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U.S. GEOLOGICAL SURVEY
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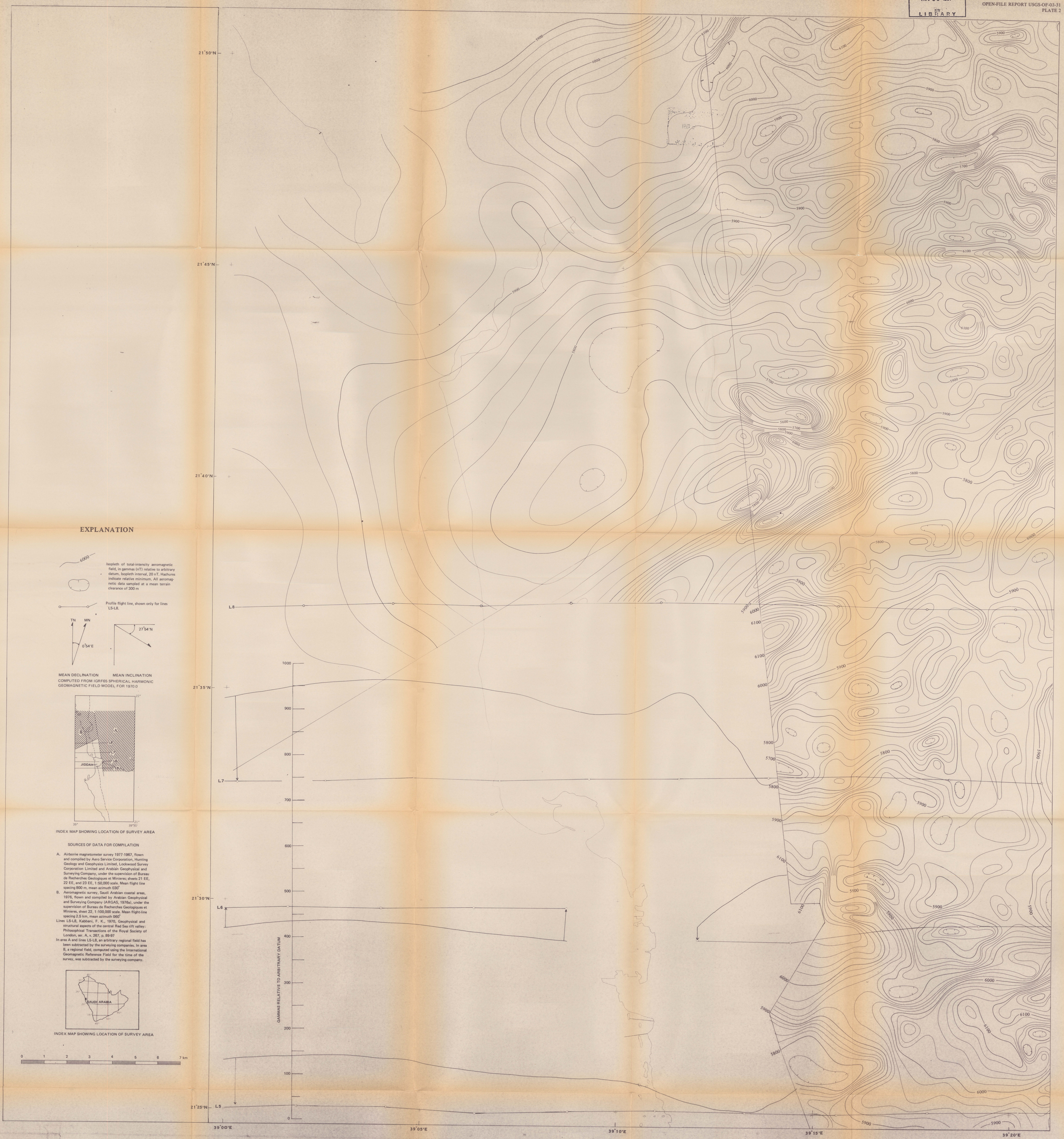
PLATE 2



EXPLANATION

6000 — Isopleth of total-intensity aeromagnetic field, in gammas (nT) relative to arbitrary datum. Isopleth interval, 20 nT. Hachures indicate relative minimum. All aeromagnetic data sampled at a mean terrain clearance of 300 m

Profile flight line, shown only for lines L5-L8.

TN MN 0°54'E — MEAN DECLINATION

27°54'N — MEAN INCLINATION

COMPUTED FROM IGRF65 SPHERICAL HARMONIC GEOMAGNETIC FIELD MODEL FOR 1970.0

INDEX MAP SHOWING LOCATION OF SURVEY AREA

SOURCES OF DATA FOR COMPILATION

A. Airborne magnetometer survey 1977-1967, flown and compiled by Aero Service Corporation, Hunting Geology and Geophysics Limited, Lockwood Survey Corporation Limited and Arabian Geophysical and Surveying Company, under the supervision of Bureau de Recherches Geologiques et Minieres; sheets 21 EE, 22 EE, and 23 EE, 1:50,000 scale. Mean flight line spacing 800 m, mean azimuth 030°

B. Aeromagnetic survey, Saudi Arabian coastal areas, 1976, flown and compiled by Arabian Geophysical and Surveying Company (ARGAS, 1976a), under the supervision of Bureau de Recherches Geologiques et Minieres, sheet 22, 1:100,000 scale. Mean flight-line spacing 2.5 km, mean azimuth 060°

Lines L5-L8, Kabbani, F. K., 1970, Geophysical and structural aspects of the central Red Sea rift valley: Philosophical Transactions of the Royal Society of London, ser. A, v. 267, p. 89-97

In area A and lines L5-L8, an arbitrary regional field has been subtracted by the surveying companies. In area B, a regional field, computed using the International Geomagnetic Reference Field for the time of the survey, was subtracted by the surveying company.

SAUDI ARABIA

INDEX MAP SHOWING LOCATION OF SURVEY AREA

TOTAL-INTENSITY AEROMAGNETIC FIELD MAP OF THE GREATER JIDDAH AREA, KINGDOM OF SAUDI ARABIA

compiled by
G. E. Andreasen, M. E. Gettings, and A. J. Petty

1983