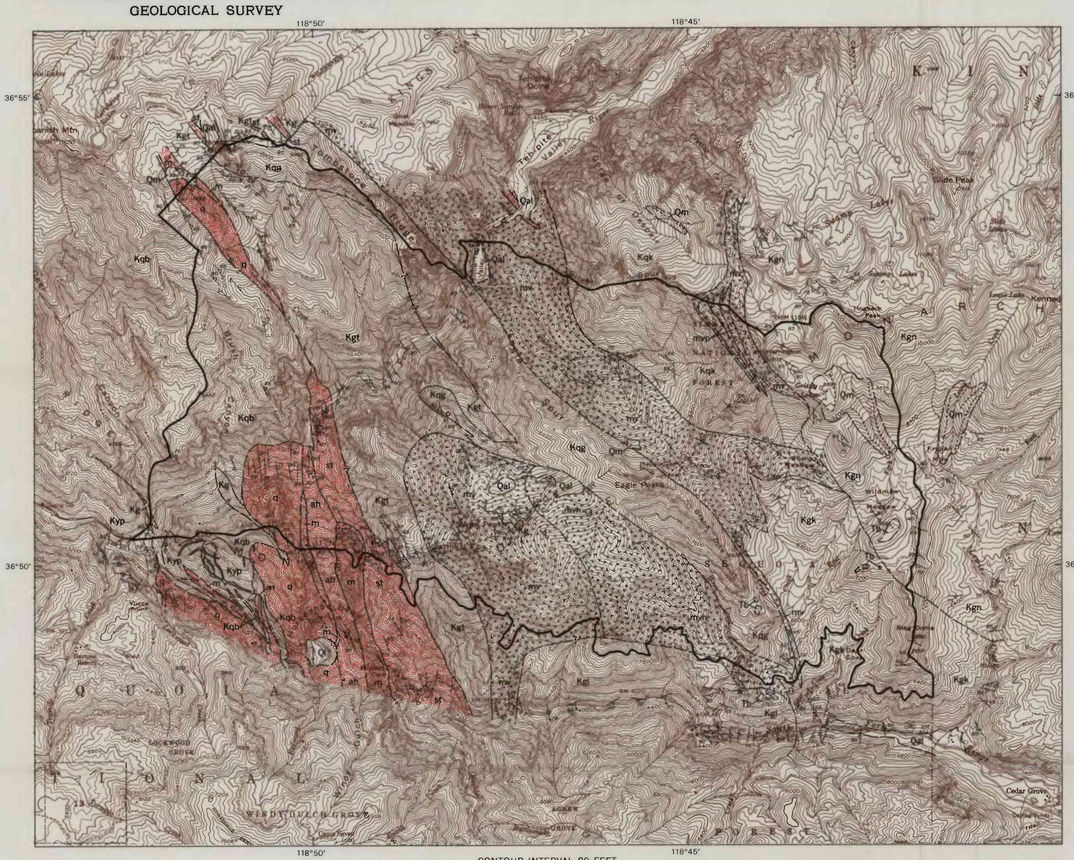
UNITED STATES DEPARMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BULLETIN 1371-A
PLATE 1



Base from U.S. Geological Survey
Tehipite Dome and Marion Peak,
1967

CONTOUR INTERVAL 80 FEET
DATUM IS MEAN SEA LEVEL

EXPLANATION

UNCONSOLIDATED DEPOSITS

Qal / Qm / Ql — Surficial deposits
Qal, *alluvium*
Qm, *moraine. Dashed line shows crests*
Ql, *landslide deposits*

VOLCANIC ROCKS

Tb — Basalt

PLUTONIC ROCKS

Kg — Diorite and gabbro

Kyp — Quartz diorite of Yucca Point

Kgk / Kgl / Kgn / Kgt — Granodiorite
Kgk, *granodiorite of Lookout Peak*
Kgl, *granodiorite of Lightning Creek*
Kgn, *granodiorite of North Dome*
Kgt, *granodiorite of Tombstone Creek*

Kqb / Kqg / Kqk — Quartz monzonite
Kqb, *quartz monzonite of Brush Canyon*
Kqg, *quartz monzonite of Grand Dike*
Kqk, *quartz monzonite of Kennedy Lake*

METAVOLCANIC ROCKS

mv / mvp / mvh — Metarhyolite and associated rocks
mv, *chiefly metarhyolite and metadacite tuff with interbedded volcanic-derived and calcareous metasedimentary rocks*
mvh, *hypersthene-bearing metadacite tuff*
mvp, *metaquartz porphyry*

