

Country Profile: Italy

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Country Resources

Topographic

Series	Publisher	Scale	Years	Sheets
EVGmap 50 VMAP2-Compliant GIS Vector Data	East View Geospatial	1:50,000	2011 - 2011	201
Switzerland 1:50,000 Scale Topographic Maps	Federal Office of Topography Switzerland	1:50,000	1997 - 2010	78
Switzerland 1:100,000 Scale Topographic Maps	Federal Office of Topography Switzerland	1:100,000	-	23
Switzerland 1:200,000 Scale Topographic Maps	Federal Office of Topography Switzerland	1:200,000	2009 - 2009	4
Switzerland 1:300,000 Scale Topographic Map	Federal Office of Topography Switzerland	1:300,000	2012 - 2012	1
Greece 1:1,000,000 Scale Topographic Maps	Hellenic Military Geographical Service	1:1,000,000	-	5
Italy 1:25,000 Scale Topographic Maps, 25 (Section)	Istituto Geografico Militare Italiano	1:25,000	1989 - 2011	1135
Italy 1:25,000 Scale Topographic Maps (M891 Series)	Istituto Geografico Militare Italiano	1:25,000	1945 - 1990	3549
Italy 1:50,000 Scale Topographic Maps	Istituto Geografico Militare Italiano	1:50,000	1963 - 2011	538
Italy 1:100,000 Scale Topographic Maps	Istituto Geografico Militare Italiano	1:100,000	1931 - 1991	278
Yugoslavia 1:300,000 Scale Topographic Maps	Vojnogeografski Institut	1:300,000	1988 - 2010	61
Yugoslavia 1:750,000 Scale Topographic Maps	Vojnogeografski Institut	1:750,000	1968 - 1968	2

Aeronautical

Series	Publisher	Scale	Years	Sheets
Austria 1:500,000 Scale Aeronautical Chart	Deutsche Flugsicherung	1:500,000	2016 - 2016	1
France 1:500,000 Scale Aeronautical Charts	Institut Geographique National	1:500,000	2016 - 2016	6

Geoscientific

Series	Publisher	Scale	Years	Sheets
Italy 1:50,000 Scale Geological Maps	Servizio Geologico Nazionale (former Servizio Geologico d'Italia)	1:50,000	1972 - 1992	278
Italy 1:100,000 Geological Maps	Servizio Geologico Nazionale (former Servizio Geologico d'Italia)	1:100,000	1925 - 1987	24
Italy 1:500,000 Scale Geological Maps	Servizio Geologico Nazionale (former Servizio Geologico d'Italia)	1:500,000	1976 - 1978	5
Switzerland 1:200,000 Scale Geological Maps	Swiss Geological Survey	1:200,000	1942 - 1964	8
Switzerland 1:500,000 Scale Geological Map	Swiss Geological Survey	1:500,000	2005 - 2005	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 Italy 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

The official topographic mapping authority in Italy is the **Istituto Geografico Militare (IGMI)**, Florence. **IGMI** originated in 1861 as the **Ufficio Tecnico dello Stato Maggiore Italiano**, and assumed its present name in 1882. The contemporary topographic map series are at scales of 1:25,000, 1:50,000 and 1:250,000.

Originally, the basic mapping scale of 1:25,000 was intended only for the more important regions, with 1:50,000 being used for the remainder of the country; but subsequently the 1:25,000 scale series was extended to form the basic scale map for the whole country. The earliest sheets appeared from 1879, and the series was completed in 1966 in 3,545 sheets, or *tavolette*. These sheets have appeared in various versions: early sheets were monochrome, but the more recent ones were printed in three and later five colors, and those surveyed

after 1935 were compiled photogrammetrically. However, many sheets became very dated, and in the 1960s, it was decided to begin a new series at the scale of 1:50,000 to serve as a definitive and more up-to-date national base map. This series now covers about 60 percent of the country. The 1:50,000 scale sheets (*fogli*) each cover 20' longitude and 12' latitude, and are printed in five colors. Relief is shaded, with contours at 25 m intervals, and the projection is UTM, based on the International ellipsoid. There is a three-color version of this map (Series 50/L) without relief shading but with administrative boundaries overprinted in violet.

In the 1980s it became clear that the scale of 1:50,000 was inadequate for many purposes, and so a new 1:25,000 scale series was initiated. The progress of this series has been rapid and it is being used to derive new 1:50,000 scale sheets with the aim of completing both series as soon as resources will allow. Some of the work has been contracted out to private companies. Sheets in the new 1:25,000 scale series have a different format from the *tavolette*, but are consistent with the 1:50,000 scale sheet system, each covering an area of 10' longitude by 6' latitude, i.e. one-quarter the area of land covered by a 1:50,000 scale sheet. This map is also cast on the UTM projection, International ellipsoid. Printing is in four colors with contours at 25 m intervals. In the Italian Alps a few 1:25,000 scale sheets have been published in a special edition with relief shading.

