

## Country Profile: Turkey

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### Country Resources

#### Topographic

Series	Publisher	Scale	Years	Sheets
Turkey 1:1,000,000 Scale Topographic Maps	General Command of Mapping Turkey	1:1,000,000	1986 - 1986	8
Greece 1:500,000 Scale Topographic Maps	Hellenic Military Geographical Service	1:500,000	-	10
Greece 1:1,000,000 Scale Topographic Maps	Hellenic Military Geographical Service	1:1,000,000	-	5
Turkey 1:250,000 Scale Topographic Maps	MSB Harita Genel Komutanligi	1:250,000	2003 - 2017	66
VMAPO 1:1,000,000 Scale Vector Data	National Imagery and Mapping Agency	1:1,000,000	1992 - 1992	4
Turkey 1:800,000 Scale Topographic Maps (AMS K300)	United States Army Map Service	1:800,000	1942 - 1942	6

#### Aeronautical

Series	Publisher	Scale	Years	Sheets
Turkey 1:250,000 Scale Aeronautical Charts (1501 AIR)	MSB Harita Genel Komutanligi	1:250,000	2003 - 2017	66
Turkey 1:250,000 Scale Aeronautical Charts TFC(L)-TU	MSB Harita Genel Komutanligi	1:250,000	2009 - 2017	66

#### Geoscientific

Series	Publisher	Scale	Years	Sheets
Turkey 1:500,000 Scale Geological Maps Old Series	Institute of Mineral Research and Exploration	1:500,000	1961 - 1964	17
Turkey 1:100,000 Scale Geological Maps	Maden Tetkik ve Arama Genel Mudurlugu (General Directorate of Mineral Research and Exploration)	1:100,000	1986 - 2022	320
Turkey 1:500,000 Scale Geological Maps	Maden Tetkik ve Arama Genel Mudurlugu (General Directorate of Mineral Research and Exploration)	1:500,000	2002 - 2002	18
Turkey 1:500,000 Scale Landslide Maps	Maden Tetkik ve Arama Genel Mudurlugu (General Directorate of Mineral Research and Exploration)	1:500,000	2007 - 2009	18
Syria 1:200,000 Scale Geological Maps	Ministry of Industry, Department of Geological and Mineral Research	1:200,000	1963 - 1963	19
Iraq (and western Iran) 1:1,000,000 Scale Geological Map	Robertson Research International Limited	1:1,000,000	1987 - 1987	1

#### 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 Turkey census resources.

### Global Resources

## Topographic

Series	Publisher	Scale	Years	Sheets
Soviet Military City Plans	Voenno-topograficheskoe upravlenie General'nogo shtaba (Soviet Union)	Varies	1944 - 2003	3017
Soviet Military 1:100,000 Scale Topographic Maps	Voenno-topograficheskoe upravlenie General'nogo shtaba (Soviet Union)	1:100,000	1947 - 1999	24897
Soviet Military 1:200,000 Scale Topographic Maps	Voenno-topograficheskoe upravlenie General'nogo shtaba (Soviet Union)	1:200,000	1949 - 2009	17799
Soviet Military 1:500,000 Scale Topographic Maps	Voenno-topograficheskoe upravlenie General'nogo shtaba (Soviet Union)	1:500,000	1953 - 1998	3093

## Nautical

Series	Publisher	Scale	Years	Sheets
NGA Nautical Charts POD Certified (All Scales)	National Geospatial-Intelligence Agency	Varies	1943 - 2013	4517

