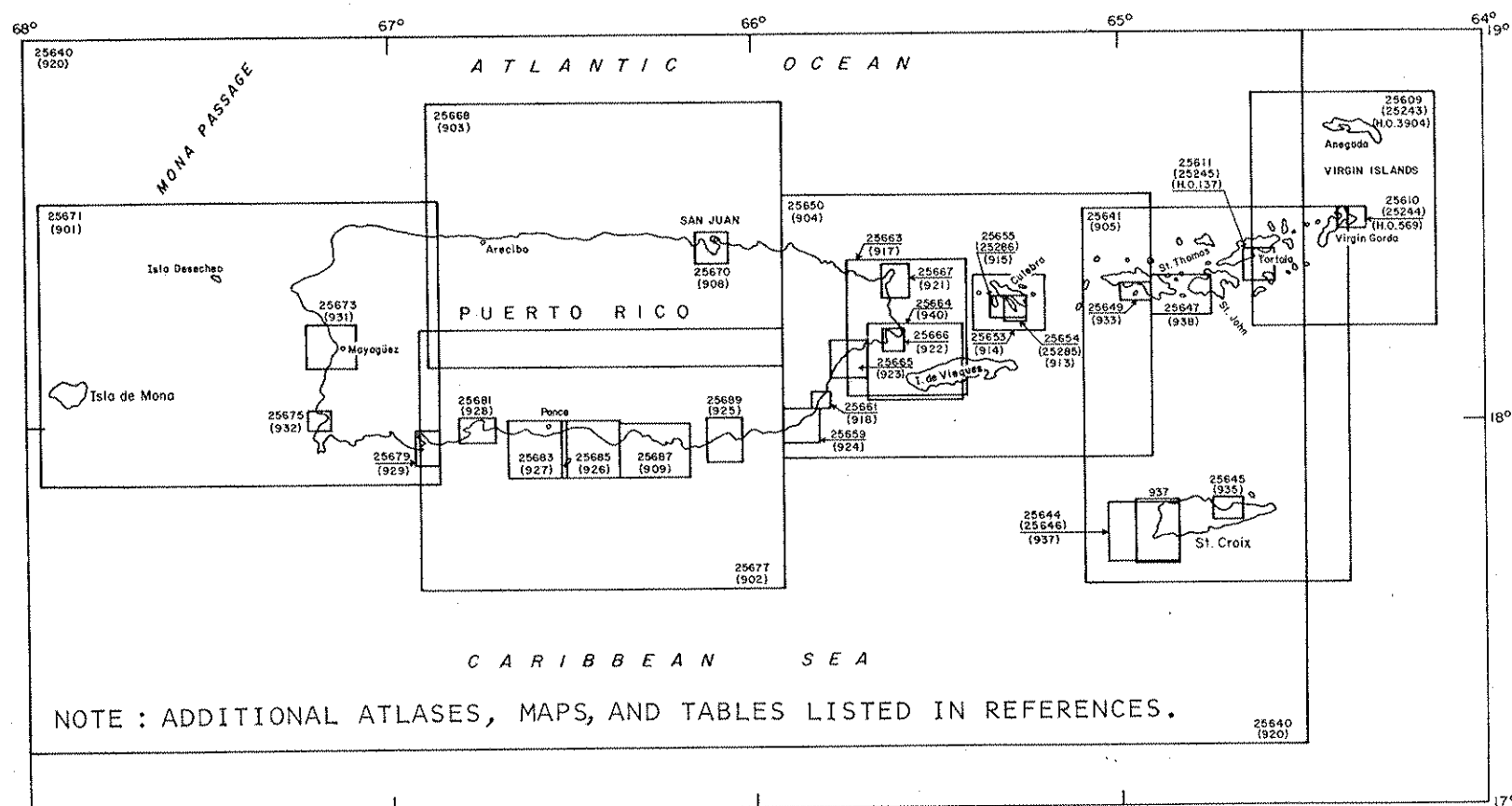
