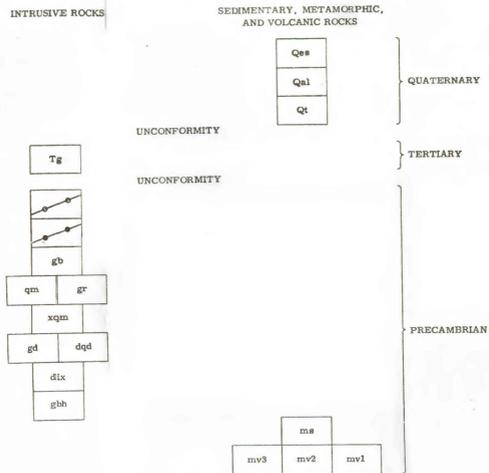


EXPLANATION

CORRELATION OF MAP UNITS



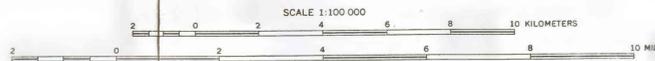
DESCRIPTION OF MAP UNITS

- GABBROIC DIKES - Reversely magnetized
- LEUCOCRATIC DIKES AND PEGMATITE
- MAFIC DIKES AND SILLS - Mostly gabbro, diabase, and basalt; some closely spaced dikes represent dike swarms
- GABBRO
- QUARTZ MONZONITE AND GRANITE - Southern part of large batholith and separate intrusive bodies
- GRANITE - Only isolated intrusive bodies shown, but also occurs in small areas in the quartz monzonite; may be a phase of quartz monzonite
- MIXED PLUTONIC AND LAYERED ROCKS - Mostly intrusive quartz monzonite and granite mixed with metavolcanic and metasedimentary rocks. Contains inclusions of mafic rocks, now mostly amphibolite
- GRANODIORITE
- DIORITE AND QUARTZ DIORITE
- DIORITE COMPLEX - Includes diorite, quartz diorite, granodiorite, gabbro, quartz monzonite, granite, apfite, and subordinate metavolcanic and metasedimentary rocks
- BIOTITE-HORNBLLENDE GNEISS
- EOLIAN SAND
- ALLUVIAL DEPOSITS - Mostly sand, gravel, and boulders in wadis; some wind-blown sand in western part
- TERRACE DEPOSITS - Silty
- METASEDIMENTARY ROCKS - Mostly quartzose conglomerate and felsic quartzite
- METAVOLCANIC ROCKS - Mostly intermediate metavolcanic flow rocks, agglomerate, tuff and interbedded marble (m)
- Mostly intermediate metavolcanic flow rocks, tuff, and agglomerate
- Mostly basaltic and intermediate metavolcanic flow rocks interbedded with minor metasedimentary rocks. Mafic metavolcanic rocks are mostly quartz-mica schist that contain garnet and staurolite locally. There is a thin marble bed (m) in north-central part

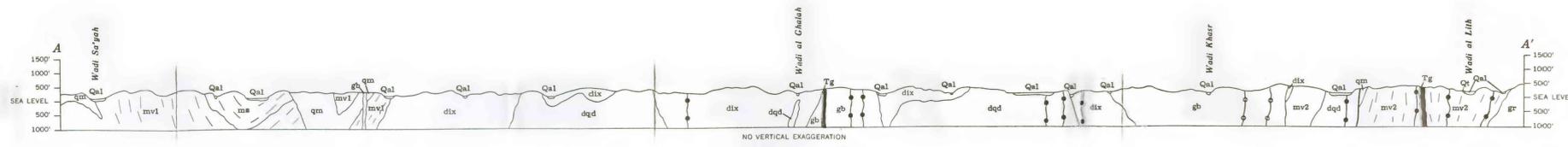
- CONTACT - Approximately located or inferred
- FAULT - Dotted where concealed
- ANTIFORM - Showing approximate location of crestline and direction of plunge
- SYNFORM - Showing approximate location of troughline and direction of plunge
- STRIKE AND DIP OF BEDS - Top of beds not implied
- Inclined
- Vertical
- STRIKE AND DIP OF FOLIATION
- Inclined
- Vertical
- BEARING AND PLUNGE OF LINEATION
- TREND LINES
- ANCIENT MINE OR PROSPECT
- WARM SPRING



Aerial photography 1950-51 and controlled mosaic 1958



Geology mapped in 1973



RECONNAISSANCE GEOLOGY OF THE WADI SA'DIYAH QUADRANGLE, SHEET 20/40A, KINGDOM OF SAUDI ARABIA

By  
Kenneth L. Wier and Donald G. Hadley

1975

