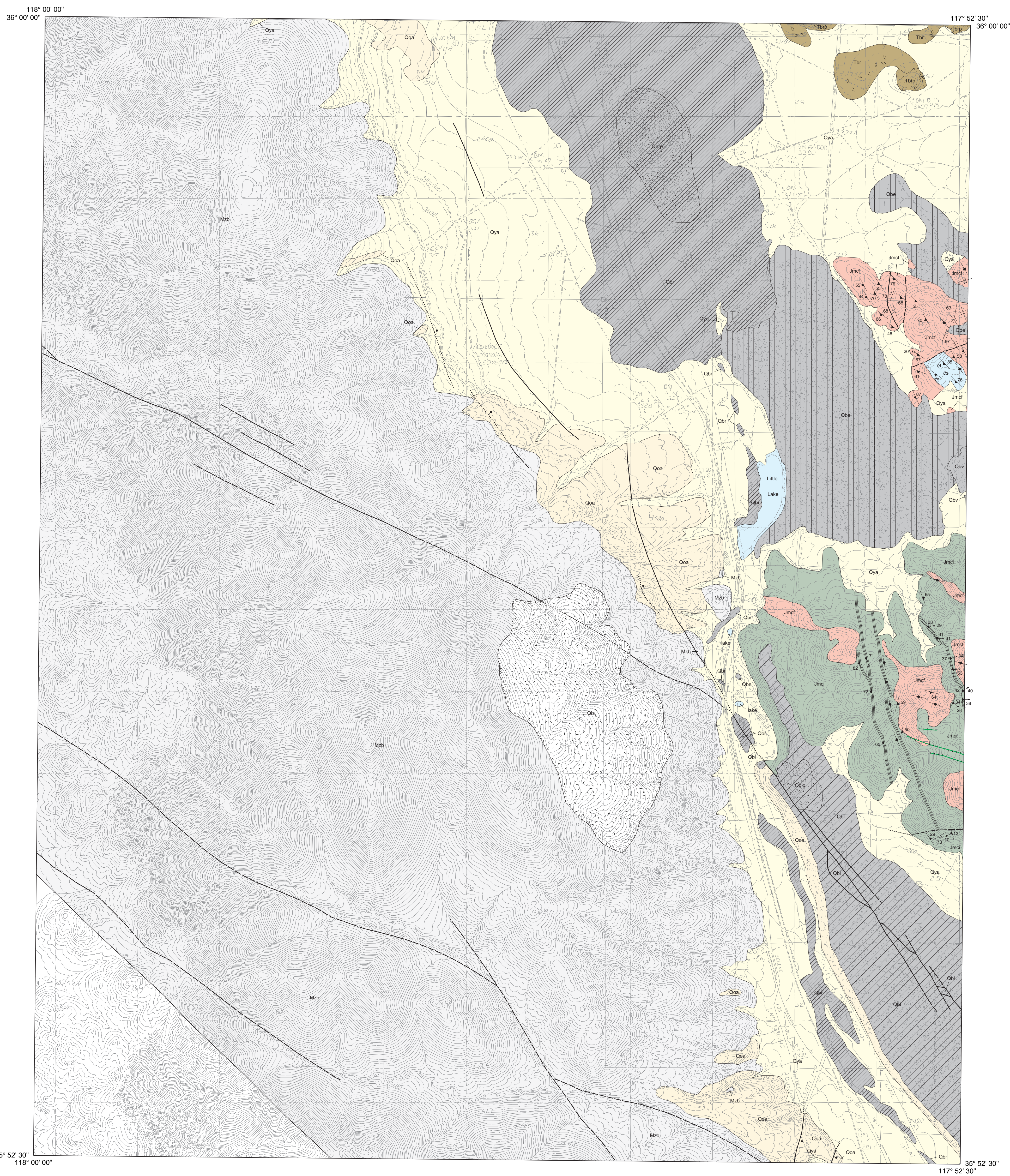


Little Lake Quadrangle



EXPLANATION†

COVER UNITS

- Qys Younger Alluvium*
- Qbv Basalt of Volcanso Peak*
- Qbrp Basalt of Red Hill, pyroclastic*
- Qbr Basalt of Red Hill*
- Qbel Basalt East of Little Lake*
- Qbpl Basalt Southeast of Little Lake, pyroclastic*
- Qbl Basalt Southeast of Little Lake*
- Qoa Older Alluvium*
- Qld Landslide Deposits*
- Tbrp Basalt of Rose Valley, pyroclastic*
- Tbr Basalt of Rose Valley*

