SERIES 1501 AIR
SHEET SB 33-13
EDITION 1

SERIES 1501 COMPANION SHEET IS EDITION 1

ELEVATION TINTS

FEET
660
330
0

RELIABILITY OF THIS GRAPHIC
(as determined by standard practices)

PLOTTING ACCURACY 90% ASSURANCE

Horizontal	within 410 feet
Contours	within 82 feet
Roads	1974
Coastal hydrography	1973–74
All other features	1969

Horizontal Datum: World Geodetic System
Vertical Datum: Mean Sea Level
Transverse Mercator Projection

GLOSSARY

Baía; Enseada	bay
Farol	lighthouse
Fazenda	farm
Ilha(s)	island(s)
Lagoa	lake, lagoon
Ponta	point
Ponte	bridge
Praia	beach
Província	first-order administrative division
Quedas	waterfall
Rio	stream

LINES OF EQUAL MAGNETIC VARIATION FOR 1990
(Annual rate of change 8′ decrease)

CAUTION
AIR INFORMATION CURRENT THROUGH
17 JUNE 1992
Consult NOTAMS and Flight Information Publications for the latest air information; the DOD Aeronautical Chart Updating Manual or MOD (U.K.) Aeronautical Chart Amendment document, for other chart revision information.

LOCATION DIAGRAM
(ONC INDEX SHOWN IN BLUE)
(WAC INDEX SHOWN IN RED/BROWN)

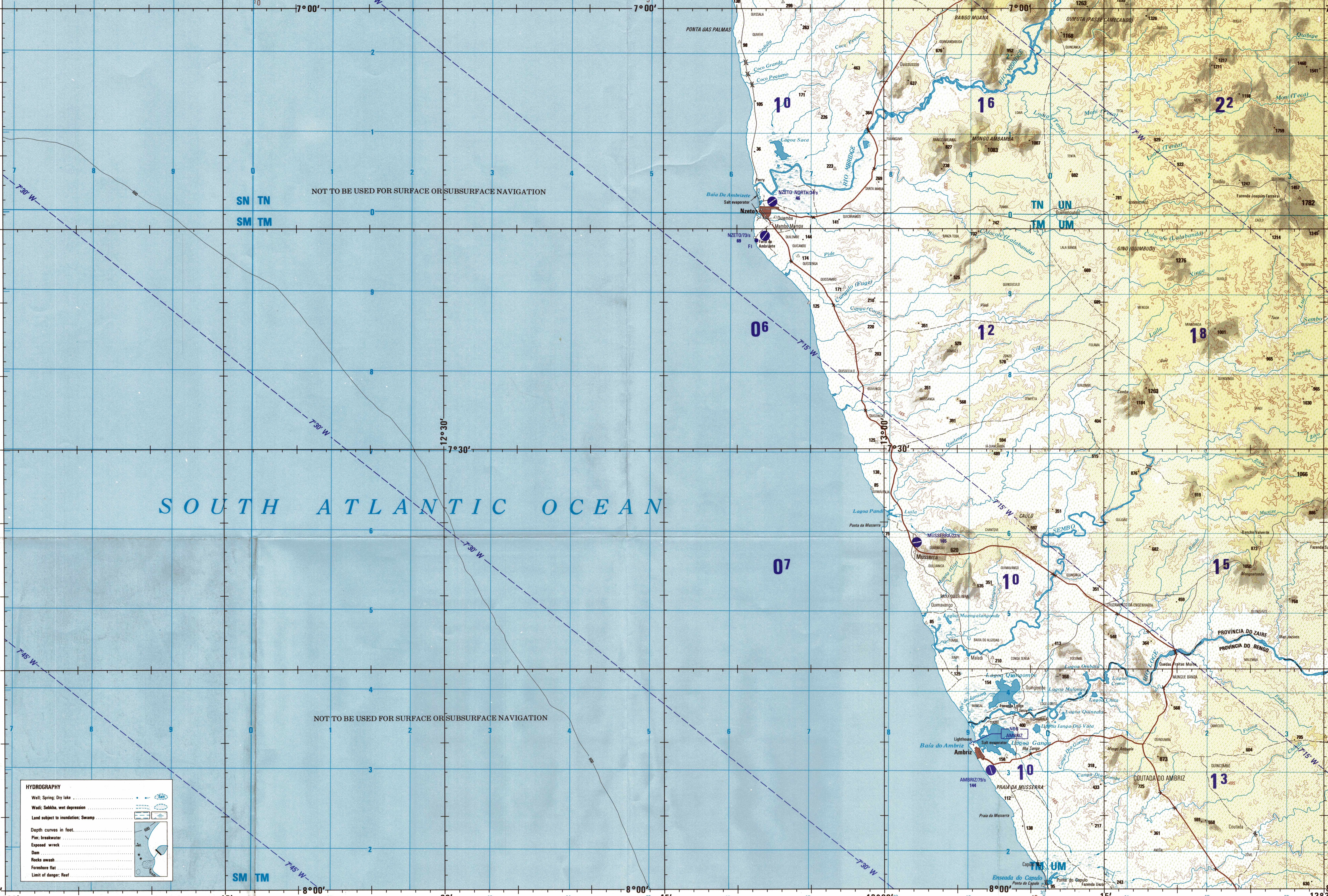
10°30′ 15°
6°
SOUTH ATLANTIC OCEAN
ZAIRE SB 33-9 | SB 33-10
1026 1027 M-3 SB 33-13 | ANGOLA SB 33-14
1058 1057 SC 33-1 N-3 | SC 33-2
9°

CONVERSION OF ELEVATIONS

FEET	METERS	FEET	METERS
1000	305	10000	3048
900	274	9000	2743
800	244	8000	2438
700	213	7000	2134
600	183	6000	1829
500	152	5000	1524
400	122	4000	1219
300	91	3000	914
200	61	2000	610
150	46	1500	457
100	31	1000	305

GEOREF
BASIC 15° QUADRANGLE
NF
7°
8° NH PH
12° 13° 13°30′

CAUTION
Vertical obstructions, including powerlines, have been extracted from the most reliable sources available. However, there is no assurance that all are shown, or that their locations or heights are exact.



