NIGERIA MGCP TOPOGRAPHIC MAP 1:50,000

# IGUMALE NE

EDITION 1-WLP SERIES G764G SHEET 6138-1 NGSA_SHEET 288 NE

One second of longitude equals 30.7m

One second of latitude equals 30.72m

Amufu

Opalu

Ichama

Omanze

Igbede

Igumale

River Idemi

River Omaro

Owo Wells

## LEGEND

**POPULATED PLACES**
Built-up areas: Dense
Sparse or moderate
Not intact
Shantytown; Settlement
Buildings

**ROADS**
All weather, hard surface: 6 LANES
Divided highway: Wide separation 6 LANES
Narrow separation
Not intact divided (CONSTRUCTION)
Four or more lanes wide
Two or three lanes wide
One lane wide
All weather, loose surface:
Four or more lanes wide
Two or three lanes wide
One lane wide
Fair-weather, loose surface
Street: Hard; Loose
Not intact not divided (DESTROYED)
Cart track; Trail
Route markers: International; National E10 55
National motorway; Local 8 20

**RAILWAYS**
Standard/Broad gauge — Single Track — Multi-track
>= 1.44m (4' 8.5")
Narrow < 1.44m (4' 8.5")
Electrified (standard gauge)
Station; Turntable

**BOUNDARIES**
International
First-order administrative
Military installation

**CULTURAL FEATURES**
Building: Important — Police — Prison
Christian; Islam; Judaism
Pagoda; Stupa; Temple
School; Diplomatic; Petrol sale
Hospital; Minaret; Not intact
Fortification; Monument; Ruins
Hut; Holding pen; Surface bunker
Greenhouse; Post; Area

Cemetery: Christian; Islam; Judaism
Buddhism; Unknown
Tower: Communication; Non-communication; Water
Light; Cooling; Water intake
Dish aerial; Smokestack; Flare pipe
Windmill; Wind turbine; Crane
Mooring mast; Ski jump; Rig
Checkpoint; Power substation
Storage tank; Non-water well
Mine/Quarry: Intact; Not intact
UNESCO World Heritage Site
Dam: Hard; Loose
Lock; Sluice/Water gate
Tunnel: Road; Railway
Bridge: Pedestrian; Road; Railway
Culvert: Road; Railway
Wall; Fence
Pipeline: Surface — Water — Not water; Underground; Elevated
Sports ground; Vehicle lot

**VERTICAL OBSTRUCTIONS (VO) (>=46m)**
Elevation of obstruction top above sea level 430
Height of obstruction top above ground level (70)
Offshore Vertical Obstruction with Helipad
Wind turbine VO: Single; Multiple
VO Power/Communication line
Power line (<46m); Pylon VO
Communication line (<46m)

**AERONAUTICAL FEATURES**
Water aerodrome
Apron
Taxiway
Intact runway; Stopway
Not intact runway
Helipad: Non-hospital; Hospital

**HYDROGRAPHIC FEATURES** — Perennial — Intermittent/Dry
River: Less than 25m wide
25m wide or more
Disappearing; Dissipating
Ditch
Natural pool (spring)
Water well
Lake
Reservoir
Underground aqueduct with qanats
Waterhole; Cistern; Salt evaporator
Rice; Land subject to inundation; Bog/Marsh
Swamp: Other; Nipa/Palm; Mangrove

**COASTAL HYDROGRAPHIC FEATURES**
Exposed: Rock; Wreck; Reef

**VEGETATION**
Wood: Deciduous; Evergreen; Mixed
Unknown; Scattered trees; Thicket
Vineyard; Cane; Grassland
Orchard; Cropland: Other; Permanent irrigation
Row of trees; Hedgerow; Tree

**HYPSOGRAPHIC FEATURES**
Spot elevation: Highest; Normal; Water *0000 *9 210
Survey point: Geodetic; Benchmark 1351 BM. *2645
Mountain pass; Cave mouth ) ( 182
Revetment; Rock; Volcano
Steep terrain face; Levee/Dyke
Cut line; Fill
Sand; Gravel/Moraine
Distorted surface; Other

**Sheet History**
The Production of Topographic Mapping Sheets with corresponding Geo-databases, using International MGCP Standards, for 340 complete sheets derived from processed satellite imagery (ortho-rectified) mosaic and the WorldDEM. The QA/QC on products incorporated the use of Geospatial Analysis Integrity Tools (GAIT) for geo-database validation by Hexagon. The by-products include anaglyph imaging and MTM50 map sheets (1:50,000 scale) in GeoPDF / GeoTIFF format, generated using Cartographic Production software. The MGCP Topographic Maps were specially prepared as base map data for the use of NGSA in collaboration with the Federal Ministry of Mines and Steel through MinDiver (World Bank assisted project), supported by Woolpert.

## NOTES

VECTOR FEATURE DATA CAPTURED FROM 1:5M RESOLUTION SPOT IMAGERY (2018-2022).

A LANE ON THIS MAP IS CONSIDERED TO BE AT LEAST 2.5 METERS (8.2 FEET) WIDE.

ROAD CLASSIFICATION SHOULD BE REFERRED TO WITH CAUTION.

ONLY THROUGH ROUTES ARE CLASSIFIED IN BUILT-UP AREAS.

FORDS ON RIVERS HAVE ONLY BEEN CAPTURED WHERE VISIBLE ON 1.5M RESOLUTION IMAGERY.

