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Profile
The Israeli Cartographic Association and Geographic Information Systems (ICS) is a meeting point and a center of knowledge for those involved in mapping and cartography and for users of geographic information systems. The Association is a registered at the Israeli Justice Ministry as a nonprofit organization since the 1970s.

The association is open to members from Israel in all fields - academia, education, private companies and businesses, governmental bodies, non-profit organizations and of course all citizens with an interest in the field.

The Association is a permanent member and has the right to vote in the International Cartographic Association (ICA).

Mission
The main goals of the Association are:
❖ To initiate exchanges of information between members of the association and others.
❖ Conduct professional conferences.
❖ Publish professional publications.
❖ Maintain ties with institutions with similar goals in Israel and abroad.
❖ To serve as Israel's representative in the International Cartographic Association (ICA).

Staff
❖ President- Tammar Soffer- Soffer Mapping L.T.D.
❖ Vice-President- Baruch Peretzman- Survey of Israel
❖ Secretary-Treasurer- Oren Raz, Central Bureau of Statistics
❖ Audit Committee- Adi Ben-Nun, GIS center, Hebrew University in Jerusalem
❖ Past President- Prof. Amatzia Peled, Haifa University
Activities in Israel, 2015-2019

Conferences
The ICS holds an annual conference in collaboration with the Israeli Society for Photogrammetry and Remote Sensing. These conferences are a full day gathering, consisting of four sessions- two for each society.

For conference programs, abstract booklets and presentations, please check out our website:

❖ 2018 conference- https://isrcartogis.wixsite.com/isrcartogis/2018

ICA Activities in Israel
A workshop on "Mapping in the Cloud: Application Programmer Interfaces (APIs) for Mapping" was conducted in collaboration with the ICA Commission on Maps and the Internet and the Hebrew University in Jerusalem. The workshop was led by Michael P. Peterson and Rex G. Cammack of the Department of Geography / Geology, University of Nebraska at Omaha.

Children's Map Competition
Israel renewed its participance in the Barbara Petchenik Childrens' Map Competition in 2015, after many years of absence. The ICS, in collaboration with the Ministry of Education, conducted two national competitions in 2017 and 2019. The winning maps were sent to participate in the international competition at the International Cartographic Conference (ICC) in Washington D.C., U.S.A. in 2017 and in Tokyo, Japan in 2019.
National winners of the 2017 competition:

- **Save Earth from Global Warming**, Noa Danino, Age 12, Ginsburg HaOren School, Yavne
- **Muli-Cultural Meal**, Atalia Elyasin, Roni Brown, Shira Leshem, Age 14, Junior High School Katzir Bet, Rehovot
- **Global Plate**, Elay Levi, Ori Segev, Nir Makov, Age 14, Mekif Alef Junior High School, Beer Sheva
- **Earth**, Siwar Khateb, Age 14, Miriam Baouardy Elementary School, Iblin
- **Stop Fighting**, Bar Erenburg, Age 14, Mekif Z Hakiria School, Ashdod
- **Flying Around the World**, Ben Adler, Age 10.5, HaReut Elementary School, Karmiel

Israeli children’s maps displayed at the ICC 2017 Washington D.C., U.S.A.

Award ceremony at the 2018 conference Tel Aviv-Yafo, Israel
National **winners** of the 2019 competition:

*Around the Sinking World*, Adi Levy, May Zimerman, Age 12, Hadera High School- Beit Eliezer

*The Energy Consumption*, Nikol Meller, Age 13, Savionim Middle School, Yehud-Monoson

*World Wild Love*, Yael Kadosh, Age 8, HaYovel School Tel-Aviv

*Advanced with Maps*, Hanen Samer Omar, Age 11, Bir El-Sikka School, Zemer

*The Roman City of Caesarea*, Aws Matanie, Ayah Zmero, Zena Khateeb, Age 12, AlSalam School, Qalansawa

*Global Brain*, Alexandra Agoshkov, Age 13, Nili School, Zikhron-Ya'aqov
Participation in ICA events

Membership and General Assemblies
The ICS is the representative in Israel that is responsible for paying the ICA membership fees, and therefore represents Israel at the ICA general assemblies with full voting rights. Israel has participated in all ICC’s since 2015, including sending representatives to the general assemblies in 2015 in Rio de Janeiro, Brazil and 2017 in Washington D.C., U.S.A.

Judging for the Barbara Petchenik Childrens' Map Competition
As Israel is a full member of the ICA, the ICS was also on the judging committee of the international competition.

World Cartographic Forum
The World Cartographic Forum was founded in 2017 as a body within the International Cartographic Association to encourage national cartographic/mapping societies to discuss issues such as membership retention and organizational change, to share expertise and good practice, and to build international links between societies. The ICS served as Israel's deligate in the inaugural meeting in Washington D.C.

International Cartographic Exhibition
The ICS has taken active measures to ensure that Israel is represented at the ICE. This includes organizing and authorizing the material from all of the participants from Israel, the coordination with the local organizing committee and setup of the exhibition.

2015
Map exhibition, ICC Rio de Janeiro, Brazil
- State of Israel- Apartment Value in Localities with 2,000 Residents and More, ICBS.

Atlases
- Society in Israel Report- The Large Cities at a Glance- Compendium of Maps, ICBS.

Digital service
- Statistical Data from Israel on ArcGIS Online, ICBS.
2017
Map exhibition, ICC Washington D.C., USA

- Cartography for Land Use- Haifa Metropolitan Area, Israel, ICBS.
- Apartment Density- Tel Aviv-Yafo, Israel, ICBS.
- Jerusalem City Map, Survey of Israel.
- "Makhtesh" Topographic Map, Survey of Israel.
- Automatic program for cartographic city map paper prints. Changing from edited maps to automatic production maps, Survey of Israel.
- Raised-relief map of Israel with major Biblical / Christian sites, Touch-Israel®, Israel.
- Raised-relief map of Israel in Biblical Times, Touch-Israel®, Israel.
- Jerusalem- Sites and Institutions, Soffer Mapping.
- KKL-JNF Is Israel, Our Map of Achievements, KKL, Jewish National Fund, Cartography by Soffer Mapping.

