

Land Info offers a variety of digital topographic map & nautical chart data and satellite imagery products of Spain 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.



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

- Full coverage of Spain via 4,170 national 1:25,000 topographic maps
- Full coverage of Spain via 1,130 national 1:50,000 topographic maps
- Full coverage of Spain via 307 national 1:100,000 topographic maps
- Full coverage of Spain via 43 national 1:250,000 topographic maps
- Full coverage of Spain via 417 Russian military 1:100,000 topographic maps
- Full coverage of Spain via 135 Russian military 1:200,000 topographic maps
- Partial coverage of Spain via 21 US NGA 1:250,000 JOG topographic maps
- Near-full coverage of Spain via 8 US 1:500,000 TPC aeronautical topographic maps
- Full coverage of Spain via 3 US 1:1,000,000 ONC aeronautical topographic maps

Spain	
Land area .....	498,980 sq km
Water area .....	6,390 sq km
Total area .....	505,370 sq km
Land boundaries .....	1,917.8 km
Coastline .....	4,964 km
Lowest point .....	Atlantic Ocean 0
Highest point .....	Pico de Teide 3,718 m

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

- Algeciras – 1 Russian military 1:10,000 topographic City Plan map
- Alicante (Alacant) – 1 Russian military 1:10,000 topographic City Plan map
- Badajoz – 1 Russian military 1:10,000 topographic City Plan map
- Barcelona – 1 Russian military 1:25,000 topographic City Plan map
- Barcelona, Badalona, Hospitalet – 6 Russian military 1:10,000 topographic City Plan maps
- Bilbao – 1 Russian military 1:10,000 topographic City Plan map
- Burgos – 1 Russian military 1:10,000 topographic City Plan map
- Cadiz – 1 Russian military 1:10,000 topographic City Plan map
- Cartagena – 1 Russian military 1:10,000 topographic City Plan map

## Spain (continued)

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Cordoba – 1 Russian military 1:10,000 topographic City Plan map  
Granada – 1 Russian military 1:10,000 topographic City Plan map  
Jerez de la Frontera – 1 Russian military 1:10,000 topographic City Plan map  
La Coruna – 1 Russian military 1:10,000 topographic City Plan map  
Leon – 1 Russian military 1:10,000 topographic City Plan map  
Lerida (Lleida) – 1 Russian military 1:10,000 topographic City Plan map  
Lugo – 1 Russian military 1:10,000 topographic City Plan map  
Madrid – 4 Russian military 1:10,000 topographic City Plan maps  
Malaga – 1 Russian military 1:10,000 topographic City Plan map  
Mao – 1 Russian military 1:10,000 topographic City Plan map  
Murcia – 1 Russian military 1:10,000 topographic City Plan map  
Oviedo – 1 Russian military 1:10,000 topographic City Plan map  
Palma (de Mallorca) – 2 Russian military 1:10,000 topographic City Plan maps  
Pamplona – 1 Russian military 1:10,000 topographic City Plan map  
Pontevedra – 1 Russian military 1:10,000 topographic City Plan map  
Sabadell – 1 Russian military 1:10,000 topographic City Plan map  
Salamanca – 1 Russian military 1:10,000 topographic City Plan map  
San Fernando – 1 Russian military 1:10,000 topographic City Plan map  
San Sebastian – 1 Russian military 1:10,000 topographic City Plan map  
Santa Cruz de Tenerife – 1 Russian military 1:10,000 topographic City Plan map  
Santander – 1 Russian military 1:10,000 topographic City Plan map  
Santiago (de Compostela) – 1 Russian military 1:10,000 topographic City Plan map  
Saragossa (Zaragoza) – 1 Russian military 1:10,000 topographic City Plan map  
Seville (Sevilla) – 2 Russian military 1:10,000 topographic City Plan maps  
Valencia – 1 Russian military 1:10,000 topographic City Plan map  
Valladolid – 2 Russian military 1:10,000 topographic City Plan map  
Vigo – 1 Russian military 1:10,000 topographic City Plan map  
Vitoria – 1 Russian military 1:10,000 topographic City Plan map

### **Off-shelf global data of Spain–low-cost, rapid delivery:**

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

### **Satellite imagery:**

High-resolution satellite imagery including GeoEye Ikonos 1m & GeoEye-1 50cm, Astrium Pléiades 50cm, DigitalGlobe QuickBird 60cm, WorldView-1 50cm & WorldView-2 50cm of Spain  
Medium-resolution satellite imagery for cost-effective large-area coverage including Astrium GEO-Information Services SPOT Image 1.5m - 20m & SPOTMaps, ALOS 2.5m - 10m, RapidEye 5m, ASTER 15m, DEIMOS 22m and Landsat 15m - 30m of Spain

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

Image processing services including orthorectification, tonal balancing, mosaic output, pan-sharpening, band manipulation,

## Spain (continued)

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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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