

SERIES 1501 AIR
SHEET NO 40-5
EDITION 1

SERIES 1501 COMPANION SHEET IS EDITION 1

POPULATED PLACES

Over 100,000	MOSKVA
50,000 to 100,000	KLIMOVSK
10,000 to 50,000	Obukhovo
2,000 to 10,000	Kubinka
Less than 2,000	Dubny

ROADS

Dual highway	4 LANES DUAL
All weather, hard surface	4 LANES
More than two lanes wide	4 LANES
Two lanes wide	2 LANES
One lane wide	1 LANE
All weather, loose or light surface	3 LANES
More than two lanes wide	3 LANES
Two lanes wide	2 LANES
One lane wide	1 LANE
Fair or dry weather, loose surface	2 LANES
One lane wide	1 LANE
Fair or dry weather, loose surface	1 LANE
Cart track	1 LANE
Route marker	1 LANE

RAILROADS

Normal gauge: Single track 1.52m (5'); Double track	Normal gauge: Single track 1.52m (5'); Double track
Narrow gauge: Single track; Double track	Narrow gauge: Single track; Double track
Electrified: Single track; Double track	Electrified: Single track; Double track
Spur	Spur
Station position: known; unknown	Station position: known; unknown

BOUNDARIES

International	International
First-order administrative division	First-order administrative division

OTHER FEATURES

Tunnel; Landmark building	Tunnel; Landmark building
Horizontal control point	Horizontal control point
Mine or quarry	Mine or quarry
Bridge	Bridge
Dam	Dam
Marsh or swamp; Land subject to inundation	Marsh or swamp; Land subject to inundation

VEGETATION

Woods; Scattered trees	Woods; Scattered trees
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TERRAIN ELEVATIONS

Spot elevation: normal, critical 646 840
HIGHEST KNOWN elevation is 1660 feet at the following coordinates:
Geographic: 58°42'N, 57°38'E
Grid: EL3710

AERODROMES (Military or Civil)

EDNA/50% 725

Runway pattern known
EDNA-Name
50'-Length of the longest runway to nearest hundreds of feet
S-Soft or unimproved surface
U-Unknown surface
725-Elevation
Runway pattern unknown

HELIPORT/HELIPAD

H

RADIO FACILITIES

VHF OMNI RANGE (VOR) VOR WITH DME
VORTAC Other Facilities
TACAN

CONTROLLED AIRSPACE

CONUS ADIZ

VISUAL AIDS AND OBSTRUCTIONS

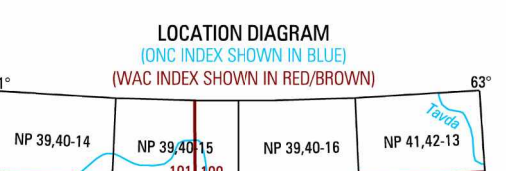
Obstruction 1108 (259)
1108: Elevation of obstruction top, above sea level.
(259): Elevation of obstruction top, above ground level.
Group obstruction
Radio facility obstruction
Power transmission line
Visual ground sign
Aero light; Marine light

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.

CAUTION
AIR INFORMATION CURRENT THROUGH 28 DECEMBER 2000
Consult NOTAMS and Flight Information Publications for the latest air information; the DOD Aeronautical Chart Updating Manual or Aeronautical Chart (U.K.) Aeronautical Chart Amendment document, for other chart revision information.

LINES OF EQUAL MAGNETIC VARIATION FOR 1995
(Annual rate of change 2' increase)

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.)
125
EXAMPLE: 12,500 feet



Prepared and published by the National Imagery and Mapping Agency
Compiled August 2000

MAP INFORMATION AS OF 1995



CONVERSION OF ELEVATIONS

FEET	METERS	FEET	METERS
1000	305	10000	3048
800	274	8000	2743
600	244	6000	2438
400	213	4000	2134
200	183	2000	1829
100	152	1000	1524
50	152	4000	1219
300	91	3000	914
200	61	2000	610
150	46	1500	457
100	31	1000	305

ELEVATIONS IN FEET

COORDINATE CONVERSION WGS 84 TO WGS 72
Grid: Subtract 9m.E., Subtract 4m.N.
Geographic: Add 0.6" Long., Subtract 0.1" Lat.

SAMPLE 1,000 METER GRID

SAMPLE 1,000 METER REFERENCE

- Read across identifying the 100,000 meter square in which the point lies.
- Read large number labeling the VERTICAL grid line to the right.
- Read large number labeling the HORIZONTAL grid line below the point.

Example: AB1234

WHEN REPORTING OUTSIDE THE GRID ZONE DESIGNATION AREA IN WHICH THE POINT LIES, PREFIX THE GRID ZONE DESIGNATION.

Example: 40VAB1234



SCALE 1:250,000

0 5 10 15 20 25 30 Statute Miles

0 5 10 15 20 25 30 Kilometers

0 5 10 15 20 25 30 Nautical Miles

JOINT OPERATIONS GRAPHIC (AIR)

CONTOUR INTERVAL APPROXIMATELY 165 FEET
WITH SUPPLEMENTARY CONTOURS AT APPROXIMATELY 85 FEET

BLUE NUMBERED LINES INDICATE THE 10,000 METER UNIVERSAL TRANSVERSE MERCATOR GRID ZONE 40, WORLD GEODETIC SYSTEM 1984 (ELLIPSOID).

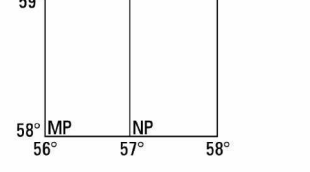
USERS SHOULD REFER TO CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NIMA OPERATIONAL HELP DESK 1-800-450-0890, COMMERCIAL 314-263-4846, OR WRITE TO: DIRECTOR, NATIONAL IMAGERY AND MAPPING AGENCY, ATTN: ES, MAIL STOP 1-8, 4806 SANGAREE ROAD, BETHESDA, MD 20816-5003.

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GLOSSARY

District: first-order administrative division
Distro: lake
Prud: reservoir(s)
Stantsiya: railroad station
Vodokhranilishche: reservoir(s)

GEOREF BASIC 15° QUADRANGLE
RK



ELEVATION TINTS

FEET	TINT
165	Lightest tint
485	Light tint
985	Medium tint
165	Darkest tint

RELIABILITY OF THIS GRAPHIC
(as determined by standard practices)

PLOTTING ACCURACY 90% ASSURANCE	AREA I	AREA II	AREA III
	within 70 ft. 70 ft. 80 ft.	within 80 ft. 80 ft. 80 ft.	within 90 ft. 90 ft. 90 ft.
GRAPHIC FEATURE	DATE OF INFORMATION		
	AREA I	AREA II	AREA III
All other features	1995 1992 1991		

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

NOTES
Powerlines are shown except within populated place limits. Other obstructions are shown, if they are 150 feet or more above ground level. See caution note.
On this graphic a tone is considered as being 8 feet (2.5 meters) in width.
BOUNDARY REPRESENTATION IS NOT NECESSARILY AUTHORITATIVE.
ALIGNMENT OF ALL BOUNDARIES IS APPROXIMATE.
Road classification should be referred to with caution.

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