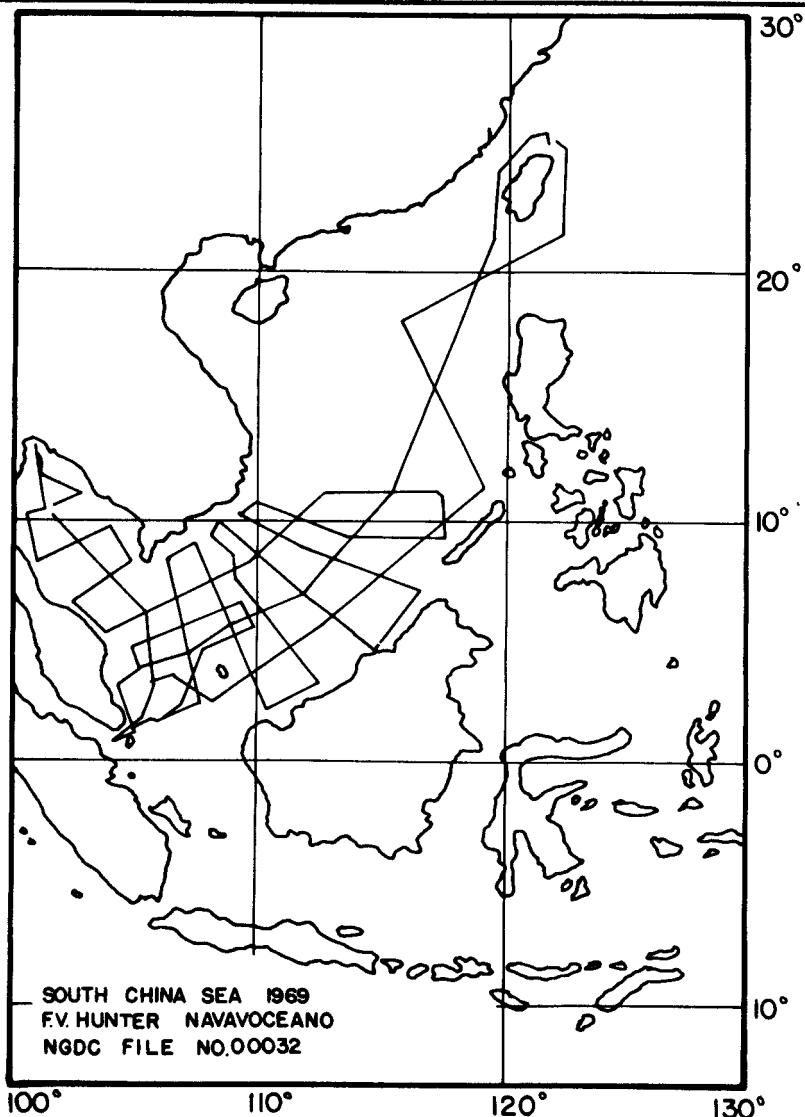
PROJECT:	South China Sea Task Area 15	Date: Sept.-Feb. 1967, 1968
Vessel	RV RUTH ANN & SANTA MARIA	
Agency	NAVOCEANO	NGDC File No. 00030
	Alpine Geophysical Associates	



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			P
Gravity					
Magnetic		X			P
Seismic		X			P
Remarks:					

PROJECT: Gulf of Maine
Vessel: RV SILAS BENT
Agency: NAVOCEANO

Date: Sept.-Oct., 1966
NGDC File No. 00031

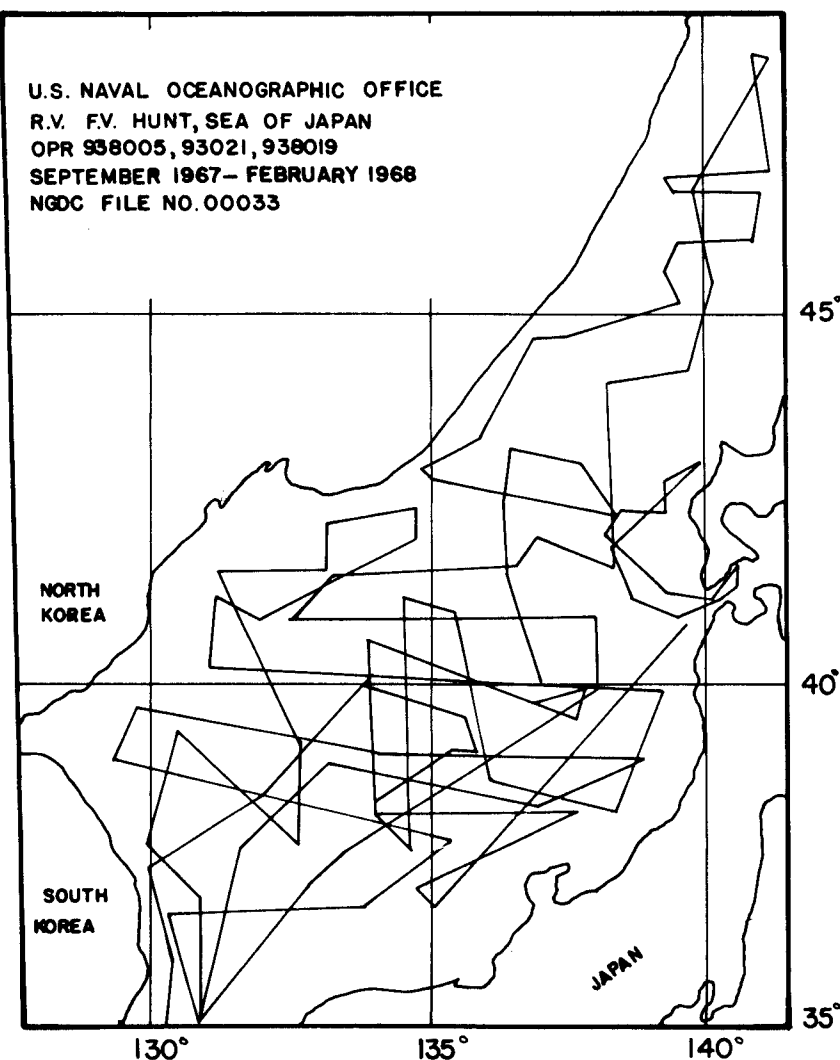


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry					
Gravity					
Magnetic					
Seismic		X			
Remarks:					

PROJECT: South China Sea
Vessel RV F. V. HUNT
Agency NAVOCEANO

Date: June-Aug., 1969
NGDC File No. 00032

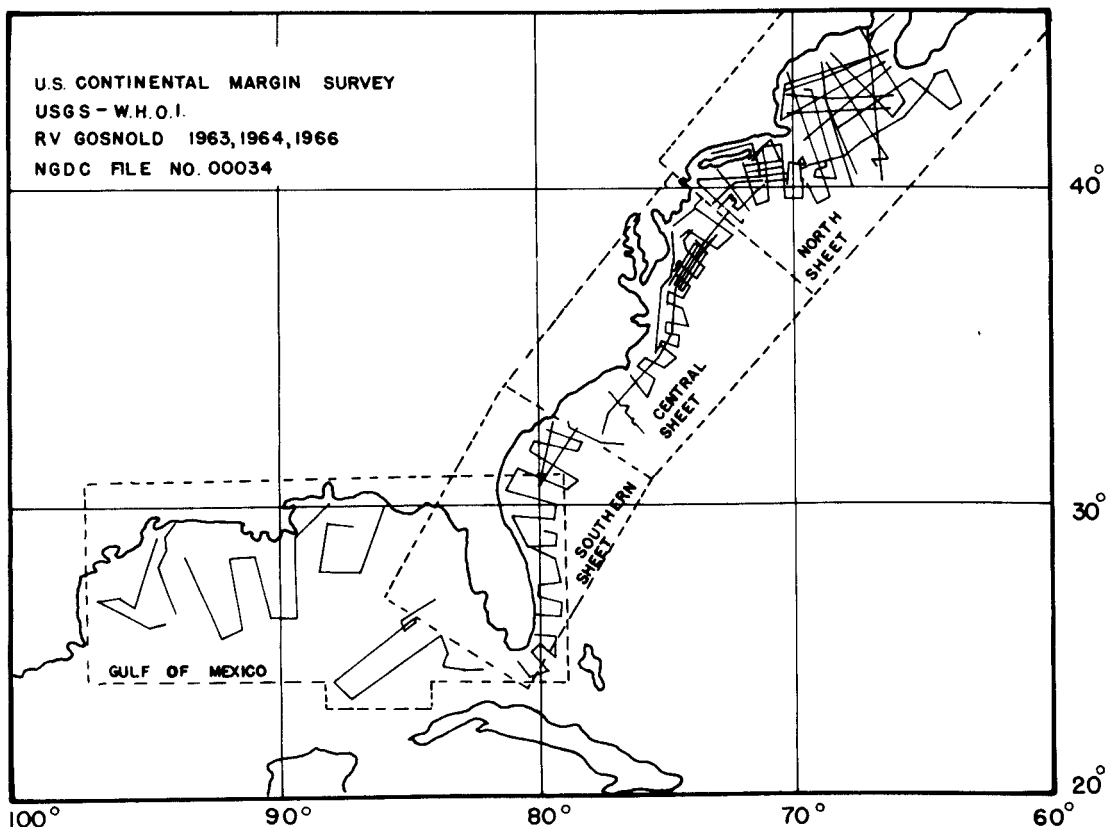
U.S. NAVAL OCEANOGRAPHIC OFFICE
 R.V. F.V. HUNT, SEA OF JAPAN
 OPR 938005, 93021, 938019
 SEPTEMBER 1967- FEBRUARY 1968
 NGDC FILE NO. 00033



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry			X		
Gravity					
Magnetic					
Seismic		X			
Remarks:					

PROJECT:	Sea of Japan OPR 93021	Date:	Sept.-Feb. 1967-
Vessel	RV F. V. HUNT OPR 938005, 938019		1968
Agency	NAVOCEANO	NGDC File No.	00033

U.S. CONTINENTAL MARGIN SURVEY
 USGS - W.H.O.I.
 RV GOSNOLD 1963, 1964, 1966
 NGDC FILE NO. 00034



AVAILABLE DATA:

Bathymetry
 Gravity
 Magnetic
 Seismic

Data
listing

Original
records

Data
plot

Magnetic
tape

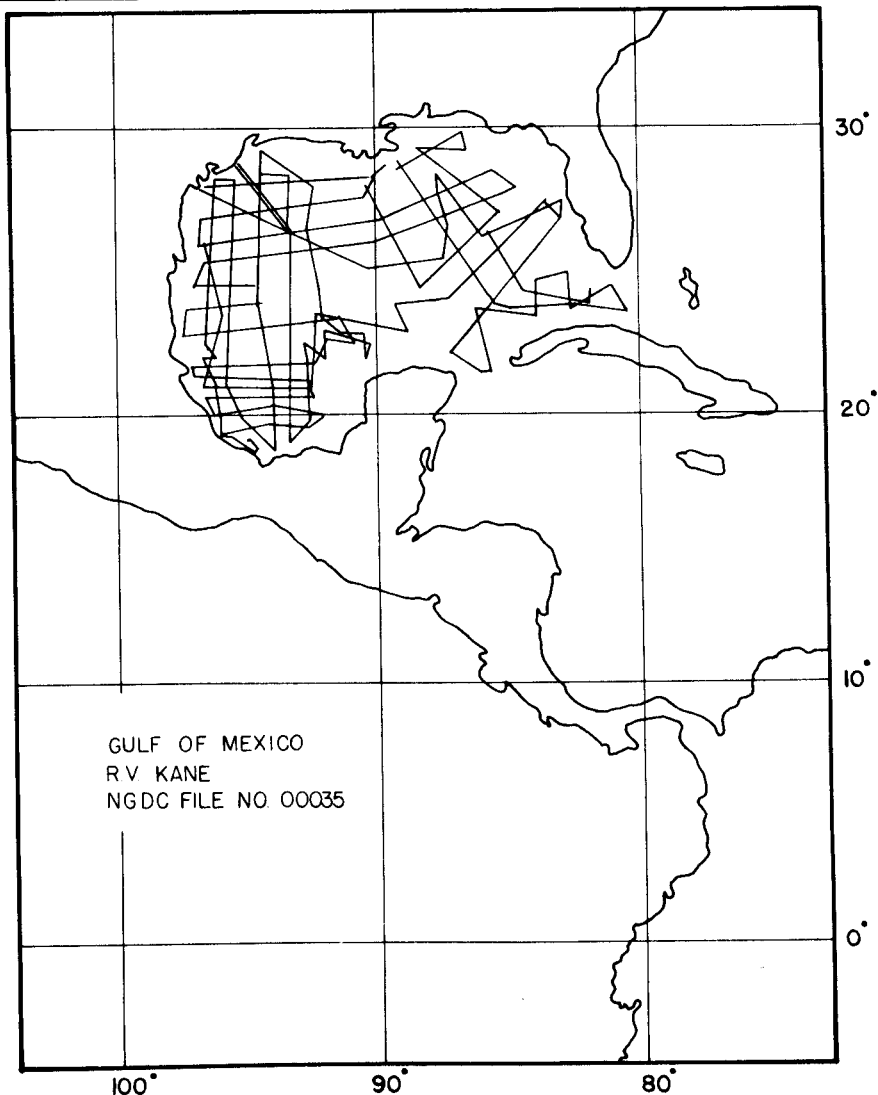
Other

X

Remarks:

PROJECT: US Continental Margin Survey
Vessel RV GOSNOLD
Agency US Geological Survey - Woods
 Hole Oceanographic Institution

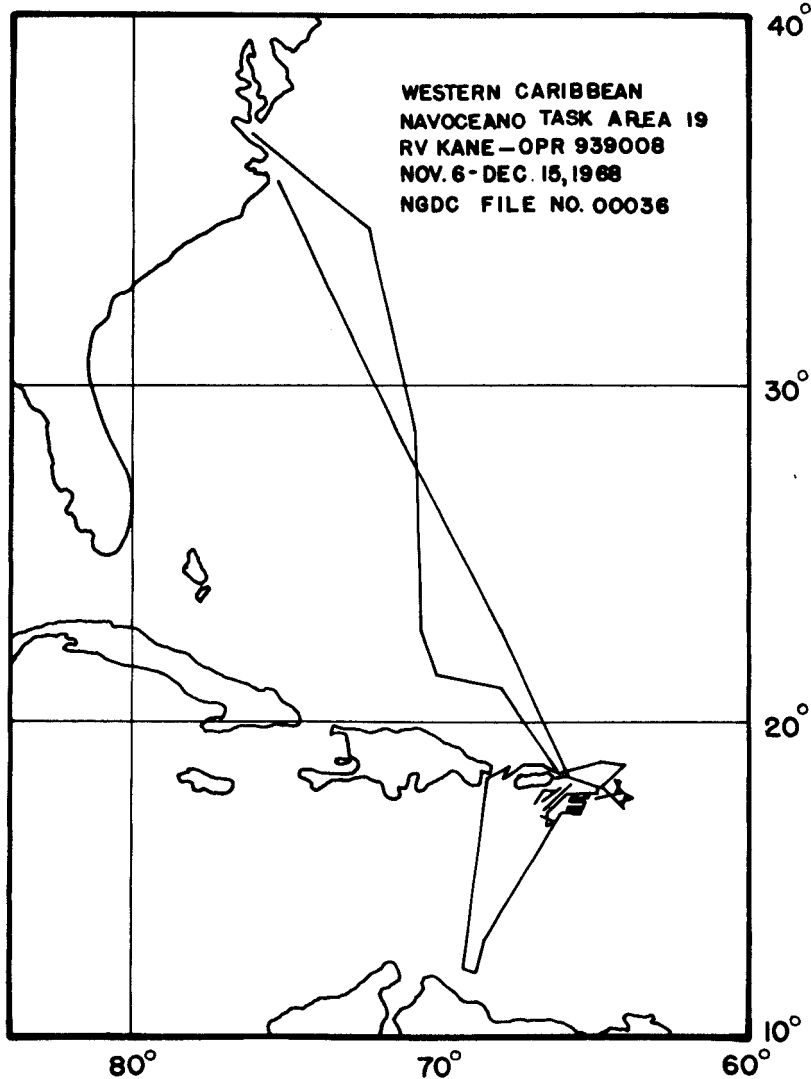
Date: 1963, 1964, 1966
NGDC File No. 00034



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			
Gravity					
Magnetic					
Seismic		X			
Remarks:					

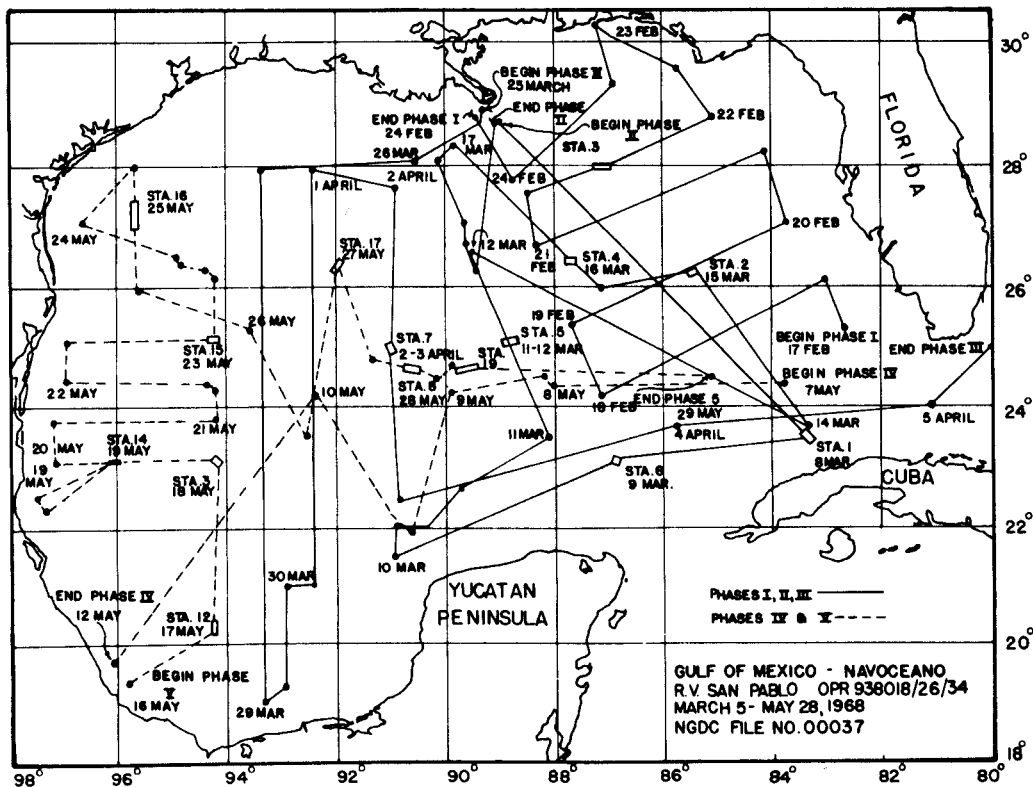
PROJECT: Gulf of Mexico Task Area 18
Vessel RV KANE OPR 939009
Agency NAVOCEANO

Date: Jan.-April, 1969
NGDC File No. 00035



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			
Gravity					
Magnetic					
Seismic		X			
Remarks:					

PROJECT: Western Caribbean Task Area 19 Date: Nov.-Dec., 1968
Vessel RV KANE OPR 939008
Agency NAVOCEANO NGDC File No. 00036



AVAILABLE DATA:

Bathymetry
Gravity
Magnetic
Seismic

Remarks:

Data
listing

Original
records

Data
plot

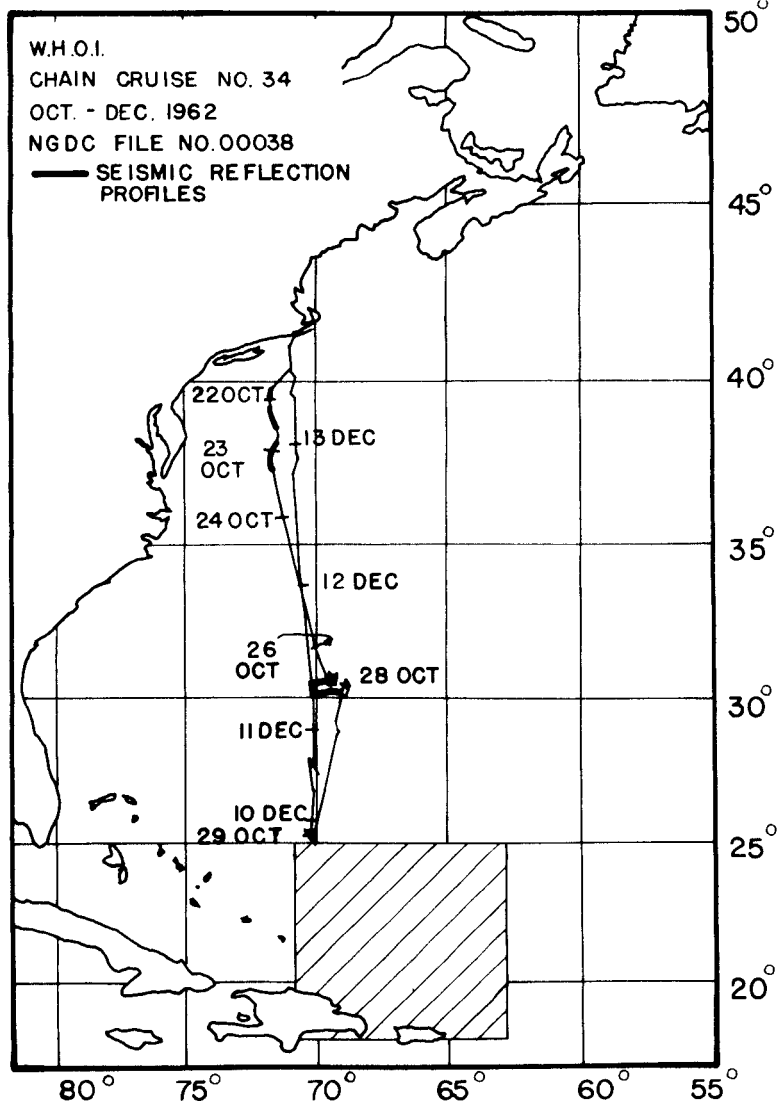
Magnetic
tape

Other

X

PROJECT: Gulf of Mexico
Vessel RV SAN PABLO OPR 938018/26/34
Agency NAVOCEANO

Date: March-May, 1968
NGDC File No. 00037

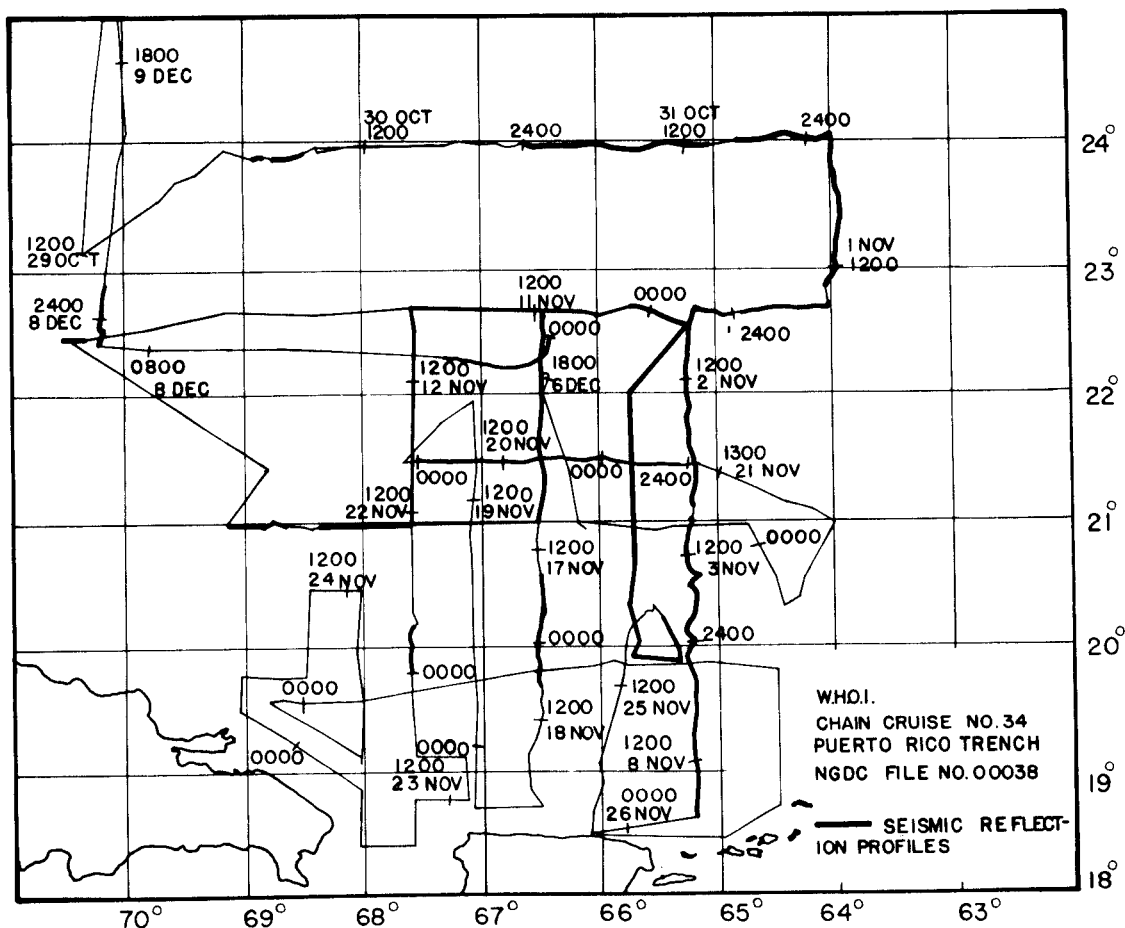


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry			X		
Gravity					
Magnetic					
Seismic		X			
Remarks:					

PROJECT: Puerto Rican Trench
Vessel RV CHAIN Cruise 34
Agency Woods Hole Oceanographic Institution.