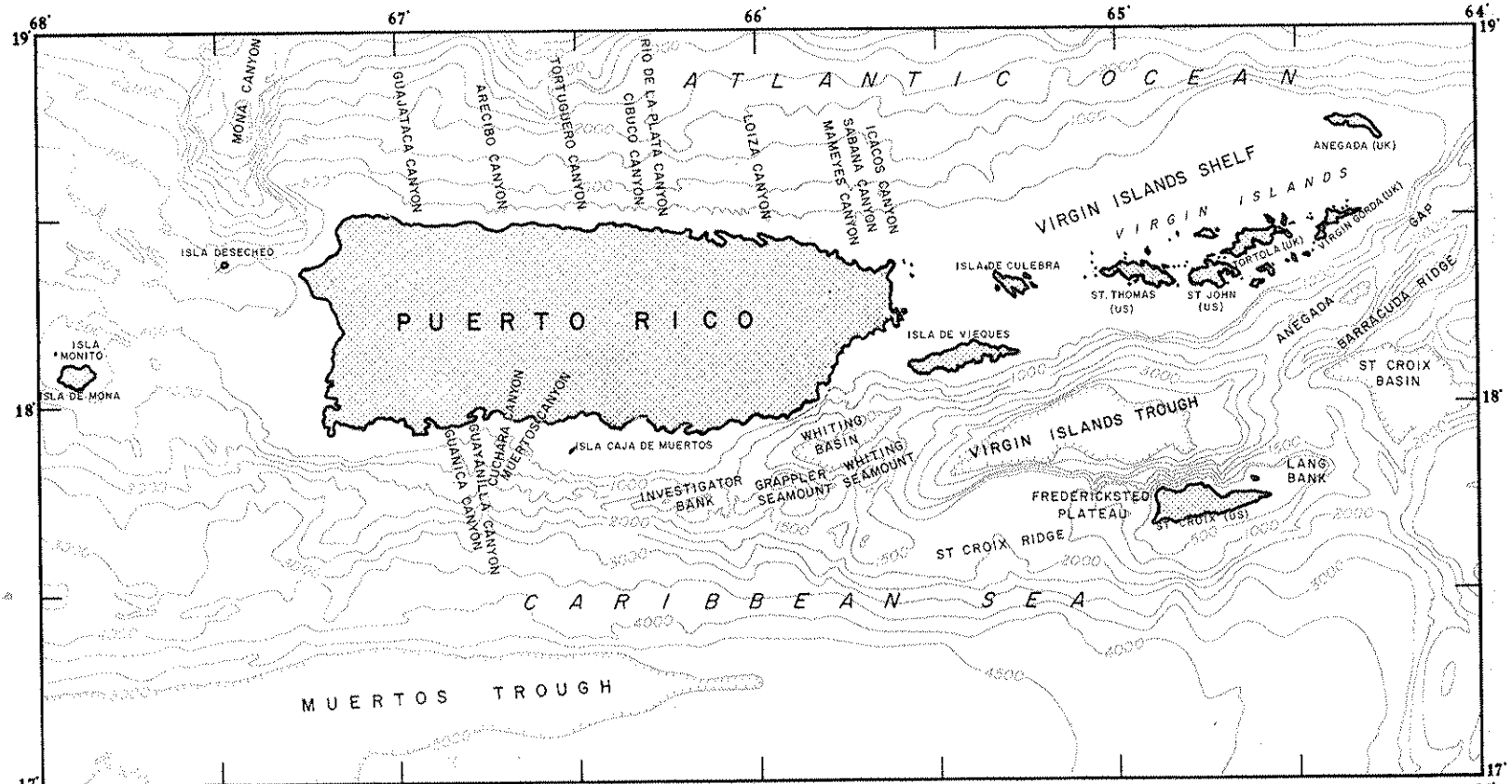


