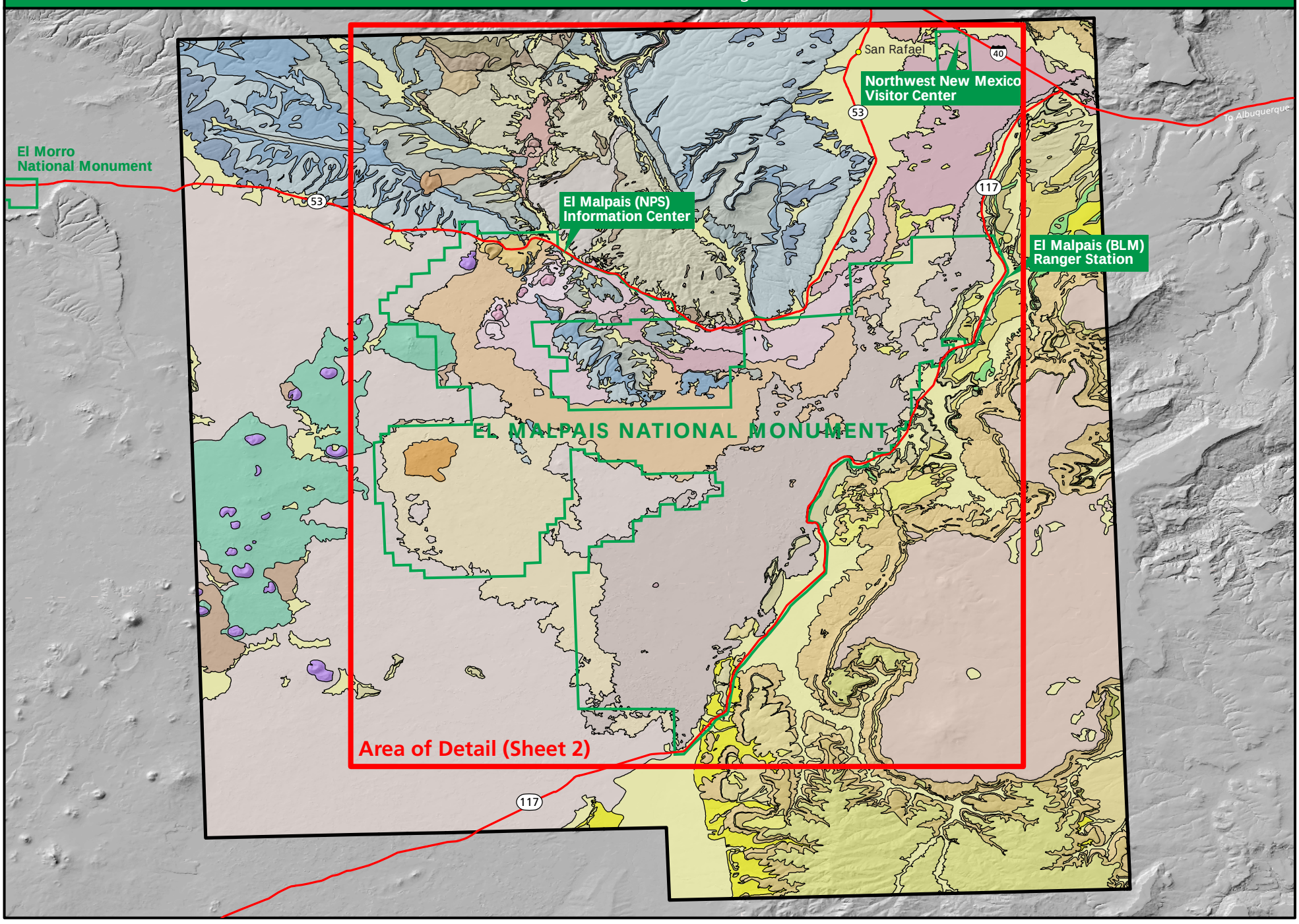
Overview of Digital Geologic Data for El Malpais National Monument

