

SERIES 1501 AIR SHEET NN 37-2 EDITION 2

- 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
  - Dual weather, hard surface 4 LANES
  - More than two lanes wide 4 LANES
  - Two lanes wide 4 LANES
  - One lane wide 4 LANES
  - All weather, loose or light surface 3 LANES
  - More than two lanes wide 3 LANES
  - Two lanes wide 3 LANES
  - One lane wide 3 LANES
  - Fair or dry weather, loose surface 3 LANES
  - Cart track 3 LANES
  - Footpath, trail 3 LANES
  - Route marker 3 LANES

- RAILROADS**
- Normal gauge, single track 1.44m (4'8 1/2") Double track
  - Narrow gauge

- BOUNDARIES**
- International
  - First-order administrative

- OTHER FEATURES**
- Mine or quarry
  - Campsite, Ruins, Watermill
  - School, Church, Landmark
  - Moscow, Muslim shrine
  - Small reservoir or cistern
  - Well, Perennial, Intermittent, Spring
  - Underground aqueduct with shafts
  - Sabkha or Dry lake, Intermittent lake
  - Single line intermittent stream, Wadi
  - Marsh or swamp, Land subject to inundation
  - Mound, Levee
  - Mudflat, Distorted surface
  - Sand, flat or rolling, Sand dunes
  - Horizontal control point

- VEGETATION**
- Woods, brushwood, Scattered trees
  - Orchard, vineyard, Scrub

- HYDROGRAPHY**
- Rocks, uncovering or wash
  - Exposed wreck
  - Limit of danger, Reef
  - Foreshore flat
  - Depth curve, Lighthouse

- TERRAIN ELEVATIONS**
- Spot elevation, normal, critical
  - HIGHEST KNOWN elevation in 817 feet at the following coordinates: Geographic: 55°00' N, 38°00' E. Grid: DB3612

- AERODROMES (Military or Civil)**
- Runway pattern known EDNA/50's 75
  - Field limits and runway pattern unknown

- HELIPORT**

- RADIO FACILITIES**
- VOR VORTAC
  - TACAN VOR/DME

- RADIO RANGE LF/MF**

- MULTIPLE RADIO FACILITIES**

- CONTROLLED AIRSPACE**
- ADIZ CONUS ADIZ

- VISUAL AIDS AND OBSTRUCTIONS**
- Obstruction 110m (250) feet at the following coordinates: Geographic: 55°00' N, 38°00' E. Grid: DB3612
  - Group obstruction
  - Radio facility obstruction
  - Power transmission line
  - Visual ground sign
  - Aero light, Marine light

- CAUTION**
- Vertical obstructions, including powerlines, have been omitted from this chart because they are not shown, or their locations or heights are exact.

- CAUTION**
- AIR INFORMATION CURRENT THROUGH 28 MAY 1997**
- 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 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 (towers, towers, antennas, etc.).

- EXAMPLE: 12,500 feet. 125**

- LOCATION DIAGRAM**
- The Representation of Boundaries is Not Necessarily Authoritative.
- ICWC INDEX SHOWN IN BLUE
- RUSSIA INDEX SHOWN IN RED/BROWN

- Prepared and published by the National Imagery and Mapping Agency, Compiled September 1989. Revised May 1997.