Date: Oct.-Dec., 1962

NGDC File No. 00038



AVAILABLE DATA:

Bathymetry
Gravity
Magnetic
Seismic

Remarks:

Data
listing

Original
records

Data
plot

Magnetic
tape

Other

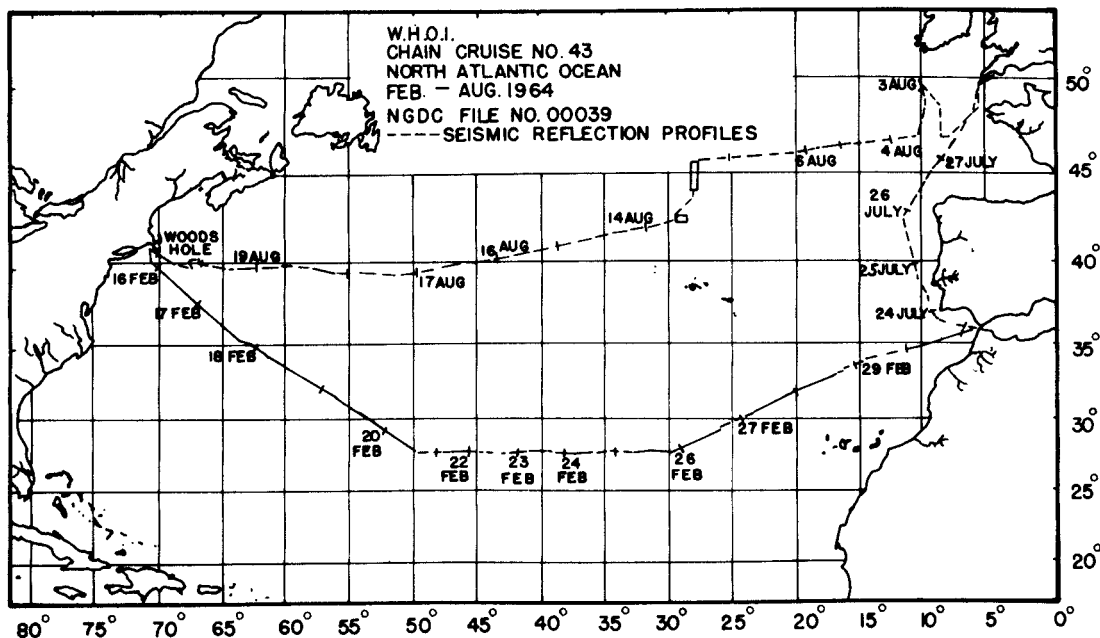
X

X

PROJECT: Puerto Rican Trench
Vessel: RV CHAIN Cruise 34
Agency: Woods Hole Oceanographic Institution.

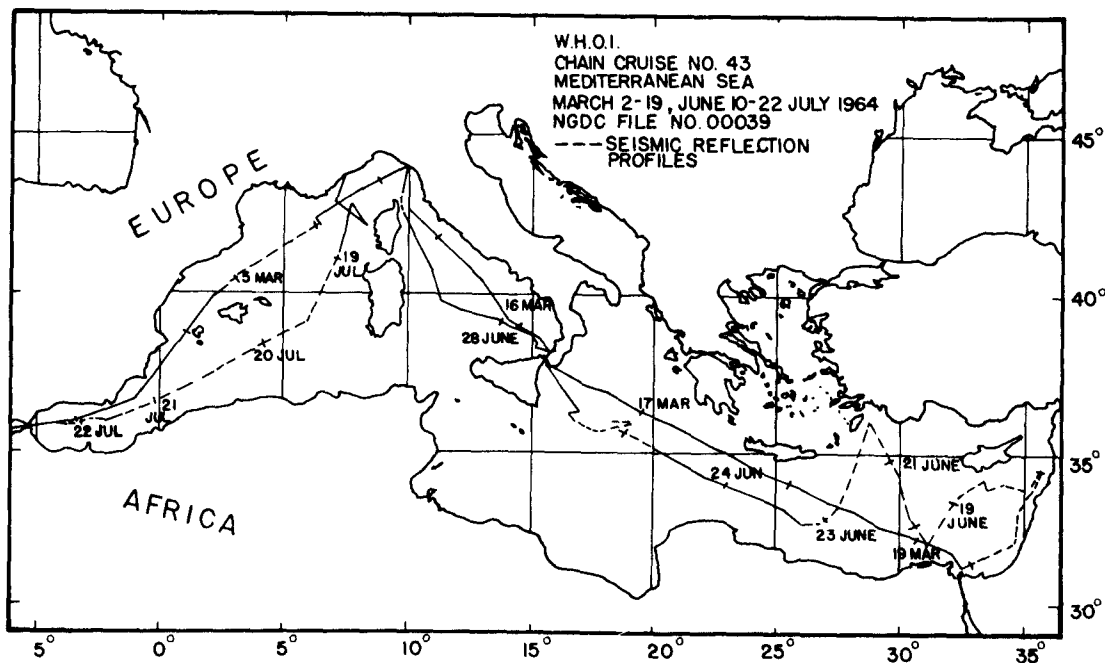
Date: Oct.-Dec., 1962

NGDC File No. 00038



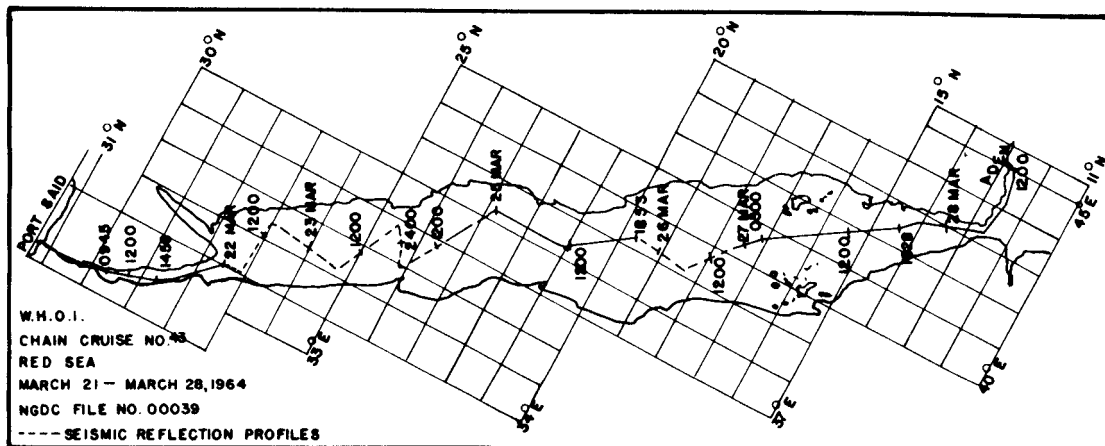
AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry			X		
Gravity					
Magnetic					
Seismic		X			
Remarks:					

PROJECT: Int'l. Indian Ocean Expedition Date: Feb.-Aug., 1964
 Vessel RV CHAIN Cruise 43
 Agency Woods Hole Oceanographic Institution. NGDC File No. 00039



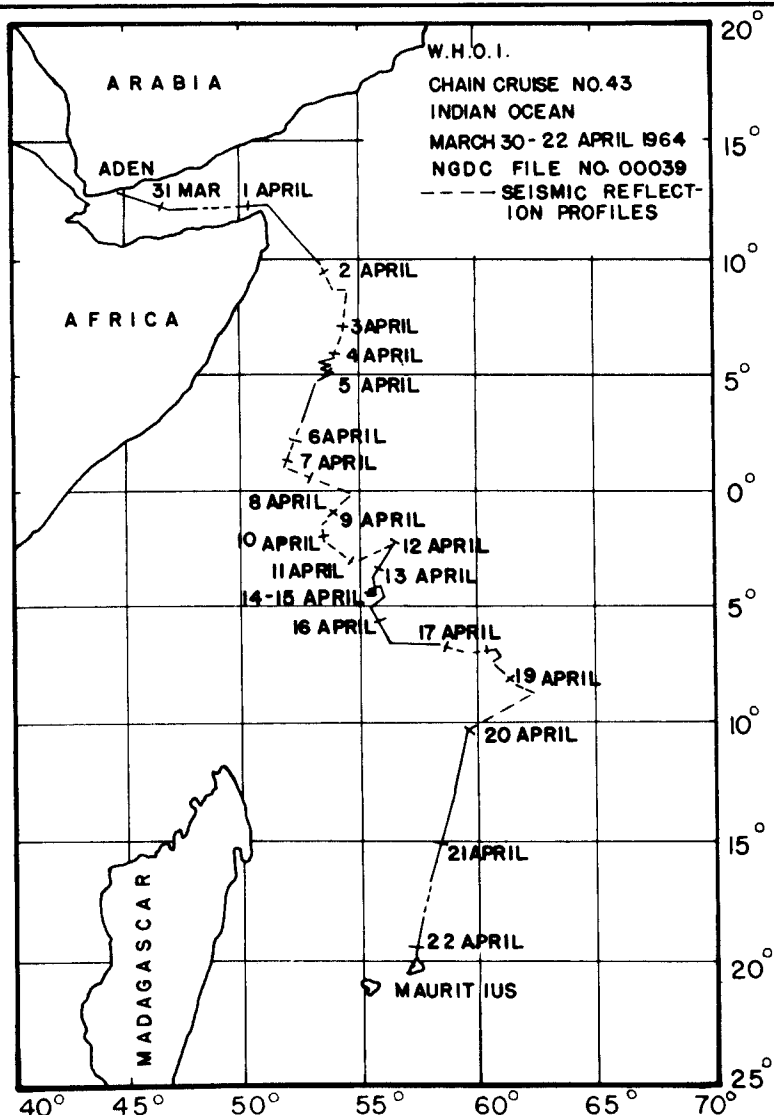
AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry			X		
Gravity					
Magnetic					
Seismic		X			
Remarks:					

PROJECT: Int'l. Indian Ocean Expedition **Date:** Feb.-Aug., 1964
Vessel RV CHAIN Cruise 43
Agency Woods Hole Oceanographic Institution. **NGDC File No.** 00039



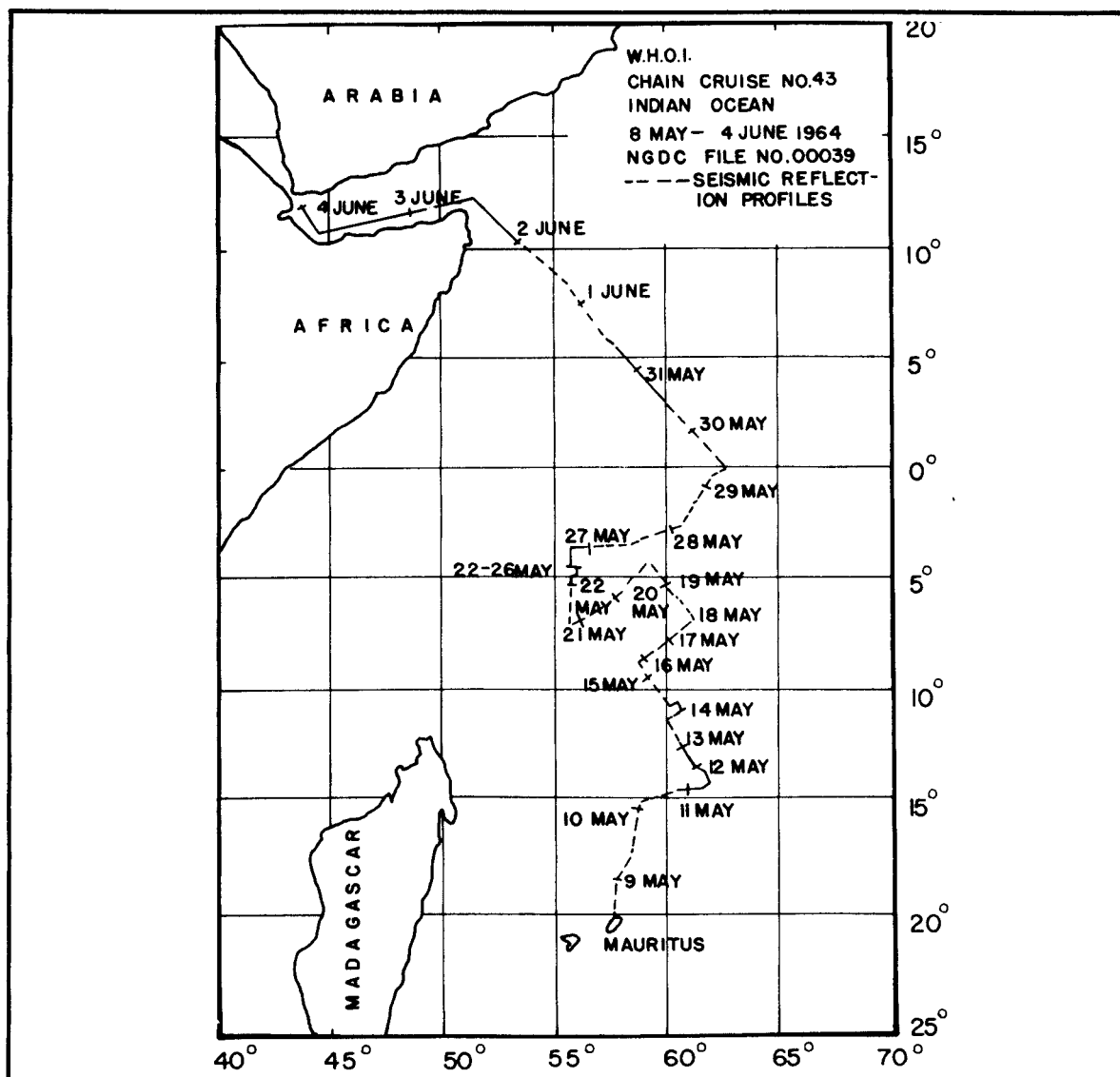
AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry			X		
Gravity					
Magnetic					
Seismic		X			
Remarks:					

PROJECT: Int'l. Indian Ocean Expedition Date: Feb.-Aug., 1964
Vessel RV CHAIN Cruise 43
Agency Woods Hole Oceanographic Institution. NGDC File No. 00039



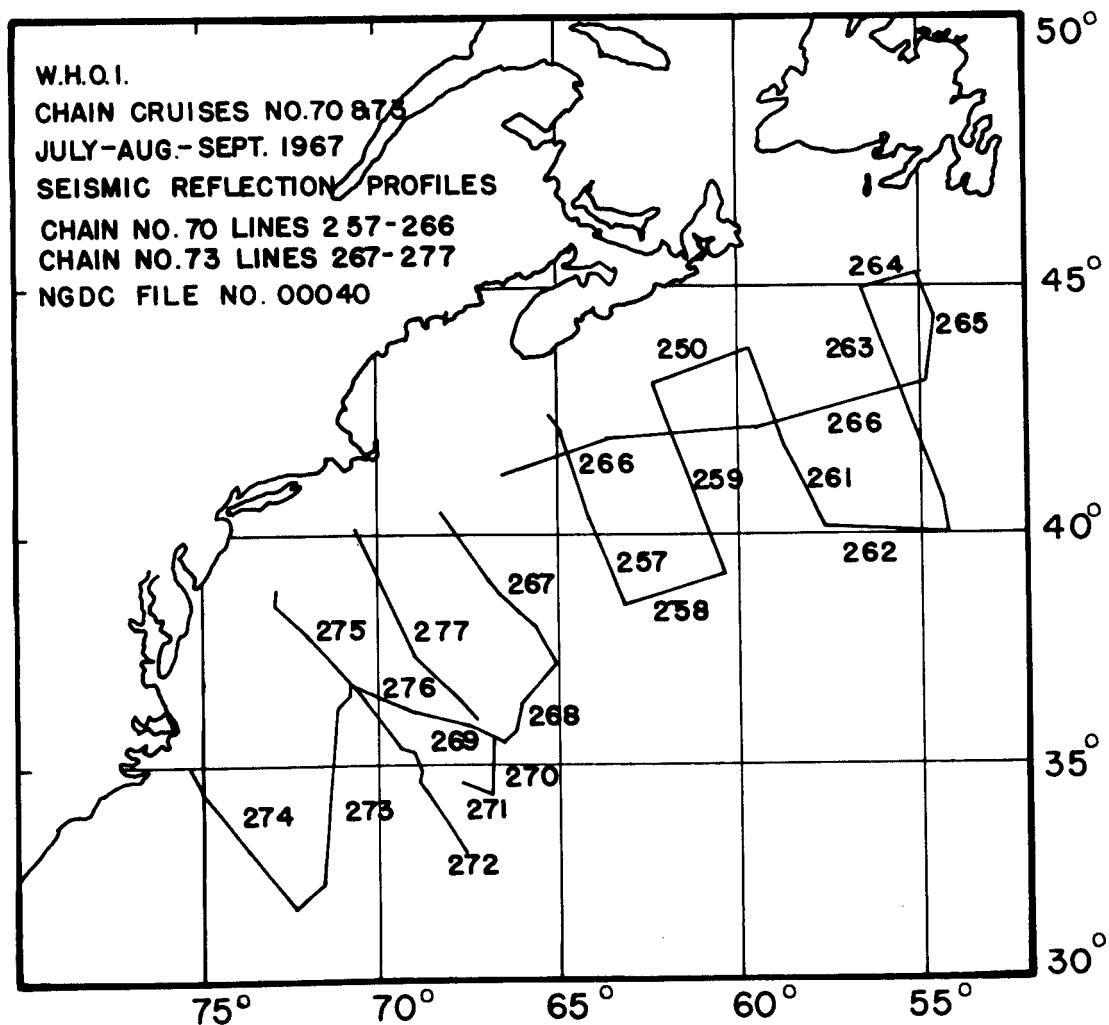
AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry			X		
Gravity					
Magnetic					
Seismic		X			
Remarks:					

PROJECT: Int'l. Indian Ocean Expedition Date: Feb.-Aug., 1964
 Vessel RV CHAIN Cruise 43
 Agency Woods Hole Oceanographic Institution. NGDC File No. 00039



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry			X		
Gravity					
Magnetic					
Seismic		X			
Remarks:					

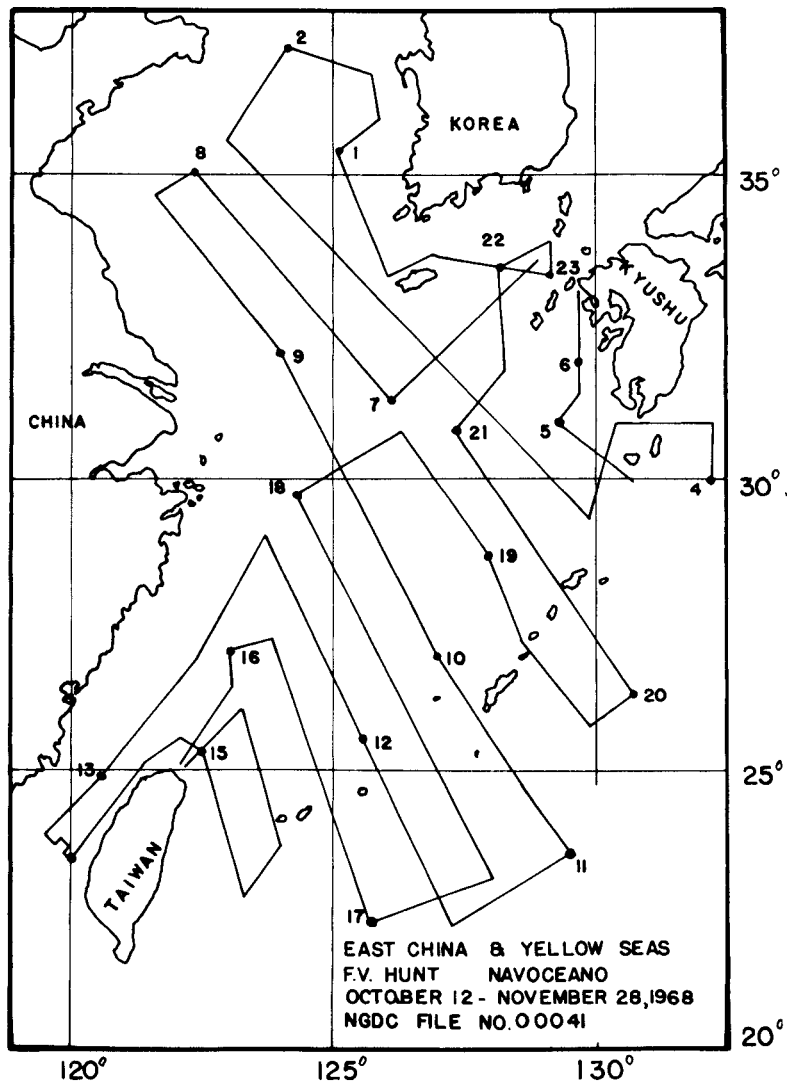
PROJECT: Int'l. Indian Ocean Expedition Date: Feb.-Aug., 1964
 Vessel RV CHAIN Cruise 43
 Agency Woods Hole Oceanographic Institution. NGDC File No. 00039



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry			X		
Gravity					
Magnetic			X		
Seismic		X			
Remarks:					

PROJECT: Georges Bank-Cape Hatteras
Vessel RV CHAIN Cruises 70 and 73
Agency Woods Hole Oceanographic Institution.

Date: July-Aug.-Sept., 1967.
NGDC File No. 00040

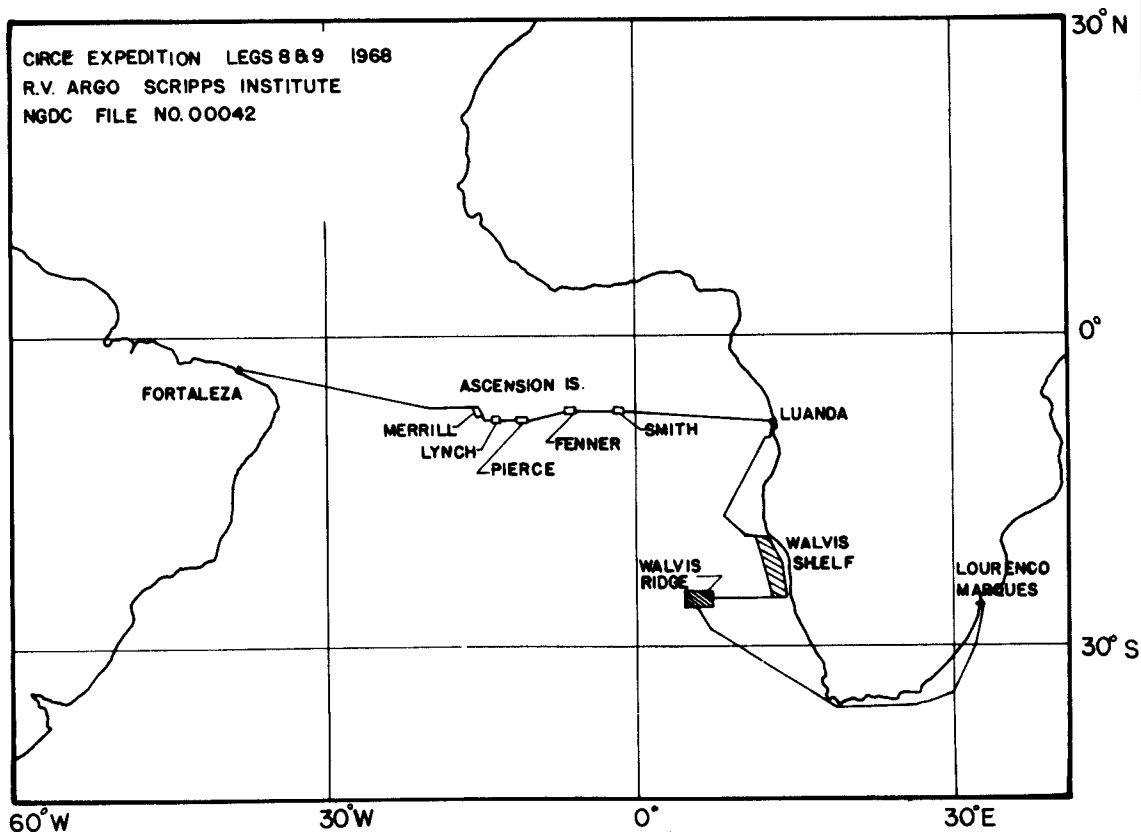


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry					
Gravity					
Magnetic					
Seismic		X			P
Remarks:					

PROJECT: East China and Yellow Seas
Vessel RV F. V. HUNT
Agency NAVOCEANO

Date: Oct.-Nov., 1968
NGDC File No. 00041

CIRCE EXPEDITION LEGS 8 & 9 1968
 R.V. ARGO SCRIPPS INSTITUTE
 NGDC FILE NO. 00042



AVAILABLE DATA:

Bathymetry
 Gravity
 Magnetic
 Seismic

Data
listing

Original
records

Data
plot

Magnetic
tape

Other

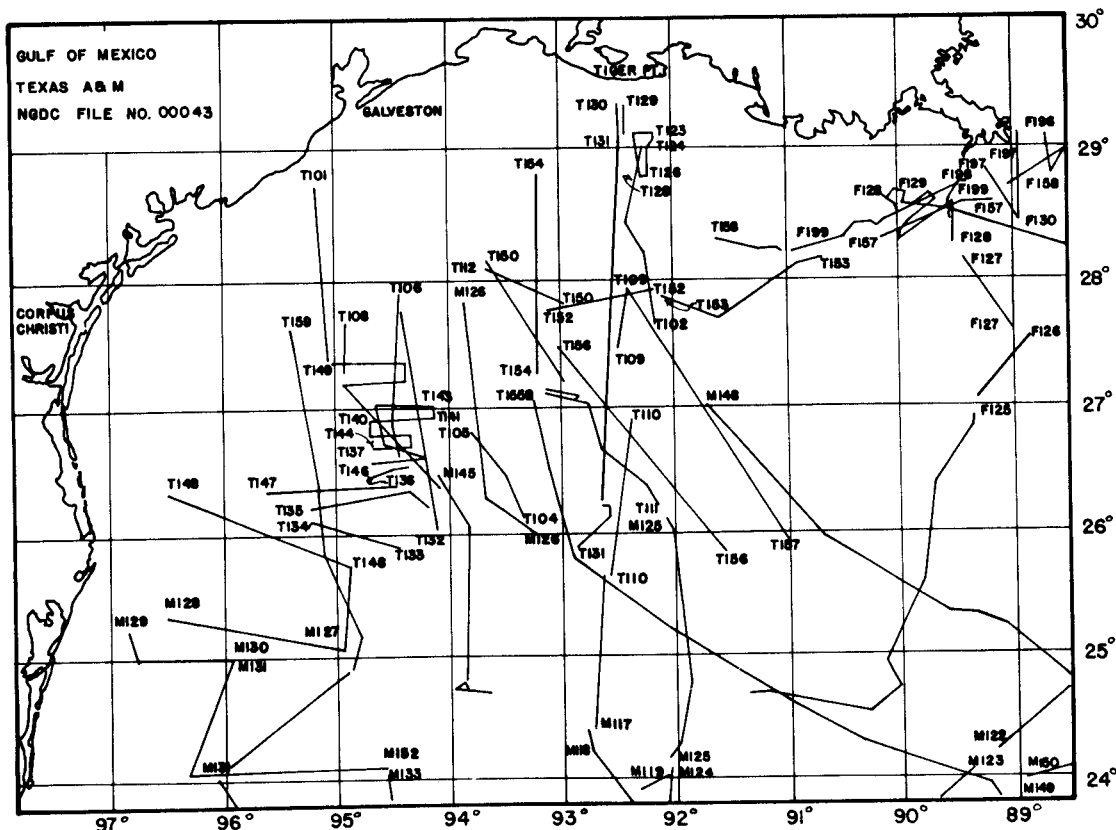
X

X

X

Remarks:

