

SERIES 1501 AIR  
SHEET NN 38-1  
EDITION 2

- POPULATED PLACES
- Over 100,000 **MOSKVA**
  - 50,000 to 100,000 **KLIMOVSKA**
  - 10,000 to 50,000 **Obukhovo**
  - 2,000 to 10,000 Kubinka
  - Less than 2,000 Dubtsk
- ROADS
- Dual highway **4 LINES DUAL**
  - All weather, hard surface **4 LINES**
  - More than two lanes wide **4 LINES**
  - Two lanes wide **4 LINES**
  - One lane wide **4 LINES**
  - All weather, loose or light surface **3 LINES**
  - More than two lanes wide **3 LINES**
  - Two lanes wide **3 LINES**
  - One lane wide **3 LINES**
  - Fair or dry weather, loose surface **3 LINES**
  - Cart track **3 LINES**
  - Footpath, trail **3 LINES**
  - Road marker **3 LINES**
- RAILROADS
- Normal gauge, single track 1.52m (5'0"): Double track **3 LINES**
  - Narrow gauge **3 LINES**
- BOUNDARIES
- International **3 LINES**
  - First-order administrative **3 LINES**
- OTHER FEATURES
- Mine or quarry **3 LINES**
  - Campsite, Ruins, Watermill **3 LINES**
  - School, Church, Landmark **3 LINES**
  - Mosque, Moslem shrine **3 LINES**
  - Small reservoir or cistern **3 LINES**
  - Well, Perennial, Intermittent, Spring **3 LINES**
  - Underground aqueduct with shafts **3 LINES**
  - Sabkha or Dry lake, Intermittent lake **3 LINES**
  - Single line intermittent stream, Wadi **3 LINES**
  - Marsh or swamp, Land subject to inundation **3 LINES**
- VEGETATION
- Woods, brushwood **3 LINES**
- TERRAIN ELEVATIONS
- Spot elevation, normal, critical **3 LINES**
  - HIGHEST KNOWN elevation is **794** feet at the following coordinates: Geographic: 56°08'N, 43°42'E Grid: MG1713

- AERODROMES (Military or Civil)
- Runway pattern known **EDNA/50's 725**
  - EDNA-Name **EDNA/50's 725**
  - 50-Length of longest runway to nearest hundreds of feet
  - 3-Soft or unimproved surface
  - U-Unimproved surface
  - 725-Elevation
  - Runway pattern unknown **EDNA/50's 725**
- HELIPORT/HELIPAD
- H**
- RADIO AIDS TO NAVIGATION
- VHF OMNI RANGE (VOR) **VOR**
  - VORTAC **VORTAC**
  - TACAN **TACAN**
  - VOR WITH DME **VOR**
  - Other facilities **VOR**
- RADIO FACILITIES
- RADIO RANGE, LF/MF **RNG HURN**
  - MULTIPLE RADIO FACILITIES **RNG HURN**
  - CONTROLLED AIRSPACE **CONUS ADIZ**
- VISUAL AIDS AND OBSTRUCTIONS
- Obstruction **1108**
  - 1108-Elevation of obstruction top, above sea level
  - (259)-Elevation of obstruction top, above ground level
  - Group obstruction **1108**
  - Radio facility obstruction **1108**
  - Power transmission line **1108**
  - Visual ground sign **M**
  - Aero light, Marine light **1108**

**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 MOD (U.K.) Aeronautical Chart Amendment document, for other chart revision information.

**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 features in each quadrangle, including terrain and obstructions (trees, towers, antennas, etc.).  
**EXAMPLE: 12,500 feet**  
**12<sup>5</sup>**

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

NO 37-9	NO 37-8	NO 37-7	NO 37-6	NO 37-5	NO 37-4	NO 37-3	NO 37-2	NO 37-1
NO 38-11	NO 38-10	NO 38-9	NO 38-8	NO 38-7	NO 38-6	NO 38-5	NO 38-4	NO 38-3
NO 38-12	NO 38-11	NO 38-10	NO 38-9	NO 38-8	NO 38-7	NO 38-6	NO 38-5	NO 38-4
NO 38-13	NO 38-12	NO 38-11	NO 38-10	NO 38-9	NO 38-8	NO 38-7	NO 38-6	NO 38-5

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.

