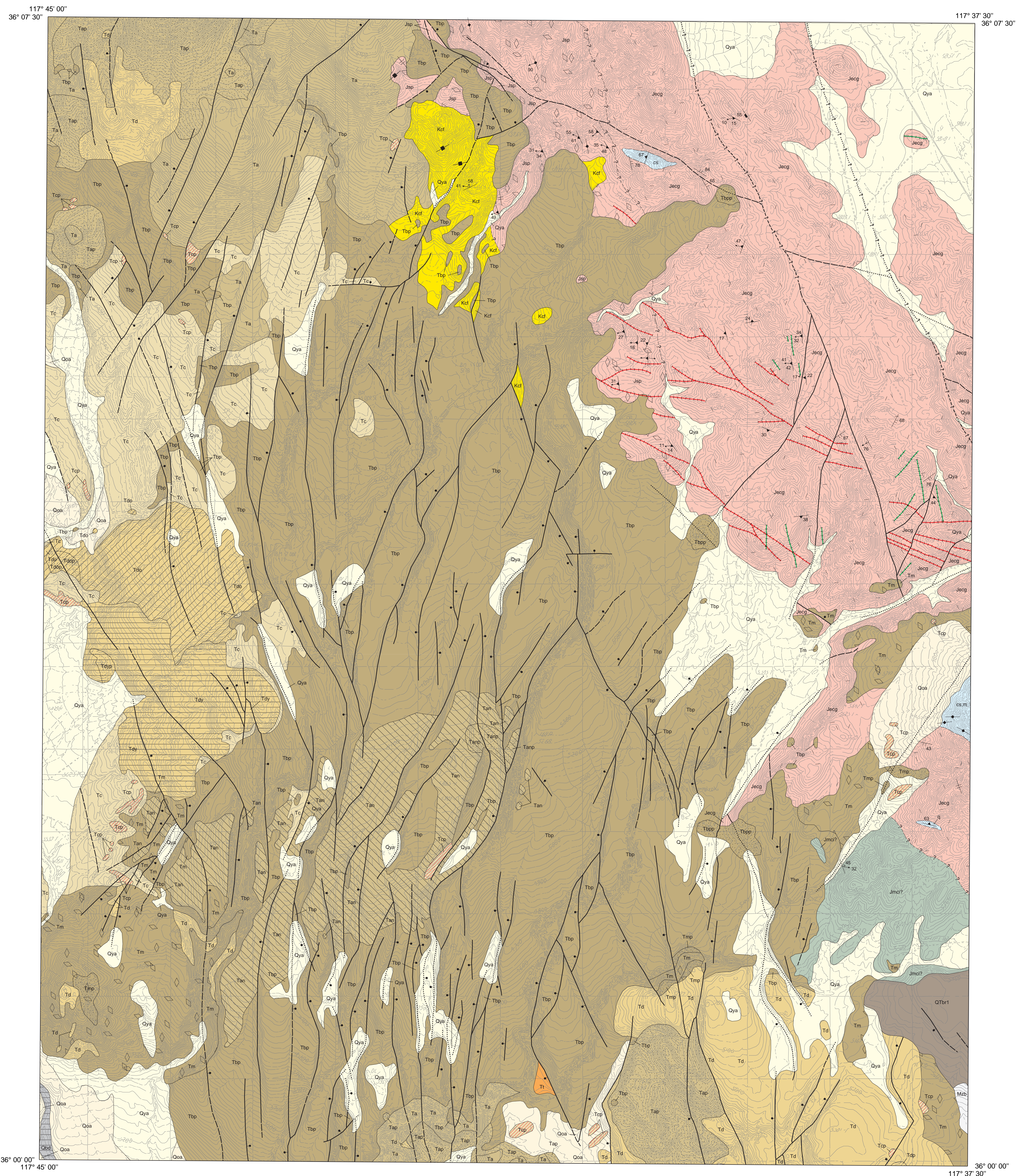


Petroglyph Canyon Quadrangle



EXPLANATION

COVER UNITS

Unit	Description
Qya	Younger Alluvium*
Qbr	Basalt Southeast of Devils Kitchen*
Qoa	Older Alluvium*
QTbr	Basalt of Ranegado Canyon*
Tdp	Andesite Northwest of Petroglyph Canyon, pyroclastic*
Tc	Andesite Northwest of Petroglyph Canyon*
Tsp	Coso Formation, air-fall pumice*
Tt	Coso Formation, langsonite*
Tt	Tuff Southwest of Volcanso Butte*
Tdp	Younger Dacite East of Coso Hot Springs, pyroclastic*
Td	Younger Dacite East of Coso Hot Springs*
Tdp	Older Dacite East of Coso Hot Springs, pyroclastic*
Td	Older Dacite East of Coso Hot Springs*
Tbr	Basalt of Petroglyph Canyon, pyroclastic*
Tbr	Basalt of Petroglyph Canyon*
Tsp	Basalt of Coso Peak, pyroclastic*
Td	Basalt of Coso Peak*
Tmp	Mafic Rocks, pyroclastic*
Tm	Mafic Rocks*
Tsp	Andesite, pyroclastic*
Ta	Andesite*
Tdp	Dacite, pyroclastic*
Td	Dacite*

MAP SYMBOLS

Symbol	Description
Boundary of Quaternary flycatcher within covered pyroclastic deposits; tick marks face toward erupive center	
Boundary of probable landslide; tick marks localized along base of slide block and face toward structural top	
Approximate structural limit of tectonic block; 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 (mylonite) zone	
Intrusive or depositional contact: solid (known), dashed (approximate), short dash with query (inferred)	
Fold axis, syndine, anticline, doubly-plunging syndine	
Strike and dip of bedding planes, inclined	
Strike and dip of flow foliation, inclined, vertical	
Strike and dip of fault planes, 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 planes, 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

Unit	Description
Kcf	Leucogranite of Cactus Flats (Alkali-feldspar Granite) (102±4 Ma)
Jmci	Jmci—Independence Dike Swarm (red: felsic, mafic: vitro-mediate) (106±1 to ~119 Ma)
Jmci	Mixed Complex, intermediate component (Quartz monzonite) to (Diorite) (150±1 Ma)
Jsp	Silver Peak Pluton (Quartz Monzonite) to (Granite) (106±1 Ma)
Jcg	Intrusive Complex of Eastern Coso Range, granitoid rocks (>166 Ma)
Mzb	Basement Rocks*
cs, 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.

