

Land Info offers a variety of digital topographic map & nautical chart data and satellite imagery products of Kazakhstan including DEMs (Digital Elevation Models), bathymetry and vector layers such as contours, hydrology & transportation/roads. All data is delivered in industry standard file formats such as GeoTiff, NITF, ER Mapper .ecw, LizardTech MrSID .sid, JPG2000 .jp2, Idrisi .rst, ERDAS .img, ESRI .shp shapefile or .mdb GeoDatabase, AutoCAD .dxf or .dwg, MicroStation .dgn, MapInfo MIF/MID/TAB, USGS ASCII .dem, ARC ASCII GRID, DTED and .bil (other formats available upon request). All data includes customer choice of projection. Contact us for educational and volume purchase discounts. Please note that due to copyright restrictions some map products are only available in their original printed format.



Kazakhstan	
Land area .....	2,699,700 sq km
Water area .....	25,200 sq km
Total area .....	2,724,900 sq km
Land boundaries .....	12,185 km
Coastline .....	0
Lowest point .....	Vpadina Kaundy -132 m
Highest point .....	Khan Tangiri Shyngy 6,995 m

**Digital topographic maps available as DRGs (Digital Raster Graphics), vector layers and/or DEMs (Digital Elevation Models: 20m - 90m resolution):**

- Full coverage of Kazakhstan via 8,300 Russian military 1:50,000 topographic maps
- Full coverage of Kazakhstan via 2,148 Russian military 1:100,000 topographic maps
- Full coverage of Kazakhstan via 601 Russian military 1:200,000 topographic maps
- 55% coverage of Kazakhstan via 122 US NGA 1:250,000 JOG topographic maps
- Full coverage of Kazakhstan via 20 US 1:500,000 TPC aeronautical topographic maps
- Full coverage of Kazakhstan via 7 US 1:1,000,000 ONC aeronautical topographic maps

**Large-scale (detailed) city mapping available as DRGs (Digital Raster Graphics), vector layers and/or DEMs (Digital Elevation Models: 5m - 10m resolution):**

- Aktyubinsk – 1 Russian military 1:25,000 topographic City Plan map
- Aktyubinsk – 6 Russian military 1:10,000 topographic City Plan maps
- Alma-Ata (Almaty) – 1 Russian military 1:25,000 topographic City Plan map
- Alma-Ata (Almaty) – 9 Russian military 1:10,000 topographic City Plan maps
- Arkalyk – 1 Russian military 1:10,000 topographic City Plan map
- Arys – 1 Russian military 1:10,000 topographic City Plan map
- Ayaguz – 1 Russian military 1:10,000 topographic City Plan map
- Balkhash – 2 Russian military 1:10,000 topographic City Plan maps
- Chimkent – 2 Russian military 1:10,000 topographic City Plan maps
- Dzhambul – 6 Russian military 1:10,000 topographic City Plan maps
- Dzhezkazgan – 4 Russian military 1:10,000 topographic City Plan maps
- Ekibastuz – 4 Russian military 1:10,000 topographic City Plan maps
- Guryev (Atyrau) – 1 Russian military 1:10,000 topographic City Plan map
- Guryev (Atyrau) – 1 Russian military 1:25,000 topographic City Plan map

