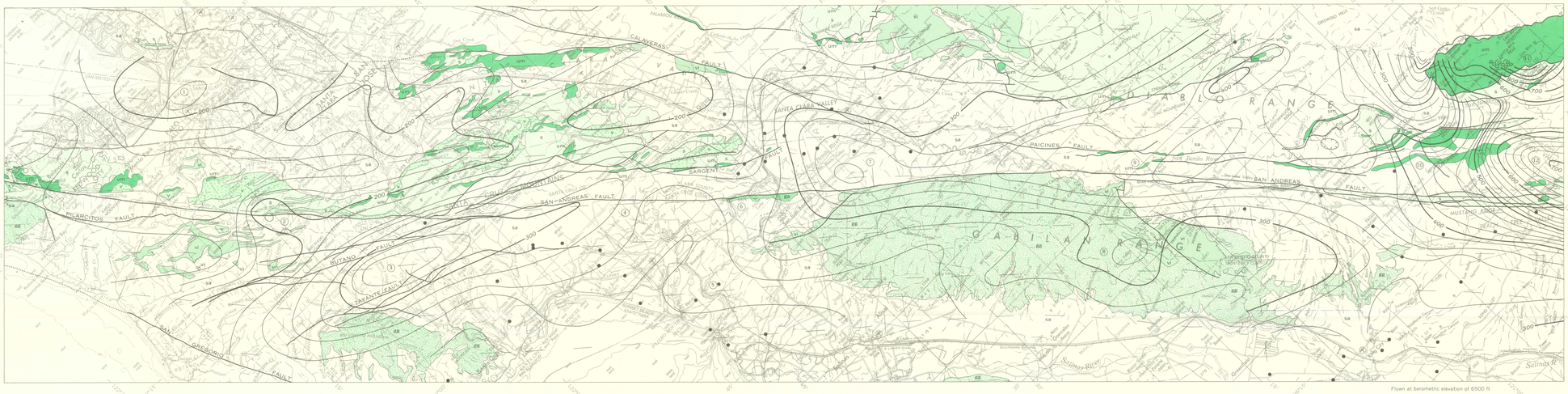
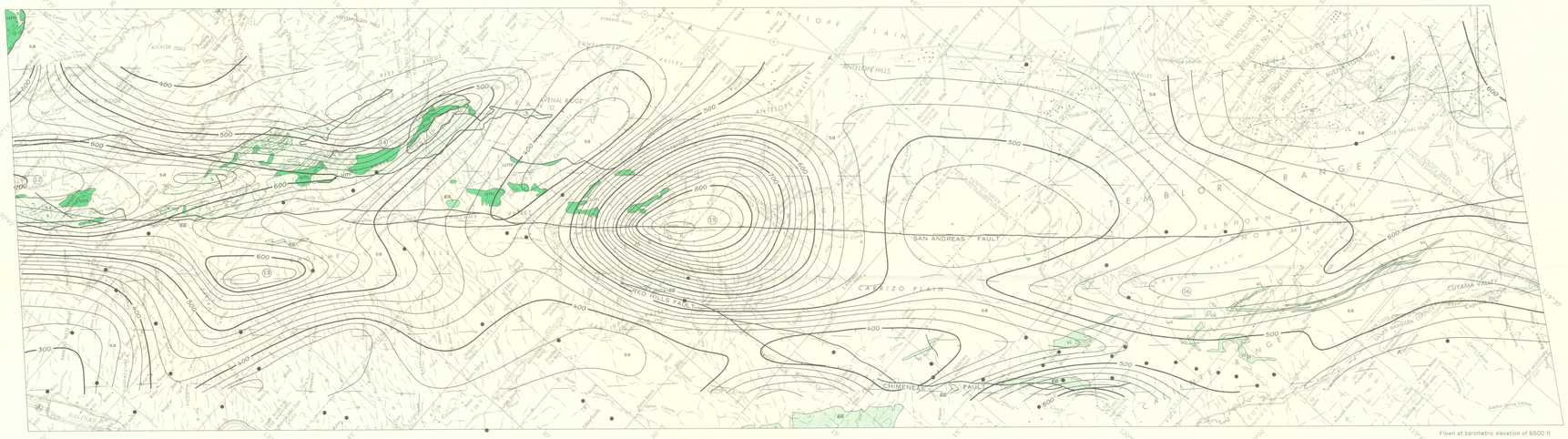
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

