

SERIES 1501 AIR SHEET NO 37-9 EDITION 1

- POPULATED PLACES**
- Over 100,000
  - 50,000 to 100,000
  - 10,000 to 50,000
  - 2,000 to 10,000
  - Less than 2,000
- ROADS**
- Dual highway
  - All weather, hard surface
  - More than two lanes wide
  - Two lanes wide
  - One lane wide
  - All weather, loose or light surface
  - More than two lanes wide
  - Two lanes wide
  - One lane wide
  - Fair or dry weather, loose surface
  - Cart track
  - Footpath, trail
  - Road marker
- RAILROADS**
- Normal gauge, single track 1.52m (5'0")
  - Narrow gauge
- BOUNDARIES**
- International
  - First-order administrative
- OTHER FEATURES**
- Area Name
  - Mine or quarry
  - Campsite, Ruins, Watermill
  - School, Church, Landmark
  - Mosque, Moslem shrine
  - Small reservoir or cistern
  - Well, Perennial, Intermittent, Spring
  - Underground aqueduct with shafts
  - Saltlake 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
  - Peat cuttings, Scrub
- HYDROGRAPHY**
- Rocks, uncovering or awash
  - Exposed wreck
  - Limit of danger; Reef
  - Foreshore flat
  - Depth curve; Lighthouse
- TERRAIN ELEVATIONS**
- Spot elevation, normal; critical
  - HIGHEST KNOWN elevation is 722 feet at the following coordinates: Geographic: 57°49'N, 40°07'E
  - The accuracy of all spot elevations shown on the graphic is not within 100 feet.

- AERODROMES (Military or Civil)**
- Runway pattern known
  - EDNA-Name
  - 50-Length of longest runway to nearest hundreds of feet
  - Soft or unimproved surface
  - Unknown surface
  - 75-Elevation
  - Runway pattern unknown
- HELIPORT/HELIPAD**
- RADIO FACILITIES**
- VHF OMNI RANGE (VOR)
  - VORTAC
  - TACAN
  - VOR WITH DME
  - Other facilities
- CONTROLLED AIRSPACE**
- ADIZ**
- VISUAL AIDS AND OBSTRUCTIONS**
- Obstruction
  - 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 source available. However, there is no assurance that all are shown, or that their locations or heights are exact.

**CAUTION**

**AIR INFORMATION CURRENT THROUGH 25 AUGUST 1999**

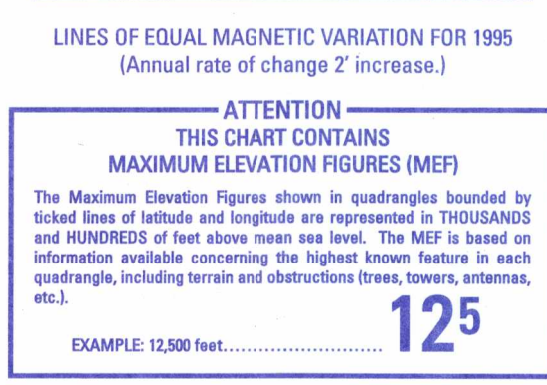
Consult NOTAMS and Flight Information Publications for the latest air information; the NIMA Aeronautical Chart Updating Manual or MOA (UK) Aeronautical Chart Amendment document, for other chart revision information.

**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 feature in each quadrangle, including terrain and obstructions (trees, towers, antennas, etc.).

EXAMPLE: 12,500 feet. **125**



**CONVERSION OF ELEVATIONS**

FEET	METERS	FEET	METERS
1000	305	10000	3048
900	274	9000	2743
800	244	8000	2438
700	213	7000	2133
600	183	6000	1828
500	152	5000	1524
400	122	4000	1219
300	91	3000	914
200	61	2000	609
100	31	1000	304
		100	31

**SCALE 1:250,000**

**KOSTROMA, RUSSIA**

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SERIES 1501 COMPANION SHEET IS EDITION 2

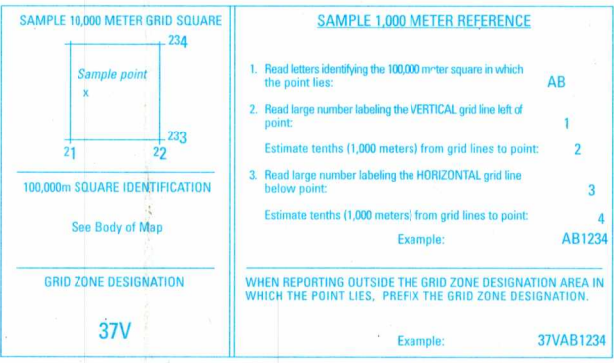


Prepared and published by the National Imagery and Mapping Agency. Compiled 1998.

**MAP INFORMATION AS OF 1996**

**COORDINATE CONVERSION WGS 84 TO WGS 82**  
Grid: Add 2cm E; Add 183m N.  
Geographic: Add 1.0" Long; Add 1.2" Lat.

**COORDINATE CONVERSION WGS 84 TO WGS 72**  
Grid: Subtract 9m E; Subtract 5m N.  
Geographic: Subtract 0.8" Long; Subtract 0.1" Lat.



**JOINT OPERATIONS GRAPHIC (AIR)**

SCALE 1:250,000

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

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0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

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

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

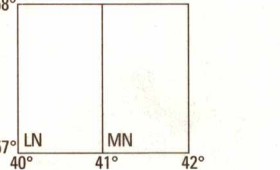
USERS SHOULD REFER CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NIMA CUSTOMER HELP DESK: 1-800-495-6899, COMMERCIAL: 1-301-296-6000, DSN: 486-4000. OR WRITE TO: DIRECTOR, NATIONAL IMAGERY AND MAPPING AGENCY, ATTN: CDD, MAIL STOP P-37, 4800 SANGAMORE ROAD, BETHESDA, MD 20816-5000.

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**GLOSSARY**

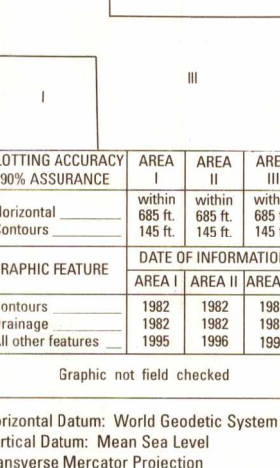
- Kanal..... canal
- Oblast..... first order administrative division
- Ozero..... lake
- Stantsiya..... railroad station
- Vodokhranilishche..... reservoir

**GEOREF BASIC 15° QUADRANGLE**



**RELIABILITY OF THIS GRAPHIC**

(as determined by standard practices)



Horizontal Datum: World Geodetic System 84  
Vertical Datum: Mean Sea Level  
Transverse Mercator Projection

Printed by the National Imagery and Mapping Agency. 2-00

**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.

On this graphic a lane is generally considered as being 8 feet (2.5 meters) in width.

ALIGNMENT OF ALL BOUNDARIES IS APPROXIMATE.

Road classification should be referred to with caution. In built-up areas only through routes are classified.

PLOTTING ACCURACY	AREA		
	AREA I	AREA II	AREA III
Horizontal Contours	within 165 ft. (50 m)	within 165 ft. (50 m)	within 165 ft. (50 m)
GRAPHIC FEATURE	DATE OF INFORMATION	AREA I	AREA II
Contour	1987	1987	1987
Drainage	1982	1982	1982
All other features	1995	1996	1998

Graphic not field checked

Horizontal Datum: World Geodetic System 84  
Vertical Datum: Mean Sea Level  
Transverse Mercator Projection

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