Charts
- Mifratz Hefa (Haifa Bay), Survey of Israel.
- Mediterranean Sea – Israel, Survey of Israel.

Atlases

Other cartographic products
- Symbols and Abbreviations used on Nautical Charts, Survey of Israel.

Educational cartographic products
- Student Chart, Survey of Israel.
2019
Map exhibition, ICC Tokyo, Japan

- **Touring Map Dead Sea Area & Masada**, Blustein Maps & More (Mapot Veod), Israel.
- **Shomron Tourism and Trails Map**, Blustein Maps & More (Mapot Veod), Israel.
- **Friendly Negev Desert**, Blustein Maps & More (Mapot Veod), Israel.
- **Old City of Jerusalem**, AD-OR, Israel.
- **Raised-relief map of the holy Land**, Touch-Israel®, Israel.
- **Tel Aviv- Tourist Map & Guide of Tel Aviv-Yafo**, MAPA - Mapping and Publishing LTD.
- **Jerusalem- Tourist Map & Guide of Jerusalem**, MAPA - Mapping and Publishing LTD.
- **Maktesh Crater Land- Israel**, Oren Raz.
- **Children's World Map**, Orgad Maps.
- **Physical Map of Israel**, Orgad Maps.
- **Illustrated Map of Israel**, Orgad Maps.

**Atlases**

- **Gold Atlas- Road and Street Atlas of Israel**, MAPA - Mapping and Publishing LTD.

**Other Cartographic Products**

- "**Sweet Advisor" Chocolate Street Map of Tel-Aviv-Yafo**, Strauss-Group LTD.

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Facebook: [https://www.facebook.com/IsrCartoGIS/](https://www.facebook.com/IsrCartoGIS/)
Survey of Israel

Mrs. Shirly Goldner, Head of Cartography Department
Mr. Eran Keinan, Deputy Director General for Mapping and GIS
Mr. Ronen Regev, Director General

Portrait

The British Mandate of the League of Nations for Palestine originally founded the Survey Department in 1920. The main goal of the Survey Department was to establish the geodetic infrastructure and survey the land in order to settle the land based on the Cadastre by the Torrance principle. Today the Survey of Israel (SOI) is a modern government agency for Mapping, Geodesy, Cadastre and Geoinformatics. The SOI consists of four different professional divisions:

1. Geodesy
2. Cadastre
3. Mapping and Geoinformatics
4. R&D

Since 1990 the SOI manages the government’s joint Committee for Geographic information Systems. As part of the committee’s work, 44 government ministries and public bodies are involved in promoting the coordination of 6 major fields: Municipal, Projects and data collection, Technology and Standards, GIS-IT, Meta data, emergency and Nautical information.

Introduction

The Survey of Israel produces mapping products required in the fields of security, emergency services, environmental protection, tourism, construction infrastructures and more. The mapping products are produced in various scales, sizes and forms (digital, paper etc.).

As part of the procedure to generate mapping products, the cartography department uses coordinate networks, map projections, accuracy standards, Gazetteer and symbols. All prepared by the Survey of Israel.

The SOI maps are a product of the National Topographic Database (NTDB) and the National Cadaster Database (NCDB). The NTDB contains topographic data encompasses the whole state of Israel. The NTDB is derived from aerial photographs at the 20-50 cm/pixel GSD and revised once every 2-3 years. The Cadaster Database that encompasses the whole state of Israel is derived from cadaster maps and mutation plans and is revised once a day.

Our mission is to provide customer satisfaction by creating cost effective, accurate, readable and reliable maps. Our vision is to plan, prepare and lead the transformation of map production to a new era of automation. Our main goal is to provide high quality maps of all types that can be combined with other geographical and graphic data.
**Procedures**

The Survey of Israel (SOI) uses commercial tools to produce up-to-date cartographic maps covering the state of Israel, by combining automatic and manual procedures. Today we are in a transition stage, moving from manual map-making to an automatic production line.

The Survey of Israel's cartographic department, with its expertise in cartography, geographic information systems and publishing, has designed and developed an application for generating high-quality and up-to-date city maps at the touch of a button.

Today, the SOI is designing and developing an application to generate topographic maps. This application will be ready by the middle of 2020.

In order to produce topographic maps today, the SOI uses semi automatic procedures creating three separate databases on 1:25K, 1:50K and 1:100K scale. Each schema receives updates from the NTDB once every three months. Each feature derived from an automatic update process, containing generalization rules and represented symbol, is manually updated according to its scale.

In the future, the SOI plans to build a Digital National Atlas of Israel as part of its Portal, providing numerous data themes at various scales with interactive maps.

**Products**

The map products are available in hard copy (70cm X 100cm) and digitally in GeoPDF and GeoTIFF format. Most of the map products are available in Israel TM grid Projection and are updated at least every year. All maps are available in Hebrew and some maps are in English, Arabic, French and Russian.

Each map has Cartographic GIS layers covering the entire State of Israel. These vector layers include transportation layers, building layers, Infrastructure layers, land cover layers, relief layers, hydrographic layers and annotations. All layers have representation symbols representing each scale.
Our main map products:

1. **Topographic maps at 1:25,000**
   
   Vector and raster maps covering the entire State of Israel. The maps are a mosaic data set divided into 109 parts. They provide an excellent overview of specific locations on a 1:25,000 scale and are especially useful for hiking, land development and planning, asset management, environmental impact analysis, vehicle routing and more.

