

# ICC 2021

Florence, ITALY

13 • 17 DECEMBER 2021

30th  
International  
Cartographic  
Conference

Florence, Italy

## EXHIBITION CATALOG





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## **30<sup>TH</sup> INTERNATIONAL CARTOGRAPHIC CONFERENCE**

Dates of the Exhibition:

December 13<sup>th</sup> – 17<sup>th</sup>, 2021 • Florence | ITALY

# **ICC 2021 INTERNATIONAL CARTOGRAPHIC EXHIBITION CATALOG**





UNIVERSITÀ  
DI TRENTO  
Dipartimento di  
Lettere e Filosofia





# INDEX

<b>Credits .....</b>	<b>5</b>
<b>Introduction .....</b>	<b>7</b>
<b>AUSTRIA.....</b>	<b>9</b>
<b>BELGIUM.....</b>	<b>21</b>
<b>BULGARIA .....</b>	<b>24</b>
<b>CANADA .....</b>	<b>33</b>
<b>CHINA .....</b>	<b>44</b>
<b>CROATIA .....</b>	<b>56</b>
<b>CZECH REPUBLIC .....</b>	<b>61</b>
<b>FINLAND.....</b>	<b>88</b>
<b>FRANCE.....</b>	<b>97</b>
<b>FRANCE_IGN.....</b>	<b>106</b>
<b>GERMANY .....</b>	<b>113</b>
<b>GERMANY_BKG .....</b>	<b>118</b>
<b>HUNGARY .....</b>	<b>127</b>
<b>ISRAEL.....</b>	<b>140</b>
<b>ITALY.....</b>	<b>144</b>
<b>JAPAN.....</b>	<b>161</b>
<b>NEW ZEALAND .....</b>	<b>179</b>
<b>NORWAY .....</b>	<b>183</b>
<b>POLAND .....</b>	<b>199</b>
<b>ROMANIA .....</b>	<b>218</b>
<b>RUSSIA .....</b>	<b>220</b>
<b>SLOVENIA .....</b>	<b>227</b>



<b>SOUTH AFRICA .....</b>	<b>243</b>
<b>SPAIN .....</b>	<b>252</b>
<b>SPAIN_IGN .....</b>	<b>276</b>
<b>SPAIN_ICGC .....</b>	<b>293</b>
<b>SWEDEN .....</b>	<b>299</b>
<b>SWITZERLAND .....</b>	<b>302</b>
<b>UNITED KINGDOM .....</b>	<b>311</b>
<b>USA .....</b>	<b>332</b>
<b>USA_ESRI .....</b>	<b>364</b>
<b>USA_USGS .....</b>	<b>374</b>
<b>Additional Products (out of the competition) .....</b>	<b>381</b>
<b>Final remarks .....</b>	<b>388</b>



# Credits



## Organizing Committee

Andrea Cantile and Elena Dai Prà (coordinators)  
Margherita Azzari, Alessandra Cristofari,  
Nicola Gabellieri, Giuseppe Scanu,  
Paola Zamperlin

## Secretariat

Andrea Marco Raffaele Pranzo

## Graphic Design

Andrea Marco Raffaele Pranzo,  
Giannantonio Scaglione

## Logistic Support

Italian Geographic Military Institute (IGMI)  
Centro Geo-Cartografico di Studio e Documentazione (GeCo) –  
Università degli Studi di Trento  
Laboratorio di Geografia Applicata (LabGeo) –  
Università degli Studi di Firenze

## Preparation of the Exhibition

Angelo Besana, Barbara Brogi,  
Valentina De Santi, Lino Di Rienzo,  
Carolien Fornasari, Giuseppe Giustolisi,  
Andrea Marco Raffaele Pranzo,  
Aurora Rapisarda, Elena Torretta

## Design and Implementation of the Virtual Exhibition

Vincenzo Bologna

## Design and implementation of the catalogue

Andrea Marco Raffaele Pranzo

## Location of the Exhibition

Italian Geographic Military Institute – IGMI  
Cesare Battisti road, no. 10 – Florence, Italy

#### Exhibitors

Austria:  
Austrian Cartographic Commission  
Belgium:  
Belgian Sub-Committee of Cartography and GIS  
Bulgaria:  
Bulgarian Cartographic Association  
Canada:  
Canadian Institute of Geomatics / Canadian  
Cartographic Association  
China:  
Chinese Society for Geodesy, Photogrammetry and  
Cartography  
Croatia:  
Croatian Cartographic Society  
Czech Republic:  
Czech Cartographic Society  
Finland:  
Cartographic Society of Finland  
France:  
Comité Français de Cartographie; Institut National de  
l'Information Géographique et Forestière (IGN)  
Germany:  
Deutsche Gesellschaft für Kartographie  
Bundesamt für Kartographie und Geodäsie  
Hungary:  
Hungarian Society of Surveying, Mapping and Remote  
Sensing  
Israel:  
Israeli Society for Cartography and GIS  
Italy:  
Associazione Italiana di Cartografia  
Japan:  
National Committee for Cartography  
New Zealand:  
New Zealand Cartographic Society Inc.  
Norway:  
GeoForum Norway  
Poland:  
Instytut Geodezji i Kartografii  
Romania:  
geo-spatial.org / Asociația Română de Cartografie  
Russia:  
Federal Service for State Registration, Cadastre and  
Cartography (Rosreestr)  
Slovenia:  
The Association of Surveyors of Slovenia  
South Africa:  
South African National Committee for the ICA  
Spain:  
Sociedad Española de Cartografía, Fotogrametría y  
Teledetección  
Institut Cartogràfic i Geològic de Catalunya  
Instituto Geográfico Nacional España  
Switzerland:  
Swiss Society of Cartography  
United Kingdom:  
British Cartographic Society  
United States:  
U.S. National Committee for ICA  
Esri  
United States Geological Survey

#### National / Affiliate Coordinators

Austria:  
Manuela Schmidt  
Belgium:  
Philippe De Maeyer, Frédérique Spitaels  
Bulgaria:  
Silvia Marinova  
Canada:  
Roger Wheate  
China:  
Brenda Xie  
Croatia:  
Miljenko Lapaine  
Czech Republic:  
Alena Vondráková  
Finland:  
Salla Multimäki  
France:  
François Lecordix  
Germany:  
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Hungary:  
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Israel:  
Oren Raz  
Italy:  
Elena Dai Prà  
Japan:  
Kaori Ito  
New Zealand:  
Roger Smith  
Norway:  
Kristoffer J. Kristiansen  
Poland:  
Tomasz Panecki  
Romania:  
Cristina Vrinceanu  
Russia:  
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South Africa:  
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Enric Camps  
Sweden:  
Märta Syrén  
Switzerland:  
Roland Schenkel  
United Kingdom:  
David Forrest  
United States:  
Aileen Buckley  
Lynn Usery

#### National / Affiliate Representatives

Austria:  
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Belgium:  
Rutger Dujardin  
Bulgaria:  
Silvia Marinova  
Canada:  
Jack Joyce, Lan Joyce  
China:  
Brenda Xie  
Croatia:  
Miljenko Lapaine  
Czech Republic:  
Vit Vozenilek  
Finland:  
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France:  
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Germany:  
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Hungary:  
José Jesús Reyes Nunez  
Israel:  
Oren Raz  
Italy:  
Elena Dai Prà  
Japan:  
Hidetoshi Ueda  
New Zealand:  
Roger Smith  
Norway:  
Øystein Dokken  
Poland:  
Tomasz Panecki  
Romania:  
Cristina Vrinceanu  
Russia:  
Daria Smolich  
Slovenia:  
Dušan Petrovič, Primož Kete  
South Africa:  
H. M. Roos  
Spain:  
Andrés Aristegui  
Enric Camps  
Sweden:  
Oskar Penje  
Switzerland:  
Mark Wigley  
United Kingdom:  
David Forrest, Alexander Kent  
United States:  
Aileen Buckley  
Lynn Usery



# Introduction

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The International Cartographic Exhibition (ICE) in Florence is organized as part of the 30<sup>th</sup> International Cartographic Conference (ICC).

All exhibits are physically displayed at the Italian Geographic Military Institute from 13<sup>th</sup> to 17<sup>th</sup> December 2021, and virtually at [www.geografia-applicata.it](http://www.geografia-applicata.it).

As usual, the Exhibition is structured according to the following categories:

1. Maps on Panels (MP)
2. Charts on Panels (CP)
3. Atlases (AT)
4. Digital Products (DP)
5. Digital Services (DS)
6. Educational Cartographic Products (EP)
7. Other Cartographic Products (OC)

As in its previous editions, the Exhibition was able to attract great interest and it encouraged a widespread participation within the world of cartography. Despite the countless difficulties of the last two years of pandemic, the thirty-two National/Affiliate Members from twenty-six different countries that accepted the International Cartographic Association's invitation to this unmissable biennial appointment, worked hard to produce and present high-quality cartographic products and services.

It is to their precious contribution that we owe the immense value of the Exhibition, whose visitors are given the chance to experience a multitude of points of view, perspectives and approaches, while virtually travelling around the world. Indeed, whereas the *fil rouge* of the Exhibition is the cartographic representation of different aspects of reality through different means and communication materials, in this edition an array of themes and focuses makes the proposed products especially interesting and provides the visitors with a varied and meaningful journey in the cartography world.

Such a diversity of cartographic products ranges from physical, political or theme-based world maps to representations of the surface of other celestial bodies, from plain topographic maps to Digital Elevation Models, from geomorphological maps to land use and land cover inventories, from historical maps to the ones designed using the most modern and advanced technologies, from tourist maps to orienteering ones. This impressive variety also applies to the other categories according to which exhibits are organised, whose peculiarities reflect countries' geographic distinctive traits, their history, their (cartographic) traditions and innovations, their aesthetics, cultural symbols, education systems and, overall, their view of themselves and of other local, regional and national identities. Wandering between the numerous map panels, exploring the digital products and services, leafing

through the atlases and learning about how cartography is, now more than ever, a useful learning tool in uncountable contexts, will be an enriching experience, from both a professional and a personal point of view, and a precious chance of exchange and interaction, which we hope everyone will enjoy.

In order to grant visibility to as many cartographic products as possible, even if exceeding the set number of entries officially being accepted from each ICA member, the Local Organizing Committee (LOC) has decided to welcome additional materials in an Out-of-Competition section, without compromising the fairness of the contest.

Furthermore, with the purpose of offering the possibility of viewing the Exhibition in a virtual way also to those who will participate in the conference with remote connections, the Exhibition has been combined, for the first time, with a specific online platform. All this was possible thanks to the cooperation between the Ge.Co. - University of Trento and the LabGeo - University of Florence, that took care, respectively, of the systematic acquisition and collection of all the cartographic products and of the design and implementation of the dedicated website.

The unexpectedly rich cartographic production presented by a number of participants to this year's Exhibition, despite current times, as well as their strong enthusiasm and interest in the event, testify the key role that cartography nowadays plays on the international scene, as both an analytical and communicative tool. This also emerges from the very high quality of the received materials, which proves the significant value accorded worldwide to the process of searching for and experimenting new and innovative representation techniques and technologies.

In conclusion, we hope that this Exhibition, set up in a moment of great difficulties in terms of logistics and connections, could nevertheless represent a moment of fertile scientific and cultural exchange and dialogue. Our aspiration is that the effort made by all of us for the success of this arduous edition will prove to be fruitful in the best enhancement and valorization of the meritorious cartographic products on display.

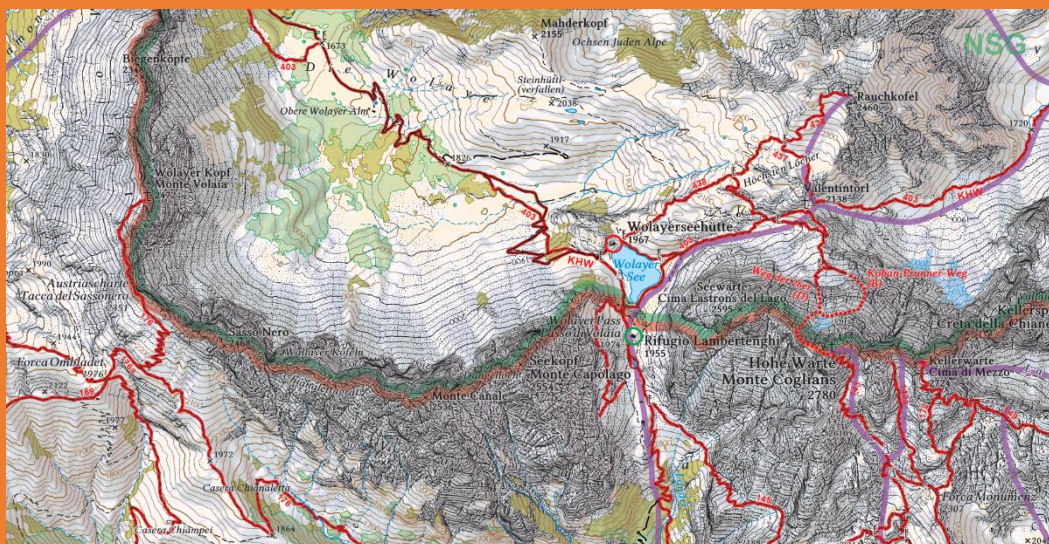
Andrea Cantile and Elena Dai Prà

# AUSTRIA

## MAPS ON PANELS

### AUT\_MP1 Carnic Main Crest [original title: 57/1 Karnischer Hauptkamm]

Type of material	Paper
Scale (if relevant)	1:25,000
Dimensions (mm)	1040 x 700
Author(s)	Werner Beer, Martin Ladner
Published by	Alpenvereineinskarten, Österreichischer Alpenverein
Date of publication	2020
Language(s) of the legend	German, Italian
Abstract/Description (in English or French; 100 words max)	Specially detailed map for summer and winter mountain climbers (mountaineers, hikers and ski tourers). The characteristics is the large scale (usually 1:25,000), high accuracy, and a great wealth of terrain detail in the high mountains (rock, rubble, glaciers, etc.). The contour interval is 20 metres. The mountaineer should therefore be able to orient himself well using Alpine Club maps, both on the marked trails or in open terrain, e.g., away from the marked routes. Combined issue with path markings and ski routes (purple ribbon), double sided. Designed with ESRI ArcGIS Pro.





## AUT\_MP2 Map for hiking, biking and ski mountaineering in Kalkalpen

### National Park

[Original title: *Wanderkarte Nationalpark Kalkalpen*]

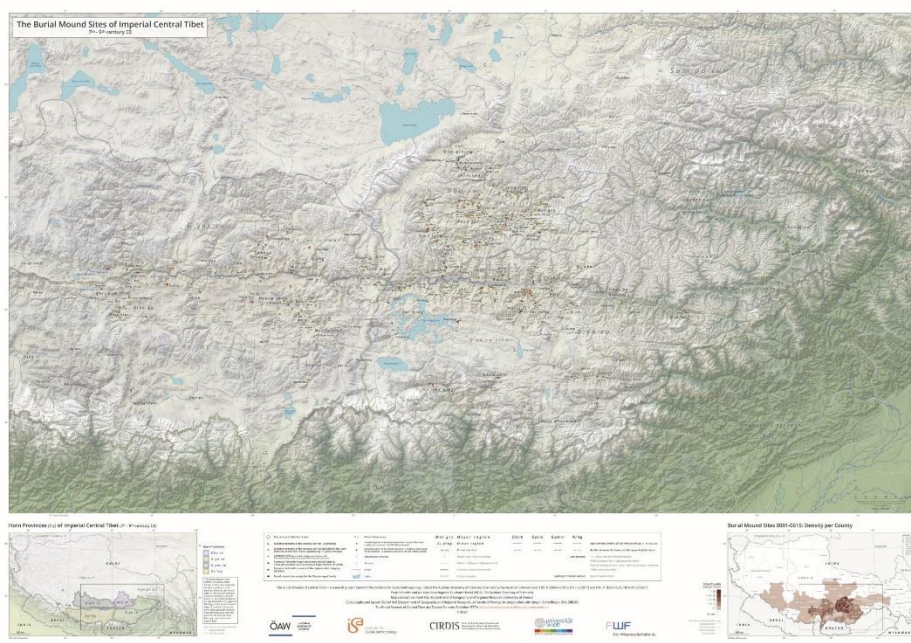
Type of material	Paper ("Sora matt plus", matte coated, 100g/m <sup>2</sup> )
Scale (if relevant)	1:35,000
Dimensions (mm)	1089 x 720
Author(s)	Nikolai Hafner
Published by	CARTO.AT
Date of publication	July 2019
Language(s) of the legend	German
Abstract/Description (in English or French; 100 words max)	The map gives detailed information for hiking, biking, and ski mountaineering. The relief representation contains generalized contour lines (brown on covered areas, black on rock and scree) with an equidistance of 20m derived from a 10m DEM based on airborne laserscanning data. Scree and rock depictions are generated automatically. The filtered relief shading derived from a 50m DEM contains atmospheric perspective and hypsometric tinting. The back of the map features six large format photographic panoramas with more than 150 labeled objects like peaks, lakes, huts, and cirques. The photographs provide an excellent insight into the natural scenery of Kalkalpen National Park.



## AUT\_MP3.1 The Burial Mound Sites of Imperial Central Tibet

Type of material	Paper
Scale (if relevant)	1:800,000
Dimensions (mm)	1148 x 800, folded to 287 x 200

<b>Author(s)</b>	Karel Kriz, Guntram Hazod
<b>Published by</b>	Austrian Academy of Sciences
<b>Date of publication</b>	November 2020
<b>Language(s) of the legend</b>	English
<b>Abstract/Description (in English or French; 100 words max)</b>	The map is the result of a cooperation between the Institutes for the Cultural and Intellectual History of Asia (IKGA) and Social Anthropology (ISA) of the Austrian Academy of Sciences and the Department of Geography and Regional Research of the University of Vienna. It illustrates the position of the more than 600 burial mound fields of the Central Tibetan region that have been registered so far by the project "The Burial Mounds of Central Tibet" at IKGA and ISA. The entries, historically related to the time of the Tibetan Empire (7th–9th century CE), reveal a tumulus landscape of enormous concentration in the relatively small geographic area of Central Tibet – the heartland of the Tibetan Empire. The 44-page supplement gives insight in the general topic of the burial mound history and includes a listing of the sites and their principal classifications.



<b>AUT_MP3.2</b>	<i>Austrian Map, Tulln an der Donau, NM-3-12-19</i>
<b>Type of material</b>	Paper
<b>Scale (if relevant)</b>	1:50,000
<b>Dimensions (mm)</b>	8100 x 5800
<b>Author(s)</b>	Federal Office of Metrology and Surveying (BEV)

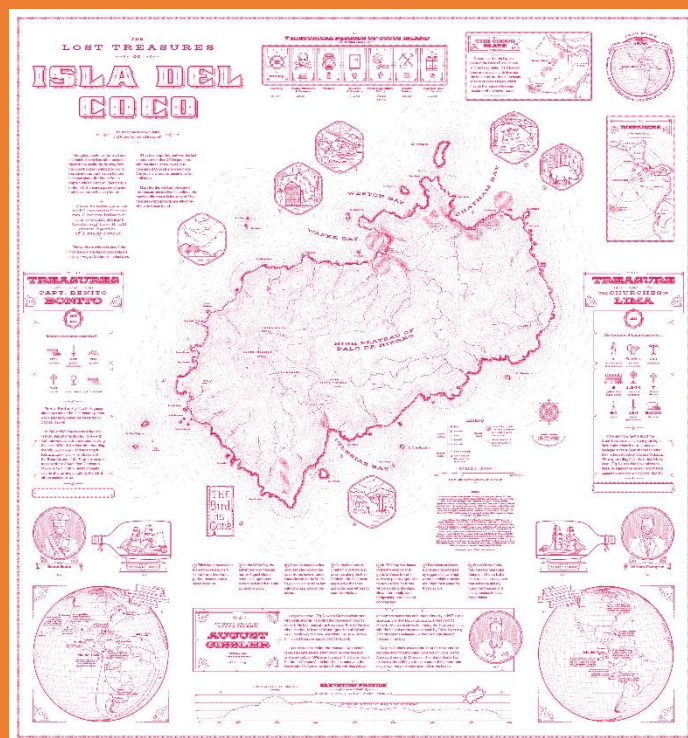
<b>Published by</b>	Federal Office of Metrology and Surveying (BEV) in cooperation with the Institute of Military Geography (IMG)
<b>Date of publication</b>	2021
<b>Language(s) of the legend</b>	German, English
<b>Abstract/Description (in English or French; 100 words max)</b>	Since 2021 the Austrian Map ÖK50-UTM has been created in a new production process. To a large extent, the cartographic model 1:50,000 - Vector (KM50-V) is automatically derived from the Digital Landscape Model (DLM) and forms the digital image of the Austrian territory in the scale 1:50,000. Furthermore, the legend has been redesigned with many new symbols and the names have been visualized with a different font and colored letters for the various types of objects. Since 2020 the Austrian Map series has been published in a new official cooperate design.



<b>AUT_MP4.1</b>	<i>The lost treasures of Isla del Coco</i>
<b>Type of material</b>	Paper
<b>Scale (if relevant)</b>	
<b>Dimensions (mm)</b>	889 x 948
<b>Author(s)</b>	Jakob Listabarth
<b>Published by</b>	North American Cartographic Information Society (NACIS)
<b>Date of publication</b>	November 2020
<b>Language(s) of the legend</b>	English
<b>Abstract/Description (in English or French; 100 words max)</b>	This map continues the tradition of innumerable treasure maps of the Isla del Coco. For centuries, countless treasure hunters have adventured to recover the mysterious riches suspected on the island – based merely on treasure maps, written records or stories. Following this tradition, the map also addresses the relationship between maps and reality: usually, cartographers aim to create maps which are as close as possible to reality. At



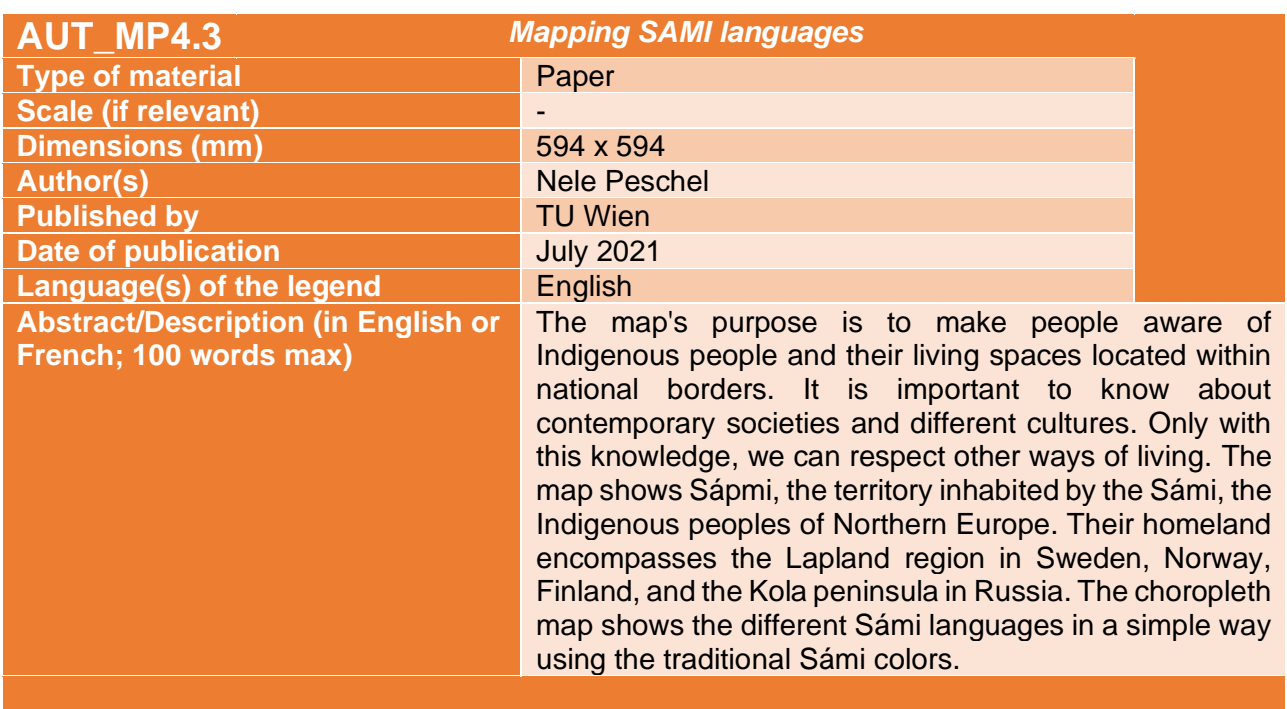
the same time, they shape perception, and thus reality itself.

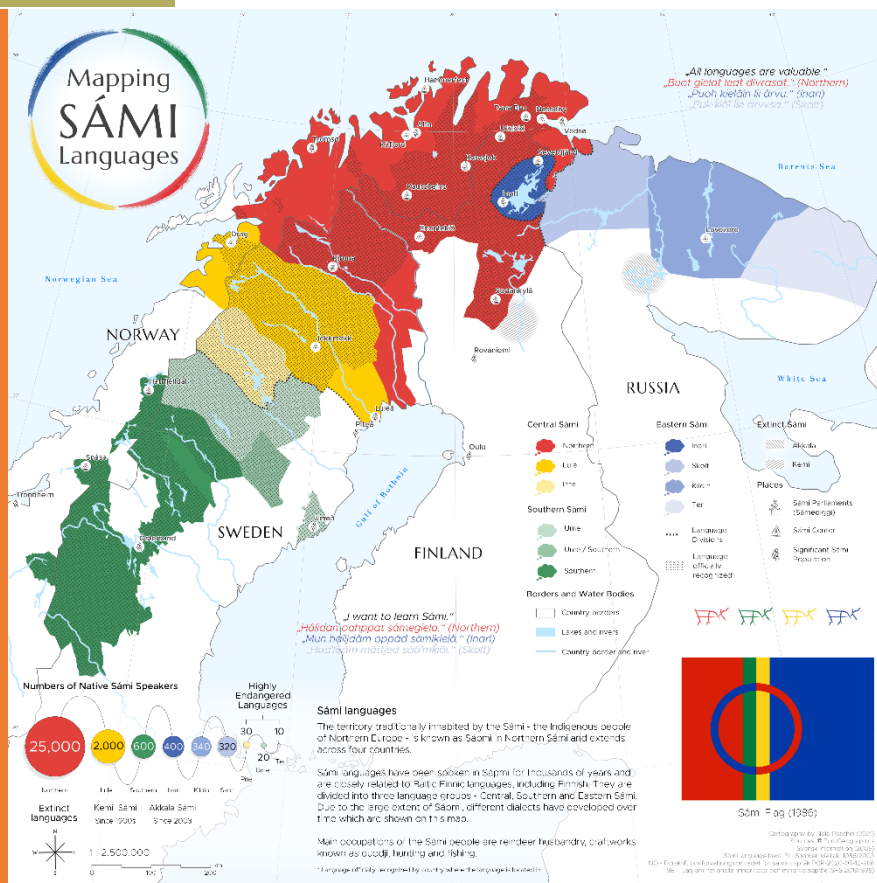


## AUT\_MP4.2

## SkiWelt Wilder Kaiser

Type of material	Paper
Scale (if relevant)	1:46.000
Dimensions (mm)	590 x 420
Author(s)	Jenny Janssen
Published by	TU Wien
Date of publication	2019
Language(s) of the legend	German and English
Abstract/Description (in English or French; 100 words max)	The orientation and navigation plan for the Tyrolean ski area SkiWelt Wilder Kaiser Brixenthal offers a new perspective of the SkiWelt. The plan can be seen as an alternative to the usual panoramic maps, which are often unsuitable for orientation and navigation due to their perspective distortions of the topography. The map is fully geo-referenced and uses open-source vector and raster GIS data. It is intended for users who want to gain a better geographical understanding and mental map of the area to orient themselves and navigate the lifts and slopes, either in advance or on-site.





## ATLASES

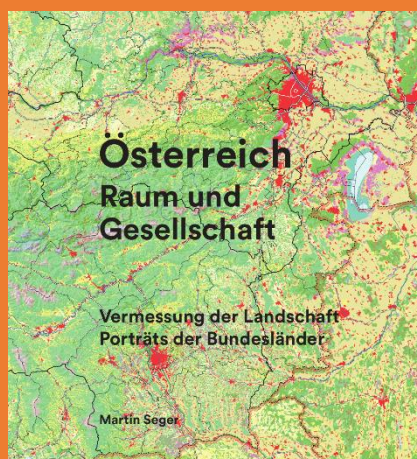
AUT\_AT1

**Austria's Society and Social Environment**  
*[Original title: Österreich, Raum und Gesellschaft - Vermessung der Landschaft, Porträts der Regionen]*

Type of material	Paper
Number of pages	664, within is an atlas of Austria 1:200,000 (70 pages)
Dimensions (mm)	263 x 287
Author(s)	Martin Seger, Thomas Hafner
Published by	Naturwissenschaftlicher Verein für Kärnten in cooperation with Österreichische Geographische Gesellschaft
Date of publication	December 6, 2019



<b>Language(s) of the text</b>	German
<b>Abstract/Description (in English or French; 100 words max)</b>	Focus of the book is to provide Austria's diverse regional identities, combining spatial, economic and social information within a multiparadigmatic narrative. The first part of the book (100 pages) analyses socioeconomic and regional parameters. The second part (surveying of the landscape, 70 pages) is the volume's cartographic highlight: The atlas "Landcover Austria" consists of 30 overlapping map sheets based on an own database with more than 50 thematic layers. Part 3 presents Austria's constitutive unites (Bundesländer). In total, the atlas contains more than 400 thematic maps. The title is on the longlist of scientific books in Austria, 2021.



AUT_AT2		SDGs in action - a generations view
Type of material	Paper	
Number of pages	164	
Dimensions (mm)	300x300	
Author(s)	Markus Jobst	
Published by	Jobstmedia Präsentation Verlag	
Date of publication	December 2021	
Language(s) of the text	German and English	
<b>Abstract/Description (in English or French; 100 words max)</b>	The atlas "SDGs in action – a generations view" is designed as a bilingual book. From our perspective, the views on SDGs coming from various generations and expressed as maps are a valuable documentation how we experience today's problems. The ICA Commission on Map Production and Geoinformation Management, together with the Research Unit Cartography of the TU Wien and some schools, have started an initiative to collect the generation's	



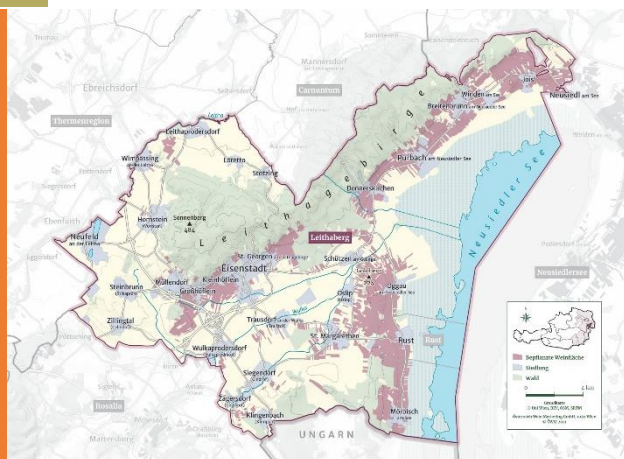
view on SDGs and its expression in maps. The aim is a continuously edited collection in print and digital form, which illustrates the range of perspectives on the SDGs and their motivations for establishing a sustainable world. Website: <http://sdggeneration.cartography.at/>



### AUT\_AT3

### Austrian Vineyard Maps

Type of material	Series of currently 17 printed maps
Number of pages	17
Dimensions (mm)	Depending on the winegrowing region (from 525 x 455 to 735 x 1040)
Author(s)	University of Vienna, Plan&Land, Austrian Wine
Published by	Austrian Wine Marketing Board in collaboration with University of Vienna
Date of publication	June 17, 2021
Language(s) of the text	German, English
Abstract/Description (in English or French; 100 words max)	Printed single vineyard maps of all Austrian winegrowing regions showing all single vineyards that have been legally defined as such. Available as set (folded to A4) or single maps (poster or folded to A4).

