ABOUT THIS MAP

This map was compiled as part of the
Bangladesh gas resources assessment
conducted under the Participating Agency
Service Agreement (PASA) signed between
U.S. Agency of International Development
(USAID) and the U.S. Department of Energy
(DOE) - PASA No: 388-P-00-99-00026.
The PASA provides for assistance to the
natural gas sector pursuant to which the
resources assessment was jointly carried
out. PASA also encourages transfer of new
technology, modelling practices and
geoscience theory from existing and
established programs in the United States
to the Government of Bangladesh,
Petrobangla, and Bangladesh academia.

This map has been compiled from the
Geological Map of Bangladesh,
by Md. Khurshid Alam, A.K.M.Shahidul
Hasan, and Mujibur Rahman Khan
(Geological Survey of Bangladesh), and
John W. Whitney (United States
Geological Survey), scale 1:1,000,000,
published by Geological Survey of
Bangladesh in 1990.

1. Original map was scanned on large
format Ideal scanner in color mode with
resolution 200 dpi.
2. The scanned image was transformed
to Lambert Conformal projection by
ArcInfo REGISTER and RECTIFY utilities.
3. Reference points for transformation
were latitude-longitude crosses taken from
paper map compared with the same crosses
projected to Lambert in ArcInfo PROJECT
utility. Overall RMS error of transformation
was 250 m (0.25 mm on original paper
map).
4. On-screen digitization was performed using
a rectified image as a backdrop in ArcInfo
ARCEDIT.
5. Geologic attributes were assigned to
GLG item of Feature Attribute Table (FAT)
of geology coverage.
6. Base map data layers - rivers, lakes,
cities - were digitized as separate
coverages.
7. All the ArcInfo coverages were
converted into .E00 files, then imported
to ArcView by IMPORT 71 utility and
saved as shape files.

Administrative and country boundary
coverages used on the map are the
property of Environmental System
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Back to previous menu

Index Map

Bangladesh

Description of Map Units

Surface Geology

Holocene Sediments:

Coastal Deposits:
- csd — Beach and dune sand

Deltaic Deposits:
- dsw — Mangrove swamp deposit
- dm — Tidal mud
- dt — Tidal deltaic deposits
- de — Estuarine deposits
- dsl — Deltaic silt
- dsd — Deltaic sand

Paludal Deposits:
- ppc — Marsh clay and peat

Alluvial Deposits:
- asd — Alluvial sand
- asl — Alluvial silt
- asc — Alluvial silt and clay
- ac — Chandina alluvium
- ava — Valley alluvium and colluvium

Alluvial Fan Deposits:
- afy — Young gravelly sand
- afo — Old gravelly sand

Residual Deposits:
- rb — Barind clay residuum
- rm — Madhupur clay residuum

Bedrocks:
- Qsm — St. Marin limestone (Pleistocene)
- QTdd — Dihing and Dupi Tila Formation Undivided
- QTdi — Dihing Formation (Pleistocene and Pliocene)
- QTdt — Dupi Tila Formation (Pleistocene and Pliocene)

Tipam Group:
- QTg — Girujan Clay (Pleistocene and Neogene)
- Tt — Tipam Sandstone (Neogene)

Surma Group:
- Tbb — Boka Bil Formation (Neogene)
- Tb — Bhuban Formation (Miocene)
- Tba — Barail Formation (Oligocene)

Jaintia Group:
- Tj — Jaintia Group includes:
  - Kopili Formation (Late Eocene)
  - Sylhet Limestone (Middle to Early? Eocene)
  - Tura Formation (Eocene and Paleocene)