2. **Topographic maps at 1:50,000**
   
   Vector and raster maps covering the entire State of Israel. These maps are a mosaic data set divided into 28 parts. They provide an excellent overview of specific locations on a 1:50,000 scale and are especially useful for hiking, land development and planning, asset management, environmental impact analysis, vehicle routing and more. The maps are available in English and Hebrew.

3. **Topographic maps at 1:100,000**
   
   Vector and raster maps covering images of the entire State of Israel. These maps are a mosaic data set divided into 22 parts. They provide an excellent overview of specific locations on a 1:100,000 scale and are especially useful for planning, environmental impact analysis, vehicle routing and more.
4. **Hiking maps**

Vector and raster maps covering images of the entire State of Israel. These maps are a mosaic data set divided into 17 parts. They provide an excellent overview of specific locations on a 1:50,000 scale. These maps are the most popular hiking map in Israel produced as a joint venture with the Israel Trail Commission at the Society for the Protection of Nature in Israel.

5. **City maps**

Vector and raster maps on a scale of 1:2,500 - 1:15,000 covering the entire State of Israel. These maps are a mosaic data set divided from all cities (big and small). They provide an excellent overview of the city and include a street index. Map themes: tourist maps in various languages including tourist interest points; Professional maps with Blocks - updated to the current day of production; Emergency maps for security forces.

6. **The old city of Jerusalem map**

Raster map covering the old city of Jerusalem with an Ariel photograph inserted outside of the city walls. The map is available in English and Hebrew. **Presented at ICC 2017, Washington D.C.**
7. **The New Atlas of Israel**

The National Atlas of Israel offers a broad geographic perspective of the physical and human landscape of Israel. The atlas has come about through cooperation between the Survey of Israel and the Department of Geography at the Hebrew University of Jerusalem. It integrates the activities of the Ministry of Education and Culture to promote and enhance the instruction of geography in the Israeli educational system. The New Atlas of Israel pictures the history of the Jewish people and especially their return to their homeland in the last century and the building of Jewish state. The Atlas is available in English and Hebrew. 

*Presented at ICC 2017, Washington D.C.*
8. **State of Israel at 1:250,000**

Vector and raster maps covering images from the entire State of Israel. The maps are published in two sheets: North and South. They provide an excellent overview on a 1: 250,000 scale. The maps are available in English and Hebrew.

Map themes: Tourist maps, relief maps and road maps.
9. **State of Israel at 1:400,000**

Vector and raster map covering images of the entire State of Israel. The map provides an excellent overview on a 1:400,000 scale. The map is available in Hebrew, English, Arabic, French and Russian.

10. **Geological map at 1:250,000**

Vector and raster maps covering images of the entire State of Israel. The maps present the surface geology of Israel, in two sheets: North and South. Rock formations are shown by name and geological period. The maps also includes faults and plutonic features. The geological information was provided by the Geological Survey of Israel (GSI).
11. **Nautical charts**

The Hydrographic section, established in 1998, insures navigation safety in the territorial waters of the State of Israel. The products, produced from the Nautical Information System (NIS), are subject to international quality control standards. Products include Vector charts covering images of the territorial waters of the State of Israel. Our main products: Nautical paper charts; Electronic Nautical Charts (ENC’s); Nautical workbooks Publications.

12. **The State of Israel Gazetteer**

An official, comprehensive list of distinctive places in Israel, including feature names and location information. All names are available in Hebrew and English.

13. **The National Map Archive of Israel**

A library of 40,000 historical, antique and unique maps starting from the 16th century covering the State of Israel, the middle east and the world. The library maps are scanned and available in English and Hebrew.
14. Cadaster maps

Vector and raster maps covering images of registered blocks and parcels of the entire State of Israel. The Cadaster Database is a geospatial database that includes border markers and points of parcels and blocks including metadata of all classifications. The blocks and parcels are updated daily using different cadaster procedures. It is possible to view or download the original files on the internet. The information is available free of charge.
15. Govmap - Israel's national geo-spatial portal - www.govmap.gov.il

The Survey of Israel's national geo-spatial portal contains various governmental and public information in layer form and provides extensive applications of various aspects such as planning, climatology, transportation etc. The Israeli national geo-portal has the ability to store user created content and maps. This ability encourages small governmental agencies to use GIS technology for managing their assets and operations. This geo-portal provides a wide set of tools for data sharing and integration among governmental agencies and the public.

Contact information
E-mail: mapinfo@mapi.gov.il
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Fax: +972-3-5610866
Address: Head office- 1 Lincoln St. Tel-Aviv PO Box 14171 postal code 61141, Israel
Portrait

The Central Bureau of Statistics (CBS) was established several months after the establishment of the State of Israel, as an autonomous unit within the Prime Minister's Office. The establishment of the CBS was a direct continuation of the activities of the statistical departments of the British Mandate government, and the Jewish Agency for Israel which operated during the period of the Mandate.

Mission

Geography is expressed in statistics in the form of analysis and presentation of data related to human activities such as demography, agriculture, transportation, education, etc., and geophysical characteristics such as precipitation, topography and land use. The findings are distributed as a table, chart, or uniquely as a GIS layer or a map. The geographical aspect of the CBS data using GIS enables a unique analysis at different spatial levels - from the state and the district level to the city level and the statistical area, and enables the identification, analysis and presentation of unique spatial connections between different phenomena.

Geography and Statistics

Geography is expressed in statistics in the form of analysis and presentation of data related to human activities such as demography, agriculture, transportation, education, etc., and geophysical characteristics such as precipitation, topography and land use. The findings are distributed as a table, chart, or uniquely as a GIS layer or a map. The geographical aspect of the CBS data using GIS enables a unique analysis at different spatial levels - from the state and the district level to the city level and the statistical area, and enables the identification, analysis and presentation of unique spatial connections between different phenomena.