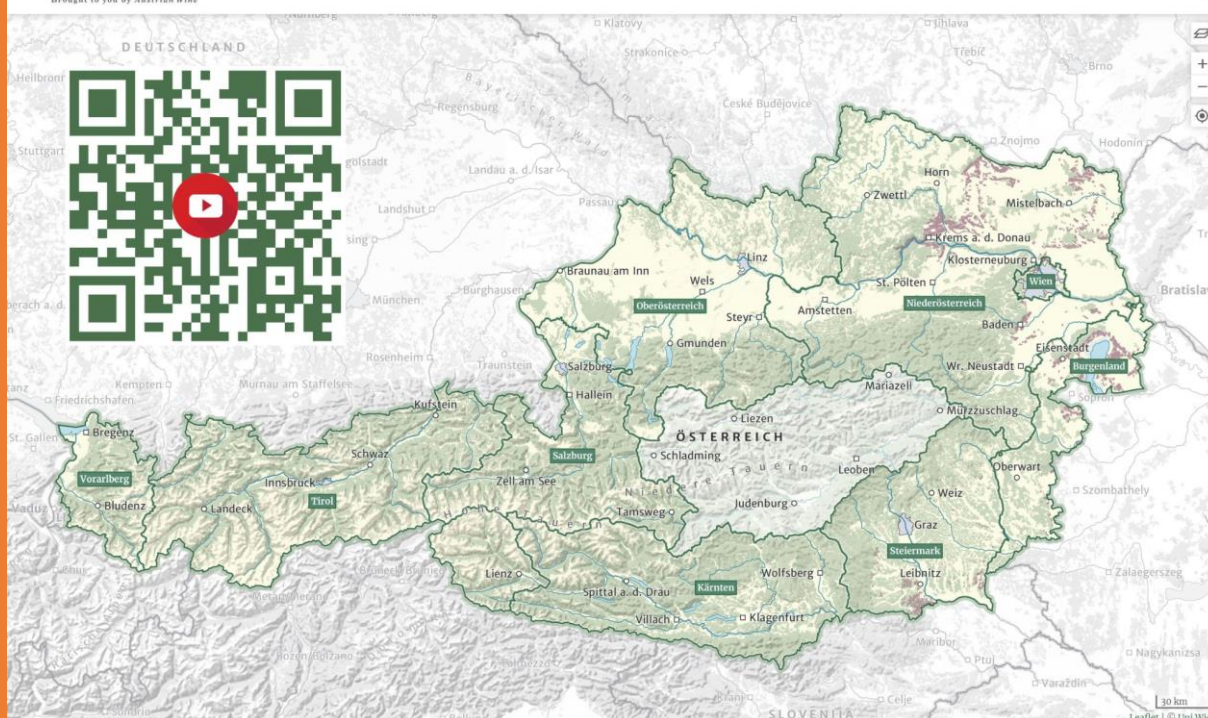


## DIGITAL PRODUCTS

AUT_DP1 <i>Austrian Vineyards</i>	
Type	Website
File format (10 words)	Online Atlas with an interactive web-based user interface
Author(s)	University of Vienna, Plan&Land, Austrian Wine
Published by	Austrian Wine Marketing Board, <a href="https://www.austrianvineyards.com">https://www.austrianvineyards.com</a> in collaboration with University of Vienna
Date of publication or most recent update	June 2021
Scale	-
Language(s) of the presentation	German and English
Abstract/Description (in English or French; 100 words max)	The origin of a wine is extremely important within the wine industry. It is a key indication of the quality and is generally closely linked to the wine's terroir. The narrower and more specific the origin, the higher the quality that can be ascribed to the wine. Presenting the origins of Austrian wines in a complete, correct and attractive way to meet different needs is a prerequisite for successful wine marketing and was the motivation behind this project. With this in mind, the Austrian Wine Marketing Board launched a project to digitally record and present all origins of wine in Austria in a uniform manner. The results are now available as printed maps of the Rieds in each winegrowing region and the digital online viewer, available at <a href="https://www.austrianvineyards.com">https://www.austrianvineyards.com</a> .

AUSTRIANVINEYARDS.com  
Brought to you by Austrian Wine

WINEGROWING REGIONS INFORMATION



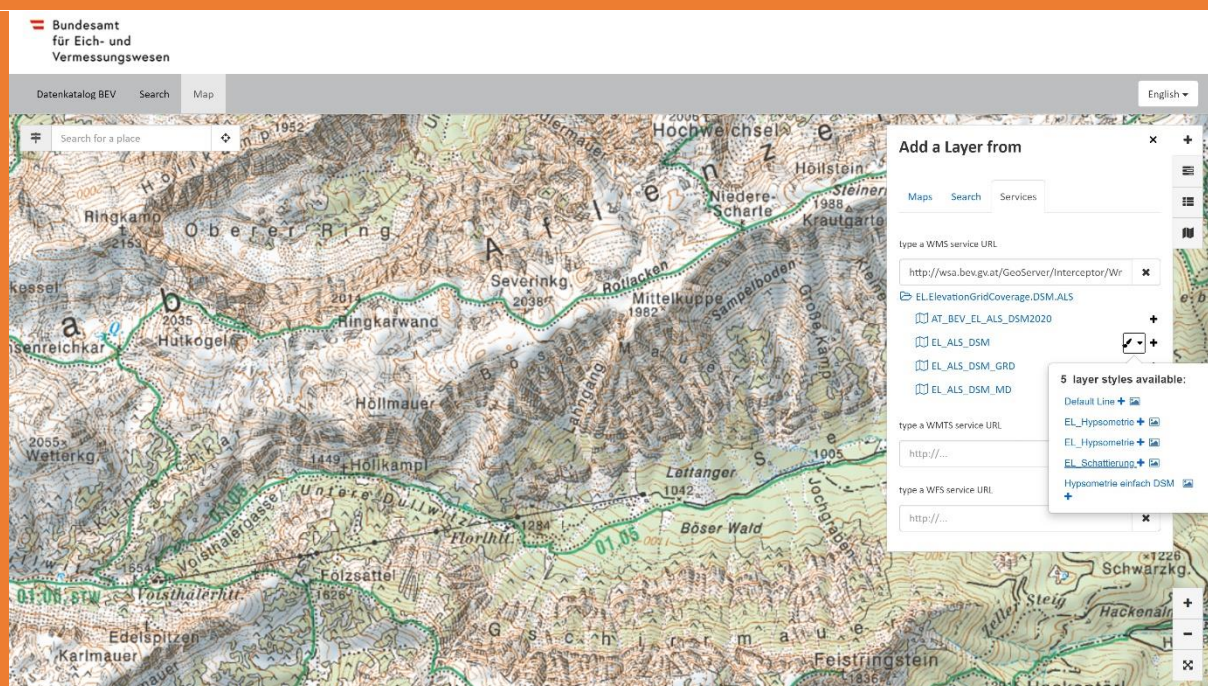
## DIGITAL SERVICES

### AUT\_DS1 Official Data Catalogue of the Austrian Federal Office of Metrology and Surveying

Type of service	Geoportal with different kind of standardized services
Format (10 words)	Included file types differ according to the various product specifications
Software platform	GeoNetwork/Geoserver
URL web link	<a href="https://data.bev.gv.at">https://data.bev.gv.at</a> URL for the map view: <a href="https://data.bev.gv.at/geonetwork/srv/ger/catalog.search#/map">https://data.bev.gv.at/geonetwork/srv/ger/catalog.search#/map</a>
License	CC-BY-4.0
Author(s)	Federal Office of Metrology and Surveying
Published by	Federal Office of Metrology and Surveying
Date of publication or most recent update	July 19, 2021 & continuous updates
Scale	-
Language(s) of the presentation	English
Abstract/Description (in English or French; 100 words max)	The Directive (EU) 2019/1024 of the European Parliament and of the Council creates a legal framework on open data and the re-use of public sector information. The Austrian Federal Office of Metrology and Surveying implemented this legal framework with its new



geoportal at data.bev.gv.at. The objectives are to enhance the access to data following FAIR principles with standardized interfaces (downloads and APIs), to make these datasets unambiguously referable with persistent identifiers (www.doi.org) and to allow an easy overview of the data on a map – with the Austrian Map as a basemap. Link: [https://www.youtube.com/watch?v=7\\_orRmMK-xA](https://www.youtube.com/watch?v=7_orRmMK-xA)





# BELGIUM

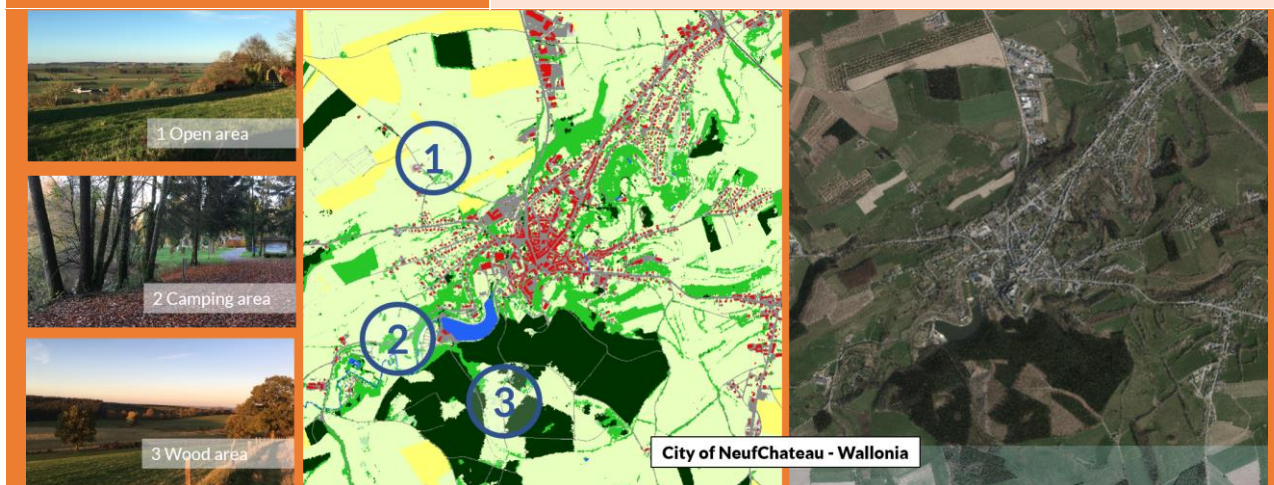
## MAPS ON PANELS

BEL_MP1 <i>The Our valley at the border triangle</i>	
Type of material	Paper pretext
Scale (if relevant)	1:25000
Dimensions (mm)	50 mm x 80 mm (recto/verso) -->100mm x 80mm
Author(s)	Tourismusagentur Ostbelgien, National Geographic Institute
Published by	Tourismusagentur Ostbelgien, National Geographic Institute
Date of publication	25/06/2020
Language(s) of the legend	German, dutch, french, english
Abstract/Description (in English or French; 100 words max)	This map includes a series of six maps, showing the network of walks. The topographic background was produced on the basis of data at 1:50 000, then symbolized with a specific symbolization at 1:25 000. This allows a light background which guarantees a highlighting of the thematic overlay. This is notable when we compare the mapping of Belgium and those of border areas that have not benefited from this treatment. The thematic overlay shows the “node points” network, in which each crossroads is numbered (also materialized in the field). This system allows very simple preparation of the hikes (difficulty, mileage, etc.).



## DIGITAL PRODUCTS

<b>BEL_DP1</b> <i>Land cover and Land Use maps for Wallonia (WALOUS)</i>	
Type	digital maps (raster 1m and vector)
File format (10 words)	Rest service, WMS service
Operating system	No restriction
License	CC-BY
Author(s)	Céline Bassine, Julien Radoux, Pierre Defourny, Taïs Grippa, Moritz Lennert, Eléonore Wolff, Benjamin Beaumont, Eric Hallot
Published by	Service Public de Wallonie ( <a href="http://geoportail.wallonie.be/catalogue/a0ad23a1-1845-4bd5-8c2f-0f62d3f1ec75.html">http://geoportail.wallonie.be/catalogue/a0ad23a1-1845-4bd5-8c2f-0f62d3f1ec75.html</a> )
Date of publication or most recent update	01/11/2020
Scale	1m raster
Language(s) of the presentation	french (subtitle english)
Abstract/Description (in English or French; 100 words max)	To support regional public and private entities, the Public Service of Wallonia (PSW) produced two maps of land cover (LC) and land use (LU) based on aerial photos and satellite imagery. Indeed, such LCLU maps are important for climate reporting, flood mapping, land take monitoring, forest management, among others. The last LCLU map of Wallonia produced in 2007 from cadastral and agricultural information did not distinguish information on LC from LU. Walous project (Wallonia Land Cover and Use) funded by the PSW provide a comprehensive view of the Walloon territory in 2018.

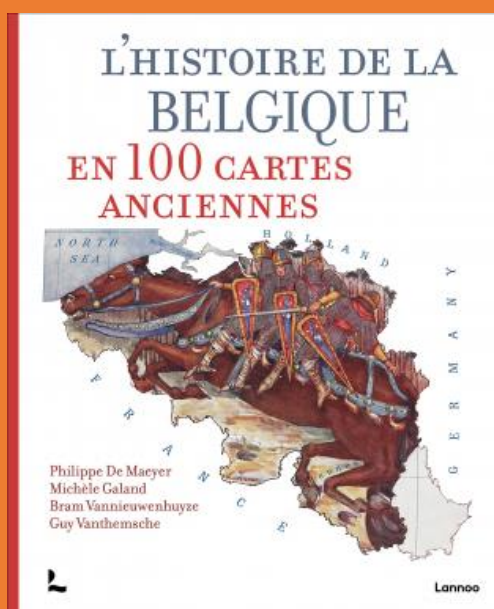


## OTHER CARTOGRAPHIC PRODUCTS

### BEL\_OC1

### *The History of Belgium in 100 Old Maps*

Author(s)	Philippe De Maeyer, Michèle Galant, Bram Vannieuwenhuyze, Guy Vanthemsche
Type	Book
Dimensions (mm)	340x 280
Published by	Dutch edition by Lannoo Publishers; French edition by Editions Racine
Date of publication	30 October 2021
Language(s) of the product	French, Dutch
Abstract/Description (in English or French; 100 words max)	This book makes the history of Belgium visible by means of 100 special old maps. From an Ortelius map on the Roman settlements to the official map with the Belgian language borders from 1964. The combination of historical maps, beautiful illustrations and informative texts, composed by some of the country's best historians and cartographic historians, tells the story of our history in a clear and accessible way.





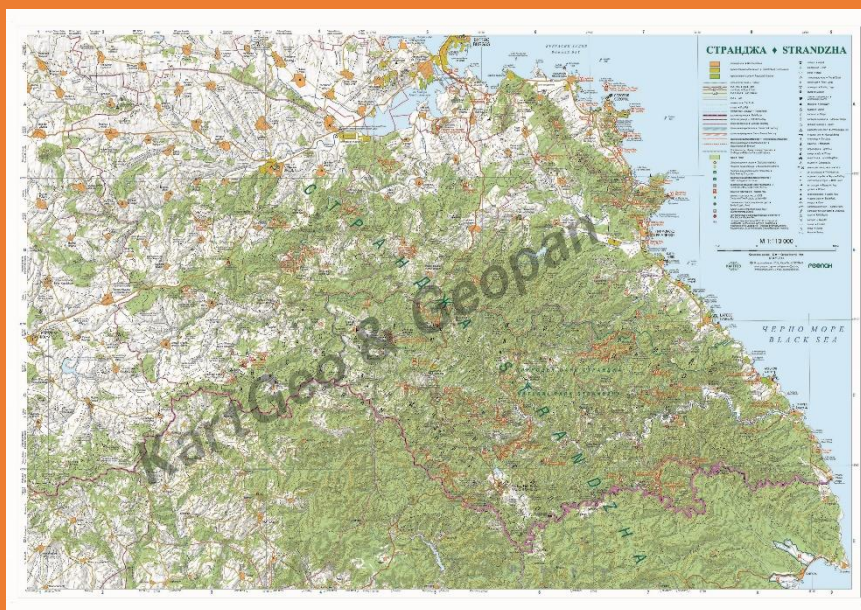
# BULGARIA

## MAPS ON PANELS

### BGR\_MP1

### Strandzha – Petrova niva

Type of material	paper
Scale (if relevant)	1:110 000
Dimensions (mm)	700x1000
Author(s)	KartGeo Ltd. and Geopan Ltd.
Published by	KartGeo Ltd. and Geopan Ltd.
Date of publication	10 August 2021
Language(s) of the legend	Bulgarian and English
Abstract/Description (in English or French; 100 words max)	A detailed tourist map of Strandzha mountain with the Western Blacksea coastline from cape Phoros to Igneada. It represents a territory of 7356.8 square km. The map covers the whole geographic boundaries of Strandzha Mountain on the territory of the Republic of Bulgaria and part of the mountain on the territory of the Republic of Turkey. It represents road network, trekking routes, protected areas, tourist chalets and shelters, hotels, archaeological sites, shipwrecks, waterfalls, springs and other natural landmarks and places of interest. The historical area Petrova niva and its adjacent territories are presented in detail on the reverse, scale 1:40 000.

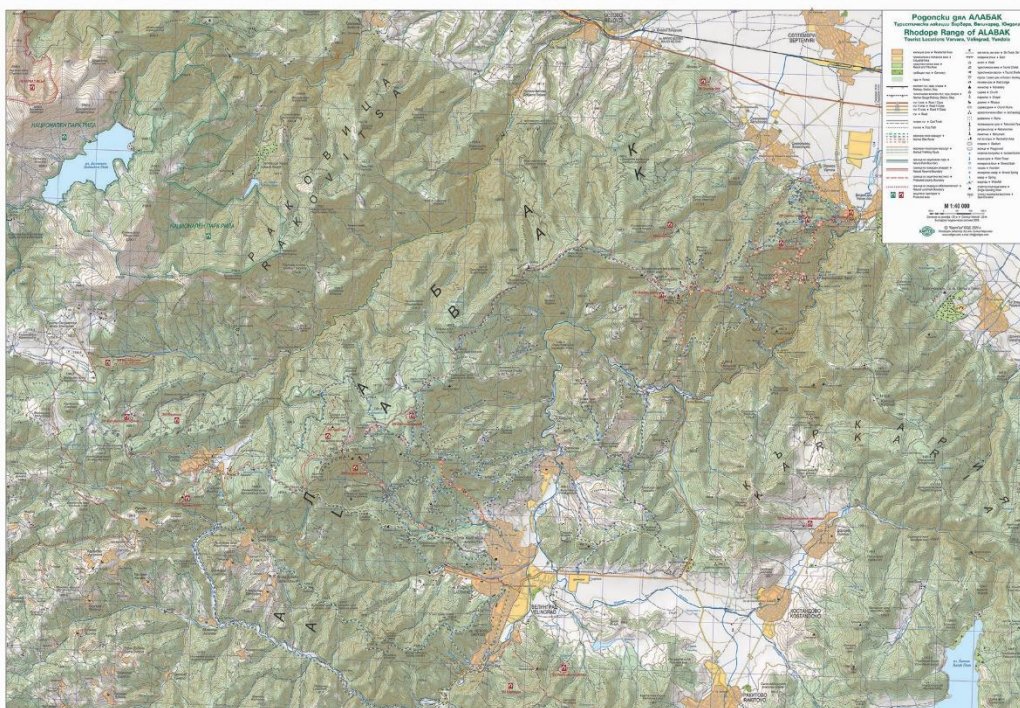




## BGR\_MP2

## Rhodope Range of Alabak

Type of material	paper
Scale (if relevant)	1:40 000
Dimensions (mm)	700x1000
Author(s)	KartGeo Ltd. and Bikearea
Published by	KartGeo Ltd., Bikearea, Alabak
Date of publication	20 September 2021
Language(s) of the legend	Bulgarian and English
Abstract/Description (in English or French; 100 words max)	A detailed tourist map presenting up-to-date information about the range of Alabak located in the beautiful Rhodope Mountains. The focus is on the tourist locations Varvara, Velingrad and Yundola. It includes a huge amount of information about tourist chalets and shelters, protected areas, natural landmarks, historical sites, etc. The map shows all marked trekking and bike routes with colours and numbers (for the bike routes). All routes are described in detail on the reverse.

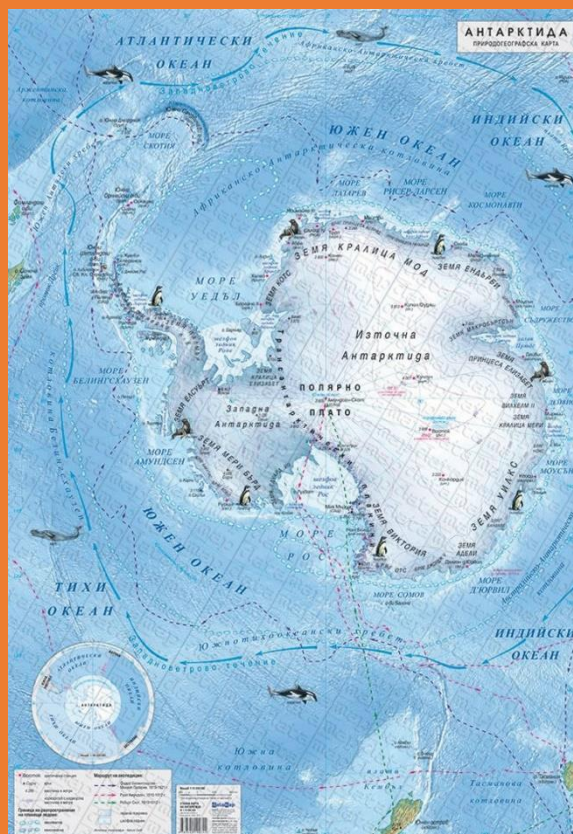


## BGR\_MP3

## Antarctica Nature Map

Type of material	paper
Scale (if relevant)	1:10 000 000
Dimensions (mm)	700x1000
Author(s)	DataMap-Europe Ltd.

Published by	DataMap-Europe Ltd.
Date of publication	1.September 2020
Language(s) of the legend	Bulgarian
Abstract/Description (in English or French; 100 words max)	The map is designed on the base of the newest researches of the region. The shade relief is used for good representation of the relief. The polar stations are checked for the actual information by scientists from Bulgarian Antarctic Institute. The map is used mainly for education in Bulgarian schools.

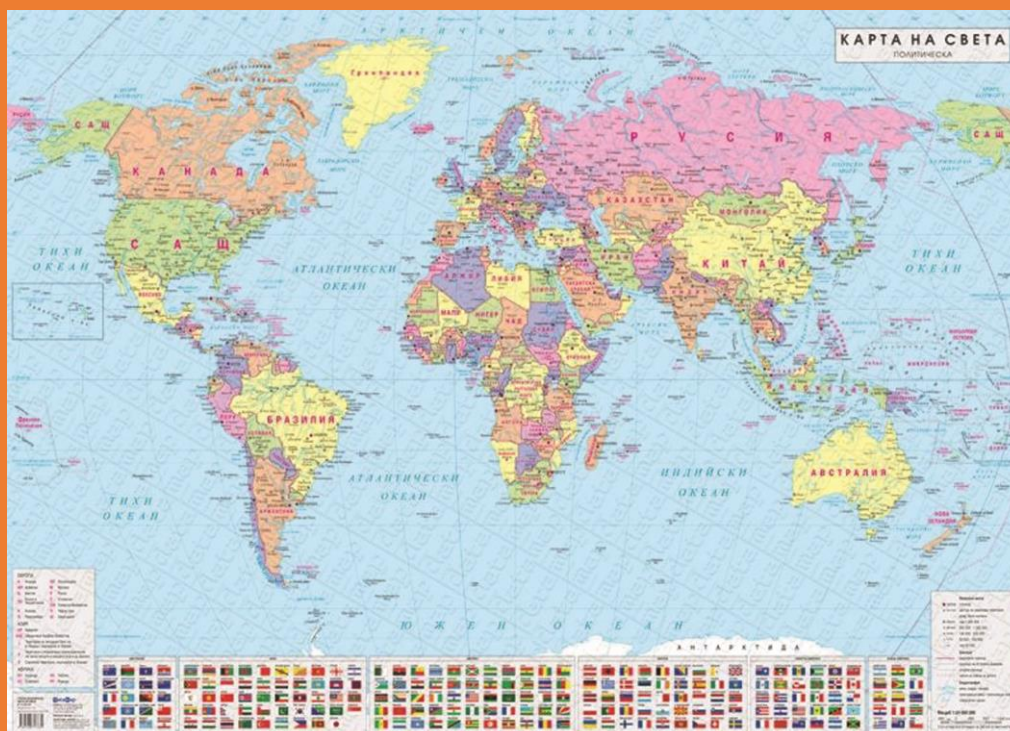


<b>BGR_MP4</b>	<b>Political Map of the World</b>
Type of material	paper
Scale (if relevant)	1:24 000 000
Dimensions (mm)	1400x1000
Author(s)	DataMap-Europe Ltd.
Published by	DataMap-Europe Ltd.
Date of publication	1.August 2020
Language(s) of the legend	Bulgarian



**Abstract/Description (in English or French; 100 words max)**

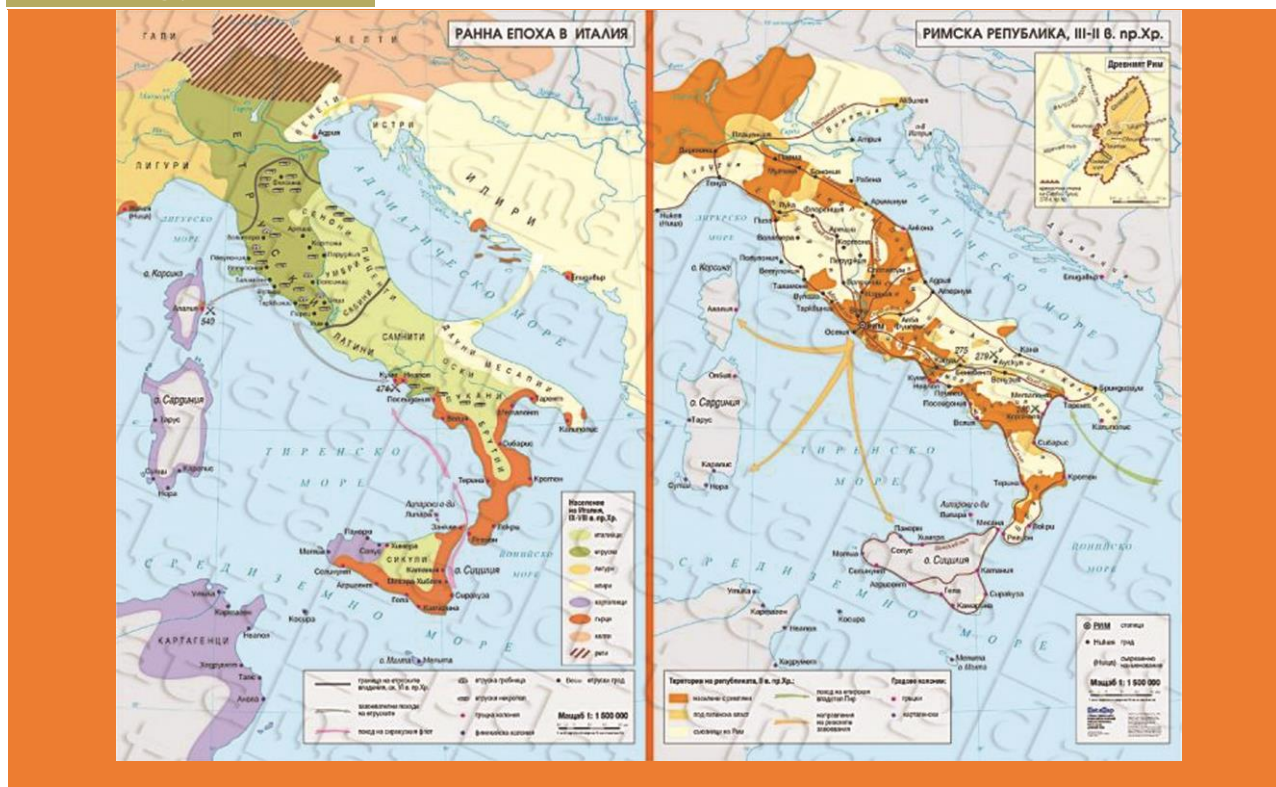
The map is double-sided laminated, with plastic strips and cord on the top strip for hanging. The newest data for country borders and capital names is used. The flags of all counties of the world are presented on the south part of the map.



## BGR\_MP5

*Early era in Italy. Roman Republic III-II century BC*

Type of material	paper
Scale (if relevant)	1:1 500 000
Dimensions (mm)	1400x1000
Author(s)	DataMap-Europe Ltd.
Published by	DataMap-Europe Ltd.
Date of publication	15.October 2020
Language(s) of the legend	Bulgarian
Abstract/Description (in English or French; 100 words max)	The map is designed for the education in the Bulgarian schools. The historical content is represented by appropriate cartographic technics and methods of representation. The symbols and labels are in calculated readable sizes. The rich historic information is represented by readable and understandable way for students.

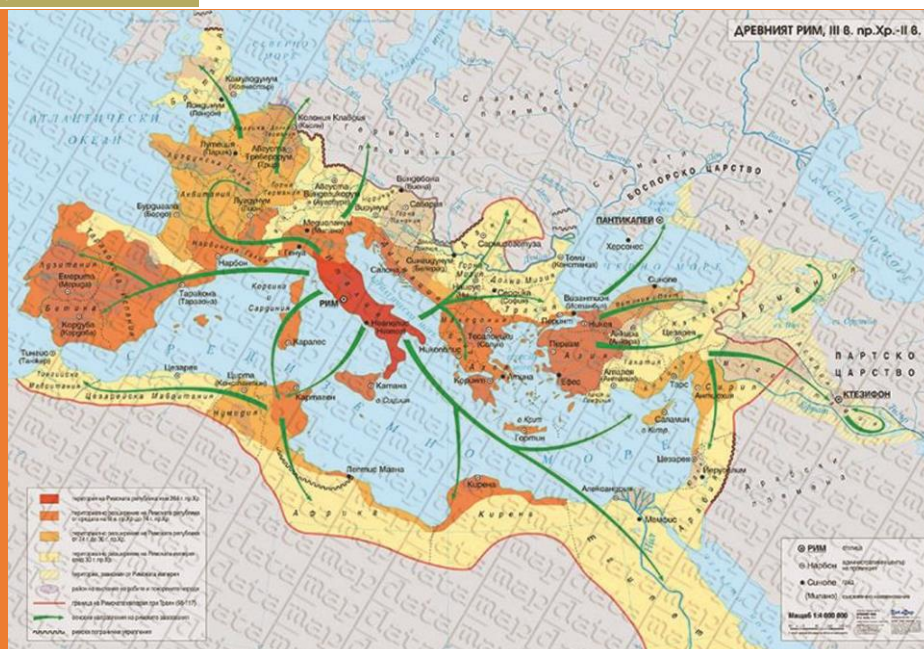


## BGR\_MP6

### Ancient Rome, 3rd century BC - II c.

Type of material	paper
Scale (if relevant)	1:4 000 000
Dimensions (mm)	1400x1000
Author(s)	DataMap-Europe Ltd.
Published by	DataMap-Europe Ltd.
Date of publication	15.October 2020
Language(s) of the legend	Bulgarian
Abstract/Description (in English or French; 100 words max)	The map is designed for the education in the Bulgarian schools. The historical content is represented by appropriate cartographic technics and methods of representation. The symbols and labels are in calculated readable sizes. The rich historic information is represented by readable and understandable way for students.





## BGR\_MP7 Unification of Italy, 1859-1870 Unification of Germany, 1866-1871

Type of material	paper
Scale (if relevant)	1:1 600 000
Dimensions (mm)	1000x1400
Author(s)	DataMap-Europe Ltd.
Published by	DataMap-Europe Ltd.
Date of publication	15.October 2020
Language(s) of the legend	Bulgarian
Abstract/Description (in English or French; 100 words max)	The map is designed for the education in the Bulgarian schools. The historical content is represented by appropriate cartographic technics and methods of representation. The symbols and labels are in calculated readable sizes. The rich historic information is represented by readable and understandable way for students.



## EDUCATIONAL PRODUCTS

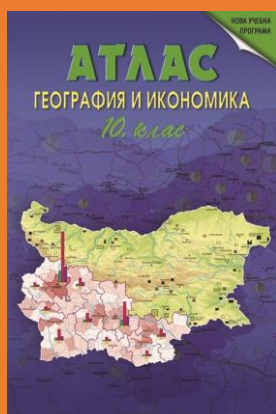
<b>BGR_EP1</b>	<i>Atlas Geography and Economics for 5., 6. and 7. grades</i>	
<b>Author(s)</b>	Temenoujka Bandrova	
<b>Type</b>	Atlas	
<b>Dimensions (mm)</b>	240x310	
<b>Published by</b>	DataMap-Europe Ltd	
<b>Date of publication</b>	1 September 2021	
<b>Language(s) of the product</b>	Bulgarian	
<b>Abstract/Description (in English or French; 100 words max)</b>	<p>The Atlas contains more than 100 maps made by modern technologies, some of which are combined with shadow relief and satellite images. It is designed for the secondary school stage. The first section - 5th grade, covers Geographical information; Planet Earth; Nature of the Earth; Geography of society and economy and Africa. The section for 6th grade, includes the rest of the continents. The third section - 7th grade, deals with Europe, the Balkans and Bulgaria. It provides information on nature, water and soil, climate, flora and fauna, population, economy, transport, trade and tourism, other topics covering the full curriculum.</p>	



## BGR\_EP2

### Atlas Geography and Economics for 10. grade

Author(s)	Temenoujka Bandrova
Type	Atlas
Dimensions (mm)	155x240
Published by	DataMap-Europe Ltd
Date of publication	1 August 2019
Language(s) of the product	Bulgarian
Abstract/Description (in English or French; 100 words max)	The Atlas is designed for detailed study of the nature, population, settlements and economy of Bulgaria. Geographic information systems and the latest statistical data for the mapping of the studied material were used. It contains many additional graphs and diagrams that show visually and summarized the information in the various sections. The topics are presented in 90 maps. The atlas is made on the basis of the curriculum approved by the Ministry of Education and Science and the state educational requirements for 10th grade.

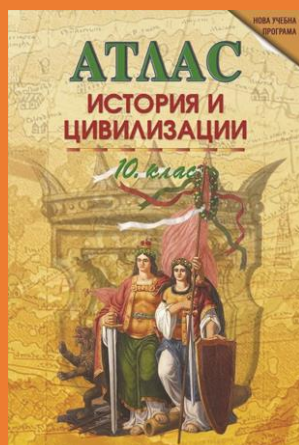


## BGR\_EP3

### Atlas History and Civilizations for 10. grade

Author(s)	Nikola Djulgerov and Temenoujka Bandrova
Type	Atlas

Dimensions (mm)	155x240	
Published by	DataMap-Europe Ltd	
Date of publication	15 August 2019	
Language(s) of the product	Bulgarian	
Abstract/Description (in English or French; 100 words max)	The atlas contains 76 maps presenting the rich Bulgarian history. Its content fully covers the curriculum approved by the Ministry of Education and Science for 10th grade. The maps have been developed on the basis of the latest historical research and data using Geographic Information Systems. Geographical base is presented accurately and reliably, and for easier orientation in orography a shade relief obtained on the basis of a 3D model on the territory is presented.	





