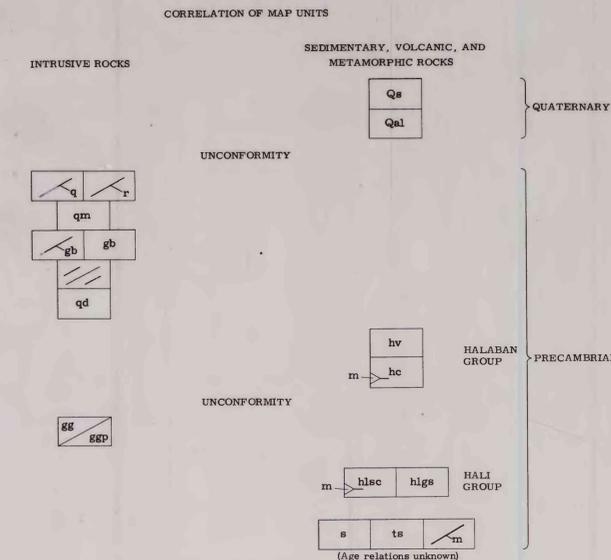


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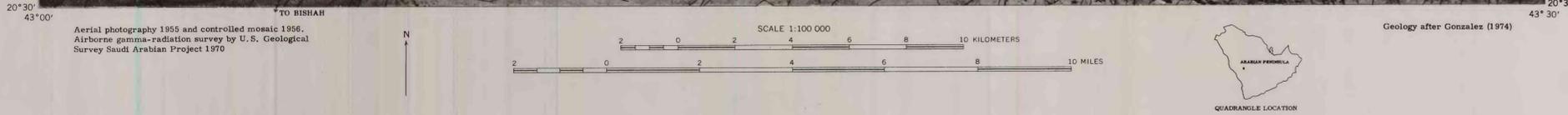
EXPLANATION



- DESCRIPTION OF MAP UNITS
- | | |
|---|--|
| QUARTZ VEIN | EOLIAN SAND |
| RHYOLITE DIKE | SAND AND GRAVEL - In wadis and basins |
| QUARTZ MONZONITE | HALABAN GROUP
Upper volcanic unit: includes andesitic tuff, andesite, and greenstone |
| GABBRO OR DIABASE DIKE | Lower clastic unit: includes graywacke, shale, siltstone, tuff, volcanic flow rocks, and marble (m) |
| GABBRO | HALI GROUP
Includes quartz schist, quartzite, and mica-feldspar-quartz gneiss; marble (m) |
| DIORITE, ANDESITE, AND DACITE DIKES | Metavolcanic rocks: includes amphibolite, greenstone, and schist derived from volcanic clastic rocks |
| HORNBLENDE QUARTZ DIORITE | ROCKS ASSOCIATED WITH THE NABITAH FAULT ZONE AND THE ISHMAS EAST AND WEST FAULTS |
| GRANODIORITE GNEISS - Includes quartz monzonite gneiss, quartz diorite gneiss, and porphyritic granodiorite (ggp) | Serpentinite |
| | Talc-actinolite schist |
| | Marble or dolomite |

- CONTACT - Dashed where concealed or inferred
- FAULT - Showing relative horizontal movement. Dashed where approximately located or inferred; dotted where concealed. U, upthrown side; D, downthrown side
- STRIKE AND DIP OF FOLIATION
- BEARING AND PLUNGE OF LINEATION
- ANCIENT MINE OR PROSPECT

GAMMA-RADIATION CONTOURS - Showing total-count gamma radiation in counts per minute x 100. Contour interval 1000 counts per minute. Hatched to indicate closed areas of lower radiation intensity. Flight lines were east-west with 1 km spacing; mean terrain clearance 91 m



TOTAL-COUNT GAMMA RADIATION AND GEOLOGY OF THE JABAL ISHMAS QUADRANGLE, KINGDOM OF SAUDI ARABIA

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