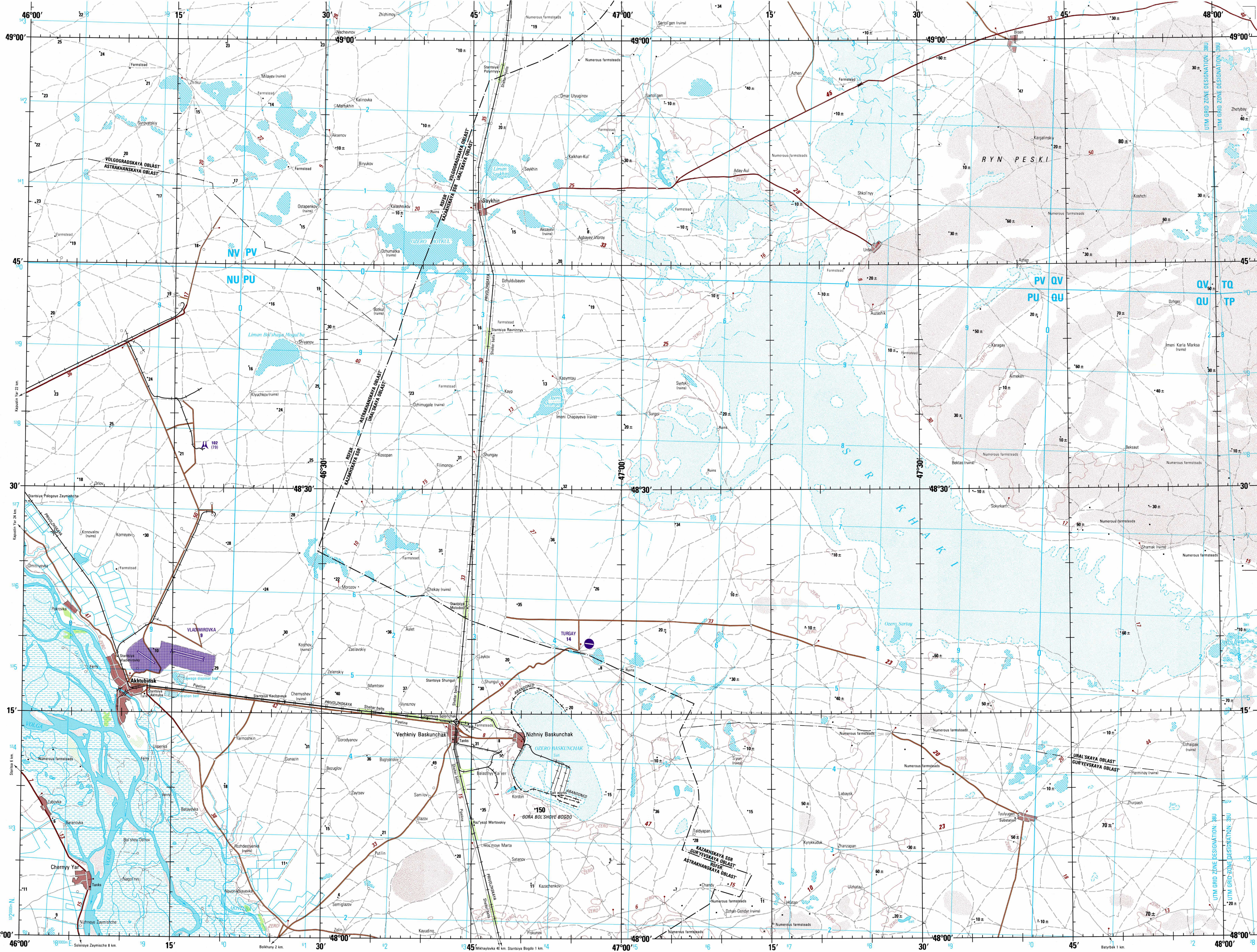


SERIES 1501  
SHEET NM 38-12  
EDITION 2

- 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
  - Track or trail
  - Route marker
- RAILROADS**
- Normal gauge 1.52m (5')
  - Narrow gauge
- BOUNDARIES**
- International
  - First-order administrative division
  - Second-order administrative division
  - Reservation
- OTHER FEATURES**
- Lighthouse
  - Horizontal control point
  - Levee; Burial mound
  - Mine
  - Dam or lock; Sand
  - Dunes; Crescent; Lateral; Ripple
- VEGETATION**
- Woods
  - Orchard or vineyard
- HYDROGRAPHY**
- Well; Perennial; Intermittent
  - Intermittent streams: Single; Double line
  - Dry lake; Swamp or marsh
  - Intermittent lake; Land subject to inundation
- TERRAIN ELEVATIONS**
- Spot elevation; normal; critical
  - HIGHEST KNOWN elevation is 150 meters at the following coordinates:  
Geographic: 48°09'N 46°51'E  
Grid: PU3854  
Following elevation value indicates accuracy is not within 30 meters.
- AERODROMES (Military or Civil)**
- EDNA: 221
  - Field limits with runway pattern
  - EDNA Name: 221 Elevation
  - Field limits, with runway pattern unknown
  - Field limits unknown, with runway pattern
  - Field limits and runway pattern unknown
- HELIPORT**
- VISUAL AIDS AND OBSTRUCTIONS**
- Obstruction
  - 338-Elevation of obstruction top, above sea level
  - 1791-Elevation of obstruction top, above ground level
  - Group obstruction
  - Radio facility obstruction
  - Power transmission line