## Kazakhstan (continued)

Guryev (Atyrau) – 2 Russian military 1:10,000 topographic City Plan maps  
Kachar – 1 Russian military 1:10,000 topographic City Plan map  
Kapchagay – 2 Russian military 1:10,000 topographic City Plan maps  
Karaganda – 2 Russian military 1:25,000 topographic City Plan maps  
Kantau – 2 Russian military 1:10,000 topographic City Plan maps  
Kokchetav – 2 Russian military 1:10,000 topographic City Plan maps  
Kustanay – 6 Russian military 1:10,000 topographic City Plan maps  
Kzyl-Orda – 2 Russian military 1:10,000 topographic City Plan maps  
Leninogorsk – 2 Russian military 1:10,000 topographic City Plan maps  
Panfilov (Zharkent) – 1 Russian military 1:10,000 topographic City Plan map  
Pavlodar – 4 Russian military 1:10,000 topographic City Plan maps  
Petrovavlosk – 4 Russian military 1:10,000 topographic City Plan maps  
Rudnyi – 1 Russian military 1:10,000 topographic City Plan map  
Rudnyi – 2 Russian military 1:25,000 topographic City Plan maps  
Sary-Ozek – 1 Russian military 1:10,000 topographic City Plan map  
Semipalatinsk – 1 Russian military 1:25,000 topographic City Plan map  
Serebryansk – 1 Russian military 1:10,000 topographic City Plan map  
Shevchenko (Aktau) – 2 Russian military 1:10,000 topographic City Plan maps  
Stepnogorsk – 1 Russian military 1:25,000 topographic City Plan map  
Taldy-Kurgan – 1 Russian military 1:10,000 topographic City Plan map  
Temirtau – 1 Russian military 1:25,000 topographic City Plan map  
Topar – 1 Russian military 1:10,000 topographic City Plan map  
Tselinograd (Akmola) – 1 Russian military 1:25,000 topographic City Plan map  
Turkestan – 2 Russian military 1:10,000 topographic City Plan maps  
Uralsk – 4 Russian military 1:10,000 topographic City Plan maps  
Ushtobe – 1 Russian military 1:10,000 topographic City Plan map  
Ust-Kamenogorsk – 6 Russian military 1:10,000 topographic City Plan maps  
Zaysan – 1 Russian military 1:10,000 topographic City Plan map  
Zyryanovsk – 2 Russian military 1:10,000 topographic City Plan maps

### **Off-shelf global data of Kazakhstan—low-cost, rapid delivery:**

Kazakhstan VMAP-0 – US NGA 1:1,000,000 vector mapping  
Kazakhstan SRTM3 – Shuttle Radar Topography Mission 3 arc second (ca. 90m) resolution DEMs  
Kazakhstan SRTM30 – the earlier GTOPO30 30 arc second (ca. 1km) resolution worldwide DEM dataset enhanced with reduced resolution SRTM where available  
Kazakhstan GeoCover 1990 30m resolution 7-4-2 Landsat 5 ortho imagery  
Kazakhstan GeoCover 2000 15m resolution 7-4-2 Landsat 7 ortho imagery

### **Satellite imagery:**

High-resolution satellite imagery including GeoEye Ikonos 1m & GeoEye-1 50cm, DigitalGlobe QuickBird 60cm, WorldView-1 50cm, WorldView-2 50cm & CitySphere of Kazakhstan  
Medium-resolution satellite imagery for cost-effective large-area coverage including Astrium GEO-Information Services SPOT Image 2.5m - 20m & SPOTMaps, ALOS 2.5m - 10m, RapidEye 5m, ASTER 15m and Landsat 15m - 30m of Kazakhstan

## Kazakhstan (continued)

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### **Image processing, vector feature extraction, classification and terrain modeling:**

Image processing services including orthorectification, tonal balancing, mosaic output, pan-sharpening, band manipulation, natural color simulation, 16- to 8-bit scaling/DRA (Dynamic Range Adjustment), cloud-patching, atmospheric correction, wavelet compression, GPS GCP (Ground Control Point) target location and accuracy assessment

Classification services including land-use, land-cover, vegetation and impervious surface mapping

2d vector feature extraction including roads/transportation, hydrology and building footprints

3d terrain modeling via auto-correlation and photogrammetric methods using stereo satellite imagery including high-res (Ikonos, GeoEye-1, WorldView-1 & WorldView-2--up to 1m post spacing), ALOS (10m post spacing), SPOT Image (20m post spacing), ASTER (30m post spacing) or radar (10m post spacing); Intermap DEMs (5m post spacing) from airborne radar are also offered of select locations. 3d building models with customer choice of LOD (Level of Detail) are extracted from stereo or off-nadir imagery

**Contact us** with your AOI (Area of Interest) for a scene search to determine if the imagery you need is already in archive or has to be custom-acquired.

### **LAND INFO Worldwide Mapping, LLC**

Founded in 1993, LAND INFO Worldwide Mapping, LLC (Land Info) maintains one of the world's largest commercial archives of digital and paper topographic map and nautical chart data. Complemented by a variety of high-resolution and medium-resolution satellite imagery products, our total focus on data enables us to deliver high-quality solutions with rapid turn-around at competitive prices.

The markets we serve include mapping and geographic information systems (GIS), academia, national security and defense, visualization/simulation, aviation, wireless communications and other utilities, mining, oil & gas, conservation, hydrology, civil and environmental engineering, conservation, humanitarian assistance, land surveying, development, fleet management, mass media and motion pictures, among others.

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