

- EXPLANATION**
- x 985 ELEVATION IN METERS
 - . /90 RASS SAMPLE LOCALITY—Last 3 digits only; prefaced by 202 (e.g., 202190)
 - /92' (G/3) SAMPLE LOCALITY—With rock symbol in parentheses; designated only for localities with thin sections
 - APPROXIMATE AREA OF VILLAGE
 - PAVED HIGHWAY
 - GRADED ROAD
 - MAJOR DIRT TRACK
 - POWER LINE
 - MAJOR WADI CHANNEL

Rock symbols from Rock Analysis Storage System (RASS)—first two letters are rock code, followed by rock modifiers (e.g., GR3-)

Rock Codes:

| | |
|----------------------------|------------------------|
| AF alkali-feldspar granite | MR monzodiorite* |
| AN andesite | MZ monzogranite* |
| BA basalt | PR peridotite (nodule) |
| DC dacite | PY pyroxenite |
| DR diorite | RD rhyodacite |
| GA peralkaline granite | RY rhyolite |
| GB gabbro | SE serpentinite |
| GD granodiorite | SG syenogranite* |
| GH granophyre | SS sandstone |
| GR granite | SY syenite |
| MB marble | TF tuff |
| MN monzogranite | TO tonalite |
| CN conglomerate | TY trachyte |
| | TZ welded tuff |

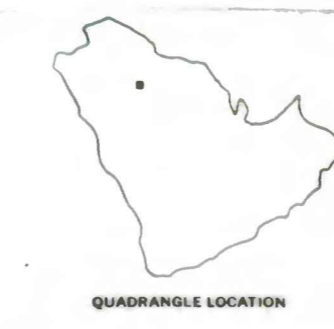
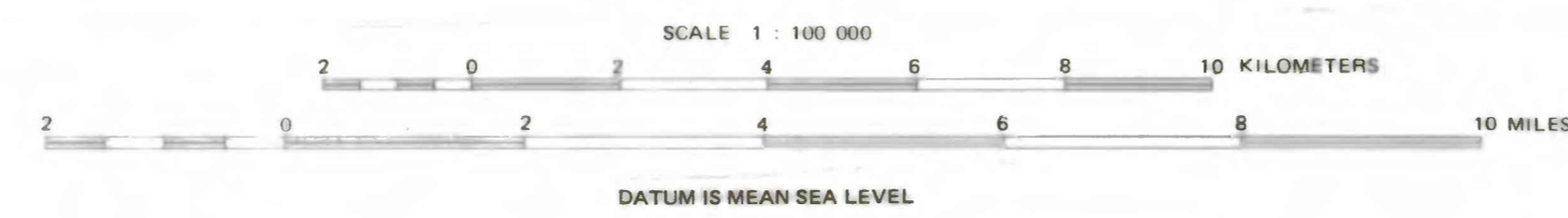
Rock modifiers (igneous rocks only):

| | |
|-----------------|----------------|
| code | code |
| ! peralkaline | 6 pyroxene |
| + metamorphosed | 7 amphibole |
| - gneissic | 8 muscovite |
| 0 gossanized | 9 dike* |
| 1 porphyry | B breccia* |
| 2 quartz | E miarolytic* |
| 3 biotite | G granophyric* |
| 4 not used | H iron-oxide* |
| 5 olivine | |

*not listed on RASS

Aerial photography 1956 and controlled mosaic 1959
 Aero Service Corporation, Philadelphia, Penn., U.S.A.

This report has not been edited or reviewed for conformity
 with U.S. Geological Survey standards and nomenclature.



Geology mapped in April
 and May 1983

**MAP OF THE RAK QUADRANGLE, SHEET 27/42 C, KINGDOM OF SAUDI ARABIA,
 SHOWING SAMPLE LOCATIONS AND NUMBERS, AND GEOGRAPHIC AND CULTURAL FEATURES**
 by
Karl S. Kellogg
 1984