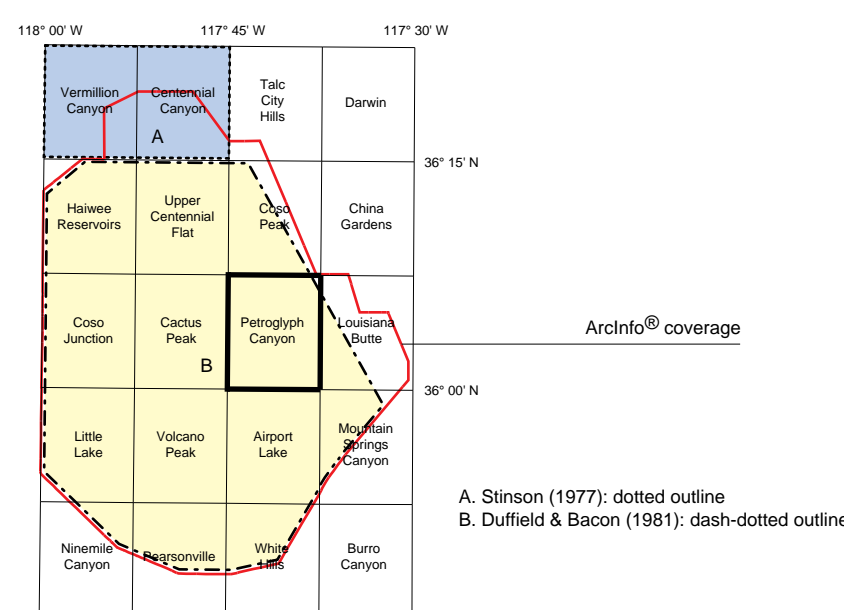
GEOLOGIC MAP OF THE PETROGLYPH CANYON 7.5' QUADRANGLE; INYO COUNTY, CALIFORNIA

Compilation by Richard S. Whitmarsh
1997

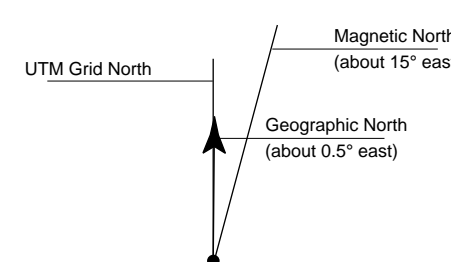
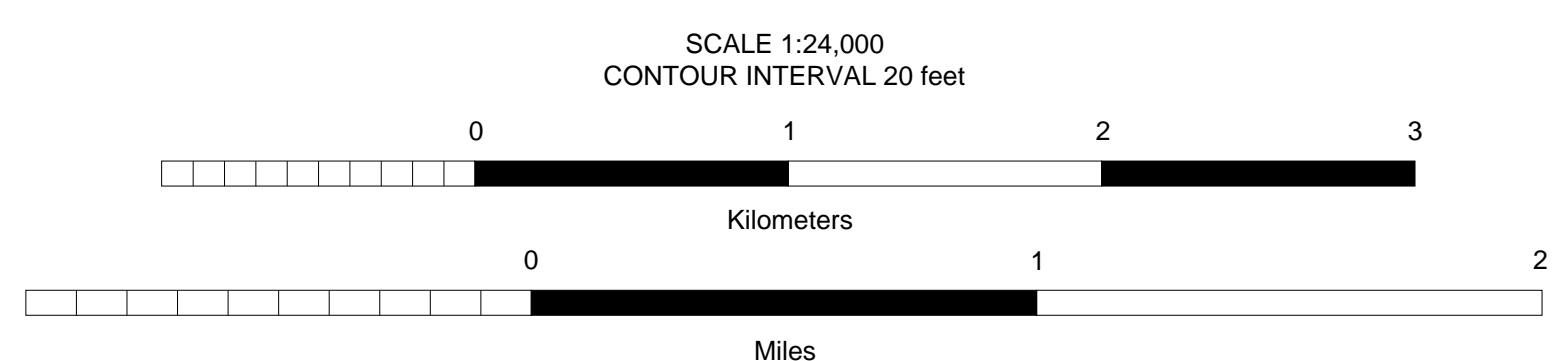
Total map area of Whitmarsh (see reference map) includes some contacts and unit labels established by Stinson (1977) and Duffield & Bacon (1981). C contacts within the Cenozoic cover sequence either copied or adapted from Duffield & Bacon (1981). Structural data and contacts within the pre-Cenozoic basement 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 I-1200.
Stinson, M.C. 1977. Geologic map and sections of the Kaiser 15-minute quadrangle, Inyo County, California. California Division of Mines and Geology, Map Sheet 36.



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: PETROGLYPH CANYON 7.5' QUADRANGLE (USGS, PROVISIONAL EDITION 1982)