The GIS sector is responsible for producing GIS and other geographical products. The sector supplies a vast digitized spatial infrastructure database and geocoding services for the Bureau's needs such as census,
services for the different units in the Bureau and service to external clients. Thematic maps are published online and are free of charge.

**Statistical Abstract of Israel- Map Section**

The CBS's flag publication holds a unique map section with about 50 statistical maps of Israel, ranging a wide variety of topics such as demography and households, health, education, environment, welfare, geophysical characteristics etc., matching most of the thematic chapters of the abstract itself. This map series uses an identical template with changing data.

All maps are published online in PDF format, and are accompanied with an excel spreadsheet that contains the map data. Downloading the maps and data is free of charge.

The map section is updated annually on the Jewish New Year in separate Hebrew and English versions.

**Interactive Maps**

The Bureau's website holds interactive map portals on various subjects, including: traffic accidents and traffic counts, construction statistics, census and local authorities. The CBS's new website holds a map engine that is connected to the general database and enables queries and thematic maps production.
Interactive Maps on GIS Online

This interactive portal contains services, maps and apps with hundreds of fields of information, starting from the 2008 census, to current statistical data and administrative divisions.

Presented at ICC 2015, Rio de Janeiro

Thematic Maps Publication and Research

The GIS sector produces various thematic maps for CBS publications. Such maps present statistical data on administrative divisions, from districts to census areas on the municipal level. In addition, ongoing research is carried out to implement advanced methods of thematic mapping, using spatial calculations to enable geographical presentation of data at lower geographical levels, which cannot be mapped individually due to confidentiality issues. Such interpolations may result in "thematic topography", such as in example attached or 3D mapping.

Thematic maps may be found through the map search engine.

Presented at ICC 2017, Washington D.C.
Map Exhibitions

Throughout 2015 a map exhibition took place, presenting 200 maps of nationwide and specific city statistical maps. This exhibition was based on a CBS publication- "Society in Israel No.7- Map Compendium" published in 2014. The exhibition was presented at the Knesset (House of Parliament), Hebrew University in Jerusalem, Tel Aviv University, Haifa University, Bar-Ilan University and at the Local Authorities and Statistics conferences.

Land Use Maps

In 2018 a set of 250 land use maps was created for every local authority in Israel. The maps were published on each profile of each local authority.

These maps are based on a nationwide project of land use mapping, conducted by the CBS.

The project was also covered in a "Statisti-lite" pamphlet which contained national and metropolitan maps as well (Hebrew only).
**Immigration maps**

This set of maps shows the flow of internal national incoming and outgoing traffic of people to and from major cities in Israel. These maps were published under the cities' profiles in the "Local Authorities" publication and in the "Society of Israel Report No.10" in 2019.

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**Geographic Products Catalog**

The Geography-GIS sector maintains a geographical product catalog, listing all of the geographic products that are available to the public, such as GIS layers, Maps, relevant key tables and more. Each item has a code so the Bureau's information desk can assist in tracking down the right product for every need.

**Contact information**

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Website: [https://www.cbs.gov.il/EN/Pages/default.aspx](https://www.cbs.gov.il/EN/Pages/default.aspx)

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Fax: +972-2-6521340

Address: Central Bureau of Statistics, 66 Kanfei Nesharim St., P.O box 34525, Jerusalem 9546456, Israel
The Eran Laor Cartographic Collection is a physical and virtual collection of maps. The heart of the collection comprises ancient maps, atlases and travel books to the Holy Land and as such, it is the largest of its kind in the world. The collection also includes maps and atlases of other locations. In addition, the collection includes scientific literature on the Holy Land, studies about the historical geography of the Holy Land, Bible dictionaries, and copies of early Bibles that feature maps.

The main part of the collection is the maps which were donated to the library by the late Eran Laor. Most of the map collection is available through the library website. Additional maps from the collection are posted to the site on an ongoing basis. As part of its undertaking to create a digitized resource for Holy Land maps, the National Library is now working to expand the digitized collection with the goal of bringing together many additional maps of the Holy Land that are not part of the collection but exist in other libraries and collections, thus creating a comprehensive collection of maps of the Holy Land.

The Physical Collection
Most of the items in the collection were donated by the late Eran Laor in 1975. Together with Shoshana Klein, Laor compiled a catalog of the map collection entitled Maps of the Holy Land: "Cartobibliography of Printed Maps, 1475-1900", published in New York in 1986. The heart of the collection includes 1500 ancient maps of Jerusalem and the Holy Land, alongside ancient maps of other parts of the world. The collection also includes surveyor maps of Eretz Israel beginning in the mid-19th century, as well as modern maps of Israel, cities in Israel, and neighboring countries prior to the establishment of the State and to this day. The maps in the collection are in various European languages, as well as in Hebrew, Yiddish and
Arabic. In addition, the collection includes companion works on the history of cartography, as well as academic journals and reference books. All of the maps in the collection are cataloged on-line. In addition, the bibliographic entries for the ancient maps of the Holy Land and Jerusalem, as well as for all of the other scanned maps, include a link that enables direct access to the map. The collection serves as a leading resource for students and scholars in the disciplines of ancient and modern cartography, as well as in other realms, including historical geography, general history, art history, Jewish history, the history of Israel and the Diaspora, architecture, urban planning, and Jerusalem studies. Among those who make use of the collection are scholars, curators, students and visitors from Israel and around the world.

Contact information

E-mail: Ayelet.Rubin@nli.org.il

Website: http://web.nli.org.il/sites/nlis/en/Maps/Pages/About.aspx

Address: The National Library of Israel, Edmond J. Safra Campus, Givat Ram, POB 39105 Jerusalem, Israel
Maps

Of the 70,000 maps in the collection, about half are maps of the world and half are maps of Israel.

