SERIES 1501 AIR
SHEET NP 37, 38-12
EDITION 1
SERIES 1501 COMPANION SHEET IS EDITION 1

ELEVATION TINTS (FEET)
495
165
BSL

RELIABILITY OF THIS GRAPHIC
(as determined by standard practices)

PLOTTING ACCURACY 90% ASSURANCE	AREA I	AREA II
Horizontal Contours	within 425 ft. 90 ft.	within 425 ft. 90 ft.
GRAPHIC FEATURE	DATE OF INFORMATION AREA I	AREA II
Contours	1987	1987
All other features	1995	1994

Graphic not field checked

Horizontal Datum: World Geodetic System 1984
Vertical Datum: Mean Sea Level
Transverse Mercator Projection

GLOSSARY

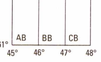
Bloto . . . . . swamp
Oblast' . . . . . first-order administrative division
Ozero . . . . . lake
Stantsiya . . . . . railroad station

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

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
RL



CAUTION
AIR INFORMATION CURRENT THROUGH 2 APRIL 1998
Consult NOTAMS and Flight Information Publications for the latest air information; the NIMA Aeronautical Chart Updating Manual or MCD (U-A) Aeronautical Chart Amendment document, for other chart revision information.

LINES OF EQUAL MAGNETIC VARIATION FOR 1995
(Annual rate of change 3' increase)

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.

SCALE 1:250,000
KOTLAS, RUSSIA

SERIES 1501 AIR
SHEET NP 37, 38-12
EDITION 1
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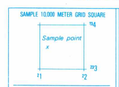
Prepared and published by the National Imagery and Mapping Agency. Compiled August 1997.

MAP INFORMATION AS OF 1995

COORDINATE CONVERSION FROM WGS 84 TO WGS 72
Grid: Subtract 8m E., Subtract 4m N.
Geographic: Subtract 0.6" Long., Subtract 0.1" Lat.

SAMPLE 10,000 METER GRID SQUARE



100,000m SQUARE IDENTIFICATION
See Body of Map
GRID ZONE DESIGNATION
38V

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: 38VAB1234

ELEVATIONS IN FEET

JOINT OPERATIONS GRAPHIC (AIR)

SCALE 1:250,000

5 0 5 10 Statute Miles
5 0 5 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 38 WORLD GEODETIC SYSTEM 1984 DATUM AND 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: ATTN: CSD1, MAIL STOP P-37, NATIONAL IMAGERY AND MAPPING AGENCY, 4600 SANGAMORE ROAD, BETHESDA, MD 20816-5003.

ROADS
Dual highway . . . . . 4 LANES DUAL
All weather, hard surface
More than two lanes wide . . . . . 4 LANES
Two lanes wide
One lane wide
All weather, loose or light surface
More than two lanes wide . . . . . 3 LANES
Two lanes wide
One lane wide
Fair or dry weather, loose surface
Cart tracks
Footpath, trail
Route marker 11

RAILROADS
Normal gauge, single track 1.52m (5'0"); Double track
Narrow gauge

BOUNDARIES
International
First-order administrative

VEGETATION
Woods, brushwood; Scattered trees

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 of unimproved surface
725 - Elevation
Runway pattern unknown
HELIPORT/HELIPAD

RADIO AIDS TO NAVIGATION
VHF OMNI RANGE (VOR)
VORTAC
TACAN
VOR with DME
Other facilities

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

CONTROLLED AIRSPACE
ADIZ . . . . . CONUS 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
Radio facility obstruction
Power transmission line
Visual ground sign . . . . . M
Aero light; Marine light

TERRAIN ELEVATIONS
Spot elevation, normal; critical *646 *840
HIGHEST KNOWN elevation is 863 feet at the following coordinates:
Geographic . . . . . 61°13'N, 45°46'E
Grid NN4188

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.
Road classification should be referred to with caution.

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 available concerning the highest known feature in each quadrangle, including terrain and obstructions (trees, towers, antennas, etc.)
EXAMPLE: 12,500 feet . . . . . 12^5

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