PROJECT: Circe Expedition. Legs 8 and 9 **Date:** Oct.-Dec., 1968
Vessel RV ARGO
Agency Scripps Institution of Oceanography. **NGDC File No.** 00042



AVAILABLE DATA:

Bathymetry
Gravity
Magnetic
Seismic

Data
listing

Original
records

Data
plot

Magnetic
tape

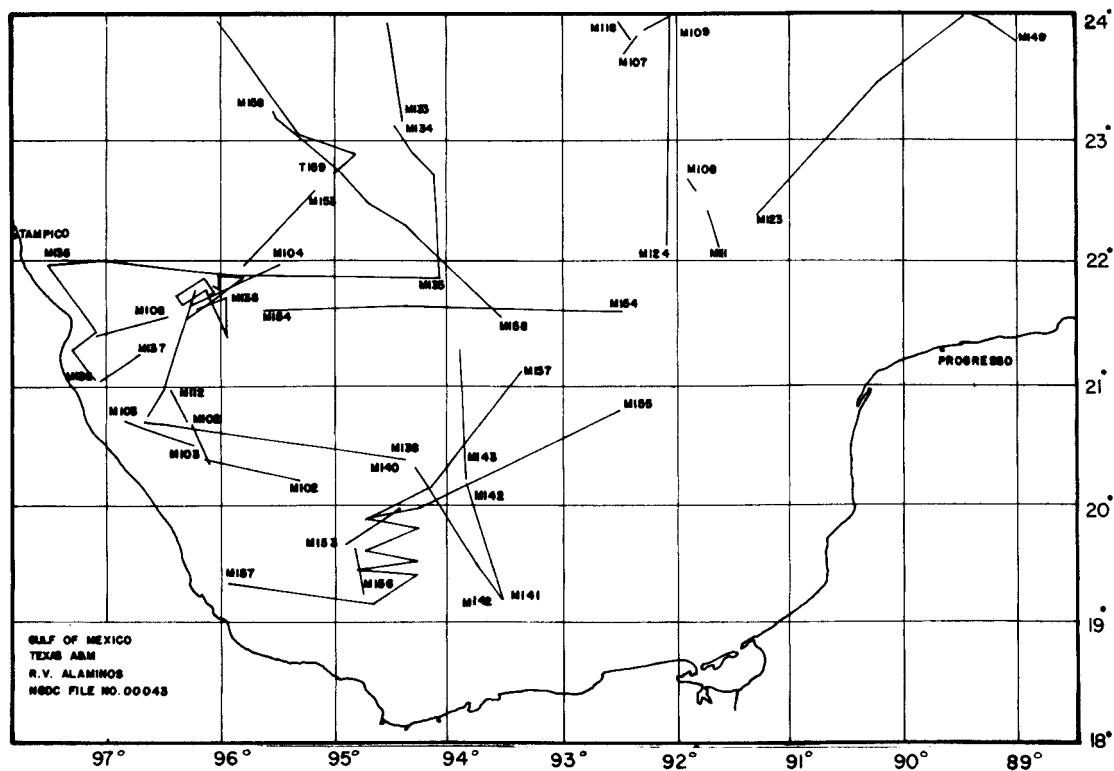
Other

X

Remarks:

PROJECT: Gulf of Mexico
Vessel: RV ALAMINOS
Agency: Texas A & M

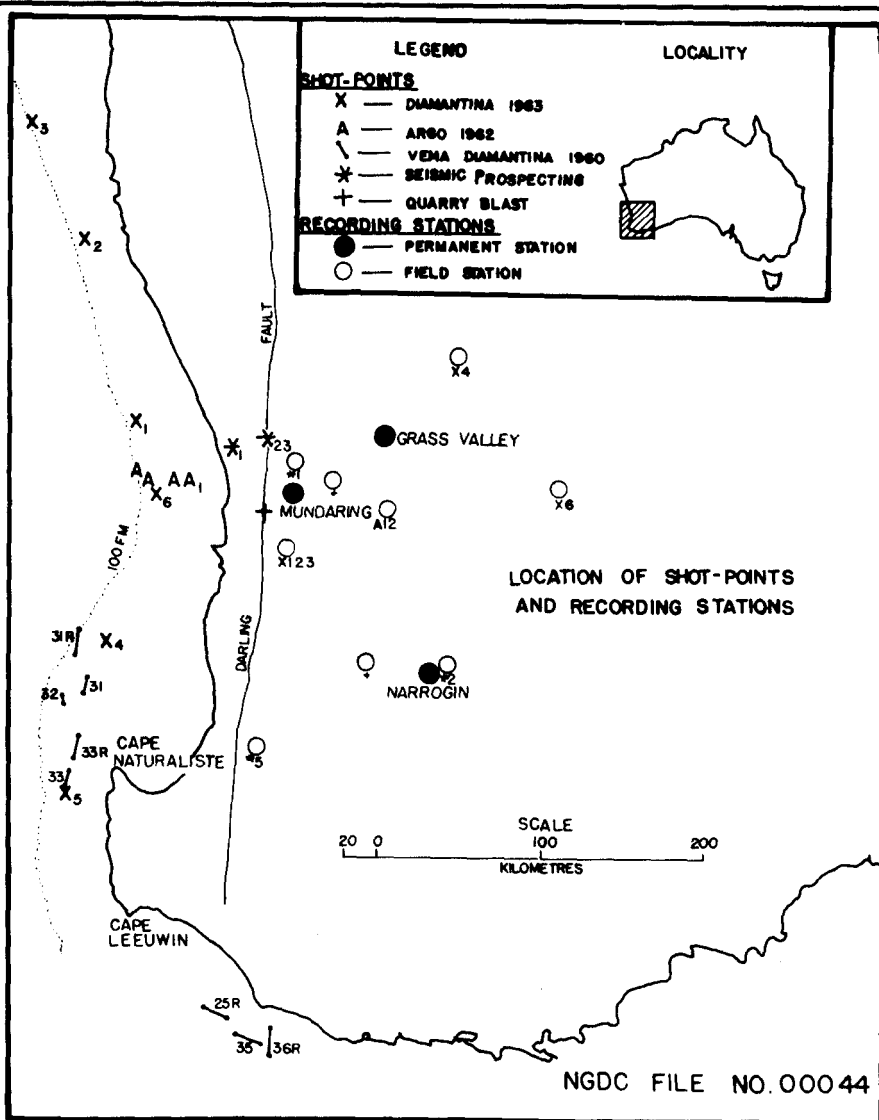
Date: 1964, 1967-70
NGDC File No. 00043



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry					
Gravity					
Magnetic					
Seismic		X			
Remarks:					

PROJECT: Gulf of Mexico
Vessel RV ALAMINOS
Agency Texas A & M

Date: 1964, 1967-70
NGDC File No. 00043



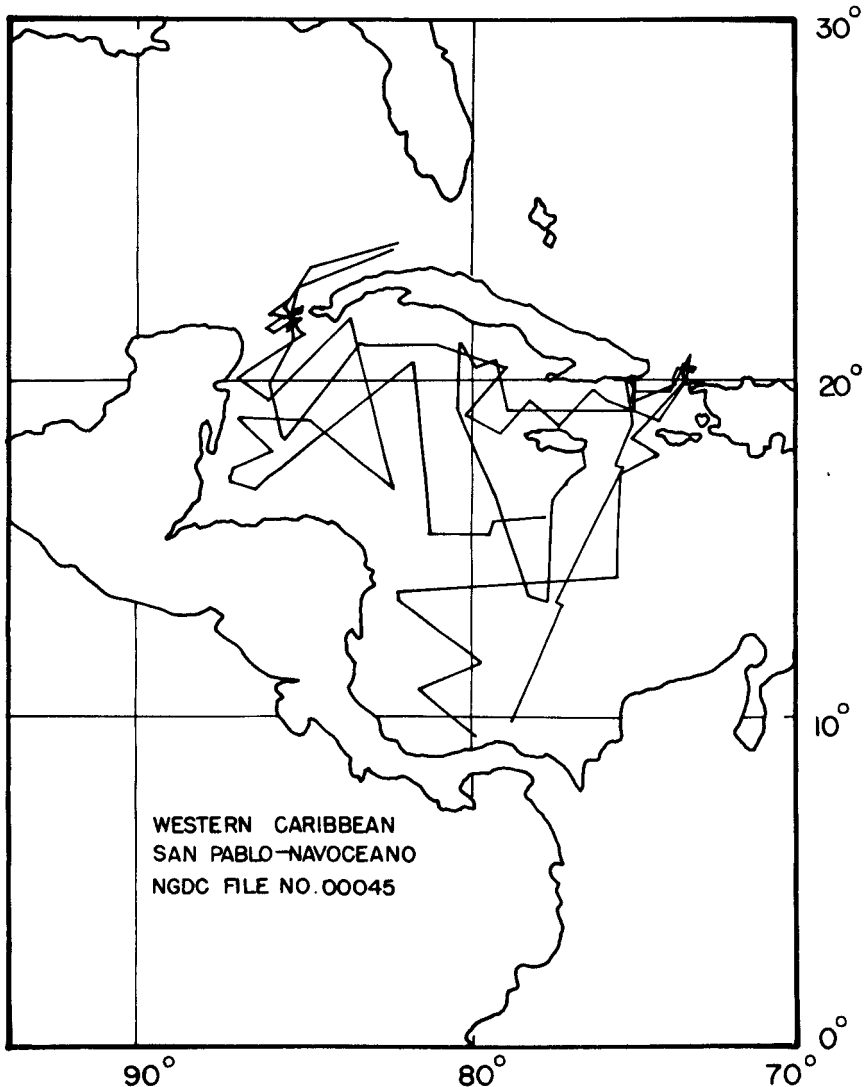
AVAILABLE DATA:	<u>Data</u> <u>listing</u>	<u>Original</u> <u>records</u>	<u>Data</u> <u>plot</u>	<u>Magnetic</u> <u>tape</u>	<u>Other</u>
Bathymetry					
Gravity					
Magnetic					
Seismic	X*				

Remarks: *Tabulated Seismic Refraction.

PROJECT: Perth Basin-West Australia
Vessel RV VEMA and RV DIAMANTINA
Agency Mundaring Geophysical
 Observatory.

Date: 1960-1963

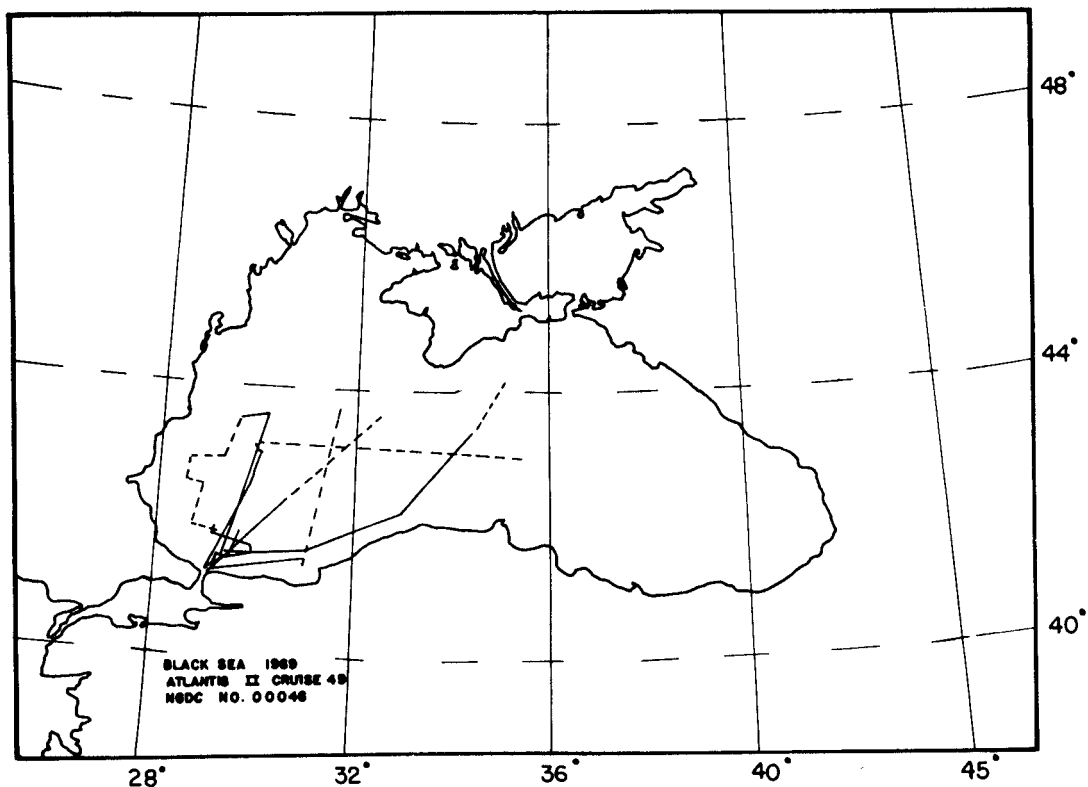
NGDC File No. 00044



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry					
Gravity					
Magnetic					
Seismic		X			
Remarks:					

PROJECT: Western Caribbean
 Vessel RV SAN PABLO OPR 939003
 Agency NAVOCEANO

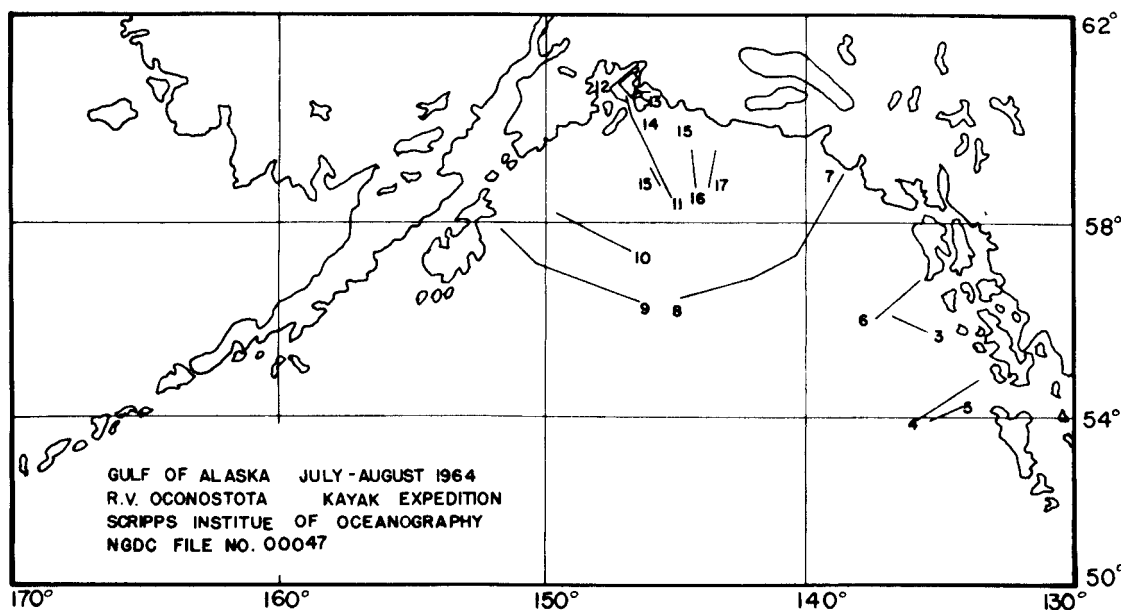
Date: Aug.-Oct., 1968
 NGDC File No. 00045



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			
Gravity					
Magnetic					
Seismic					
Remarks:					

PROJECT: Naples-Istanbul-Black Sea
Vessel ATLANTIS II Cruise 49
Agency Woods Hole Oceanographic Institution.

Date: March-May, 1969
NGDC File No. 00046



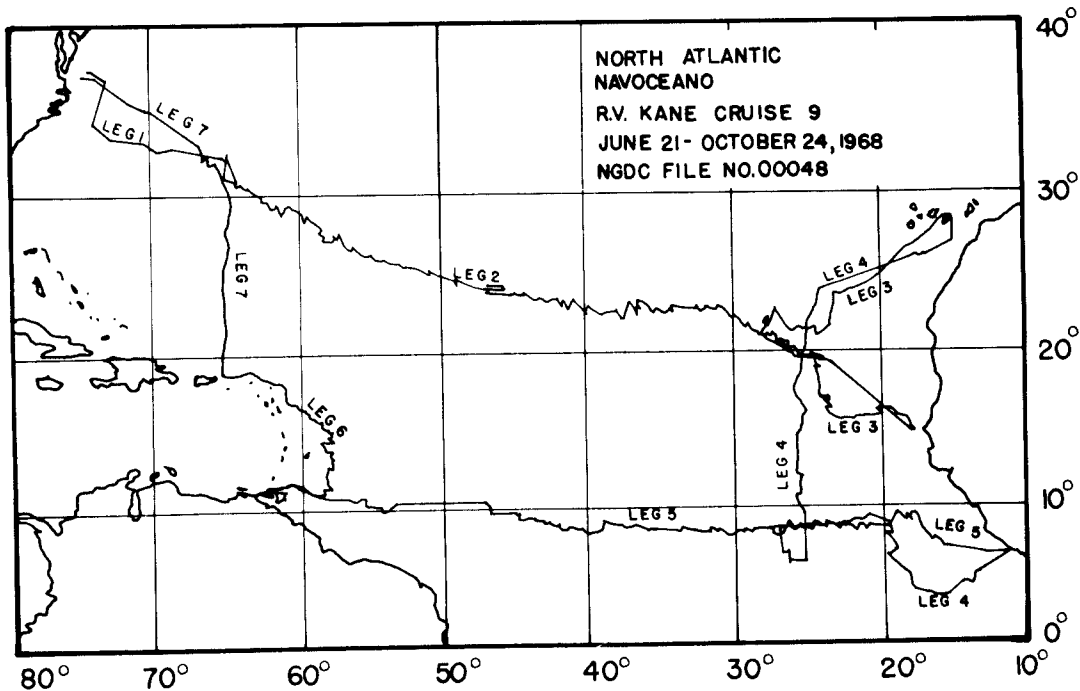
AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry					
Gravity					
Magnetic					
Seismic		X			

Remarks:

PROJECT: KAYAK Exped.-Gulf of Alaska
 Vessel RV OCONOSTOTA
 Agency Scripps Institution of Oceanography.

Date: July-Aug., 1964

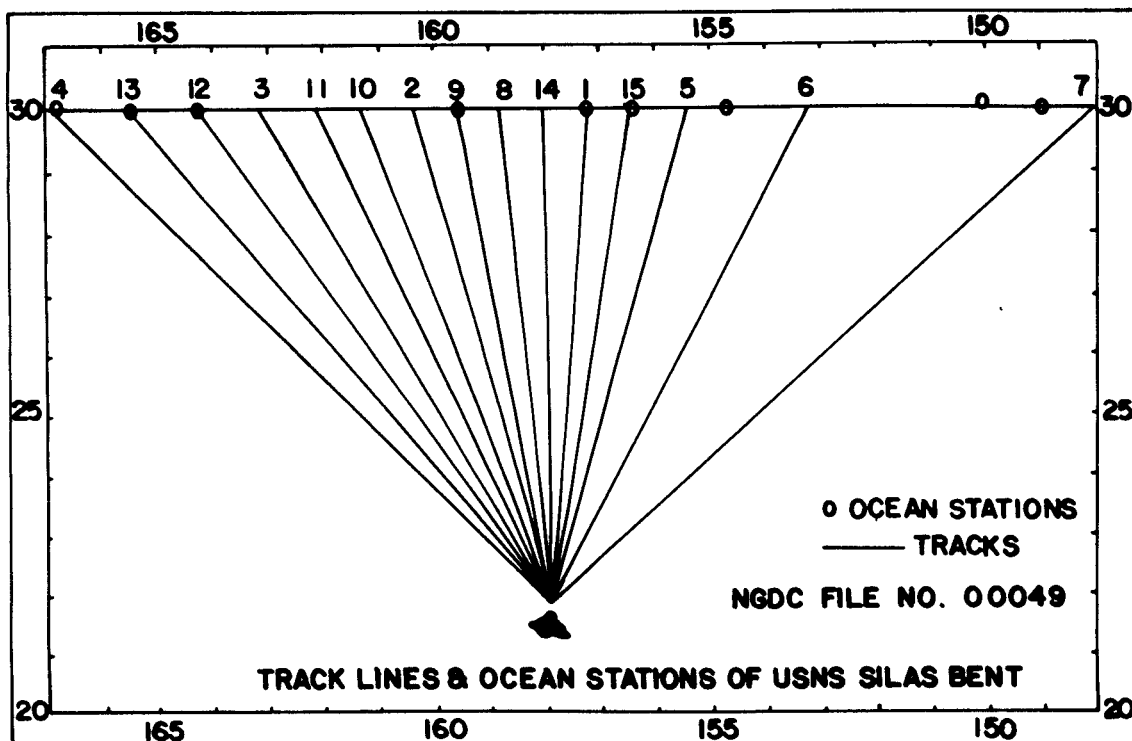
NGDC File No. 00047



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry			X		P
Gravity					
Magnetic			X		P
Seismic		X			P

Remarks:

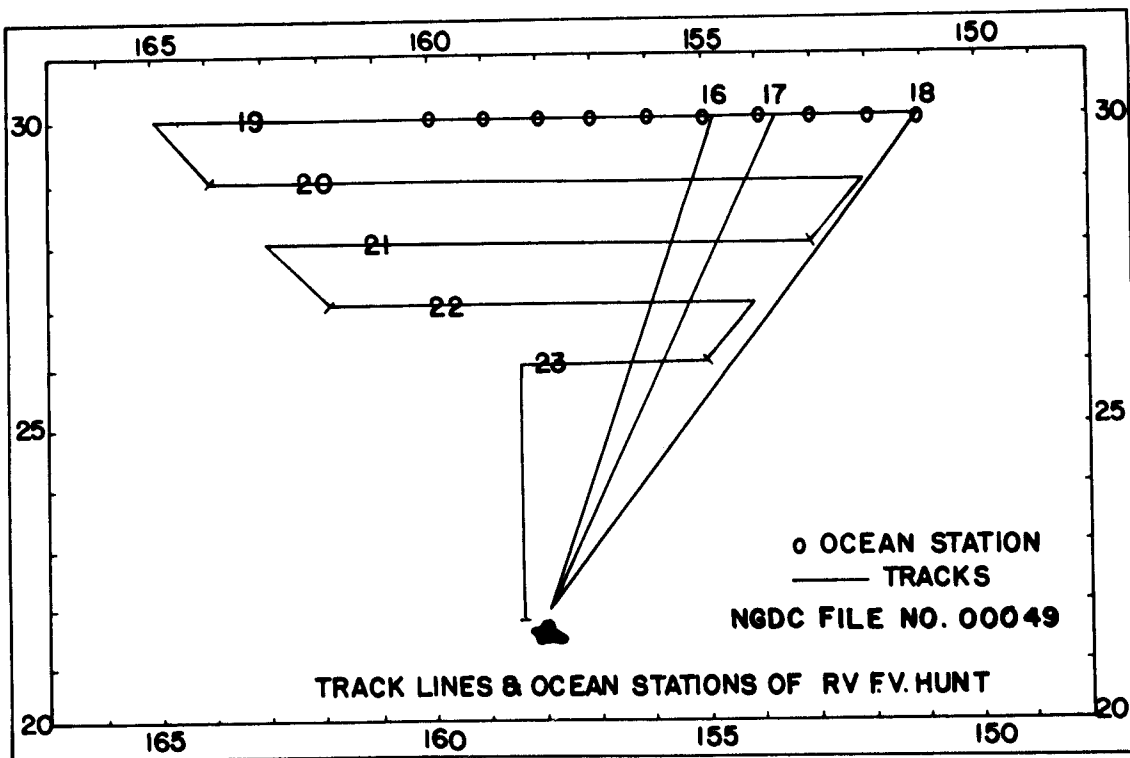
PROJECT: Norfolk-Bermuda-Dakar-Canary Is.
Liberia-Trinidad-Washington Date: June-Oct., 1968
Vessel USNS KANE Cruise 9
Agency NAVOCEANO NGDC File No. 00048



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			
Gravity					
Magnetic					
Seismic		X			
Remarks:					

PROJECT: Hawaiian Survey
Vessel RV SILAS BENT
Agency NAVOCEANO

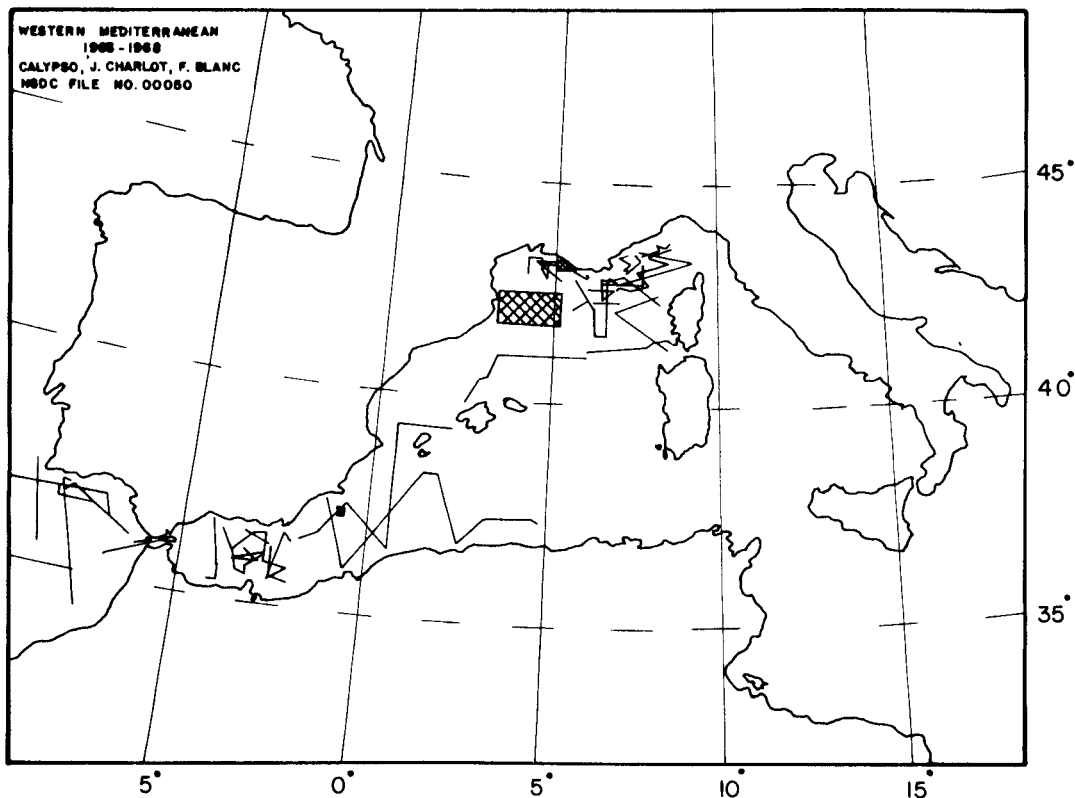
Date: Feb.-March, 1967
NGDC File No. 00049