World Maps: global and regional maps as well as maps of countries and cities. The maps are of different types and subjects, including maps of the world on a 1:1,000,000 scale, maps of major cities in Europe, topographical maps, urban and national maps of the Middle East and so on. There are detailed maps from different time periods for some countries.

Maps of Israel: A map made during Napoleon's military campaign in Egypt and the Land of Israel (1799) is the chronological starting point for the collection, published by many different bodies:

- Governments that controlled the area, their armies and auxiliaries - the Turks, Germans, British and French
- Researchers and travellers, such as the British Foundation for the Study of Israel
- Various commercial bodies
- The Survey Department of the Mandate government; and from the founding of the State, The Survey of Israel, whose earlier names were the Survey Department and Survey Branch.

The collection contains maps of many scales: alongside booklets showing the Land of Israel are detailed maps of small settlements and villages that depict houses, courtyards, wells, the function of structures and use of the land.

A substantial portion of the maps belongs to a systematic survey series begun during the period of the Mandate. Included are comprehensive maps on a 1:100,000 scale carried out in a number of series commencing in the 1930s; comprehensive maps on a 1:20,000 scale also begun in the 1930s and continuing until the end of the 1950s; and urban maps of the larger cities - Jerusalem, Tel Aviv-Jaffa and Haifa on a scale from 1:10,000 to 1:1250. Smaller
cities were mapped in detail by the Mandate government: villages and small settlements on a scale between 1:4000 and 1:600.

In the early days of the State, Mandate-era maps continued to be printed and updated incorporating changes in settlements and roads. Later "blue and white" updates were published by the State of Israel. The topographical 1:20,000 scale series was terminated in the 1960s and maps began to be produced on a 1:50,000 scale, a system which has continued to this time and which has been augmented by the 1:100,000 topographical series. The comparison of maps from different periods enables researchers to analyze the development of the country and its settlement.

As well as the map series, the collection includes numerous individual maps from general maps to more detailed varieties such as: urban maps, topical settlement maps.

**Atlases** (about 350 atlases)

Atlases are on the open shelves, except for rare reserved material. The library has a range of world atlases published from the end of the 19th century and other atlases from a variety of publishers and in a variety language: regional atlases, national atlases of different countries and topical atlases: economic, historical, and such like. In the collection can also be found digital atlases on CD-roms that can be viewed on the computers in the Map Department.

**Wall Maps** (about 680 wall maps)

These maps are intended for instructional use. The collection contains historical, physical and political maps on a wide range of subjects. Some of the maps were designed by the Department of Geography for specific course use. Wall maps are lent to academic staff for a semester, and it is recommended that they be reserved in advance.

**Maps of the Jewish National Fund** (about 8000 archival maps)

This unique collection is the property of the JNF and has been deposited in the Hebrew University for the purposes of study and research. The library has prepared a detailed catalog of the collection which consists of hand-drawn, archival documents. Most of the maps were prepared by the JNF for its work in purchasing land and preparing it for settlement and regional development. The archive has nurtured a steady stream of articles, research papers and numerous books.

As the JNF maps are rare documents, they are at the disposal of researchers
and advanced research students only. They can be viewed digitally on the computers in the Map Library only.

**Why Study Geography?**

Studying Geography at the Hebrew University will equip you with a broad and integrative view of the human and physical process that fashion our environment. You will be exposed to **Urban and Economic Geography, Historical and Cultural Geography, Physical and Environmental Geography, Transportation, Tourism, Cartography, Remote Sensing, GIS and Geoinformatics.** A grounding in geographical and spatial skills presents many employment opportunities in the fields of urban planning, environmental and resource management, transportation planning and management, spatial analytics and geoinformatics, social and community planning and education.

The Department of Geography at Hebrew University combines lectures, group project assignments, clinics and lab classes, field work, site study visits and study tours abroad in a stimulating scientific environment. The first year of study is devoted to introductory mandatory courses and in subsequent years each student complies their own combination of elective and methodological courses. We offer a **Geoinformatics track** option to outstanding students from the second year onwards. This provides the theoretical, technical and applied tools for spatial data analysis and geo-computational skills.


**Contact information**

Map Librarian: Krina Doekes Brandt

E-mail: msl_map@savion.huji.ac.il, geography@savion.huji.ac.il

Website: [https://en.mslib.huji.ac.il/book/map-library](https://en.mslib.huji.ac.il/book/map-library)

Address: The Department of Maps is located in the main library, Mt. Scopus, Jerusalem 9190501.

Telephone: 02-5883422
The library of the Department of Geography is a sub library of The Neiman Library of Exact Sciences and Engineering and its collections include around 10,000 books and approximately 300 journals in the fields of geography, atlas, aerial photos, historical images and more. The Micha Granot maps library is part of the library and contains one of the biggest maps and aerial photos collections in Israel. The library caters to students and faculty and gives reference services to the public.

The maps library includes the following collections:

**Land of Israel maps**
Maps from the end of the 19th century up until today. Scale 1:2,500 to 1:500,000.

**City maps**
Street names, institutions, parks, public transit, tourism sites. Israeli cities maps. A large collection of maps of Tel-Aviv-Jaffa (end of the 19th century up until today), Maps of Haifa and Jerusalem. Maps of other cities.

**Villages and towns maps**
The collection includes maps of Arab villages from the period of the British Mandate. Town maps (towns, kibbutzim) and mainly maps of land use are all in folders in room 208.