## Aeronautical

Series	Publisher	Scale	Years	Sheets
Joint Operations Graphic (JOG) 1:250,000 - Aeronautical	Defence Mapping Agency	1:250,000	1958 - 2007	4204
Tactical Pilotage Chart (TPC) 1:500,000 Scale - Aeronautical	Defence Mapping Agency	1:500,000	1967 - 2006	598
Operational Navigation Chart (ONC) 1:1,000,000 Scale - Aeronautical	Defence Mapping Agency	1:1,000,000	1969 - 2001	243
Jet Navigation Chart (JNC) 1:2,000,000 Scale - Aeronautical	Defence Mapping Agency	1:2,000,000	1971 - 1999	117
Global Navigation and Planning Chart (GNC) 1:5,000,000 Scale - Aeronautical	Defence Mapping Agency	1:5,000,000	1981 - 1999	27

## Geoscientific

Series	Publisher	Scale	Years	Sheets
Soviet Military 1:1,000,000 Scale Topographic Maps	Voenno-topograficheskoe upravlenie General'nogo shtaba (Soviet Union)	1:1,000,000	1948 - 1994	1089

**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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## Historical Country Mapping Information

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### Topographic

Since 1983 the **General Command of Mapping, (Harita Genel Komutanligi (HGK))** has been responsible for geodetic, topographic and aerial surveying of Turkey and for publication of official map series. Its history can be traced to the establishment in 1895 of a military mapping section in the general staff, which began the systematic survey of the whole country. A 1:25,000 scale topographic map was started in 1909 and remains the basic scale. Early sheets were on the Bonne projection, from 1931 the Gauss Krüger projection was adopted and since 1950 sheets have been based on the UTM grid and projection, Hayford ellipsoid. This series was completed in 5,564 sheets and is under photogrammetric revision, the second edition of these maps was completed in 1996. Relief is shown with 20 m contours and the map is in five colors. Since 1994 map components have been digitized. From 1996 data capture started for the establishment of a 1:25,000 scale based national geographical information system, and a digital production flowline is now used for production of hard copy mapping in this series.

A 1:50,000 scale map (Series K716) is being revised using stereo SPOT satellite imagery; sheets were originally derived from parent

1:25,000 maps and cover 15' quadrangles. The series was completed between 1973 and 1995 with about 1,500 maps needed for complete coverage. 1:100,000 scale mapping is also complete for the country in 339 sheets. The first edition of this series was completed between 1950 and 1972 by generalization from 1:25,000 scale coverage. A second edition was derived from 1:50,000 scale components and is nearing completion. There are plans to generate these maps in the future from the 1:25,000 scale data base, but in 1999 1:50,000 and 1:100,000 scale series were still produced using conventional cartographic methods.

There are also moves to establish a Turkish national fundamental GPS network to offer more accurate horizontal and vertical survey control.

New 1:250,000 scale mapping conforming to JOG specifications was revised in the 1980s. In 1998 gazetteer data from this source were captured in digital form and there are plans to produce an ARC/INFO-based 1:250,000 scale GIS.

Smaller scale series include 1:500,000 coverage conforming to (Series 1404) specifications, and a road map series at this scale prepared in conjunction with German commercial house **Ryborsch**. A 1:1,000,000 scale national digital geographic database for the country is being established. **HGK**, also publishes Turkish sheets in the *International map of the World (IMW)*, and a number of smaller scale administrative and physical maps.

Soviet military topographic mapping of Turkey is available at the following scales: 1:1,000,000 (11 sheets, complete coverage, published 1974-1990); 1:500,000 (29 sheets, complete coverage, published 1971-1989); 1:200,000 (169 sheets, complete coverage, published 1970-1991); 1:100,000 (590 sheets, complete coverage, published 1970-1994); 1:50,000 (1,418 sheets, complete coverage, published 1971-2002) and city (1:10,000 to 1:25,000) topographic mapping of 30 major cities from Adana to Zonguldak published between 1976 and 1994. These products are available in print, digital raster and digital vector GIS formats from **East View Geospatial**.

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## Nautical

Hydrographic charts of the Mediterranean, Aegean and Black Seas are published by **Seyir Hidrografi ve Osinografi Dairesi Baskanliđi (SHODB)** in the Turkish navy. **SHODB** was established in 1909 and also compiles a range of oceanographic studies of these areas.

