SERIES	1501 AIR
SHEET	NN 37-7
EDITION	2

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 — Dubtsy

ROADS
- Dual highway — 4 LANES DUAL
- All weather,hard surface
  - More than two lanes wide — 3 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
- Track; trail
- Route marker — 50

RAILROADS — Single track / Multiple track
- Normal gauge 5' (1.52m)
- Narrow gauge

BOUNDARIES
- International
- First-order administrative division
- Reservation

OTHER FEATURES
- Landmark
- Horizontal control point
- Levee; Burial mound
- Mine
- Dam or lock; Sand
- Dunes: Crescent; Lateral; Ripple

VEGETATION
- Woods; Scattered trees; Orchard

HYDROGRAPHY
- Disappearing stream; Well: Perennial; Intermittent
- Intermittent streams; Single; Double line
- Land subject to inundation; Swamp or marsh
- Intermittent lake; Dry lake

TERRAIN ELEVATIONS
- Spot elevation: normal; critical — .113 .535
- HIGHEST KNOWN elevation is 1001 feet at the following coordinates:
  - Geographic — 53°00'N, 36°40'E
  - Grid — CU4375

AERODROMES (Military or Civil) — EDNA/50/S 725
- Runway pattern known
  - 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

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

CONTROLLED AIRSPACE — CONUS ADIZ
- ADIZ

VISUAL AIDS AND OBSTRUCTIONS
- Obstruction — 1108 (260)
  - 1108-Elevation of obstruction top, above sea level.
  - (260)-Elevation of obstruction top, above ground level.
- Group obstruction
- Radio facility obstruction
- Power transmission line
- Visual ground sign — M
- 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 NIMA Aeronautical Chart Updating Manual or MOD (U.K.) Aeronautical Chart Amendment document, for other chart revision information.

LINES OF EQUAL MAGNETIC VARIATION FOR 2000
(Annual rate of change 3' increase)

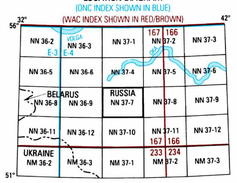
ATTENTION

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.).

EXAMPLE: 12,500 feet — 12 5

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



SCALE 1:250,000
MTSENK, RUSSIA

SERIES	1501 AIR
SHEET	NN 37-7
EDITION	2

SERIES 1501 COMPANION SHEET IS EDITION 1

Prepared and published by the National Imagery and Mapping Agency. Compiled October 2000.
MAP INFORMATION AS OF 1999.

ELEVATIONS IN FEET

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	1050	457
100	31	1000	305

THE DATUM AND ELLIPSOID FOR THIS AREA HAVE BEEN CHANGED. FOR ADJACENT AND OVERLAPPING SHEETS, THERE ARE NO SIGNIFICANT CHANGES IN GRID OR GEOGRAPHIC VALUES AT THIS SCALE.

SAMPLE 10,000 METER GRID SQUARE

100,000m SQUARE IDENTIFICATION
See Body of Map
GRID ZONE DESIGNATION
37U

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. Estimate lengths (1,000 meters) from grid line to point. — 1 2
3. Read large number labeling the HORIZONTAL grid line below point. Estimate lengths (1,000 meters) from grid line to point. — 3 4

Example: AB1234

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

Example: 37UAB1234

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 15 Nautical Miles

CONTOUR INTERVAL APPROXIMATELY 165 FEET

BLUE NUMBERED LINES INDICATE THE 10,000 METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 37, WORLD GEODETIC SYSTEM 1984, ELLIPSOID

COORDINATE CONVERSION WGS 84 TO ED 50
Grid: Add 21mE., Add 182mN.
Geographic: Add 1.4"Long., Add 1.8Lat.

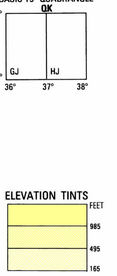
COORDINATE CONVERSION WGS 84 TO WGS 72
Grid: Subtract 10mE., Subtract 4mN.
Geographic: Subtract 0.6"Long., Subtract 0.1 Lat.

USERS SHOULD REFER CORRECTIONS, COMMENTS, ADDITIONS, AND COMMENTS TO THE NIMA OPERRATIONAL HELP DESK: 1-800-455-0899; COMMERCIAL 314-263-4884; DSN 693-4884; OR WRITE TO: DIRECTOR, NATIONAL IMAGERY AND MAPPING AGENCY, ATTN.: ES, MAIL STOP L-88, 4600 SANGAMORE ROAD, BETHESDA, MD 20816-5003.

ELEVATIONS IN FEET

GLOSSARY
- Oblast ..... first-order administrative division
- Ozera ..... lakes
- Ozero ..... lake
- Stantsiya ..... station

ELEVATION TINTS



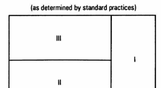
GEOREF
BASIC 15° QUADRANGLE
QK

Printed by NIMA 05-01

NOTES

Powerlines are shown except within populated place tints.
Other obstructions are shown if they are 150 feet or more above ground level. (See caution note)
On this graphic a lane is generally show as being 8 feet (2.5 meters) in width.
THE REPRESENTATION OF BOUNDARIES IS NOT NECESSARILY AUTHORITATIVE.
Road classification should be referred to with caution.
DEPICTION OF INTERNATIONAL BOUNDARIES HAS CHANGED SINCE THE LAST EDITION.
The number in parenthesis following a populated place indicates that more than one place is so named.

RELIABILITY OF THIS GRAPHIC
(as determined by standard practices)



PLOTTING ACCURACY 90% ASSURANCE	
Horizontal	within 425 ft.
Contours	within 85 ft.

GRAPHIC FEATURE	DATE OF INFORMATION		
	AREA I	AREA II	AREA III
All features	1999	1993	1992

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

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