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			
Gravity					
Magnetic					
Seismic		X			
Remarks:					

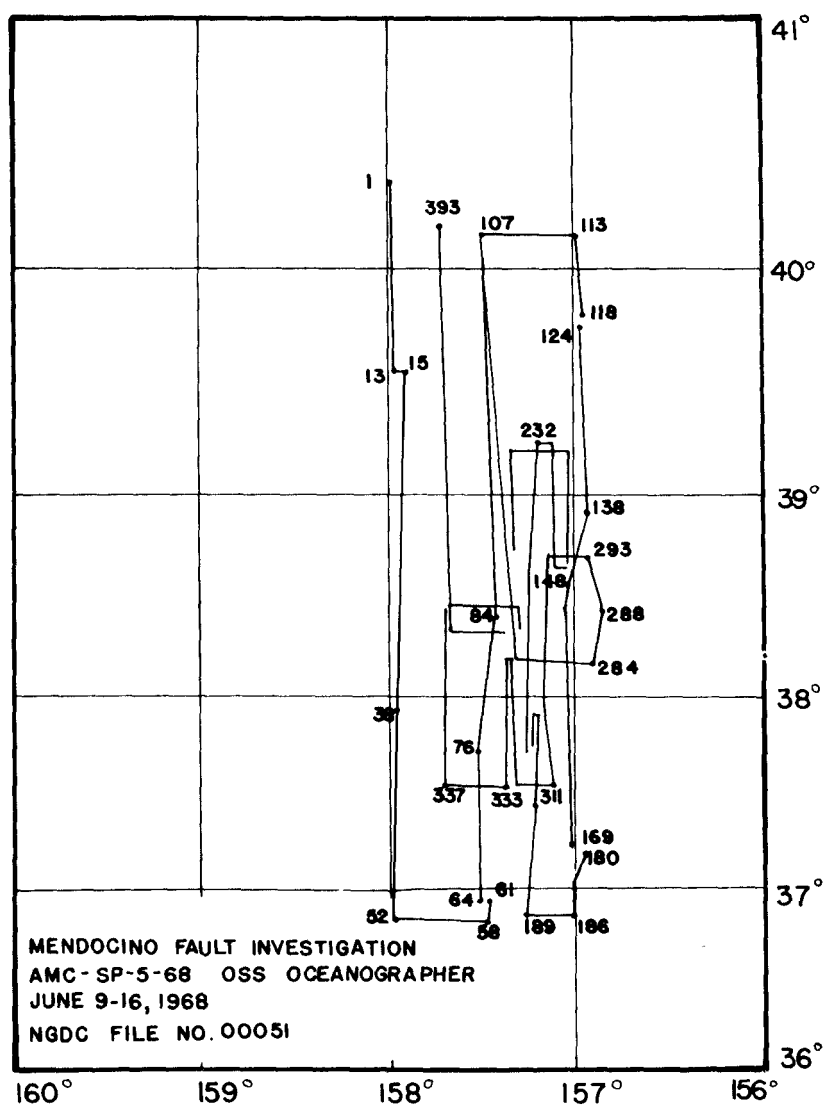
PROJECT: Hawaiian Survey
Vessel RV F. V. HUNT
Agency NAVOCEANO

Date: July-Sept., 1967
NGDC File No. 00049



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry					
Gravity					
Magnetic					
Seismic		X			
Remarks:					

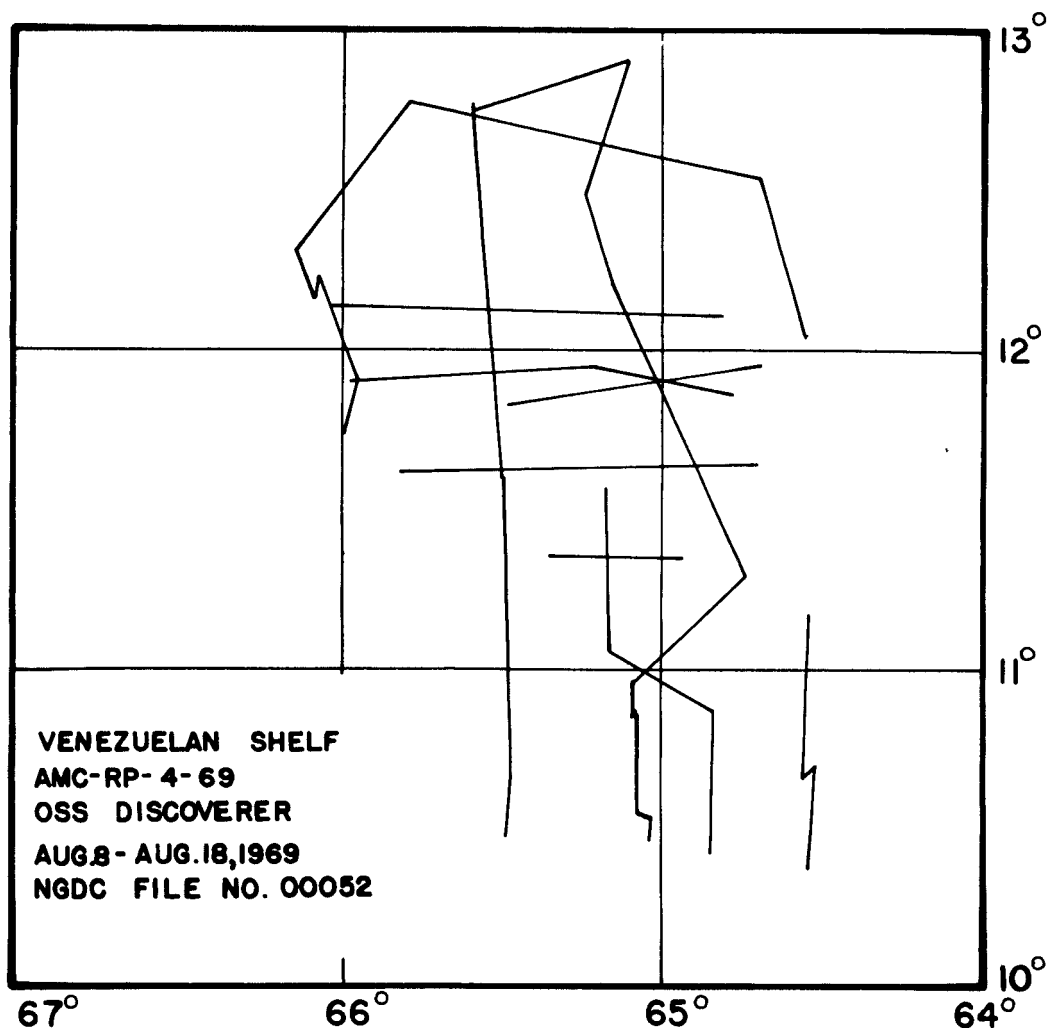
PROJECT:	Western Mediterranean	Date:	1966-1968
Vessel	RV's CALYPSO, JEAN CHARCOT, FRANCOIS BLANE		
Agency	Monaco Institute for Oceanography	NGDC File No.	00050



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X			
Gravity	X	X			
Magnetic	X	X			
Seismic					

Remarks:

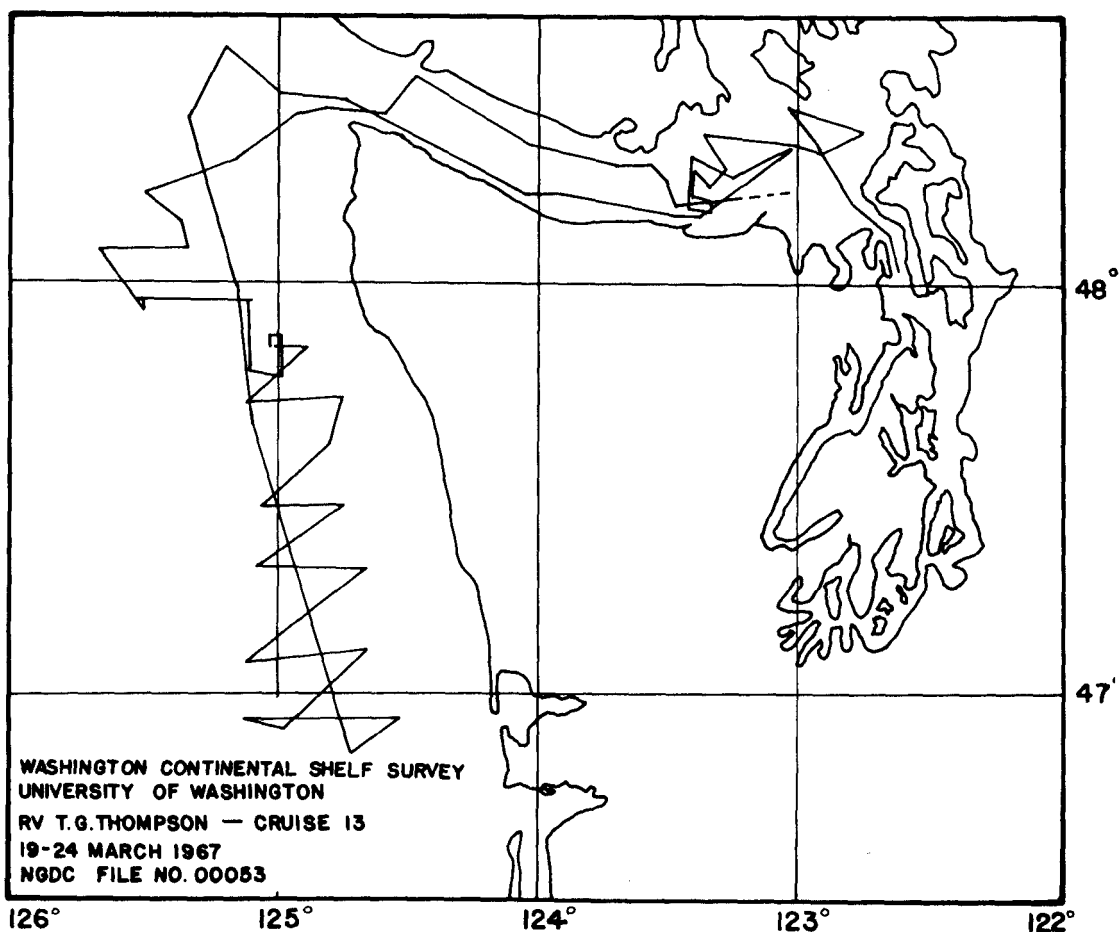
PROJECT: Mendocino Fault Investigation Date: June 5-16, 1968
 Vessel OSS OCEANOGRAPHER SP-5-68
 Agency Environmental Science Services Administration. NGDC File No. 00051



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X		X	
Gravity	X	X		X	
Magnetic	X	X		X	
Seismic		X			

Remarks:

PROJECT: Venezuelan Shelf Date: Aug. 8-18, 1969
 Vessel OSS DISCOVERER RP 4-69
 Agency Environmental Science Services NGDC File No. 00052
 Administration.

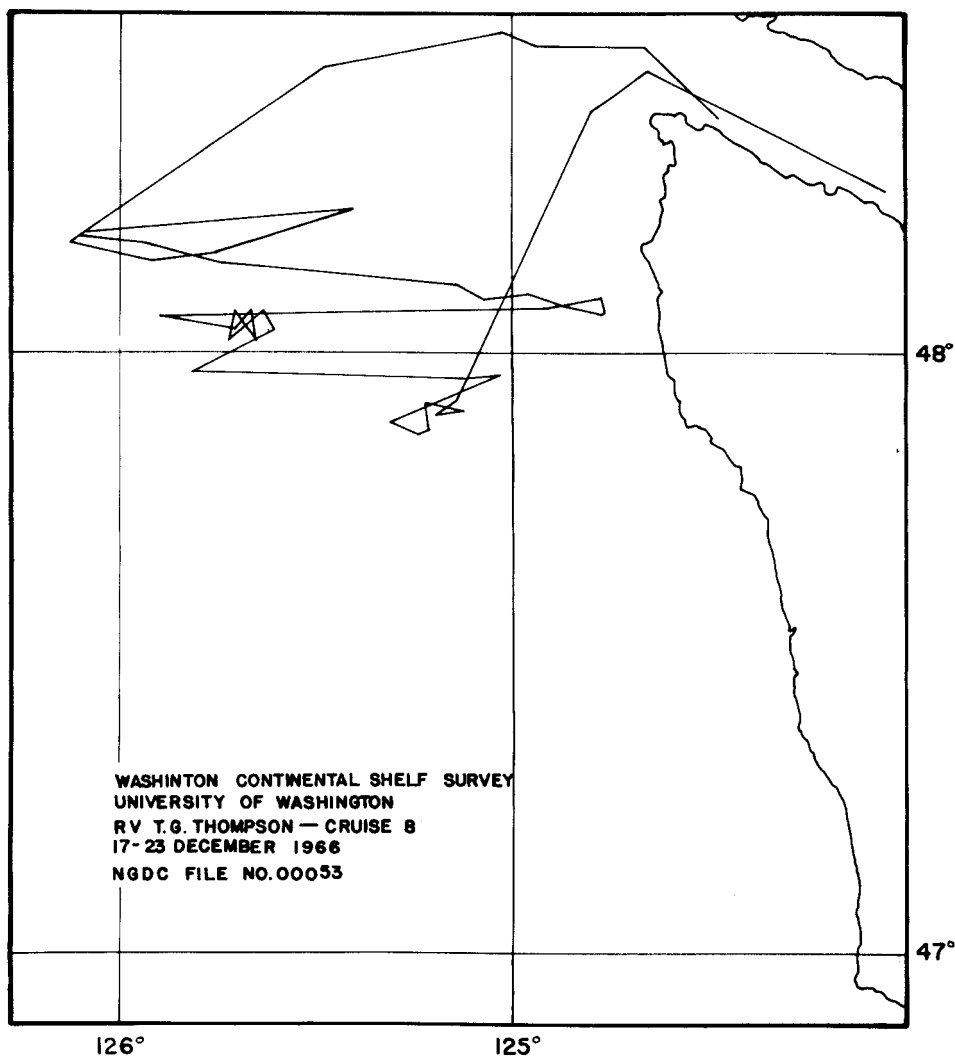


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry					
Gravity					
Magnetic					
Seismic		X			

Remarks:

PROJECT: Continental Shelf Survey
 Vessel RV T. G. THOMPSON Cruise 13
 Agency University of Washington

Date: March 19-24, 1967
 NGDC File No. 00053

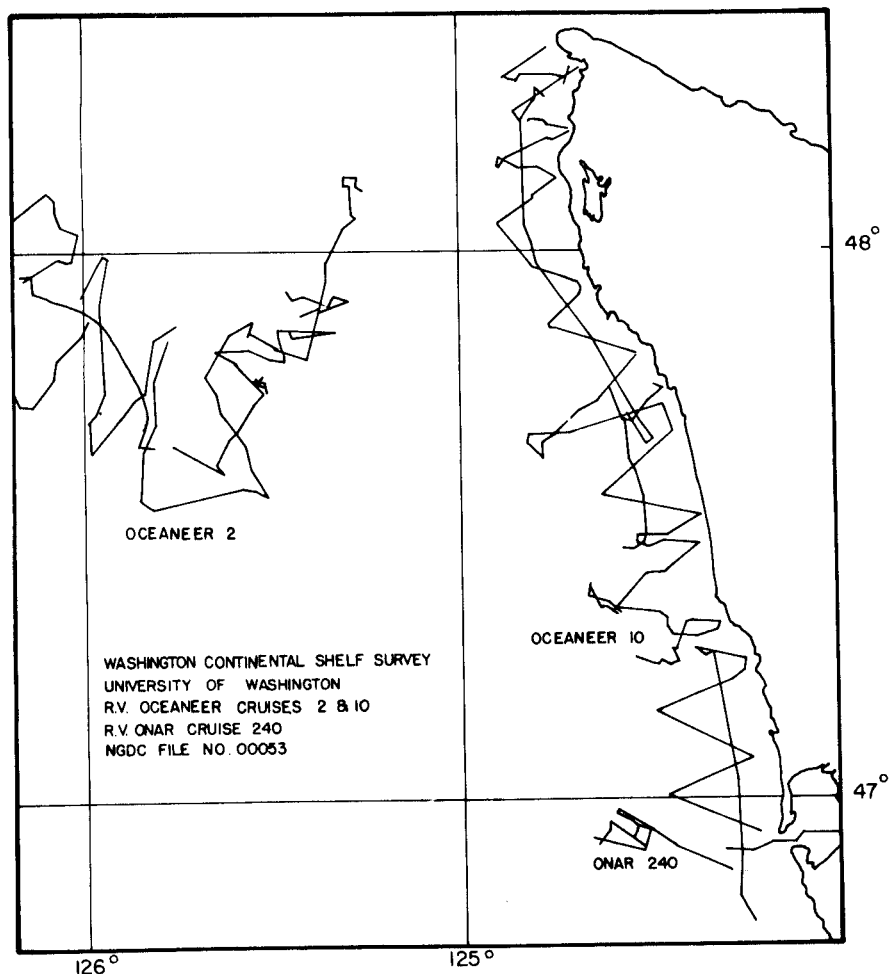


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry					
Gravity					
Magnetic					
Seismic		X			

Remarks:

PROJECT: Continental Shelf Survey
 Vessel RV T. G. THOMPSON Cruise 8
 Agency University of Washington

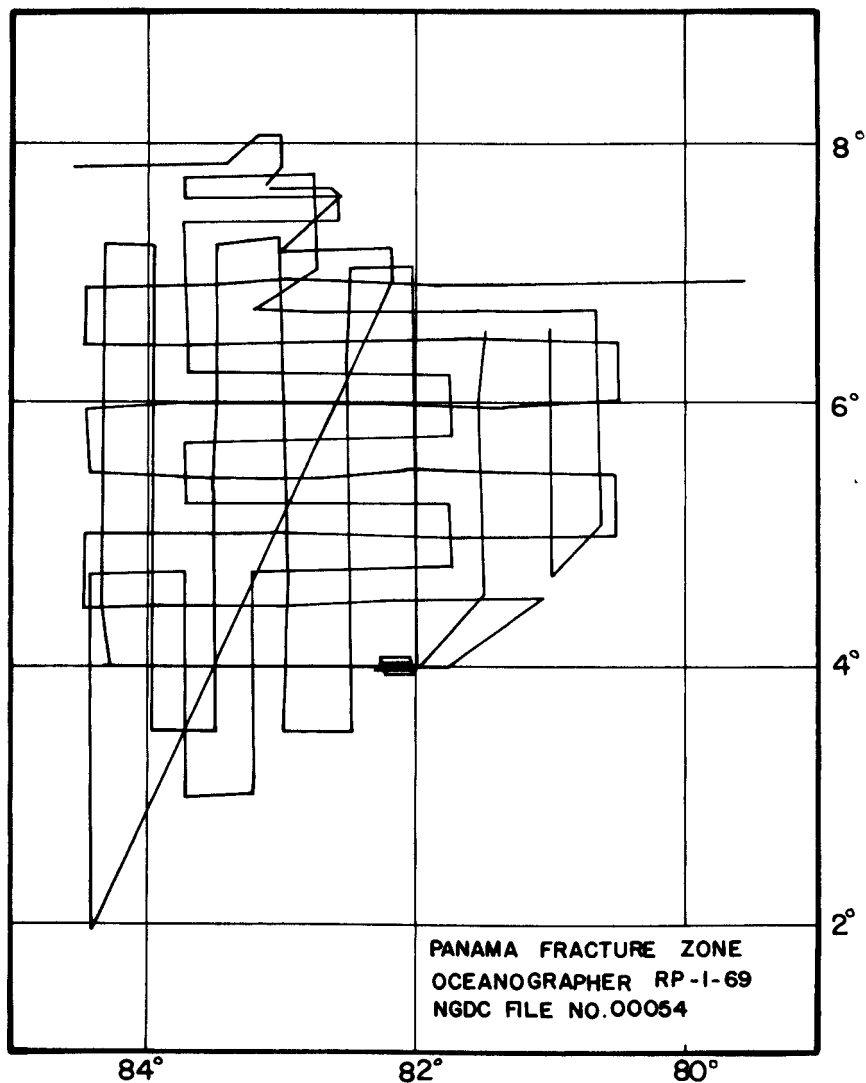
Date: Dec. 17-23, 1966
 NGDC File No. 00053



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry					
Gravity					
Magnetic					
Seismic		X			
Remarks:					

PROJECT: Continental Shelf Survey
Vessel RV OCEANEER RV ONAR
Agency University of Washington

Date: 1966, 1967, 1968
NGDC File No. 00053



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X			X	
Gravity	X			X	
Magnetic	X			X	
Seismic					

Remarks:

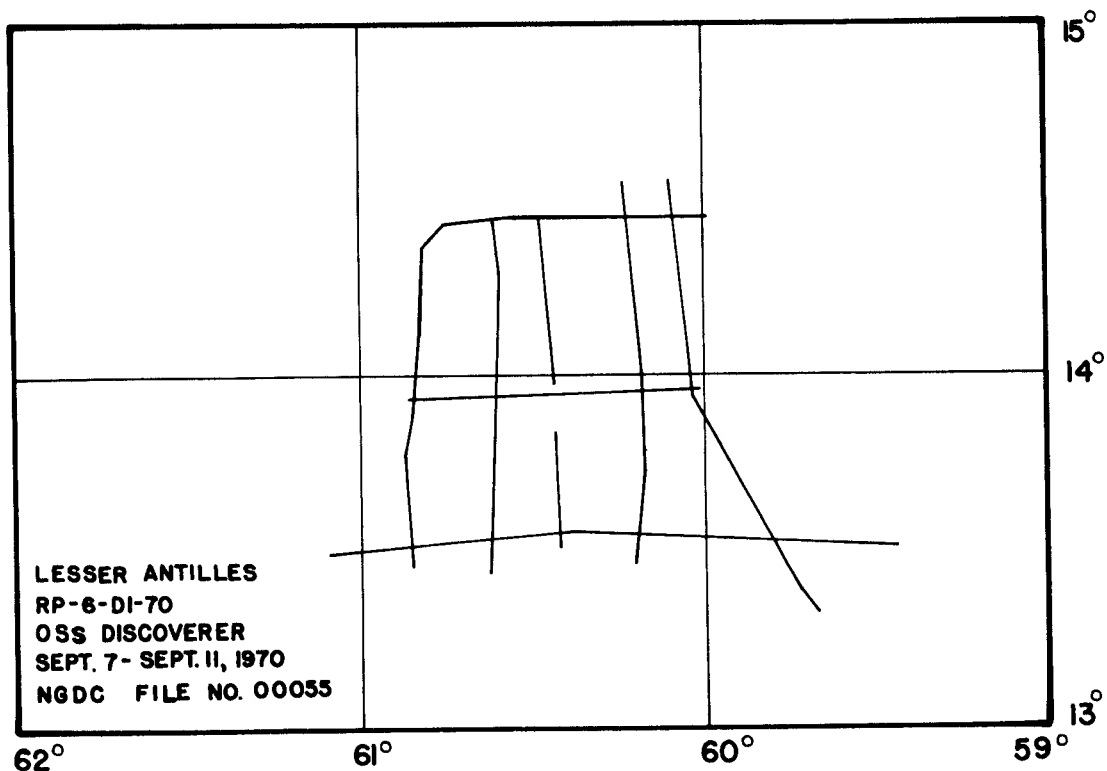
PROJECT: Panama Fracture Zone

Date: Aug. 12-28, 1969

Vessel OSS OCEANOGRAPHER RP-1-69

Agency Environmental Science Services Administration

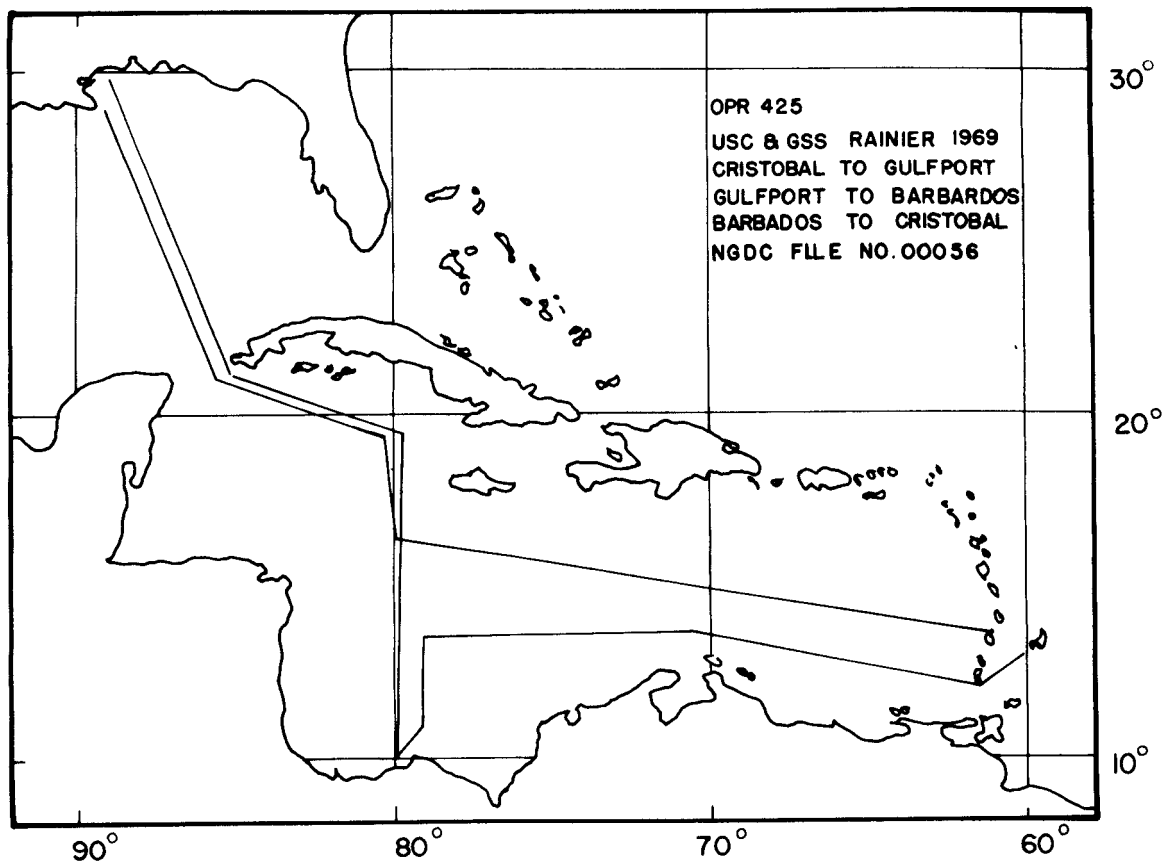
NGDC File No. 00054



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X			X	
Gravity	X			X	
Magnetic	X			X	
Seismic					

