SERIES 1501 AIR
SHEET ND 31-13
EDITION 1
COMPANION SERIES 1501 SHEET IS EDITION 1

ELEVATION TINTS

FEET
1050
525

RELIABILITY OF THIS MAP

Accuracy, as related to control of map:
Horizontal positions...is in excess of 1640 ft.
Contours.....within 131 ft.

Compiled from best available source materials 1966

Road classification not verified by reconnaissance.
Horizontal Datum: Independent Astronomic Stations
Vertical Datum: Mean Sea Level

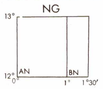
LOCATION DIAGRAM FOR ND 31-13
(WAC INDEX SHOWN IN BLUE)

ND 30-12	ND 31-9	ND 31-10 NIGER
UPPER VOLTA ND 30-16 675	ND 31-13 676	ND 31-14
NC 30-4 GHANA	NC 31-1 TOGO 782 781	NC 31-2 DAHOMEY

GLOSSARY

Circonscription.....primary administrative division
Département..primary acministrative division

GEOREF
BASIC 15° QUADRANGLE



NG

CAUTION
AIR INFORMATION CURRENT THROUGH 1 JULY 1968
Consult Notices to Airmen (NOTAMs) and Flight Information Publications (FLIPs) for the latest air information; the Chart Updating Manual (CHUM) for other chart revision information.

SCALE 1:250,000
FADA NGOURMA
UPPER VOLTA

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Prepared under the direction of the Defense Intelligence Agency and published by the Army Map Service, Corps of Engineers, U.S. Army, Washington, D.C. Compiled in 1966 from best available source materials.

AERONAUTICAL APPROACH CHARTS (Code: AC) and/or AERONAUTICAL CHARTS (Code: AGC) completely within this area are discontinued. Those that are partially within this area should be retained until publication of the adjacent Joint Operations Graphic (Air) 1501 AIR. Consult the DOD Bulletin for publication and discontinuance notices.

GRID ZONE DESIGNATION: 31P	TO GIVE A STANDARD REFERENCE ON THIS SHEET TO NEAREST 1000 METERS
100,000 M. SQUARE IDENTIFICATION	SAMPLE POINT: Bouhari
AE BE CE / AD BD CD (140 / 20 30)	1. Read letters identifying 100,000 meter square in which the point lies. 2. Locate first VERTICAL grid line to LEFT of point and read LARGE figure labeling the line either in the top or bottom margin, or on the line itself: Estimate tenths from grid line to point; 3. Locate first HORIZONTAL grid line BELOW point and read LARGE figure labeling the line either in the left or right margin, or on the line itself: Estimate tenths from grid line to point;
	SAMPLE REFERENCE: BD5981
IGNORE the SMALLER figures of any grid number; these are for finding the full coordinates. Use ONLY the LARGER figure of the grid number, example: 13 20000	If reporting beyond 18° in any direction, prefix Grid Zone Designation, as: 31PBD5981

LEGEND

ELEVATIONS IN FEET

ROADS
- All weather, hard surface — Two or more lanes wide — 2 LANES
- All weather, loose or light surface — Two or more lanes wide — 2 LANES
- All weather, hard surface — One lane wide
- All weather, loose or light surface — One lane wide
- Fair or dry weather, loose surface, dirt road
- Cart track
- Footpath, trail

RAILROADS — Single track / Multiple track
- Normal gauge
- Narrow gauge
- Station

BOUNDARIES
- International
- Primary administrative
- Reservation

VEGETATION
- Woods-brushwood
- Scattered trees
- Orchard, plantation, vineyard
- Rice paddy

JOINT OPERATIONS GRAPHIC (AIR)

Scale 1:250,000

5 0 5 10 15 20 Statute Miles
5 0 5 10 15 20 25 30 Kilometers
5 0 5 10 Nautical Miles

CONTOUR INTERVAL APPROXIMATELY 135 FEET

TRANSVERSE MERCATOR PROJECTION

USERS SHOULD REFER CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NGA OPERATIONAL HELP DESK: 1-800-455-0986; COMMERCIAL 314-263-4864; DSN 693-4864; OR WRITE TO: DIRECTOR, NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY, ATTN:: ES, MAIL STOP L-88, 4600 SANGAMORE ROAD, BETHESDA, MD 20816-5003.

BLUE NUMBERED LINES INDICATE THE 10,000 METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 31, CLARKE 1880 SPHEROID

ELEVATIONS IN FEET

AERODROMES (Military or Civil)
- Field limits with runway pattern — EDNA/50/s — 725
  - EDNA—Name
  - 50—Length of longest runway to nearest hundreds of feet
  - s—Soft or unimproved surface
  - 725—Elevation
- Field limits, with runway pattern unknown
- Field limits, with runway pattern
- Field limits and runway pattern unknown
- SEAPLANE BASE
- SEAPLANE (EMERGENCY)
- HELIPORT

RADIO FACILITIES
- RADIO RANGE LF/MF — RNG HURN
- MULTIPLE RADIO FACILITIES — R Bn D F-RNG PARIS

TERRAIN ELEVATIONS
HIGHEST KNOWN elevation is 1339 feet at 12°53'N 0°25'E
± following elevation value indicates accuracy is not within 66 feet.
Spot elevation in feet: Normal; Critical ..... 860' 1640

CONTROLLED AIRSPACE
- ADIZ — ATLANTIC ADIZ

VISUAL AIDS AND OBSTRUCTIONS — 1108 (259)
- Obstruction — 1108—Elevation of obstruction top, above sea level; (259)—Elevation of obstruction top, above ground level.
- Group obstruction
- Radio facility obstruction
- Power transmission line
- Ocean station vessel (Normal position) — M
- Visual ground sign
- Aero light; Marine light

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HIGHEST TERRAIN elevations for each 15 MINUTE QUADRANGLE are represented in THOUSANDS and HUNDREDS of feet. They are omitted where relief information is inadequate. A minus sign (–) following the figure indicates that the figure is based on an estimated elevation.

EXAMPLES:

51 81-

NOTES

THE REPRESENTATION OF INTERNATIONAL BOUNDARIES IS NOT NECESSARILY AUTHORITATIVE.

On this map a lane is generally considered as being 8 to 16 feet (2.44 to 4.88 meters) in width.

No obstructions 200 feet or more above ground level are known to exist within this area.

LINES OF EQUAL MAGNETIC VARIATION FOR 1965
(Annual rate of change 6' decrease)

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