Country Profile: Romania

Country Profile (PDF)

Country Resources

Topographic

Series	Publisher	Scale	Years	Sheets
Romania 1:50,000 Scale Topographic Maps (CNC)	CNC	1:50,000	2019	737
Romania 1:100,000 Scale Topographic Maps	CNC	1:100,000	2019	204
Greece 1:1,000,000 Scale Topographic Maps	HMGS	1:1,000,000		5
Romania 1:50,000 Scale Topographic Maps (DTM)	DTM	1:50,000		738
Romania 1:200,000 Scale Topographic Maps	DTM	1:200,000	1993	62
Romania 1:500,000 Scale Topographic Maps	DTM	1:500,000		14
Romania 1:1,000,000 Scale Topographic Maps	DTM	1:1,000,000		6
Yugoslavia 1:750,000 Scale Topographic Maps	VGI	1:750,000	1968	2

Geoscientific

Series	Publisher	Scale	Years	Sheets
Romania 1:500,000 Scale Geological Maps (12 Sheets)	CG	1:500,000	1964	1
Romania 1:1,000,000 Scale Geological Map (2 sheets)	IGG	1:1,000,000	1978	1
Romania 1:1,000,000 Scale Metallogenic Map	IGG	1:1,000,000	1969	1
Romania 1:200,000 Scale Geological Maps	IG	1:200,000	1965 – 1968	50
Eastern Carpathians 1:200,000 Scale Geological Maps	MGCCCP	Varies	1952	25

Thematic

Series	Publisher	Scale	Years	Sheets
The World 1:30,000,000 Scale Topographic Map Series 1145 (NGA)	DMA	1:30,000,000		2

Global Census Archive: GIS Census Data

East View Geospatial has an ongoing effort to add GIS census data to our Global Census Archive program. Please contact us for the status and availability of Romania census resources.

Global Resources

Topographic

Series	Publisher	Scale	Years	Sheets
Soviet Military City Plans	VTU GSh	Varies	1944 – 2003	3,021
Soviet Military 1:100,000 Scale Topographic Maps	VTU GSh	1:100,000	1947 – 1999	24,897
Soviet Military 1:200,000 Scale Topographic Maps	VTU GSh	1:200,000	1949 – 2009	17,799
Soviet Military 1:500,000 Scale Topographic Maps	VTU GSh	1:500,000	1953 – 1998	3,093
Soviet Military 1:1,000,000 Scale Topographic Maps	VTU GSh	1:1,000,000	1948 – 1994	1,089

Nautical

Series	Publisher	Scale	Years	Sheets

NGA Nautical Charts POD Certified (All Scales)	NGA	Varies	1943 – 2013	4,517

Aeronautical

Series	Publisher	Scale	Years	Sheets
Joint Operations Graphic (JOG 1501A) 1:250,000 – Aeronautical	DMA	1:250,000	1958 – 2007	6,380
Tactical Pilotage Chart (TPC) 1:500,000 Scale – Aeronautical	DMA	1:500,000	1967 – 2006	618
Operational Navigation Chart (ONC) 1:1,000,000 Scale – Aeronautical	DMA	1:1,000,000	1969 – 2001	248
Jet Navigation Chart (JNC) 1:2,000,000 Scale – Aeronautical	DMA	1:2,000,000	1971 – 1999	117
Global Navigation and Planning Chart (GNC) 1:5,000,000 Scale – Aeronautical	DMA	1:5,000,000	1981 – 1999	27

Note: East View Geospatial is continuously sourcing new resources that may not yet be listed in Global Explorer. Please contact us if you have geodata needs beyond what is listed above and we will be happy to discuss available off-the-shelf and custom solutions.

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Country Profile (PDF)

Topographic

Until recently, the two major government mapping authorities in Romania have been the **Military Topographic Department** (**Directia Topografica Militara (DTM)**), and the **Institute for Geodesy, Photogrammetry, Cartography and Land Management** (**Institutul de Geodezie, Fotogrammetrie, Cartografie, si Organizarea Teritoriului (IGFCOT)**). This situation has recently changed, following a decision in 1996 by the Romanian Government to establish a combined civilian **National Office of Cadastre, Geodesy and Cartography (Oficiul National de Cadastru, Geodezie si Cartografie (ONCGC)**. Maps continued to be published under the imprint of the previous organizations into the late 1990s.

The **DTM** operated within the **Ministry of Defence**, and has been responsible for carrying out geodetic survey and the production of topographic mapping for military purposes and for use by other official state organizations since 1859. Topographic survey at a basic scales of 1:20,000 or 1:10,000 made good progress from 1875, and continued up until the First World War. Subsequently, in the inter-war years, a series of *Directorial Plans* at 1:20,000 was compiled for the whole country, together with derived maps at 1:100.000 and 1:200,000 scales.

Following the Conference of East European Cartographic and Geodetic Services held at Sofia in 1952, new topographic series were initiated according to the Soviet 1942 system. The projection is Gauss-Krüger, Krassovsky ellipsoid, while a modified polyconic projection has been used for 1:500,000 and 1:1,000,000 scales. Sheet lines conform with the *International map of the World* system, and printing is in seven colors.