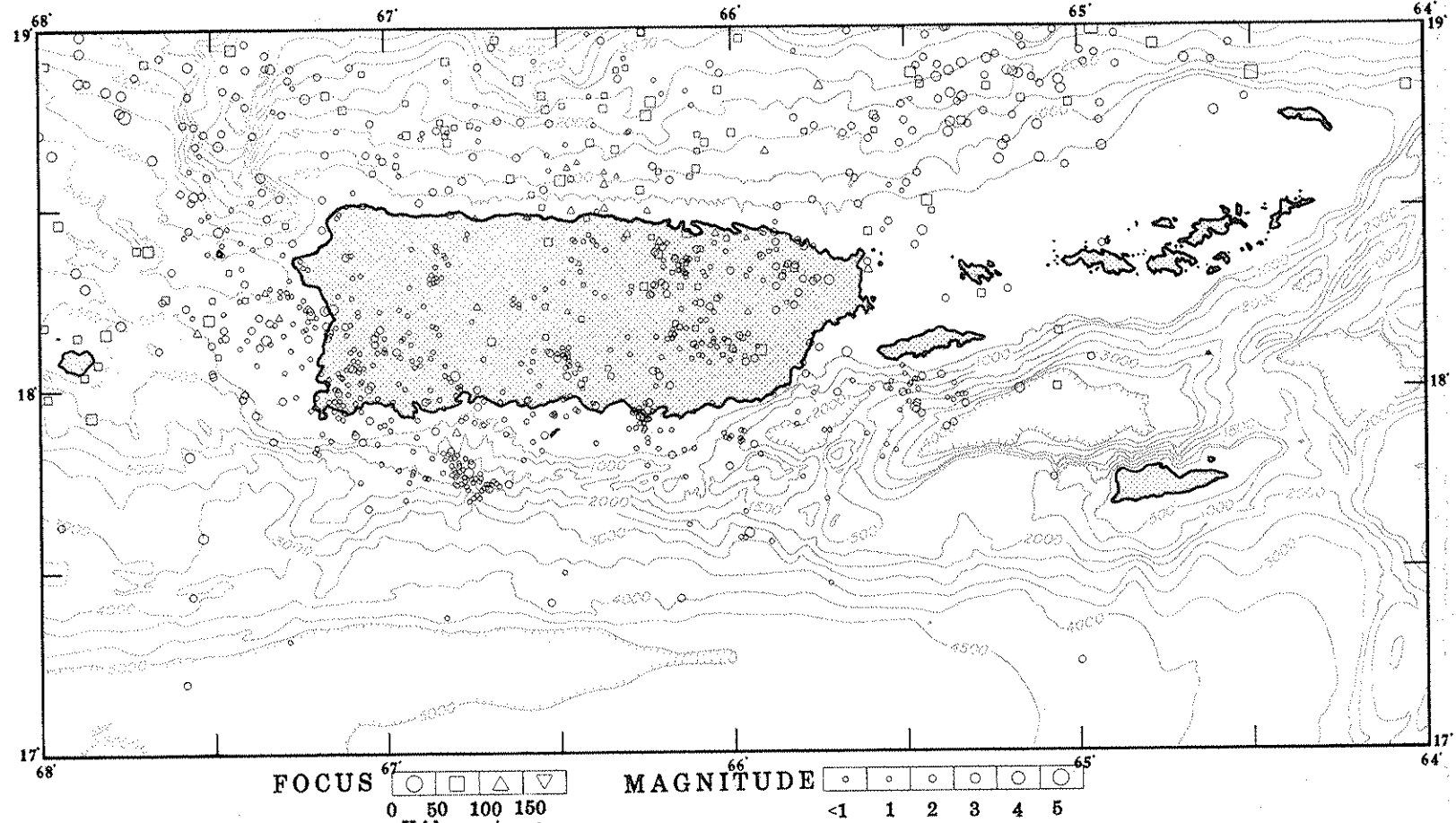
NATIONAL OCEAN SURVEY CHARTS



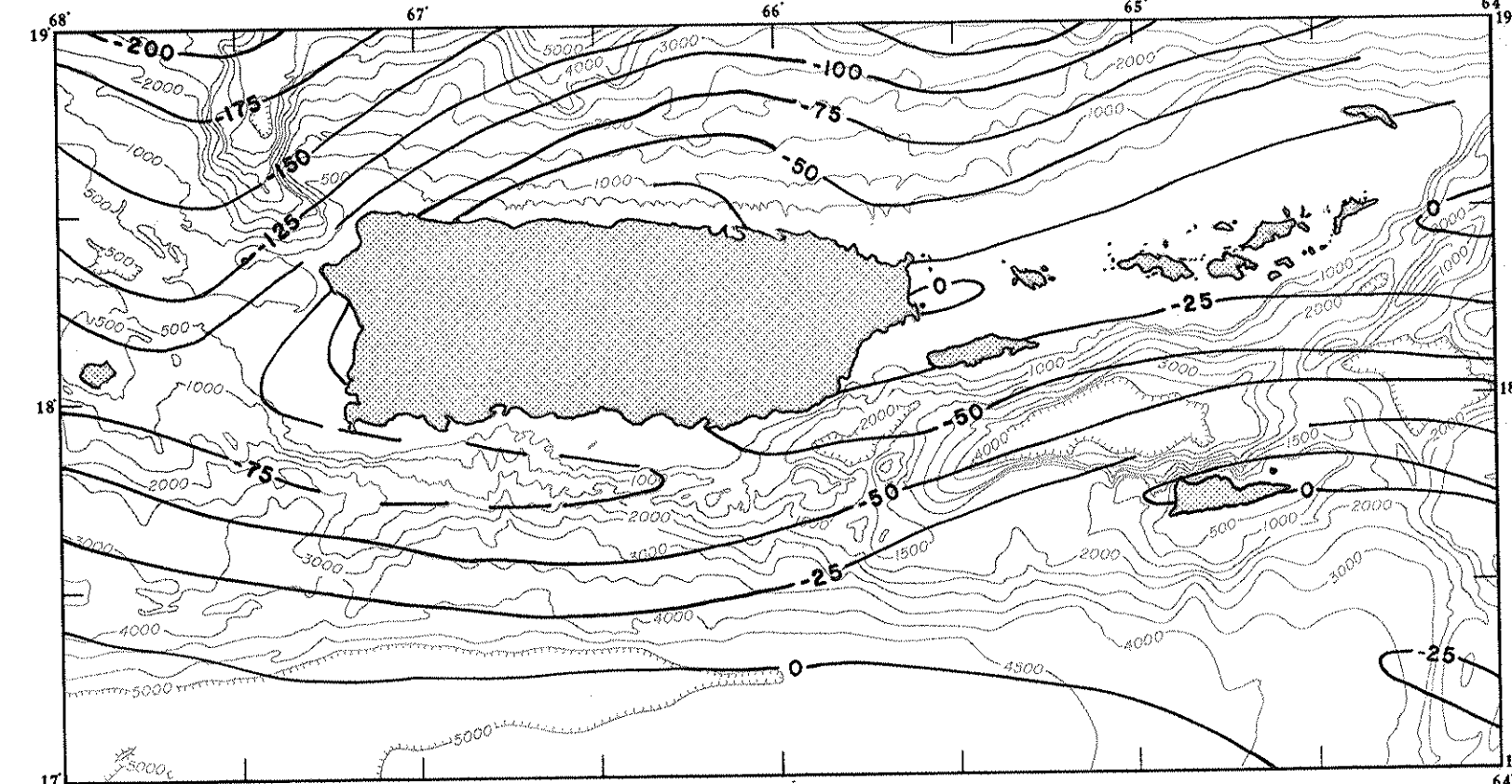
GEOGRAPHIC FEATURES



EARTHQUAKE EPICENTERS



GRAVITY ANOMALY



MERCATOR PROJECTION
CONTOUR INTERVAL 100 METERS
CORRECTED FOR SOUND VELOCITY
SCALE 1:781,786 at 18°N.

OCEANOGRAPHIC DATA off PUERTO RICO and the VIRGIN ISLANDS

Prepared by:
J.V.A.Trumbull¹

Compiled by:
P. Wilde², T. E. Chase¹, W. R. Normark¹, C. P. Miller¹, B. A. Seekins¹, and J. D. Young¹.

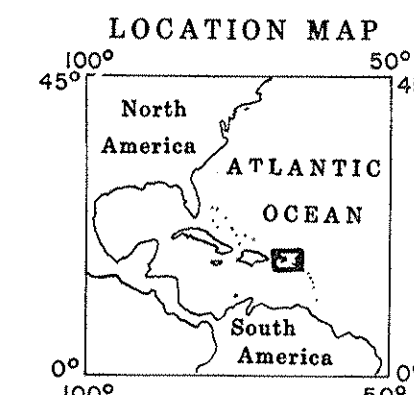
EXPLANATION:
THIS IS THE SECOND IN A SERIES OF SHEETS TO BE USED TO IDENTIFY THE MARINE GEOLOGIC FACTORS THAT INFLUENCE THE SUCCESSFUL OPERATION OF OCEAN THERMAL ENERGY CONVERSION (OTEC) PLANTS. THE FIRST SHEET WAS OFF THE SOUTHERN HEMISPHERIC ISLANDS (REFERENCE: LBL PUB. NO. 359). THIS REGIONAL COMPILATION WILL FORM THE BASIS FOR

SELECTION OF LARGER SCALE SITE SPECIFIC AREAS WHERE MORE DETAILED BOTTOM ASSESSMENT STUDIES WILL BE MADE.
THIS DATA COMPILATION IS DESIGNED TO GIVE REGIONAL COVERAGE OF THE MARINE AREAS IN THE VICINITY OF PUERTO RICO AND THE VIRGIN ISLANDS.
THE AIM OF THIS STYLE OF CHART IS