- Lake
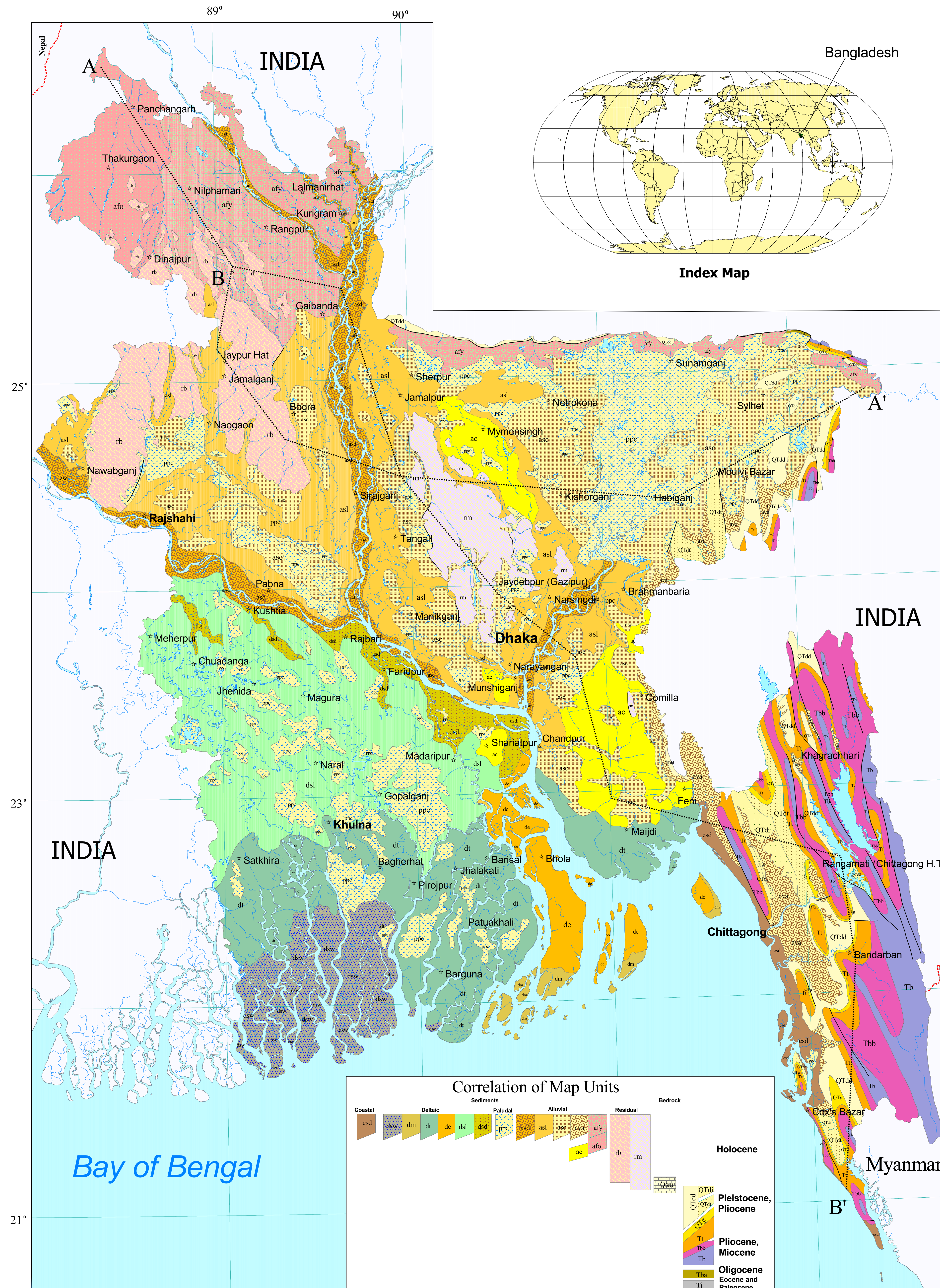- Ocean and wide river
- Areas outside of Bangladesh
- Major City
- Faults - Approximately located
- River
- Contact
- Political Boundary
- Section Line

Correlation of Map Units

Coastal	Deltaic	Sediments	Paludal	Alluvial	Residual	Bedrock	
csd	dsw dm dt de dsl dsd		ppc	asd asl asc afy	rb rm		Holocene
				ac afo		Qsm	
						QTdt QTdi QTdd QTg QTa	Pleistocene, Pliocene
						Tt Tbb	Pliocene, Miocene
						Tb	
						Tba	Oligocene
						Tj	Eocene and Paleocene

Bay of Bengal

Projection - Lambert Conformal Conic
Spheroid - Everest 1969
Central Meridian - 87 E
1-st standard parallel - 22 N
2-nd standard parallel - 25 N

Scale 1:1,000,000

30   0   30   60 Miles

40   0   40   80 Kilometers
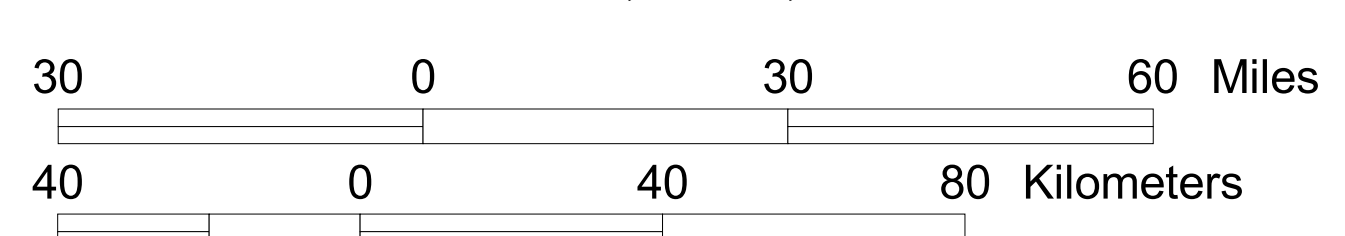
GEOLOGICAL MAP OF BANGLADESH

Original Geological Map by Md. Khurshid Alam, A.K.M.Shahidul Hasan, and Mujibur Rahman Khan, (Geological Survey of Bangladesh), and John W. Whitney, (United States Geological Survey)
1990
Digitally compiled by F.M.Persits, C.J.Wandrey, R.C. Milici, (USGS), and Abdullah Manwar, (Director General, Geological Survey of Bangladesh)
2001