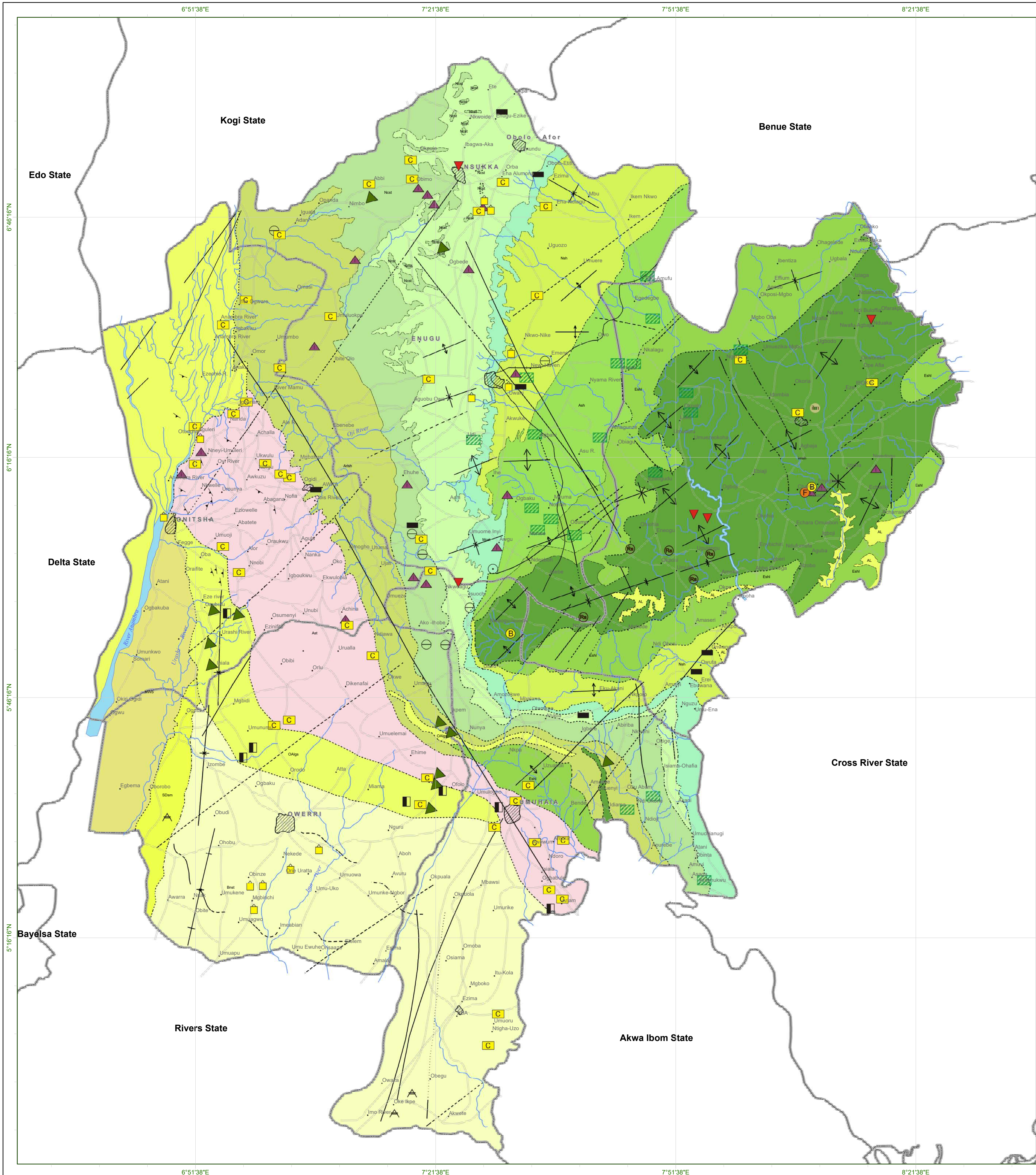


GEOLOGICAL AND MINERAL RESOURCES MAP OF SOUTH - EAST ZONE,NIGERIA .



EXPLANATIONS

- Al

Alluvium

MWS

Sand, gravel and clay

SDsm

Sand and Mud

Bast

Sand,gravel and clay

OAlgs

Lignite,sandstone and shale

Bst

Siltstone and sandstone

Imsh

Shale,limestone and Sandstone

Nest

Sandstone,shale and coal

Ajst

Sandstone

Mest

Coal, shale and loose sand

Nsh

Shale and mudstone

Ash

Shale and limestone

Eshl

Shale, siltstone and sandstone

Arsh

Shale,limestone and Pyroclastics
- C

Clay/Pottery clay

G

Glass sand

K

Kaolin/Kaolinitic clay

L

Lignite

Il

Ilmenite

Ls

Limestone

G

Gypsum

Io

Iron ore

Lz

Lead zinc

F

Flourite

B

Bitumen

O

Oil and gas

C

Coal

B

Brine

R

Rock salt
- INDUSTRIAL MINERALS

METALLIC MINERALS

SEMI - PRECIOUS MINERAL

ENERGY MINERALS

EVAPORITE MINERALS

Geological boundary Definite

Geological boundary inferred

Geological boundary approximate

Fault showing relative movement

Growth fault

Fracture/fault inferred

Fracture/fault from aeromagnetic map

Anticlenal axis

Synclinal axis..

Road

Railway

River

Sediment

Meander Belt Black swamps

Sambreiro Deltaic Plain

Benin Formation

Ogwashi - Asaba Formation

Ameki Formation

Imo Formation

Nsukka Formation

Ajali Formation

Mamu Formation

Nkporo Group

Awgu Formation

Eze Aku Group

Azu River Group

Holocene

Pliocene/Pleistocene

Miocene

Eocene

Paleocene

Maastrichtian /Danian

Maastrichtian

Campanian

Coniacian

Coniancian

Turonian

Albian Cenomanian

NEOGENE

PALEOGENE

CRETACEOUS

South-East Minerals

B

Baryte

B

Bentonite

B

Brine

C

Clay

C

Coal

L

Lignite

C

Copper

D

Diatomite

D

Dolomite

F

Feldspar

F

Flourite

G

Galena

G

Glass Sand

G

Gold

G

Gypsum

I

Iron

K

Kaolin - kaolinitic Clay

K

Kaoline

Lz

Lead - Zinc

L

Lignite

Ls

Limestone

M

Marcasite

M

Mica

O

Oil Gas

P

Phosphate

P

Pyrite - Pyroclore

S

Silica Sand

T

Talc

MAP HISTORY

This first edition depicts the Geological and Mineral resources of South West Zone collated from the data compiled by NGSA state offices. In 2004, the existing data on the geological and mineral resources of the zone was reviewed for each state under the permission of former Director General (Prof. Siyan Malomo), supervised by Mr. O. Ezewu (Zonal Coordinator) Detailed Geological mapping and field checks were carried out especially in areas suspected to be mineralized.

" ZONAL MINERAL RESOURCES MAP OF NIGERIA"

Data collection: Between 2019 - 2025, NGSA has generated more recent mineral location database to update the map content, Supervised by Director Economic Geology (Mr. Isaac Okwori)

Compilation and Checking/ Cartographic Design and GIS Map Reproduction: Supervised by: Mr. Ayodele A. Omotehinise (Chief Technical Officer, Cartography)

Entire Project undertaken by NGSA under the supervision of the Director General.

PUBLISHED BY THE
AUTHORITY OF THE FEDERAL REPUBLIC OF NIGERIA

PROF. OLUSEGUN O. IGE., FNMGS
Director General

Copyright Reserved @ Nigerian Geological Survey Agency 2025

1:500,000