Remarks:

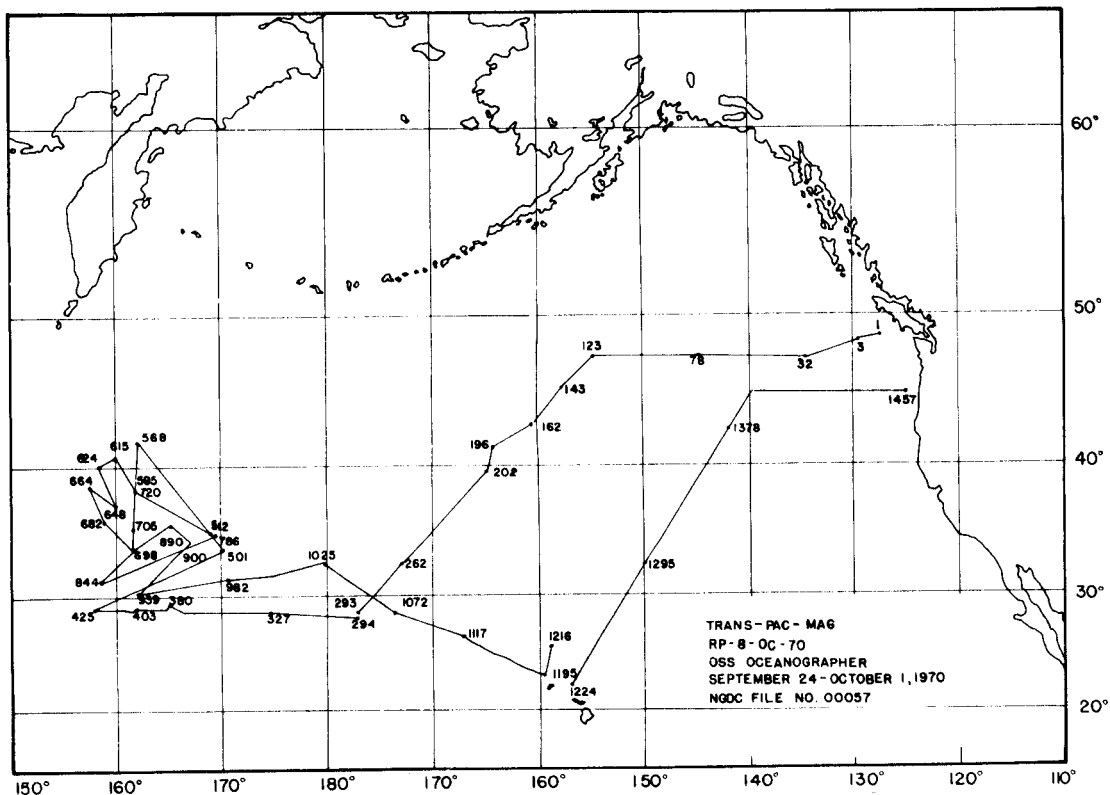
PROJECT: Lesser Antilles Date: Sept. 7-11, 1970
 Vessel OSS DISCOVERER RP-6-70
 Agency Environmental Science Services Administration. NGDC File No. 00055



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X			
Gravity					
Magnetic	X	X			
Seismic					

Remarks:

PROJECT: Panama-Gulfport-Barbados-Panama Date: 1969
 Vessel USC&GSS RAINIER OPR 425
 Agency Environmental Science Services Administration. NGDC File No. 00056

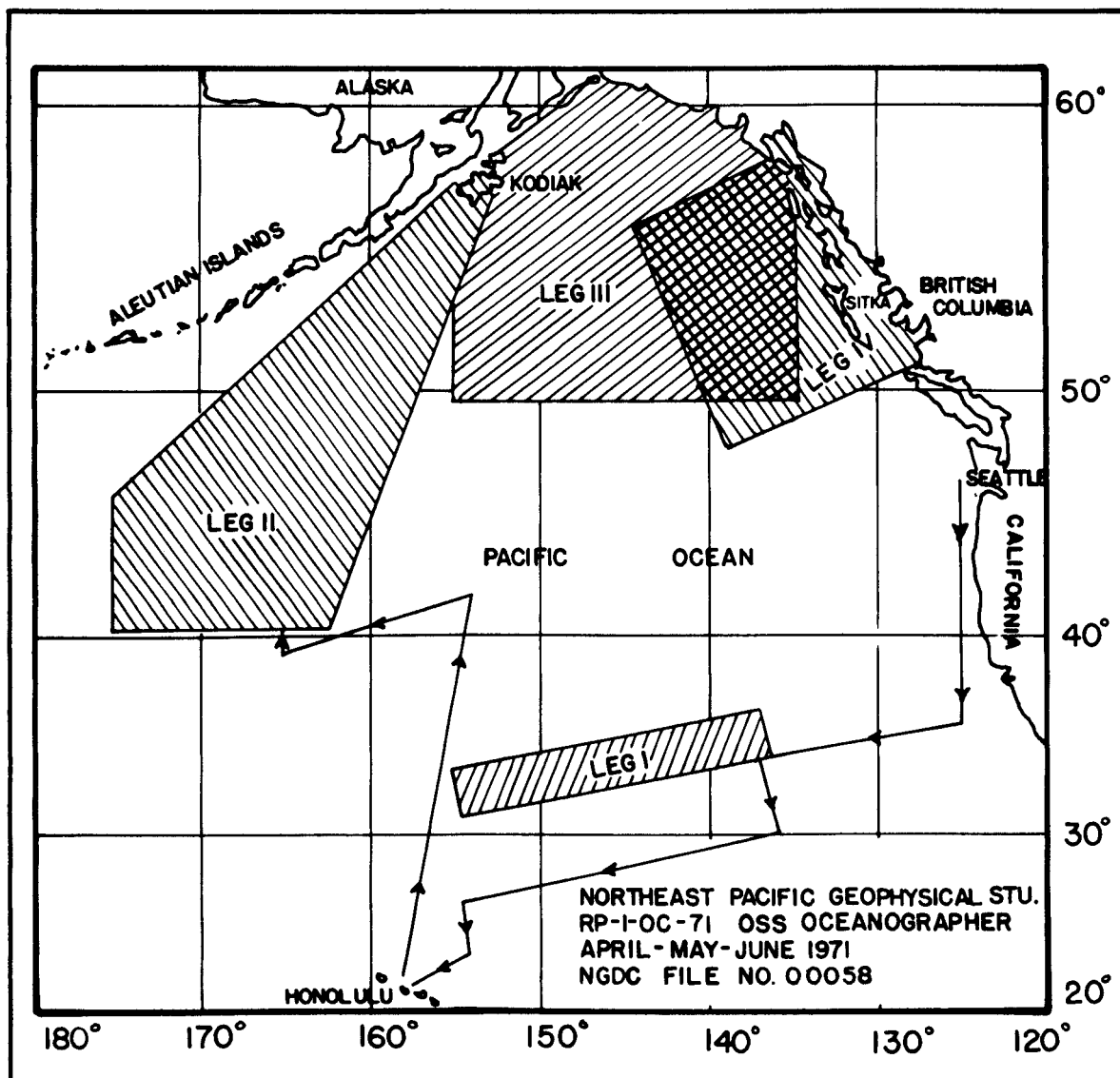


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X			
Gravity	X	X			
Magnetic	X				
Seismic					

Remarks:

Trans-Pac-Mag.

PROJECT: Seattle-Midway-Honolulu-Seattle **Date:** Sept.-Oct., 1970
Vessel OSS OCEANOGRAPHER RP-8-70
Agency Environmental Science Services Administration. **NGDC File No.** 00057

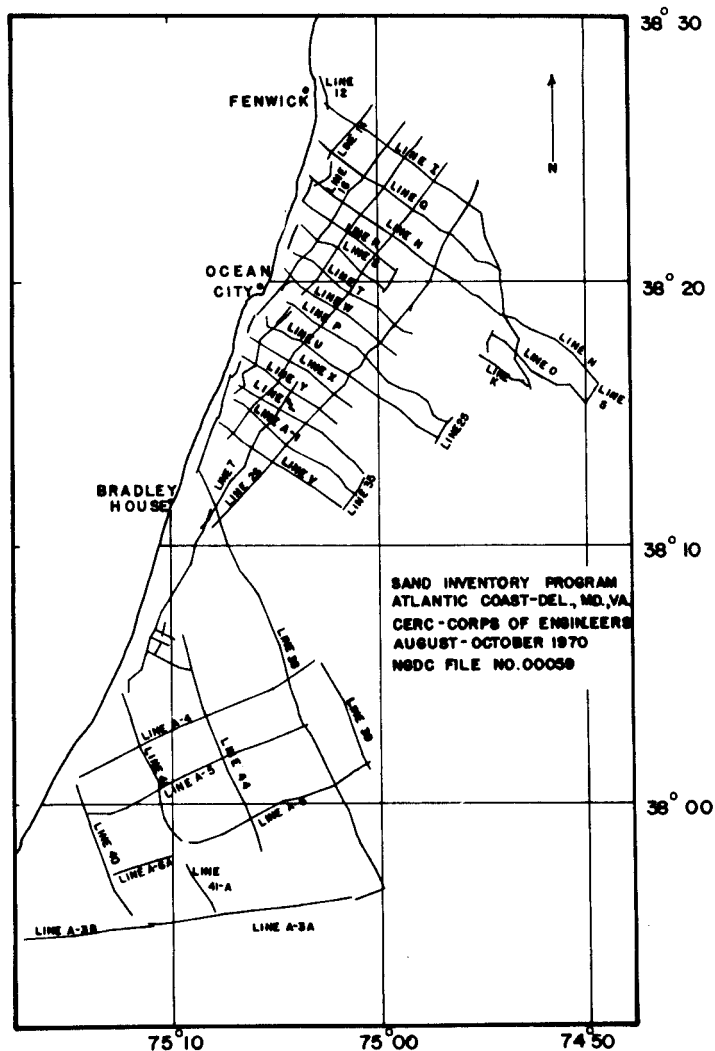


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry	X	X			
Gravity		X			
Magnetic		X			
Seismic		X			

Remarks:

PROJECT: NE Pacific Geophysical Study
 Seattle-Honolulu-Kodiak-Seattle Date: Apr.-June, 1971
Vessel OSS OCEANOGRAPHER RP-1-71
Agency NOAA

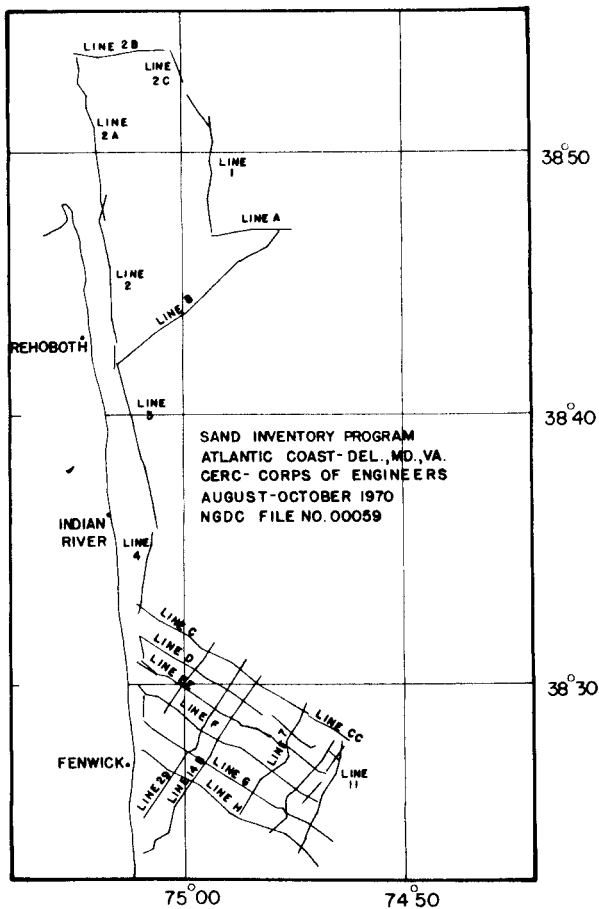
NGDC File No. 00058



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry					
Gravity					
Magnetic					
Seismic		X			
Remarks:					

PROJECT: Sand Inventory Program
Vessel: Atlantic Coast DelMarVa.
Agency: CERC Corps of Engineers

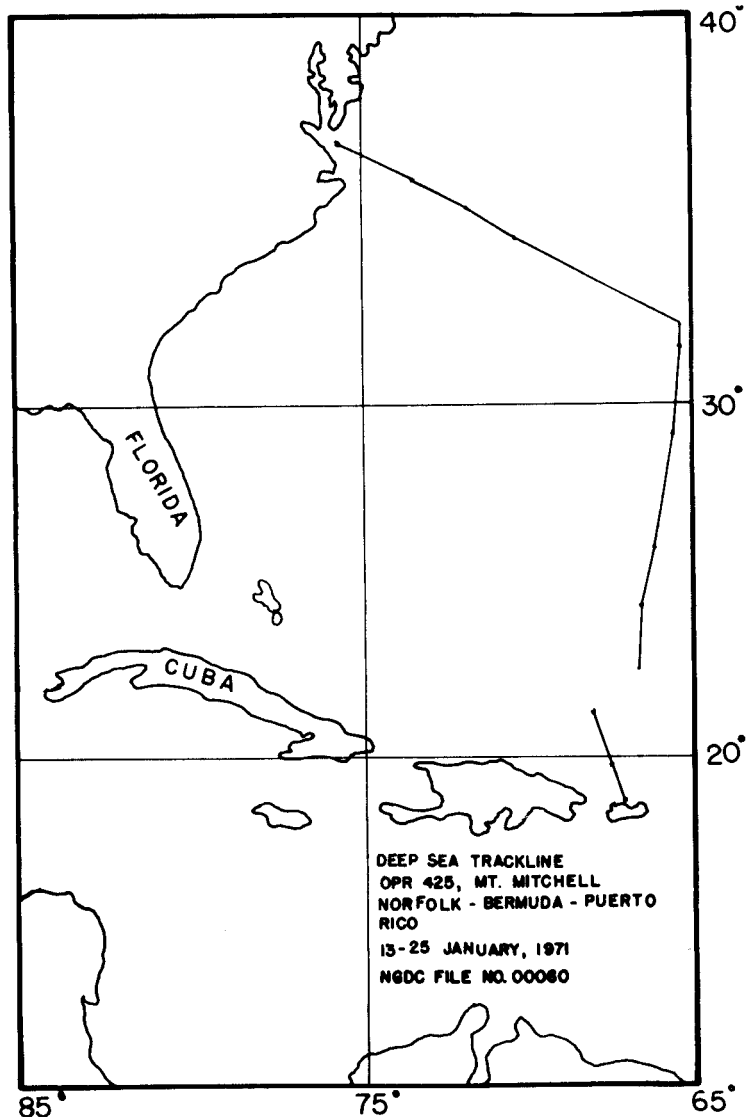
Date: Aug.-Oct., 1970
NGDC File No. 00059



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry					
Gravity					
Magnetic					
Seismic		X			
Remarks:					

PROJECT: Sand Inventory Program
Vessel: Atlantic Coast DelMarVa.
Agency: CERC Corps of Engineers

Date: Aug.-Oct., 1970
NGDC File No. 00059



AVAILABLE DATA: Data listing Original records Data plot Magnetic tape Other

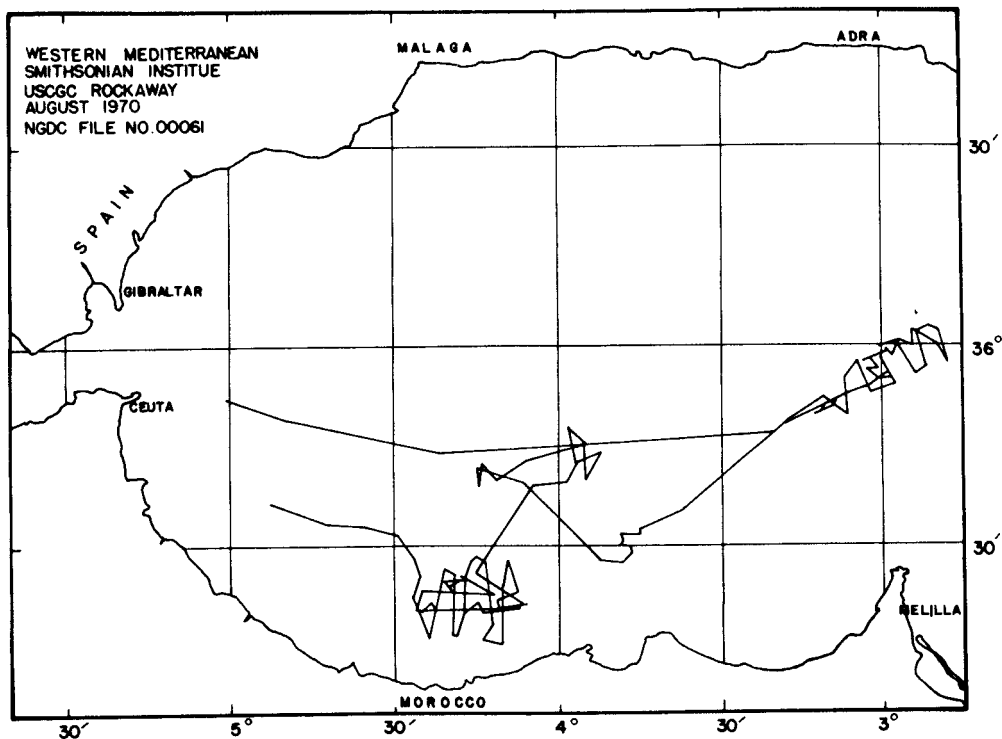
Bathymetry
Gravity
Magnetic
Seismic

X

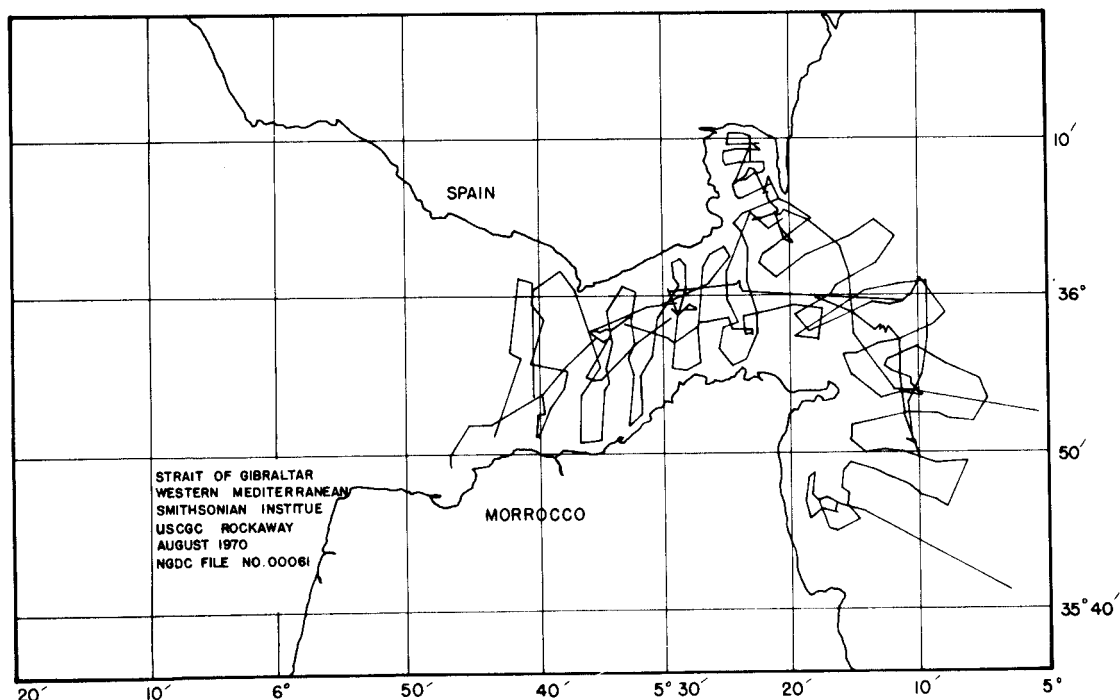
Remarks:

PROJECT: Norfolk-Bermuda-Puerto Rico
Vessel MT. MITCHELL OPR 425
Agency NOAA

Date: Jan. 13-25, 1971
NGDC File No. 00060



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			
Gravity					
Magnetic					
Seismic					
Remarks:					
PROJECT: Western Mediterranean			Date: August, 1970		
Vessel USCGC ROCKAWAY					
Agency Smithsonian Institution			NGDC File No. 00061		



AVAILABLE DATA:	<u>Data</u> <u>listing</u>	<u>Original</u> <u>records</u>	<u>Data</u> <u>plot</u>	<u>Magnetic</u> <u>tape</u>	<u>Other</u>
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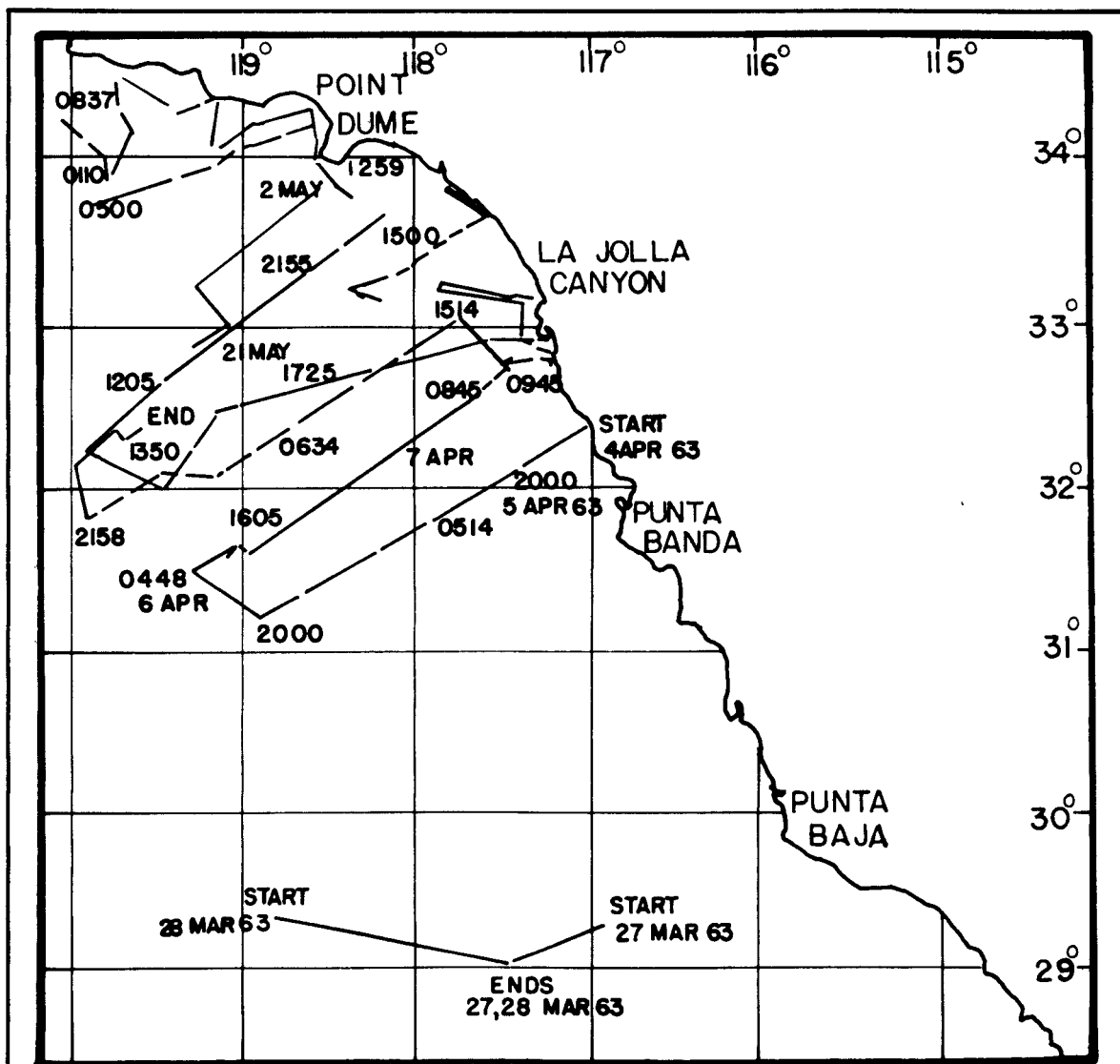
Bathymetry
Gravity
Magnetic
Seismic

X

Remarks:

PROJECT: Western Mediterranean
Vessel: USCGC ROCKAWAY
Agency: Smithsonian Institution

Date: August, 1970
NGDC File No. 00061



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
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Bathymetry
Gravity
Magnetic
Seismic