TO PROVIDE MAPS OF CONVENIENT SIZE THAT (1) SUMMARIZES THE OCEANOGRAPHIC DATA FOR THE PARTICULAR AREA; (2) CAN BE USED AS A BASE MAP FOR MARINE GEOLOGIC INVESTIGATIONS; (3) IS A WORKING CHART DURING SUBSEQUENT SHIPBOARD OPERATIONS; AND (4) CAN BE REVISED AND MODIFIED EASILY AS NEW INFORMATION BECOMES AVAILABLE.

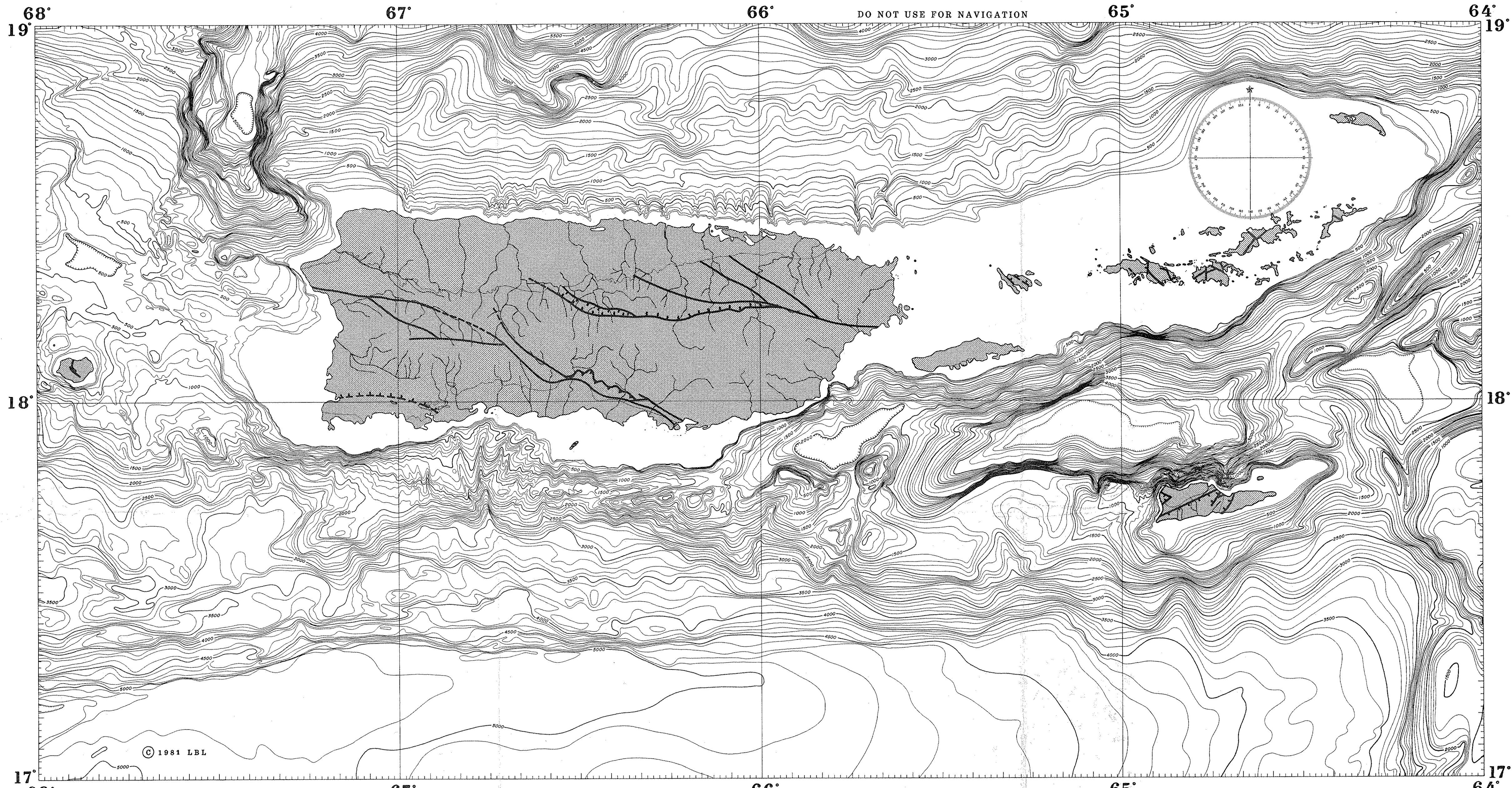
THIS MAP IS NOT TO BE USED FOR NAVIGATION. THE APPROPRIATE CHARTS ARE SHOWN IN FIGURE 1 TO THE LEFT.