Soviet military topographic mapping of Romania exists at the following scales: 1:1,000,000 (7 sheets, complete coverage, published 1979-1990); 1:500,000 (15 sheets, complete coverage, published 1977-1989); 1:200,000 (64 sheets, complete coverage, published 1970-1993); 1:100,000 (202 sheets, complete coverage, published 1973-1984); 1:50,000 (731 sheets, complete coverage, published 1971-1994) and city (1:10,000 to 1:15,000) topographic mapping of 35 major cities from Alba Iulia to Zimnicea published between 1950 and 1987. These products are available in print, digital raster and digital vector GIS formats from **East View Geospatial**.

From 1958, a number of town maps at scales of 1:5,000 or 1:10,000 were also made, initially on the Gauss-Krüger projection, but after 1970 on a stereographic projection. More than 100 such sheets have been produced. There is also a street map of Bucharest in four sheets at 1:15,000 derived from larger scale surveys, which is revised annually.

The 1:50,000 series in 737 sheets is now regarded as the base map. It was revised in the period 1965-72 using aerial photographs, and is currently being updated again with the intention of establishing a revision cycle of five to six years. The 1:25,000 will be retained, but revision only at 15-20-year intervals, except for sheets covering areas of rapid change.

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GIS/Vector

Geo Strategies SA, Sibiu, is a private company established in 1993, which has rapidly become a major producer of digital mapping, initially specializing in data for Romania and other countries of the former East European bloc, and now extending cover to areas in the Near and Middle East. Its main task has been the vector digitizing of the Romanian topographic map archive. This work includes maps at scales ranging from the 1:1,000,000 map of administrative areas to topographic map series at 1:200,000 and 1:100,000 scales, and urban mapping at 1:5,000 and 1:1,000. There is also a digital version of the 1:1,000,000 scale geological map and a 100 m interval Digital Terrain Model of the whole country.

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Geological/Scientific

Earth science mapping is the responsibility of the **Geological Institute of Romania** (**Institutul Geologic al României (IGR)**), established in 1906 and superseding the **Geological Bureau** founded in 1882. A series of 1:200,000 scale geological sheets was published for the whole country over the period 1965–68. Magnetic maps at the same scale cover the southern part of the country. The most detailed geological series, however, is at 1:50,000 scale. Some 136 sheets have been published, and this is an active series with many more sheets in preparation. Other series maps include hydrogeological maps at 1:100,000 scale which cover the south and northeast and a few 1:50,000 sheets in a metallogenic and a hydrogeological series. Particularly useful for general reference purposes is the 1:1,000,000 scale geological atlas, which comprises 17 sheets covering a wide range of themes, including some not strictly geological, such as a soil map and a geobotanical map.

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Soil

Soil mapping has a long tradition, and the current soil survey organization, **Institutul de Cercetari pentru Pedologie si Agronomie (ICPPA)** completed the principal series of 1:200,000 scale soil maps, initiated in 1963. It is intended to derive new 1:1,000,000 and 1:500,000 scale maps from this series.

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Thematic

Amco Press is a private company specializing in map and atlas production and GIS. They have produced road, tourist and wall maps of Romania, hiking maps of some mountain areas, and street maps of Romanian cities. Currently they are cooperating with the **University of Bucharest** in the production of a 1:50,000 scale series of geomorphological maps of Romania, with funding from the World Bank.

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Atlas

The Romanian national atlas, *Atlasul Republicii Socialiste Romania*, was prepared by the **Geographical Institute of the Romanian Academy of Sciences** (**Institutul de Geografie Academia Româna (IGAC)**) and published during the period 1974-79. This substantial work has numerous foldout maps at the principal scale of 1:1,000,000, arranged into 13 subject areas. Texts and legends are in Romanian, French, English and Russian. The Institute continues to have an active interest in mapping, and a historical-geographical atlas was published by **Editura Academiei Române** in 1996.

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Cadaster

IGFCOT has been the primary civilian mapping institute, producing tourist, thematic, city and administrative mapping. It has also undertaken cadastral mapping, being responsible for a cadastral/land use planning series in 597 sheets, compiled in the 1980s. Most of the territory was also covered by cadastral maps at the scale of 1:10,000 or 1:5,000. A series of *judet* (county) maps at 1:100,000 scale in 41 sheets include small thematic inset maps of industries, soil and features of cultural and tourist interest.

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Tourist/Reference

In 1989, the publishing house **Editura Sport-Turism**, was disbanded and the publishing element replaced by **Casa Editoriala pentru Turism si Cultura 'Abeona' (Abeona)**. **Abeona** has published a series of tourist maps (*Harta turistica*) at scales mainly of 1:100,000 or 1:50,000 and with legends in four languages. Mountain tourist maps are also published by **Regio Autonoma a Imprimeriilor**. Maps for educational instruction, including school atlases, globes and wall maps, are published by **Editura Didactica si Pedagogica**, founded in 1951.

Tourist and general maps of the country are published by a number of well-known European publishers, including **Cartographia**, **Kummerly + Frey (K+F)**, **Freytag Berndt (FB)**, **Hallwag**, **Mair** and **Ravenstein**.

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Census/Demography/Statistics

Statistical data about the economy and society are collected and disseminated by the **National Commission for Statistics** (**Comisia Nationala pentru Statistica**).

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