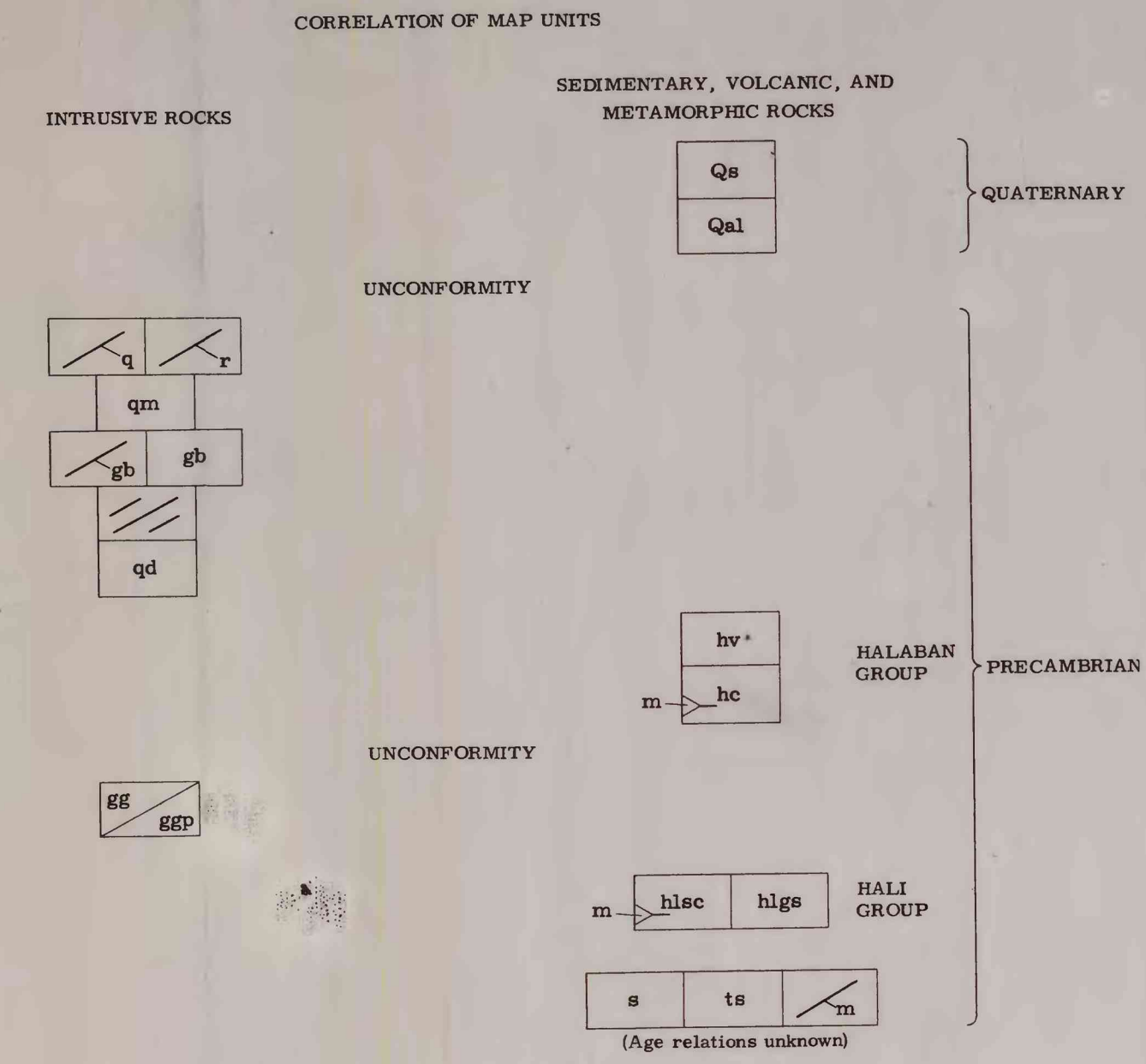


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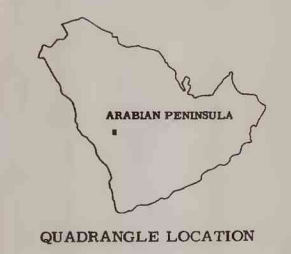
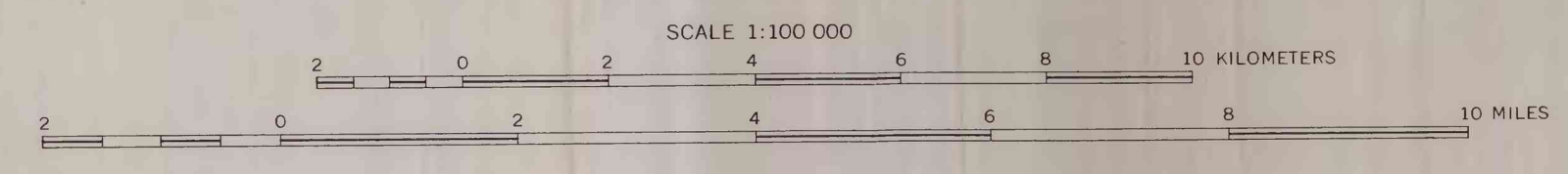
EXPLANATION



- |  |                                                                                                                   |  |                                                                                                      |
|--|-------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------|
|  | QUARTZ VEIN                                                                                                       |  | EOLIAN SAND                                                                                          |
|  | RHYOLITE DIKE                                                                                                     |  | SAND AND GRAVEL - In wadis and basins                                                                |
|  | QUARTZ MONZONITE                                                                                                  |  | HALABAN GROUP                                                                                        |
|  | GABBRO OR DIABASE DIKE                                                                                            |  | Upper volcanic unit: includes andesitic tuff, andesite, and greenstone                               |
|  | GABBRO                                                                                                            |  | Lower clastic unit: includes graywacke, shale, siltstone, tuff, volcanic flow rocks, and marble (m)  |
|  | DIORITE, ANDESITE, AND DACITE DIKES                                                                               |  | HALI GROUP                                                                                           |
|  | HORNBLende QUARTZ DIORITE                                                                                         |  | Includes quartz schist, quartzite, and mica-feldspar-quartz gneiss; marble (m)                       |
|  | GRANODIORITE GNEISS - Includes quartz monzonite gneiss, quartz diorite gneiss, and porphyritic granodiorite (EGP) |  | Metavolcanic rocks: includes amphibolite, greenstone, and schist derived from volcanic clastic rocks |
|  |                                                                                                                   |  | ROCKS ASSOCIATED WITH THE NABATAH FAULT ZONE AND THE ISHMAS EAST AND WEST FAULTS                     |
|  |                                                                                                                   |  | Serpentine                                                                                           |
|  |                                                                                                                   |  | 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
- Inclined
- Vertical
- BEARING AND PLUNGE OF LINEATION
- ANCIENT MINE OR PROSPECT
- MAGNETIC CONTOURS - Showing total-intensity magnetic field of the earth in gammas relative to arbitrary datum. Hatched to indicate closed areas of lower magnetic intensity; dashed where data are incomplete. Contour interval 20 gammas
- FLIGHT PATH - Showing location and spacing of data

Aerial photography 1955 and controlled mosaic 1956. Aeromagnetic survey by a consortium of Aero Service Corp., Hunting Geology and Geophysics, Ltd., Lockwood Survey Corp., Ltd., and Arabian Geophysical and Surveying Co., 1965-1967



GEOLOGY OF THE JABAL ISHMAS QUADRANGLE, KINGDOM OF SAUDI ARABIA

By  
Louis Gonzalez  
1974