DEDICATED TO:
HARRY H. HESS
May 24, 1906 - Aug. 25, 1969
BS, Yale 1927 Ph.D. Princeton 1934
PIONEER CARIBBEAN GEOLOGIST



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MAGNETIC LINEATIONS

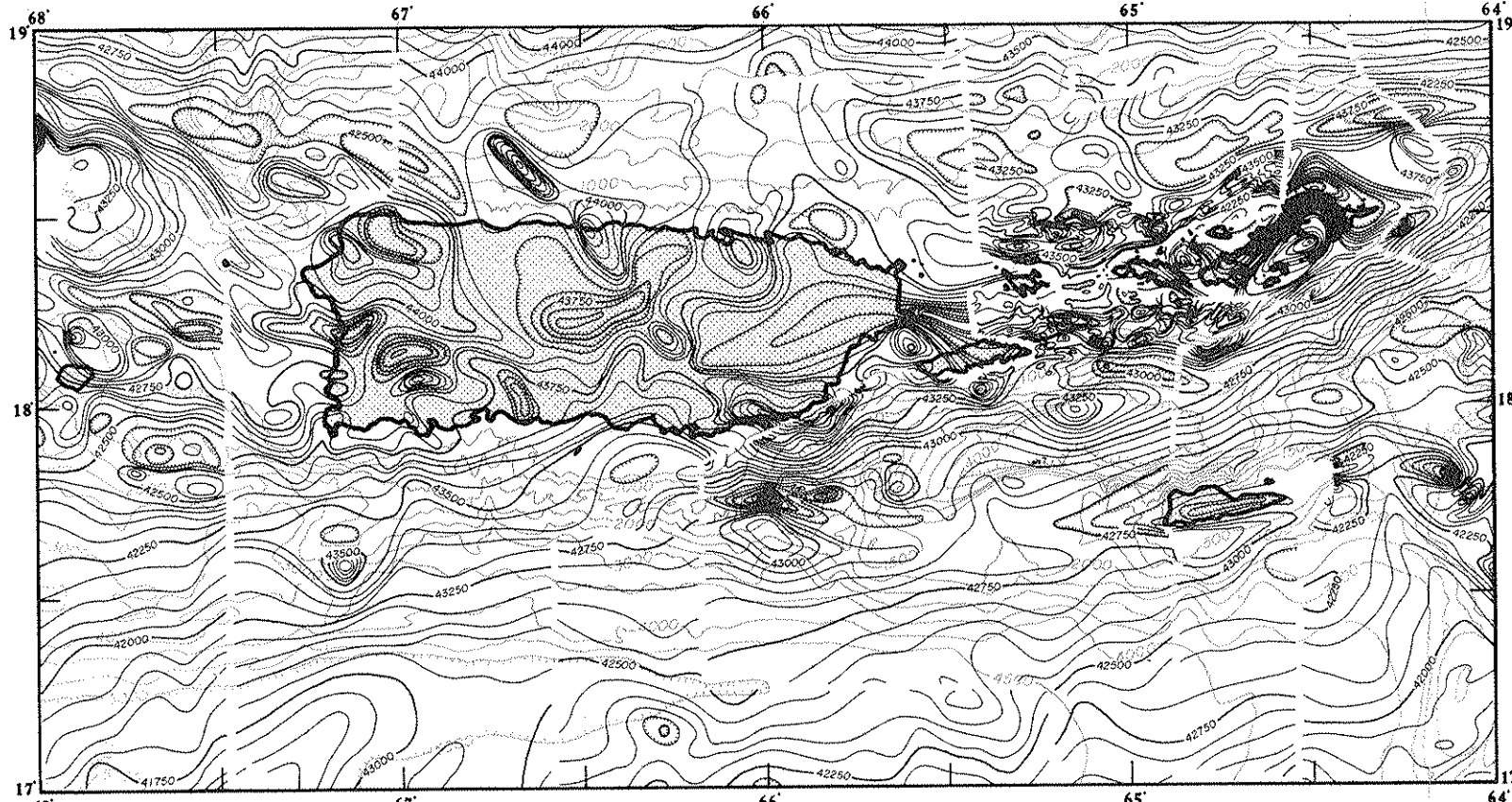


FIGURE 4. TOTAL INTENSITY MAGNETIC FIELD IN THE AREA. REGIONAL FIELD IS NOT REMOVED. CONTOUR INTERVAL IS 50 GAMMAS. REDRAFTED BY PERMISSION FROM MATTHEWS AND HOLCOMBE, 1976. COMPILED FROM VARIOUS DETAILED SURVEYS BY MATTHEWS AND HOLCOMBE.

