

## Country Profile: Iran

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### Country Resources

#### Topographic

Series	Publisher	Scale	Years	Sheets
Iran 1:50,000 Scale Topographic Maps (DMA K753)	Defence Mapping Agency	1:50,000	1976 - 1976	2
EVGmap 5 Tehran City Vector Data	East View Geospatial	1:5,000	2008 - 2008	1
Iran 1:50,000 Scale Topographic Maps	National Geographic Organization- Iran	1:50,000	1968 - 2003	2649
Iran 1:250,000 Scale Topographic Maps	National Geographic Organization- Iran	1:250,000	1972 - 2003	133

#### Nautical

Series	Publisher	Scale	Years	Sheets
Iran Nautical Charts (All Scales)	National Geographic Organization- Iran	Varies	1992 - 2008	112

#### Geoscientific

Series	Publisher	Scale	Years	Sheets
Oman 1:1,000,000 Scale Geological Maps	Directorate General of Minerals	1:1,000,000	1993 - 1993	1
China 1:2,500,000 Scale Geological Map (6 sheets)	Dizhi Chubanshe / Geological Publishing House	1:2,500,000	2005 - 2005	1
Iran 1:100,000 Scale Geochemical Vector Data	Geological Survey of Iran	1:100,000	-	462
Iran 1:100,000 Scale Geological Explanatory Notes	Geological Survey of Iran	1:100,000	1970 - 2009	426
Iran 1:100,000 Scale Geological Maps	Geological Survey of Iran	1:100,000	1966 - 2013	623
Iran 1:250,000 Scale Geological Explanatory Notes	Geological Survey of Iran	1:250,000	1968 - 2006	43
Iran 1:250,000 Scale Geological GIS Data	Geological Survey of Iran	1:250,000	-	111
Iran 1:250,000 Scale Geological Maps	Geological Survey of Iran	1:250,000	1967 - 2012	123
Iraq (and western Iran) 1:1,000,000 Scale Geological Map	Robertson Research International Limited	1:1,000,000	1987 - 1987	1
Iran 1:250,000 Scale Soil Maps	Soil and Water Research Institute	1:250,000	1981 - 1996	22

#### Thematic

Series	Publisher	Scale	Years	Sheets
The World 1:30,000,000 Scale Topographic Map Series 1145 (NGA)	DMA	1:30,000,000	-	2
Gitashenasi Tourist Maps (Province Maps)	GS	Varies	1993 - 2024	78
Gitashenasi Tourist Maps (City Maps)	GS	Varies	1977 - 2023	267
Gitashenasi Tourist Maps (Country Maps)	GS	Varies	1975 - 2023	120
Iran NCC City Maps	NCC	Varies	2001 - 2011	47

### Global Census Archive: GIS Census Data

Year	Questions / Answers	ADM Level	Polygons at ADM	Data Points
2011	27 / 332	4	4,299	1,427,268

### Global Resources

#### Topographic

Series	Publisher	Scale	Years	Sheets
Soviet Military City Plans	Voенно-топографическое управление General'nogo shtaba (Soviet Union)	Varies	1944 - 1992	40 of 3017

Soviet Military 1:100,000 Scale Topographic Maps	Voenno-topograficheskoe upravlenie General'nogo shtaba (Soviet Union)	1:100,000	1974 - 1991	1056 of 24897
Soviet Military 1:200,000 Scale Topographic Maps	Voenno-topograficheskoe upravlenie General'nogo shtaba (Soviet Union)	1:200,000	1961 - 1992	288 of 17799
Soviet Military 1:500,000 Scale Topographic Maps	Voenno-topograficheskoe upravlenie General'nogo shtaba (Soviet Union)	1:500,000	1973 - 1992	43 of 3093

## Nautical

Series	Publisher	Scale	Years	Sheets
NGA Nautical Charts POD Certified (All Scales)	National Geospatial-Intelligence Agency	Varies	1982 - 2012	46 of 4517

