

SERIES 1501 AIR SHEET NO 37-12 EDITION 3

POPULATED PLACES

Over 100,000 **MOSKVA**

50,000 to 100,000 **KUMERTAU**

10,000 to 50,000 **Okha**

2,000 to 10,000 **Kuva**

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 1.44m (4'8 1/2") Double track **FC-LH**

Narrow gauge **FC-LH**

BOUNDARIES

International **FC-LH**

First-order administrative **FC-LH**

OTHER FEATURES

Mine or quarry **FC-LH**

Campsite; Ruins; Watermill **FC-LH**

School; Church; Landmark **FC-LH**

Mosque; Masonic shrine **FC-LH**

Small reservoir or cistern **FC-LH**

Well; Panemal; Intermittent; Spring **FC-LH**

Underground aqueduct with shafts **FC-LH**

Sapka or Dry lake; Intermittent lake **FC-LH**

Single line intermittent stream; Wadi **FC-LH**

Marsh or swamp; Land subject to inundation **FC-LH**

Mound; Level **FC-LH**

Mudflat; Distorted surface **FC-LH**

Sand, flat or rolling; Sand dunes **FC-LH**

Horizontal control point **FC-LH**

VEGETATION

Woods; brushwood; Scattered trees **NONE**

Oakland; vineyard; Scrub **NONE**

HYDROGRAPHY

Rocks, uncovering or awash **FC-LH**

Exposed wreck **FC-LH**

Limit of danger; Reef **FC-LH**

Foreshore flat **FC-LH**

Depth curve; Lighthouse **FC-LH**

TERRAIN ELEVATIONS

Spot elevation, normal; critical **FC-LH**

HIGHEST KNOWN elevation is **814** feet at the following coordinates: Geographic: **56°24' N, 40°08' E** Grid: **0814**

AERODROMES (Military or Civil)

Runway pattern known **EDNAD01**

Field limits and runway pattern unknown **FC-LH**

RADIO FACILITIES

VOR VORTAC **FC-LH**

TACAN VORTAC **FC-LH**

RADIO RANGE LF/MF **FC-LH**

MULTIPLE RADIO FACILITIES **FC-LH**

CONTROLLED AIRSPACE

AZ **FC-LH**

VISUAL AIDS AND OBSTRUCTIONS

Obstructions **FC-LH**

1100 - Elevation of obstruction top, above sea level (ASL) **FC-LH**

1250 - Elevation of obstruction top, above ground level (AGL) **FC-LH**

Group obstruction **FC-LH**

Radio facility obstruction **FC-LH**

Power transmission line **FC-LH**

Visual ground sign **FC-LH**

Aero light; Marine light **FC-LH**

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 24 MARCH 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.

LINE 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 (trees, towers, antennas, etc.).

EXAMPLE: 12,500 feet **12⁵**

LOCATION DIAGRAM

(WAC INDEX SHOWN IN BLUE)

(WAC INDEX SHOWN IN RED/BROWN)

NO 37-1	NO 37-2	NO 37-3	NO 37-4	NO 37-5	NO 37-6	NO 37-7	NO 37-8	NO 37-9	NO 37-10	NO 37-11	NO 37-12	NO 37-13	NO 37-14	NO 37-15	NO 37-16	NO 37-17	NO 37-18	NO 37-19	NO 37-20
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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	1500	457
100	31	1000	305

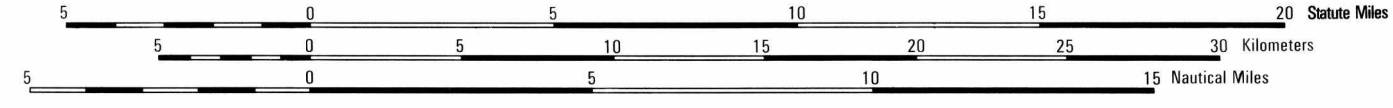
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ELEVATIONS IN FEET

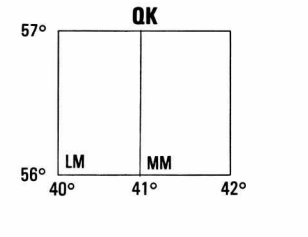
JOINT OPERATIONS GRAPHIC (AIR)

SCALE 1:250,000



ELEVATIONS IN FEET

GEOREF BASIC 15° QUADRANGLE **OK**



GLOSSARY

Boloto (swamp) marshland
 Ostanovochnyy Punkt (OP) railroad stop
 Darya lake
 Platforma platform
 Post post
 RUC road
 Stanitsa railroad siding
 Stanitsa station

RELIABILITY OF THIS GRAPHIC

PLOTTING ACCURACY 90% ASSURANCE (as determined by standard practices)

Horizontal: within 600 ft, within 75 ft.

Vertical: within 100 ft.

GRAPHIC FEATURE Date of Information

Contours: All other features: 1997, 1992 to 1996

Horizontal Datum: World Geodetic System
 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.

Road classification should be referred to with caution. THE REPRESENTATION OF BOUNDARIES IS NOT NECESSARILY AUTHORITY.

Direction of international boundaries has changed since the last edition.

Names and boundaries of administrative divisions in Russia are not available.

LITHOGRAPHED BY NIMA 8-97
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EXAMPLE 1,000 METER GRID SQUARE

Sample point **84**

1000m SQUARE IDENTIFICATION

See Body of Map

GRID ZONE DESIGNATION

37V

EXAMPLE 1,000 METER REFERENCE

- Read square identifying the 100,000 meter square in which the point lies. **A8**
- Read top number (along the VERTICAL grid line) of point. **1**
- Read right number (along the HORIZONTAL grid line) of point. **2**
- Read top number (along the HORIZONTAL grid line) of point. **3**
- Read right number (along the VERTICAL grid line) of point. **4**

Example: **AB1234**

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

Example: **37VAB1234**

CONTOUR INTERVAL APPROXIMATELY 85 FEET

BLUE NUMBERED LINES INDICATE THE 10,000 METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 31, WORLD GEODETIC SYSTEM 1984 ELLIPSOID

COORDINATE CONVERSION FROM WGS 84 DATUM, WGS 84 ELLIPSOID TO WGS 72 DATUM, WGS 72 ELLIPSOID:
 Grid Subtract 8m E, Subtract 5m N.
 Geographic Subtract 4" Long, Subtract 1" Lat.

COORDINATE CONVERSION FROM WGS 84 DATUM, WGS 84 ELLIPSOID TO ED 50 DATUM, INTERNATIONAL ELLIPSOID:
 Grid Add 22m E, Add 182m N.
 Geographic Add 1'0" Long, Add 1'4" Lat.

USERS SHOULD REFER CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NGA OPERATIONAL HELP DESK: 1-800-455-0099 COMMERCIAL 214-261-8846 DSN 693-4864 OR WRITE TO DIRECTOR, NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY, ATTN: ES, MAIL STOP 168, 4800 SANGAMORE ROAD, BETHESDA, MD 20815-5002.

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