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## Geological/Scientific

Geological and other earth science mapping of Turkey is carried out by the **General Directorate of Mineral Research and Exploration (Maden Tetkik ve Arama Genel Mdrlg (MTA))**. 1:500,000 scale geological coverage was completed in the 1960s. A three-color 1:100,000 scale series, published with sheet explanations is actively in progress, with five or six new sheets published each year. Over 50 maps have so far been published. Other smaller scale applied earth science themes are also issued by **MTA**, notably geomorphology, and several mineral themes, and local 1:50,000 scale mapping is also compiled for some areas.

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## Vegetation/Forestry

Divisions of the **Ministry of Agriculture Forestry and Rural Affairs** have also been active in the map publication. The **General Directorate of Rural Affairs (Koy Hizmetleri Genel Mdrlg (KHGM))** compiles large scale maps of settlement areas and public works. Using **HGK** 1:25,000 and 1:100,000 scale bases **KHGM** has compiled soil and fertilizer maps issued as a series of provincial atlases. **Orman Genel Mdrlg (The General Directorate of Forestry)** also uses **HGK** 1:25,000 and 1:100,000 scale base maps for its forest mapping programs. 370 1:100,000 and about 5,500 1:25,000 scale sheets are maintained, and from 1994 a new digital program

was started, with updates to forest coverage derived from 1:15,000 scale aerial photographs. **Derslet Meteroloji Isleri Genel Müdürlüğü (The General Directorate of Meteorological Services)** produces climatological mapping, including a 1:4,000,000 scale atlas, published in 1989.

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## Thematic

German agencies have also been involved in the thematic mapping of Turkey. The *Tübinger Atlas des Vorderen Orients (TAVO)*, includes a number of historical maps of the country, as well as ethnic mapping, land use, geomorphology, natural regions and geological coverage, mostly at 1:2,000,000 scale. The German earth science mapping agency **Bundesanstalt für Bodenforschung und Rohstoffe (BfGR)** has published palaeogeographic mapping of the country and some larger scale regional full color geological maps. An energy map covering the country was published in 1995 by **Petroleum Economist (PE)**.

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## Cadaster

Large scale maps of Turkey are prepared for cadastral and planning purposes by **Tapu ve Kadastro**, established in 1925, in conjunction with **HGK**. These comprise 1:5,000 scale topographic and cadastral maps, compiled from aerial coverage, which since 1955 have been produced in a single national specification and using unified sheet lines. 1:1,000 scale urban maps and a wide variety of other cadastral coverage derived from ground survey are also issued. Since 1988 there has been a project to reorganize these 300,000 large scale map sheets into a single digital system, based upon national coordinates in a three degree UTM projection. The larger municipalities in Turkey also maintain mapping offices. Istanbul for example is covered in over 2,000 1:1,000 scale planning maps.

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## Tourist/Reference

The **General Directorate of Highways (Harita Karayollari Genel Müdürlüğü)** issues a regularly revised double-sided small scale road map of the country with larger scale insets of Ankara and Istanbul areas.

Commercial map producers in Turkey are **AMD**, Ankara, whose range is printed by **De Agostini**, Italy and includes coverage of cities, as well as general maps of the country and of North Cyprus, and **NET Turistik**, who distribute maps of the country from several British cartographic houses and have also started to produce their own local cartography of tourist areas. **Türkiye Turing ve Otomobil Kurumu (TTOK)** publishes motoring maps of Turkey, based upon **Ravenstein** mapping.

A number of overseas commercial publishers issue tourist maps of Turkey, or of the increasingly important holiday areas of the country. These include **ESR**, **HarperCollins**, **Lonely Planet**, **New Holland**, **RV**, **Ryborsch**, **Kümmerly + Frey**, **Karto + Grafik** and **Hallwag**, with **West Col** issuing coverage of the Mount Ararat area. Town maps are published by **Hallwag** and **Falk**.

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