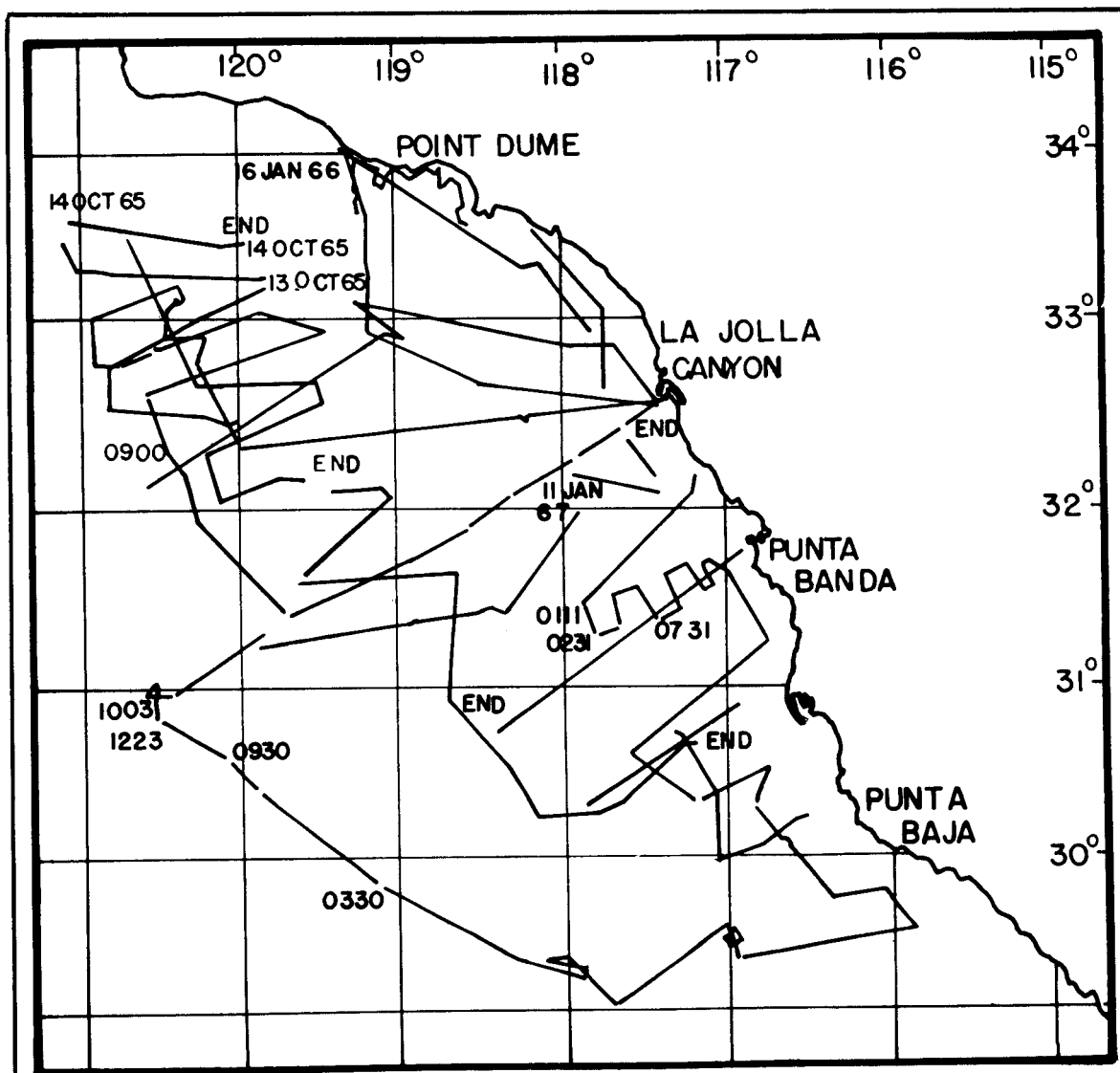
X

Remarks:

PROJECT: Calif. Continental Borderland
Vessel RV SMITH RV DAVIS
Agency Scripps Institution of Oceanography

Date: 1963, 1965

NGDC File No. 00062



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
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Bathymetry
Gravity
Magnetic
Seismic

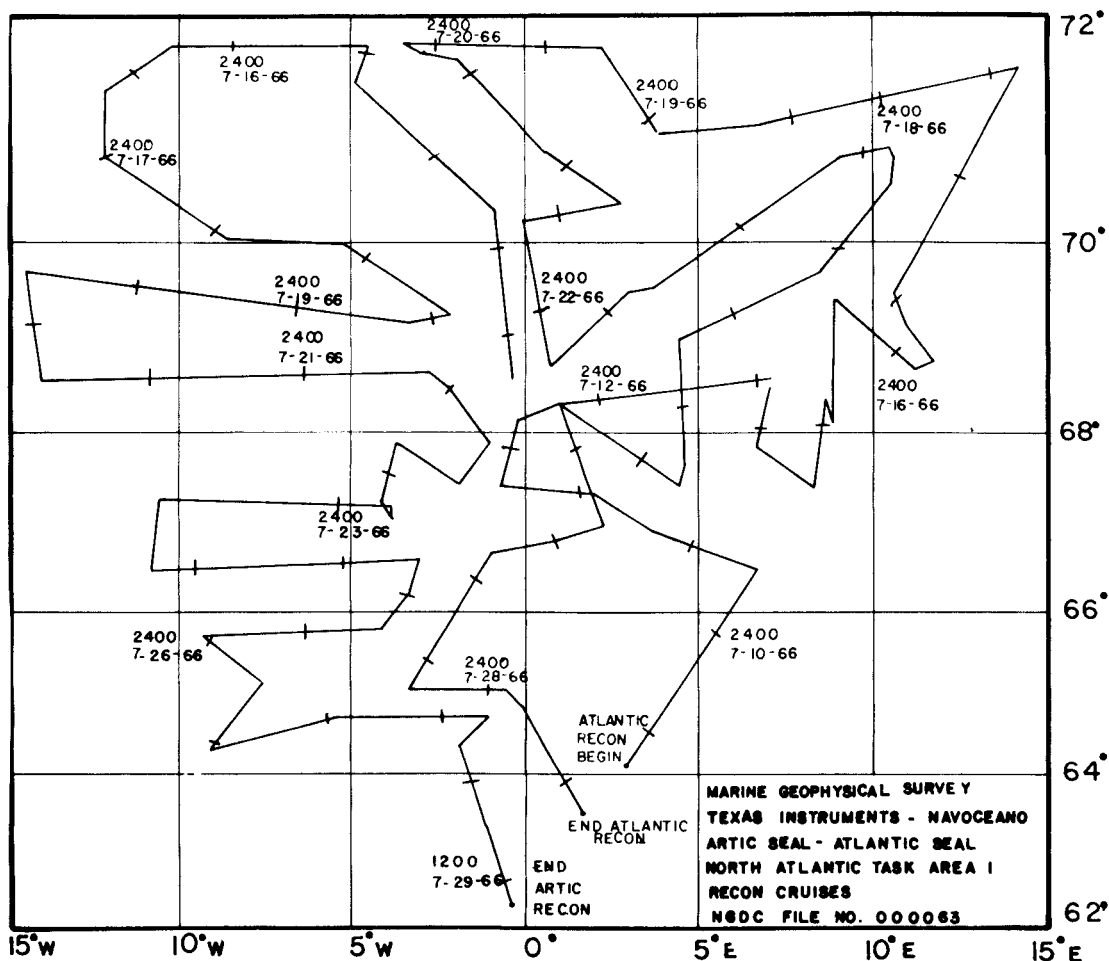
X

Remarks:

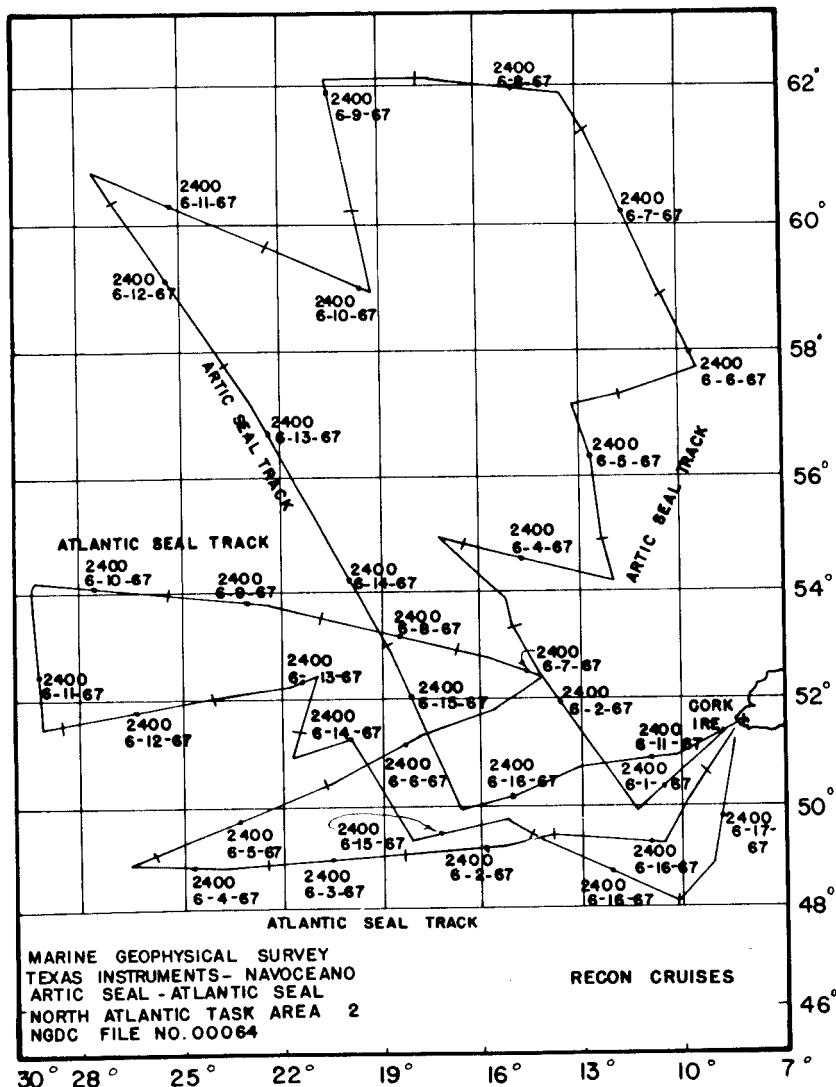
PROJECT: Calif. Continental Borderland
Vessel RV BAIRD
Agency Scripps Institution of Oceanography.

Date: 1967

NGDC File No. 00062



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			
Gravity					
Magnetic		X			
Seismic		X			
Remarks:	Tracklines shown are for reconnaissance cruises only. ARTIC SEAL and ATLANTIC SEAL ran 5 detail cruises in this same area.				
PROJECT:	North Atlantic Task Area 1		Date: July-Nov., 1966		
Vessel	ARTIC SEAL ATLANTIC SEAL				
Agency	Texas Instruments-NAVOCEANO		NGDC File No. 00063		



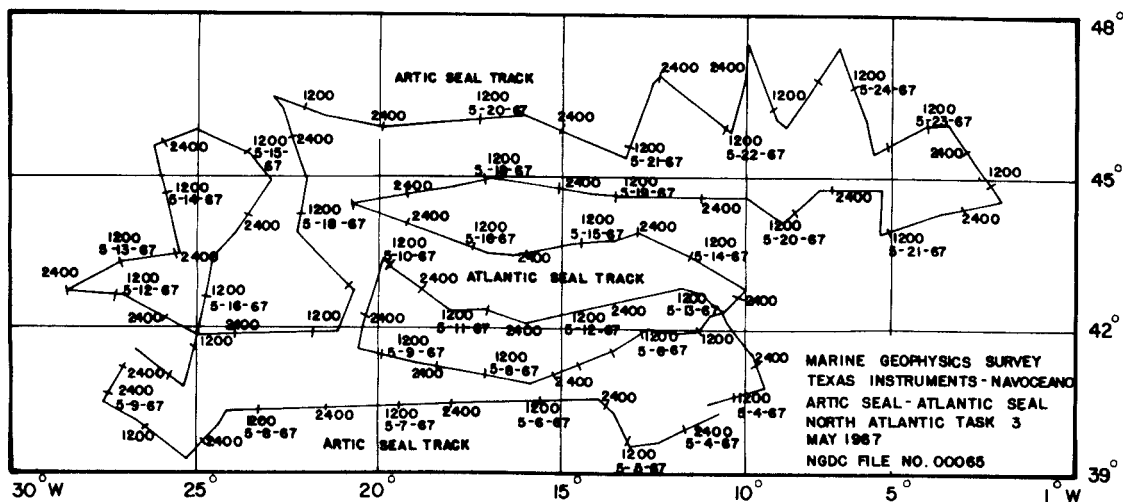
AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			
Gravity					
Magnetic		X			
Seismic		X			

Remarks: Tracklines shown are reconnaissance cruises only. ARTIC SEAL and ATLANTIC SEAL ran 5 detail cruises in this same area.

PROJECT: North Atlantic Task Area 2 Date: May-Oct., 1967

Vessel: ARTIC SEAL ATLANTIC SEAL

Agency: Texas Instruments-NAVOCEANO NGDC File No. 00064



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			
Gravity					
Magnetic		X			
Seismic		X			

Remarks: Tracklines shown are reconnaissance cruises only. ARTIC SEAL and ATLANTIC SEAL ran 5 detail cruises in this same area.

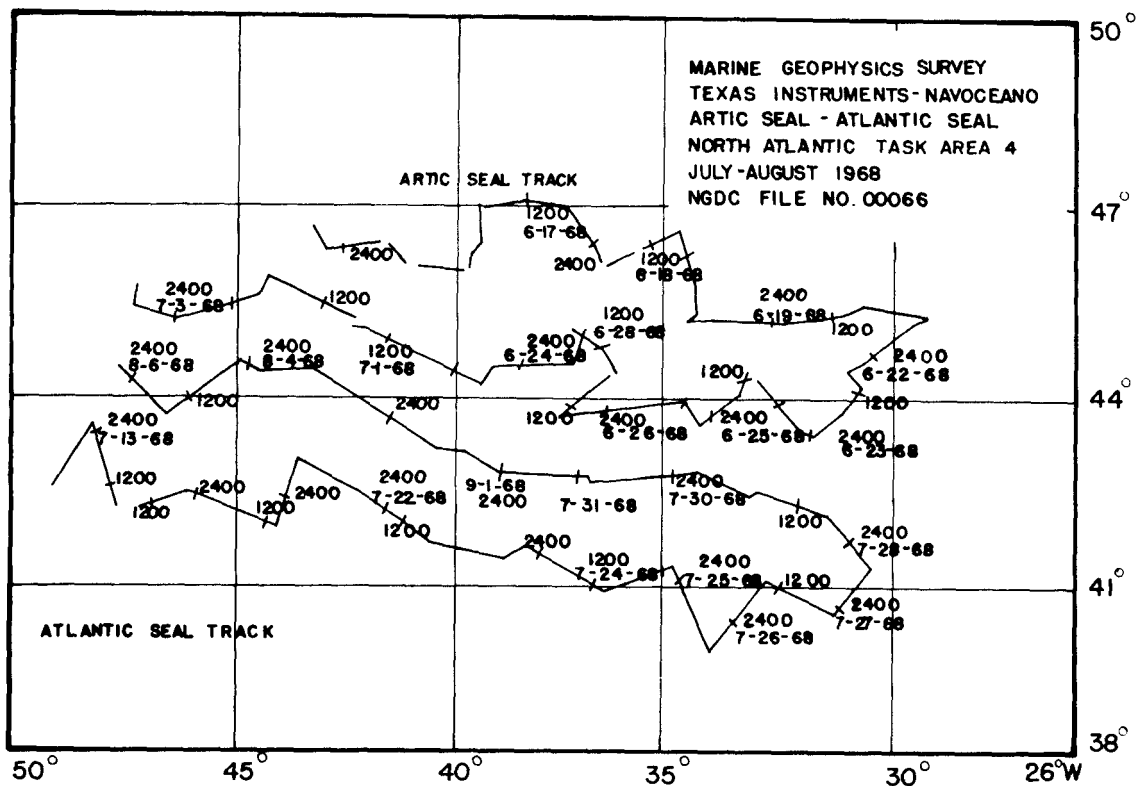
PROJECT: North Atlantic Task Area 3

Date: May-Dec., 1967

Vessel ARTIC SEAL ATLANTIC SEAL

Agency Texas Instruments-NAVOCEANO

NGDC File No. 00065

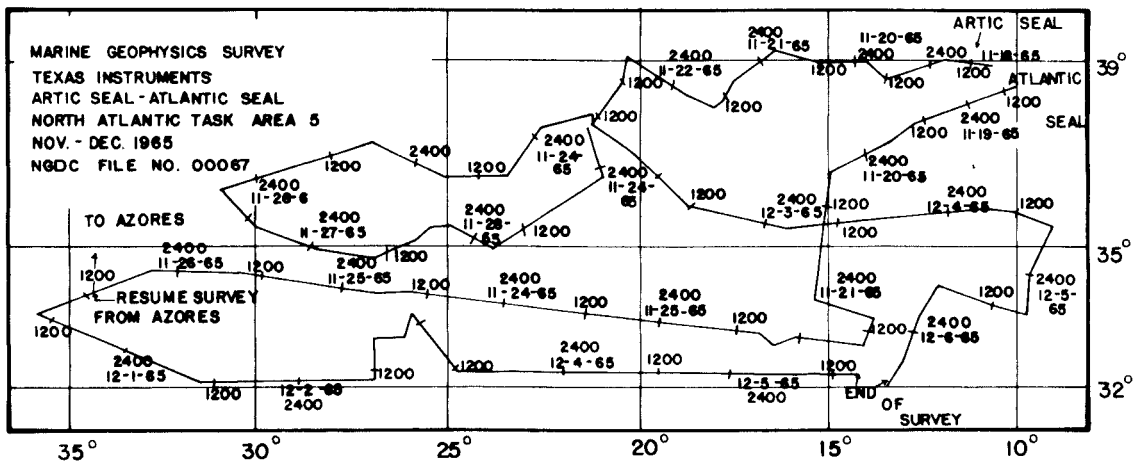


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			
Gravity					
Magnetic		X			
Seismic		X			

Remarks: Tracklines shown are reconnaissance cruises only. ARTIC SEAL and ATLANTIC SEAL ran 2 detail cruises in this same area.

PROJECT: North Atlantic Task Area 4
Vessel: ARTIC SEAL ATLANTIC SEAL
Agency: Texas Instruments-NAVOCEANO

Date: June-Aug., 1968
NGDC File No. 00066

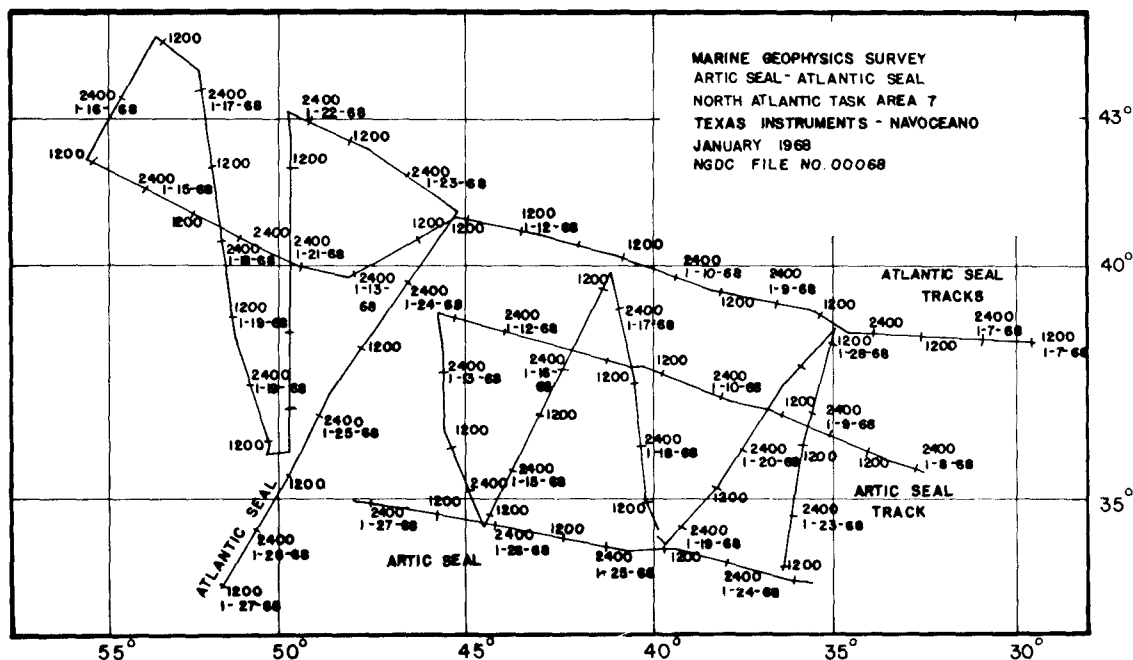


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			P
Gravity					
Magnetic		X			P
Seismic		X			P

Remarks: Tracklines shown are reconnaissance cruises only.
ARTIC SEAL and ATLANTIC SEAL ran 8 detail cruises in this same area.

PROJECT: North Atlantic Task Area 5
Vessel: ARTIC SEAL ATLANTIC SEAL
Agency: Texas Instruments-NAVOCEANO

Date: Nov.-Jan., 1965-1966
NGDC File No. 00067

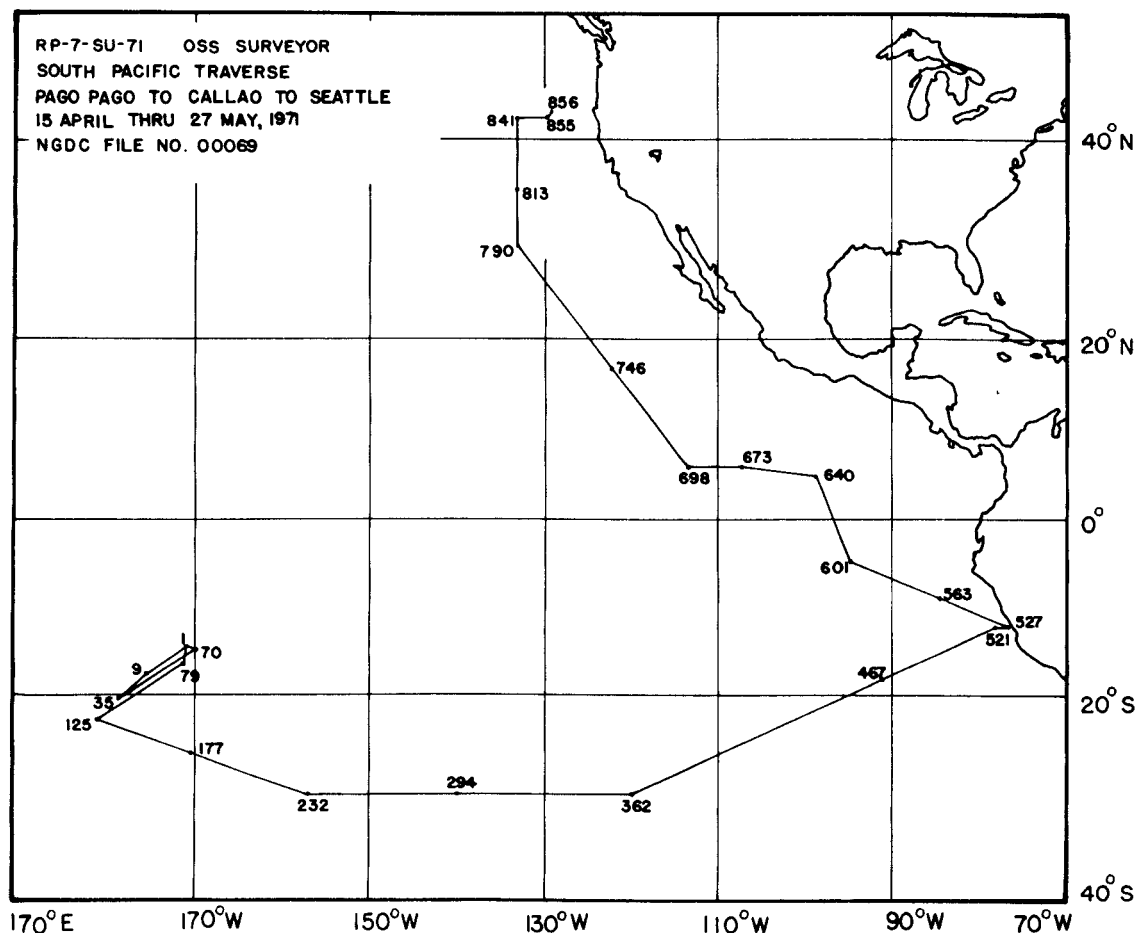


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			
Gravity					
Magnetic		X			
Seismic		X			

Remarks: Tracklines shown are reconnaissance cruises only. ARTIC SEAL and ATLANTIC SEAL ran 5 detail cruises in this same area.