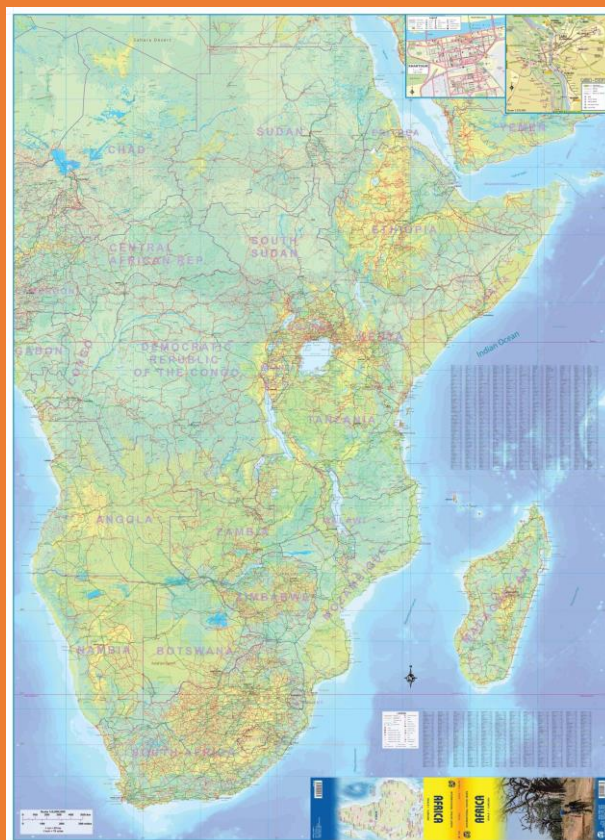
# CANADA

## MAPS ON PANELS

### CAN\_MP1

### *Africa Travel Reference Map 3<sup>rd</sup> Ed.*

Type of material	waterproof stone paper, double-sided
Scale (if relevant)	1:4,800,000
Dimensions (mm)	1300 x 1000
Author(s)	Lan Joyce
Published by	ITMB Publishing Ltd.
Date of publication	October 2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	This is a detailed travel reference map designed to assist travellers exploring the continent. It shows physical features, major roads, rail lines, major parks, major urban areas by population, and touristic attractions.



## CAN\_MP2 Maui, Kauai, & Molokai (Hawaii) Travel Reference Map 1<sup>st</sup> Ed.

Type of material	waterproof stone paper, double-sided
Scale (if relevant)	1:100,000
Dimensions (mm)	1000 x 700
Author(s)	Lan Joyce
Published by	ITMB Publishing Ltd.
Date of publication	September 2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	Maui and Lanai on one side, Kauai, Molokai, and Ni'ihau on the other, along with inset maps of various urban areas. Legend and place names are in English, most of which are identical to Hawaiian. The map has two covers, enabling the map to be marketed in different formats. This is a very detailed map, designed to assist visitors to the region, noting physical features, urban areas, roads, parks/reserves, major resorts, and touristic attractions.





### CAN\_MP3

### The world / Le Monde

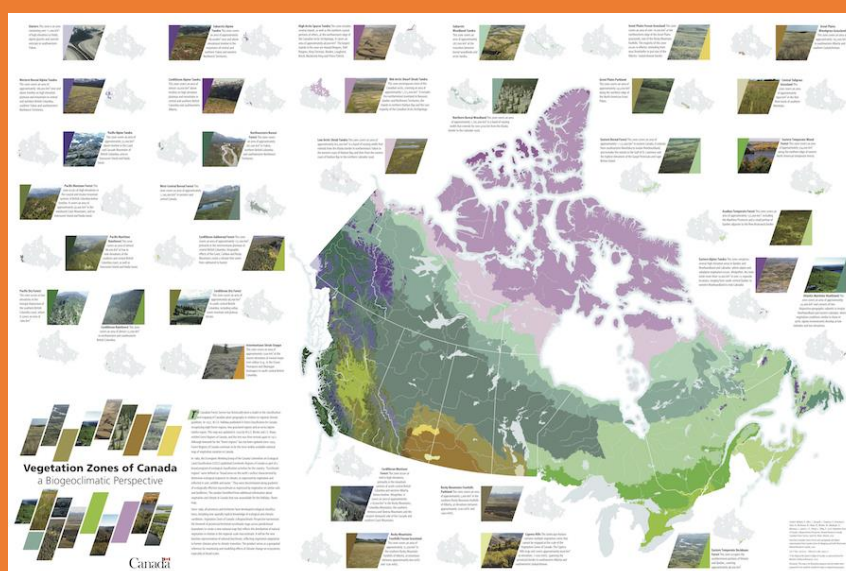
Type of material	Wall map
Scale (if relevant)	1: 29,000,000
Dimensions (mm)	1168 x 762
Author(s)	Ken Francis, Rory McAlpine, Peter Morton, Louis-Jean Foucher, GeoInsights
Published by	Federal Geospatial Platform, Canada Centre for Mapping and Earth Observation, Natural Resources Canada
Date of publication	2021
Language(s) of the legend	English and French
Abstract/Description (in English or French; 100 words max)	The World is a general reference political map focused on the names and international boundaries of sovereign and non-sovereign countries; Winkel II projection. / <i>Le Monde est une carte politique de référence générale axée sur les noms et les frontières internationales des pays souverains et non souverains.</i>



### CAN\_MP4 Vegetation Zone of Canada: A Biogeoclimatic Perspective

Type of material	Poster map, folded
Scale (if relevant)	n/a
Dimensions (mm)	914 x 610
Author(s)	Baldwin, K.; Allen, L.; Basquill, S.; Chapman, K.; Downing, D.; Flynn, N.; MacKenzie, W.; Major, M.; Meades, W.; Meidinger, D.; Morneau, C.;

	Saucier, J.-P.; Thorpe, J.; Uhlig, P.; Design: Ken Francis	
Published by	Canada Forest Services and Canada Centre for Mapping and Earth Observation, Natural Resources Canada	
Date of publication	2020	
Language(s) of the legend	English and French	
Abstract/Description (in English or French; 100 words max)	This poster map depicts the thirty-three level 2 vegetation zones for Canada. Level 2 zones distinguish finer scale variation in zonal vegetation, especially in response to elevational and arctic climatic gradients, climate-related floristics and physiognomic diversity in the Great Plains, and maritime climatic influences on the east and west coasts.	



CAN_MP5 <i>La couverture terrestre au Canada (version 2015)</i>	
Type of material	Poster map
Scale (if relevant)	n/a
Dimensions (mm)	1016 x 660
Author(s)	R. Latifovic; Le design: Ken Francis
Published by	Centre canadien de cartographie et d'observation de la Terre, Ressources naturelles Canada
Date of publication	2019
Language(s) of the legend	anglais et français
Abstract/Description (in English or French; 100 words max)	Cette carte-affiche présente la couverture terrestre du Canada en 2015 avec les photographies montrant les différentes classes de couverture terrestre au Canada. L'imagerie satellitaire de la couverture terrestre a une résolution de 30 mètres.

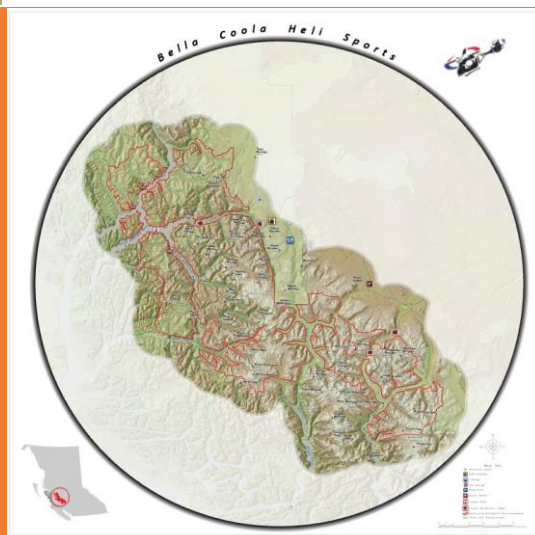




## CAN\_MP6

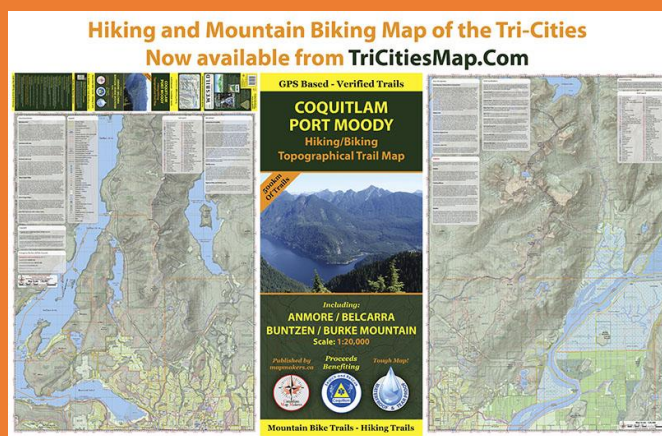
### Bella Coola Heli Sports Operating Area

Type of material	water resistant paper
Scale (if relevant)	1:475,000
Dimensions (mm)	762 x 762
Author(s)	Bob Plummer
Published by	Smart Map Services
Date of publication	October 2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	British Columbia is known for world class Heliskiing. This map shows where Bella Coola Heli Sports -a Heliskiing company - operates in the Coast Range Mountains of central British Columbia. The operating area covers 13,150 square kilometres with more than 900 ski runs. Mount Waddington - B.C.'s highest peak at 4,019 metres- lies just outside the tenure.



### CAN\_MP7 *Tri-Cities hiking and biking topographical trail map, 3<sup>rd</sup> ed.*

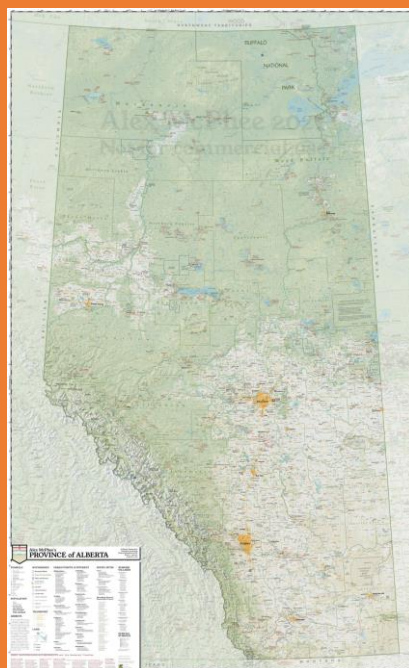
Type of material	water resistant and tear resistant stone paper
Scale (if relevant)	1:20,000
Dimensions (mm)	673 x 990
Author(s)	Steve Chapman
Published by	Canadian Mapmakers
Date of publication	2020
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	The first comprehensive trail map covering the Tri-Cities regions of Coquitlam, Port Moody, Port Coquitlam, Buntzen Lake, Anmore, Belcarra, Burke Mountain and Pitt Meadows. The trail data for this map has been collected using GPS equipment during 2014 and 2020 for the third edition. Trails graded according to usage and condition; > 500km of hiking, cycling and mountain bike trails.



## CAN\_MP8

### Alex McPhee's Province of Alberta

Type of material	stock paper, laminated or non-laminated
Scale (if relevant)	1:800,000
Dimensions (mm)	1067 x 1727
Author(s)	Alex McPhee
Published by	Prairie Heart Maps
Date of publication	January 2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	Alex McPhee's Province of Alberta is a reference map in classic style, showing a well-rounded overview of Canada's fourth-largest province. Elevations, hydrography, and the world-famous Canadian Rockies share space with unique landmarks like the St. Paul UFO Landing Pad. Special attention is paid to Alberta's Indigenous geography, with historic treaty boundaries and surrendered reserve lands appearing on a general-purpose wall map for the first time ever. McPhee's Alberta was created entirely using open data and free software.



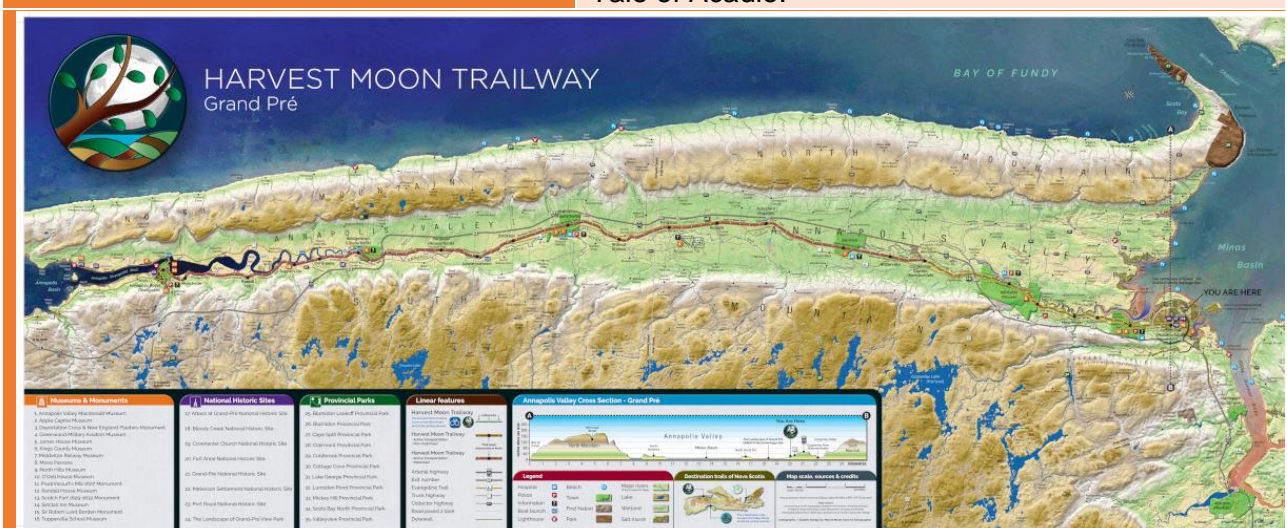
## CAN\_MP9

### Harvest Moon Trailway (Nova Scotia)

Type of material	Stock paper
Scale (if relevant)	1:85,000
Dimensions (mm)	1524 x 610
Author(s)	Marcel Morin



Published by	Lost Art Cartography
Date of publication	2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	The 110-km Harvest Moon Trailway traverses the Annapolis Valley through beautiful towns along a former railbed, connecting the Landscape of Grand Pré UNESCO World Heritage Site to the historic seaside town of Annapolis Royal. The Harvest Moon Trailway sits on the former railbed known as the Dominion Atlantic Railway, first built in 1894. This was one the earliest examples of rail tourism in Canada, carrying tens of thousands of tourists from the United States through the Land of Evangeline, a part of the landscape popularly captured in Henry Wadsworth Longfellow's epic poem Evangeline, A Tale of Acadie.



<b>CAN_MP10</b>	<b><i>Nature in the City map: A NatureHood Guide to Many Adventures, 1st Ed.</i></b>
Type of material	Stock paper
Scale (if relevant)	n/a
Dimensions (mm)	813 x 610
Author(s)	Greater Victoria NatureHood / Kathleen Burton
Published by	Capital Regional District
Date of publication	2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	This map tells stories of urban habitats, captivating species and local parks to explore. Environmental information is woven together with original artwork by Kristi Bridgeman and designed by a team of Victoria NatureHood community partners led by Kathleen Burton as project manager and lead writer. The team consisted of individuals from the District of Saanich, the Capital



Regional District and Victoria Natural History Society. The map committee was honoured to work with SENĆOTEN language revivalist ŚW,XELOSELWET Tiffany Joseph and Erich Kelch, First Nations Relations, community engagement coordinator, CRD. Place names in both SENĆOTEN and Lekwungen languages are located throughout the map, and species names are found on the species list.



## CAN\_MP11

## Acadian Deportation in 1755

Type of material	Paper stock
Scale (if relevant)	1:3,500,000
Dimensions (mm)	841 x 594
Author(s)	Kevin Chen
Published by	Centre for Geographic Sciences, Nova Scotia
Date of publication	2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	There are two objectives for making this map. Firstly, it will assist in creating a preliminary understanding for

people who are unaware of the history of the Acadian deportation from Nova Scotia during the 18th century. Secondly, for people who are already aware of this history, it may provide the information in a more vivid form, including, for example, the population patterns of Acadian resettlements along the Atlantic coast of North America.



## CAN\_MP12 Using Simplified Maps to Explore the COVID-19 Pandemic in Canada

Type of material	n/a
Scale (if relevant)	n/a
Dimensions (mm)	800 x 550
Author(s)	Fox Underwood
Published by	University of Toronto Press
Date of publication	2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	Maps with simplified topologies can preserve geographic relationships of regions within a country while giving equal visual weight to each region. This compressed map design allows for comparison of statistical values across space and time. Here we see various aspects of the COVID-19 pandemic on Canada's provinces and territories from January 2020 to September 2021.

## Using Simplified Maps to Explore the COVID-19 Pandemic in Canada

Fox E. Underwood, University of Calgary, Departments of Medicine and Community Health Sciences



Maps with simplified topologies can preserve geographic information in regions where a complex shape might appear visual weight in each region. This statement map design allows for comparison of statistical values across space and time. Here we see various aspects of the COVID-19 pandemic in Canada's provinces and territories from January 2020 to September 2021.



Yellow (YT), Northwest Territories (NT), Nunavut (NU), British Columbia (BC), Alberta (AB), Saskatchewan (SK), Manitoba (MB), Ontario (ON), Quebec (QC), New Brunswick (NB), Prince Edward Island (PE), Nova Scotia (NS), Newfoundland and Labrador (NL).

Below figure and with permission from the Journal Cartographica, University of Toronto Press.

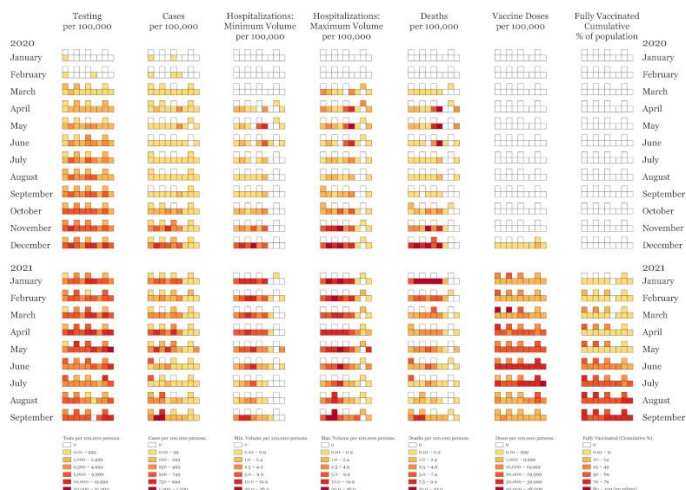
Underwood, F.E. Using topological maps to explore the COVID-19 pandemic in Canada. Cartographica, 2021, 16(1), 1-10. <https://doi.org/10.1080/00087041.2021.1911111>

From Source: The COVID-19 Tracker Canada group. Labeled N. COVID-19 Tracker Canada, 2020. <https://covid19tracker.ca/>

The COVID-19 Canada Open Data Working Group. Borey, E., Borey, J.P., Taylor, A., & Borey, D. Open source epidemiology data and its importance. Published to monitor the COVID-19 outbreak in Ontario, Canada. <https://www.ontario.ca/en/health/2020/04/01/covid-19-ontario>

Statistics Canada. Table 10-10-0000-0001: Population estimates, quarterly, since 1996. <https://www150.statcan.gc.ca/n1/pub/92-621-x/2020001/article/00001-eng>

Statistics Canada. Table 10-10-0000-0001: Population estimates, quarterly, since 1996. <https://www150.statcan.gc.ca/n1/pub/92-621-x/2020001/article/00001-eng>





# CHINA

## MAPS ON PANELS

### CHN\_MP1 *Map of the people's Republic of China (ink version)*

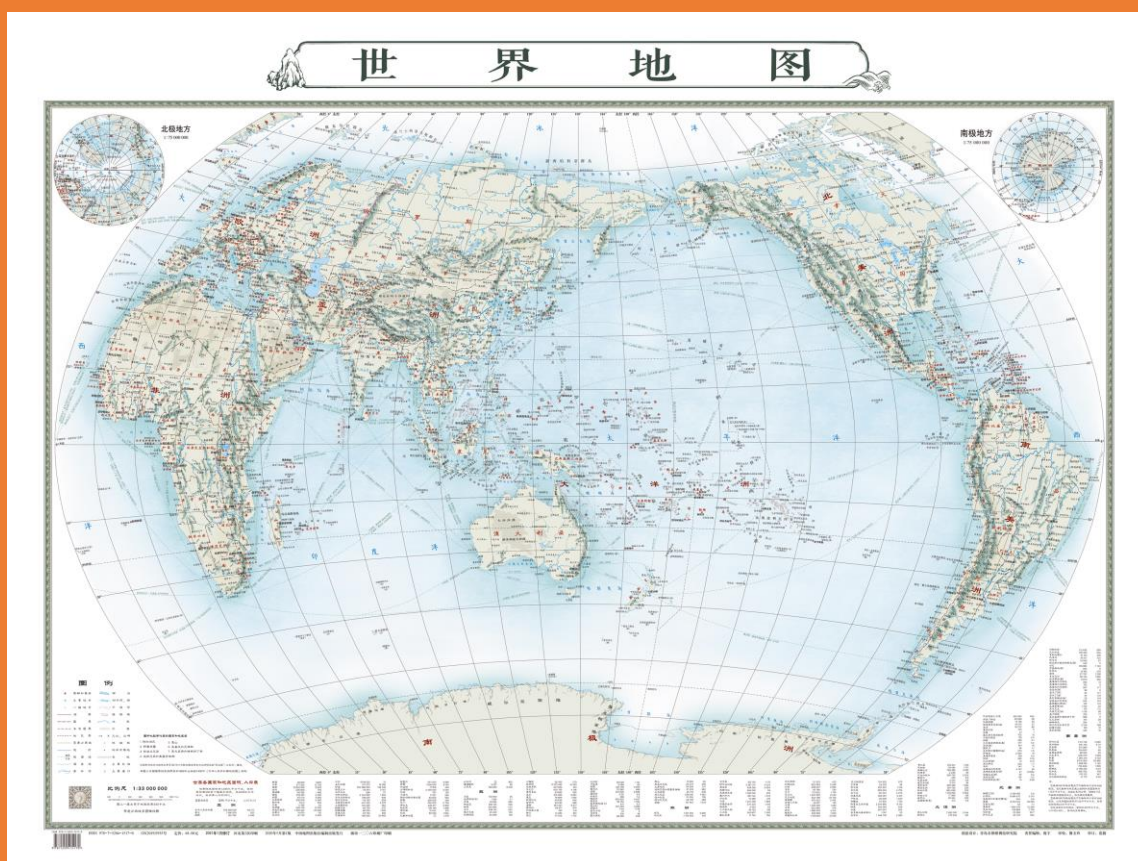
Type of material	Paper
Scale (if relevant)	1:6 000 000
Dimensions (mm)	812 × 1087
Author(s)	SinoMaps Press
Published by	SinoMaps Press
Date of publication	May 2020
Language(s) of the legend	Chinese
Abstract/Description (in English or French; 100 words max)	Ink map perfectly combines map, shading and landscape painting. It uses the most classic Chinese design style and has the most timely map information. Rich natural colors, with the artistic effect of Chinese splash ink style, show the mountains in the form of landscape painting. The map is printed on special paper, rolled with short edges and loaded in barrels. The product also has the practical function of reference map, which is marked with thousands of geographic information. It is sure to be a handsome addition to the office, study or family room.



## CHN\_MP2

## Map of the world (ink version)

Type of material	Paper
Scale (if relevant)	1:33 000 000
Dimensions (mm)	812 × 1087
Author(s)	SinoMaps Press
Published by	SinoMaps Press
Date of publication	May 2020
Language(s) of the legend	Chinese
Abstract/Description (in English or French; 100 words max)	Ink map perfectly combines map, shading and landscape painting. It uses the most classic Chinese design style and has the most timely map information. Rich natural colors, with the artistic effect of Chinese splash ink style, show the mountains in the form of landscape painting. The map is printed on special paper, rolled with short edges and loaded in barrels. The product also has the practical function of reference map, which is marked with thousands of geographic information. It is sure to be a handsome addition to the office, study or family room.



## CHN\_MP3

## Beijing Hand-drawn Map: The Grand Canal of China

Type of material	paper
Scale (if relevant)	none



Dimensions (mm)	570 × 800
Author(s)	Beijing Institute of Surveying and Mapping, Urban Geographic Information and Cultural Creativity Wen Zongyong Innovation Studio
Published by	SinoMaps Press
Date of publication	November 2020
Language(s) of the legend	Chinese
Abstract/Description (in English or French; 100 words max)	The Grand Canal of China is a world cultural heritage and a great water conservancy project created by the people in ancient China. This map shows the historical relics and stories of the Beijing section of China's Grand Canal in hand-painted form, showing the past, present and future of the Beijing section of China's Grand Canal. It specifically tells the route of the Beijing section of China's Grand Canal, the story of the excavation of the Grand Canal, important historical events and intangible cultural heritage. Let readers have an in-depth understanding of China's Grand Canal and its significance to the development of Beijing.



### CHN\_MP4 *Hand-painted Long Scrolls of the Connecting Areas along the Huangpu River*

Type of material	rice paper
Scale (if relevant)	/
Dimensions (mm)	2754*600
Author(s)	Shanghai Surveying and Mapping Institute, Wenqiang Yao/Jiesheng An/Jing Xin/Chenxi Yu/Qingwei Wang/Bei Hu
Published by	/
Date of publication	/
Language(s) of the legend	/
Abstract/Description (in English or French; 100 words max)	In 2018, Shanghai Surveying and Mapping Institute compiled a Connecting Public Space Map of the Areas along the Huangpu River to display the development and



construction achievements of Shanghai. On that basis, two hand-painted artistic long scrolls, featuring city landscape and being both aesthetic and practical, are compiled to reflect the wisdom of the city. Unfurling the two hand-painted long scrolls, the inscription of An Jiesheng, deputy director of the Institute of Chinese Historical Geography of Fudan University, and the selected 20 poems of the ancient poets facing the Huangpu River, expressing their emotions and feelings, stand out vividly.



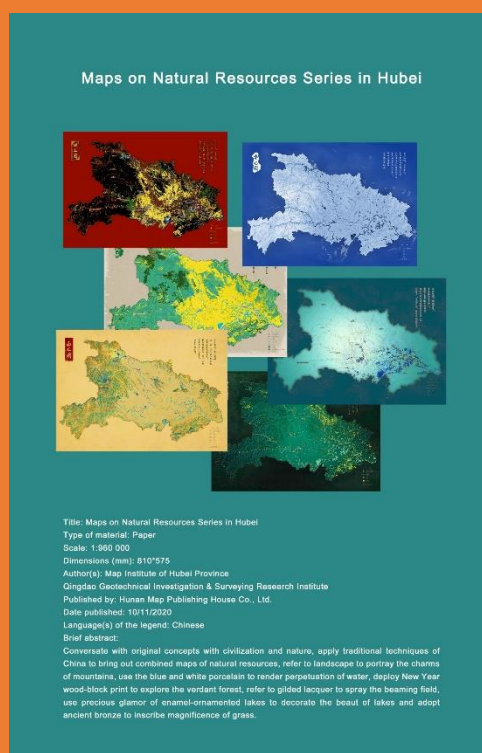
## CHN\_MP5

### Maps on Natural Resources Series in Hubei

Type of material	Paper
Scale (if relevant)	1:960 000
Dimensions (mm)	810*575
Author(s)	Map Institute of Hubei Province Qingdao Geotechnical Investigation & Surveying Research Institute
Published by	Hunan Map Publishing House Co., Ltd.
Date of publication	10/11/2020
Language(s) of the legend	Chinese

## Abstract/Description (in English or French; 100 words max)

Conversate with original concepts with civilization and nature, apply traditional techniques of China to bring out combined maps of natural resources, refer to landscape to portray the charms of mountains, use the blue and white porcelain to render perpetuation of water, deploy New Year wood-block print to explore the verdant forest, refer to gilded lacquer to spray the beaming field, use precious glamor of enamel-ornamented lakes to decorate the beaut of lakes and adopt ancient bronze to inscribe magnificence of grass.



## CHARTS ON PANELS

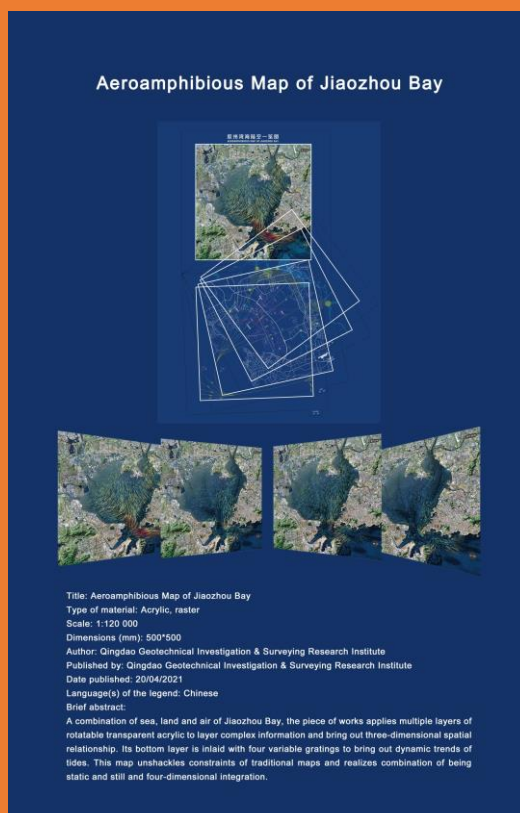
### CHN\_CP1

### Aeroamphibious Map of Jiaozhou Bay

Type of material	Acrylic, raster
Scale (if relevant)	1:120 000
Dimensions (mm)	500*500
Author(s)	Qingdao Geotechnical Investigation & Surveying Research Institute
Published by	Qingdao Geotechnical Investigation & Surveying Research Institute
Date of publication	20/04/2021
Language(s) of the legend	Chinese

### Abstract/Description (in English or French; 100 words max)

A combination of sea, land and air of Jiaozhou Bay, the piece of works applies multiple layers of rotatable transparent acrylic to layer complex information and bring out three-dimensional spatial relationship. Its bottom layer is inlaid with four variable gratings to bring out dynamic trends of tides. This map unshackles constraints of traditional maps and realizes combination of being static and still and four-dimensional integration.



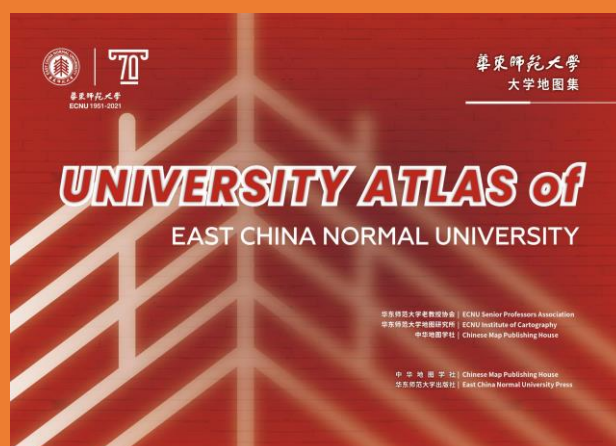
## ATLASES

### CHN\_AT1 [ University Atlas of East China Normal University ]

Type of material	Thematic Atlas with High-end printing papers and acrylic cover sleeve
Number of pages	219
Dimensions (mm)	260 x 30 x 290
Author(s)	Xi TANG, Shan LI, Shiyuan XU, Gongzhuo DU, Xiaoyi ZHU, Yongqing YIN, Feiran SUN, Ping HUANG, Yinda ZHENG, Weimin YANG, Yongxing SUN, Yuming HUANG, Yue HANG, Xueer WU, Meilin LIU, Ziwei JIANG, Yisu LIANG, Xuli YANG, Zhirui ZHANG
Published by	Chinese Map Publishing House;

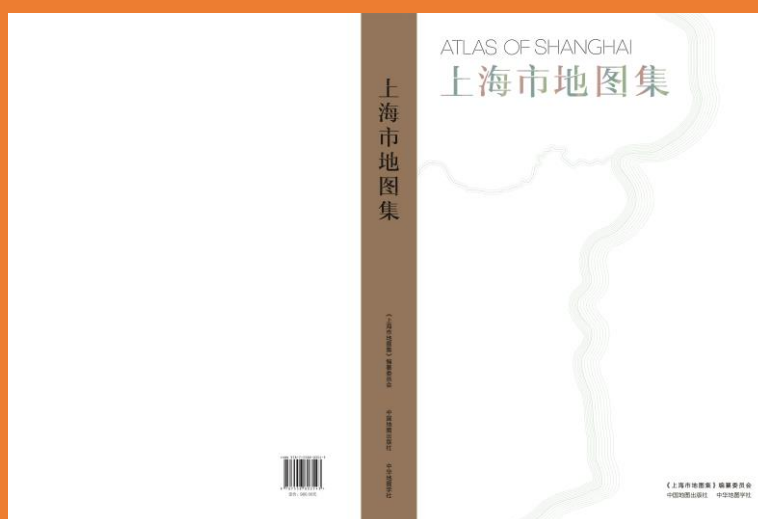


	East China Normal University Press	
Date of publication	30 August 2021	
Language(s) of the text	Chinese	
Abstract/Description (in English or French; 100 words max)	This item would be the world first atlas bear the name 'University' as its mapping theme, which illustrates the 70-year progress of ECNU. It succeeds in an 'Integrative and Narrative Information Design' concept, which establishes a dramatic storytelling script, and combines diverse forms of data visualization and infographics. It achieves visual harmony on its layouts by the fusion of several types of 'boundaries' among physical objects, spatial scales, and story scenarios. All the design solutions allow flexible cross-scale synergy, timeline coherence, and thematic counterpoint. This atlas is not a traditional portrayal of a campus, but is a powerful propaganda paradigm to a university's full-view figure.	



