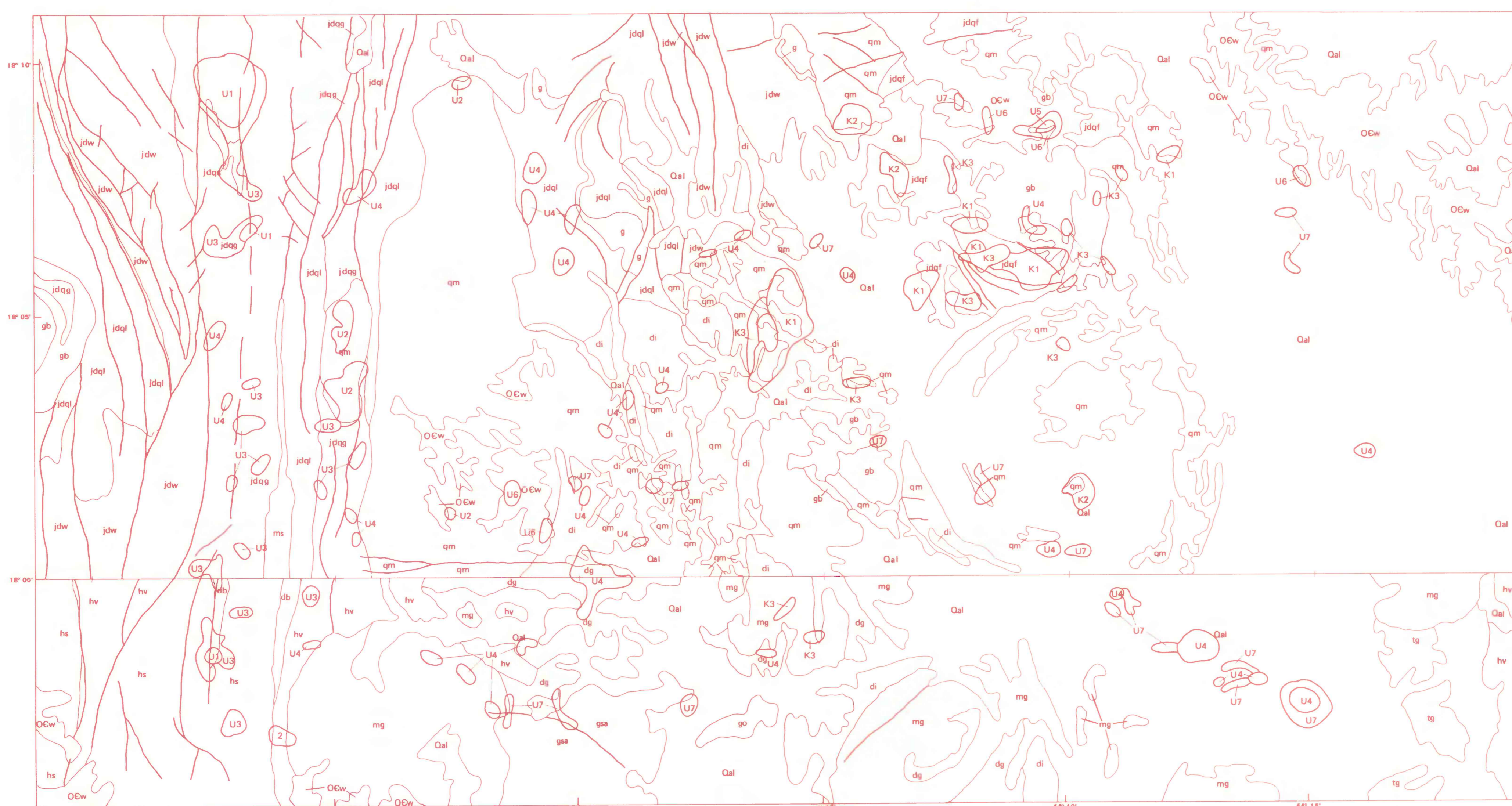


MAP A--Map showing the radiometric map units defined as a result of the classification of the element composite-color map.

