

SERIES 1501 AIR SHEET NO 38-12 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	Dubovskoye
2,000 to 10,000	Kubinka
Less than 2,000	Dubtsy

**ROADS**

Dual highway	4 LANES DUAL
All 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 1.52m (5'0")	Double track
Narrow gauge	

**BOUNDARIES**

International	
First-order administrative	

**OTHER FEATURES**

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

**VEGETATION**

Woods	
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**HYDROGRAPHY**

Rocks, uncovering or awash	
Exposed wreck	
Limit of danger, Reef	
Foreshore flat	
Depth curve, Lighthouse	

**TERRAIN ELEVATIONS**

Spot elevation, normal, critical	648 840
HIGHEST KNOWN elevation is 823 feet at the following coordinates:	
Geographic	56°04'N, 47°08'E
Grid	PH5316

**AERODROMES (Military or Civil)**

EDNA/50's	725
Runway pattern known	725
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**

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**RADIO FACILITIES**

VHF OMNI RANGE (VOR)	
VORTAC	
TACAN	
VOR with DME	
Other facilities	

**CONTROLLED AIRSPACE**

ADIZ	CONUS ADIZ
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**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	M
Aero light, Marine light	

**CAUTION**

Vertical obstructions, including powerlines, have been extracted from the relief picture and are shown in blue. However, there is no assurance that all are shown, or that their locations or heights are exact.

**CAUTION**

**AIR INFORMATION CURRENT THROUGH 10 JANUARY 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.

**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**

**LOCATION DIAGRAM**

(MAG INDEX SHOWN IN BLUE)

NO 38-1	NO 38-2	NO 38-3	NO 38-4	NO 38-5
NO 38-6	NO 38-7	NO 38-8	NO 38-9	NO 38-10
NO 38-11	NO 38-12	NO 38-13	NO 38-14	NO 38-15
NO 38-16	NO 38-17	NO 38-18	NO 38-19	NO 38-20

(MAG INDEX SHOWN IN RED/BROWN)

NO 38-1	NO 38-2	NO 38-3	NO 38-4	NO 38-5
NO 38-6	NO 38-7	NO 38-8	NO 38-9	NO 38-10
NO 38-11	NO 38-12	NO 38-13	NO 38-14	NO 38-15
NO 38-16	NO 38-17	NO 38-18	NO 38-19	NO 38-20

**SCALE 1:250,000**

**CHEBOKSARY, RUSSIA**

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**CONVERSION OF ELEVATIONS**

FEET	METERS	FEET	METERS
1000	305	10000	3048
900	274	8000	2438
800	244	7000	2138
700	213	6000	1829
600	183	5000	1524
500	152	4000	1219
400	122	3000	914
300	91	2000	610
200	61	1500	457
150	46	1000	305
100	31		

**SAMPLE 1,000 METER GRID SQUARE**

100,000m SQUARE IDENTIFICATION

See Body of Map

**SAMPLE 1,000 METER REFERENCE**

1. Read letters identifying the 100,000-meter square in which the point lies: A18

2. Read large number following the vertical grid line to the left of the point. Estimate tenths (1,000 meters) from grid lines to point. 22

3. Read large number following the horizontal grid line below the point. Estimate tenths (1,000 meters) from grid lines to point. 3

Example: A18223

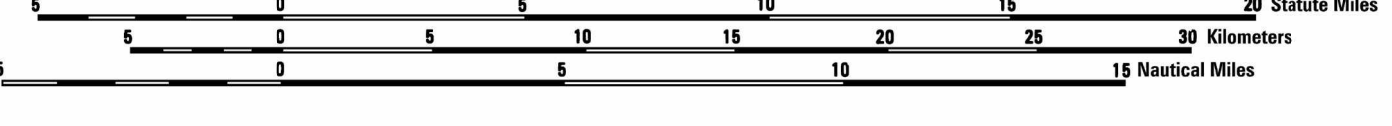
WHEN REPORTING OUTSIDE THE GRID ZONE DESIGNATION AREA IN WHICH THE POINT LIES, PREFIX THE GRID ZONE DESIGNATION.

Example: 38VA81234

ELEVATIONS IN FEET

**JOINT OPERATIONS GRAPHIC (AIR)**

SCALE 1:250,000



CONTOUR INTERVAL APPROXIMATELY 85 FEET

BLUE NUMBERED LINES INDICATE THE 10,000 METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 38, WORLD GEODETIC SYSTEM 1984 ELLIPSOID

COORDINATE CONVERSION WAS 84 / NAD 83 TO NAD 27  
Grid: Add 49m E, Subtract 200m N  
Geographic: Subtract 0.00" Long, Add 0.1" Lat.

USERS SHOULD REFER CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NIMA CUSTOMER HELP DESK 1-800-455-0899, COMMERCIAL 314-260-5032, DSN 496-5032, OR WRITE TO: DIRECTOR, NATIONAL IMAGERY AND MAPPING AGENCY, ATTN: CDD, MAIL STOP P-37, 4600 SANGAMORE ROAD, BETHESDA, MD 20818-3033

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**GEOREF BASIC 15° QUADRANGLE**

RK

BM CM

**RELIABILITY OF THIS GRAPHIC**

(as determined by standard practice)

PLOTTING ACCURACY 90% ASSURANCE	AREA	
	AREA I	AREA II
Horizontal	within 425 ft.	within 100 ft.
Contours	within 100 ft.	within 100 ft.
GRAPHIC FEATURE	DATE OF INFORMATION	
	AREA I	AREA II
Man-made features	1995	1998
Vegetation	1995	1995
Contours	1991	1991
All other features	1995	1998
Graphic not field checked.		
Horizontal Datum: World Geodetic System 1984 Vertical Datum: Mean Sea Level Transverse Mercator Projection		

**GLOSSARY**

Oblast..... first-order administrative division

Ozero..... lake

Respublika..... first-order administrative division

Vodostroitel'nyy..... reservoir

**ELEVATION TINTS**

FEET	
405	
805	

**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 lane is generally considered as being 8 feet (2.5 meters) in width.

THE REPRESENTATION OF BOUNDARIES IS NOT NECESSARILY AUTHORITY.

ALIGNMENT OF ALL BOUNDARIES IS APPROXIMATE.

Road classification should be referred to with caution.

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