GEOPHYSICAL INVESTIGATIONS
MAP GP-815



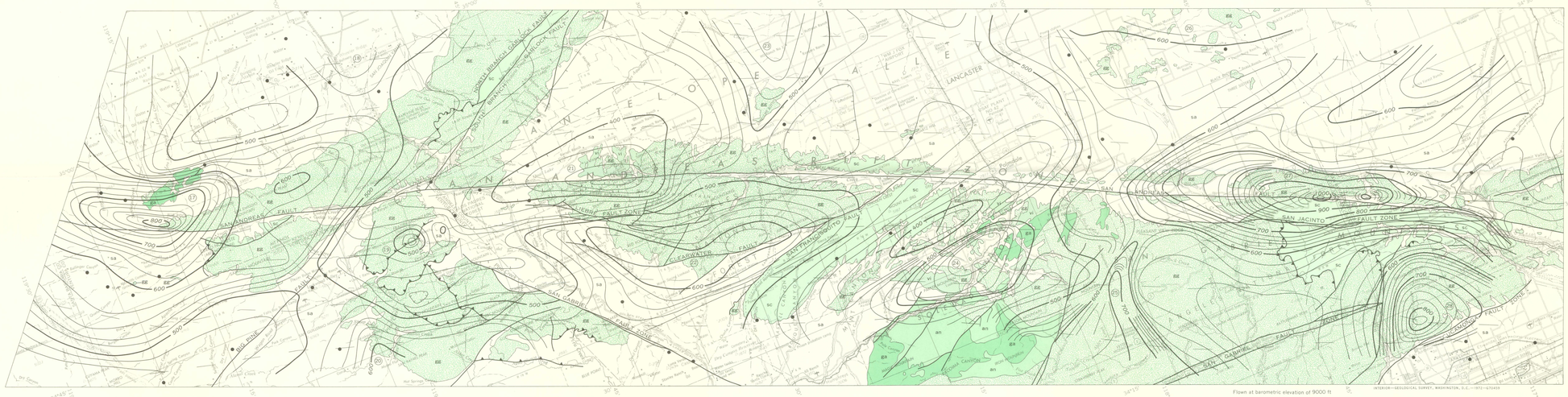
Flown at barometric elevation of 6500 ft

A. SAN MATEO TO PEACH TREE VALLEY



Flown at barometric elevation of 6500 ft

B. PEACH TREE VALLEY TO ELKHORN HILLS



Flown at barometric elevation of 9000 ft

C. ELKHORN HILLS TO CAJON

Base from U.S. Geological Survey: Santa Cruz, 1958; San Luis Obispo, 1963; San Francisco, 1964; Bakersfield, Los Angeles, San Bernardino, and San Jose, 1966

SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

Geology modified from Geologic Map of California, Olaf P. Jenkins edition, San Francisco, San Jose, Santa Cruz, San Luis Obispo, Bakersfield, Los Angeles, and San Bernardino sheets

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1972—G70459

EXPLANATION

BASEMENT COMPLEX

PLUTONIC ROCKS

- gg — Granitic and gneissic rocks. *Includes other metamorphic rocks such as marble, schist, hornfels, and quartzite*
- ga — Gabbro
- an — Anorthosite

PRECAMBRIAN, PALEOZOIC, AND MESOZOIC

TECTONIC FACIES ROCKS

- um — Ultramafic rocks
- sc — Schist
- s, v — Franciscan Formation: *s, sedimentary rocks; v, volcanic rocks*

MESOZOIC(?)

SURFACE ROCKS

- sa — Sedimentary rocks and alluvium
- vi — Volcanic rocks and related shallow intrusive bodies

CENOZOIC

MESOZOIC

Contact

Fault
Dotted where concealed

Thrust fault
Sawteeth on upper plate

Well

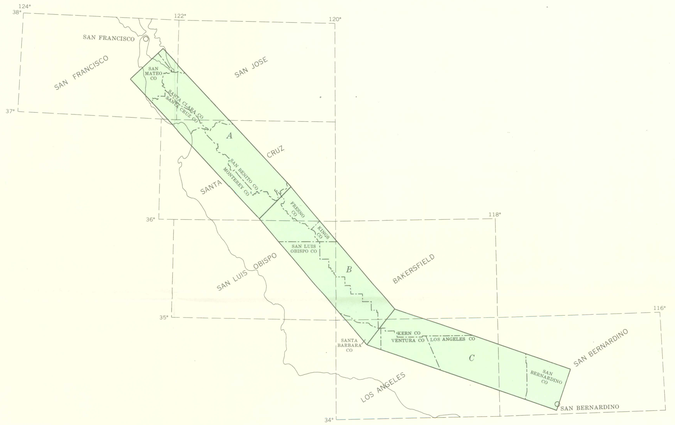
Aeromagnetic contours, showing total intensity of the earth's magnetic field, in gammas, relative to arbitrary datum. Flight elevation is 6,500 ft above sea level in areas north of 35° N. and 9,000 ft above sea level in areas south of 35° N.

Hachured to indicate areas of lower magnetic field intensity. Contour interval 20 and 100 gammas

Regional magnetic gradient averaging 9 gammas per mile in the direction N. 16° E. has been removed from the original data

Flight path

(19) Locality referred to in text



MAP OF SOUTHWESTERN CALIFORNIA SHOWING LOCATION OF SEGMENTS OF AEROMAGNETIC MAP AND U.S. GEOLOGICAL SURVEY 1:250,000 TOPOGRAPHIC QUADRANGLES

INDEX MAP OF CALIFORNIA SHOWING THE AREA STUDIED

AEROMAGNETIC RECONNAISSANCE AND GENERALIZED GEOLOGIC MAP OF THE SAN ANDREAS FAULT BETWEEN SAN FRANCISCO AND SAN BERNARDINO, CALIFORNIA

By
W. F. Hanna, R. D. Brown, Jr., D. C. Ross, and Andrew Griscom

1972

For sale by U.S. Geological Survey, price 75 cents
Explanatory pamphlet accompanies map