**Maps collection PEF from 1880.** The library also has scanned photos of these maps.

**German maps from WWI**

**Madaba and Jacotin maps (copies)**

**Copies of ancient European maps**

**World maps**

**Country and city maps: street names, institutions, parks, public transit, tourism sites.**

**Arab maps**
Includes maps that were looted in the Yom Hakkipurim War. Donated by colonel Israel Granit: maps in Arabic mainly of Egypt and Sinai

**Other maps,** such as Geological maps, Cadastre maps, Maps of land, Tourism and hiking maps, Bathymetric chart And Administrative maps.

A recent addition - The Moshe Brawer Atlas Collection.
Wall maps
Location: On the walls around the library.

Ancient maps:
The Bloch and Kaplan map collections, including original ancient maps from the 16th century forward.

Contact information

Library manager: Neta Gindi-Sivan

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Phone: +972-3-6409044
The Tel Hai Historical Map Archive in the Tel Hai Academic College is expanding with new fascinating collections of maps from different periods. The extensive archive is located in the new library in the eastern campus, and holds over 20,000 maps, out of which 2,600 are scanned and key coded. The maps describe various topics related to the history of the land in the last 120 years, with an emphasis on the Upper Galilee region where the college is located. The beginning of the collection is a donation from Mr. Eitan Israeli from Kibbutz Amir. Since, the collection has expanded. Many maps were donated by private people or other bodies. Some of this material is unique and doesn’t exist anywhere else in the world.

Among new collection additions is the Storman House Museum map collection, portraying the Jewish migration to the area in the mid 20's to 60's of the 20th century.

Another collection is enemy maps that describe the wars in the area from their perspective.

**Digital archive**

Based on the concept that maps should serve for documentation and research, each map is scanned in high resolution, key coded and catalogued. Recently, an information system was implemented, allowing the showcase of geographic layers with maps and areal photos in the background with a time slider. The digital map collection serves as a research tool for researches in Israel and around the world.

**Contact information**

Library manager: Dr. Alon Margalit

Map archive manager- Shalom Termichi

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Yad Izhak Ben-Zvi Map Archive

Yad Izhak Ben-Zvi, established in 1969, is an institution commemorating Izhak Ben-Zvi, the second president of Israel. It is devoted to research and education in two areas: the history of Eretz Israel, and of the Jewish communities in the East. The institution also maintains an academic publishing house, a bookstore, and a school that provides training, courses, and educational programs.

Another unit deals with curation and visual documentation. Yad Ben-Zvi also has a library and map and photo archives. The map archive holds about 6000 maps. These include mainly series from the Mandate period and from the period of the State of Israel on scales 1: 20,000 – 1: 100,000. However, there are also historical maps, maps of localities and regions, thematic maps (transportation, tourism, etc.), as well as archaeological maps and plans. We also maintain a copy of the Palestine Exploration Fund maps (ca. 1878).

A separate collection includes maps that were used for land survey and parcellation, most relating to Jerusalem and its environs, maps of Jerusalem on scales 1: 2000 – 1: 1250, and maps of other settlements. The map collection is recorded in an Excel file, most of it is not yet digitized and is not accessible on the library's website or in its catalog. The library holds a large collection of books focusing on the historical geography of the Land of Israel and Jerusalem.

Annexed to the library is a digitized photo archive. More than 100,000 photographs from the Land of Israel and the Jewish communities are available on the archive's website (www.israelalbum.org.il). The archive site is now being upgraded and will also provide the ability to select images by geographic region (and not just through a textual search). Another project is the "tour guides" website which will make accessible photo collections and documents from trips conducted by tour guides who were active in the Land of Israel and its surroundings in the twentieth century.
The research conducted at Yad Ben-Zvi, and especially in the the Institute for Research on Eretz Israel, has led to the publication of several books dealing with maps and mapping issues, mostly on the Land of Israel and its areas, or on infrastructure issues. Among them are Rina Reinitz-Idan, Netivim LeIsrael (Routes to Israel) (2018) dealing with the heritage of the Public Works Department and Netivei Israel; Rechav Rubin, Portraying the Land : Hebrew Maps of the Land of Israel from Rashi to the Early 20th Century (2014), which was published in an English edition in 2018.

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The map collection includes flat maps, wall maps, satellite photographs, aerial photographs, charts, atlases, globes and digital collections.

**Loans:** Most maps are loaned for 2 weeks.

**Digital Collections in the Library's Digital Media Center:**

The [collection](http://lib.haifa.ac.il/index.php/en/projects-collections-eng/about-coll-eng/maps-eng) includes images and maps in the areas of physical geography, human geography, environmental studies and Israeli geography.

The [Aerial Photos](http://lib.haifa.ac.il/index.php/en/projects-collections-eng/about-coll-eng/maps-eng) of Israel 1917-1919 is a collection photographed by German pilots who fought alongside the Turks in World War I and were the first to document Israel's landscape from the air. The photos were useful tools for mapping Israel and its cities.

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Bar Stav Collection of Ancient Maps of the Holy Land

Bar Stav Collection of ancient maps of the Holy Land includes hundreds of ancient maps of the Holy Land that were printed from the 16th to the 19th centuries.

Some of the maps in the collection are more familiar, made by well-known cartographers such as Ortelius, Mercator, Münster and others, some of which are less familiar and others are extremely rare maps, such as a mute map of the Holy Land that was used to study the historical geography of the Holy Land and the division of the land between the tribes of Israel as part of the study of The Old Testament.

The collection is a private collection run by Pelet Bar Stav - a historian, collector of ancient maps of the Holy Land for over twenty years, a researcher and lecturer in this field.