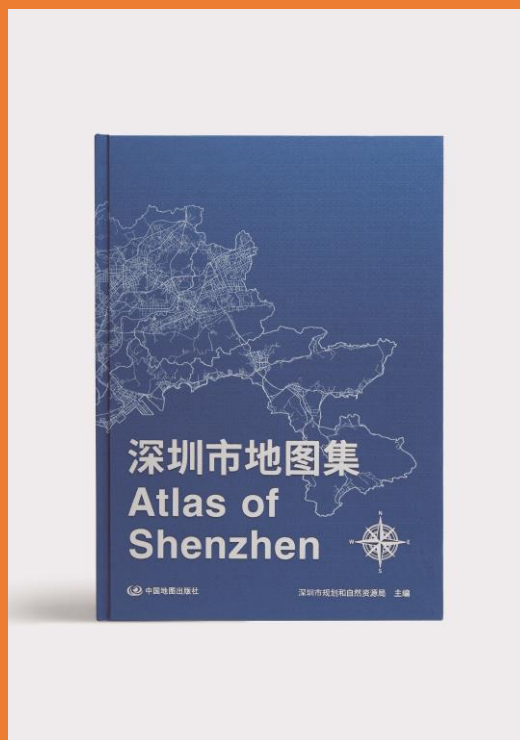
CHN_AT2	Atlas of Shanghai	
Type of material	DuPont paper	
Number of pages	304	
Dimensions (mm)	250*348	
Author(s)	Shanghai Surveying and Mapping Institute, Sinomap press, Wenqiang Yao/Jing Xin/Chenxi Yu/Meilan Liu/Xi Tang/Min Wang/Xin Luo/Aijun Lu/Zhongjin Lu/Chuan Cheng/Qingwei Wang/Shan Li/Heng Yang	
Published by	Sinomap Press, Chinese Map Publishing House	
Date of publication	June, 2021	
Language(s) of the text	Chinese with English Contents	
Abstract/Description (in English or French; 100 words max)	Atlas of Shanghai is a large-scale, comprehensive atlas that integrates science and art while being practical and easy to	

use. With the solid foundation of tremendous authoritative information from professional departments, the scientific design principle of "customizing geographical basemaps, giving themes to general maps, and diversifying thematic maps", and cutting-edge technologies and concepts in many fields such as cartography and informatics, the Atlas detailedly demonstrates Shanghai's achievements in economy, society, culture, people's livelihoods and eco-environment with the unique language of maps, refined illustration and logical structure. Therefore, it's reputed as a business card and an encyclopedia for Shanghai.



CHN_AT3		Atlas of Shenzhen	
Type of material	Paper		
Number of pages	300		
Dimensions (mm)	255*360		
Author(s)	Planning and Natural Resources Bureau of Shenzhen Municipality		
Published by	Sinomaps Press		
Date of publication	June, 2020		
Language(s) of the text	Chinese		
Abstract/Description (in English or French; 100 words max)	This Atlas is comprised of the thematic maps and city maps. The thematic maps record and demonstrate its development processes and remarkable achievements in an integrated and systematic manner on the social, economic, cultural, natural and governance fronts in such chapters as Shenzhen Image, Innovation-Driven Development, Natural Resources, Humanity and Society and Global Marine City. The city maps display geographical characteristics and current status of urban and featured areas in such chapters as Shenzhen New Faces. The		

printing technique of the Atlas has been certified as a China Environmental Labelling.

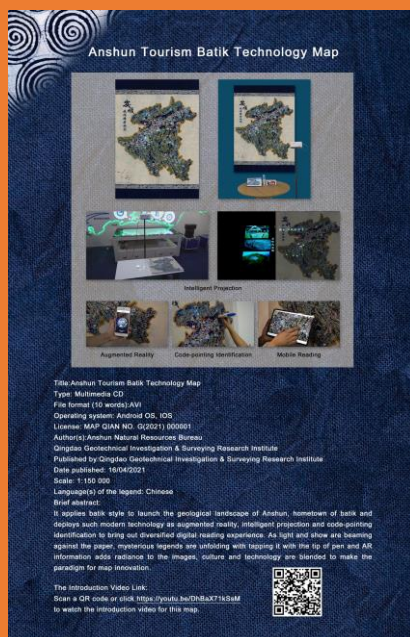


## DIGITAL PRODUCTS

CHN_DP1	Anshun Tourism Batik Technology Map
Type	multimedia CD
File format (10 words)	AVI
Operating system	Android OS, IOS
License	MAP QIAN NO. G(2021) 000001
Author(s)	Anshun Natural Resources Bureau Qingdao Geotechnical Investigation & Surveying Research Institute
Published by	Qingdao Geotechnical Investigation & Surveying Research Institute
Date of publication or most recent update	16/04/2021
Scale	1:150 000
Language(s) of the presentation	Chinese
Abstract/Description (in English or French; 100 words max)	It applies batik style to launch the geological landscape of Anshun, hometown of batik and deploys such modern technology as augmented reality, intelligent projection and code-pointing identification to bring out diversified digital reading experience. As light and show are beaming against the paper, mysterious legends are unfolding with tapping it



with the tip of pen and AR information adds radiance to the images, culture and technology are blended to make the paradigm for map innovation.



## OTHER CARTOGRAPHIC PRODUCTS

### CHN\_OC1

#### Han Garment

Author(s)	Qingdao Geotechnical Investigation & Surveying Research Institute
Type	Fabric
Dimensions (mm)	2200*1720
Published by	Qingdao Geotechnical Investigation & Surveying Research Institute
Date of publication	08/08/2021
Language(s) of the product	Chinese
Abstract/Description (in English or French; 100 words max)	With the concept of 'Han' as the bond, it unshackles the relationship between Han garment and maps and is a condensation of essence of the Chinese civilization. The upper garment and the lower part refer to heaven and earth, which are re-molded by applying ancient Chinese astronomical maps and ancient maps and are frilled with four orientation-showing spirits namely Azure Dragon, White Tiger, Sparrow and Basalt.



CHN_OC2		Multi-layer Paper-cut Map
Author(s)	Qingdao Geotechnical Investigation & Surveying Research Institute	
Type	Rice paper	
Dimensions (mm)	800*380	
Published by	Qingdao Geotechnical Investigation & Surveying Research Institute	
Date of publication	20/10/2021	
Language(s) of the product	Chinese	
Abstract/Description (in English or French; 100 words max)	By introducing three-dimensional paper-cut to map editing, it uses the method of color separation and multi-layered superposition for neo-realism and to bring out spirits with tangible objects. It breaks through panel effects of traditional maps, stresses three-dimensional sense, drastically extends expressive strength of powers, elevates restoration of real geological space and enhances artistic perception and insightful vision.	

### Multi-layer Paper-cut Map



Title: Multi-layer Paper-cut Map  
Author(s): Qingdao Geotechnical Investigation & Surveying Research Institute  
Type: Rice paper  
Dimensions (mm): 800\*380  
Published by: Qingdao Geotechnical Investigation & Surveying Research Institute  
Date published: 20/10/2021  
Language(s) of the legend: Chinese  
Brief abstract:  
By introducing three-dimensional paper-cut to map editing, it uses the method of color separation and multi-layered superposition for neo-realism and to bring out spirit with tangible objects. It breaks through panel effects of traditional maps, stresses three-dimensional sense, drastically extends expressive strength of powers, elevates restoration of real geological space and enhances artistic perception and insightful vision.



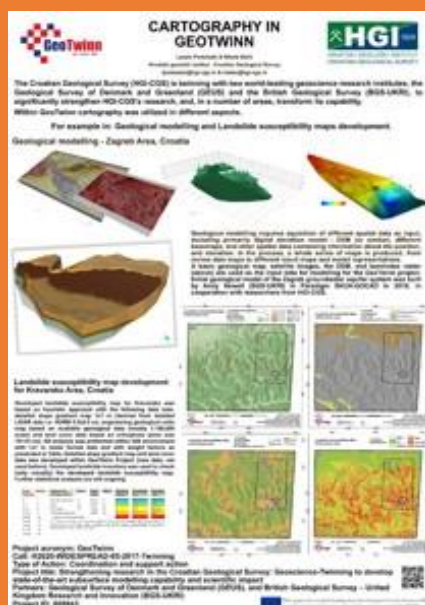
# CROATIA

## MAPS ON PANELS

### HRV\_MP1

### Cartography in GeoTwin

Type of material	GeoTwin Project Poster Presentation
Scale (if relevant)	Landslide susceptibility map scale 1:5000
Dimensions (mm)	707 x 1000 mm (B1)
Author(s)	Laszlo Podolszki, Nikola Belić
Published by	Croatian Geological Survey
Date of publication	2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	The Croatian Geological Survey is twinning with two world-leading geoscience research institutes, the Geological Survey of Denmark and Greenland and the British Geological Survey, to significantly strengthen research, and, in a number of areas, transform its capability. Within GeoTwin cartography was utilized in different aspects. For example in: (i) Geological modelling for Zagreb area (based on geological maps, satellite images, DEM and borehole data); and (ii) Landslide susceptibility map development for Kravarsko area (based on slope gradient data, engineering geological units and land cover data). These new interpretations are developed within GeoTwin and presented on this poster.



## HRV\_MP2

### Glina town walk-on floor map

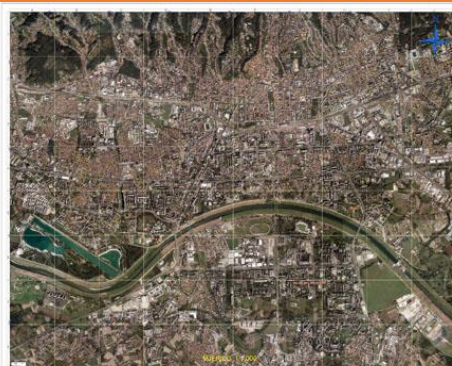
Type of material	Highly resistant laminate floor graphics
Scale (if relevant)	1:1000
Dimensions (mm)	8000 x 10000 mm
Author(s)	Igor Vilus
Published by	State Geodetic Administration
Date of publication	27 <sup>th</sup> September 2019
Language(s) of the legend	Croatian
Abstract/Description (in English or French; 100 words max)	Oversized walk-on floor map installed on the entrance hall of the Primary school Glina in the Glina town.



## HRV\_MP3

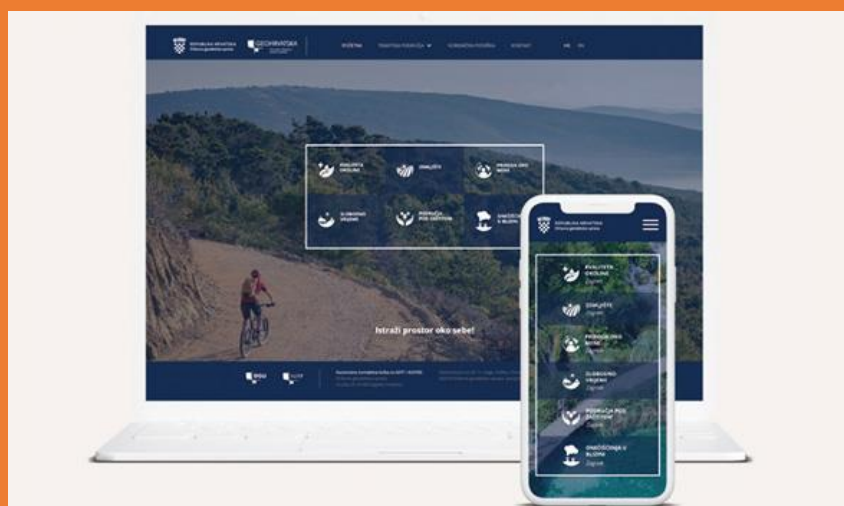
### Zagreb town walk-on floor map

Type of material	Highly resistant laminate floor graphics
Scale (if relevant)	1:1000
Dimensions (mm)	8000 x 10000 mm
Author(s)	Igor Vilus
Published by	State Geodetic Administration
Date of publication	18 <sup>th</sup> December 2020
Language(s) of the legend	Croatian
Abstract/Description (in English or French; 100 words max)	Oversized walk-on floor map installed on the entrance hall of the Primary school Ive Andrića in Zagreb town



## DIGITAL SERVICES

HRV_DS1 <i>GeoHrvatska – Spatial Data of the Republic of Croatia</i>	
Type of service	Application, OGC services
Format (10 words)	PNG, JPEG
Software platform	IGEO
URL web link	<a href="https://www.geohrvatska.hr/">https://www.geohrvatska.hr/</a>
License	<a href="https://www.geohrvatska.hr/en/termsOfUse.html">https://www.geohrvatska.hr/en/termsOfUse.html</a>
Author(s)	State Geodetic Administration
Published by	State Geodetic Administration
Date of publication or most recent update	15. 9. 2021. (updated)
Scale	Variable
Language(s) of the presentation	English
Abstract/Description (in English or French; 100 words max)	Browser GeoHrvatska has been developed by the State Geodetic Administration in cooperation with the National Spatial Data Infrastructure (NSDI) subjects and is available at <a href="http://www.geohrvatska.hr">www.geohrvatska.hr</a> . GeoHrvatska, enables the user, in a simple, mobile and intuitive way, to use the official spatial data of the NSDI subject, i.e. public authorities of the Republic of Croatia, and with the help of their location, explore the area surrounding them. GeoHrvatska integrates and visualizes the spatial data of NSDI subjects, divided into six thematic areas: Environmental Quality, Land, Nature around me, Leisure, Protected Areas and Nearby Pollution.



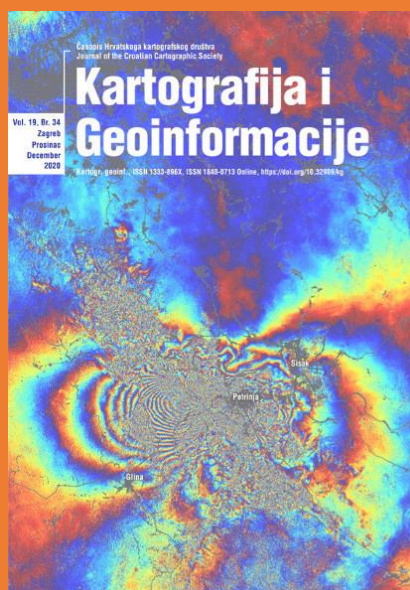
## OTHER CARTOGRAPHIC PRODUCTS



## HRV\_OC1

## Cartography and Geoinformation

Author(s)	Ana Kuveždić Divjak, Editor-in-Chief
Type	Journal, printed and online
Dimensions (mm)	210x297
Published by	The Croatian Cartographic Society
Date of publication	1 <sup>st</sup> January 2021
Language(s) of the product	English and Croatian
Abstract/Description (in English or French; 100 words max)	By publishing papers on new cartographic and geoinformatic knowledge, both about the application of latest discoveries and modern technologies and historical research, the Cartography and Geoinformation journal aims to contribute to the development of cartography, its promotion and widespread use of geoinformation. In addition to scientific and professional papers, the journal publishes reviews, news and announcements which serve to popularize cartography and geoinformation. All papers are published in both English and Croatian. More details are available at <a href="http://www.kartografija.hr">www.kartografija.hr</a>

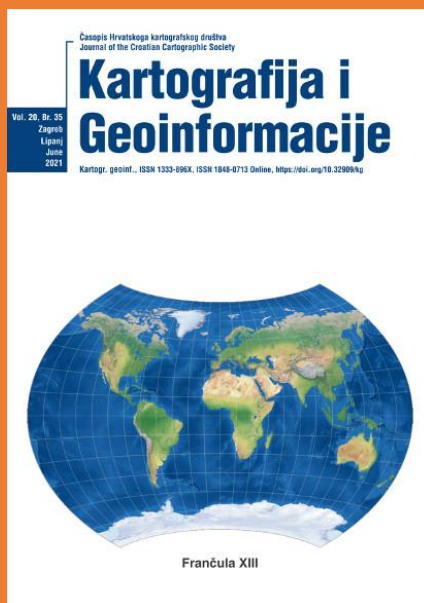


## HRV\_OC2

## Cartography and Geoinformation

Author(s)	Miljenko Lapaine, Editor-in-Chief
Type	Journal, printed and online
Dimensions (mm)	210x297
Published by	The Croatian Cartographic Society
Date of publication	1 <sup>st</sup> July 2021
Language(s) of the product	English and Croatian
Abstract/Description (in English or French; 100 words max)	The Cartography and Geoinformation journal publishes scientific and professional papers about cartography and other fields (geography, geodesy, geology, forestry,

agronomy, history, architecture, pedagogy...) associated with cartography and geoinformation. At least two reviewers review scientific and professional papers and at least one of the reviewers must be from abroad. Reviewers are active experts, generally with a PhD, who work in the research field associated with the paper proposed for publishing.

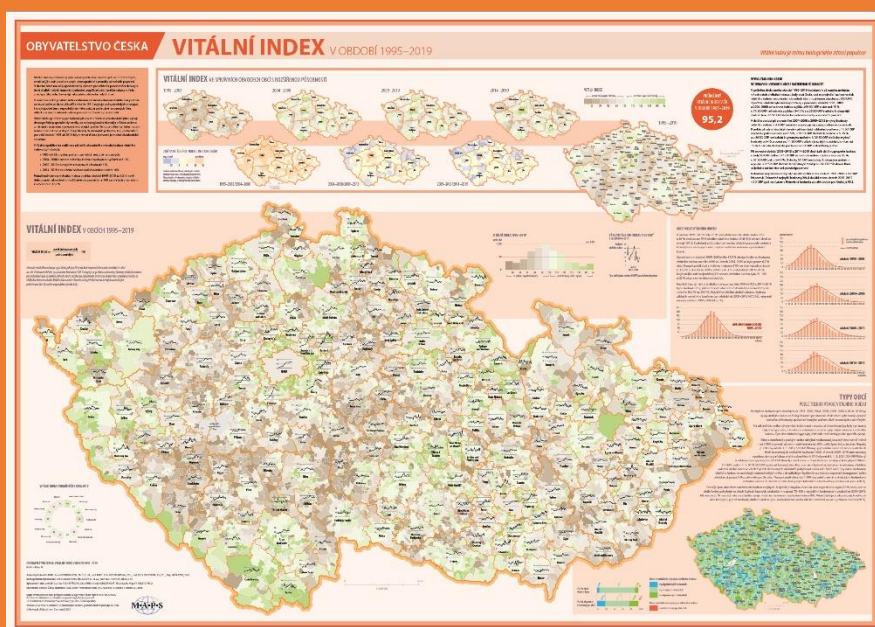


# CZECH REPUBLIC

## MAPS ON PANELS

### CZE\_MP1 Czech Republic Population: Vital Index (M·A·P·S. 14)

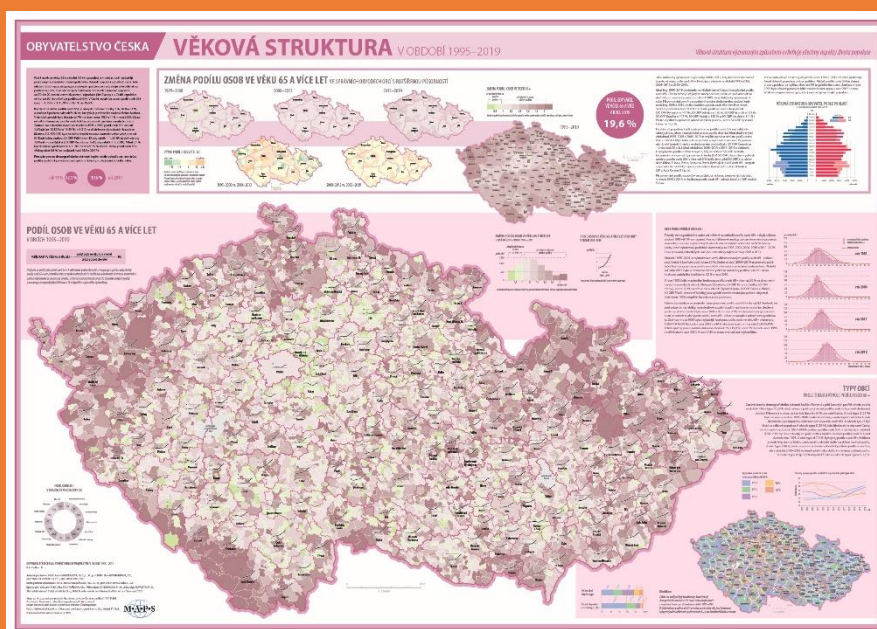
Type of material	Paper
Scale (if relevant)	1:500,000
Dimensions (mm)	1,189 x 841
Author(s)	Vondráková, A., Voženílek, V., Rychtaříková, J., Pászto V.
Published by	Palacký University Olomouc
Date of publication	2020
Language(s) of the legend	Czech
Abstract/Description (in English or French; 100 words max)	The map presents the development of the vital index of the Czech population in the period from 1995 to 2019 with a level of details LAU 2 (NUTS 5). In the main map, the development is shown by area color (LAU 2) and a graph for a higher territorial unit (municipalities with extended competencies). The side maps show the data for significant time periods as well as the development of changes over the period 1995 to 2019. The map is published within Map and Atlas Products Series (M·A·P·S.), created by the Department of Geoinformatics, Palacký University Olomouc.





## CZE\_MP2 Czech Republic Population: Age Structure (M·A·P·S. 15)

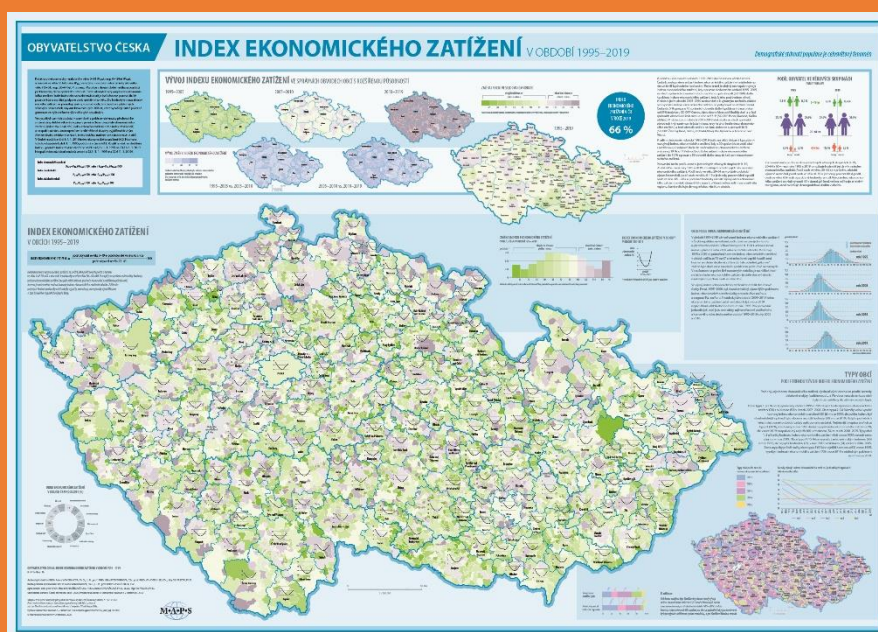
Type of material	Paper
Scale (if relevant)	1:500,000
Dimensions (mm)	1,189 x 841
Author(s)	Vondráková, A., Voženílek, V., Rychtaříková, J., Pászto V.
Published by	Palacký University Olomouc
Date of publication	2020
Language(s) of the legend	Czech
Abstract/Description (in English or French; 100 words max)	The map presents the development of the age structure of the Czech population in the period from 1995 to 2019 with a level of details LAU 2 (NUTS 5). In the main map, the development is shown by area color (LAU 2) and a graph for a higher territorial unit (municipalities with extended competencies). The side maps show the data for significant time periods as well as the development of changes over the period 1995 to 2019. The map is published within Map and Atlas Products Series (M·A·P·S.), created by the Department of Geoinformatics, Palacký University Olomouc.



## CZE\_MP3 Czech Republic Population – Economic Burden Indicator (M·A·P·S. 16)

Type of material	Paper
Scale (if relevant)	1:500,000
Dimensions (mm)	1,189 x 841

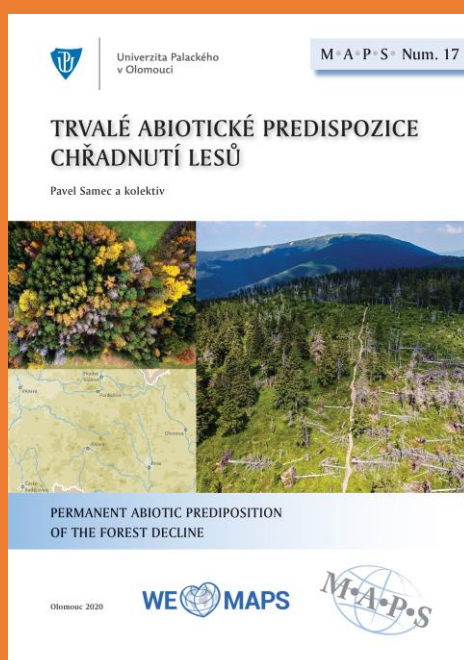
Author(s)	Vondráková, A., Voženílek, V., Rychtaříková, J., Pászto V.
Published by	Palacký University Olomouc
Date of publication	2020
Language(s) of the legend	Czech
Abstract/Description (in English or French; 100 words max)	The map presents the development of the vital index of the Czech population in the period from 1995 to 2019 with a level of details LAU 2 (NUTS 5). In the main map, the development is shown by area color (LAU 2) and a graph for a higher territorial unit (municipalities with extended competencies). The side maps show the data for significant time periods as well as the development of changes over the period 1995 to 2019. The map is published within Map and Atlas Products Series (M.A.P.S.), created by the Department of Geoinformatics, Palacký University Olomouc.



## CZE\_MP4 Permanent Abiotic Predisposition of the Forest Decline (M.A.P.S. 17)

Type of material	Paper
Scale (if relevant)	1:2,250,000
Dimensions (mm)	1,189 x 841
Author(s)	Samec, P., Rychtecká, P., Kudělková, R., Zapletal, M., Barvíř, R., Voženílek, V., Vondráková, A.

Published by	Palacký University Olomouc
Date of publication	2020
Language(s) of the legend	Czech
Abstract/Description (in English or French; 100 words max)	Forest ecosystems are influenced by the abiotic growth environment of the soil and atmosphere (predictors) and the living components dominated by woody plants (receptors). Predictors can take both favourable and unfavourable values, with unfavourable values indicating a predisposition that threatens forest health. The co-occurrence of unfavourable values of several predictors causes progressive forest decline. Using maps of eight key predictors, differentiated into climatic and acidification predictors, areas of the potential decline of Czech forests were defined by cartographic typification. The map is published within Map and Atlas Products Series (M·A·P·S·) by the Department of Geoinformatics, Palacký University Olomouc.



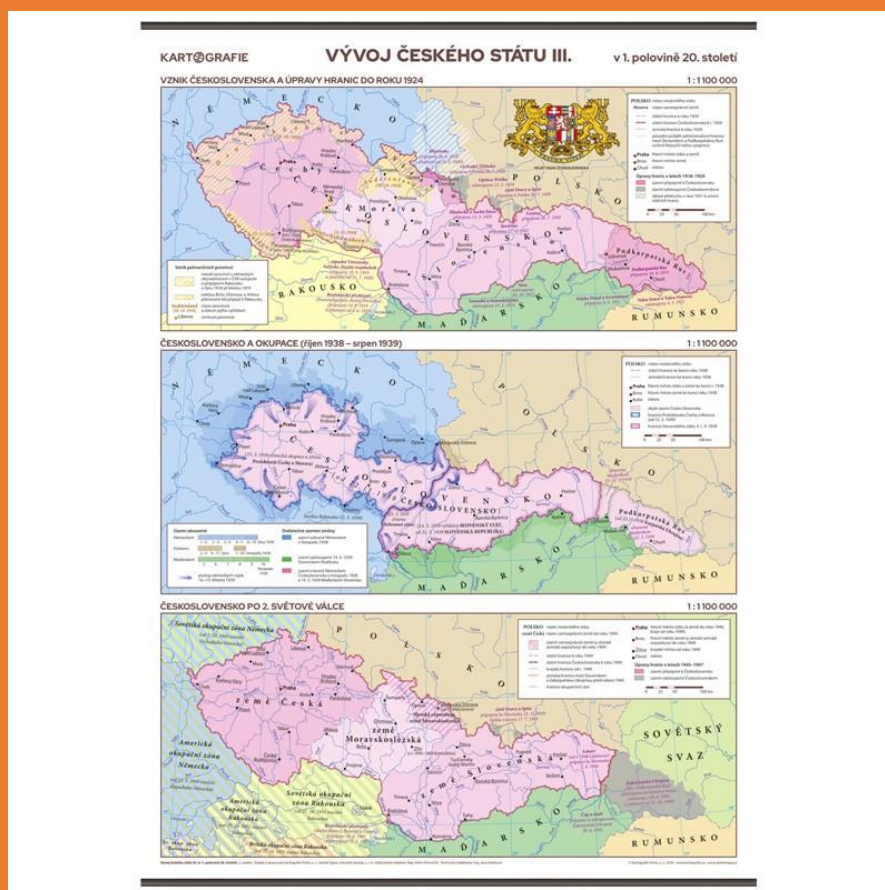
## CZE\_MP5 *Development of the Czech State in the First Half of the 20<sup>th</sup> Century)*

Type of material	Paper
Scale (if relevant)	1:1,100,000
Dimensions (mm)	1,360 × 960
Author(s)	Kartografie PRAHA
Published by	Kartografie PRAHA
Date of publication	2020
Language(s) of the legend	Czech



### Abstract/Description (in English or French; 100 words max)

A new edition of the history wall map presents the development of Czechoslovakia from the collapse of Austria-Hungary to 1948 on three thematic maps. The maps depict territorial gains and losses during and after both World Wars and the post-war organization of the former state, border adjustments, and the main directions of foreign troops during the occupation of Czechoslovakia in 1939. The map is supplemented by a miniature, which students can use independently.



### CZE\_MP6

### Czech Republic – Ethnographic Regions

Type of material	Paper
Scale (if relevant)	numerical scale not specified
Dimensions (mm)	1,400 × 1,000
Author(s)	STIEFEL EURO CART
Published by	STIEFEL EURO CART
Date of publication	2020
Language(s) of the legend	Czech
Abstract/Description (in English or French; 100 words max)	The wall map was created in cooperation with the Ethnological Institute of the Academy of Sciences of the Czech Republic. The aim is to awaken pupils' interest in the

[illegible]66



## CZE\_MP8

### Gift Set of Maps of Slovakia 1:40,000

Type of material	paper
Scale (if relevant)	1:40,000
Dimensions (mm)	960 × 660 (folded 107 × 165)
Author(s)	SHOCart
Published by	SHOCart
Date of publication	2020
Language(s) of the legend	Slovak, Czech, English, German, Polish
Abstract/Description (in English or French; 100 words max)	The set of maps covers the complete area of Slovakia. It is a limited edition; the set contains 48 maps. The set has its own set of sheets; individual maps from this set are not for sale. The 1:40,000 scale maps are in great demand for their readability and clarity. The maps contain a complete network of marked hiking and biking trails. In addition, they include recommended cycle routes. Maps are created by the Czech cartographic publishing house SHOCart.

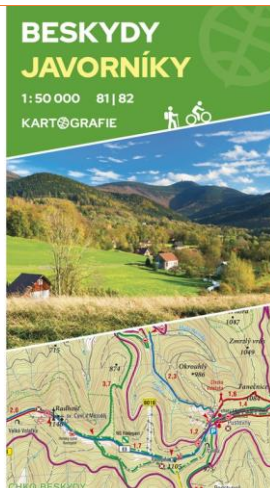




## CZE\_MP9

### Beskydy, Javorníky Mountains 1:50,000

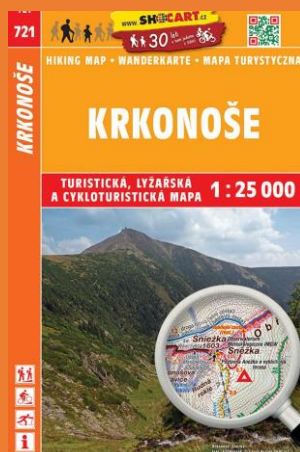
Type of material	paper
Scale (if relevant)	1:50,000
Dimensions (mm)	960 × 650 (folded 120 × 220)
Author(s)	Kartografie PRAHA
Published by	Kartografie PRAHA
Date of publication	2020
Language(s) of the legend	Czech, English, German
Abstract/Description (in English or French; 100 words max)	A map presents attractive tourist localities in the Czech Republic, Beskydy and Javorníky Mountains, where the space on both sides of the sheet is used for the map. The tourist content includes castles, chateaus, ruins, lookout towers, nature reserves, places of distant view and much other information. The map also shows a network of marked cycle routes. The map also includes the WGS-84 coordinate grid, which will be used especially by owners of GPS navigation systems and the UTM kilometre grid for easier estimation of distances.



## CZE\_MP10

### Krkonoše Mountains 1:25,000

Type of material	paper
Scale (if relevant)	1:25,000
Dimensions (mm)	960 × 660 (folded 107 × 165)
Author(s)	SHOCart
Published by	SHOCart
Date of publication	2020
Language(s) of the legend	Czech, Slovak, English, German, Polish
Abstract/Description (in English or French; 100 words max)	A double-sided tourist map presents the attractive area of the Krkonoše Mountains at a scale of 1:25,000. The map is a hiking, skiing, and cycling map. It includes nature trails, cycling routes, ski trails, bike parks, cross-country skiing trails, downhill trails and much more. The map was created by the Czech cartographic publishing house SHOCart.