EXPLANATION

RADIOMETRIC MAP UNIT

These units were defined by a computer-classification algorithm based upon the statistics of training areas. Each area has K, eU, and eTh concentrations that are relatively unique. The numbering is arbitrary.

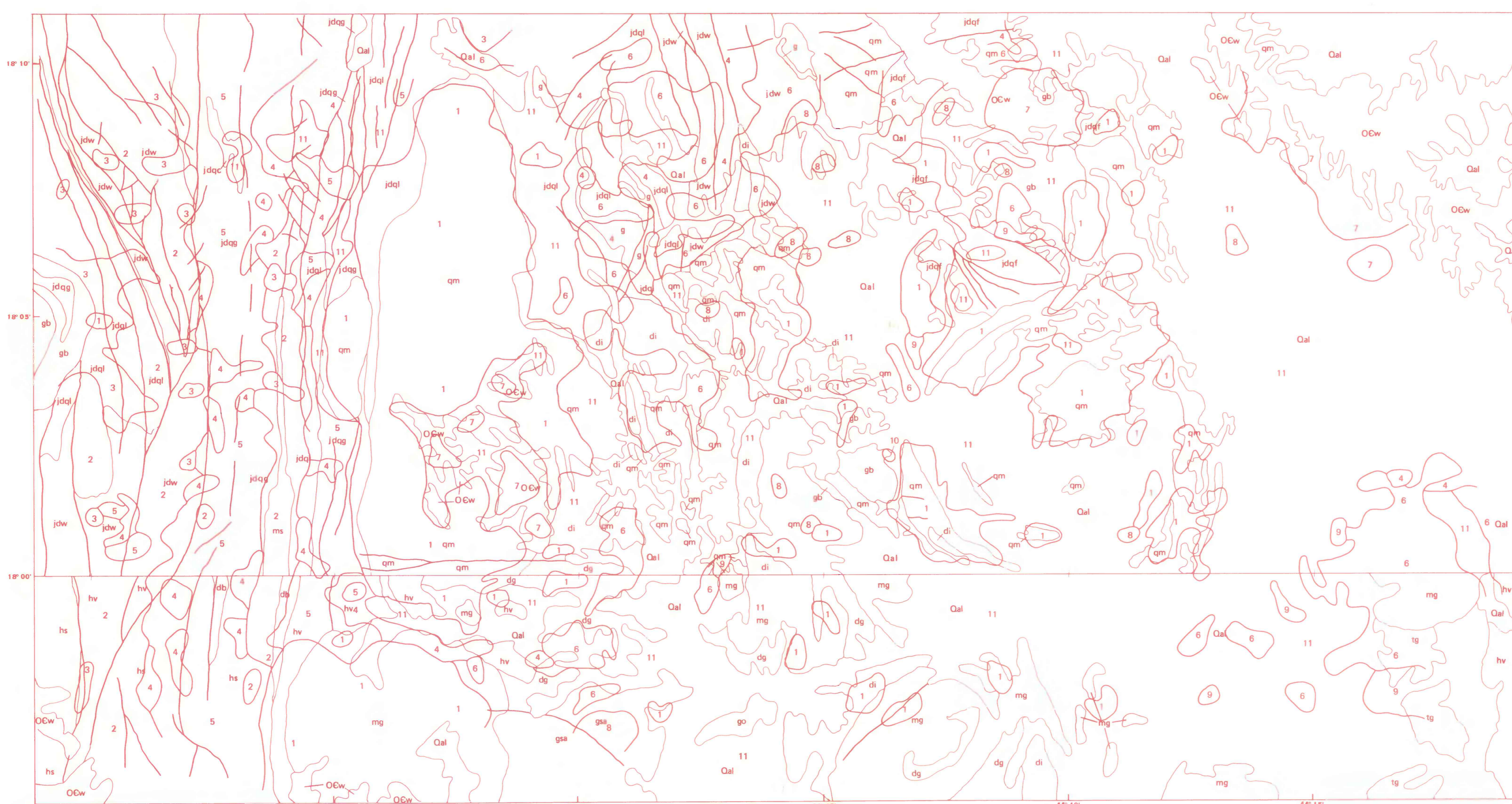


MAP B--Map showing areas identified as having possibly anomalous concentrations of uranium ranked from highest (1) to lowest (7), and areas identified as having possibly anomalous concentrations of potassium ranked from highest (1) to lowest (3).

URANIUM ANOMALY

POTASSIUM ANOMALY

These anomalies are the result of a classification using a computer algorithm to define statistics of selected training areas. Uranium anomalies signify relatively high values of eU, eU/K, and eU/eTh and potassium anomalies have relatively high values of K, K/eU, K/eTh. The significance of the anomalies decreases as the anomaly number increases.



MAP C--Map showing radiolithic units resulting from interpreting the correlations between the radiometric units of Map A and the geologic units of the geologic map.

RADIOLITHIC MAP UNIT

These map units result from interpretation of Map A and reflect the presence of materials at the surface with different radiometric characteristics.