A link to an article he wrote about collecting ancient maps of the Holy Land: https://blog.nli.org.il/a-map-is-worth-a-thousand-words/

A link to an article he wrote about myths and ideologies as expressed in ancient maps of the Holy Land: https://blog.nli.org.il/myths-and-ideologies/

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A mute map of the Holy Land, 18th century, unknown cartographer
Ad-Or- Mapping the Old City of Jerusalem

It is very complicated to map a dense city with many religious institutions such as the Old City of Jerusalem. The only way is to walk all the streets and get to know every church, synagogue, mosque, hotel and hostel. It is not possible to make precise mapping only from an aerial photograph and few people in the world know the Old City of Jerusalem, the holiest city in the world.

Presented at the International Cartographic Exhibition, ICC Tokyo 2019.

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The purpose of the "Amud Anan" is to display maps of the Land of Israel and to create an online geo-encyclopedia that will be accessible to the public, free of charge. All this in order to be a tool for travelers, students, and lovers of the Land of Israel. The maps on the site are a 1:50,000 scale topographical map and a 1:250,000 map of the Israel Mapping Center. The site also contains an ancient map of the British Foundation for the Exploration of the Land of Israel from 1880, which was scanned from the collection of Mr. Dan Yardeni. You can view a continuous map of Israel, switch between maps, draw routes and save them to a file, and receive a PDF file for printing on your home printer.

The marked paths that appear on the site were measured in the field by GPS, most (but not all) by a field motorcycle, and were received courtesy of Mr. Noam Etzioni. Not all the existing paths in the area have been mapped, and some of the marking may not be up-to-date. There may be errors in this material, and we will be happy to receive corrections and updates based on an examination in the field. Some of the trails are mapped by a GPS device manufactured by Magellan, which was supplied to us by the Paz Logistics Company and will soon be able to add track recordings for better mapping.

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"Avigdor Orgad Maps" is run by Avigdor Orgad, a professional cartographer, MA of the Geography Department at Tel Aviv University, with over 30 years of experience in map and globes production and editing.
Avigdor's' maps are sold in his unique map store, selling cartographic products such as hiking maps, wall maps, globes and customized maps.

Popular Childrens World Map, sold in bookshops in Israel.
Presented at the International Cartographic Exhibition, ICC Tokyo 2019.

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Map shop address: 15 Bilu St., Rehovot, Israel
Blushtein Mapot Veod (maps and more) publishing specializes in map production in a wide array of fields: City maps, regional maps, tourism maps, planning maps and other maps for publication. The publishing company has vast information and tools suitable for editing city touristic data such as planning tour routes, writing and editing of municipal data and consulting services to Local Authorities in the field of mapping and sigh posting.

The publishing company offers advanced mapping solutions and high-quality printing with regard to the finest details. The long-time experience dictates a high level of production as map production requires high precision combined with advanced computer and graphics skills. Each map has a full index, updated list of institutions. International compliant symbology and an editorial team consisting of geographers, city planner and copywriter. The studio uses advanced graphic software such as Illustrator, Photoshop, InDesign and more.

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Yavne publishing has a wide variety of cartographic products:

1. **Atlases** in Hebrew are edited by Prof. Moshe Brawer for elementary schools, high schools and university students.

2. **Globes** in Hebrew edited by Prof. Brawer, produced by the world-famous Nova Rico company in Italy. High quality and precision assure years of enjoyment. The globes are custom tailored for the Israeli pupil, keeping up to date and high scientific level. Globes from the "Elite" series are lit- lights off show a physical map and light on show a political map. Globes come in 20, 26 and 30 cm diameter.

3. **Wall maps** for schools.

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GeoCartography Knowledge Group

GEOCARTOGRAPHY knowledge Group is a unique research institute that aims to provide its clients with comprehensive tailor-made solutions, using advanced and unconventional research tools and models that provide practical knowledge and insights.

The company is headed by Prof. Avi Degani and Dr. Rina Degani, along with a professional and skilled team of senior researchers with academic degrees from various fields, which enables us to reflect the company’s expertise and professional uniqueness, and emphasize its ability to integrate diverse areas of expertise.

Geo-analytical mapping

Analytical mapping is a method that uses geo-statistical and mathematical models to analyze the intensity of studied phenomena in relation to where they occur, and to translate the research findings to a visual level.

The AVISYS method applies the “theory of free space,” which argues that space should not be arbitrarily divided, but rather as a dependence of the phenomenon under study, when division is, in fact, one of the products of the analysis process.
Geokg uses extensive analytical mapping capabilities in connection with strategic work to examine economic feasibility and market potential, and to make decisions on optimal location selection from various perspectives. For example:

- Where to establish a new logistics center of a company, creating maximum savings in shipping costs
- Where to build a public institution to serve the city’s residents
- How to plan the distribution of the branches, in connection with the potential existing in different areas while avoiding cannibalization
- Where to distribute newspapers to reach maximum exposure

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Israel Hiking and Biking Map

Open hiking and biking maps is an OSM based map, PC and mobile application available, allowing the public to record, navigate and share their knowledge of their experiences when hiking or biking in the field.

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MAPA is one of the largest and most dynamic publishing houses in Israel as well as an exceptional content provider for geographic applications like: internet map servers, navigation software, command and control station, fleet management etc.' The company is composed of three creative departments: publishing, geographic databases and a website, which is the leading vacation, entertainment and leisure website in Israel, accessible to subscribers only. While each department operates independently, all join together to create unique products. Current company turnover is nearly 30m NIS per annum.

Some of the products:

The 2018 edition is the 12th edition of the Gold Atlas - the most detailed and extensive atlas of Israel and its cities. For Israel's 70th year of independence, the atlas includes a guide to 100 selected top touring spots. The Gold Atlas contains an atlas of Israel's roads full mapping of 340 cities and localities. In addition to street names, culture institutes, shopping malls, parking lots, road directionality and more, the atlas contain traffic lights and their codes and gas stations by operator.