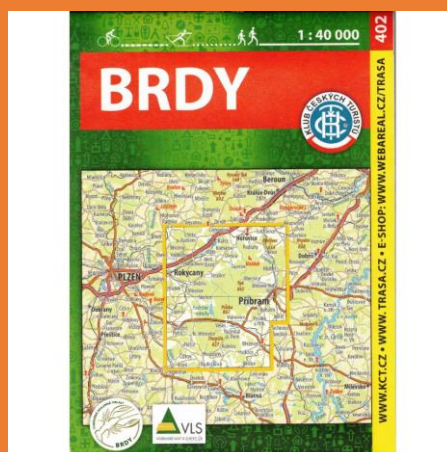


CZE_MP11		Lerici, city map
Type of material	paper	
Scale (if relevant)	1:7,500	
Dimensions (mm)	376 × 400 (folded 100 × 188)	
Author(s)	JN-kart	
Published by	JN-kart	
Date of publication	2020	
Language(s) of the legend	Italian, English, German	
Abstract/Description (in English or French; 100 words max)	The promotional plan of the town of LERICI, San Terenzo Tellaro, Golfo dei Poeti, which is intended to promote tourism, is trilingual (Italian, English, German). Created and published by the small publishing house JN-kart.	



CZE_MP12		Brdy Mountains 1:40,000
Type of material	paper	
Scale (if relevant)	1:40,000	
Dimensions (mm)	985 × 680 (folded 123 × 170)	
Author(s)	Czech Tourist Club	
Published by	Czech Tourist Club	
Date of publication	2020	
Language(s) of the legend	Czech, English, German, Polish	
Abstract/Description (in English or French; 100 words max)	The Czech Tourist Club, in cooperation with the Military Forests and Estates of the Czech Republic and the administration of Brdy Protected Landscape Area, has published this double-sided folded map of the entire Brdy Protected Landscape Area at a scale of 1:40,000 with the current hiking and cycling trails (summer 2020). On the side, the map has a detailed text section with the necessary contacts.	

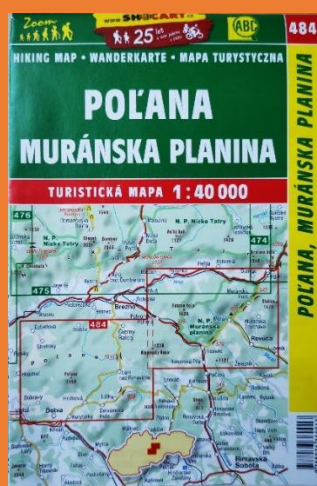




### CZE\_MP13

### Pol'ana, Muráň Plain – touristic map 1:40,000

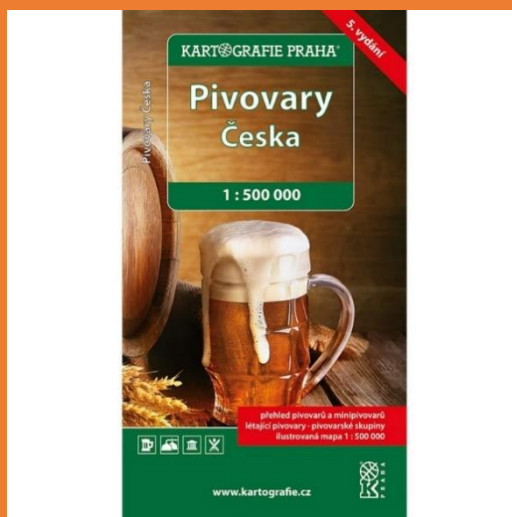
Type of material	paper
Scale (if relevant)	1:40,000
Dimensions (mm)	960 × 660 (folded 107 × 165)
Author(s)	SHOCart
Published by	SHOCart
Date of publication	2019
Language(s) of the legend	Czech, Slovak, English, German, Polish
Abstract/Description (in English or French; 100 words max)	The map represents a high quality 1:40,000 scale tourist map produced by SHOCart. The more detailed scale is especially suitable for more rugged terrains in Slovakia. The map combines hiking and cycling marked routes, uses time distance display and supports the use of global navigation satellite systems.



## CZE\_MP14

### Czech Breweries 1:500,000

Type of material	paper
Scale (if relevant)	1:500,000
Dimensions (mm)	985 × 665 (folded 107 × 164)
Author(s)	Kartografie PRAHA
Published by	Kartografie PRAHA
Date of publication	2019
Language(s) of the legend	Czech, English, German
Abstract/Description (in English or French; 100 words max)	The unique map of the Czech Republic complements and expands the list of all operating breweries, small, medium-sized and the largest ones, from the previous edition. Over 450 breweries, including industrial breweries and microbreweries, operating in Bohemia, Moravia, and Silesia. All are depicted on a map. Areas with a dense concentration of businesses, such as Prague, Pilsen, Brno, and Ostrava, are more detailed in map frames at the back. A complete overview of all breweries, including those yet to be built, can be found in the brochure which is an integral part of the map.

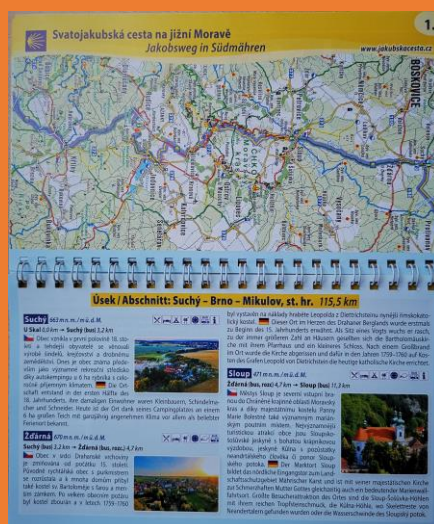


## CZE\_MP15

### Wandering in South Moravia and Weinviertel

Type of material	paper
Scale (if relevant)	variable
Dimensions (mm)	300 × 235
Author(s)	SHOCart
Published by	SHOCart
Date of publication	2019
Language(s) of the legend	Czech, German
Abstract/Description (in English or French; 100 words max)	The bilingual map set continues the tradition of pilgrimage maps. It contains pilgrimage sites, routes, and places of interest in their surroundings, processed through maps and accompanying texts and pictorial appendices. The

map legend is based on classic tourist maps. The map is extended with the visualization of St. James and Cyril and Methodius Trails.



## CZE\_MP17

## USE-IT Prague

Type of material	paper
Scale (if relevant)	not specified
Dimensions (mm)	405 × 675 (folded 135 × 135)
Author(s)	Jůzit
Published by	Jůzit
Date of publication	2019
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	The map responds to the issue of overtourism in Prague originally. It depicts the city centre to draw tourists' attention to activities and attractions outside the most attractive tourist locations. It shows on one side the alternative walking route to the most important sights; the other side of the map guides tourists to the surrounding neighbourhoods. Illustrations, map symbols, and text support the same idea, highlighting tourist traps and interesting local places, showing the city through the eyes of locals.

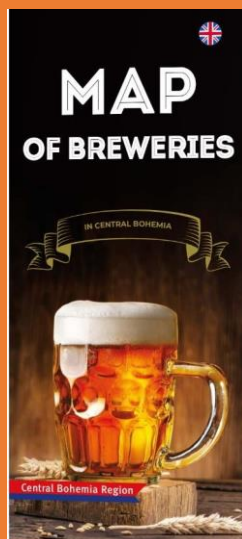




## CZE\_MP18

### Map of Breweries

Type of material	paper
Scale (if relevant)	1:300,000
Dimensions (mm)	600 × 420 (folded 200 × 100)
Author(s)	Central Bohemia Tourist Board
Published by	Central Bohemia Tourist Board
Date of publication	2019
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	The map presents breweries in the Central Bohemia Region in Czechia. There are 20 breweries with annotation on the backside of the map, map symbols for all other breweries in the region, and cider houses. The map support “beer-tourism” in Czechia.



## CZE\_MP19

### Fishing Map: Pilsen Region

Type of material	paper
Scale (if relevant)	1:165,000
Dimensions (mm)	940 × 660
Author(s)	SHOCart
Published by	Pilsen Region
Date of publication	2019
Language(s) of the legend	Czech, German, English
Abstract/Description (in English or French; 100 words max)	The fishing map presents the Pilsen region from the perspective of the Czech Fishermen's Association districts. The map shows areas, sections of rivers with a fishing permit or with a fishing ban. On the second side of the map is further detailed information about fishing districts.

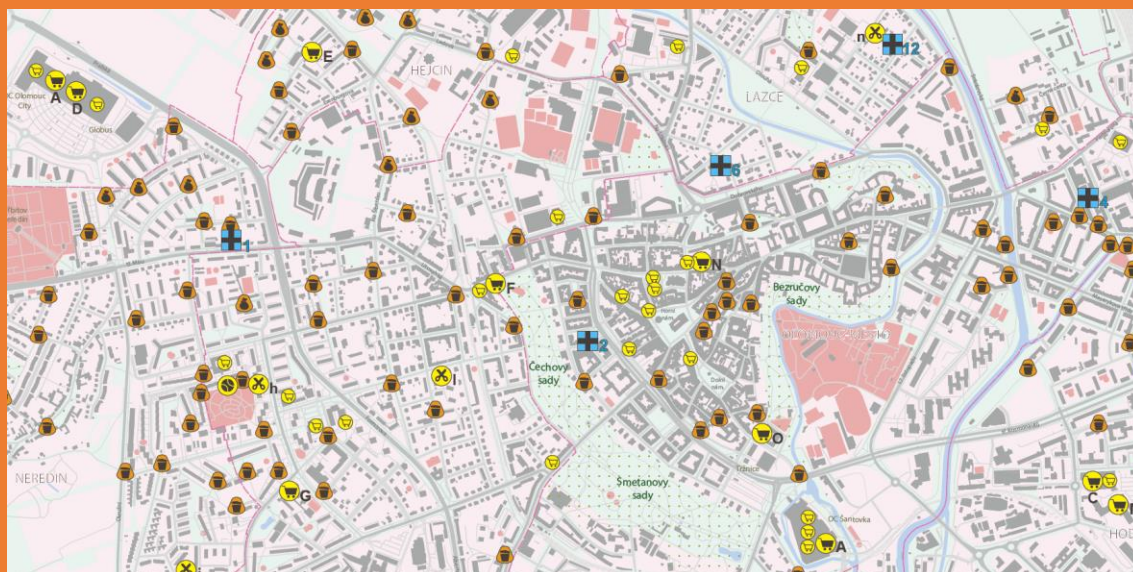


## CZE\_MP20

### Olomouc Facilities for Dog Owners and Breeders

Type of material	paper
Scale (if relevant)	1:20,000, 1:10,000
Dimensions (mm)	847 × 1,195
Author(s)	Tomáš Vaníček
Published by	Palacký University Olomouc
Date of publication	2020
Language(s) of the legend	Czech
Abstract/Description (in English or French; 100 words max)	The map is one of the outcomes of the bachelor's thesis created by Tomáš Vaníček at the Department of Geoinformatics, Palacký University Olomouc. The main aim of the thesis was to integrate different data sources about the movement and occurrence of dogs in Olomouc.

The map presents the most important facilities and characteristics. The map was nominated for the Map of the Year award (cartographic competition organized by the Czech Cartographic Society) in the Student's work category.



## ATLASES

### CZE\_AT1

### Czech Linguistic Atlas: Shortening Vowels

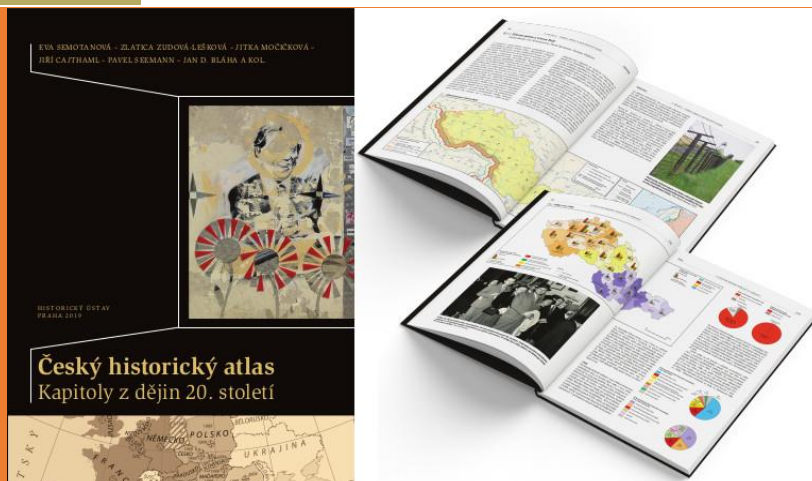
Type of material	book, wire twin
Number of pages	55
Dimensions (mm)	297 × 420
Author(s)	Ireinová, M., Voženílek, V., Pospíšil, M., Koníček, J., Vondráková, A.
Published by	Palacký University Olomouc
Date of publication	2020
Language(s) of the text	Czech
Abstract/Description (in English or French; 100 words max)	The Atlas introduces vowel shortening in Czech dialects. The first section of the Atlas contains dialect maps showing vowels shortening in 16 selected words. The maps present the spatial distribution of the vowel variants (in the nominative, sometimes also in genitive). The second section of the Atlas contains synthetic dialect maps compiled by typification and regionalization using the maps in the first section. The Atlas is the outcome of cooperation between cartographers from the Department of Geoinformatics, Palacký University Olomouc, and experts from the Czech Language Institute of the Czech Academy of Sciences.



**CZE\_AT2** *Czech Historical Atlas. Chapters from the History of the 20<sup>th</sup> Century*

Type of material	book, hard cover
Number of pages	297
Dimensions (mm)	240 x 325
Author(s)	Cajthaml, Jiří, Močičková, Jitka, Seemann, Pavel, Semotanová, Eva a Zudová - Lešková, Zlatica
Published by	Institute of History of the Czech Academy of Sciences, Faculty of Civil Engineering, Czech Technical University in Prague
Date of publication	2019
Language(s) of the text	Czech, English
Abstract/Description (in English or French; 100 words max)	The Atlas represents the outcome of the long-lasting cooperation of a team of experts from the Institute of History of the Czech Academy of Sciences, experts from the Department of Geomatics of the Czech Technical University, and experts from the Department of Social Geography and Regional Development of Charles University. The Atlas is divided into three sections: Space, Time, and Society. It contains historical maps with historically important and attractive themes in the 20 <sup>th</sup> century. Maps presents cartographically depicted historical events still attractive to the professionals as well as non-professionals.

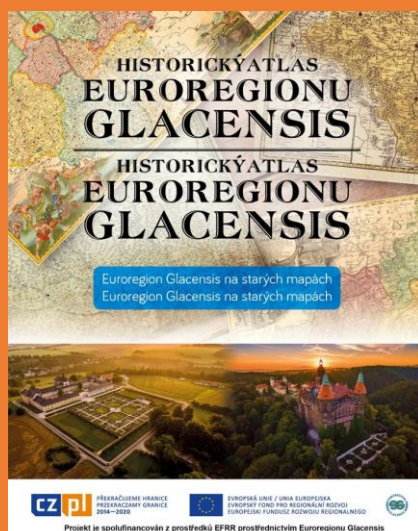




### CZE\_AT3

### Historical Atlas of the Glacensis Euroregion

Type of material	book, hard cover
Number of pages	144
Dimensions (mm)	300 × 380
Author(s)	Kučera, Z.
Published by	Glacensis Euroregion
Date of publication	2019
Language(s) of the text	Czech, Polish
Abstract/Description (in English or French; 100 words max)	The Atlas aims to enable the reader to form a basic idea of the development of the Glacensis Euroregion on the original and derived old maps of Bohemia, Moravia, Silesia, and Kłodzko. Maps are described in short texts that provide a more detailed analysis of the depiction of this area. The reader can gain knowledge about the historical development of geodesy, topography and especially cartography, and the authors of individual maps. The whole set of maps can be a base for historical research in the presented territory.

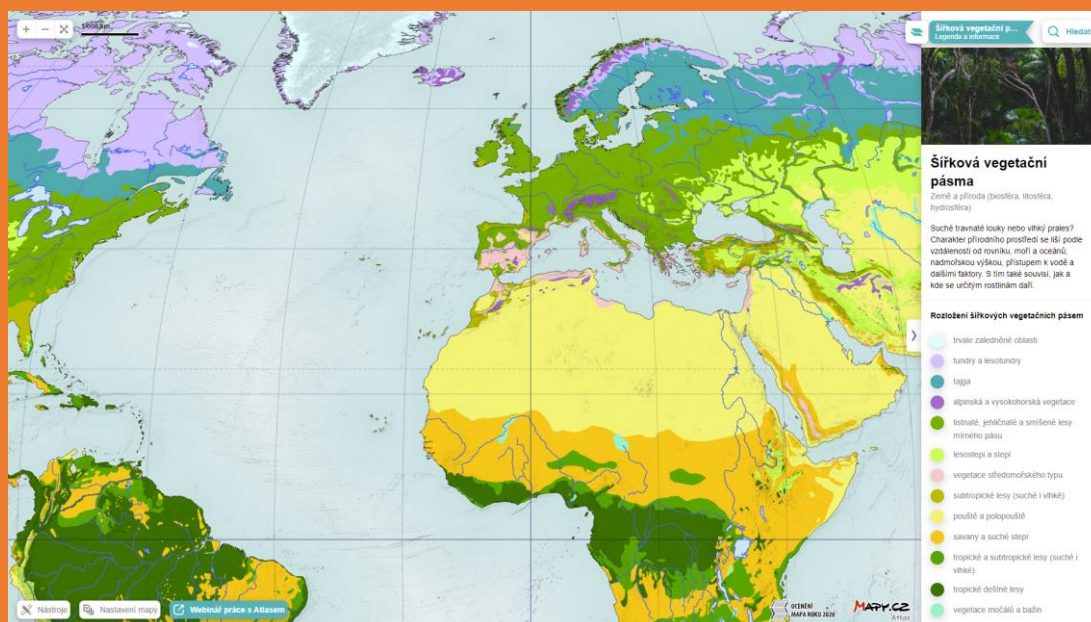


## DIGITAL PRODUCTS

### CZE\_DP1

### Interactive World Atlas: Atlas.Mapy.cz

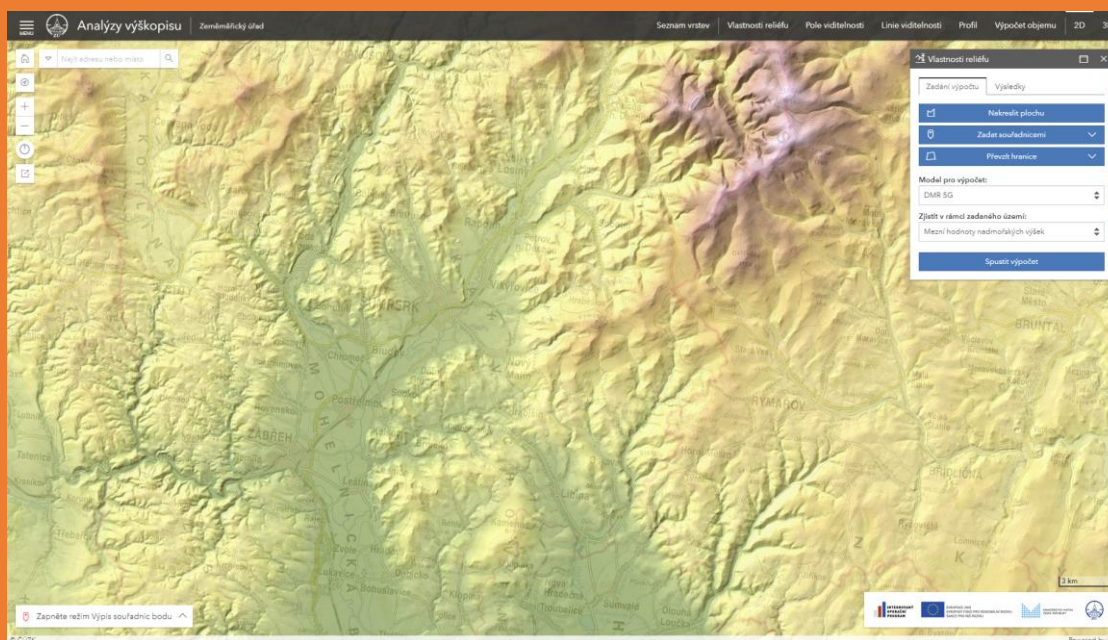
Type	web map application
File format (10 words)	web application
Operating system	---
License	© Seznam.cz, 2021
Author(s)	Seznam.cz
Published by	Seznam.cz
Date of publication or most recent update	2021
Scale	multi-scale
Language(s) of the presentation	Czech
Abstract/Description (in English or French; 100 words max)	The interactive world atlas "Atlas.Mapy.cz" is an online alternative to traditionally used school atlases. It is currently running as a beta version, free of charge. It contains more than 50 maps in nine sections (e.g. Earth and Nature, Weather and Climate, Environment, Politics and International Relations). Maps are constantly being added and updated. The maps can be adapted to student or teacher preferences. It allows interactive searches, comparisons and much more. Sample geography lesson materials are also available for easier implementation in teaching geography.



## CZE\_DP2

## Elevation Analysis

Type	web map application
File format (10 words)	web application
Operating system	---
License	© ČÚZK, 2021
Author(s)	Zeměměřický úřad (Land Survey Office)
Published by	Český zeměměřický úřad (State Administration of Land Surveying and Cadastre)
Date of publication or most recent update	2021
Scale	multi-scale
Language(s) of the presentation	Czech
Abstract/Description (in English or French; 100 words max)	The new generation of Geoportal applications was introduced in 2020 by the Land Survey Office. The Elevation Analysis application has many improvements over the previous version, especially in the user interface area. The individual widgets that allow the user to set up and run calculations are better optimized for touchscreen devices, and the calculation results have their tab in each widget. Also, other functionality, such as the calculations in a 3D view, was improved. The application is available at <a href="https://ags.cuzk.cz/av">https://ags.cuzk.cz/av</a>



## CZE\_DP3

## Archive

Type	web map application
File format (10 words)	web application
Operating system	---
License	© ČÚZK, 2021



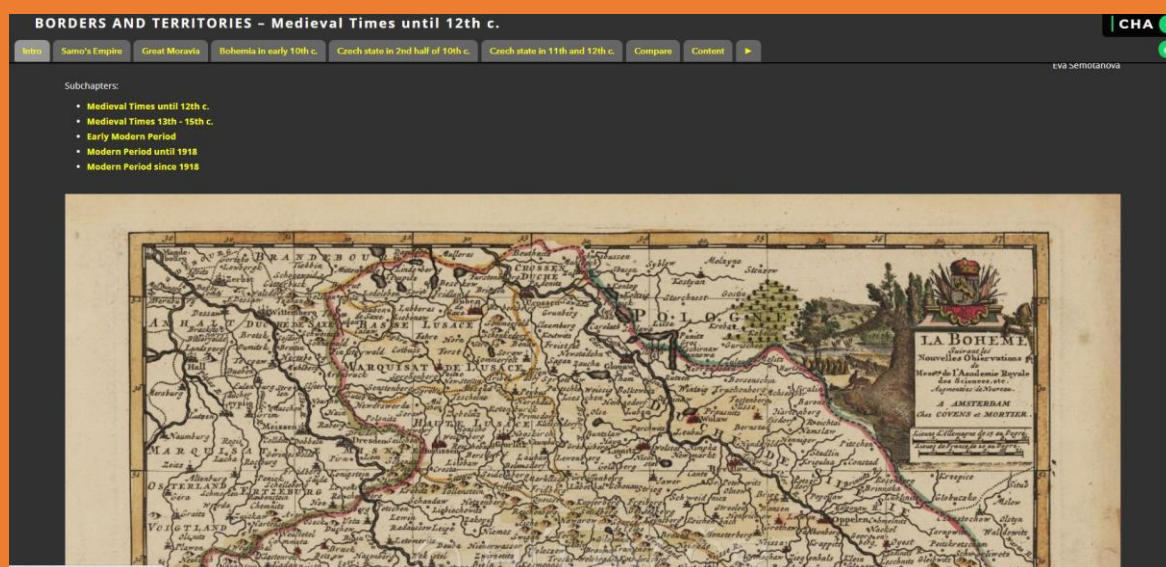
Author(s)	Zeměměřický úřad (Land Survey Office)
Published by	Český zeměměřický úřad (State Administration of Land Surveying and Cadastre)
Date of publication or most recent update	2021
Scale	adjustable
Language(s) of the presentation	Czech
Abstract/Description (in English or French; 100 words max)	The Archive application belongs to the new generation of applications of the Land Survey Office. The Archive application itself combines the viewing of the archive maps and the archive of aerial surveys. After placing a point or polygon on the map and selecting a category, a preview of the found archival material is displayed, which the user can open in a new browser window. Additional relevant information and tools are available when viewing the archival details. The application is available at <a href="https://ags.cuzk.cz/archiv">https://ags.cuzk.cz/archiv</a>



CZE_DP4	Czech Historical Atlas Portal
Type	web map application
File format (10 words)	web application
Operating system	---
License	© Czech Technical University in Prague and Historical Institute of the Czech Academy of Sciences.
Author(s)	Czech Technical University in Prague and Historical Institute of the Czech Academy of Sciences.



Published by	Czech Technical University in Prague and Historical Institute of the Czech Academy of Sciences
Date of publication or most recent update	2021
Scale	multi-scale
Language(s) of the presentation	Czech, English
Abstract/Description (in English or French; 100 words max)	Map portal Czech Historical Atlas is dedicated to Czech and Czechoslovak history in the international context. It opens unique access to historical maps and their description. The portal presents historical sciences in modern cartography, thus contributing to preserving national memory and the formation of historical awareness in society. The printed atlas and web map portal are the outcomes of the cooperation between the Institute of History of the Czech Academy of Sciences and the Department of Geomatics at the Czech Technical University in Prague. The portal is available at <a href="https://cha.fsv.cvut.cz/en/">https://cha.fsv.cvut.cz/en/</a>



<b>CZE_DP5</b>		<b>School Atlas of Today's World</b>	
Type	web map application		
File format (10 words)	web application		
Operating system	---		
License	© TERRA-KLUB, 2021		
Author(s)	TERRA-KLUB		
Published by	TERRA-KLUB		
Date of publication or most recent update	2021		
Scale	multi-scale		
Language(s) of the presentation	Czech		

### Abstract/Description (in English or French; 100 words max)

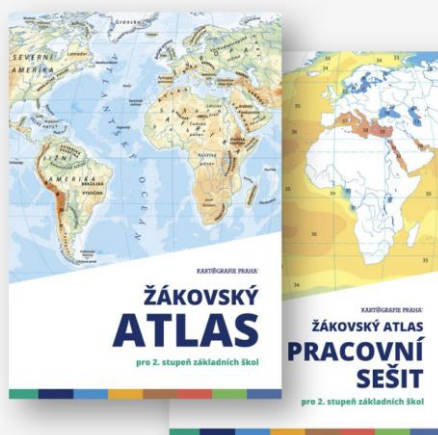
The School Atlas of Today's World is a digital version that expands the printed version of the so-called atlas. Both the printed atlas and its digital version are very popular in Czechia. The modern online version includes the interactive parts, interactive tasks for students, links to multimedia content, etc. A special application for teaching plans is also included.



## EDUCATIONAL PRODUCTS

### CZE\_EP1 Set of Atlas and Workbook for 2<sup>nd</sup> Grade of Primary Schools

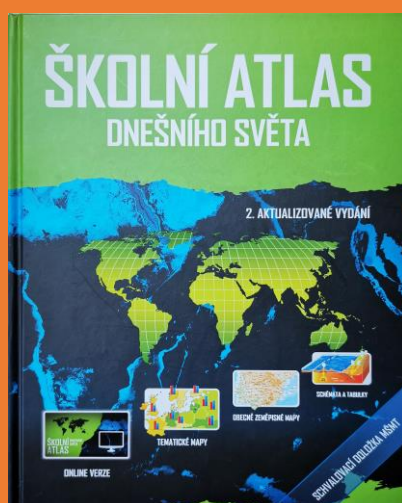
Author(s)	Kartografie PRAHA
Type	atlas and workbook
Dimensions (mm)	320 × 230 (2 books)
Published by	Kartografie PRAHA
Date of publication	2019
Language(s) of the product	Czech
Abstract/Description (in English or French; 100 words max)	The first book of the set is a modern school atlas for geography teaching, inspired by school atlases worldwide. The Atlas contains sections dedicated to the universe, the world, individual continents, and the Czech Republic. This content made it possible to present the Czech Republic in the context of the whole world. The workbook complements the Atlas and enables pupils to train newly gained knowledge and apply it within thematic tasks. The target user group are pupils in the second grade of primary schools (age 11 to 15).



## CZE\_EP2

### School Atlas of Today's World

Author(s)	TERRA-KLUB
Type	atlas
Dimensions (mm)	327 × 251
Published by	TERRA-KLUB
Date of publication	2019
Language(s) of the product	Czech
Abstract/Description (in English or French; 100 words max)	The presented book is the second updated and expanded edition of the School Atlas of Today's World. The Atlas is available in a printed version also a follow-up by a digital online version. It is designed for modern teaching; the unique content includes many thematic maps using various methods of cartographic visualization. Also, a lot of graphs, diagrams, texts, and infographics are in the map layouts.





## CZE\_EP3

## Magnetic Hand-painted Map of the Czech Republic

Author(s)	CBS Nakladatelství
Type	magnetic map
Dimensions (mm)	1,500 × 1,000
Published by	CBS Nakladatelství
Date of publication	2019
Language(s) of the product	Czech
Abstract/Description (in English or French; 100 words max)	The map is intended for primary school pupils. It aims to engage the user (children) in an interactive way and with a pleasant design (hand-painted map) and teach them about the Czech Republic through the game. School through play is interesting for pupils, and it is also a great addition to traditional geography teaching. Its use extends beyond schools; it can be used in any children's space. Due to the size, only informative poster will be presented.



## OTHER CARTOGRAPHIC PRODUCTS

### CZE\_OC1

#### *Interactive 3D Models of Historical Monuments*

Author(s)	Department of Geoinformatics, Palacký University Olomouc
Type	3D plastic models
Dimensions (mm)	500 × 500 × 300
Published by	Department of Geoinformatics, Palacký University Olomouc
Date of publication	2021
Language(s) of the product	English
Abstract/Description (in English or French; 100 words max)	People with visual impairment suffer from a lack of information about 3D geospace and objects. Through interactive 3D models of historical monuments in Czechia, this deficit is replaced by multisensory action, allowing users to obtain a large amount of contextual information. The models are created within a research project at the Department of Geoinformatics and the Institute of Special Education, Palacký University Olomouc.

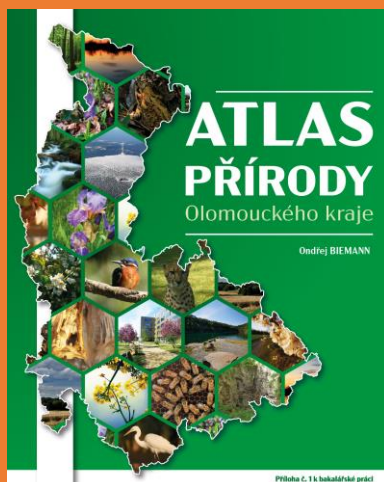


### CZE\_OC2

#### *Atlas of Natural Characteristics of Olomouc Region*

Author(s)	Ondřej Biemann
Type	atlas and workbook (bachelor thesis outcome)
Dimensions (mm)	320 × 255 (2 books)
Published by	Palacký University Olomouc
Date of publication	2021
Language(s) of the product	Czech
Abstract/Description (in English or French; 100 words max)	The thesis aimed to create a cartographic publication that summarizes important and interesting information about the natural and geographical characteristics of the Olomouc Region (Czechia) in a clear and attractive form. The resulting product is Atlas of Nature of Olomouc Region, 59 pages, containing 65 maps in seven chapters dealing with the most important geographical and environmental topics. A workbook accompanies it. Both books are the outcome of

the bachelor thesis and were created by student Ondřej Biemann.



### CZE\_OC3 Handbook: Innovative Forms of Graduated Symbol Maps

Author(s)	Andrea Hohnová
Type	book (diploma thesis outcome)
Dimensions (mm)	305 × 220
Published by	Palacký University Olomouc
Date of publication	2019
Language(s) of the product	Czech
Abstract/Description (in English or French; 100 words max)	The diploma thesis was focused on the practical implementation of graduated symbol maps. The creation of non-traditional forms of graduated symbol maps is directly related to the creation various diagrams and charts. The handbook "How to..." describes in detail the creation of graduated symbols from their simple designs to complex ones, using ArcGIS software.





# FINLAND

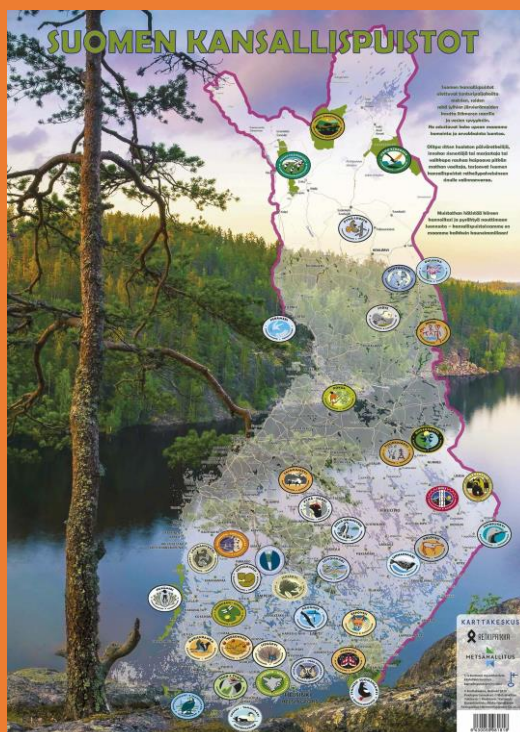
## FIN\_MP1

### National parks of Finland

Type of material	paper
Scale (if relevant)	-
Dimensions (mm)	554*730
Author(s)	Mikko Hämäläinen
Published by	Karttakeskus / Tapio Palvelut Ltd
Date of publication	10.01.2020
Language(s) of the legend	-

### Abstract/Description (in English or French; 100 words max)

This beautiful map poster presents the location of national parks in Finland. Transparent map of Finland, in top of tempting landscape photo, shows all 40 national parks with their logos. The map is implemented together with Metsähallitus (the Finnish Forest Administration) and Retkipaikka, which is the most popular outdoor community in Finland. 5% of the poster's revenue is used to support the Finnish national parks.