17⁰⁰⁰⁰m.E.

Prepared and published by the Defense Mapping Agency Hydrographic/Topographic Center, Bethesda, MD.

Compiled October 1978

DEPTHS IN FEET

ELEVATIONS IN FEET

ROADS

All weather, hard surface
More than two lanes wide .... 3 LANES
Two lanes wide ....
All weather, loose or light surface
More than two lanes wide .... 3 LANES
Two lanes wide ....
All weather, loose or light surface, one lane wide ....
Fair or dry weather, loose surface ....
Cart track; Trail ....

BOUNDARIES

International ....
First-order administrative ....

HORIZONTAL CONTROL POINTS

Astronomic position ....
Horizontal control point ....
Spot elevation: Normal; Critical .... .109 . 356

VEGETATION

Woods; Scattered trees ....
Mangrove ....
Orchards, plantations, vineyards ....

JOINT OPERATIONS GRAPHIC (AIR)

SCALE 1:250,000

5 0 5 10 Statute Miles
5 0 10 15 Kilometers
5 0 5 Nautical Miles

CONTOUR INTERVAL APPROXIMATELY 165 FEET

BLUE NUMBERED LINES INDICATE THE 10,000 METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 33, WORLD GEODETIC SYSTEM 1984 ELLIPSOID.

RED/BROWN NUMBERED TICKS INSIDE THE NEATLINE INDICATE THE 10,000 METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 33, CLARKE 1880 ELLIPSOID.

USERS SHOULD REFER CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NIMA CUSTOMER HELP DESK: 1-800-455-0899, COMMERCIAL 1-314-260-1236, DSN 490-1236, OR WRITE TO: DIRECTOR, NATIONAL IMAGERY AND MAPPING AGENCY, ATTN: CO, 8613 LEE HIGHWAY, FAIRFAX, VA 22031-2137.

HYDROGRAPHY

Well; Spring; Dry lake .... Salt
Wadi; Sebkha, wet depression ....
Land subject to inundation; Swamp ....
Depth curves in feet 600
Pier, breakwater ....
Exposed wreck ....
Dam ....
Rocks awash ....
Foreshore flat ....
Limit of danger; Reef ....

COORDINATE CONVERSION WGS 84 TO ARC 50
Grid: Subtract 24 m. E., Add 283 m. N.
Geographic: Subtract 0.6″ Long., Subtract 6.7″ Lat.

SAMPLE 10,000 METER GRID SQUARE
Sample point
100,000m SQUARE INDENTIFICATION
See Body of Map
GRID ZONE DESIGNATION
33M

SAMPLE 1,000 METER REFERENCE
1. Read letters identifying the 100,000 meter square in which the point lies: AB
2. Read large number labeling the VERTICAL grid line left of point: 1
Estimate tenths (1,000 meters) from grid line to point: 2
3. Read large number labeling the HORIZONTAL grid line below point: 3
Estimate tenths (1,000 meters) from grid line to point: 4
Example: AB1234

WHEN REPORTING OUTSIDE THE GRID ZONE DESIGNATION AREA IN WHICH THE POINT LIES, PREFIX THE GRID ZONE DESIGNATION.
Example: 33MAB1234

SCALE 1:250,000
NZETO, ANGOLA

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AERODROMES (Military or Civil)

Runway pattern known EDNA/50/s 725
EDNA–Name
50–Length of longest runway to nearest hundreds of feet
s–Soft or unimproved surface
u–Unknown surface
725–Elevation
Runway pattern unknown ....
HELIPORT/HELIPAD ....
HELIPORT/HELIPAD AT HOSPITAL ....

RADIO FACILITIES

RADIO RANGE LF/MF .... RNG HURN
MULTIPLE RADIO FACILITIES .... NDB-RNG PARIS

CONTROLLED AIRSPACE

ADIZ .... ATLANTIC ADIZ

VISUAL AIDS AND OBSTRUCTIONS

Obstruction 1108 (259)
1108–Elevation of obstruction top, above sea level.
(259)–Elevation of obstruction top, above ground level.
Group obstruction ....
Marine light ....

TERRAIN ELEVATIONS

Highest known elevation is **1782** feet at the following coordinates:
Geographic .... 7°12′S, 13°28′E
Grid UN3102

Reprinted by NIMA 12-97

ATTENTION
THIS CHART CONTAINS MAXIMUM ELEVATION FIGURES (MEF)
The Maximum Elevation Figures shown in quadrangles bounded by ticked lines of latitude and longitude are represented in THOUSANDS and HUNDREDS of feet above mean sea level. The MEF is based on information concerning the highest known feature in each quadrangle, including terrain and obstructions (trees, towers, antennas, etc.).
EXAMPLE: 12,500 feet 12⁵

NOTES

Powerlines are shown except within populated place tints. Other obstructions are shown if they are 200 feet or more above ground level. See caution note.

BOUNDARY REPRESENTATION IS NOT NECESSARILY AUTHORITATIVE.

On this graphic a lane is generally considered as being 8 feet (2.5 meters) in width.

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