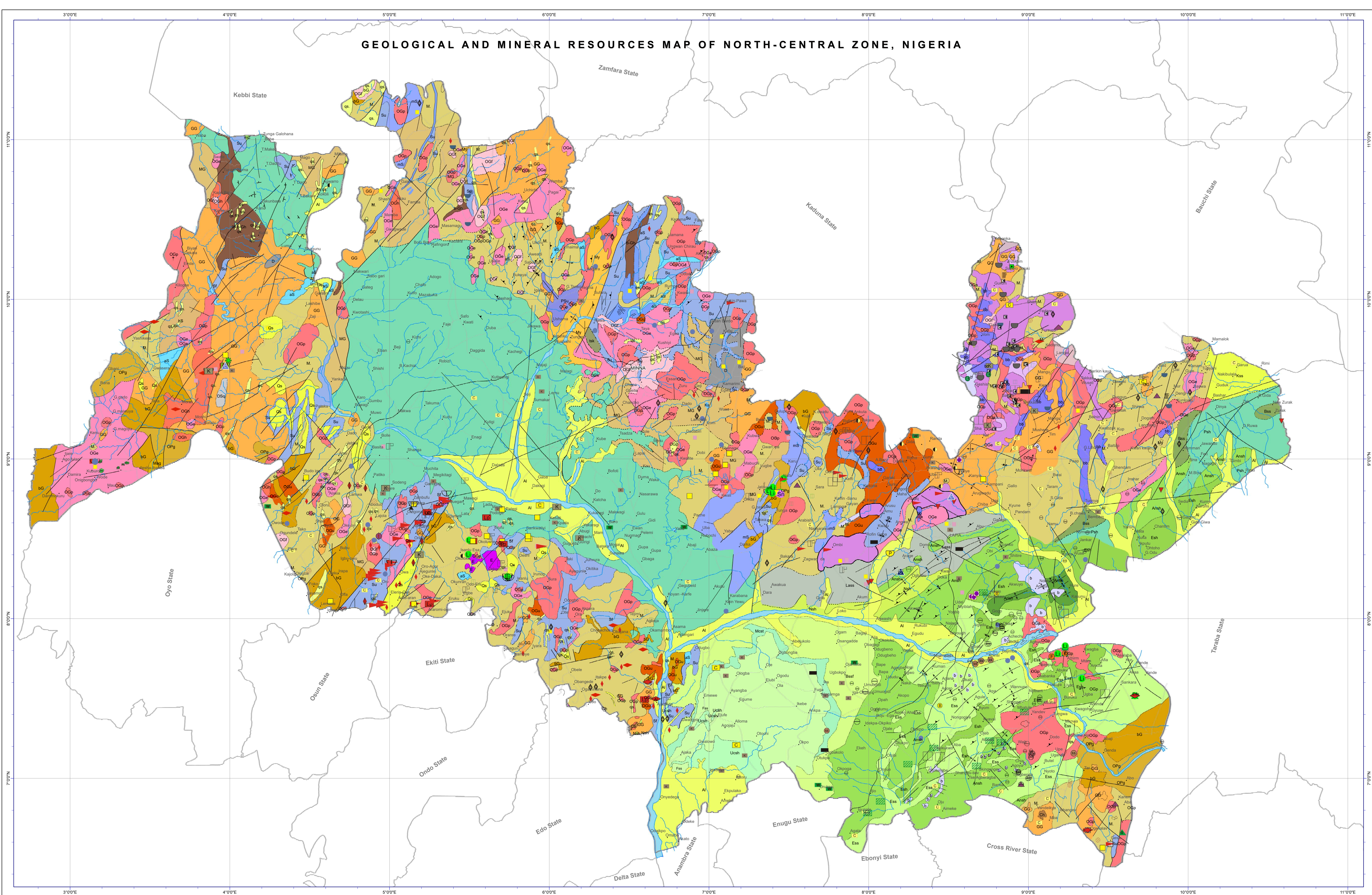
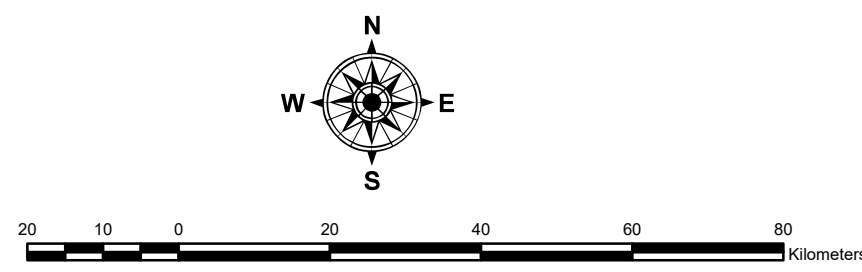