Presented at the International Cartographic Exhibition, ICC Tokyo 2019.
Israel Touring Map in English contains 100 selected tour spots, pointed out uniquely, with all roads, cities and important sites such as nature reserves, national parks, attractions for children, historical sites, sacred places and sites you can't miss- all accompanied by an index.

Presented at the International Cartographic Exhibition, ICC Tokyo 2019.

This easy-to-read and colorful folding map of Tel Aviv comes along with a detailed guide providing concise information on, cultural events, neighborhood, festivals, sightseeing, and more. A QR code on the back of the map leads to an interactive map with details on sites mentioned in the paper map.

Presented at the International Cartographic Exhibition, ICC Tokyo 2019.
"Israel"-
Atlas of matching maps produced by "Mapa" and matching aerial photos of Israel.

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An interactive atlas with integrated analysis tools- MIND the MAP is the new marketplace to find earth's most updated geo data library. It is a simple way to explore, visualize and analyze available open and private geo data sources.

For professional and private use
Anyone who is facing decision making that could be affected by location-based data can find use in MIND the MAP – From private citizens to consultants, policy makers and data scientists.

Find geo data easily and Save up to 80% of research time
MIND the MAP saves decision makers the time-consuming task of looking for all the data they need in various and scattered data sources and geolocating the data.

Analyze your data
MIND the MAP Provides cross data Analytical Tools and Open Source Webapp Modules.

For all devices
MIND the MAP functions on desktops, tablets and mobile. You can search, analyze and share your findings at anytime and anywhere.

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API to our data
We offer REST API services to our data for developers, data scientists and startups who need the data for their applications.
Soffer Mapping L.T.D. specializes in planning, editing and production of maps for various purposes and in different formats.

The map production is done using the most advanced GIS technologies in the profession. The editing of the maps is executed at the highest cartographic standards.

The company prepares maps on various topics:
- Maps for geographic education and research books.
- Maps for travel books, history books and bibles.
- Wall maps of high quality for teaching and presentation.

Custom made black and white maps are available with a unique topographic background.

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Shvilnet L.T.D.

Shvilnet is a company for mapping, production of digital products and publishing. The company specializes in publishing printed and digital topographic maps for hikers, bicycle riders and field drivers. The digital maps are sold as applications for IOS, ANDROID, MAC and WINDOWS operating systems as software and in TwoNav navigation devices and others.

The company engages in the initiation, management and execution of mapping projects for local councils, organizations and companies.

Shvilnet has been collecting quality and unique data from the field for years, and sells vector and raster material to commercial, private and public organizations. Shvilnet data has a high added value against the existing alternatives in the market, manufacturing the best digital terrain maps in Israel.

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Systematics is the sole distributor of Esri in Israel. We are supporting more than 1,000 organizations in Israel in implementing GIS systems, and help them with their cartographic needs.

Systematics’ GIS solutions enable the adding and integration of the spatial dimension in corporate information systems, supporting organizational workflows and enhancing decision making.

Systematics provides support, implementation services and training, as well as guidance, consulting and application development services for using GIS throughout the organization.

Systematics represents a large number of spatial data suppliers (vector and raster maps, orthophoto, satellite imagery, etc.) and offers processing services and the supply of geographic information from around the world.

Systematics’ solutions have been implemented in Israel in most government ministries, in local authorities, in the military, defense, and homeland security sectors, in communication and infrastructure companies, and in the business sector.

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The Map in Israeli art featuring the best of Israel's artists

The map is a model; it is the pattern of the landscape of the homeland, echoing views, smells, tastes and memories and uniting symbolic idea and territory in an experience of personal attachment and of belonging. The exhibition presented the reciprocity between views of the homeland, the map of Israel and its creators, as expressed in its representation in culture and art.

Among the works in the exhibition are those by leading Israeli artists, including Michael Sgan-Cohen, Micha Ullman, David Tartakover, Tsibi Geva, Gal Weinstein, Efrat Natan, Deganit Berest, Farid Abu Shakra, Zoya Cherkassky, Sharif Waked, and Ariane Littman, among others. 2018.

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The Jerusalem Design Week 2019 has been held under the management of the Hansen House Center for Design, Media and Technology since 2011. Hansen House hosts a spectrum of diverse activities throughout the year to promote the design sector in Jerusalem and in Israel.

Who determined where the East is located? Is mapping a reliable, scientific tool? And who is truly responsible for the formal expression of today’s world, in the GPS era? The exhibition Orientation attempts at delineating the geographical, relative term “East”.

The story of the East begins in religious maps that sanctified it as the location of the Garden of Eden, moves through Imperialist maps that gave the modern world its shape and its perception of time, and ends (for now) with visual displays established by strong governments and powerful algorithms. The exhibition showcases various approaches to depicting earth, as illustrated by cartographers, automatically generated by computers, or displayed as works of art. These will attempt at expressing the East in an elusive world in which maps are not only maps but also a tool employed for personal expression, the definition of identity, and the promotion of ideas.

The collection of sources and attempts to illustrate the world, and the different worlds reflected from it, give rise to the tension that lies between the exploration of truth and the search for meaning, order and orientation and the subversive undercurrents, political agendas and historical processes that impact the way in which we choose to present its four corners – on a map.
Participants: Roni Levit, Nechemia Boaz & Tov VeYaffe Beit Midrash for Art and Design, Buckminster Fuller & Shoji Sado, Eric Fisher, Zak Ziebell, Andy Woodruff, Max Galka, Kyle Dropp + Joshua D. Kertzer + Thomas Zeitzoff, Stuart McArthur, Stefano Maggiolo, Yanko Tsvetkov, Ruud Bijlsma, Mike Block, WorldMapper.org, James Talmage & Damon Maneice, arke van Wijk, Kalev Leetaru

Research: Roni Levit, Elad Levit space design: Shavit Yaron

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