Sheet 1: Full Extent of Digital Data



NPS Boundary

Infrastructure
- structures
- highways

Geologic Point Features
- ice caves

Volcanic Point Features
- lava cone

Volcanic Line Features
- crater, known or certain
- crest line of crater, known or certain
- lava tube, approximate

Faults
- unknown offset/displacement, known or certain
- unknown offset/displacement, approximate
- unknown offset/displacement, concealed
- unknown offset/displacement, queried
- unknown offset/displacement, inferred

Geologic Contacts
- known or certain
- approximate
- concealed
- queried
- map boundary

Geologic Units
- Qe Eolian deposits
- Qal Alluvium
- Ql Landslide deposits
- Qac Alluvium, colluvium, and soil
- Qbm McCartys flow
- Qcm McCartys cinder cone
- Qbb Bandera flows
- Qcb Bandera crater
- Qvb Bandera cinder field
- Qbw Hoya de Cibola flows
- Qvw Hoya de Cibola shield volcano
- Qbp Paxton Springs flows
- Qcp Paxton Springs crater
- Qvp Paxton Springs cinder field
- Qbz Zuni flows
- Qbo Oso Ridge flows
- Qvo Oso Ridge lava cone
- Qbt Twin Crater flows
- Qct Twin Crater cinder cones
- Qvt Twin Crater mixed pyroclastics and flows
- Qbc El Calderon flows
- Qcc El Calderon crater
- Qvc El Calderon cinder field
- Qc Cinder cones
- Qv Volcanic debris
- Qbu Basalt flows
- Qb Old basalt flows
- Tb Basalt flows on Cebollita Mesa, Mesa Negra, and Horace Mesa
- Kcc Crevasse Canyon Formation
- Kg Gallup Sandstone
- Kmd Mancos Shale, D-Cross Tongue
- Kmr Mancos Shale, Rio Salado Tongue
- Kmw Mancos Shale, Whitewater Arroyo Tongue
- Kth Tres Hermanos Sandstone
- Kdt Twowells Tongue of Dakota Sandstone
- Kdp Paguate Tongue of Dakota Sandstone
- Kdo Clay Mesa Tongue of Mancos Shale and Lower Part of Dakota Sandstone
- Jm Morrison Formation
- Jz Zuni Sandstone and Wanakah Formation
- Jt Todilto Limestone Member of Wanakah Formation
- Je Entrada Sandstone
- TRcm Chinle and Moenkopi (?) Formations
- Psa San Andres Limestone
- Pg Glorieta Sandstone
- Py Yeso Formation
- Pa Abo Formation
- PChb Hornblendite, gabbro, and intrusive basalt
- PCpa Porphyritic aplite
- PCap Gneissic aplite
- PCpg Porphyritic granite
- PCag Aplitic granite
- PCgg Gneissic granite
- PCmg Quartz monzonite gneiss
- PCqt Quartzite
- PChg Hornblende gneiss
- PCig Injection gneiss
- PCsc Biotite schist
- sbz Silicified breccia zone
- f Fluorite vein

0 2 4 6 8 Kilometers
0 2 4 6 8 Miles

North

This figure is an overview of compiled digital geologic data. It is not a substitute for site-specific investigations.

Minor inaccuracies may exist regarding the location of geologic features relative to other geologic or geographic features on the figure. Based on the source map scale (1:24,000 and 1:62,500) and U.S. National Map Accuracy Standards, geologic features represented here are within 13 (24k) and 32 (62.5k) meters / 40 (24k) and 104 (62.5k) feet (horizontally) of their true location.

This figure was prepared as part of the NPS Geologic Resources Division's Geologic Resources Inventory. The source maps used in creation of the digital geologic data product were:

Maxwell, Charles H. 1986. Geologic Map of El Malpais Lava Field and Surrounding Area, Cibola County, New Mexico (1:62,500 scale). Miscellaneous Investigations Series Map I-1595. U.S. Geological Survey

Digital geologic data and cross sections for El Malpais National Monument, and all other digital geologic data prepared as part of the Geologic Resources Inventory, are available online at the NPS Integrated Resource Management Applications Portal (IRMA): https://irma.nps.gov/App/Reference/Search. (Enter "GRI" as the search text and select El Malpais National Monument from the unit list.)