MAP SYMBOLS

- Boundary of Quaternary rhythite within cover pyroclastic deposits; tick marks face toward engine center
- Boundary of probable landslide; tick marks localized along base of slide block and face toward structural top
- Approximate structural limit of tectonic breccia; tick marks localized along brecciated side of contact
- Fault contact: solid (known), dashed (approximate), dotted (inferred), queried where conjectural. Ball and bar on down-dropped side of normal fault. Teeth on upper plate of thrust fault.
- Ductile shear (thynlike) zone
- Intrusive or depositional contact: solid (known), dashed (approximate), short dash with query (inferred)
- Fold axis: syncline, anticline, doubly-plunging syncline
- Strike and dip of bedding plane; inclined
- Strike and dip of flow foliation; inclined, vertical
- Strike and dip of fault plane; inclined, w/ down-dip lineation, w/ horizontal lineation, w/ oblique lineation, subhorizontal lineation
- Strike and dip of fracture cleavage; inclined, vertical
- Strike and dip of joint plane; inclined, vertical
- Strike and dip of foliation/compositional layering; inclined, vertical, w/ down-dip lineation, w/ horizontal lineation, w/ oblique lineation
- Locality of sample used for radiometric age determination

BASEMENT UNITS

- JG8—Independence Dike Swarm (red: felsic, green: mafic-to-intermediate) (196±1 to ~119 Ma)
- Jmcl Mixed Complex, intermediate component (Quartz Monzonite) to (Diorite) (151±1 Ma)
- Jmcd Mixed Complex, felsic component (Alkali-feldspar Granite) to (Quartz Monzonite) (164±1 Ma)
- Mzb Basement Rocks*
- ca, etc. Metamorphic Rocks of Uncertain Age (see Chapter One for details)

† Units listed represent only the geologic column for this quadrangle. The geologic column for the entire Coso Range, including description of the radiometric ages cited here, is listed within the text file on this CD. Units highlighted with an asterisk (*) were defined and described by Duffield & Bacon (1981). Map symbols shown represent the complete set of symbols used in this study. Some of those illustrated may not be relevant to the geology of this particular quadrangle.