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PROF. OLUSEGUN O. IGE., FNMGS

Director General



MAP HISTORY

This first edition depicts the Geological and Mineral resources of South West Zone collated from the data compiled by NGS 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. Ezenu (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 Okwon)

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

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

EXPLANATIONS

Al Alluvium	Sediments	Recent	NEOGENE
r Rhyolite	Basalt and pyroclastics	Younger Volcanism	TERTIARY TO RECENT
b Basalt (Younger)	Kerri - Kerri Formation	Paleocene	PALEOGENE
bb Basalt (Older)	Nupe Formation	Maastrichtian	
Kss Sandstone shale and clay	Nsukka Formation	Paleocene/ Maestrichtian	
NPs Sandstone, Ironstone and limestone	Bassange Formation	Maastrichtian	CRETACEOUS
S Schist (sensui stricto)	Mamu Formation	Campanian	
Ucsh Coal, shale and sandstone	Nkporo Formation	Santonian	
Bssf Sandstone and Ironstone	Awgu Formation	Coniacian	
Mest Coal, sandstone and shale	Eze Aku Formation	Turonian	
Nsh Shale and mudstone	Azu River Group	Cenomanian	
ANsh Shale and limestone	Lafia Formation	Albian	
Esh Shale, siltstone and sandstone	Pindiga Formation		
Ess Sandstone	Bima Formation	Albian	
Arsh Shale and Limestone with sandstone intercalations			
Lass Sandstone, shale and clay			
Psh Shale, limestone and sandstone			
Bss Sandstone and siltstone			
JVI Ignimbrite	Younger granite		JURASSIC
Jvp Granite porphyry			
JVg Biotite granite			
JVs Syenite, quartz, syenite and gabbro			
D Dolerite			
OGe Medium - to coarse - grained biotite granite			
OSq Syenite, mainly of pyroxene diorite composition			
OGh Coarse - grained hornblende granite			
OGp Coarse Prophyritic biotite hornblende granite			
OGf Fine - grained biotite granite			
OGd Biotite, and biotite hornblende, granite			
OGu Undifferentiated Older Granite mainly, porphyritic granite, gneiss including, migmatitic gneiss and schist			
Ch Charnockite and charnockitic rocks			
G Gabbro and quartz gabbro			
as Amphibole schist, Amphibolite			
KS Kyanite schist			
tsa Talc Schist			
m Marble			
Sf Fine grained flaggy quartzite and quartz schist			
PSu Phyllitic and quartzitic schist, interlayened with Amphibolite			
Qs Quartzite massive and schistose also occurring as ridges			
ms Muscovite schist			
Su Undifferentiated Schists			
MC Meta - conglomerate			
hb-Gh Biotite Hornblende Gneiss			
OPg Porphyroblastic Gneiss			
GG Granite Gneiss			
MG Banded Gneiss			
MicG Migmatitic Augen Gneiss			
MG Migmatitic Gneiss			
M Migmatite			
qs Silicified shear rocks, large quartz veins and mylonites			
amy Mylonite interlayened with Amphibolites			
My Mylonites			
Geological boundary definite	Baryte		
Geological boundary inferred	Bentonite		
Geological boundary transitional	Cassiterite		
Geological boundary approximate	Clay		
Major faults	Feldspar		
Faults definite	kaolin		
Faults inferred	Monazite		
Faults showing sennse of movement	Marble		
Strike and Dip of Bedding..	Mica		
Strike and Dip of foliation	Columbite		
Anticlinal axis..	Staurolite		
Roads	Wolframite		
Railway	Gold		
River	Tourmaline		
	Quartz crystal		
	Granite		Iron Ore
	Gypsum		Lithium Ore
	Ilmenite		Tantalite
	Limestone		Tin
	Sapphire		Brine
	Clay		Coal
	Kaolin		Flourite
	Lepidolite		Galena
	Silica sand		Copper
	Tantalite		Iron ore
	Emerald		Malachite
	Garnet		Pyrite
	Lead/Zinc		Tin/ Cassiterite
	Monazite		Amethyst
	Topaz		Arsenic
	Brine water		Azurite

