



GEOLOGY OF WEST AFRICA AND ADJACENT ATLANTIC OCEAN

SOURCES OF INFORMATION

Base map and major tectonic units on land taken from International Tectonic Map of Africa (1968) 1:5,000,000 A.S.G.A./UNESCO.

Offshore stratigraphic columns of Deep Sea Drilling Sites in Atlantic Ocean 1968 - 1970

Position of Anomaly J (135 m.y.) and Magnetic Quiet Zone from Pitman W. and Talwani M. (1972) Sea-Floor Spreading in the North Atlantic - Geol. Soc. of America.

Earthquake Events in Area 0 to 30 W and 20 to 40 N during period 1962 - 1970 - USCGS file.

Offshore buried diapir structures from Pautot G., Auzende J., Le Pichon X. (1970) Continuous Deep Salt Layer along North Atlantic Margins related to Early Phase of Rifting - Nature Vol. 227 p. 351.

CONTINENTAL GEOLOGY

- OROGENIES**
- ALPINE OROGENY
 - VARISCAN OROGENY
 - PRECAMBRIAN OROGENY - Includes all events 900-2650 m.y., mostly granites, and areas of granitization
- PLATFORM COVERS - CONTOURS 1000m INTERVALS (Isobaths on top of basement)**
- UNFOLDED POST - PALEOZOIC COVERS OF ALPINE AREA
 - UNFOLDED POST - PALEOZOIC COVER OF AFRICAN PLATFORM
 - UNFOLDED PALEOZOIC COVER OF PRECAMBRIAN PLATFORM
 - PLATFORM COVER OF INFRA - CAMBRIAN OR EO - CAMBRIAN AGE (AND LOWER CAMBRIAN)
 - POST - PALEOZOIC VOLCANICS
 - SALT DOMES

MARINE GEOLOGY

- Depth in Meters
- 0
 - 100
 - 200
 - 300
 - 400
 - 500
 - 600
 - 700
 - 800
- NANNOPLANKTON OOZE AND LIMESTONE
 - CLAY with ZEOLITE
 - SILT and SAND
 - DOLOMITIC SEDIMENT
 - SILICEOUS OOZE
 - CHERT
 - BASALT
 - HIATUS
- TP Pliocene
 - Tm Miocene
 - To Oligocene
 - Te Eocene
 - Tpa Paleocene
 - UK Upper Cretaceous
 - LK Lower Cretaceous

- DSDP Leg 14 Sites (Water Depth Meters)
- Other DSDP Sites (Water Depth Meters)
- Magnetic Quiet Zone Boundary
- Anomaly J
- Earthquake Events
- Buried Diapirs
- Isobaths in Meters

Map Compiled by A.C. Pimm and D.E. Hayes to Accompany Volume XIV Initial Reports of the Deep Sea Drilling Project.