## Aeronautical

Series	Publisher	Scale	Years	Sheets
Joint Operations Graphic (JOG) 1:250,000 - Aeronautical	Defence Mapping Agency	1:250,000	1968 - 2003	128 of 4204
Tactical Pilotage Chart (TPC) 1:500,000 Scale - Aeronautical	Defence Mapping Agency	1:500,000	1989 - 1998	10 of 598
Operational Navigation Chart (ONC) 1:1,000,000 Scale - Aeronautical	Defence Mapping Agency	1:1,000,000	1994 - 1999	4 of 243
Jet Navigation Chart (JNC) 1:2,000,000 Scale - Aeronautical	Defence Mapping Agency	1:2,000,000	1988 - 1997	4 of 117
Global Navigation and Planning Chart (GNC) 1:5,000,000 Scale - Aeronautical	Defence Mapping Agency	1:5,000,000	1986 - 1986	1 of 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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## Historical Country Mapping Information

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### Topographic

Mapping of Iran was established by the British in their **Survey of India** programs with complete quarter-inch reconnaissance coverage of the country, and partial half-inch mapping. Not until after World War II were national bodies established with mapping responsibilities. The civilian official mapping agency is the **National Cartographic Centre (NCC)** first set up with UN assistance in 1953. Its responsibilities encompass the maintenance of geodetic and levelling networks, topographic base mapping, and the production of the national atlas and thematic mapping. Meanwhile military mapping had been the responsibility of the **National Geographic Organization (NGO)**. For most of its history **NCC** has concentrated upon the larger scales and coordinated production, while **NGO** has produced restricted military small and medium scale series. The two organizations merged in 1968, but were separated again after the Islamic revolution.

Military series covering Iran at 1:50,000, 1:250,000 and 1:1,000,000 scales have been compiled using photogrammetric methods following triangulation, levelling and aerial photographic coverage initiated in the late 1950s. These are all on the UTM projection, Hayford ellipsoid. The 1:50,000 specification includes complete coverage in 2,670 six-color sheets, with each covering a 15' × 15' area. The 1:250,000 series covers the whole country in 136 seven or eight-color sheets; 12 maps are published for each *International map of the World* sheet. Other series include a 1:500,000 map in 42 sheets. These maps are all complete, and limited work has been carried out to revise data. 1:250,000 scale coverage has been digitized. 1:50,000 scale coverage is becoming available in digital form. Only the 1:1,000,000 scale map has been revised, and is fully available in a digital form.

**NCC** initiated new projects after 1979 with a view to modernizing the civilian mapping infrastructure, but little progress was made during the years of the Islamic revolution and the Iran-Iraq war. A 1:25,000 series was planned and work started on analogue production in 1990. Over 500 four-color sheets were produced with UN support and published by the end of 1992. Meanwhile officially sanctioned plans for a national topographic database were launched and it was decided to produce digital 1:25,000 base maps for the whole country. The first phases of this project involved photogrammetric data capture, and a new national digital standard was developed. Over 10,000

sheets are needed for national coverage; these are derived from 1:40,000 scale black and white aerial coverage, and are based on the UTM projection and WGS84 spheroid. The database is organized into nine superclasses, hard copy map design is separated from the design of map displays for on-screen manipulation. It is intended to complete this project by 2007. All of these official **NCC** maps and atlases are published in the Persian language.

Soviet military topographic mapping of Iran is available at the following scales: 1:1,000,000 (15 sheets, complete coverage, published 1974-1990); 1:500,000 (43 sheets, complete coverage, published 1973-1992); 1:200,000 (288 sheets, complete coverage, published 1972-1992); 1:100,000 (1,056 sheets, complete coverage, published 1974-1991) and city (1:10,000 to 1:25,000) topographic mapping of 27 major cities from Abadan to Zanzan published between 1970 and 1992. These products are available in print, digital raster and digital vector GIS formats from **East View Geospatial**.

