

SERIES 1501 AIR SHEET NN 44-1 EDITION 1
SERIES 1501 COMPANION SHEET IS EDITION 1

- POPULATED PLACES**
 - Over 100,000 **ALMATY**
 - 50,000-100,000 **BALQASH**
 - 10,000-50,000 **Tatarsk**
 - 2,000-10,000 **Grigor'yevka**
 - Less than 2,000 **Samy**
- ROADS**
 - Dual highway **4 LANES DUAL**
 - All weather, hard surface **4 LANES**
 - More than two lanes wide
 - Two lanes wide
 - One lane wide
 - All weather, loose or light surface **2 LANES**
 - More than two lanes wide
 - Two lanes wide
 - One lane wide
 - Fair or dry weather, loose surface
 - Cart track
 - Footpath, trail
- RAILROADS**
 - Normal gauge 1.52m (5')
 - Station position known unknown
 - Narrow gauge
- BOUNDARIES**
 - International
 - First-order administrative division
- VEGETATION**
 - Woods
 - Orchard, plantations, vineyards
- OTHER FEATURES**
 - Area name KNOWN
 - School, Church, Mosque
 - Landmark feature or object
 - Task, Well, Wall, Fence
 - Mut. kraal, Pass, Mine or quarry
 - Horizontal control point
 - Astronomic position
 - Sand, Distorted surface
 - Dunes: Crescent, Lateral, Ripple
 - Dunes: Star, Transverse, Mound
 - Mound, Cliff, Levee
- HYDROGRAPHY**
 - Underground aqueduct with shafts
 - Small reservoir, Dry lake
 - Sekhka (Kavir), Intermittent lake
 - Intermittent streams: Single, Double line
 - Well: Perennial, Intermittent, Disappearing stream
 - Spring, fountain, cistern, Dam, Salt evaporator
 - Wadi: Land subject to inundation
 - Rice paddy, Marsh or swamp
- TERRAIN ELEVATIONS**
 - Spot elevation: Normal, Critical
 - HIGHEST KNOWN elevation is **545** feet at the following coordinates: 55°10'N, 79°00'E
 - Grid LG 7216
- AERODROMES (Military or Civil)**
 - Runway pattern known EDNA/50's 725
 - EDNA-Name
 - 50-Length of longest runway to nearest hundreds of feet
 - Soft or unimproved surface
 - Unknown surface
 - 725-Elevation
 - Runway pattern unknown
- HELIPORT/HELIPAD**
- RADIO FACILITIES**
 - RADIO RANGE LF/MF
 - MULTIPLE RADIO FACILITIES
- CONTROLLED AIRSPACE**
 - ADIZ
- VISUAL AIDS AND OBSTRUCTIONS**
 - Obstruction 1108 2559
 - 1108-Elevation of obstruction top, above sea level
 - (2559)-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 sources available. However, there is an occasional possibility of error shown, or that their locations or heights are exact.
- CAUTION**
 - AIR INFORMATION CURRENT THROUGH 22 MAY 1997
 - Consult NOTAMS and Flight Information Publications for the latest information; the 1501 Aeronautical Chart Issuance Manual and Aeronautical Information Manual for the latest information.
- LINE OF EQUAL MAGNETIC VARIATION FOR 1995**
(Annual rate of change 2' increase Easterly)
- 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.).
 - 125**
 - EXAMPLE: 12,500 feet
- LOCATION DIAGRAM**
(ICN INDEX SHOWN IN BLUE)
(WAC INDEX SHOWN IN RED/BROWN)

Prepared and published by the National Imagery and Mapping Agency, Compiled August 1996.

MAP INFORMATION AS OF 1996



COORDINATE CONVERSION FROM WGS 84 TO WGS 72
Grid: Subtract 10m E, Subtract 4.0m N
Geographic: Subtract 0° Long, Subtract 0.1° Lat.

