UNITED STATES

MAGNETIC MAP

CALIFORNIA

NOS 1306N-19M

SANTA ROSA ISLAND

SAN MIGUEL PASSAGE

PATTON ESCARPMENT

SAN JUAN SEAMOUNT

MAGNETIC LEGEND

CONTOUR INTERVAL 50 GAMMAS

Positive Values

Zero Reference

Negative Values

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U.S. DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL OCEAN SURVEY

1973

MAGNETICS

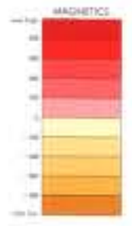
The total magnetic field intensity was measured using ship positions using a Varian Proton-precession magnetometer. The magnetometer sensor was towed far enough behind the ship so that the effect of the ship's magnetic field is considered negligible and therefore is omitted this charting accuracy.

Residual magnetic field data were derived using as reference the IGRF 1965.0 Definitive Report C & GS 46, Volume one Public, 1969 published by the World Magnetic Survey Board, IAGA, on October 31, 1967. In practice, reference field values were interpolated at the ten points of each monthly segment and linearly interpolated between them. The reference field was computed for the actual date of each monthly segment. The resulting survey was not reduced to a single epoch (date) but an average epoch of 1970.45 may be assumed. A -100 gamma bias was removed from the 0.125° Intraghose. This bias was noted by A.E. Theberge in an earlier map published by NOAA in 1968 (H.O. A.E. Theberge's East Pacific Magnetic Anomaly Map of 40°/35°/130°/120° Data was shaded above the +100 gamma contour to depict anomaly highs. Removal of the -100 gamma bias and a change of color keys at zero accomplishes the same effect on this map. Contouring was done on hand plots of data along ship's tracks.

Data used from over-ran screened for diurnal or disturbance variations in the magnetic field. Data acquired during disturbed intervals were edited. The criterion for disturbance was an occurrence of a 3-cycle five or greater on the magnetogram from the NOAA geomagnetic observatory in Tucson, Arizona. Cross-or-tracklines crossings were generally within 20 gammas of each other.

LOCATION DIAGRAM

MAGNETICS



TRANSVERSE MERCATOR PROJECTION

Scale 1:250,000

NOS 1306N-19M

SOUTHWEST OF SANTA ROSA ISLAND

PRICE $2.00