BOTTOM SEDIMENTS & HEAT FLOW STATIONS

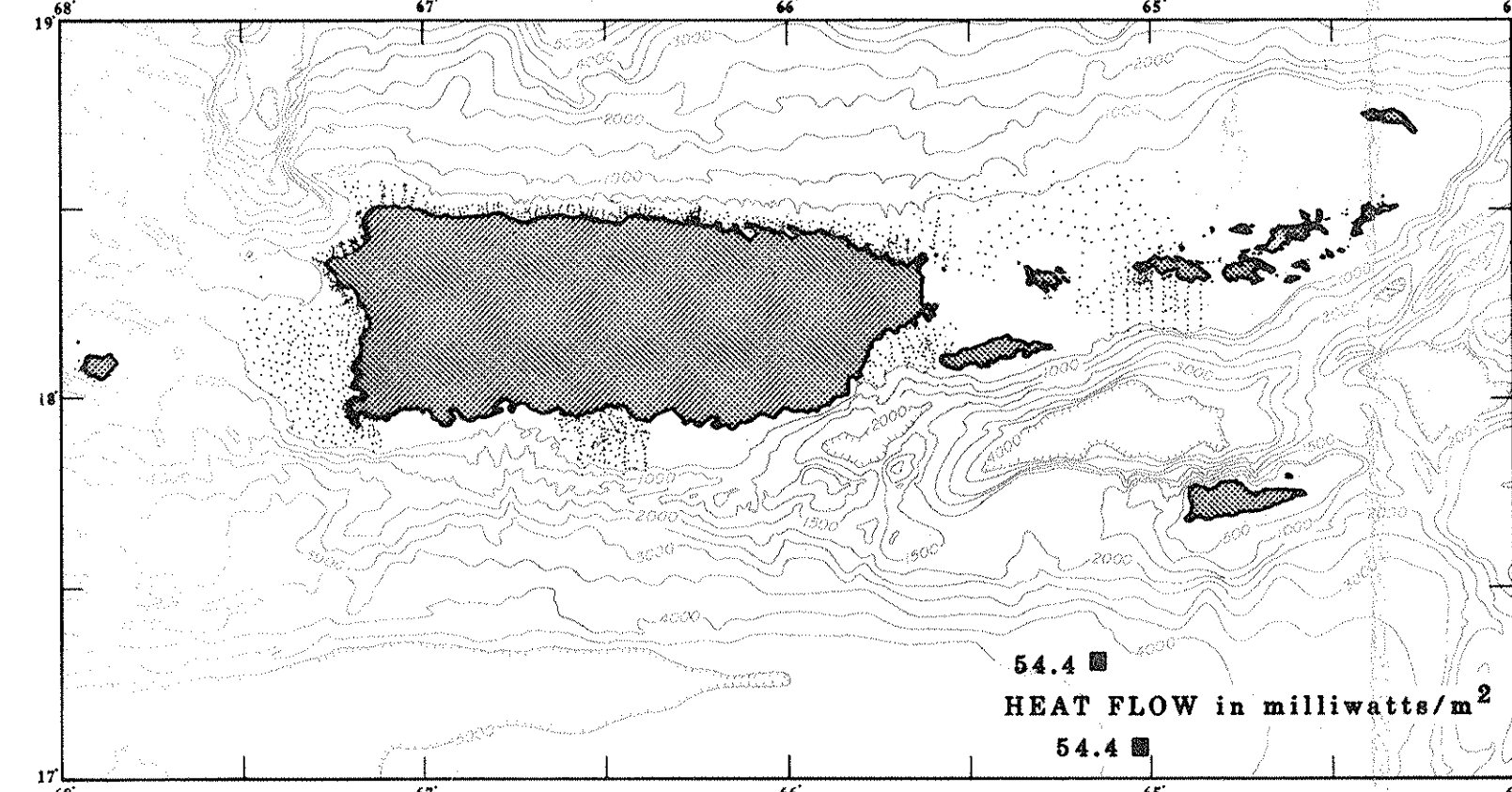


FIGURE 5. DATA FROM C.W. HOLMES, U.S. GEOLOGICAL SURVEY, CORPUS CHRISTI, TEXAS; R.F. DILL, WEST INDIES LABORATORY, FAIRLEIGH DICKENSON UNIVERSITY, CHRISTIANSTED, ST. CROIX; FILES OF THE NATIONAL GEOPHYSICAL AND SOLAR TERRESTRIAL DATA