## FIN\_MP2

### Omakartta

Type of material	polyester, weatherproof PVC
Scale (if relevant)	-
Dimensions (mm)	700*1000
Author(s)	-
Published by	Karttakeskus / Tapio Palvelut Ltd
Date of publication	-
Language(s) of the legend	-
Abstract/Description (in English or French; 100 words max)	OmaKARTTA ( <a href="http://www.karttakauppa.fi/omakartta">www.karttakauppa.fi/omakartta</a> ) is an online web service for desktop where you can produce and order a weatherproof map with your own cropping and definition. Instead of a weatherproof map you can also choose a map board with frames. This sample OmaKARTTA product is a traditional Terrain Map (NLS data and layout) in scale 1:20.000. The map styles has been created in QGIS. The material of the sample map is polyester printing material (SEG Samba Backlit Textile) and the thicker is the PVC material (Heytex Frontlit Light Eco).



## FIN\_MP3

### Nuoksio Luukki Outdoor map

Type of material	waterproof and rip-proof paper (Tyvek)
Scale (if relevant)	1:15.000
Dimensions (mm)	700*1000
Author(s)	-
Published by	Karttakeskus / Tapio Palvelut Ltd
Date of publication	16.3.2020
Language(s) of the legend	Finnish, Swedish, English, Deutsch, Russian

**Abstract/Description (in English or French; 100 words max)**

This strong outdoor map is printed in waterproof material. Two-sided map shows the popular national park, Nuuksio, entirely. In addition to topographic information, the map shows routes (marked with symbols similar to signs in the routes) and other outdoor services as well as restaurants and accommodation. There are also ten most popular attractions with their descriptions. The map is available also as digital product for mobile devices.

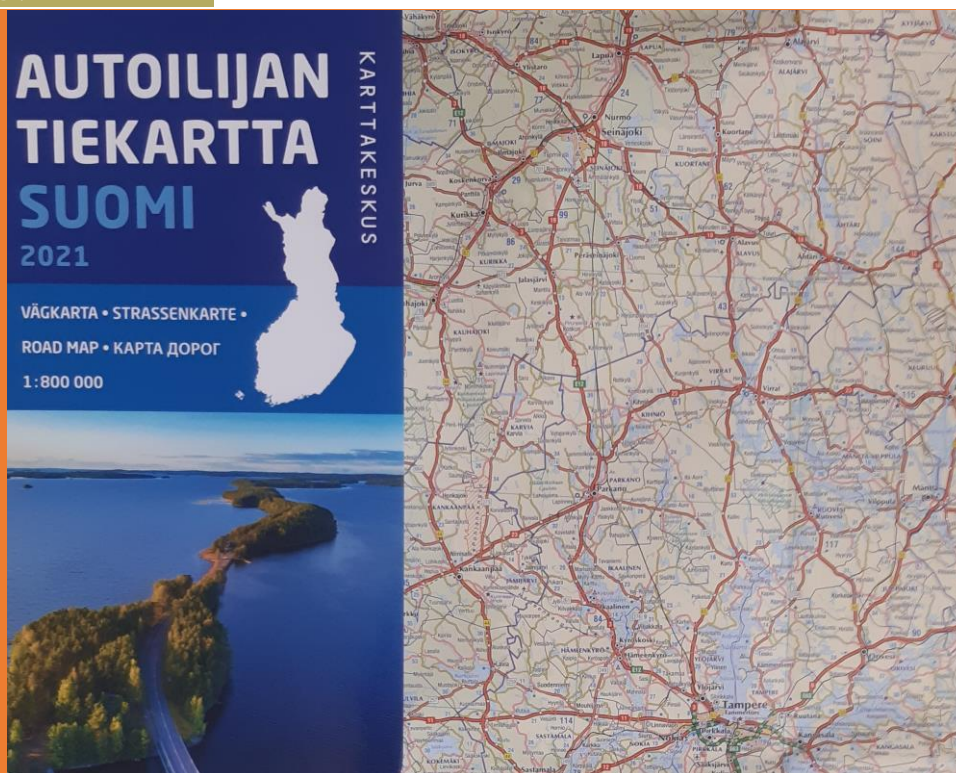


**FIN\_MP4**

**Finland Road Map 2021**

Type of material	paper
Scale (if relevant)	1:800.000
Dimensions (mm)	700*1000
Author(s)	-
Published by	Karttakeskus / Tapio Palvelut Ltd
Date of publication	20.10.2020
Language(s) of the legend	Finnish, Swedish, English, Deutsch, Russian
Abstract/Description (in English or French; 100 words max)	The most popular road map in Finland. Two-sided map is suitable for route planning for long journeys. The map includes lots of information about services and traveling: gas stations, camping areas, and for example the places for border crossing. In the skirt there are place name catalog, distance matrix and most common traffic signs.





## CHARTS ON PANELS

FIN_CP1	Nautical chart Porkkala
Type of material	paper
Scale (if relevant)	1:50.000 & 1:25.000
Dimensions (mm)	817*1116
Author(s)	-
Published by	Traficom
Date of publication	1.2.2021
Language(s) of the legend	-
Abstract/Description (in English or French; 100 words max)	For the use of seafarers and yachtsmen the Finnish Transport and Communications Agency Traficom publishes printed and electronic charts covering Finland's coastal waters and most important inland waterways. Coastal Charts, scale 1 : 50 000, intended for archipelago and coastal navigation. Corresponding Inland Waterway Charts are available of some lake districts, scale 1 : 40 000.





FIN_CP2		Aeronautical chart	
Type of material		paper	
Scale (if relevant)		1:500.000	
Dimensions (mm)		893*700	
Author(s)		-	
Published by		Karttakeskus / Tapio Palvelut Ltd	
Date of publication		22.4.2021	
Language(s) of the legend		Finnish, English	
Abstract/Description (in English or French; 100 words max)		ANC civil aeronautical chart combines the background information, e.g. roads, produced by Karttakeskus, and the aeronautical elements produced by Fintraffic Lennonvarmistus. The legend is in the back side. ANC charts are designed for visual flight navigation and as a tool for flight and navigation training.	



## ATLASES

### FIN\_AT1

### City Atlas Helsinki Espoo Vantaa

Type of material	paperback, wirebound
Number of pages	128
Dimensions (mm)	170*245
Author(s)	-
Published by	Karttakeskus / Tapio Palvelut Ltd
Date of publication	4.12.2019
Language(s) of the text	Finnish
Abstract/Description (in English or French; 100 words max)	Easy to use City Atlas covers the whole metropolitan area of Finland. Maps are in scale 1:20.000 and the atlas also includes a general map of the whole area in a scale 1:100.000. In the first pages there are lots of information about traveling and services in metropolitan area, such as gas stations, 24/7 open grocery stores, and attractions. Instructions about public transport, taxis, and leisure services are also included.



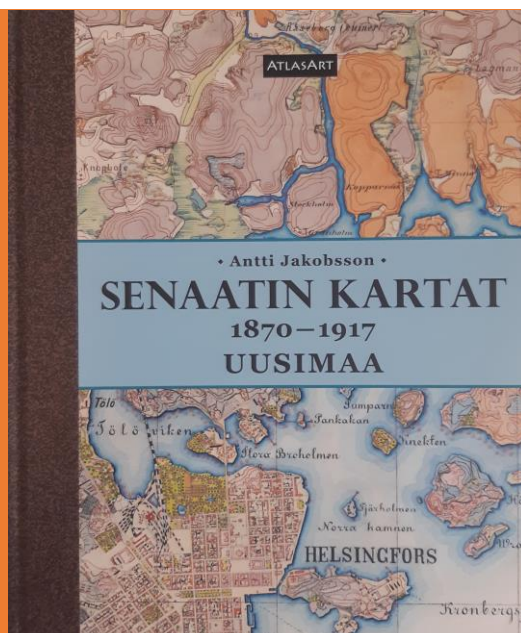
## FIN\_AT2

### Senate Maps 1870-1917 Uusimaa region

*Russian topographic mapping in Finland led by Finnish Generals Alexander Järnefelt and Axel Bonsdorff*

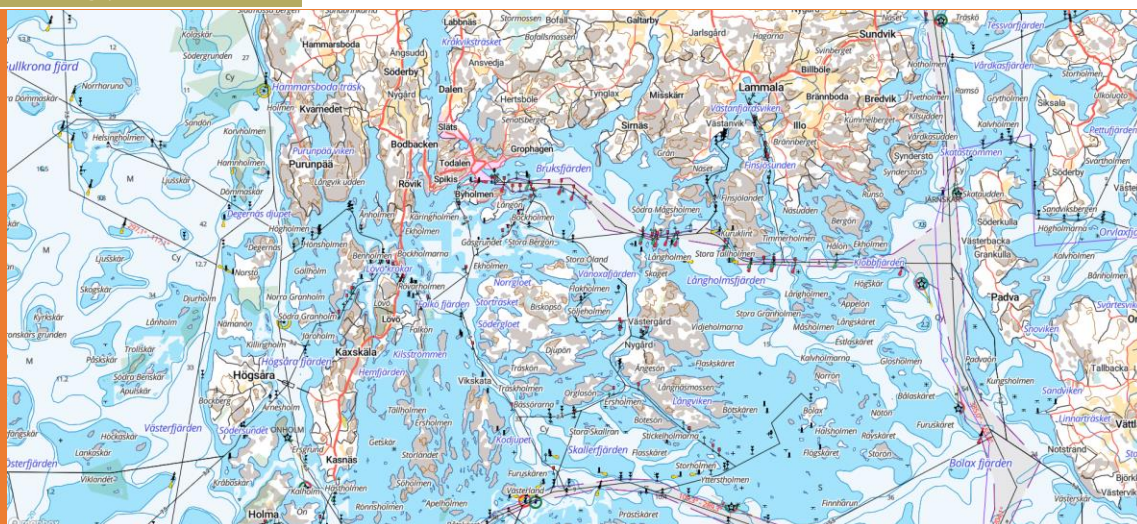
Type of material	hard cover
Number of pages	256
Dimensions (mm)	242*304
Author(s)	Antti Jakobsson
Published by	AtlasArt
Date of publication	2020
Language(s) of the text	Finnish
Abstract/Description (in English or French; 100 words max)	The Senate Maps are based on a survey launched by Russian topographers in 1870, which continued until Finland's independence in 1917. The Finnish Senate (then the government in Finland) funded the survey and was the only country to receive two photocopies of maps made. Copies were hand-coloured in Finland, place names are in Finnish or Swedish and updated until 1920s. Exceptionally the Finns led this mapping work but also led the mapping work elsewhere in Russia. This mapping covered the entire Russian border areas of Europe. The book provides first time a facsimile of these maps in the Uusimaa region.





## DIGITAL PRODUCTS

FIN_DP1	Loisto Mariner
Type	digital map application
File format (10 words)	vector tile (Mapbox GL)
Operating system	Android, iOS
License	commercial, annual fee
Author(s)	Traficom licence 2 762/1024/2011, NLS
Published by	Karttakeskus / Tapio Palvelut Ltd
Date of publication or most recent update	2019 / 2021
Scale	1:5000 – 1:1000000
Language(s) of the presentation	Finnish
Abstract/Description (in English or French; 100 words max)	Loisto Mariner is a mobile app specifically for boaters that operates on both Android and iOS operating systems. The application provides easy-to-use tools for navigation and includes high-quality vector maps of Finland's sea areas and the largest lake areas. In addition, the application includes NLS -style terrain maps of all of Finland, AIS sites, port information and weather forecasts. The application is available for download from the Google Play Market and the App Store.



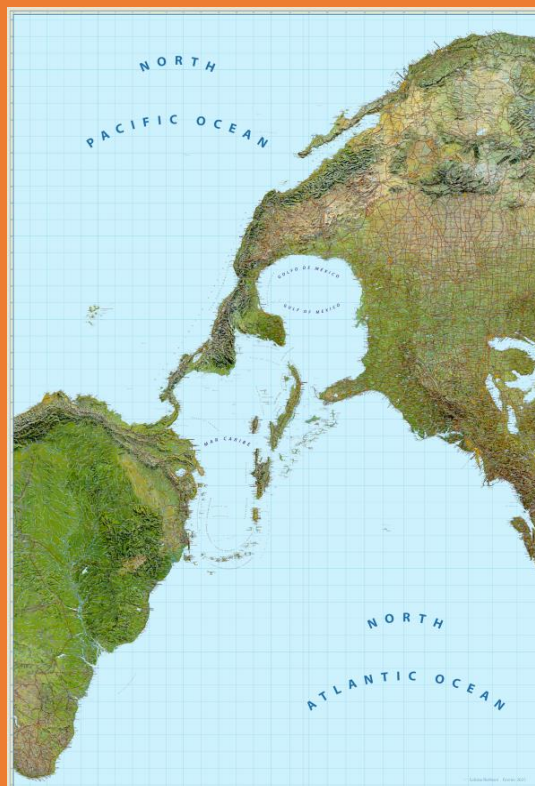
# FRANCE

## MAPS ON PANELS

### FRA\_MP1

### AMERICAS

Type of material	Printing on Vinyl
Scale (if relevant)	-
Dimensions (mm)	150 x 220 cm
Author(s)	Sabine Réthoré
Published by	Sabine Réthoré
Date of publication	10/10/2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	Cartographic drawing representing the American continent centered on the Gulf of Mexico and the Caribbean Sea. The orientation of the drawing is in the East-West direction. It is a political poetry intended to make people dream between the past and the present.

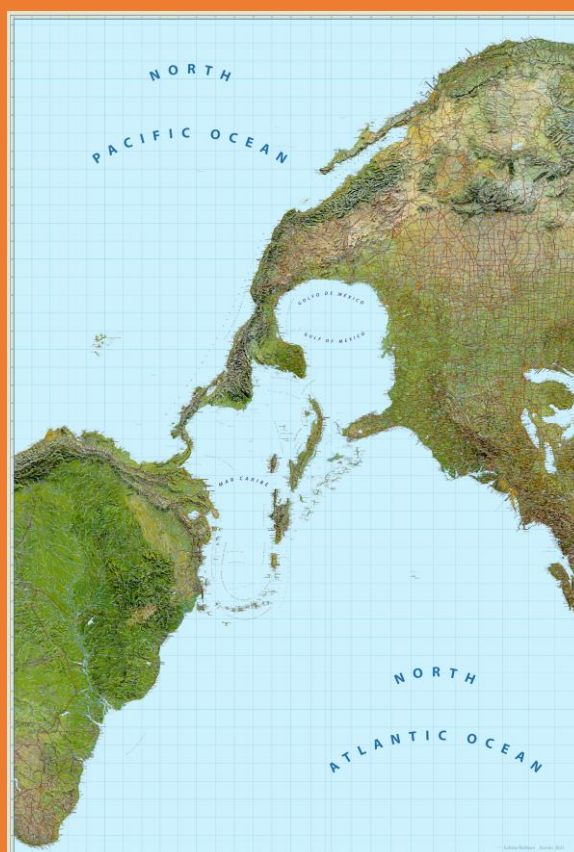




## FRA\_MP2

## AMERICAS

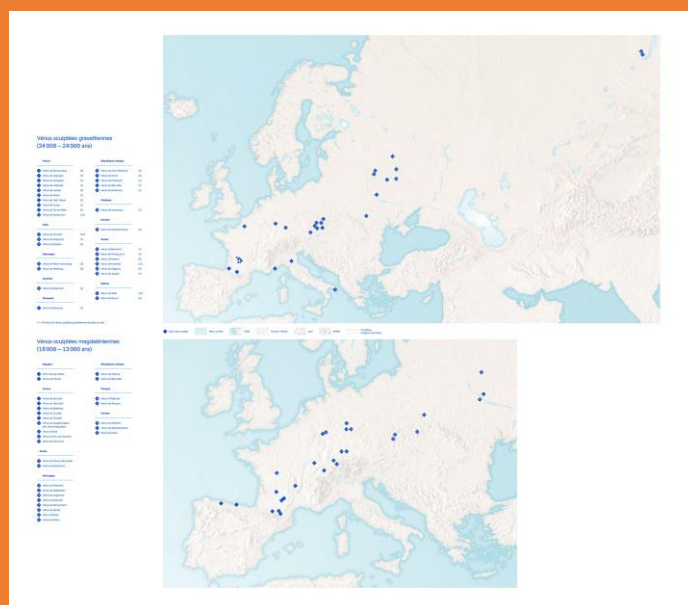
Type of material	Folded Paper
Scale (if relevant)	-
Dimensions (mm)	88 x 132 cm
Author(s)	Sabine Réthoré
Published by	Sabine Réthoré
Date of publication	10/10/2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	Cartographic drawing representing the American continent centered on the Gulf of Mexico and the Caribbean Sea. The orientation of the drawing is in the East-West direction. It is a political poetry intended to make people dream between the past and the present.



## FRA\_MP3 *Cartographie de l'europe à l'époque glaciaire, il y a entre 40 000 et 15 000 ans, pour la localisation des sites de productions artistiques du paléolithique*

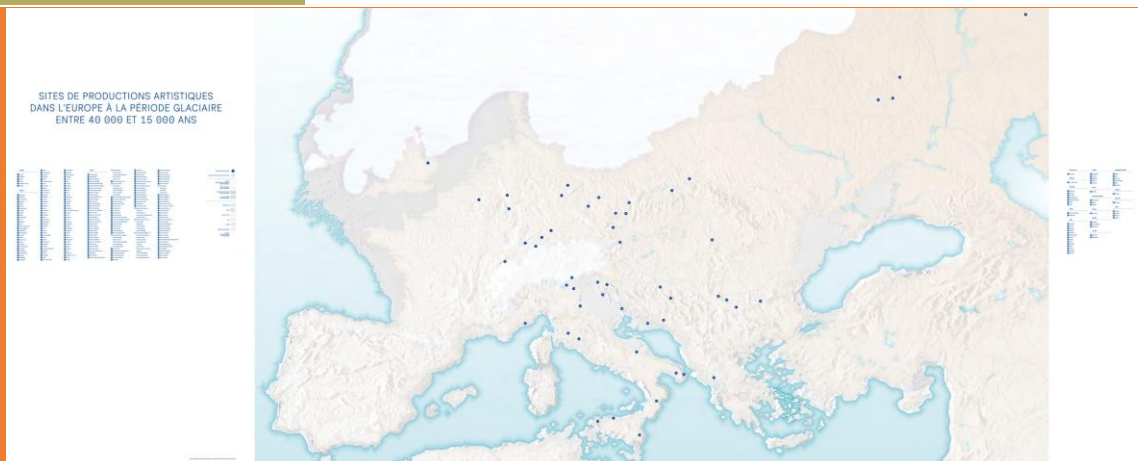
Type of material	Papier
Scale (if relevant)	Échelle approximative 1:10 000 000
Dimensions (mm)	(L 1m60 x H 1m50) Format d'édition MNHN
Author(s)	J. D. Salachas, cartographe pour MNHN

<b>Published by</b>	Musée de l'Homme, MNHN
<b>Date of publication</b>	1er Juin 2021
<b>Language(s) of the legend</b>	Français
<b>Abstract/Description (in English or French; 100 words max)</b>	Sites de production des Vénus sculptées gravettiennes (entre 34 000 et 24 000 ans) et magdaléniennes (entre 18 000 et 13 000 ans) — Cartographie de l'Europe étendue jusqu'aux sites des Vénus de Malta et de Bouret retrouvées près du Lac Baïkal, Sibérie orientale.



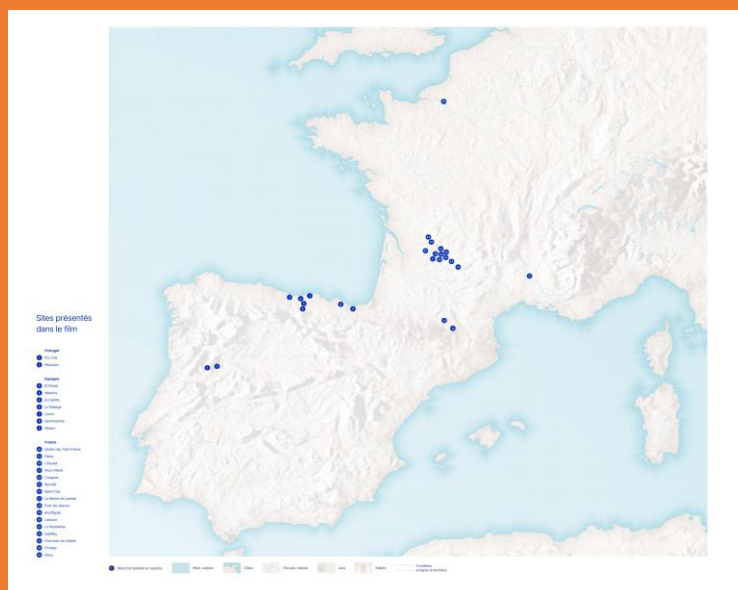
**FRA\_MP4** *Cartographie de l'europe à l'époque glaciaire, il y a entre 40 000 et 15 000 ans, pour la localisation des sites de productions artistiques du paléolithique*

<b>Type of material</b>	Papier
<b>Scale (if relevant)</b>	Échelle approximative 1:10 000 000
<b>Dimensions (mm)</b>	(L 6m10 x H 2m50) Format d'édition MNHN
<b>Author(s)</b>	J. D. Salachas, cartographe pour MNHN
<b>Published by</b>	Musée de l'Homme, MNHN
<b>Date of publication</b>	1er Juin 2021
<b>Language(s) of the legend</b>	Français
<b>Abstract/Description (in English or French; 100 words max)</b>	Extension des côtes du continent et sites de productions artistiques dans la période glaciaire entre 40 000 et 15 000 ans. Localisations des productions jusqu'aux sites de Kapova.



**FRA\_MP5** *Cartographie de l'europe à l'époque glaciaire, il y a entre 40 000 et 15 000 ans, pour la localisation des sites de productions artistiques du paléolithique*

Type of material	Papier
Scale (if relevant)	Échelle approximative 1:10 000 000
Dimensions (mm)	(L 4m10 x H 2m50) Format d'édition MNHN
Author(s)	J. D. Salachas, cartographe pour MNHN
Published by	Musée de l'Homme, MNHN
Date of publication	1er Juin 2021
Language(s) of the legend	Français
Abstract/Description (in English or French; 100 words max)	Zoom sur la France, l'Espagne et le Portugal: sites de productions artistiques dans l'Europe glaciaire entre 40 000 et 15 000 ans.



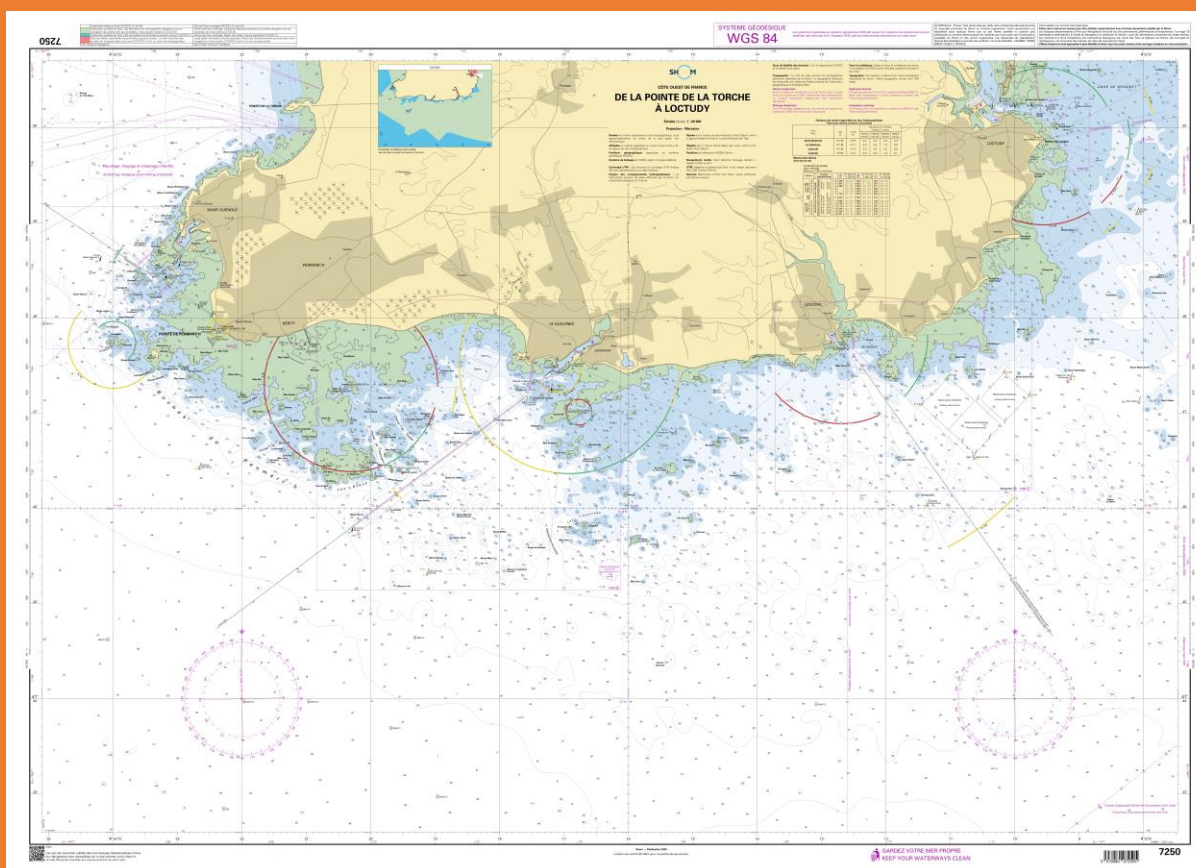


## CHARTS ON PANELS

### FRA\_CP1

### De la pointe de la Torche à Loctudy

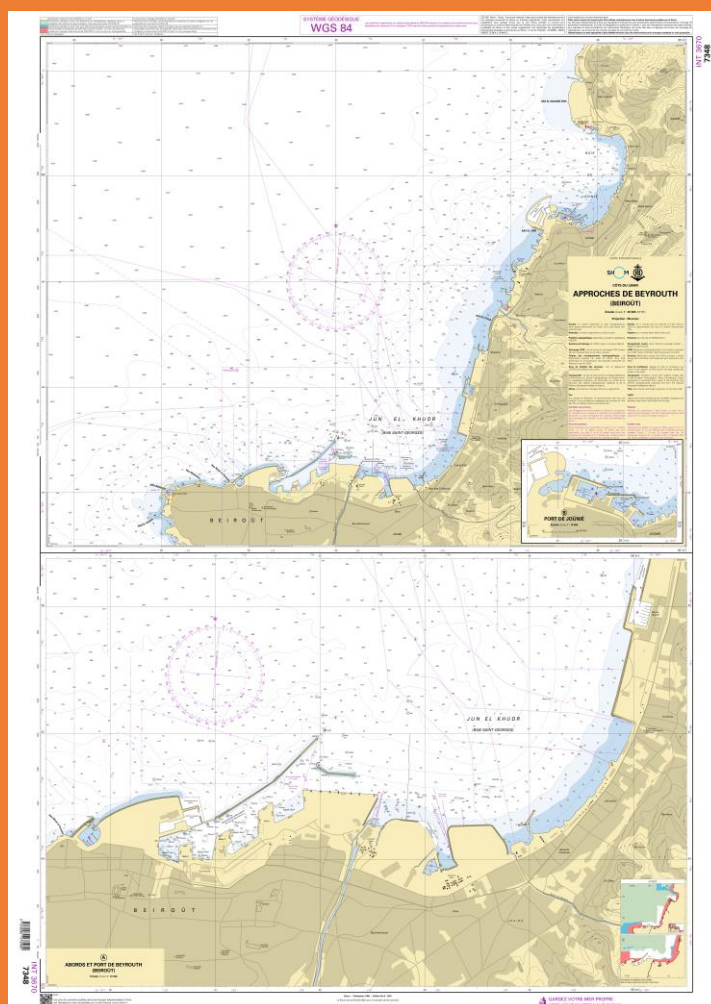
Type of material	Carte marine 7250
Scale (if relevant)	1: 20 000
Dimensions (mm)	1099,9 x 749,7
Author(s)	Shom
Published by	Shom
Date of publication	17/06/2020
Language(s) of the legend	Français et Anglais
Abstract/Description (in English or French; 100 words max)	Carte marine permettant la navigation, en Bretagne Sud, sur la côte escarpée entre la pointe de Penmarc'h et Loctudy. Remplaçant les cartes 6645 et 6646 publiées en 1976, il s'agit de la dernière carte produite dans le cadre de la refonte de la cartographie du Finistère Sud entamée en 2013, suivant les normes internationales de l'OHI (S-4).



## FRA\_CP2

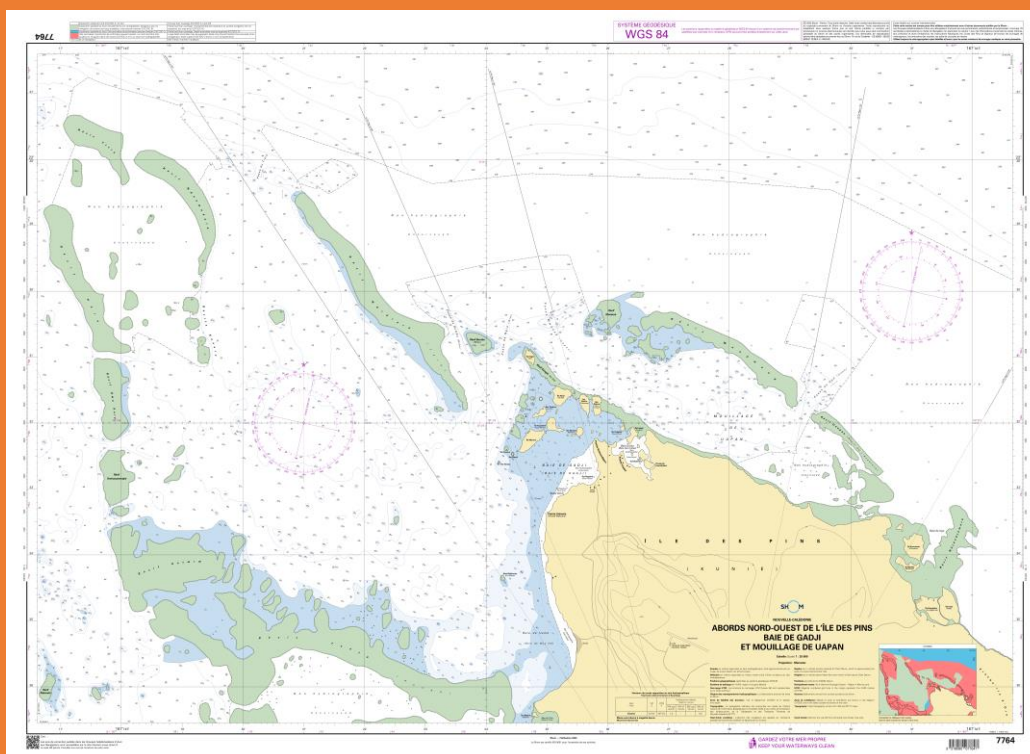
## Approches de Beyrouth

Type of material	Carte marine 7348 (INT3670)
Scale (if relevant)	1: 30 000 – 1 : 12 500
Dimensions (mm)	1100 x 750
Author(s)	Shom
Published by	Shom
Date of publication	30/06/2021
Language(s) of the legend	Français et Anglais
Abstract/Description (in English or French; 100 words max)	Présentant le port de Beyrouth, l'édition n°6 de la carte 7348 a été produite après les événements dramatiques d'août 2020. Le cratère issu de l'explosion du silo est symbolisé par une zone en blanc au niveau du quai n° 9 (appelée « zone non hydrographié »).



## FRA\_CP3 Abords Nord-Ouest de l'Île des Pins - Baie de Gadji et mouillage de Uapan

Type of material	Carte marine 7764 (INT3670)
Scale (if relevant)	1 : 25 000
Dimensions (mm)	1099,0 x 748,6
Author(s)	Shom
Published by	Shom
Date of publication	17/06/2020
Language(s) of the legend	Français et Anglais
Abstract/Description (in English or French; 100 words max)	Afin d'accompagner le développement touristique de l'Île des Pins, située au Sud-Est de la Nouvelle-Calédonie, la carte 7764 s'intègre dans un schéma cartographique à grande échelle qui permettra, à terme, aux paquebots de croiser et mouiller à proximité en toute sécurité dans un milieu corallien.



## ATLASES



## FRA\_AT1

## Atlas France Camping-Car

Type of material	Papier/Carton
Number of pages	414
Dimensions (mm)	220 x 285
Author(s)	Collectif
Published by	Michelin Éditions
Date of publication	03/2020
Language(s) of the text	Français
Abstract/Description (in English or French; 100 words max)	Atlas routier et touristique présentant la localisation des aires de service pour Camping-Cars et vans.



## DIGITAL SERVICES

## FRA\_DS1

## Portail de l'information géographique maritime et littoral du Shom

Type of service	Online data portal – Webservices
Format (10 words)	-
Software platform	-
URL web link	<a href="https://data.shom.fr/">https://data.shom.fr/</a>
License	./.
Author(s)	Shom
Published by	Shom
Date of publication or most recent update	June 2021
Scale	./.
Language(s) of the presentation	French - English



# FRANCE\_IGN

## MAPS ON PANELS

### FRI\_MP1

### La Réunion

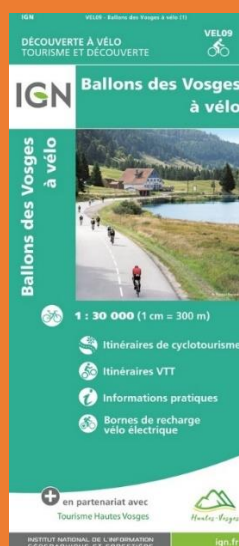
Type of material	Plastic
Scale (if relevant)	1:75000
Dimensions (mm)	1130 x 930 mm
Author(s)	IGN
Published by	IGN
Date of publication	2021
Language(s) of the legend	/
Abstract/Description (in English or French; 100 words max)	Carte topographique et touristique de l'île de la Réunion en relief.