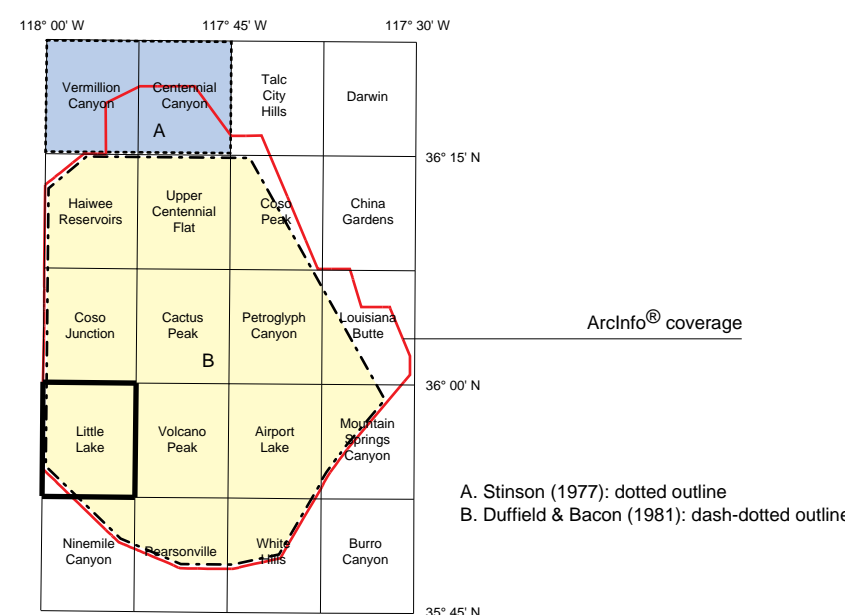
GEOLOGIC MAP OF THE LITTLE LAKE 7.5' QUADRANGLE;
INYO COUNTY, CALIFORNIA

Compilation by Richard S. Whitmarsh
1997

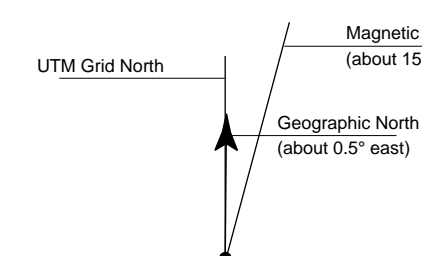
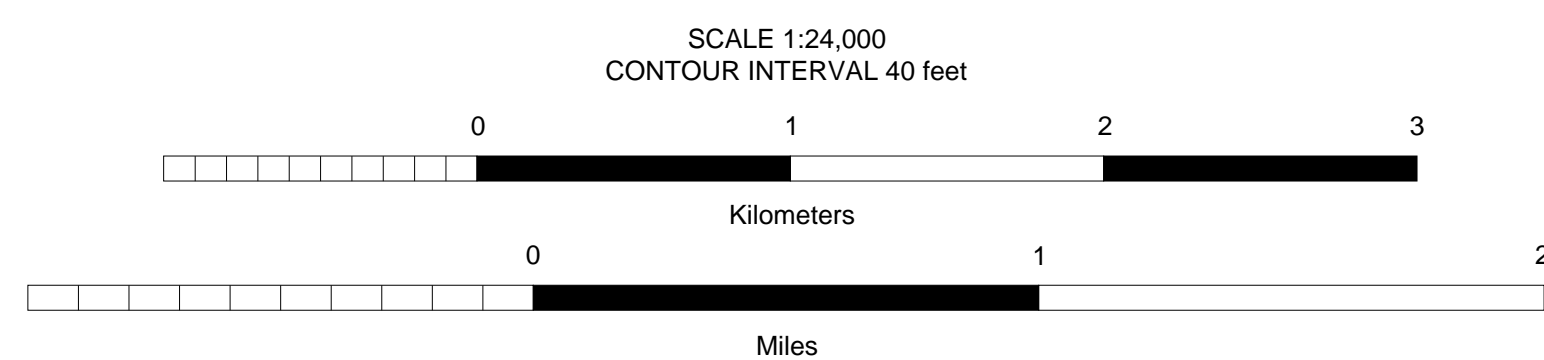
Total map area of Whitmarsh (see reference map) includes some contacts and unit labels established by Sisson (1977) and Duffield & Bacon (1981). Contacts within the Cenozoic cover sequence either copied or adapted from Duffield & Bacon (1981). Structural data and contacts within the pre-Cenozoic basement complex, except within unit Mzb, established by Whitmarsh 1994-1996.

References Cited:

Duffield, W.A. and Bacon, C.R. 1981. Geologic map of the Coso volcanic field and adjacent areas, Inyo County, California. U.S.G.S. Miscellaneous Investigations Series, Map H-1200.
Sisson, M.C. 1977. Geologic map and sections of the Keeler 15-minute quadrangle, Inyo County, California. California Division of Mines and Geology, Map Sheet 38.



Reference map with 7.5 minute quadrangle boundaries. Red line delineates boundary of ArcInfo coverage compiled by Whitmarsh during 1994-1997 at the University of Kansas, Department of Geology, Structural geology and GIS laboratory. Shaded areas (A and B) encompass portions of earlier geological maps containing contacts that have been included in this compilation. Bold black line highlights the locality and boundary of this quadrangle.



Topographic base: LITTLE LAKE 7.5' QUADRANGLE (USGS, PROVISIONAL EDITION 1983)