CAUTION: NOT ALL COMMUNICATION AND POWER DISTRIBUTION LINES ARE SHOWN.

THE NORMAL (PREDOMINANT) RAILWAY GAUGE IS 1.067 METERS (3' 6").

TO CONVERT METERS TO FEET USE THIS FACTOR: 1 METER = 3.28 FEET.

GROUND REFERENCE POINTS WERE COLLECTED FOR THE GREATER PROJECT AREA AND CAN BE REQUESTED FROM THE NGSA.

MAP INFORMATION AS OF 2022

INTERNATIONAL BOUNDARIES AS OF 2022

TO ENSURE THAT THIS MAP WAS PRINTED AT THE CORRECT SCALE, 10,000 METERS (10 UTM GRID SQUARES) SHOULD MEASURE EXACTLY 20 CENTIMETERS (7.87 INCHES).

One second of longitude equals 30.7m

Scale 1:50,000

Meters 1000 500 0 1 2 3 4 5 Kilometers

1 ½ 0 1 2 3 Statute Miles

1 ½ 0 1 2 3 Nautical Miles

ELEVATIONS IN METERS

CONTOUR INTERVAL 20 METERS
SUPPLEMENTARY CONTOURS 10 METERS

ELLIPSOID . . . . . WORLD GEODETIC SYSTEM 1984
GRID . . . . . 1,000 METER UTM ZONE 32
PROJECTION . . . . . TRANSVERSE MERCATOR
VERTICAL DATUM . . . . . MEAN SEA LEVEL
HORIZONTAL DATUM . . . . . WORLD GEODETIC SYSTEM 1984
FILE PREPARED BY . . . . . Woolpert, Inc.

SAMPLE 1,000 METER GRID SQUARE
46
*SAMPLE POINT
12 13 45
100,000 M. SQUARE IDENTIFICATION
LN
GRID ZONE DESIGNATION
32N

100 METER REFERENCE
1. Read large numbers labeling the VERTICAL grid line left of point and estimate tenths (100 meters) from grid line to point: 12 3
Example: 123456
2. Read large numbers labeling the HORIZONTAL grid line below point and estimate tenths (100 meters) from grid line to point: 45 6
Example: 123456
WHEN REPORTING ACROSS A 100,000 METER LINE, PREFIX THE 100,000 METER SQUARE IDENTIFICATION IN WHICH THE POINT LIES.
Example: LN123456
WHEN REPORTING OUTSIDE THE GRID ZONE DESIGNATION AREA, PREFIX THE GRID ZONE DESIGNATION.
Example: 32NLN123456

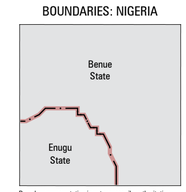
## SLOPE GUIDE

PERCENTAGE DEGREE
15% 8.5°
14% 8.0°
13% 7.4°
12% 6.9°
11% 6.3°
10% 5.7°
9% 5.2°
8% 4.6°
7% 4.0°
6% 3.4°
5% 2.9°
A B C

AB-HORIZONTAL DISTANCE BETWEEN CONTOURS
AC-HORIZONTAL DISTANCE BETWEEN INDEX CONTOURS

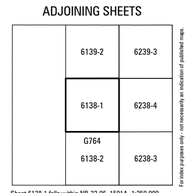
GN
MAGNETIC NORTH
GRID NORTH
TRUE NORTH
2020
G-M ANGLE
½° (10 MILS) WEST
GRID CONVERGENCE
0°08' (2 ½ MILS) EAST
FOR CENTER OF SHEET
TO CONVERT A MAGNETIC AZIMUTH TO A GRID AZIMUTH SUBTRACT G-M ANGLE
TO CONVERT A GRID AZIMUTH TO A MAGNETIC AZIMUTH ADD G-M ANGLE

BOUNDARIES: NIGERIA




Boundary representation is not necessarily authoritative.

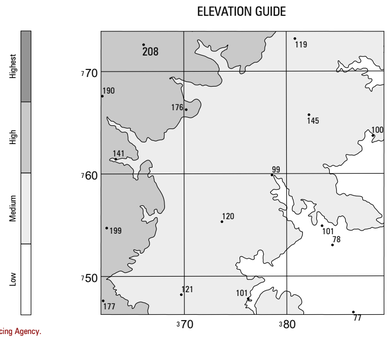
ADJOINING SHEETS




Sheet 6138-1 falls within NB-32-06, 1501A, 1:250,000.

For data purposes only - not warranted by or attributed of published maps.

ELEVATION GUIDE




LIMITED DISTRIBUTION

Distribution authorized to Ministry of Mines and Steel Development or Producing Agency. Removal of this caveat is prohibited.

WGS 84

CAUTION: VERIFY RED-LIGHT READABILITY

COPYRIGHT RESERVED
Reproduction of all or part of this MGCP/V2 Topographic map standard requires the permission of the NGSA.
© Government of the Federal Republic of Nigeria, 2023

*Copies can be obtained from Nigerian Geological Survey Agency, Headquarters, Abuja*

MINISTRY OF Mines and Steel Development

Prepared and published in 2022 by Woolpert, Inc. using MGCP data produced by Woolpert, Inc.

WOOLPERT

PUBLISHED UNDER THE AUTHORITY OF THE FEDERAL GOVERNMENT OF NIGERIA
Nigerian Geological Survey Agency

IGUMALE NE, NIGERIA 6138-1 G764G EDITION 1-WLP

REF. NO. G764X61381