Contemporary with the earlier 1:25,000 series there was a 1:100,000 scale series in 278 sheets (Series 100/V), completed in 1921, with early sheets printed in three and later ones in five or seven colors. It has also been published in editions with and without shaded relief. This map has not been updated since 1970, but sheets remain in print and the series has remained in use as the basis for the geological series at this scale and for an administrative boundary edition (Series 100/L), in which the provinces and communes and their administrative centres are shown in violet against a brown background. A few sheets have also been published in an archaeological edition.

The former *Carta stradale d'Italia* 1:200,000 (Series M594) has not been revised since 1964, although the series is still available. It has effectively been superseded by a series of 1:250,000 scale regional maps in 15 sheets, and all but one (Sardinia) have been published. The maps are printed in 13 colors with shaded relief and a 100 m contour interval. Regional and provincial boundaries are shown, and road distances given in kilometers. There is also a set of aeronautical charts at 1:250,000 scale in both the JOG (*Joint operations graphic*) 'Ground' and 'Air' specifications, and a set of ICAO charts at 1:500,000 scale. Aeronautical information is supplied by the **Centro Informazioni Geotopografiche Aeronautiche (CIGA)**.

Smaller scale series are the 1:500,000 scale (World series 1404) in 14 sheets on a Lambert conformal conic projection and the 1:1,000,000 (World series 1301) in six sheets.

The contemporary map series have integral map covers which are color coded according to scale. Thus the 1:50,000 scale has an orange cover, while the 1:25,000 is azure, the 1:100,000 sepia and the 1:250 000 grey.

Soviet military topographic mapping of Italy is available at the following scales: 1:1,000,000 (9 sheets, complete coverage, published 1981-1990); 1:500,000 (24 sheets, complete coverage, published 1968-1992); 1:200,000 (107 sheets, complete coverage, published 1979-1990); 1:100,000 (322 sheets, primarily complete coverage, published 1977-1988); 1:50,000 (413 sheets, northern country coverage, published 1976-1988) and city (1:10,000 to 1:25,000) topographic mapping of 46 major cities from Ancona to Vicenza published between 1966 and 1989. These products are available in print, digital raster and digital vector GIS formats from **East View Geospatial**.

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GIS/Vector

During the 1990s, a new national high precision geodetic network has been observed using the GPS, and **IGMI** is currently implementing a comprehensive digital mapping program. Raster data have been captured at 1:1,000,000 and 1:500,000, and at 1:250,000 scale from the ground and air editions of the (World 1501) series. Raster data is also being captured from the existing 1:50,000 scale cover. In 1997, a project to create a vector 1:25,000 scale database was started with **IGMI** contracting some of the work to private companies. There are longer term plans to produce a 1:50,000 scale vector data base, derived partly from existing 1:50,000 scale maps, and partly from the new 1:25,000 digital data. Further projects include recent completion of a digital terrain model derived from contour data already captured mainly from the older 1:25,000 scale *tavolette*, and a digital gazetteer of all the toponyms on the existing 1:25,000 scale maps.

Mapping at scales larger than 1:25,000 is undertaken at the regional level, and is usually commissioned by agencies of regional government. These maps are termed *Carte tecniche regionale* (CTR) and are published at scales of 1:5,000 or 1:10,000.

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Nautical

Hydrographic charts of Italy's inland waters, and of the Mediterranean are produced by the **Istituto Idrografico della Marina (IIM)**. They include a series of international (INT) charts at 1:1,000,000 scale and coastal chart series at 1:250,000 and 1:100,000. Climatic and hydrological data is supplied by the **Servizio Idrografico e Mareografico**, Rome.

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Geological/Scientific

The official geological mapping of Italy is undertaken by the **Servizio Geologico d'Italia (SGI)**, founded in 1873. The principal published series was at 1:100,000 scale, began in the last decade of the nineteenth century and completed in 1976 in 277 sheets. Some of the earlier sheets have been partially revised using a new lithostratigraphic classification. In 1970 a new series was initiated at 1:50,000 scale, the sheet lines conforming with the new topographic series from **IGMI**. This now forms the main series, but only a few sheets have been published. A few regional maps have also been published, mainly at 1:250,000 scale, notably of Umbria, Lombardia and Veneto. A general synthesis of the geology of Italy is provided by the series of five 1:500,000 scale sheets published 1976-83, each of which is accompanied by a monograph, and there are also 1:1,000,000 scale geological, mineral, aeromagnetic and gravimetric maps.

A program of digital cartography (CARG) began at **SGI** in 1989. Digital data is being collected at 1:25,000 scale and are to be used in the production of new geological mapping at 1:50,000 scale.

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Imagery

In 1986, a series of satellite image maps (*spaziocarte*) began to be published on the sheet lines of the 1:50,000 scale series. These are derived from SPOT panchromatic imagery and are printed in black and white. The intention is to complete national cover of these maps in both analogue and digital form.

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Soil

In Sicily, the **Assessorato Territorio e Ambiente** is preparing 1:10,000 scale CTR maps as well as regional soil and geological maps. The soil map will be published at 1:250,000 scale and the geological map is a 1:50,000 series developed in cooperation with **SGI**. Similarly in the province of Bologna, the **Ufficio Cartografico** is preparing CTRs at scales of 1:10,000 and 1:5,000, and a soil capability map at 1:25,000 scale, and has also published maps of geology and forestry. There are many similar projects in other regions.