CENTER, BOULDER, COLORADO; AND FILES OF THE COMMONWEALTH OF PUERTO RICO, DEPARTMENT OF NATURAL RESOURCES COOPERATIVE MARINE GEOLOGY PROGRAM.

SURFACE WINDS

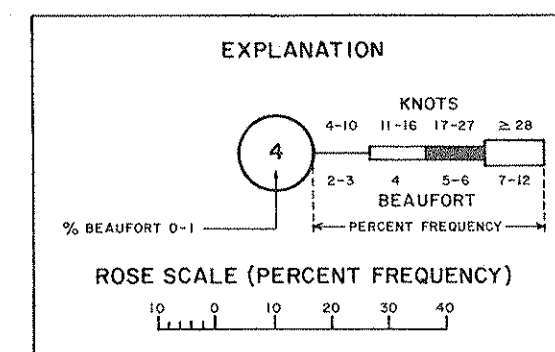
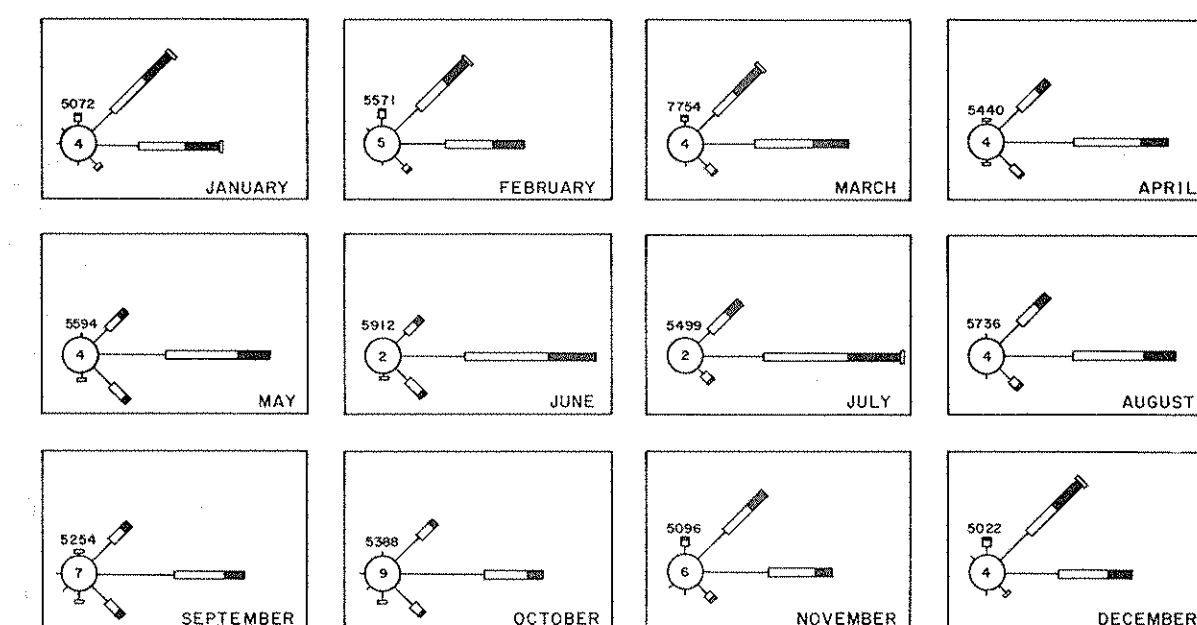


FIGURE 6. SURFACE WINDS BY MONTH. FROM U.S. NAVAL OCEANOGRAPHIC OFFICE, 1967, SECTION IV, PAGES 6-50.