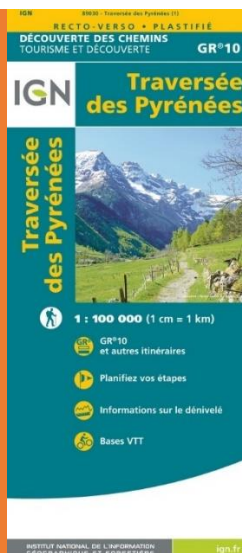
## FRI\_MP2 *Ballons des Vosges à vélo / Ballons des Vosges by bike*

Type of material	Paper
Scale (if relevant)	1:30000
Dimensions (mm)	1430 x 1000 mm
Author(s)	IGN
Published by	IGN
Date of publication	2021
Language(s) of the legend	French & English
Abstract/Description (in English or French; 100 words max)	Carte de découverte de la région des ballons des Vosges comportant les itinéraires de cyclotourisme et de VTT.



## FRI\_MP3 *Traversée des Pyrénées*

Type of material	Paper
Scale (if relevant)	1:100000
Dimensions (mm)	1430 x 500 mm
Author(s)	IGN
Published by	IGN
Date of publication	2021
Language(s) of the legend	French & English
Abstract/Description (in English or French; 100 words max)	Carte de découverte et de situation du "GR®10", le chemin de grande randonnée qui traverse le massif des Pyrénées, pour planifier ses étapes. Recto verso. Présence du profil altimétrique.



## FRI\_MP4

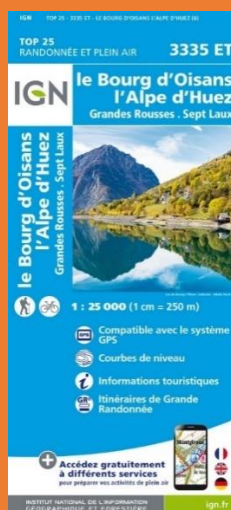
### France Sud-Est OACI

Type of material	Laminated paper
Scale (if relevant)	1:500000
Dimensions (mm)	1320 x 1000 mm
Author(s)	IGN
Published by	IGN
Date of publication	2021
Language(s) of the legend	French & English
Abstract/Description (in English or French; 100 words max)	Carte aéronautique civile pour vol à vue. Elle contient les informations aéronautiques réglementaires liées à la sécurité et aux contraintes en vol ainsi qu'un fond topographique et altimétrique simplifié de situation.



## FRI\_MP5 *Le Bourg d'Oisans, l'Alpe d'Huez, Grandes Rousses, Sept Laux*

Type of material	Laminated paper
Scale (if relevant)	1:25000
Dimensions (mm)	1210 x 490 mm
Author(s)	IGN
Published by	IGN
Date of publication	2021
Language(s) of the legend	French, English & German
Abstract/Description (in English or French; 100 words max)	Carte topographique et de randonnée pédestre autour de l'Alpe d'Huez. Plastification du support pour une meilleure résistance avec un usage en extérieur. Recto verso



## FRI\_MP6 *Panorama de la biodiversité et des espaces protégés*

Type of material	Paper
Scale (if relevant)	1 : 1 100 000
Dimensions (mm)	1320 x 1000 mm
Author(s)	IGN
Published by	IGN
Date of publication	2020
Language(s) of the legend	French
Abstract/Description (in English or French; 100 words max)	La carte représente les différents espaces protégés en France (métropole et outre-mer) ainsi que quelques espèces spécifiques des différents territoires. Elle a été réalisée en collaboration avec l'Office français de la biodiversité et le Museum national d'Histoire naturelle.





## DIGITAL PRODUCTS

### FRI\_DP1 *Edugeo – Module Minetest/Kidscode for education on natural risk*

Type	Software Minetest/Kidscode + Service (Minetest on demand)
File format (10 words)	Execute file + Minetest format delivered by service Minetest on demand
Operating system	Windows
License	-
Author(s)	IGN - EvidenceB
Published by	IGN - EvidenceB
Date of publication or most recent update	2021
Scale	/
Language(s) of the presentation	French
Abstract/Description (in English or French; 100 words max)	<p>The educational module of Minetest game in Educeo allows you to:</p> <ol style="list-style-type: none"> <li>1) Generate maps on the whole world for the Minetest video game by exploiting the geographic data representing the territory</li> <li>2) Teach about orientation in 2D and 3D space</li> <li>3) Simulate natural risks (flood, mudslide, avalanche, volcanic eruption, tornado) in order</li> </ol>

to teach on these themes and to study the prevention of these risks  
4) View these simulations in augmented reality  
Link: [https://www.youtube.com/watch?v=TM\\_nf-4Aqgc](https://www.youtube.com/watch?v=TM_nf-4Aqgc)

**ÉDUGÉO – MODULE MINETEST/KIDSCODE FOR EDUCATION ON NATURAL RISKS**

**IGN**  
INSTITUT NATIONAL  
DE L'INFORMATION  
GÉOGRAPHIQUE  
ET FORESTIÈRE

Minetest = Open source voxel game, similar to Minecraft® (hugely popular game with kids) where players can build anything (= "Digital LEGO®")

Édugéo = IGN pedagogic resources for education on geography, with different cartographic modules for teachers and schoolchildren

MINETEST/KIDSCODE = New module in Édugéo with simulations tools on natural risks

**2 PARTS**

**Service : Minetest on Demand**

**Software (PC) : Minetes/Kidscode**

3 options for 2D Visualisations:  
Minetest, Photos, Maps

Different education tools :  
• Orientation in 2D / 3D  
• Constructions / Delineations: Buildings, Dikes, Avalanche barriers, ...  
• Simulations: Floods, Avalanches, Mudslides, Volcanic eruptions, Tornadoes

Other options:  
• "Cartographer" (Mapping in 2D of simulation)  
• Mode Solo or multiusers (for collaboration)  
• Backup  
• Reply simulations  
• Teleporters  
• ...

[https://www.youtube.com/watch?v=TM\\_nf-4Aqgc](https://www.youtube.com/watch?v=TM_nf-4Aqgc)

**EXAMPLE: COUTHURES SUR GARONNE**

FEBRUARY 2021

6 m 7 m 9 m

Flood simulations in Minetest/Kidscode and visualization in Cartographer with different water heights

Comparison with express orthophotos (IGN) taken during the flood

## DIGITAL SERVICES

FRI_DS1	Géoservices
Type of service	Web services + upload services + Documentation
Format (10 words)	/
Software platform	/
URL web link	<a href="https://geoservices.ign.fr">https://geoservices.ign.fr</a>
License	-
Author(s)	Klee Group
Published by	IGN
Date of publication or most recent update	2021
Scale	/

## Language(s) of the presentation

Abstract/Description (in English or French; 100 words max)

French

Pour accompagner l'ouverture des données libres et gratuites depuis le 1er janvier 2021 au sein d'un large écosystème professionnel, l'IGN renouvelle le site Géoservices dans une démarche de simplification et d'interaction avec les communautés d'utilisateurs des Géoservices IGN :

- 1) Simplification : une vue des usages, un accès facilité et gratuit en BtoB !
- 2) Interaction : un partage d'expressions et d'informations avec les communautés !





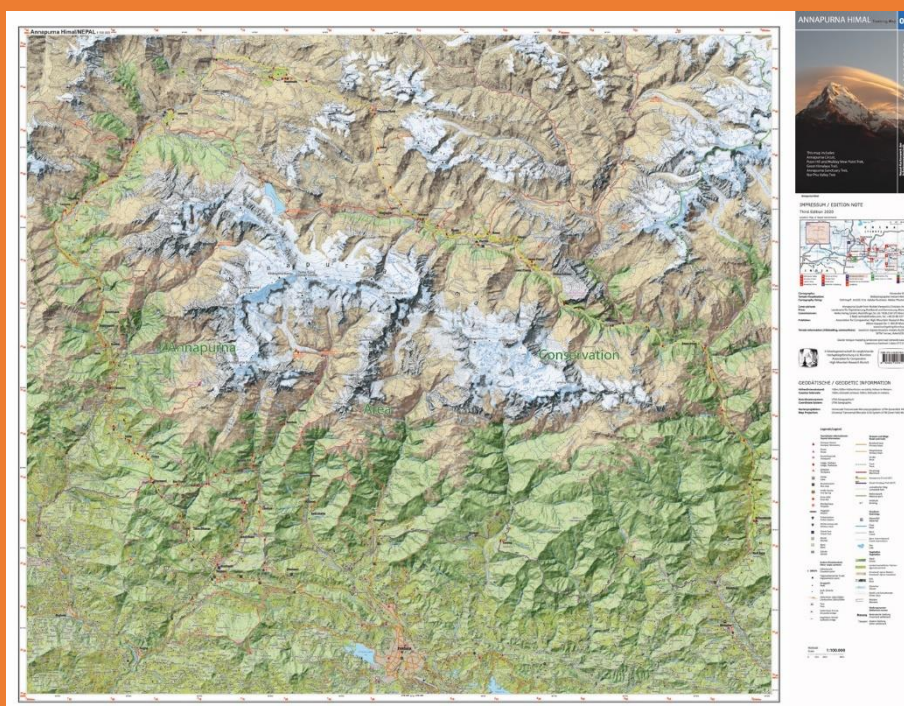
# GERMANY

## MAPS ON PANELS

### DEU\_MP1

### *Annapurna Himal 1:100.000*

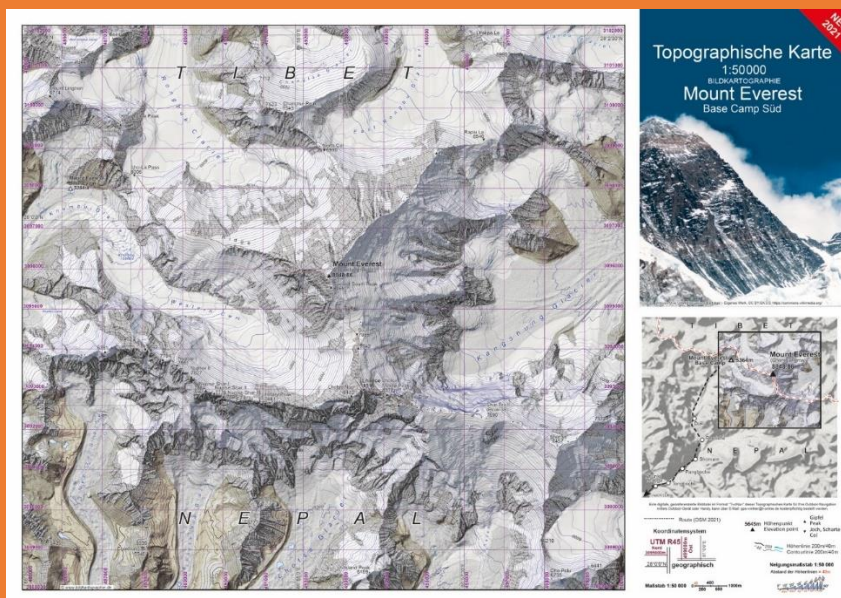
Type of material	paper
Scale (if relevant)	1:100.000
Dimensions (mm)	1150*850
Author(s)	Herbert Winkler, Alexander Klaus
Published by	Association for comparative high mountain research, Munich
Date of publication	February 2020
Language(s) of the legend	German / English
Abstract/Description (in English or French; 100 words max)	The Association for Comparative High Mountain Research located in Munich published in February 2020 a completely updated map of the Annapurna region in Nepal. The trekking map in the scale 1:100.000 contains all relevant informations for trekking tourists including Lodges, viewpoints, markets, Points of interests and many more. The main focus is on a very plastic relief representation of the map.



## DEU\_MP2

## Mount Everest 1:50.000

Type of material	Paper
Scale (if relevant)	1:50.000
Dimensions (mm)	420*295
Author(s)	Herbert Winkler, Alexander Klaus
Published by	Bildkartographie Winkler, Unterhaching
Date of publication	February 2021
Language(s) of the legend	German / English
Abstract/Description (in English or French; 100 words max)	This map depicts the immediate situation around the highest mountain on earth in an unprecedented level of detail. It is intended to inform the user about the access routes to the mountain.



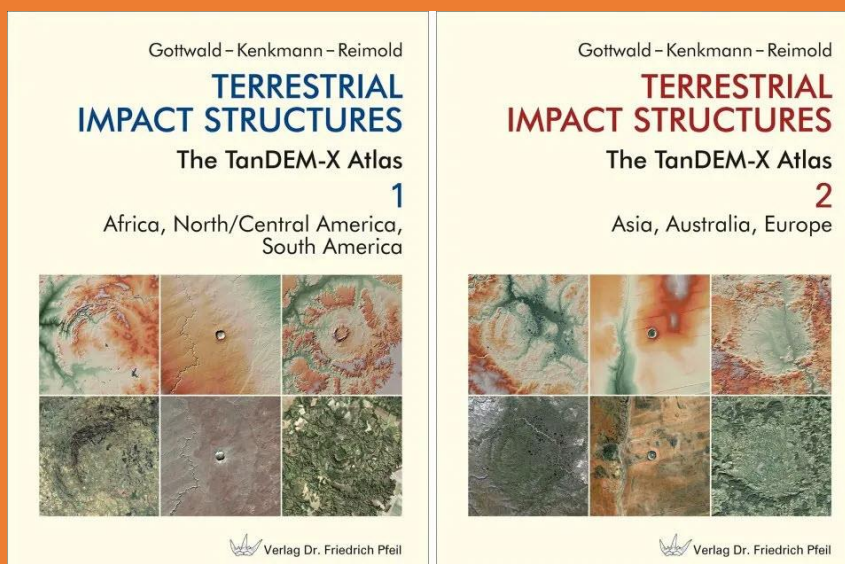
## ATLASES

## DEU\_AT1

## Terrestrial impact structures. the Tandem-X Atlas

Type of material	book, 2 volumes in slipcase
Number of pages	608 pages
Dimensions (mm)	326 × 245 mm
Author(s)	Manfred Gottwald, Thomas Kenkmann and Wolf Uwe Reimold
Published by	Verlag Dr. Friedrich Pfeil
Date of publication	December 1st, 2020
Language(s) of the text	English
Abstract/Description (in English or French; 100 words max)	The global impact crater record only represents a fraction of the bombardment that our planet has had to endure. Remote sensing methods have given us tools of mapping the Earth's surface with high precision. The German

TanDEM-X radar X-band mission, operated by the German Aerospace Center, generated the first global space-borne terrestrial digital elevation model of high resolution, based on Synthetic Aperture Radar interferometric measurements. These data were used to produce the first topographic atlas of all currently confirmed terrestrial impact structures. This book provides the basic principles of impact cratering, of radar remote sensing, and of the TanDEM-X mission.



## DIGITAL SERVICES

### DEU\_DS1 *Ornitho-Regioportal: Web-based Visualization of Bird Observation Data*

Type of service	Web map; vector tile
Format (10 words)	Bird observation connected to various map layers
URL web link	<a href="https://www.ornitho-regioportal.de/karte">https://www.ornitho-regioportal.de/karte</a>
License	protected by copyright; downloads and copies are only permitted for private, non-commercial use
Author(s)	Johannes Wahl, Christopher König (both: Dachverband Deutscher Avifaunisten), Jana Moser, Tom Hoyer, Sebastian Geidel (all: Leibniz Institute for Regional Geography), Stephan Schwan, Julia Moritz (both: Leibniz Institute for Knowledge Media)
Published by	Dachverband Deutscher Avifaunisten (DDA) e.V.
Date of publication or most recent update	October 2020
Language(s) of the presentation	German



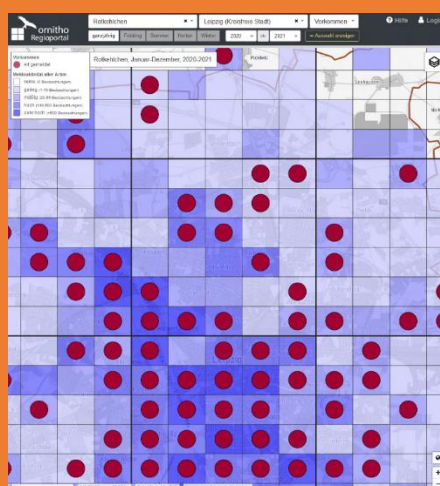
### Abstract/Description (in English or French; 100 words max)

The ornitho-Regioportal visualizes bird observation data for Germany. The database contains around 50 million entries (2011–2020), is continuously updated and based on voluntary observations by citizen scientists. In keeping with conservation interests and previous mapreading experiences of the ornithological community, the data is presented in a grid-based format.

The portal aims at:

- presenting observation data on interactive web maps, which makes entries visible "on one's own doorstep" in order to increase the motivation for participation
- improving interpretation of necessarily incomplete data by adding a layer for the reporting activity

The development followed a citizen science approach done in close cooperation of project partners Leibniz Institute for Regional Geography, Dachverband Deutscher and Leibniz Institute for Knowledge Media.

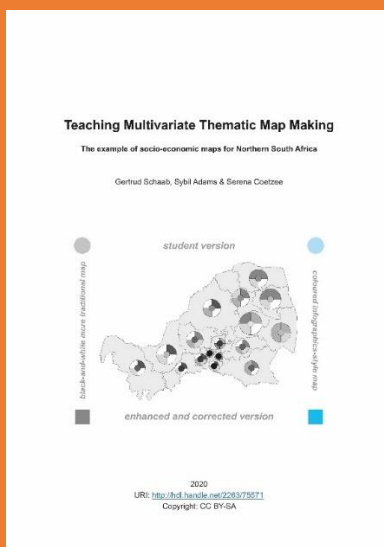


## EDUCATIONAL PRODUCTS

### DEU\_EP1 Teaching Multivariate Thematic Map Making: the Example of Socio-economic Maps for Northern South Africa

Author(s)	Gertrud Schaab, Sybil Adams & Serena Coetzee
Type	Map collection (prepared as 1 pdf-file for print-out)
Dimensions (mm)	21.0 cm by 29.7 cm (A4 Portrait)
Published by	University of Pretoria (repository URI: <a href="http://hdl.handle.net/2263/75571">http://hdl.handle.net/2263/75571</a> )
Date of publication	2020
Language(s) of the product	English
Abstract/Description (in English or French; 100 words max)	This collection of 28 maps originates from a thematic cartography course presented at the University of Pretoria.

Seven students each prepared two A4 maps based on a different set of variables: a black-and-white map following cartographic principles and rules, and a coloured map with infographics design elements. Placing the student maps next to the same maps enhanced by experienced cartographers, they are a teaching tool to demonstrate the impact of correctly applied cartographic representation methods, the power of thematic maps to reveal geographic patterns and relations, and that diversity of visualization options matters when telling a story with a map.



# GERMANY\_BKG

## MAPS ON PANELS

### DEB\_MP1

### General topographic map of Germany 1:750.000

Type of material	Map printing paper semi-matte 150 g/m <sup>2</sup> , Aluminum hanging bar along top and bottom map frame
Scale (if relevant)	1:750.000
Dimensions (mm)	1370 x 960 mm
Author(s)	BKG Federal Agency for Cartography and Geodesy
Published by	BKG Federal Agency for Cartography and Geodesy
Date of publication	2020/2021
Language(s) of the legend	German, English
Abstract/Description (in English or French; 100 words max)	This general topographic wall map of Germany (and parts of adjacent countries) shows topographic elements such as streets, railways, settlements, rivers and lakes, administrative borders and landscape features. Elevation points distributed all over the map joined by an additional overlay of hillshading and a colored hypsometric layer give a good impression of the underlying relief. All wall maps by the BKG are printed on semi-matte map printing paper to provide great color quality while not having any reflections. Aluminum bars are mounted on top and bottom map frames for convenient installation on display holders or walls.





## DEB\_MP2

## Administrative map of Germany 1:750.000

Type of material	Map Printing Paper semi-matte 150 g/m <sup>2</sup> , Aluminum hanging bar along top and bottom map frame
Scale (if relevant)	1:750.000
Dimensions (mm)	1370 x 960 mm
Author(s)	BKG Federal Agency for Cartography and Geodesy
Published by	BKG Federal Agency for Cartography and Geodesy
Date of publication	2020/2021
Language(s) of the legend	German, English
Abstract/Description (in English or French; 100 words max)	This wall map shows the federal administration of Germany. Federal states are highlighted with different colors. Graded colors show administrative districts and counties within the states. Different point features also highlight administrative city centers. For better orientation major roads as well as rivers and lakes are shown in the background. All wall maps by the BKG are printed on semi-matte map printing paper to provide great color quality while not having any reflections. Aluminum bars are mounted on top and bottom map frames for convenient installation on display holders or walls.



## DEB\_MP3

## Landscape map of Germany 1:750.000

Type of material	Map Printing Paper semi-matte 150 g/m <sup>2</sup> , Aluminum hanging bar along top and bottom map frame
Scale (if relevant)	1:750.000
Dimensions (mm)	1370 x 960 mm (L x W)
Author(s)	BKG Federal Agency for Cartography and Geodesy
Published by	BKG

	Federal Agency for Cartography and Geodesy
Date of publication	2020/2021
Language(s) of the legend	German
Abstract/Description (in English or French; 100 words max)	This wall map focusses on Germany's landscape features. Each feature is represented with its boundary and name. Boundaries are further classified into specific types, e.g. historical or economical regions, or even landscapes with unclear boundaries. General topographic map elements have reduced colors as they should only be in the background giving a better orientation. All wall maps by the BKG are printed on semi-matte map printing paper to provide great color quality while not having any reflections. Aluminum bars are mounted on top and bottom map frames for convenient installation on display holders or walls.



<b>DEB_MP4</b>	<b>General topographic map of Germany (North and South) 1:500.000</b>
Type of material	Map Printing Paper satin-finished 120 g/m²
Scale (if relevant)	1:500.000
Dimensions (mm)	255 x 112 mm (folded), 1020 x 896 mm (unfolded) (L x W)
Author(s)	BKG Federal Agency for Cartography and Geodesy
Published by	BKG Federal Agency for Cartography and Geodesy
Date of publication	2019
Language(s) of the legend	German, English, French
Abstract/Description (in English or French; 100 words max)	These general topographic folding maps of Germany show topographic elements such as streets, railways, settlements, rivers and lakes, administrative borders and landscape features. The map is printed on both sides of the paper. An easy folding mechanism leads the user from the front to back side without losing orientation. The

mechanism also works vice versa. An additional map quiz offers the user a hands-on experience on how to use and read the map. Due to the scale there is a North and a South version of the map.



## DEB\_MP5

## Regional maps of Germany 1:200.000

Type of material	Map Printing Paper satin-finished 120 g/m <sup>2</sup>
Scale (if relevant)	1:200.000
Dimensions (mm)	242,5 x 108 mm (folded), 485 x 864 mm / 1080 mm (unfolded) (L x W)
Author(s)	BKG Federal Agency for Cartography and Geodesy
Published by	BKG Federal Agency for Cartography and Geodesy
Date of publication	2019 - 2021
Language(s) of the legend	German, English
Abstract/Description (in English or French; 100 words max)	The regional maps highlight selected regions within Germany that are of major touristic significance. As the map is printed on both sides the front page usually shows a topographic map of the region. Newer map versions also include selected touristic sights. The back pages are made up of a collection of satellite or aerial images of the most prominent city or area within the given region. Additional close-up view images and touristic sights complete the map. All regional maps are made in cooperation with the particular federal state authority. As of today there are seven regions available: Leipzig-Halle, Berlin, Stuttgart, Rhein-Main, München, Hamburg, Ostfriesland.





## DEB\_MP6

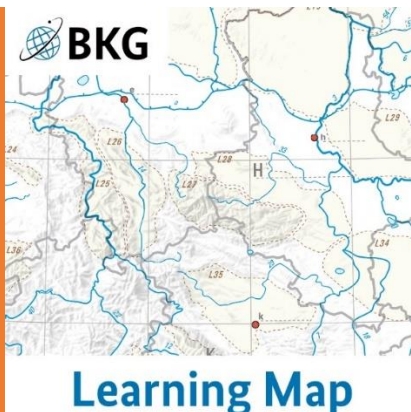
*Maps of Germany 1 : 2 Mio., Map of the World 1 : 72 Mio.,  
Map of Europe 1 : 10 Mio.*

Type of material	Map Printing Paper satin-finished 120 g/m <sup>2</sup>
Scale (if relevant)	1:2 Mio. (Germany), 1:10 Mio. (Europe), 1:72 Mio. (World)
Dimensions (mm)	297 x 210 mm, DIN A4 (folded), 594 x 420 mm DIN A2 (unfolded) (L x W)
Author(s)	BKG Federal Agency for Cartography and Geodesy
Published by	BKG Federal Agency for Cartography and Geodesy
Date of publication	2020
Language(s) of the legend	German
Abstract/Description (in English or French; 100 words max)	<p>This map series presents various maps of Germany, Europe and the world.</p> <p>As for the Germany maps there are four different kinds available: topographic, administrative, landscape and physical map. Europe and the world both come as political maps. Unfolded the maps measure a size of 594 x 420 mm which fits the DIN A2 format. The maps can be folded to DIN A4. By default the paper is printed on both sides with map combinations as follows:</p> <p>Germany Topographic – Germany Administrative Germany Landscapes – Germany Physical Europe – Germany Administrative World – Germany Administrative</p>



## EDUCATIONAL PRODUCTS

<b>DEB_EP1</b>	<b><i>Learning map of Germany 1:2 Mio.</i></b>
<b>Author(s)</b>	BKG Federal Agency for Cartography and Geodesy
<b>Type</b>	Paper Map
<b>Dimensions (mm)</b>	297 x 210 mm (folded), 594 x 420 mm (unfolded) (L x W)
<b>Published by</b>	BKG Federal Agency for Cartography and Geodesy
<b>Date of publication</b>	2020
<b>Language(s) of the product</b>	German
<b>Abstract/Description (in English or French; 100 words max)</b>	A blank outline map of Germany showing only a few topographic elements like borders, rivers, lakes and points for larger cities. Students can fill in the missing feature names to test their knowledge of Germany's geography. Not all of that, the map can also be colored to create a landscape or administrative map. If needed, all solutions to the missing map names can be looked up along the map frame. The unfolded DIN A2 paper format gives students enough space to work on the map. Folded to DIN A4 it can easily be stored in common schoolbags.



## DEB\_EP2

### Mini-map of Germany 1:2.5 Mio.

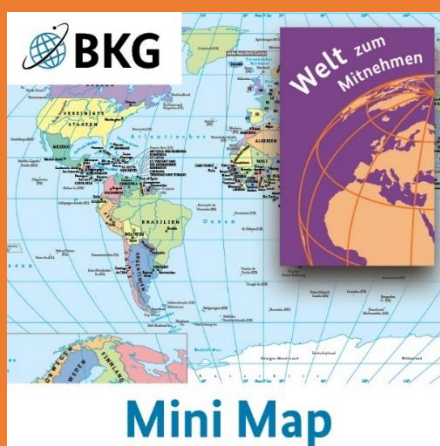
Author(s)	BKG Federal Agency for Cartography and Geodesy
Type	Paper Map
Dimensions (mm)	85 x 55 mm (folded), 400 x 300 mm (unfolded) (L x W)
Published by	BKG Federal Agency for Cartography and Geodesy
Date of publication	2020
Language(s) of the product	German
Abstract/Description (in English or French; 100 words max)	<p>“Deutschland zum Mitnehmen” which means “Germany to go” – a complete general topographic map of Germany folded to just the size of a credit card. With just one little pull on one paper edge the map swings out to its handy full size of 400 x 300 mm, which is approximately DIN A3 format.</p> <p>This map series also features the following: “Germany to go” as an administrative map, “Europe to go” and the “World to go”, both as political maps. Upon request all mini maps can also be provided in larger amounts, e.g. for a whole school class or age groups.</p>



## DEB\_EP3

### Mini-map of the World 1:100 Mio.

Author(s)	BKG Federal Agency for Cartography and Geodesy
Type	Paper Map
Dimensions (mm)	85 x 55 mm (folded), 400 x 300 mm (unfolded) (L x W)
Published by	BKG Federal Agency for Cartography and Geodesy
Date of publication	2020
Language(s) of the product	German
Abstract/Description (in English or French; 100 words max)	"Welt zum Mitnehmen" which means "The world to go" – a complete political map of the world folded to just the size of a credit card. With just one little pull on one paper edge the map swings out to its handy full size of 400 x 300 mm, which is approximately DIN A3 format. This map series also features the following: "Germany to go" as general topographic or administrative maps or "Europe to go" as a political map. Upon request all mini maps can also be provided in larger amounts, e.g. for a whole school class or age groups.



## DIGITAL SERVICES

## DEB\_DS1

### Open Maps For Europe

Type of service	Online gateway providing access to pan European open data
Format (10 words)	Data available as either downloads or services, please see website
Software platform	Website
URL web link	<a href="http://www.mapsforeurope.org">www.mapsforeurope.org</a>
License	EuroGeographics Open Data Licence
Author(s)	EuroGeographics and it's members, the National Mapping, Cadastre and Land Registry Authorities in Europe



<b>Published by</b>	EuroGeographics
<b>Date of publication or most recent update</b>	Website first published September 2021; Dataset publication dates: EuroGlobalMap October 2020 EuroRegionalMap April 2021 EuroDEM April 2008 Pan European Imagery 2018 Gazetteer April 2021
<b>Scale</b>	EuroGlobalMap 1:1,000,000 EuroRegionalMap 1:250,000 EuroDEM 1:100,000 / 60m Pan European Imagery 10m
<b>Language(s) of the presentation</b>	English
<b>Abstract/Description (in English or French; 100 words max)</b>	Open Maps for Europe will provide easy access to pan-European open data. The online gateway will deliver free to use maps created using official geospatial and land information from more than 40 countries. The project, which is co-financed by the Connecting Europe Facility of the European Union, is coordinated by EuroGeographics, the voice of European National Mapping, Cadastral and Land Registration Authorities, in partnership with the National Geographic Institute (NGI) Belgium. The open data will include topographic data, a digital elevation model, imagery, a cadastral index map, and a regional gazetteer with the first maps available in Autumn 2021. <a href="https://bit.ly/OpenMapsForEuropeProject">https://bit.ly/OpenMapsForEuropeProject</a>



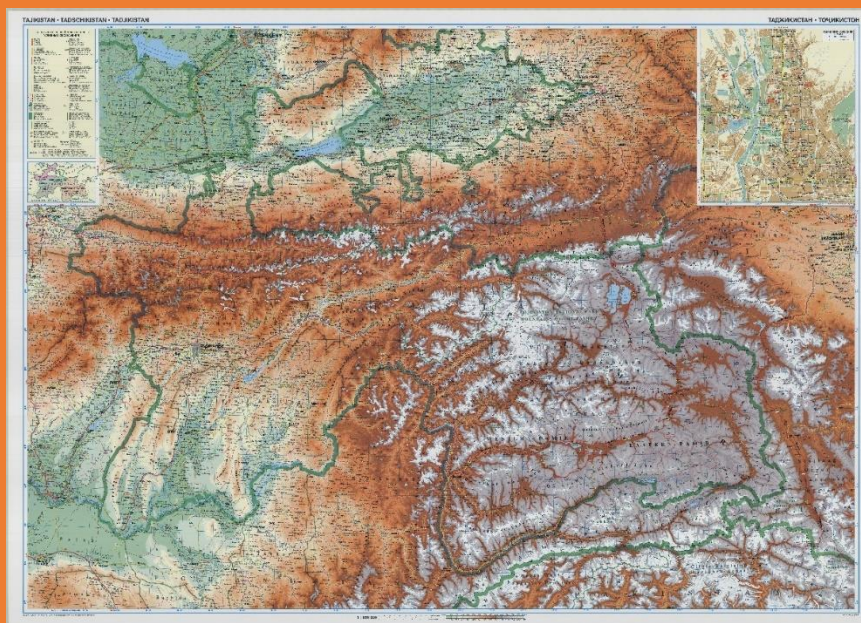
# HUNGARY

## MAPS ON PANELS

### HUN\_MP1

### TAJIKISTAN Geographical Map / The Pamirs

Type of material	Paper
Scale (if relevant)	1: 650 000
Dimensions (mm)	1250 mm x 880 mm
Author(s)	Gizella Bassa & GiziMap
Published by	GiziMap
Date of publication	2020
Language(s) of the legend	English, German, French, Italian, Russian
Abstract/Description (in English or French; 100 words max)	Tajikistan is an independent country since 1991. It is a paradise for walkers and mountaineers, who just like to be in wild and beautiful places. The Pamir Highway is one of the World's best drive. The highest peak of Tajikistan is Ismail Samani (Ismoil Somoni) Peak (7495 m). The biggest glacier is Fedchenko glacier (length is 77 km). The relief on the map was represented with elevation tints and authors worked out a colourful representation for the mountains. The ancient Penjikent is the Pompei of Central Asia (World Heritage Site). We hope this new map help to know better this wonderful part of the World.