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Vegetation/Forestry

The *Carta della Utilizzazione del Suolo d'Italia* 1:200,000, published in the 1960s, is still available, as are some of the illustrated sheet monographs. There is also a series of regional vegetation maps, mainly at 1:25,000 scale and published in the period 1978-80.

Most Italian environmental mapping, including some geological mapping, is carried out at the regional level, commissioned by agencies within the regional administrations, and also involving a number of universities. In the late 1960s, a *Carta geologica della Calabria* 1:25,000, complete in 182 sheets with eight volumes of text, was published by the **Cassa per il Mezzogiorno**, a state bank established to carry out investment in southern Italy. It also sponsored the 1:10,000 scale topographic mapping of Calabria. The Cassa was abolished in 1984. More recent examples of environmental mapping programs include a new soil map of Regione Campania at 1:100,000 scale from the **Servizio Agricoltura**, made using ARC/INFO software. The series will be in 19 sheets, with a more generalized single sheet map of the region at 1:250,000. A land use map is also being produced at this scale in association with the **Istituto Assistenza Sviluppo per il Mezzogiorno (IASM)**. This map will also cover the regions of Basilicata and Sicily. Avalanche hazard mapping has been undertaken for the mountainous areas of Regione de Veneto by the **Centro Sperimentale Valanghe e Difesa Idrogeologica (CSVDI)**, Arabba.

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Thematic

Much thematic mapping, often regional but sometimes national, has been commissioned by the **National Council for Research (Consiglio Nazionale delle Ricerche (CNR))**. An important contribution to the earth sciences has been the **Progetto Finalizzato Geodinamica**. Volumes in the final reports of this program include an *Atlas of isoseismal maps of Italian earthquakes*, and a set of 1:1,000,000 geological and geophysical maps under the title *Structural model of Italy*.

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Atlas

The *Atlas tematico d'Italia*, produced jointly by the **CNR** and **Touring Club Italiano (TCI)**, is a major contribution to the cartography of Italy. The atlas was published as a series of loose folios in four volumes between 1989 and 1993, and includes contributions from over 150 experts from universities and research institutions. **TCI** also publishes a wide range of road maps, atlases, city street maps, and other tourist maps, and has adopted digital programs for map production. Road atlases include the standard three-volume *Atlante stradale* 1:200,000, listed in our catalogue section, and a similar *Grande atlante d'Italia: stradale e turistico* at 1:175,000 scale.

Mention should also be made of the *Atlante della Sardegna* published in two volumes by **La Zattera Editrice** in 1971-89.

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Cadaster

Cadastral mapping is the responsibility of the **Amministrazione del Catasto e dei Servizi Tecnici Erariali** and about 300,000 sheets have been archived at scales of 1:1,000, 1:2,000 and 1:4,000.

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Tourist/Reference

TCI is primarily a motorists' organization as is also the **Automobile Club Italiano (ACI)**, which also produces numerous road and tourist maps of cities, regions and of the country as a whole. **ACI** has adopted digital production methods using Intergraph technology.

The **Istituto Geografico De Agostini (IGDA)**, Novara, is a major educational publisher, famous internationally for its World atlas, *Grande atlante geografico De Agostini*. Among its many cartographic products are wall maps, school atlases, a series of 1:200,000 scale road maps of Italy, 1:250,000 scale regional maps, city street maps and atlases, and maps of the main tourist areas. **IGDA** also has a

number of multimedia products on CD-ROM, including *L'Italia guida interattiva* which has 1:750,000 scale mapping of Italy and a 6,000-entry gazetteer, and *OMNIA 1999 Atlante*, a world encyclopedia and atlas.

Also with a substantial range of cartographic publications is **Litografia Artistica Cartografica (LAC)**, founded in 1949. As well as producing maps under licence to state and provincial organizations, it has its own extensive list of national, regional and provincial road maps and atlases, tourist and hiking maps and street maps of 60 Italian cities. Products also include an extensive range of plastic relief maps, educational wall maps, and maps of other European countries and cities. **LAC** moved to a digital production system in the early 1990s.

Legenda publish guide maps to churches and museums in major cities, and a variety of other tourist-orientated maps. Other significant commercial publishers include **Studio FMB**, Bologna, (numerous street maps of cities) and **Tabacco**, which has extensive series of hiking and climbing maps of the Italian Alps at 1:50,000 and 1:25,000 scales.

An excellent tourist map of Mt. Etna was published in 1991 by the **Club Alpino Italiano**.

Although there is an excellent supply of road, tourist and city maps by the Italian publishers we have listed, there are also offerings from many foreign publishing houses, including **HarperCollins**, **AA**, **Kuperard**, **Michelin**, **Hall-wag** and **Cartographia**.

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Census/Demography/Statistics

Government statistical data is provided by the **Istituto Nazionale di Statistica (ISTAT)**.

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