

Country Profile: Svalbard

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Country Resources

Topographic

Series	Publisher	Scale	Years	Sheets
Svalbard 1:100,000 Scale Topographic Maps	Norsk Polarinstitut	1:100,000	1984 - 2005	6
Svalbard 1:500,000 Scale Topographic Maps	Norsk Polarinstitut	1:500,000	1979 - 1988	4

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 Svalbard 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

Svalbard is a group of islands belonging to Norway, and lying between 76° and 81°N in the Arctic Ocean. The islands are commonly known as Spitsbergen in English-speaking countries, but the Norwegians use that name only for the main island.

Svalbard has been extensively mapped by the **Norsk Polarinstitutt (NPI)** (formerly **Svalbard- og Ishavs-Undersøkelse**) since 1947, and there is a continuing program. Triangulation and field survey began in 1911, continuing into the 1920s and provided the original control for the maps, which are compiled photogrammetrically from air photos flown in 1936 and subsequently. Early photographs were oblique, but since 1960 only vertical photographs have been used in map compilation. New photography at 1:50,000 scale was flown in 1990. The main topographic series is at 1:100,000. Twenty-three sheets are litho printed in color; the remainder are preliminary editions and are available as diazo prints, some with and some without toponyms. The contour interval is 50 m or 25 m in low-lying areas, the projection is UTM and the more recent sheets have a UTM grid. Horizontal datum is ED 50, but from 1997, sheets are being adjusted to WGS 84 datum. Sheets normally cover 20' in latitude and 2° 30' longitude.

A number of larger scale maps of specific areas have been published by **NPI** in recent years. These include a set of eight 1:10,000 scale sheets which cover the Brøgger Peninsula (including a digital edition of the Ny-Ålesund sheet), and four digitally-produced sheets of Longyearbyen and its surroundings at 1:5,000 scale.

Small-scale cover of the archipelago is provided in four sheets at 1:500,000 scale on a Lambert conformal conic projection. These have 100 m contours with glaciers shown in white and unglacierized areas in yellow. In 1998 a 1:250,000 scale map in three sheets was published in aeronautical and topographic editions. General maps of the archipelago are also available at scales of 1:1,000,000 and 1:2,000,000.

Bear Island (*Bjørnøya*) was originally surveyed in 1922-31. The 1:25,000 scale map of the island were last published in 1955, but a new map at 1:50,000 scale was published in 1992. This is on a UTM projection, and has 20 m interval contours.

Soviet military topographic mapping of Svalbard is available at the following scales: 1:1,000,000 (4 sheets, complete coverage, published in 1983); 1:500,000 (8 sheets, complete coverage, published 1980-1981) and 1:200,000 (44 sheets, complete coverage, published 1978-1979). These products are available in print, digital raster and digital vector GIS formats from **East View Geospatial**.

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Nautical

A series of 1:200,000 scale coastal maps of Svalbard has been in progress since 1992. Hydrographic charts are published by **Statens Kartverk - Sjøkartverket**, Stavanger.

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Geological/Scientific

In 1988 a 1:100,000 scale geological series was started and sheets are currently available. Included in this series is a 1:50,000 scale geological sheet of *Bjørnøya*, published in 1995.

A 1:2,000,000 scale geological map was published by **NPI** as part of *Geology of Svalbard* by **A. Hjelle**, available in Norwegian *Polarhåndbok 6* or English *Polarhåndbok 7*. Recently several small-scale earth science and environmental maps have been published as part of the *National atlas of Norway*.

Surveys and radio-echo sounding of Svalbard glaciers have been carried out by Swedish, Soviet, Polish, German and British research institutes as well as by **NPI**. Geomorphological maps of Reindalen, Gipsdalen and Kvadehukssletta have been published, and a number of large scale vegetation maps are also available. An atlas of marine and terrestrial fauna in Southern Spitsbergen has been published by the **Department of Marine Ecology in the Institute of Oceanology, Polish Academy of Sciences (Zakład Ekologii Instytutu Oceanologii PAN)**.

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