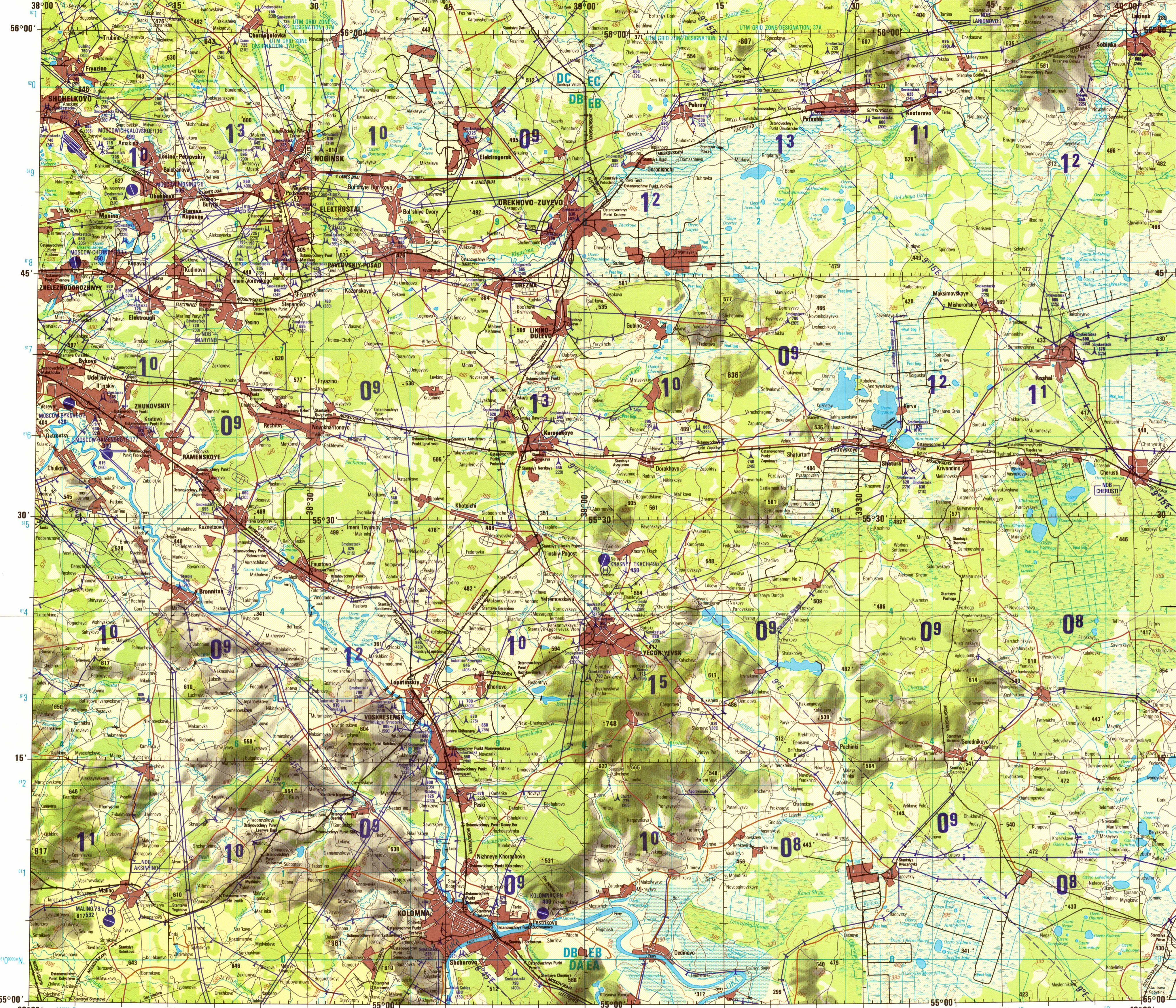
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- CONVERSION OF ELEVATIONS**
- | FEET | METERS |
|------|--------|
| 1000 | 305    |
| 900  | 274    |
| 800  | 244    |
| 700  | 213    |
| 600  | 183    |
| 500  | 152    |
| 400  | 122    |
| 300  | 91     |
| 200  | 61     |
| 100  | 31     |
| 100  | 31     |

- SCALE 1:250,000**
- OREKHOVO-ZUYEVO, RUSSIA**

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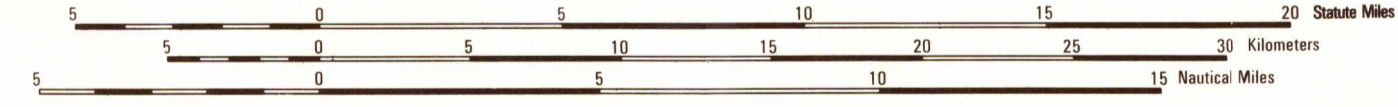
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ELEVATIONS IN FEET

**JOINT OPERATIONS GRAPHIC (AIR)**

SCALE 1:250,000



CONTOUR INTERVAL APPROXIMATELY 70 FEET

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

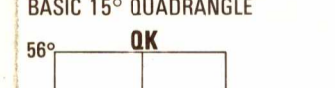
COORDINATE CONVERSION FROM WGS 84 DATUM, WGS 84 ELLIPSOID TO WGS 72 DATUM, WGS 72 ELLIPSOID:  
 Grid: Subtract 10m E., Subtract 4m N.  
 Geographic: Subtract 0' Long., Subtract 1' Lat.

COORDINATE CONVERSION FROM WGS 84 DATUM, WGS 84 ELLIPSOID TO ED 50 DATUM, INTERNATIONAL ELLIPSOID:  
 Grid: Add 21m E., Add 182m N.  
 Geographic: Add 1.2' Long., Add 1.6' Lat.

USERS SHOULD REFER TO CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NIMA CUSTOMER HELP DESK: 1-800-455-0898; COMMERCIAL: 1-314-280-1236; USN 480-1236; OR WRITE TO: DIRECTOR, NATIONAL IMAGERY AND MAPPING AGENCY, ATTN: CD, 8613 LEE HIGHWAY, FARMAX, VA 22031-2137.

ELEVATIONS IN FEET

GEOREF BASIC 15° QUADRANGLE



LITHOGRAPHED BY NMA 12-97

**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. The representation of boundaries has changed since the last edition. Names and boundaries of administrative divisions in Russia are not available. Road classification should be referred to with caution.

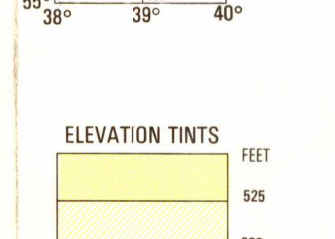
**RELIABILITY OF THIS GRAPHIC**

PLACING ACCURACY (AS ASSURED)	
Horizontal Centers	Within 495 feet
Vertical Centers	Within 35 feet

GRAPHIC FEATURE	DATE OF INFORMATION
Centers	1989
All other features	1984-1995

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

**ELEVATION TINTS**



**GLOSSARY**

- Kanal Ostanovochnyy Punkt: canal, railroad stop
- Duro: Duro
- Stantsiya: station
- Vodokhranitel'noye: reservoir

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