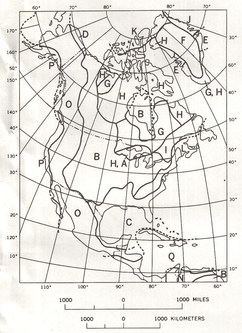
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

MISCELLANEOUS GEOLOGIC INVESTIGATIONS
MAP I-688



INDEX MAP OF NORTH AMERICA SHOWING EXTENT OF THE MAJOR UNITS DESIGNATED BY CAPITAL LETTERS IN THE LEGEND

LEGEND

PHANEROZOIC FOLDBELTS

Individual foldbelts, which are of different ages, are indicated by capital letters as follows: J, East Greenland; K, Innuitian; L, Appalachian; M, Ouachita; N, Andean; O, Cordilleran; P, Pacific; Q, Antillean. See also index map.

SEDIMENTARY UNITS

Thick deposits in structurally negative areas

Synorogenic and postorogenic deposits

Miogeosynclinal deposits

Eugeosynclinal deposits

Early geosynclinal deposits
Of Middle and Upper Proterozoic ages

Basement massifs
Mainly of Precambrian age. Includes metamorphic complexes that involve younger rocks

VOLCANIC AND PLUTONIC UNITS

Postorogenic volcanic cover

Granitic plutons
Ages are generally within the span of the tectonic cycle of the foldbelts in which they lie

Ultramafic rocks

SPECIAL UNITS

Eugeosynclinal deposits of the Pacific border
Includes Franciscan Formation of California

Exposed parts of Ouachita foldbelt

Probable western extension of Innuitian foldbelt
In cores of northern Alaska ranges

PRECAMBRIAN FOLDBELTS

Dark colors show areas of paraschist and paragneiss derived from supracrustal rocks; light colors show areas of granite and orthogneiss of plutonic origin

I — Grenville foldbelt
Deformed 880–1,000 m.y. ago

Hb — Rocks of the Hudsonian foldbelt
Overprinted by Elsonian event about 1,370 m.y. ago

H, Ha — Hudsonian foldbelts
Deformed 1,640–1,820 m.y. ago
Ha, *Supracrustal geosynclinal deposits in the Hudsonian and Grenville foldbelts*

G — Kenoran foldbelts
Deformed 2,390–2,600 m.y. ago

Anorthosite bodies
In Grenville and Elsonian belts or, alternatively, in eastern Canadian Shield

PLATFORM AREAS

F — Ice cap of Quaternary age
On Precambrian and Paleozoic basement

E — Plateau basalts and associated rocks
In North Atlantic province

D — Platform deposits on Mesozoic basement
In Arctic Coastal Plain

C — Platform deposits on Paleozoic basement
In Atlantic and Gulf Coastal Plains

B — Platform deposits on Precambrian basement
In central craton

A — Platform deposits within the Precambrian
Mainly in the Canadian Shield

STRUCTURAL SYMBOLS

Normal fault
Hachures on downthrown side

Transcurrent fault
Arrows show relative lateral movement

Thrust fault
Barbs on upthrown side

Subsea fault
Long dashes based on topographic and geophysical evidence; short dashes, based on geophysical evidence only

Axes of sea-floor spreading

Flexure
Arrows on depressed side

Salt domes and salt diapirs
In Gulf Coastal Plain and Gulf of Mexico

Volcano

Astrobleme

Contours on basement surfaces beneath platform areas
All contours are below sea level except where marked with plus symbols. Interval 1,000 meters

LESSER ANTILLES AND NORTHEASTERN SOUTH AMERICA

GENERALIZED TECTONIC MAP OF NORTH AMERICA

By

Philip B. King and Gertrude J. Edmonston

SCALE 1:15 000 000

100 0 100 200 300 400 500 600 700 800 900 1000 MILES

100 0 100 200 300 400 500 600 700 800 900 1000 KILOMETERS

1972

For sale by Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202

This map was reproduced by electronic color scanning of an earlier printing (1972).

INTERIOR—GEOLOGICAL SURVEY, RESTON, VA.—1972, REPRINTED, 1980 G80033