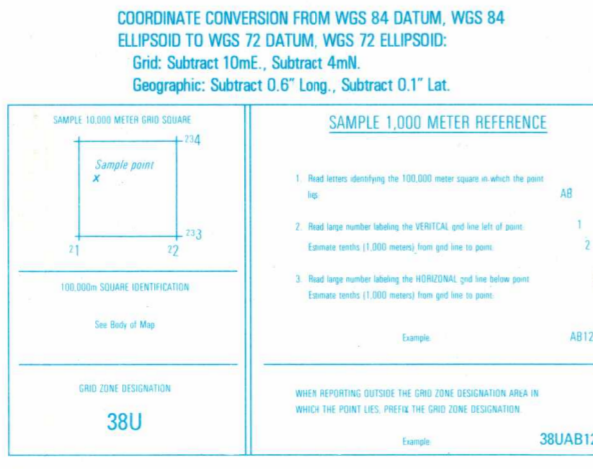
**CAUTION**  
Vertical obstructions, including powerlines, have been extracted from the most reliable sources available. However, there is no assurance that all are shown, or that their locations or heights are exact.

CONVERSION OF ELEVATIONS

FEET	METERS	FEET	METERS
1000	305	10000	3048
800	274	9000	2743
600	244	8000	2438
400	122	7000	2134
200	61	6000	1829
100	31	5000	1524
50	15	4000	1219
30	9	3000	914
20	6	2000	610
15	4	1500	457
10	3	1000	305

Prepared and published by the National Imagery and Mapping Agency, Compiled June 1997.  
Map information as of 1995.

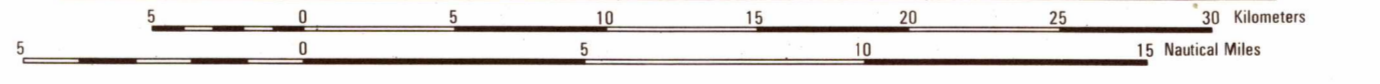
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ELEVATIONS IN FEET

**JOINT OPERATIONS GRAPHIC (AIR)**

SCALE 1:250,000



CONTOUR INTERVAL APPROXIMATELY 165 FEET

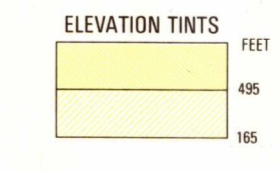
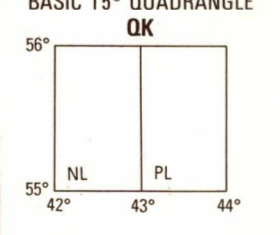
BLK NUMBERED LINES INDICATE THE 10,000 METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 38, WORLD GEODETIC SYSTEM 1984 DATUM AND ELLIPSOID.

USERS SHOULD REFER CONNECTIONS, ADDITIONS, AND COMMENTS TO THE NIMA CUSTOMER HELP DESK  
1-800-455-0889; COMMERCIAL: 1-314-260-6032; OR WRITE TO: ATTN: CDD, MAIL STOP J-52, NATIONAL IMAGERY AND MAPPING AGENCY, 4600 SANGAMORE ROAD, BETHESDA, MD 20815-5003.

ELEVATIONS IN FEET

- GLOSSARY**
- Gory mountains
  - Oblast - first-order administrative division
  - Ozero lake
  - Prud pond
  - Raz'yezd railroad siding
  - Stantsiya railroad station

GEOREF BASIC 15° QUADRANGLE OK



RELIABILITY OF THIS GRAPHIC (as determined by standard practices)

PLOTING ACCURACY	AREA BY ASSURANCE	
	AREA I	AREA II
Horizontal	within 45 m	within 45 m
Vertical	within 1.5 m	within 1.5 m
GRAPHIC FEATURE	DATE OF INFORMATION	
	AREA I	AREA II
All other features	1995	1995

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 200 feet or more above ground level. See caution note. On this graphic a line is generally considered as being 8 feet (2.5 meters) in width. BOUNDARY REPRESENTATION IS NOT NECESSARILY AUTHORITATIVE. Road classification should be referred to with caution.

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