PROJECT: North Atlantic Task Area 7 Date: Jan.-June, 1968
 Vessel ARTIC SEAL ATLANTIC SEAL
 Agency Texas Instruments-NAVOCEANO NGDC File No. 00068

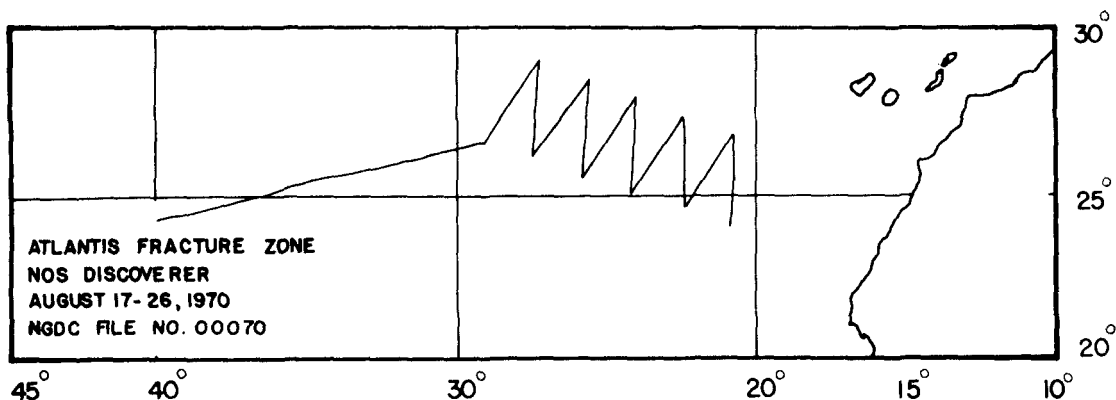
RP-7-SU-71 OSS SURVEYOR
SOUTH PACIFIC TRAVERSE
PAGO PAGO TO CALLAO TO SEATTLE
15 APRIL THRU 27 MAY, 1971
NGDC FILE NO. 00069



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			
Gravity		X			
Magnetic	X				
Seismic					
Remarks:					

PROJECT: South Pacific Traverse
Pago Pago-Callao-Seattle
Vessel: OSS SURVEYOR RP-7-71
Agency: NOAA

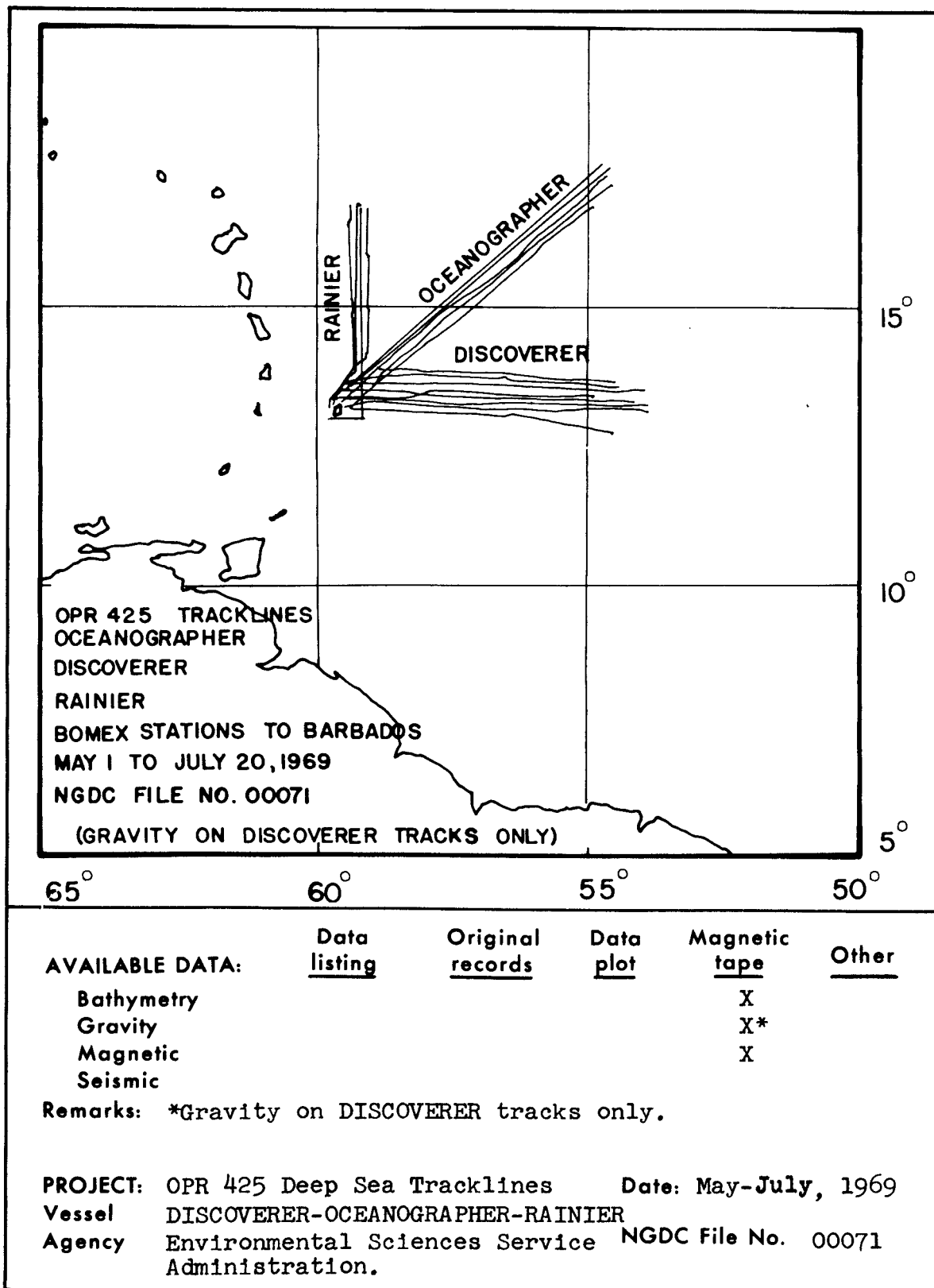
Date: Apr.-May, 1971
NGDC File No. 00069

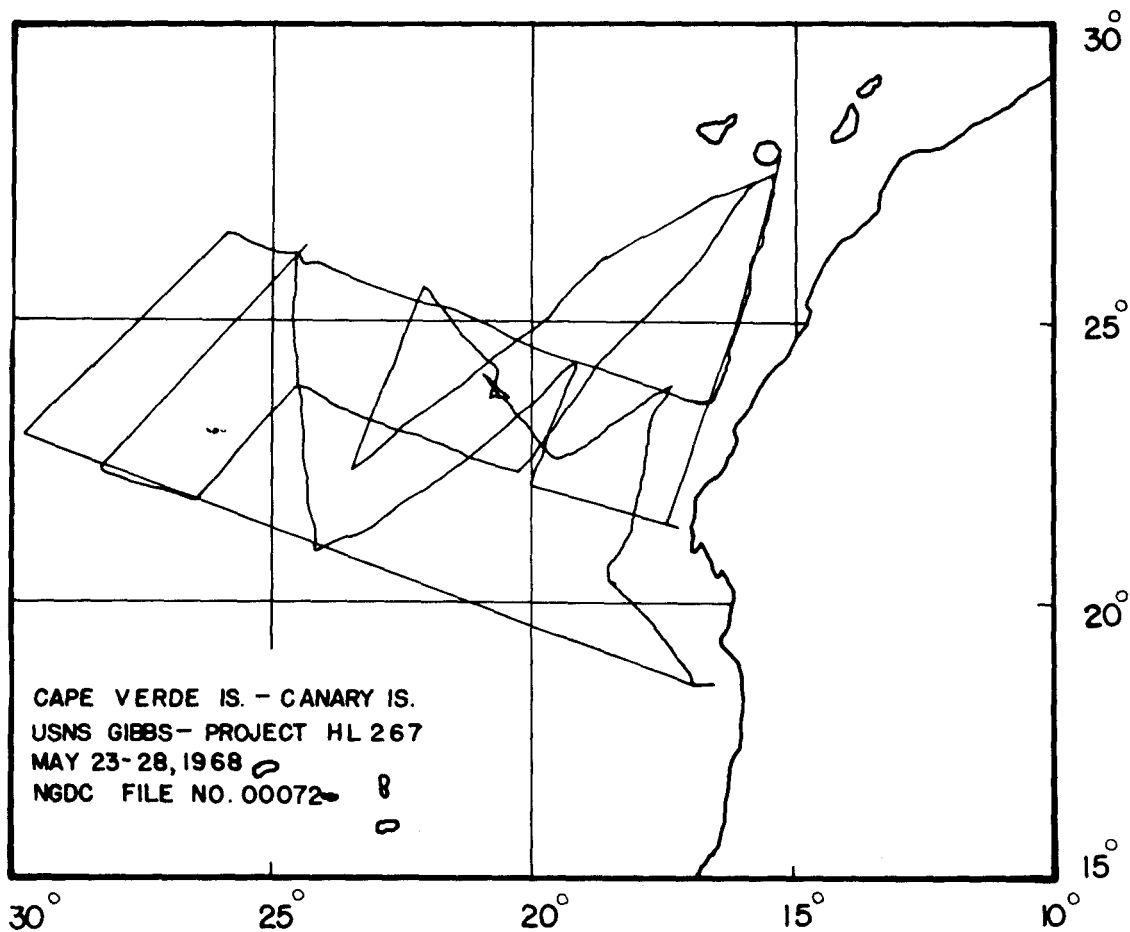


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry				X	
Gravity				X	
Magnetic				X	
Seismic					
Remarks:					

PROJECT: Atlantis Fracture Zone
Vessel OSS DISCOVERER
Agency NOAA-AOML

Date: Aug. 17-26, 1970
NGDC File No. 00070





AVAILABLE DATA:

Bathymetry
 Gravity
 Magnetic
 Seismic

Remarks:

Data
listing

Original
records

Data
plot

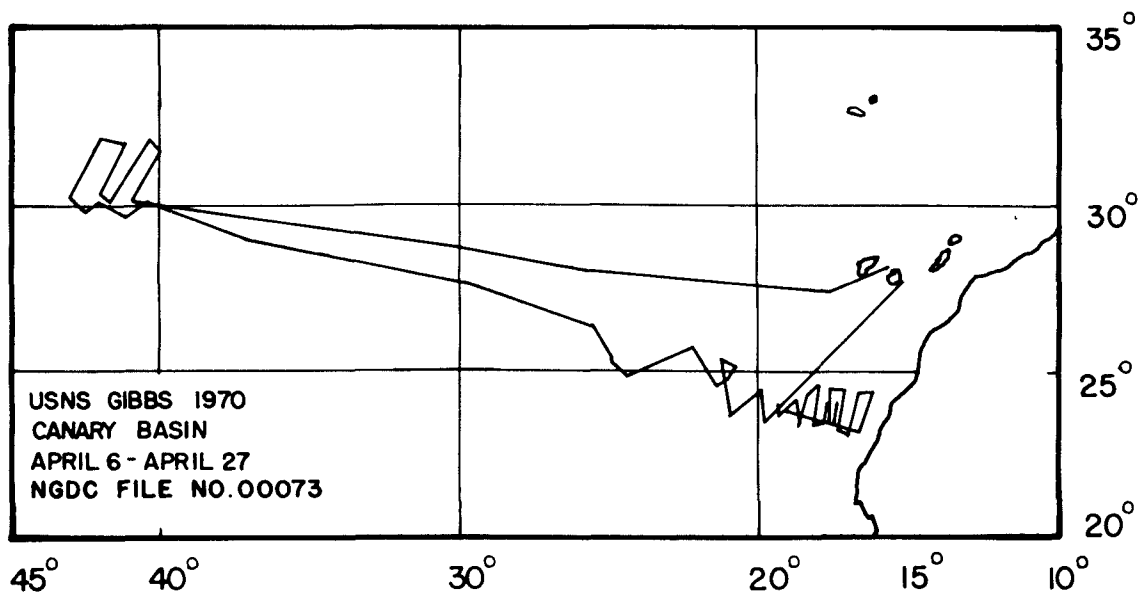
Magnetic
tape

Other

X

PROJECT: Cape Verde Is.-Canary Is.
Vessel USNS GIBBS Project HL 267
Agency NAVOCEANO-Hudson Laboratories

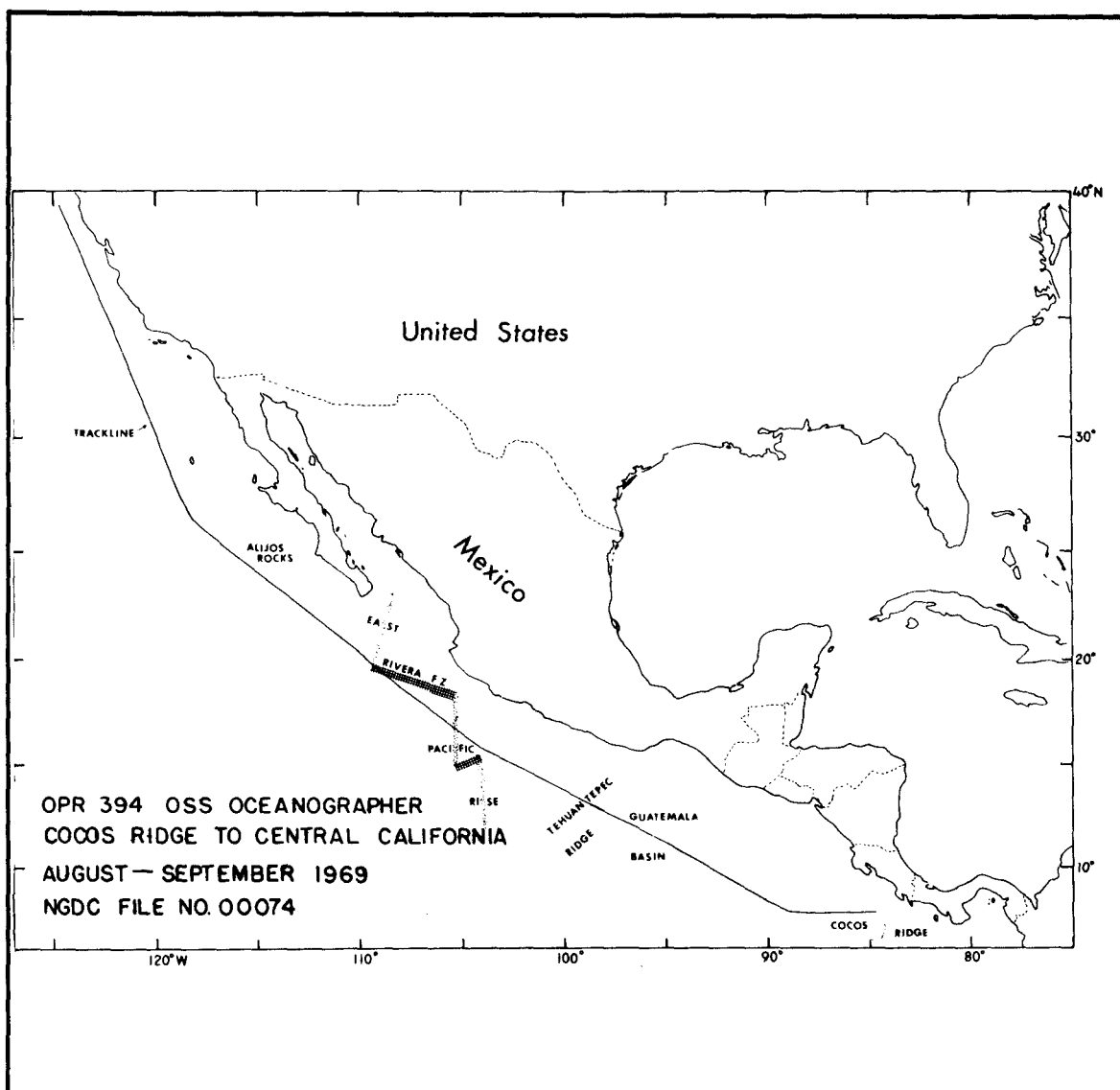
Date: May 23-28, 1968
NGDC File No. 00072



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry				X	
Gravity					
Magnetic				X	
Seismic					
Remarks:					

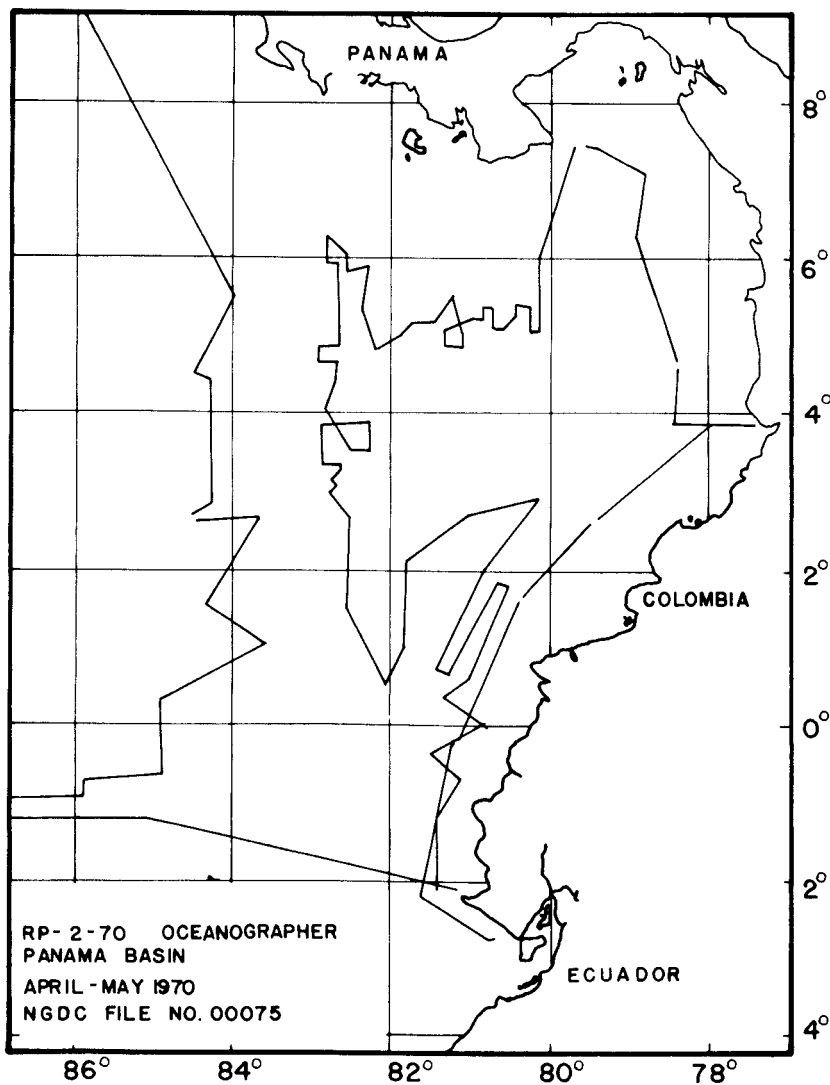
PROJECT: Canary Basin
Vessel USNS GIBBS
Agency US Nav. Res. Lab.-AOML

Date: April 6-27, 1970
NGDC File No. 00073



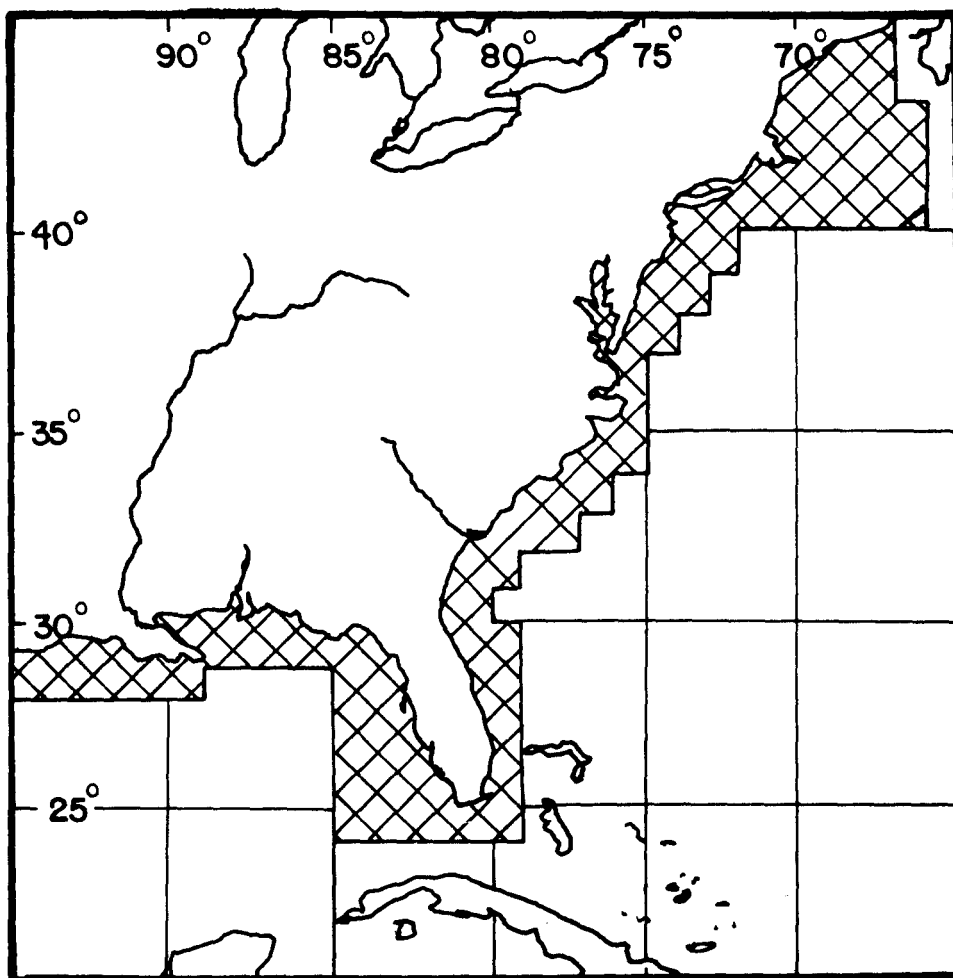
AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry				X	
Gravity					
Magnetic				X	
Seismic					
Remarks:					

PROJECT: Cocos Ridge-Central California **Date:** Aug.-Sept., 1969
Vessel OSS OCEANOGRAPHER OPR 394
Agency Environmental Science Services **NGDC File No.** 00074
 Administration-AOML



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry				X	
Gravity				X	
Magnetic				X	
Seismic					
Remarks:					

PROJECT:	Panama Basin	Date:	April-May, 1970
Vessel	OSS OCEANOGRAPHER RP-2-70		
Agency	Environmental Science Services Administration	NGDC File No.	00075



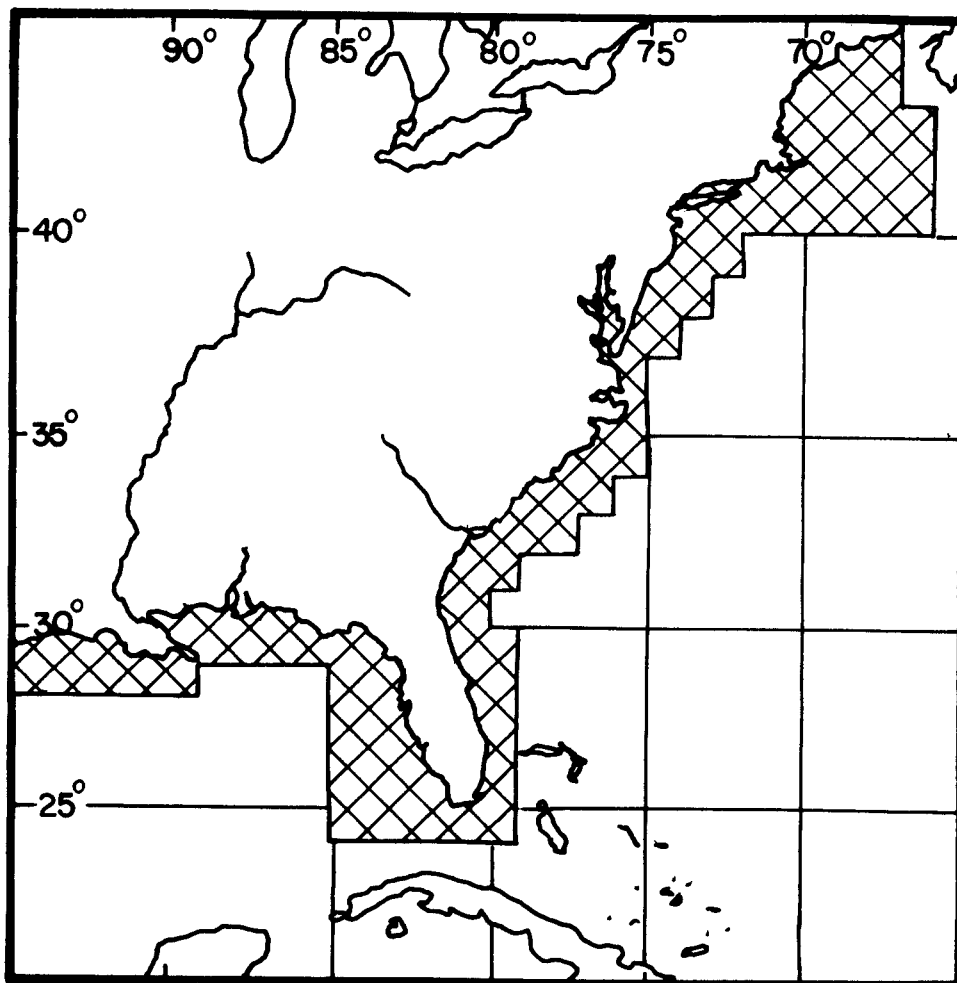
AVAILABLE DATA:	<u>Data</u> <u>listing</u>	<u>Original</u> <u>records</u>	<u>Data</u> <u>plot</u>	<u>Magnetic</u> <u>tape</u>	<u>Other</u>
Bathymetry					
Gravity				X	
Magnetic					
Seismic					

Remarks: East Coast Area includes 89,380 data points.

PROJECT: East Coast Gravity
 Vessel USNS KEATHLEY and Others
 Agency NAVOCEANO and ACIC

Date: 1967-1969

NGDC File No. 00076

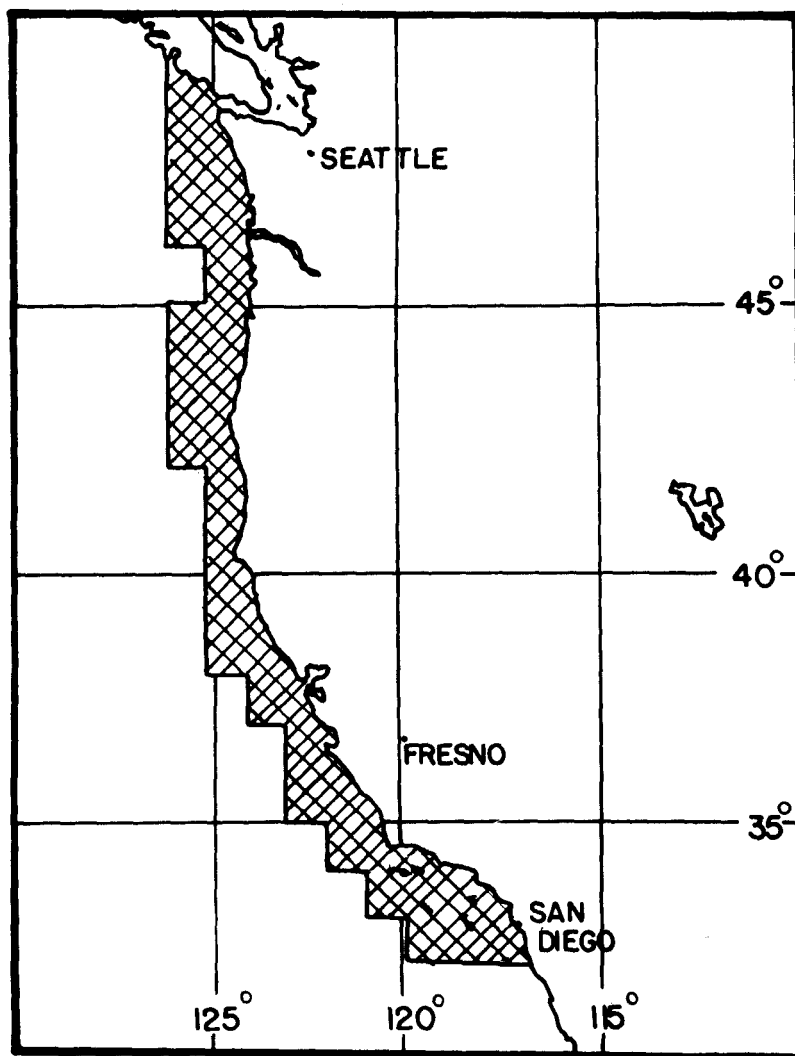


AVAILABLE DATA:	<u>Data</u> <u>listing</u>	<u>Original</u> <u>records</u>	<u>Data</u> <u>plot</u>	<u>Magnetic</u> <u>tape</u>	<u>Other</u>
Bathymetry					
Gravity				X	
Magnetic					
Seismic					

Remarks: Gulf Coast Area includes 58,179 data points.