DESCRIPTION OF GEOLOGIC MAP UNITS

[Map units north of 18° latitude after Greenwood (1980a and 1980b)]

SEDIMENTARY, VOLCANIC, AND METAMORPHIC ROCKS

- Qal ALLUVIUM
- OCw WAJID SANDSTONE
- JDDAH GROUP
- Qatan Formation
- jdqg Graphitic sandstone
- jdql Tuffaceous pebble sandstone
- jdaf Biotite gneiss
- jdvw Wasat Formation, basalt and andesite
- g Gossan

INTRUSIVE ROCKS

- qm QUARTZ MONZONITE
- gb GABBRO
- di DIORITE
- ms DIABASE SILLS

[Map units south of 18° latitude after Sable (1983)]

SEDIMENTARY, VOLCANIC, AND METAMORPHIC ROCKS

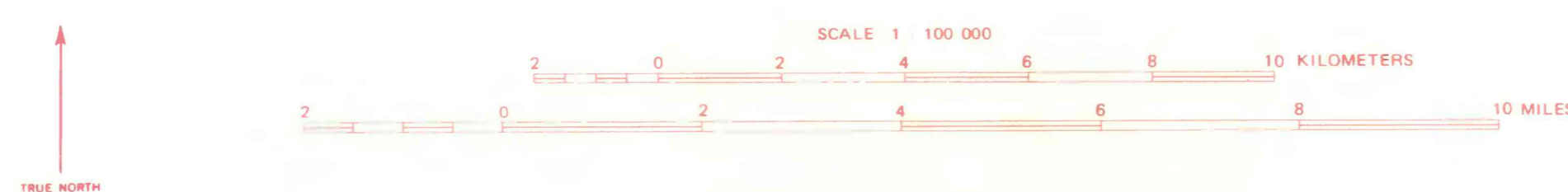
- Qal ALLUVIUM
- OCw WAJID SANDSTONE
- HALABAN GROUP
- hs Metasedimentary rocks
- hv Metavolcanic rocks

INTRUSIVE ROCKS

- gsa SODIC AMPHIBOLE GRANITE
- mg MONZONIC GRANITE
- db HORNBLENDE DIORITE
- AND GABBRO
- gs OLIVINE GABBRO
- di BIOTITE-HORNBLENDE
- DIORITE AND GABBRO
- tg RASHIBA GNEISS COMPLEX

- CONTACT
- FAULT

NOTE: In order to enhance the usability of these maps, it is suggested that the user color out the units of interest.



INTERPRETATION OF DETAILED AERIAL GAMMA-RAY SURVEY, JABAL ASHIRAH AREA, KINGDOM OF SAUDI ARABIA

by
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 1987