



Universal Transverse Mercator Projection, Zone 10 North
American Datum 1983
Topographic base from U.S. Geological Survey 1:250,000
scale digital raster graphics, Sasmolle and Alturas
1-degree 2-degree quadrangles (1982).
Shaded-relief base from SRTM Worldwide Elevation Data
at 1 arc-sec resolution (SRTM plus v3), pixel width 30.2 m

APPROXIMATE MEAN
DECLINATION, 2022

SCALE 1:250 000
5 0 5 10 15 20 MILES
5 0 5 10 15 20 KILOMETERS

MAP LOCATION

Geophysical compilation and digital mapping by V.E.
Langenheim, 2022–2023. Geologic compilation and digital
mapping by D.S. Sweetkind, 2022.
Edited by Mitchell Phillips; digital cartographic production
by Kaiti Sullivan
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EXPLANATION FOR MAGNETIC MAP
[Units in nanoteslas (nT); see pamphlet for more information on data acquisition and processing]



Magnetic contour intervals for each dataset—Shallow magnetic field data is 120 nT, intermediate-depth magnetic field data is 100 nT, deep magnetic field data is 30 nT and total magnetic field data is 200 nT; tick marks on magnetic contours point towards magnetic lows.

Border between Alturas and Burney aeromagnetic surveys—Langenheim (2021)

LIST OF MAP UNITS FOR GEOLOGIC MAP

- QUATERNARY AND RECENT VOLCANIC ROCKS
- Qhv Quaternary and Holocene volcanic rocks (Holocene to Quaternary)
 - Qhvg Basalt of Giant Crater of Donnelly-Nolan (2010) (late Pleistocene)
 - Qhvh Hat Creek Basalt (late Pleistocene)
- QUATERNARY SEDIMENT AND CENOZOIC SEDIMENTARY ROCKS
- Qts Quaternary deposits and Tertiary sedimentary rocks (Quaternary to Tertiary)
 - Tmc Montgomery Creek Formation (Eocene)
- CENOZOIC VOLCANIC ROCKS
- Tvu Tertiary volcanic rocks, undivided (Tertiary)
- MESOZOIC SEDIMENTARY ROCKS
- Tu Triassic rocks, undivided (Triassic)

MESOZOIC IGNEOUS ROCKS

- Kgr Cretaceous granitic rocks (Cretaceous)

EXPLANATION OF SYMBOLS FOR GEOLOGIC MAP

- Contact
- Fault with pre-Quaternary offset—Long dashed where approximately located, short dashed where inferred, dotted where concealed
- Fault with documented Quaternary offset
- Volcano boundary
- Caldera topographic rim
- Volcano-tectonic depression, inferred
- Volcanic vent—Where known

Aeromagnetic Map of Northeastern California

By
Victoria E. Langenheim and Donald S. Sweetkind
2023

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