PROJECT: Gulf Coast Gravity
 Vessel USNS KEATHLEY and Others
 Agency NAVOCEANO and ACIC

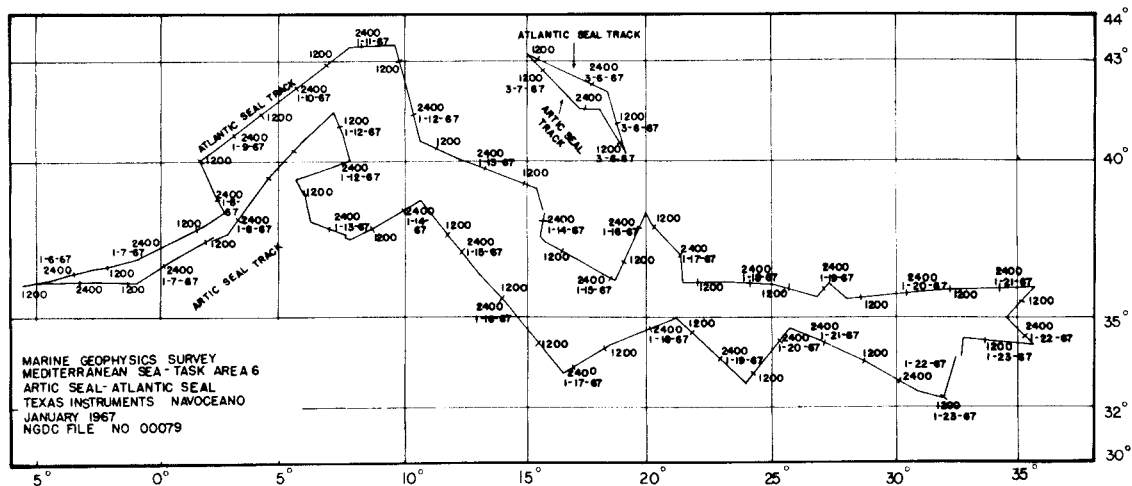
Date: 1967-1969
 NGDC File No. 00077



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry					
Gravity				X	
Magnetic					
Seismic					

Remarks: West Coast Area includes 72,009 data points.

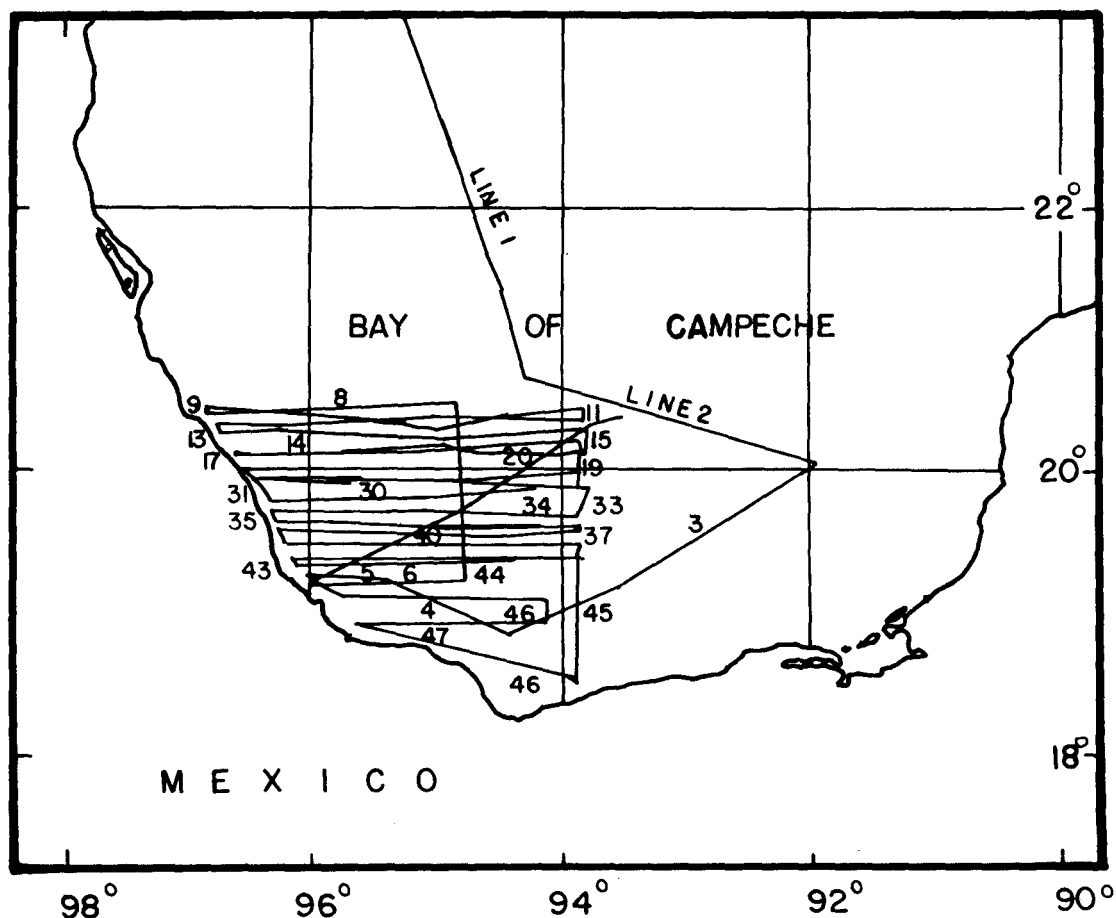
PROJECT:	West Coast Gravity	Date:	1969-1970
Vessel	USNS SHOUP OSS SURVEYOR and Others		
Agency	NAVOCEANO and ACIC	NGDC File No.	00078



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry		X			
Gravity					
Magnetic		X			
Seismic		X			

Remarks: Tracklines shown are reconnaissance cruises only.
ARTIC SEAL and ATLANTIC SEAL ran 5 detail cruises
in this same area.

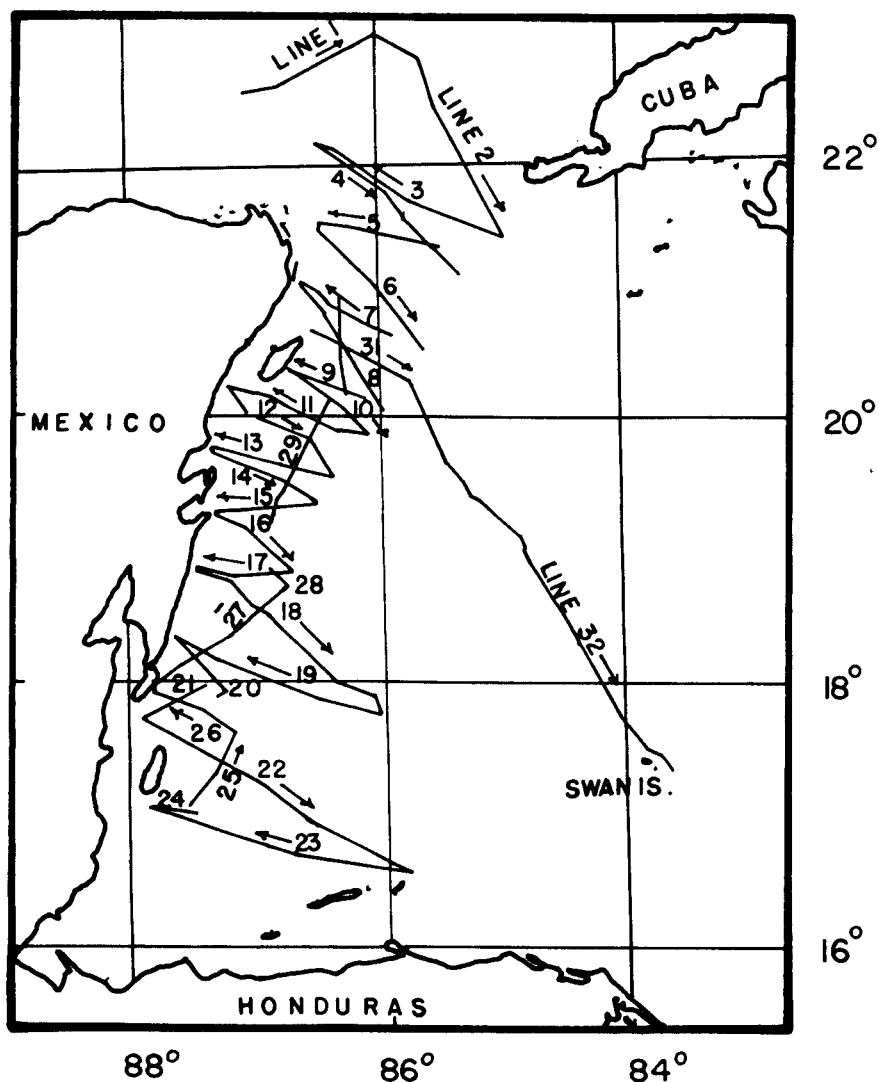
PROJECT: Mediterranean Sea Task Area 6 Date: Jan.-April, 1967
Vessel ARTIC SEAL ATLANTIC SEAL
Agency Texas Instruments-NAVOCEANO NGDC File No. 00079



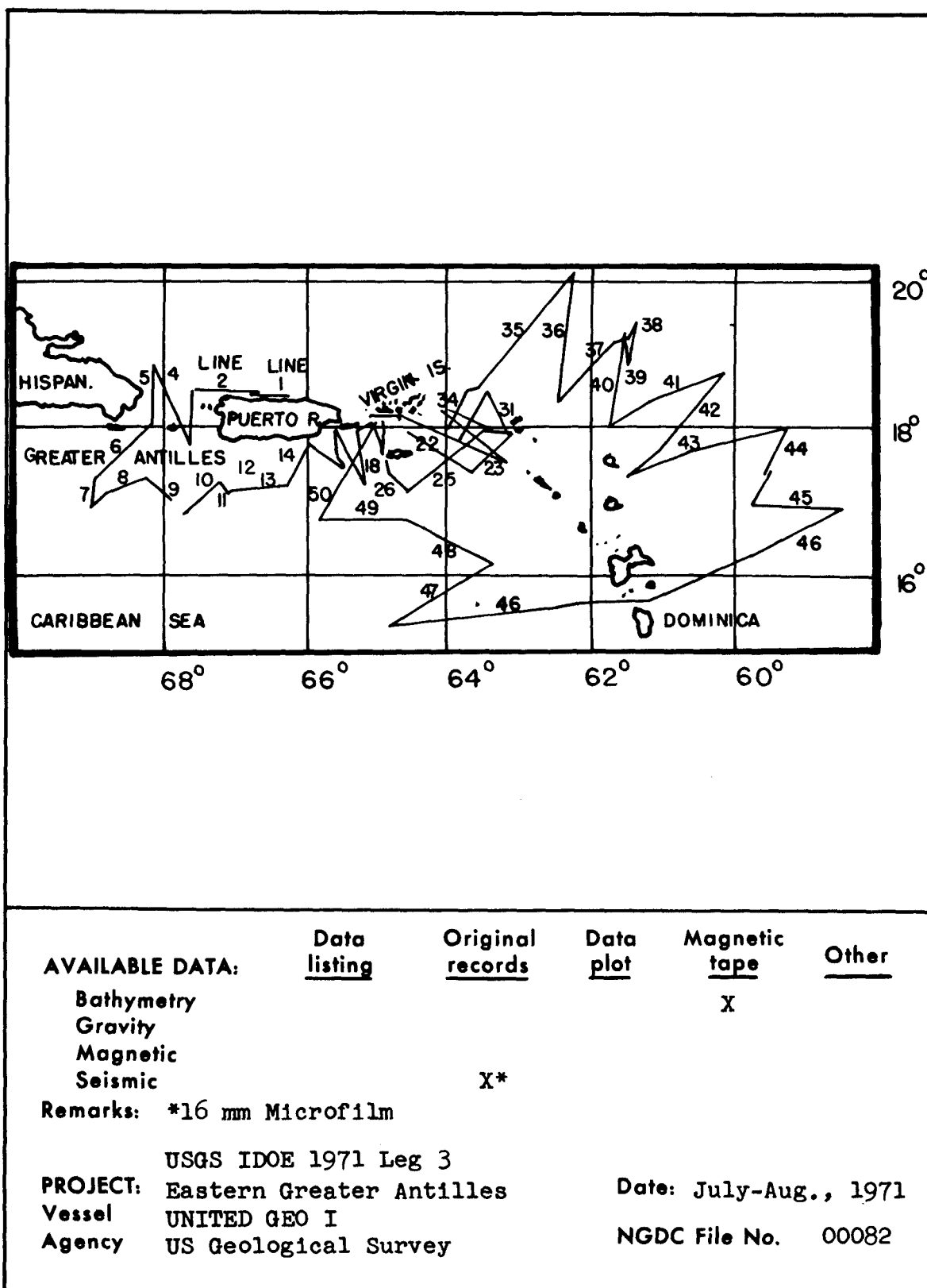
AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry				X	
Gravity					
Magnetic					
Seismic		X			
Remarks:					

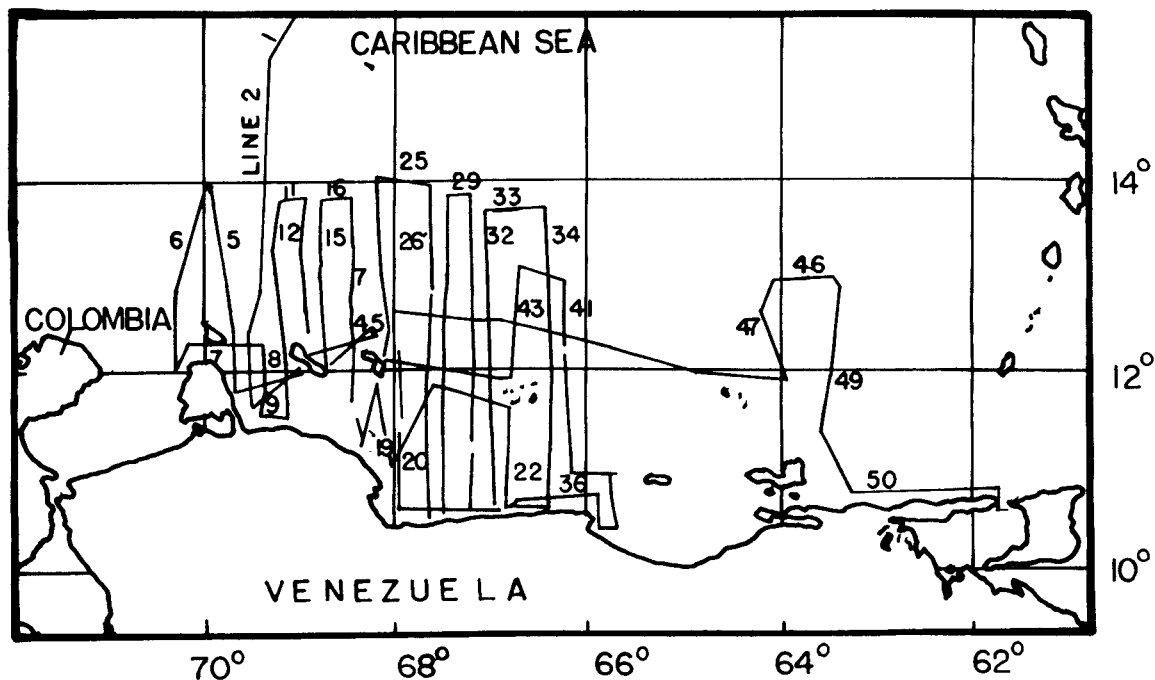
PROJECT: USGS IDOE 1971
 Leg 1, Bay of Campeche
 Vessel: UNITED GEO I
 Agency: US Geological Survey

Date: May-June, 1971
 NGDC File No. 00080



AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry				X	
Gravity					
Magnetic					
Seismic		X*			
Remarks: *16 mm Microfilm					
PROJECT: USGS IDOE 1971 Leg 2					
East Margin Yucatan Peninsula Date: June-July, 1971					
Vessel	UNITED GEO I				
Agency	US Geological Survey				
	NGDC File No. 00081				

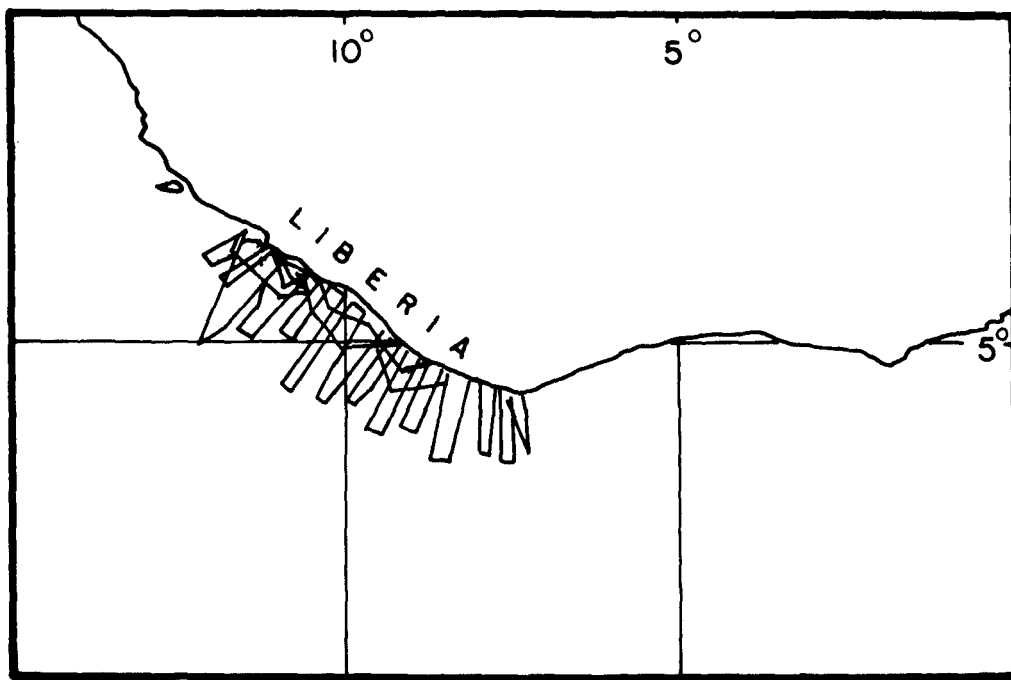




AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry				X	
Gravity					
Magnetic					
Seismic		X*			

Remarks: *16 mm Microfilm

Venezuelan Continental Borderland		
PROJECT:	USGS IDOE 1971 Leg 4	Date: Aug.-Sept., 1971
Vessel	UNITED GEO I	
Agency	US Geological Survey	NGDC File No. 00083

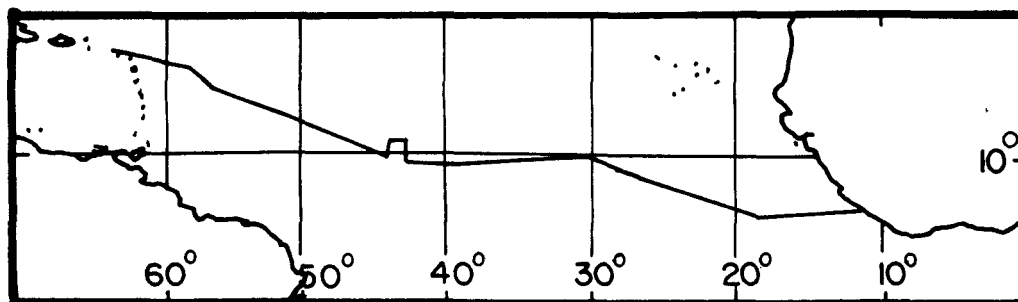


AVAILABLE DATA:	<u>Data listing</u>	<u>Original records</u>	<u>Data plot</u>	<u>Magnetic tape</u>	<u>Other</u>
Bathymetry				X	
Gravity					
Magnetic					
Seismic					

Remarks:

PROJECT: Continental Margin Liberia
 USGS IDOE 1971 Leg 5
 Vessel UNITED GEO I
 Agency US Geological Survey

Date: Oct.-Nov., 1971
 NGDC File No. 00084



AVAILABLE DATA:

Bathymetry
Gravity
Magnetic
Seismic

Data
listing

Original
records

Data
plot

Magnetic
tape

Other

X

Remarks:

PROJECT: Liberia - Puerto Rico Traverse
USGS IDOE 1971, Leg 6
Vessel UNITED GEO I
Agency US Geological Survey

Date: Nov.-Dec., 1971
NGDC File No. 00085

SECTION V

MICROFILM REEL INDEX

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00001	1-01	1-02 thru 1-06			1-01
00002	2-08 2-36	2-01 thru 2-05 2-09 2-10 2-11 2-36 thru 2-39	2-07 2-12 2-13	2-07 2-14 2-15 2-16 2-18 thru 2-35	2-06
00003	3-01				3-01
00004	4-01	4-01			4-01
00005	5-01	5-01	5-03 5-04 5-05	5-02	
00006	6-01	6-04 thru 6-08	6-02 6-08	6-03 6-08	6-09
00007	7-01	7-02	7-01	7-01	
00008	8-01	8-01	8-01	8-01	
00009 A Day	9-01	9-01 9-02 9-18	9-01 9-18	9-01 9-18	
00009 B Day	9-03	9-04	9-03 9-04	9-03	
00009 C Day	9-05	9-02 9-05	9-05	9-05	
00009 D Day	9-06	9-04	9-06	9-06	9-04
00009 E Day	9-06	9-04 9-07 9-13	9-06	9-06	9-07 9-08
00009 F Day	9-08	9-09 9-13	9-08 9-13 9-18	9-08 9-13 9-18	9-08 9-09
00009 G Day	9-10 9-11	9-11 9-13 9-18	9-10 9-13 9-18	9-10 9-13 9-18	9-11 9-12
00009 H Day	9-10 9-14	9-14 9-15 9-18	9-10 9-15 9-18	9-10 9-15 9-18	9-12
00009 J Day	9-17 9-18	9-16 9-18	9-16 9-17 9-18	9-16 9-17 9-18	9-18
00009 K Day	9-19	9-16 9-20	9-15 9-19	9-15 9-19	9-20

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00009 L Day	9-21	9-16 9-21 9-22	9-15 9-21	9-15 9-21	
00009 M Day	9-23	9-24	9-23 9-30	9-23 9-30	
00009 N Day	9-25	9-16 9-26	9-16 9-25	9-16 9-25	
00009 P Day	9-27	9-29	9-27	9-27	
00009 Q Day	9-28	9-29	9-28	9-28	
00010	10-01	10-02 10-05	10-01 10-03 10-05	10-01 10-04 10-05	
00011	11-01	11-02 11-03	11-03	11-01 11-03	
00012	12-01	12-01	12-01	12-01	
00013	13-01	13-01	13-02 13-03		
00014	14-01 14-02	14-03 thru 14-08	14-09 14-18 14-19	14-09 thru 14-17	
00015	15-01	15-02	15-01		
00016	16-01	16-01	16-01	16-01	
00018	18-01	18-01			18-01
00019	19-08			19-01 thru 19-07	19-08
00020	20-02 20-04 20-06	20-01 thru 20-04 20-06	20-01 20-03 20-05 20-06	20-01 thru 20-06	20-01 20-03 20-05
00021	21-01 21-02	21-01	21-03	21-02 21-03	
00022	22-01 thru	22-01 thru	22-01 thru	22-01 thru	
00023	22-04	22-04	22-04	22-04	
00025	23-01 25-01 thru	23-01 25-01 thru	23-01	23-01	
00028	25-09 28-01	25-09			28-01
00029	29-01	29-01			29-01
00030	30-01				30-01 30-02
00031	31-01 31-02	31-03	31-02		31-01
00032	32-01				32-01
00033	33-01				33-01
00034					34-01 thru 34-06

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00035	35-01	35-01			35-04
	35-03	35-02			
	35-04	35-03			
00036	36-01	36-01			36-02
	36-02				
00037	37-01				37-01
00038	38-01				38-01
00039	39-01	39-01			39-01
00040	40-01		40-01		40-02
					40-03
00041	41-01				41-01
00042	42-01	42-01			42-01
00043					43-01
00044					44-01
00045	45-01				45-01
00046	46-01	46-01			
00047					47-01
00048	48-01	48-01	48-01		48-01
		48-02	48-02		48-02
00049		49-01			49-01
00050	50-01				50-01
00051	51-01	51-01	51-01	51-01	
00052	52-01	52-01	52-01	52-01	52-02
00053	53-01				53-01
					53-02
00056	56-01	56-01	56-01		
	56-02	56-02	56-02		
00057	57-01	57-01	57-01	57-01	
	57-02	57-02	57-03	57-03	
	57-04	57-04	57-04	57-04	
		57-03			
00058	58-01	58-01	58-02	58-02	58-02
	58-03	58-03	58-04	58-04	58-04
	58-05	thru	58-06	58-06	58-06
		58-06			
00059	59-01				59-01
00060	60-01	60-01			
00061	61-01	61-01			
00062					62-01
00063	63-01	63-01	63-04		63-03
			thru		
			63-08		
00064	64-01	64-01	64-07		64-05
		thru	thru		64-06
		64-04	64-13		
00065	65-01	65-01	65-05		65-11
		thru	thru		65-12
		65-04	65-10		
00066	66-01	66-01	66-03		66-07
		66-02	thru		
			66-06		

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>	<u>SEISMICS</u>
00067	67-01	67-01 thru 67-05	67-06 thru 67-13		67-14 67-15
00068	68-01	68-01 thru 68-04	68-05 thru 68-13		68-14 68-15
00069	69-01	69-01 69-02	69-03	69-03 thru 69-07	
00079	79-01	79-01 79-02 79-03	79-04 thru 79-10		79-11 79-12
00080	80-01				80-02
00081	80-01				81-01
00082	80-01				82-01
00083	80-01				83-01

SECTION VI

PROJECTS ON MAGNETIC TAPE

<u>FILE NO.</u>	<u>NAVIGATION</u>	<u>BATHYMETRY</u>	<u>MAGNETICS</u>	<u>GRAVITY</u>
00002	X	X	X	X
00005	X	X	X	X
00024	X	X	X	X
00052	X	X	X	X
00054	X	X	X	X
00055	X	X	X	X
00070	X	X	X	X
00071	X	X	X	X
00072	X		X	
00073	X	X	X	
00074	X	X	X	
00075	X	X	X	X
00076	X			X
00077	X			X
00078	X			X
00080	X	X		
00081	X	X		
00082	X	X		
00083	X	X		
00084	X	X		
00085	X	X		