METASEDIMENTARY ROCKS

q — Metaquartzite
m — Marble
ah — Andalusite hornfels
st — Metasiltstone

QUATERNARY
TERTIARY
CRETACEOUS
TRIASSIC AND (OR) JURASSIC

Contact, showing dip
Dashed where approximately located, queried where uncertain. O, older rock, Y, younger rock

Primitive area boundary

Strike and dip of inclined and vertical beds
Showing direction and plunge of elongated lineated mineral aggregates

Strike and dip of inclined and vertical foliation
Showing direction and plunge of elongated lineated mineral aggregates. Symbol on right: strike of foliation where dip is unknown

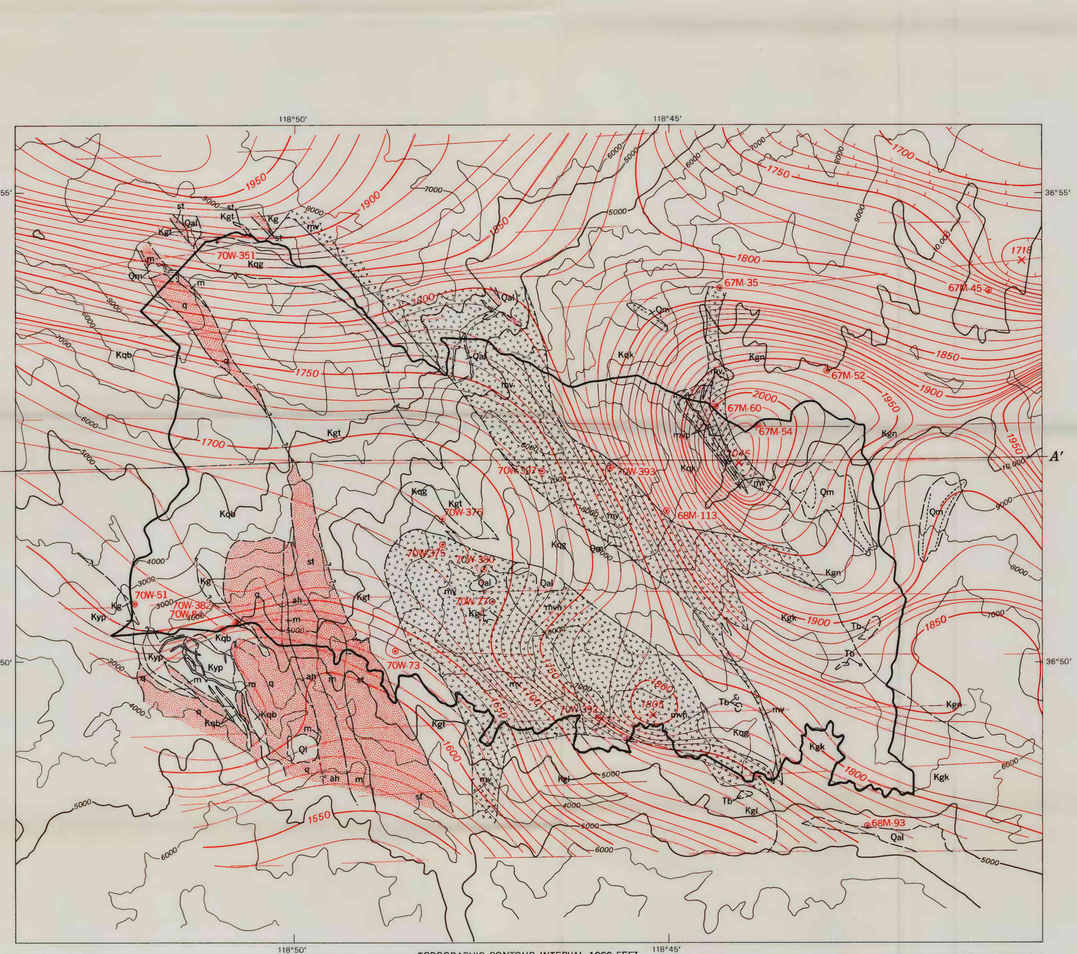
Direction and plunge of small fold axes

MAGNETIC MAP

Flight path
Showing location and spacing

67M-45 — Location and number of selected rock sample for which magnetic properties were determined (table 3)

