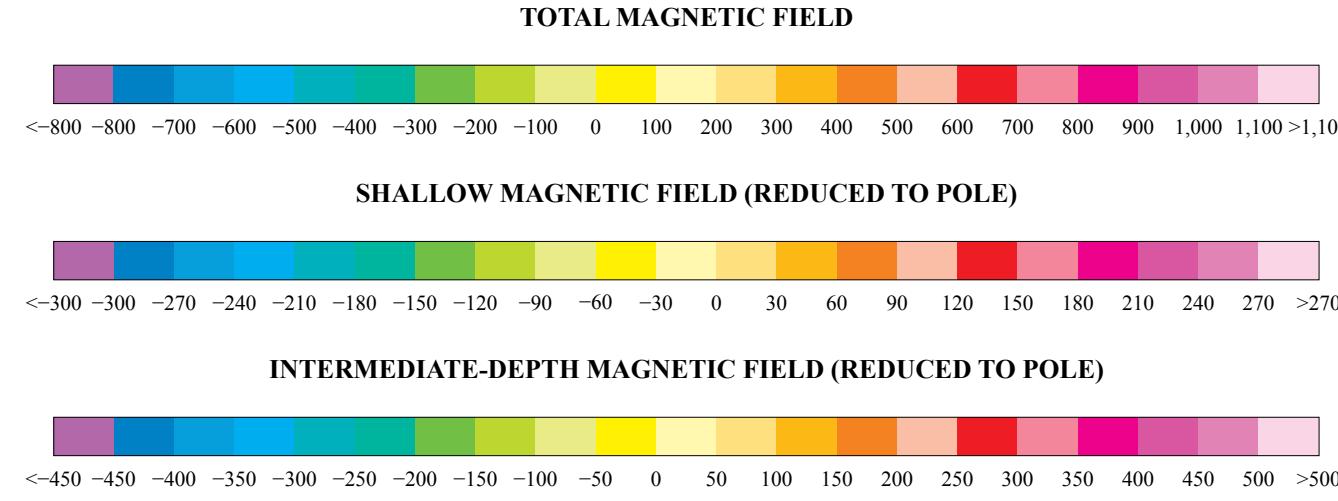


Universal Transverse Mercator Projection, Zone 10 North
American Datum 1983
Topographic base from U.S. Geological Survey 1:250,000
scale digital raster graphic, Summits and Alturas
1-degree resolution, version 1 (2008)
Shaded-relief base from SRTM Worldwide Elevation Data
at 1 arc-second resolution (SRTM plus v3), pixel width 38.2 m

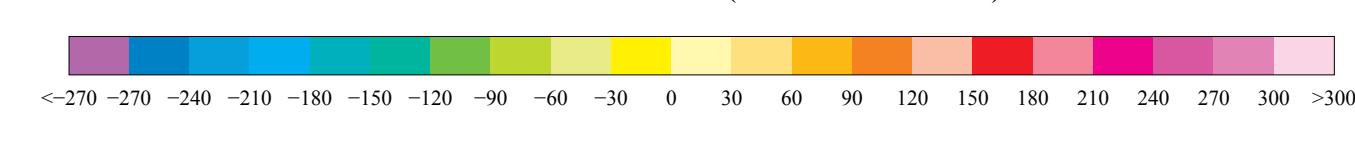
Geophysical compilation and digital mapping by V.E. Langenheim, 2021–2022. Geologic compilation and digital mapping by D.S. Sweetkind, 2022.
Edited by Mitchell Phillips; digital cartographic production by Katie Sullivan
Manuscript approved for publication May 9, 2023

EXPLANATION FOR MAGNETIC MAP

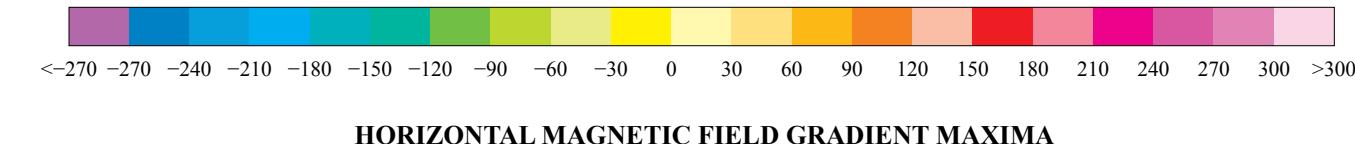
[Units in nanotesla (nT); see pamphlet for more information on data acquisition and processing]



DEEP MAGNETIC FIELD (REDUCED TO POLE)



PREDICTED MAGNETIC FIELD (REDUCED TO POLE)



HORIZONTAL MAGNETIC FIELD GRADIENT MAXIMA

- Horizontal gradient maxima greater than average magnetic gradient
- Horizontal gradient maxima less than average magnetic gradient

MAGNETIC ANOMALIES

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)
- Qhv Basalt of Giant Crater of Donnelly-Nolan (2010) (late Pleistocene)
- Qhv Hat Creek Basalt (late Pleistocene)

QUATERNARY SEDIMENT AND CENOZOIC SEDIMENTARY ROCKS

- Qts Quaternary deposits and Tertiary sedimentary rocks (Quaternary to Tertiary)
- Tmcn 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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Digital files available at <https://doi.org/10.3133/sim3505> and <https://doi.org/10.3133/sim3505>.

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