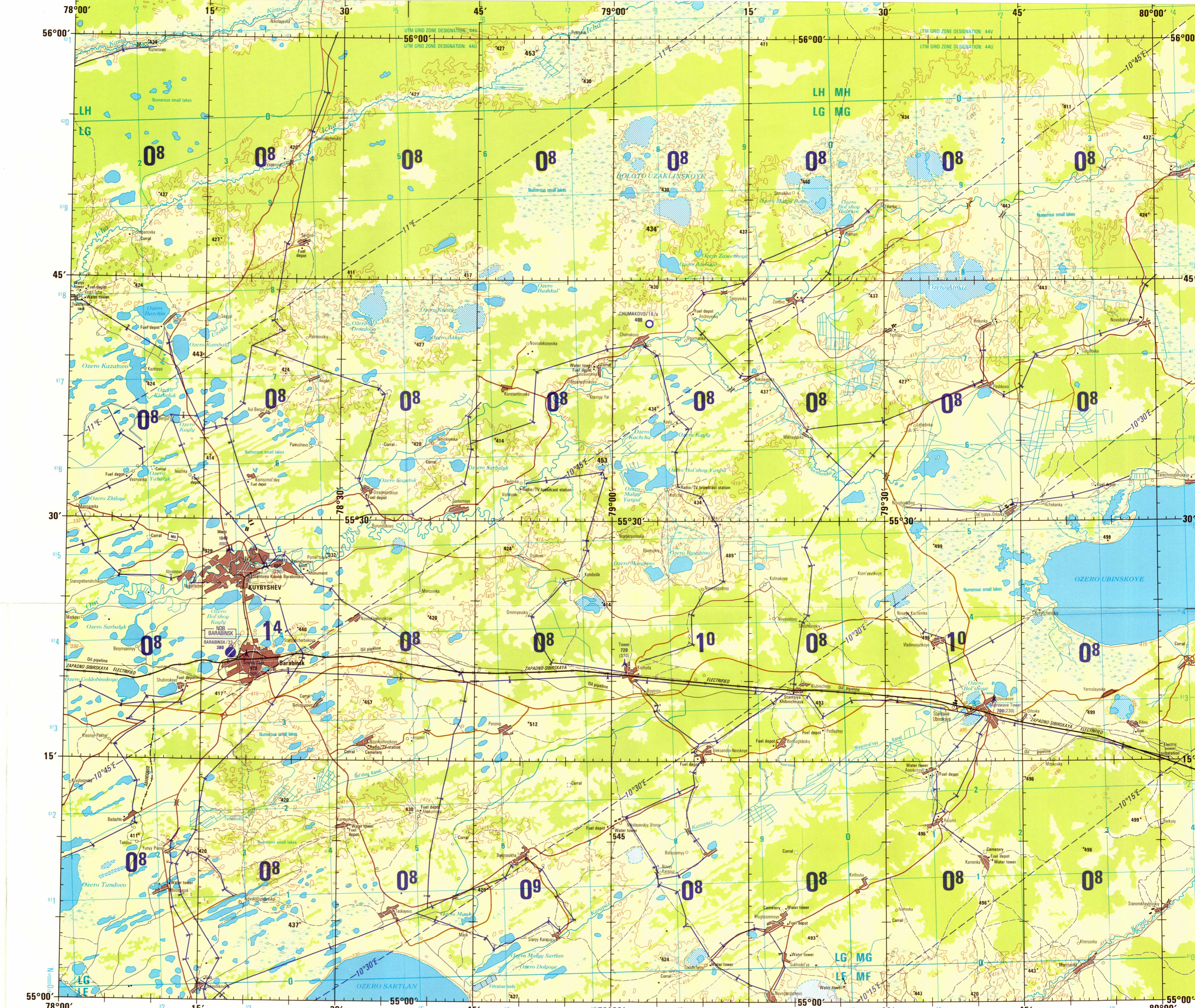
CONVERSION OF ELEVATIONS

FEET	METERS	FEET	METERS
1000	305	10000	3048
500	152	5000	1524
200	61	2000	610
100	31	1000	305

SCALE: 1:250,000
BARABINSK, RUSSIA

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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 44, WORLD GEODETIC SYSTEM 1984 ELLIPSOID.

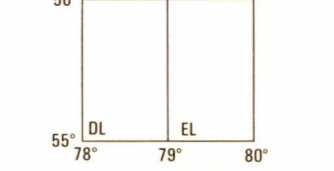
USERS SHOULD REFER CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NIMA CUSTOMER HELP DESK: 1-800-455-0088 COMMERCIAL 1-314-260-6032; DSN 480-9532; OR WRITE TO: ATTN: CDD, MAIL STOP P-37, NATIONAL IMAGERY AND MAPPING AGENCY, 4600 SANGHAM ROAD, BETHESDA, MD 20818-5003

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GLOSSARY

Boloto	swamp
Kanal	canal
Magistralnyy Kanal	canal
Ozero	lake
Stantsiya	railroad station

GEOREF BASIC 15° QUADRANGLE TK



ELEVATION TINTS

FEET
495
165

RELIABILITY OF THIS GRAPHIC
(as determined by standard practices)



PLOTTING ACCURACY 90% ASSURANCE

DATE OF INFORMATION	AREA I	AREA II	AREA III
1988	425 ft	425 ft	425 ft
1989	165 ft	165 ft	165 ft
1994	165 ft	165 ft	165 ft
1995	165 ft	165 ft	165 ft

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 line is generally considered as being 8 feet (2.5 meters) in width. Names for symbolized populated places are omitted where information is not available or where density of detail does not permit their inclusion.
The representation of boundaries is not necessarily authoritative. NAMES AND BOUNDARIES OF ADMINISTRATIVE DIVISIONS IN RUSSIA ARE NOT AVAILABLE.

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

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