

Country Profile: Guatemala

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Country Resources

Topographic

Series	Publisher	Scale	Years	Sheets
Guatemala 1:50,000 Scale Topographic Maps (DMA E754)	DMA	1:50,000	1958 - 2006	237
Guatemala 1:250,000 Scale Topographic Maps	IGN	1:250,000	1977 - 1981	3

Geoscientific

Series	Publisher	Scale	Years	Sheets
El Salvador 1:100,000 Scale Geological Maps	BGR	1:100,000	1978	6
El Salvador 1:500,000 Scale Geological Map	CIG	1:500,000	1974	1
El Salvador 1:300,000 Scale Aeromagnetic Map	IGNES	1:300,000	1981	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

Year	Questions / Answers	ADM Level	Polygons at ADM	Data Points
2018	68 / 294	3	340	99,960

Global Resources

Topographic

Series	Publisher	Scale	Years	Sheets
Soviet Military City Plans	VTU GSh	Varies	1944 - 2003	3,020
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

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	4,204
Tactical Pilotage Chart (TPC) 1:500,000 Scale - Aeronautical	DMA	1:500,000	1967 - 2006	598
Operational Navigation Chart (ONC) 1:1,000,000 Scale - Aeronautical	DMA	1:1,000,000	1969 - 2001	243
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
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Geoscientific

Series	Publisher	Scale	Years	Sheets
Soviet Military 1:1,000,000 Scale Topographic Maps	VTU GSh	1:1,000,000	1948 – 1994	1,089

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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Country Profile (PDF)

Topographic

Topographic mapping in Guatemala is the responsibility of the **Instituto Geográfico Nacional (IGNG)** (formerly **Instituto Geográfico Militar**), Guatemala City. Modern topographic mapping began in earnest only after 1945 with the establishment of a **Department of Mapping and Cartography**, and in 1948, the initiation of **Inter-American Geodetic Survey (IAGS)** involvement. First order triangulation was completed in 1954 and tied in to Mexico, El Salvador and Honduras. Also in 1954, the Department was renamed the **Dirección General de Cartografía**, and the first air photo sorties were flown upon which the main topographic series were subsequently based.

There are two principal topographic map series, at scales of 1:50,000 (E754) and 1:250,000 (E503), originally prepared in collaboration with the **IAGS** and the US **Army Map Service**. Both series are complete. The 1:50 000 *Mapa topográfico* is on a Transverse Mercator projection, Clarke 1866 ellipsoid. Sheets are in five colors, each covering an area of 10 minutes of latitude by 15 minutes of longitude. Contours are at 20 m intervals with supplementary contours at 10 m. Sheets covering El Petén are in the form of controlled radar mosaics. The 1:50,000 scale series was completed in 1977, but is currently being revised.

The 1:250,000 *Mapa básico* (called *América Central* on the sheets) covers the country in 13 sheets in a 1.5 degrees of longitude by 1 degrees of latitude format. Sheet NE 16-14 (Stann Creek) includes the coastal areas of NE 16-5, ND 16-2 and ND 16-9: thus the whole of Belize, formerly claimed by Guatemala, is also included in this series. The sheets are in five colors and the projection is UTM. Contours are at 100 m intervals with supplementary contours at 50 m. The series was completed in 1969, but some sheets have been partially revised during the 1970s and 1980s.

Soviet military topographic mapping of Guatemala exists at the following scales: 1:1,000,000 (4 sheets, complete coverage, published 1969-1990); 1:500,000 (6 sheets, complete coverage, published 1985-1988) and a city (1:10,000) topographic map of Guatemala published in 1981. These products are available in print, digital raster and digital vector formats from **East View Geospatial**.

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Nautical

There are plans to publish hydrographic charts of the Atlantic and Pacific coastal waters.

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Aeronautical

A 1:500,000 scale aeronautical chart was published in 1987.

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Geological/Scientific

IGNG also takes responsibility for earth science mapping. A 1:500,000 scale geological map was published in 1970, and detailed series at 1:250,000 and 1:50,000 on topographic series sheet lines, were initiated in 1962. The larger scale series was undertaken in collaboration with a number of universities in the United States. Each published sheet was accompanied by a monograph in English representing an American doctoral thesis. This was intended only as a partial series and 36 sheets have been published. Three 1:250,000 scale sheets are also in print: Quezaltenago, Guatemala and Chiquimula.

The **Instituto Nacional de Sismología, Vulcanología, Meteorología e Hidrología (INSIVUMEH)** has produced a series of monochrome volcanic hazard maps at 1:50,000 scale. A *Geologic map of Tecuamburro Volcano and surrounding area* at 1:50,000 scale (I-2197) was published by the **United States Geological Survey (USGS)** in 1991.

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Soil

A 1:50,000 scale land use series published in the late 1960s covers a small part of the south of the country. About half the sheets are available as eight-color litho-printed productions, the others being produced as diazo prints. A 1:250,000 scale land cover map was begun in 1985, but only two sheets have been published. 1:50,000 scale land capability maps cover a rather larger area of southern Guatemala. These are produced as diazo prints, and use an eight-category capability classification based on soil, slope and drainage criteria.

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Atlas

The *Atlas nacional de Guatemala* was published in 1972 by the then civilian **Instituto Geográfico Nacional**. It includes 130 maps and diagrams in seven colors, color and black-and-white photographs, and is organized into eight chapters covering physical and human resources, economic activities, service industries and tourism.

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Cadaster

Large-scale mapping has been undertaken in urban areas and in the populous regions south of 15°N. There are programs of urban cadastral mapping at scales of 1:2,000 (photomosaics) or 1:1000 (line maps) while rural areas are mapped at 1:10,000 scale.

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Tourist/Reference

Small-scale general maps of the country are published by **IGMG** and by **International Travel Maps (ITM)**, Canada. A new 1:15,000 map of Guatemala City was published by **IGMG** in 1988.

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Census/Demography/Statistics

The **Instituto Nacional de Estadística (INE)** is responsible for providing enumeration maps for the population censuses, carried out most recently in 1981 and 1991. **INE** has also published an administrative map of the country in 1982 and a road map in 1986.

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