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## GIS/Vector

In 1996 **NCC** started a project for an intermediate 1:100,000 scale base map of the country. Using GPS control established for the 1:25,000 map it is intended to cover the whole country in a three-year period with digital and hard copy image maps, derived from SPOT XS stereo images. By-products will include a national DEM and slope and aspect maps.

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## Nautical

**NCC** is also responsible for the preparation of hydrographic charts of Iran, in conjunction with the **Ports and Shipping Organization**. Areas of interest extend beyond Iranian territorial waters to cover the Persian Gulf and the Caspian Sea, and **NCC** produces paper and digital versions of these data. Aeronautical charting of the country is also carried out by **NCC**.

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## Geological/Scientific

Geological and other earth science mapping of Iran is the responsibility of the **Geological Survey of Iran (GSIr)** and a rich variety of mapping has been produced often in conjunction with oil exploration activities. **GSIr** was founded in 1958 with assistance from the United Nations. National programs at 1:250,000 and 1:100,000 scale were started in the 1970s, and have resulted in full-color mapping of much of the country. 1:250,000 scale coverage is sometimes accompanied by an explanatory text. The whole country has been mapped, but all the sheets have not yet been published. 1:250,000 scale aeromagnetic coverage is available for almost all the country, with red or green overprints on a grey topographic base. National geological 1:1,000,000 scale coverage was completed by the **National Iranian Oil Company** in the 1970s, and magnetic intensity coverage was completed in 1989 on the same sheet lines. A wide variety of single-sheet themes are still available. Progress in geological mapping was halted after the Islamic revolution during the Iran-Iraq war, but the publication program resumed in the 1990s.

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## Atlas

Thematic atlases were published by a number of official agencies in the period prior to the national atlas project. Small-scale national coverage of Iran appeared as sheets published in the *Tübinger Atlas des Vorderen Orients (TAVO)*, and these remain the best available western language coverage of the country for several themes.

In 1991 **NCC** became responsible for the compilation of a national atlas of the country. This project was conceived as running in two distinct phases, the first was completed with the publication of a single-volume atlas in 1994, including 140 maps, most at 1:6,500,000 scale. A second phase is generating more detailed thematic volumes, with a goal of producing about 20 different atlases. Health, energy, geology, and gardening were complete by 1997, and education, higher education, industry, agriculture, population and transportation had been published by 1999. These large format volumes are published in the Persian language. It is intended to complete the program by 2000. A pilot multi-media version of the national atlas is also being designed.

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## Cadaster

Cadastral mapping in Iran is carried out by the **Iranian Cadastre Center** in the **Deed and Land Registration Organization**.

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## Tourist/Reference

Two companies produce extensive and very similar ranges of tourist and educational maps. **Sahab** is a major commercial publisher of maps of Iran and the wider Middle East. The company was established in 1887 and has concentrated for many years upon the publication of tourist and educational maps, often also available in English language editions. These include a wide variety of maps and atlases of different countries using political and physical bases, a range of indexed city maps and a series of regional maps of the provinces of Iran. A number of thematic maps are also issued and a recent initiative has seen the publication of satellite image maps of the country as well as more detailed image mapping of the Tehran area and the Persian Gulf. **Gita Shenasi** was established in 1975 and now markets a very comparable range of maps for the tourist and educational market, including an increasing number of bilingual Persian and English editions. The **Gita Shenasi** range now exceeds **Sahab** in its coverage and complexity. About 30 province and area maps complement atlases, and small-scale country, continental and world mapping. **Gita Shenasi** has collaborated with the American **Allen Cartography** in setting up a digital database, which is being used for the publication of many of its smaller scale Iranian output, including the *Iran 1999* relief map. 70 town maps of Iranian cities are published, with 23 different versions for Tehran, including 1997 versions of a 10-sheet plan and single sheet map. A recent addition to the range is an electronic atlas of the capital on CD-ROM.

Other mapping of Iran is published by the American **Central Intelligence Agency (CIA)** and by **RV** from Germany, and **GIP Reclus** released a thematic atlas of the country in 1998.

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