UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
GOVERNMENT OF JORDAN
AND THE
GEOLOGICAL SURVEY OF THE FEDERAL REPUBLIC OF GERMANY

PROFESSIONAL PAPER 560-I
PLATE I

GEOLOGIC MAP OF JORDAN

By
Friedrich Bender

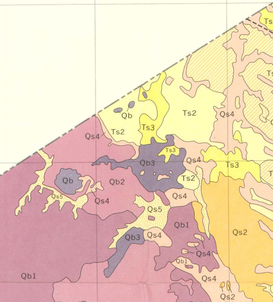
SCALE 1:500 000

10 0 10 20 30 40 50 60 70 80 90 KILOMETRES

10 0 10 20 30 40 50 MILES

Lambert Conformal conic projection standard parallels 17° and 33°

INTERNATIONAL BOUNDARIES AS ILLUSTRATED HEREIN ARE NEITHER FINAL NOR BINDING ON THE JORDAN GOVERNMENT



SOURCES OF GEOLOGIC COMPILATION

1. F. Bender
2. G. van den Boom
3. R. Busse
4. A. Futian
5. J. Grieger
6. M. Haddadin
7. W. Heinbach
8. H. Ibrahim
9. K. Jeresat
10. K. Khdeir
11. M. Lahloub
12. R. Lenz
13. W. Lillich
14. M. Ruef
15. B. Sunna
16. G. Wiesemann

OTHER SOURCES

17. L. Picard, 1959
S. Levant Series Survey of Palestine topographic map 1:100,000, 1944, Army Map Service topographic maps

NEW INTERNATIONAL BORDER 1966

EXPLANATION

	Qs5	Terrestrial, fluviatile, and lacustrine unconsolidated sediments	
	Qs4	Pelitic sediments in mud flats	
	Qs3	Marl, shale, gypsum, oolitic limestone, and clastic intercalations (Lisan Formation)	
Pleistocene	Qs2	Fluviatile gravel, lacustrine limestone, sandy limestone, marl, and gypsum	
	Qs1	Marl, sandstone, conglomerate, and travertine	
	Qb	Basalt and basalt-tuff, undifferentiated	
Neogene and Pleistocene	Qb3 Qb2 Qb1	Different basalt flows in northeast Jordan	
Oligocene and Miocene	Ts3	Sandstone, conglomerate, marl, calcareous sandstone, glauconitic limestone, and evaporite	
Paleocene and Eocene	Ts2	Limestone with chert concretions, locally nummulitic limestone	
	Ts1	Limestone with chert layers, locally nummulitic limestone	
Upper Cretaceous-Paleocene (?)	TK	Limestone, marl, shale, dolomite, and chert	
Senonian (?)-Cenomanian-Maastrichtian-sandstone facies	Ks3	Chalk, marl, bituminous limestone, phosphorite, silicified limestone, and chert	
Cenomanian-Turonian-Senonian	Ks2	Limestone, sandy limestone, dolomite, nodular limestone, shale, and gypsum	
Lower Cretaceous-Senonian	Ks1	Varicolored argillaceous sandstone, white sandstone, silicified sandstone, and brown, coarse-grained sandstone	
Lower Cretaceous	Ks	Sandy limestone and dolomite marl, shale, varicolored sandstone, and white sandstone	
Middle Jurassic	J	Limestone, marl, shale, sandy limestone, and sandstone	
Lower and Middle Triassic	Ŧk	Limestone, sandy limestone, sandstone, shale , and locally gypsum	
	Ss2	Sandstone with worm burrows (marine deposits) and red-brown argillaceous sandstone (continental deposits)	
Lower Silurian	Ss1	Sandstone. Marine deposits (Nautiloidea sandstone)	
Upper Ordovician (Caradocian-Ashgillian) to Silurian	SO	Fine-grained sandstone and sandy shale. Marine deposits (*Comularia* sandstone)	
Middle Ordovician (Llandeilian) to (Llandovery)	Os4	Medium and fine-grained sandstone, sandy shale. Marine deposits (*Sabellarifex* sandstone)	
Middle Ordovician (Llandeilian) to (Caradocian)	Os3	Fine-grained sandstone, sandy shale. Marine deposits (Graptolite sandstone)	
Lower Ordovician (Arenigian)	Os2	Bedded brownish-weathered sandstone. Continental deposits	
	Os1	Massive whitish-weathered sandstone. Alternating marine and continental deposits	
	Cs	Massive brownish-weathered sandstone, bedded arkosic sandstone, and basal conglomerate. Continental deposits; in the northwest intercalated marine dolomite, limestone, and shale	
Upper "Proterozoic"	pCCg	Quartz porphyry and porphyrite	
	pCs	Slate-Graywacke Series and Saramuj Conglomerates	
"Proterozoic"	pCg	Alaskite, aplite granite, muscovite-biotite granite, granodiorite, quartz diorite, diorite, hornblende gabbro, hornblendite, gneiss , mica schist, and dike rocks	

QUATERNARY — CENOZOIC
TERTIARY — CENOZOIC
CRETACEOUS — MESOZOIC
JURASSIC — MESOZOIC
TRIASSIC — MESOZOIC
SILURIAN — PALEOZOIC
ORDOVICIAN — PALEOZOIC
CAMBRIAN — PALEOZOIC
PRECAMBRIAN

Contact

Fault
Solid where observed; dashed where inferred

Flexure

Anticlinal axis, plunge given where observed
Solid where observed; dashed where inferred

Synclinal axis
Solid where observed; dashed where inferred

Modified from Bender (1968a) with kind permission of the publisher, Gebrüder Borntraeger, Berlin

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1975