MAGNETIC DECLINATION FOR 1980 IS 7°52' (130 MILS) EASTERLY OVER THE ENTIRE AREA.

**LOCATION DIAGRAM**  
(GRID INDEX SHOWN IN RED/BROWN)  
(WAC INDEX SHOWN IN RED/BROWN)

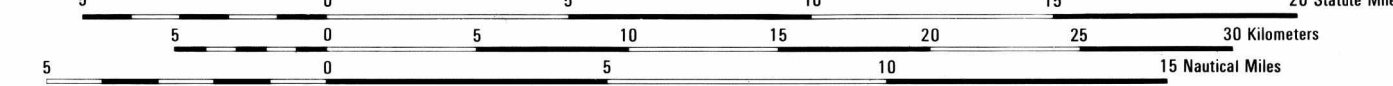
NM 38-4	NM 38-5	NM 38-6	NM 38-7	NM 38-8	NM 38-9	NM 38-10	NM 38-11	NM 38-12
NL 38-1	NL 38-2	NL 38-3	NL 38-4	NL 38-5	NL 38-6	NL 38-7	NL 38-8	NL 38-9

Prepared and published by the Defense Mapping Agency  
Hydrographic/Topographic Center, Washington, D. C.  
Compiled in 1985.

ELEVATIONS IN METERS

**JOINT OPERATIONS GRAPHIC**

SCALE 1:250,000

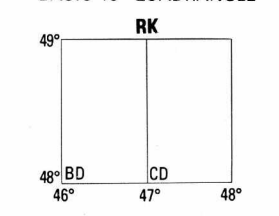


CONTOUR INTERVAL 100 METERS

**GLOSSARY**

- Grid
- Liman
- Obast
- Ozero
- Raz'yezd
- R.S.F.S.R.
- Sor Khaki
- S.S.R.
- Stantsiya
- mountain
- lagoon
- second-order administrative division
- lake
- passing siding
- first-order administrative division
- salt marshes
- first-order administrative division station

**GEOREF BASIC 15' QUADRANGLE**



**RELIABILITY OF THIS GRAPHIC**

Compiled from best available source materials.

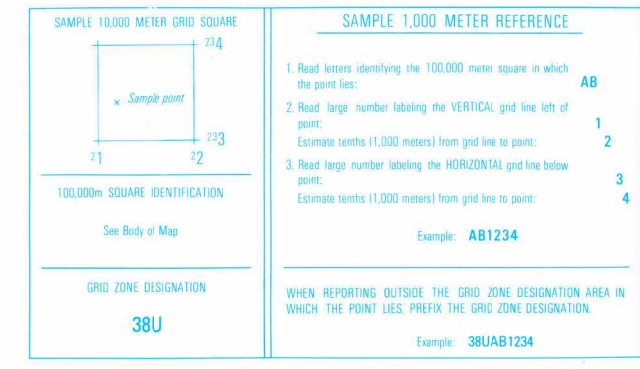
Horizontal Datum: World Geodetic System  
Vertical Datum: Mean Sea Level  
Transverse Mercator Projection

**NOTES**

Only obstructions 61 meters or more above ground level are shown.  
Powerline information and obstructions have been extracted from the most reliable source available. However, there is no assurance that all powerlines and obstructions are shown or that their locations and heights are correct.  
On this graphic a lane is generally considered as being 2.5 meters (8 feet) in width.  
Road classification should be referred to with caution.  
Figures along roads indicate approximate distances in kilometers.  
ALIGNMENT OF ALL BOUNDARIES IS APPROXIMATE

**CONVERSION OF ELEVATIONS**

METERS	FEET	METERS	FEET
1000	3281	10000	32808
900	2953	9000	29528
800	2625	8000	26247
700	2297	7000	22966
600	1969	6000	19685
500	1640	5000	16404
400	1312	4000	13123
300	984	3000	9842
200	656	2000	6562
150	492	1500	4921
100	328	1000	3281



SCALE 1:250,000  
AKHTUBINSK, U.S.S.R.

SERIES 1501  
SHEET NM 38-12  
EDITION 2

NSN 7643014047460  
NGA Ref No. 1501NMM3812