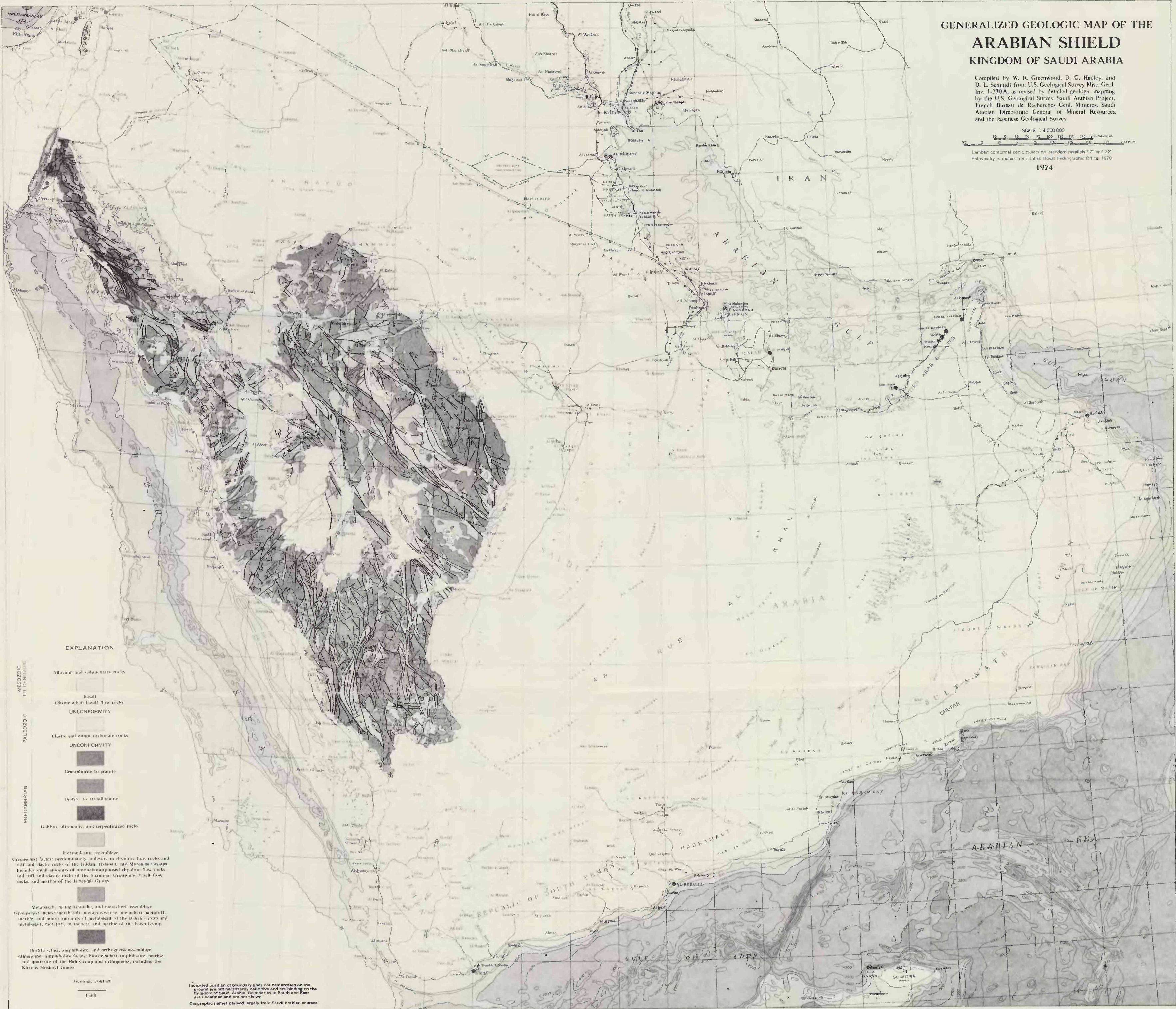


GENERALIZED GEOLOGIC MAP OF THE
ARABIAN SHIELD
KINGDOM OF SAUDI ARABIA

Compiled by W. R. Greenwood, D. G. Hadley, and
D. L. Schmidt from U.S. Geological Survey Misc. Geol.
Inv. 1-270A, as revised by detailed geologic mapping
by the U.S. Geological Survey, Saudi Arabian Project,
French Bureau de Recherches Geol. Minieres, Saudi
Arabian Directorate General of Mineral Resources,
and the Japanese Geological Survey

SCALE 1:4 000 000
Lambert conformal conic projection, standard parallels 17° and 33°
Bathymetry in meters from British Royal Hydrographic Office, 1970
1974



EXPLANATION

- MESOZOIC TO CENOZOIC
 - Alluvium and sedimentary rocks
 - Basalt
 - Olivine alkali basalt flow rocks
- PALEOZOIC
 - Clastic and minor carbonate rocks
- PRECAMBRIAN
 - Granodiorite to granite
 - Diorite to trondhjemite
 - Gabbro, ultramafic, and serpentinized rocks
 - Metasedimentary assemblage
Greenschist facies, predominantly andesite to tholeiitic flow rocks and tuff and clastic rocks of the Jubbah, Habshan, and Murdama Groups. Includes small amounts of nonmetamorphosed tholeiitic flow rocks and tuff and clastic rocks of the Shammar Group and basalt flow rocks, and marble of the Jubayyah Group.
 - Metabasalt, metagabbro, and metachert assemblage
Greenschist facies: metabasalt, metagabbro, metachert, metatuff, marble, and minor amounts of metabasalt of the Bahah Group and metabasalt, metatuff, metachert, and marble of the Bahah Group.
 - Biotite schist, amphibolite, and orthogneiss assemblage
Aluminous amphibolite facies: biotite schist, amphibolite, marble, and quartzite of the Bah Group and orthogneiss, including the Khams Mushayt Gneiss.

Indicated position of boundary lines not demarcated on the ground are not necessarily definitive and not binding on the Kingdom of Saudi Arabia. Boundaries in South and East are undefined and are not shown.
Geographic names derived largely from Saudi Arabian sources