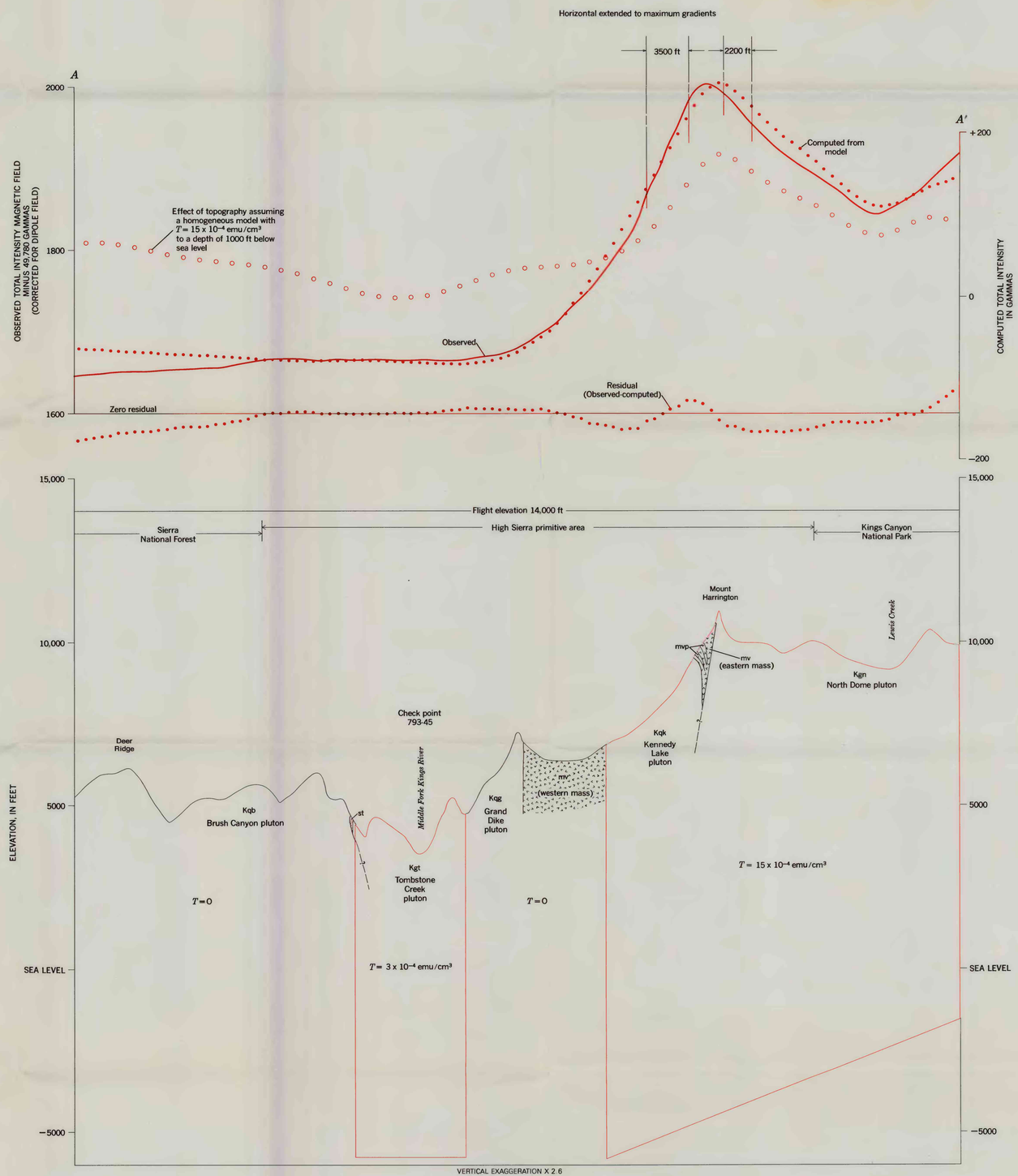
2000 — Magnetic contours
Showing the total intensity magnetic field of the earth minus 49,780 gammas. Hachured to indicate closed areas of lower magnetic intensity. Contour interval is 10 gammas



Base from U.S. Geological Survey
Tehipite Dome and Marion Peak,
1967

TOPOGRAPHIC CONTOUR INTERVAL 1000 FEET

Aeromagnetic survey flown and compiled by the U.S. Geological Survey. Flown at 14,000 feet barometric elevation in west-east direction with approximately 1-mile spacing



GEOLOGIC MAP, AEROMAGNETIC MAP, AND SECTIONS OF THE HIGH SIERRA PRIMITIVE AREA AND VICINITY, CALIFORNIA

SCALE 1:62 500

1 ½ 0 1 2 3 4 5 MILES
1 .5 0 1 2 3 4 5 KILOMETERS

462-393 O - 72 (In pocket)