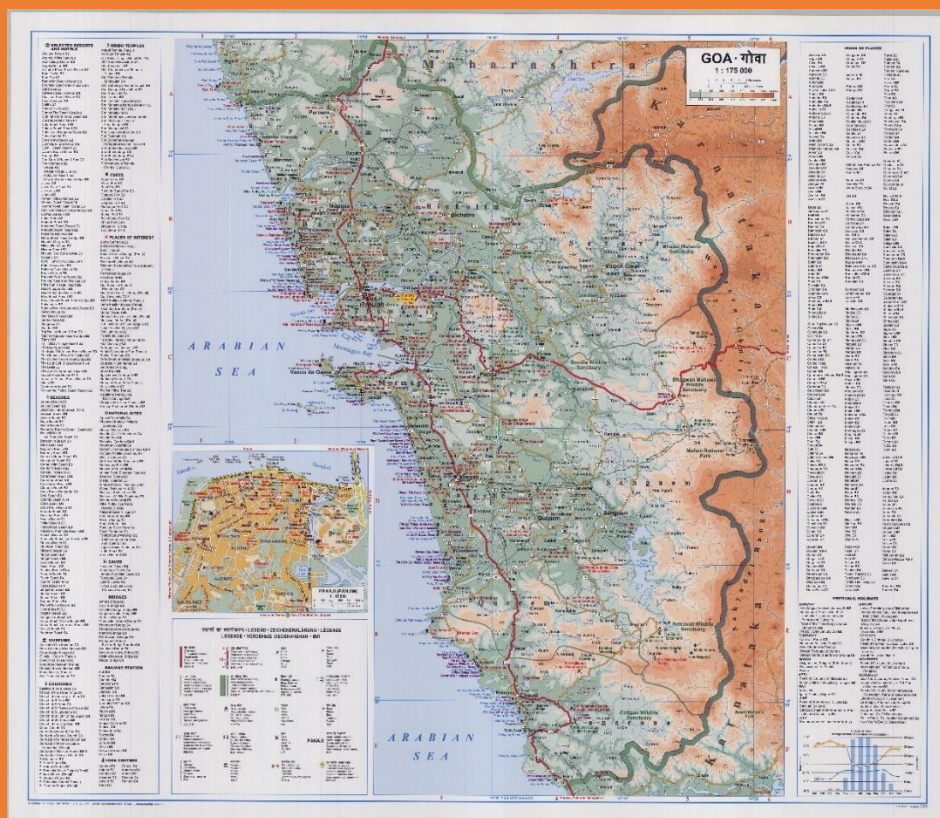




## HUN\_MP2

## GOA Road Map

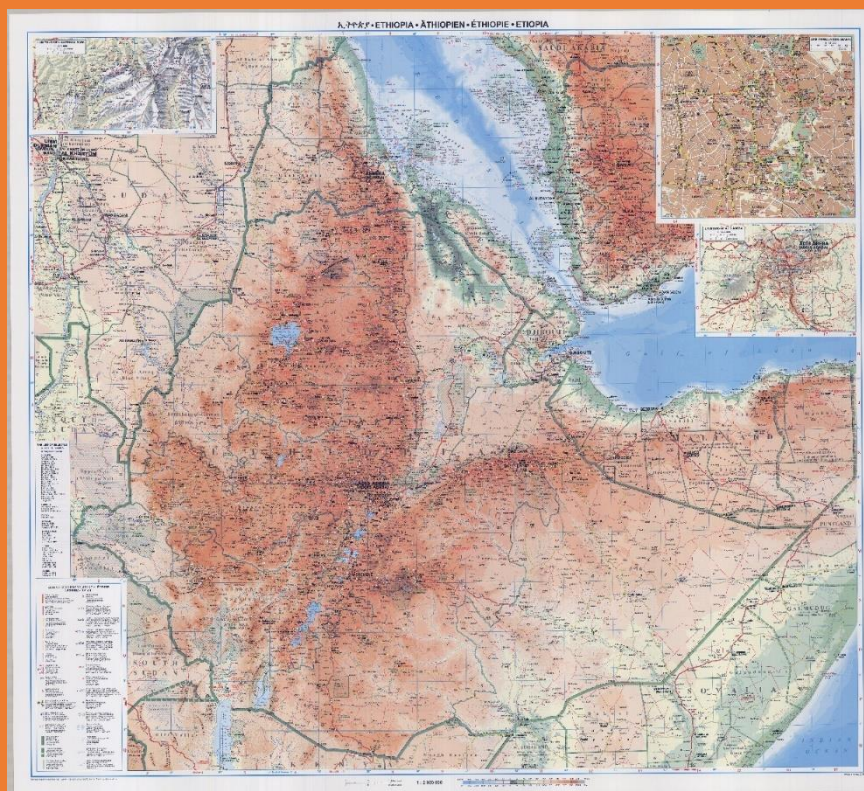
Type of material	Paper
Scale (if relevant)	1:175 000
Dimensions (mm)	720 mm x 620 mm
Author(s)	Gizella Bassa & GiziMap
Published by	GiziMap
Date of publication	2020
Language(s) of the legend	Hindu, English, German, French, Italian, Russian, Chinese
Abstract/Description (in English or French; 100 words max)	Goa is India's pocket sized paradise and an excellent place for holidays. It is located south from Mumbai. Goa is a one big beach resort, but the central region has many historical and cultural places. 1961 was the end of 450 years Portuguese occupation. We made this map for tourists to help for planning what to see in Goa. Besides the index of places you can find list of selected resorts, beaches, Hindu temples, forts, natural sites, caves, museums, yoga centres, etc. Relief was represented with elevation tints. Inset map: Panaji city centre 1 : 15 000



## HUN\_MP3

## ETHIOPIA Geographical Map

Type of material	Paper
Scale (if relevant)	1: 2 000 000
Dimensions (mm)	980 mm x 880 mm
Author(s)	Gizella Bassa & GiziMap
Published by	GiziMap
Date of publication	2019
Language(s) of the legend	English, German, French, Italian, Amharic
Abstract/Description (in English or French; 100 words max)	Ethiopia has one of the most physically and biologically diverse places in the World. Inhabitants speak more than 80 languages. The writing, edition and correct spelling of geographic names was a hard work for the cartographers, who participated in the making of this map, e.g. they added the name of largest cities in amharic as well, because it is useful for the communication with local people. Relief was represented on the map with elevation tints. Inset maps: Addis Ababa 1 : 25 000, Environs of Addis Ababa, 1 : 275 000 Simien National Park 1 : 275 000





## HUN\_MP4

## Trans-Siberian Railway Map

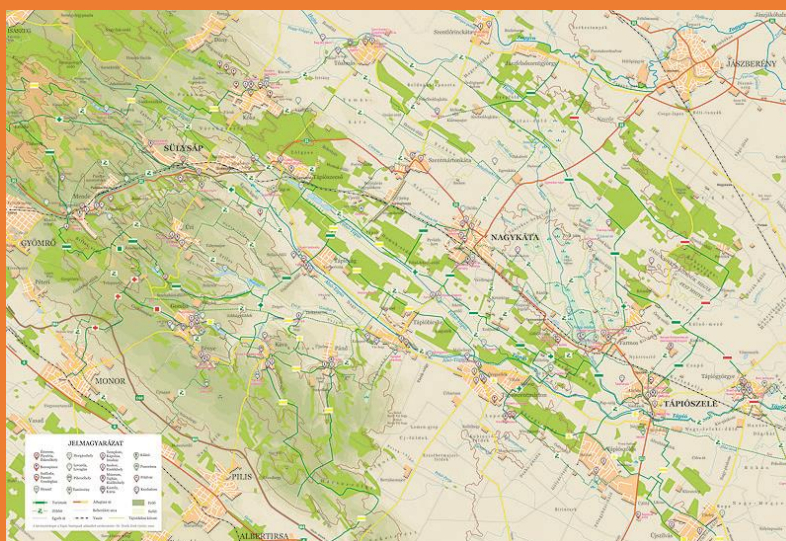
Type of material	Paper
Scale (if relevant)	1 : 12 000 000
Dimensions (mm)	960 x 680 mm
Author(s)	Gizella Bassa & GiziMap
Published by	GiziMap
Date of publication	2020
Language(s) of the legend	English, German, Russian
Abstract/Description (in English or French; 100 words max)	The main content of this map are the railway routes: Trans-Siberian, Trans-Mongolian, Trans-Manchurian, Baikal-Amur Mainline (BAM) and Amuro-Yakutsk Mainline (AyaM). The distance of the railway line is 9288 km from Moscow to Vladivostok (the longest railway on the world) and 7865 km from Moscow to Beijing. Names of settlements are written in English and Russian. The main points of interest in cities and villages are indicated in red on the map. This may help to plan your stops in interesting places. The relief is represented by elevation tints. The index of railway stations is in English. Inset map: Lake Baikal 1 : 3 000 000.



## HUN\_MP5

## Tápió Nature Park

Type of material	Paper
Scale (if relevant)	c. 1: 30 000
Dimensions (mm)	1264 mm x 860 mm
Author(s)	Dr. Zsolt G. Török
Published by	Tápió-vidék Természeti Értékeiért Közalapítvány / Tápió Foundation
Date of publication	2021
Language(s) of the legend	Hungarian
Abstract/Description (in English or French; 100 words max)	The map represents the Tápió Nature Park (established in 2019) in Central Hungary on outdoor display boards, placed at prominent places in the cooperating 18 settlements. The graphic representation emphasizes both a remarkable mosaic of the natural environment and a wide range of cultural heritage sites and services. It functions as a poster-size overview of the landscape and serves as a promotional medium for the development of soft tourism in the neighbourhood of Budapest, Hungary.



## HUN\_MP6

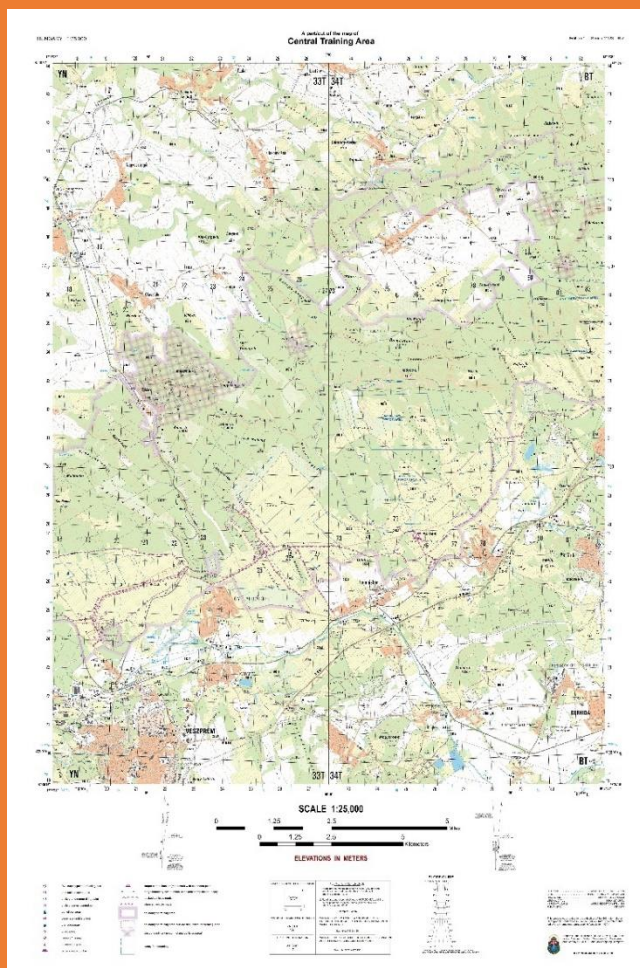
## Central Training Area (CTA) Map of Hungary

Type of material	Paper
Scale (if relevant)	1:25 000
Dimensions (mm)	2032 mm x 1168,4 mm
Author(s)	Geoinformation Service of the Hungarian Defence Forces (in short: GEOS HDF)
Published by	GEOS HDF
Date of publication	2021
Language(s) of the legend	English



**Abstract/Description**  
(in English or French;  
100 words max)

CTA map is a thematic map based on a GIS database created by semi-automated cartographic methods. The thematic of the map answers the requirements stated in NATO STANAG documents.

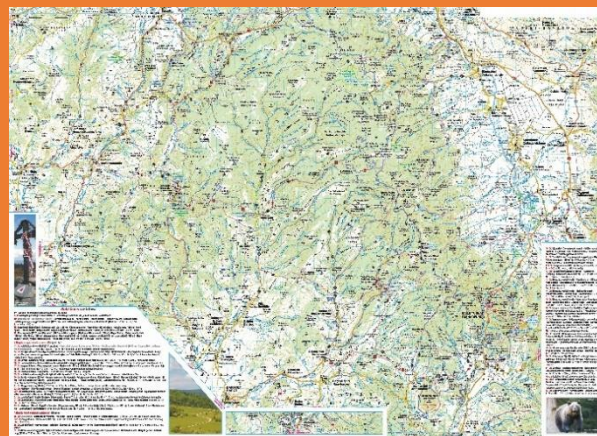
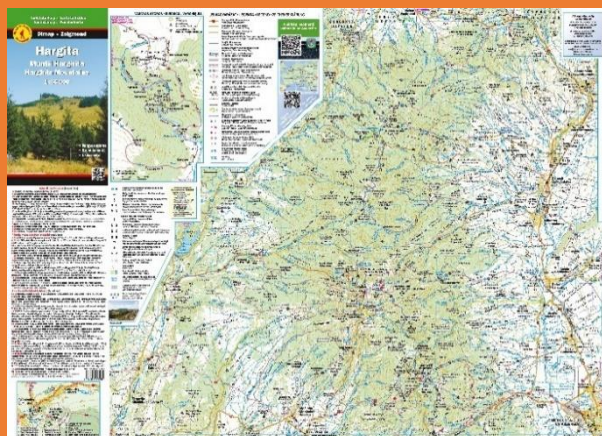


## HUN\_MP7

## Harghita Mountains

Type of material	Paper
Scale (if relevant)	1: 65 000
Dimensions (mm)	680 mm x 490 mm
Author(s)	Zsigmond Enikő, Xantus Juliánna, Xantus László (Miercurea Ciuc - Romania) Fodor Andrea, Kováts Zsolt, Berényi Dániel (Budapest - Hungary)
Published by	DIMAP
Date of publication	2019
Language(s) of the legend	Hungarian, Romanian, English, German
Abstract/Description (in English or French; 100 words max)	About DIMAP: we make and publish a series of tourist maps of Transylvania (Romania) in cooperation with local

colleagues since 1990. This area is a very diversified and a bit mysterious region of Europe and at least one million Hungarian people live there. This fact is important for us. We present the various lands not just for tourists, but also to demonstrate our cultural heritage for instance with detailed appellation by Hungarian language. These – almost forgotten – names of hills/streams/lanes mostly cannot be readable on other current printed maps or map applications.

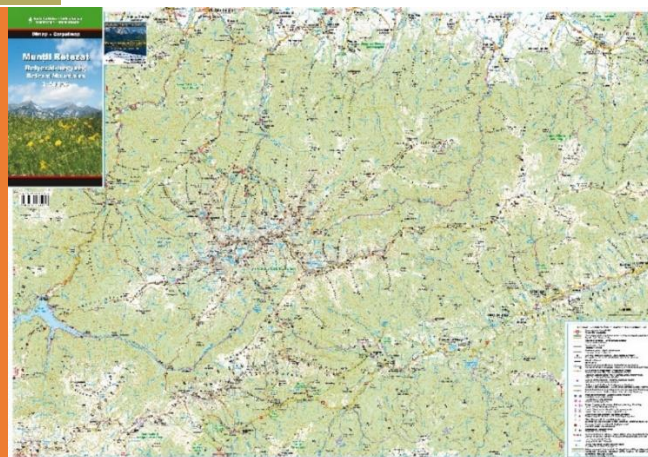


## HUN\_MP8

### Retezat Mountains

Type of material	Paper
Scale (if relevant)	1: 50 000
Dimensions (mm)	805 mm x 560 mm
Author(s)	Jancsik Péter (Cluj - Romania), Fodor Andrea, Kováts Zsolt (Budapest – Hungary)
Published by	DIMAP
Date of publication	2020
Language(s) of the legend	Hungarian, Romanian, English, German
Abstract/Description (in English or French; 100 words max)	DIMAP makes and publishes a series of tourist maps of Transylvania (Romania) in cooperation with local colleagues since 1990. Perhaps the Retezat Mountains is the most beautiful and intact region of the Carpathian Mountains, with almost a hundred glacial lakes in the summit area. The map sheet presents the area of the National Park and the neighbouring lands. Authors also included a detailed description – written in three languages – at the backside of the map.



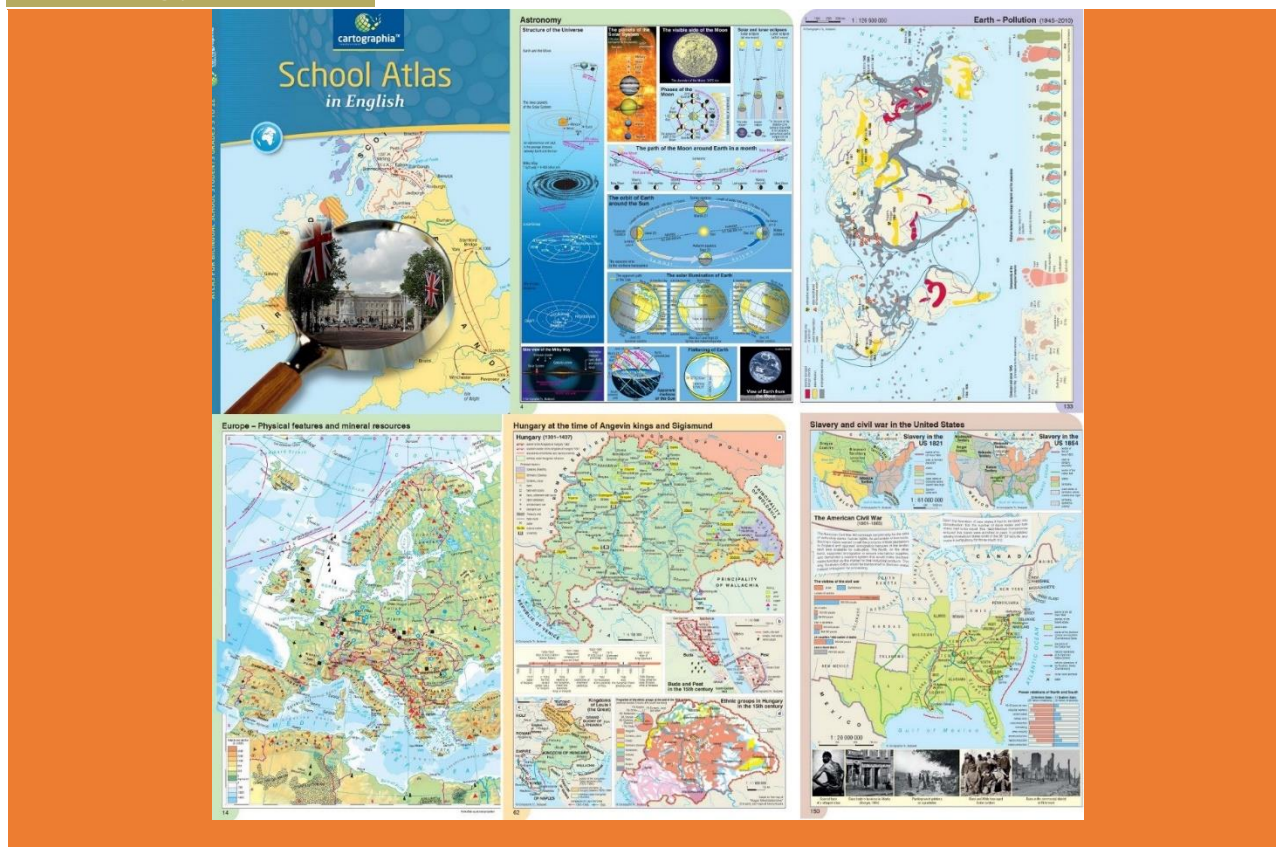


## ATLASES

### HUN\_AT1

### *School Atlas in English for Bilingual Schools*

Type of material	Paper
Number of pages	176
Dimensions (mm)	200 mm x 280 mm (portrait format)
Author(s)	Cartographia Tankönyvkiadó Ltd.
Published by	Cartographia Tankönyvkiadó Ltd.
Date of publication	2019
Language(s) of the text	English
Abstract/Description (in English or French; 100 words max)	This publication makes equal opportunities for students of English-Hungarian bilingual schools with those who study in Hungarian schools. The atlas helps their primary and secondary education as well as their school leaving exams. This school atlas in English is based on the Hungarian National Curriculum and is all in one resource that has long been missed from the bilingual education in Hungary. It is made up of maps in English and its content is almost identical to the Hungarian school atlases, but new topics have been also added, e.g. the section on Anglo-Saxon culture designed exclusively for bilingual schools.

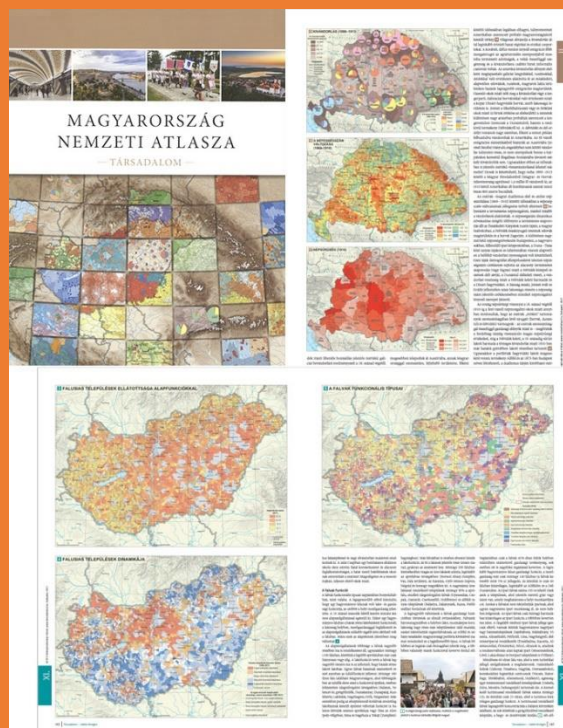


## HUN\_AT2

### National Atlas of Hungary – Society

Type of material	Paper
Number of pages	192
Dimensions (mm)	305 mm x 420 mm
Author(s)	Research Centre for Astronomy and Earth Sciences, Geographical Institute
Published by	Eötvös Loránd Research Network (ELKH), Research Centre for Astronomy and Earth Sciences, Geographical Institute
Date of publication	2021
Language(s) of the text	English
Abstract/Description (in English or French; 100 words max)	<p>The Society volume of the National Atlas of Hungary focuses on the dynamic spatial structure of society not merely for Hungary, but wherever the required data are available, for the entire Carpathian Basin, thus covering 34 thousand settlements in twelve countries.</p> <p>The more than 345 maps present changes in the numbers of the population, its spatial distribution, vital statistics, migration and composition according to various aspects (e.g. sex, age, marital status, ethnicity, religion, education, employment, social stratification), the state and changes of</p>

the settlement system in relation to the area of Hungary  
(and to that of the Carpathian Basin).

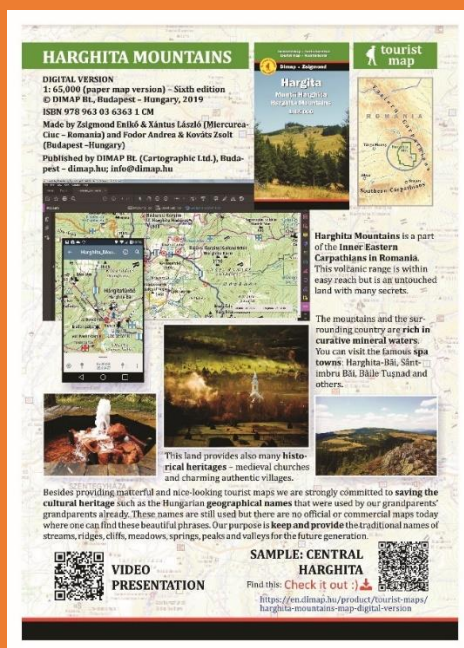


## DIGITAL PRODUCTS

HUN_DP1		Harghita Mountains
Type	Georeferenced map file for an offline navigation application (Avenza Maps)	
File format (10 words)	Georeferenced pdf file	
Operating system	Android, iOS, Windows	
License	For personal use	
Author(s)	Zsigmond Enikő, Xantus Juliánna, Xantus László (Miercurea Ciuc - Romania) Fodor Andrea, Kováts Zsolt, Berényi Dániel (Budapest - Hungary)	
Published by	DIMAP	
Date of publication or most recent update	2019	
Scale	1:65 000	
Language(s) of the presentation	Hungarian, Romanian, English, German	
Abstract/Description (in English or French; 100 words max)	About DIMAP: we make and publish a series of tourist maps of Transylvania (Romania) in cooperation with local colleagues since 1990. This area is a very diversified and a bit mysterious region of Europe and at	



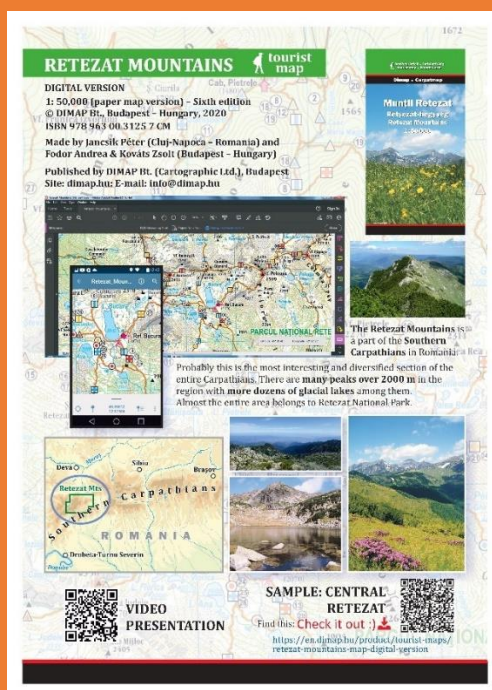
least one million Hungarian people live there. This fact is important for us. We present the various lands not just for tourists, but also to demonstrate our cultural heritage for instance with detailed appellation by Hungarian language. These – almost forgotten – names of hills/streams/lanes mostly cannot be readable on other current printed maps or map applications. You can download the digital version by a free app and navigate on it – no need for internet connection.



HUN_DP2		Retezat Mountains	
Type		Georeferenced map file for an offline navigation application (Avenza Maps)	
File format (10 words)		Georeferenced pdf file	
Operating system		Android, iOS, Windows	
License		For personal use	
Author(s)		Jancsik Péter (Cluj - Romania), Fodor Andrea, Kováts Zsolt (Budapest – Hungary)	
Published by		DIMAP	
Date of publication or most recent update		2020	
Scale		1:50 000	
Language(s) of the presentation		Hungarian, Romanian, English, German	
Abstract/Description (in English or French; 100 words max)		DIMAP makes and publishes a series of tourist maps of Transylvania (Romania) in cooperation with local colleagues since 1990. Perhaps the Retezat Mountains is the most beautiful and intact region of the Carpathian	



Mountains, with almost a hundred glacial lakes in the summit area. The map sheet presents the area of the National Park and the neighbouring lands. Authors also included a detailed description that was written in three languages. You can download the digital version by a free app and navigate on it – no need for internet connection.



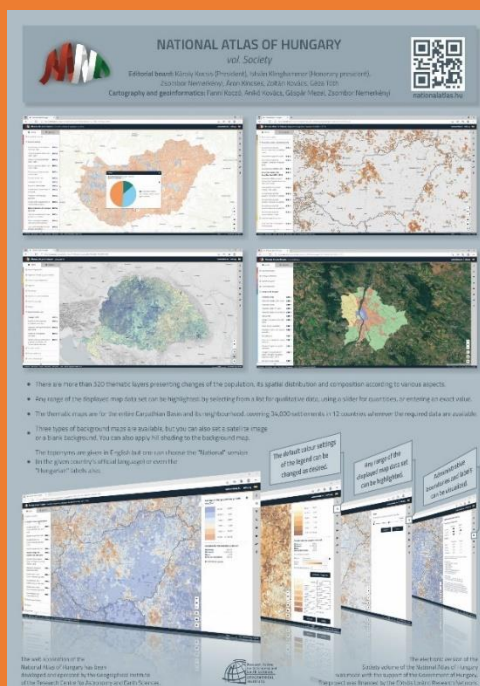
## HUN\_DP3

### National Atlas of Hungary – Society

Type	web atlas
File format (10 words)	html, js, css, map
Operating system	Windows, Mac OS X, UNIX, Linux, Android OS, iOS, and/or other
License	CC BY-NC-ND 4.0
Author(s)	Research Centre for Astronomy and Earth Sciences, Geographical Institute
Published by	Eötvös Loránd Research Network (ELKH), Research Centre for Astronomy and Earth Sciences, Geographical Institute
Date of publication or most recent update	2021
Scale	-
Language(s) of the presentation	English
Abstract/Description (in English or French; 100 words max)	The Society volume of the National Atlas of Hungary focuses on the dynamic spatial structure of society not merely for Hungary, but wherever the required data are

available, for the entire Carpathian Basin, thus covering 34 thousand settlements in twelve countries.

The more than 345 maps present changes in the numbers of the population, its spatial distribution, vital statistics, migration and composition according to various aspects (e.g. sex, age, marital status, ethnicity, religion, education, employment, social stratification), the state and changes of the settlement system in relation to the area of Hungary (and to that of the Carpathian Basin).



# ISRAEL

## MAPS ON PANELS

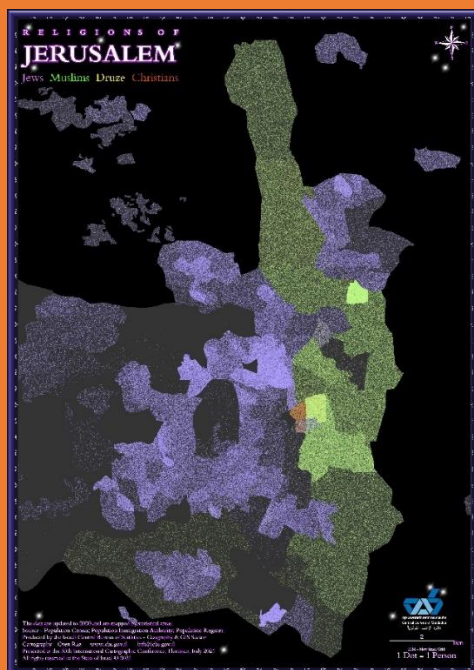
### ISR\_MP1

### Religions of Jerusalem

Type of material	Paper
Scale (if relevant)	1:17,500
Dimensions (mm)	841*1,189
Author(s)	Oren Raz
Published by	Israeli Central Bureau of Statistics
Date of publication	2021
Language(s) of the legend	English

### Abstract/Description (in English or French; 100 words max)

Dot density maps do a wonderful job in depicting raw population data. Jerusalem's population density and religions are mapped by statistical areas, depicting a distinct geographic division between the different religions in the city. With 1 dot representing 1 person, this map has about 1 million dots in it. Without any labels, this illuminous firefly design tells a story of contemporary reality, history, conflict, integration vs. separation and maybe even hope. Amen.



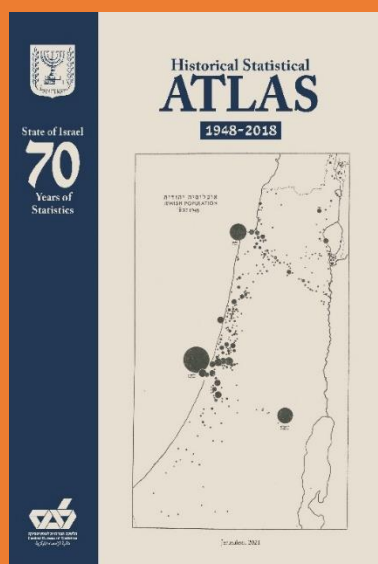




## ATLASES

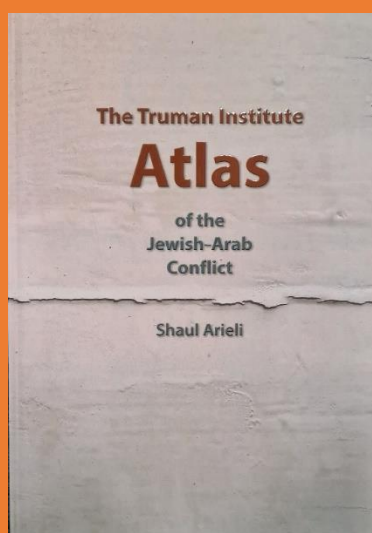
### ISR\_AT1 *State of Israel – 70 Years of Statistics, Historical Statistical atlas 1948-2018*

Type of material	Paper, hard cover
Number of pages	172
Dimensions (mm)	230*330
Author(s)	Oren Raz
Published by	Israeli Central Bureau of Statistics
Date of publication	06/2021
Language(s) of the text	Hebrew, English
Abstract/Description (in English or French; 100 words max)	<p>This atlas is a historical statistical atlas that depicts the development of the State of Israel in the fields of demography, society and the economy and in a variety of other fields.</p> <p>The atlas is largely based on data collected by the Central Bureau of Statistics over the years. Types of maps and charts: 28 historical maps and 12 historical diagrams scanned from the source; 6 maps with up-to-date data based on a retro-cartographic structure of original historical maps - displayed next to the original maps; 235 maps and 43 diagrams produced specifically for the Atlas in a contemporary design.</p>



### ISR\_AT2 *The Truman Institute Atlas of the Jewish-Arab Conflict*

<b>Type of material</b>	Paper, hard cover
<b>Number of pages</b>	80
<b>Dimensions (mm)</b>	215*305
<b>Author(s)</b>	Shaul Arieli
<b>Published by</b>	The Truman Institute, Hebrew University of Jerusalem
<b>Date of publication</b>	06/2021
<b>Language(s) of the text</b>	English
<b>Abstract/Description (in English or French; 100 words max)</b>	The question of Israel's borders has been a permanent item on the agenda of the Zionist movement and the State of Israel since the Balfour Declaration. In this atlas we have chosen to present the most significant and formative events of the conflict in two main areas—diplomacy and security, and to a lesser extent in related fields, such as demography and settlement. The initiative to publish this atlas reflects a growing understanding that there is a need for a concise and concentrated foundation that can create a common denominator for study, discourse, and debate.





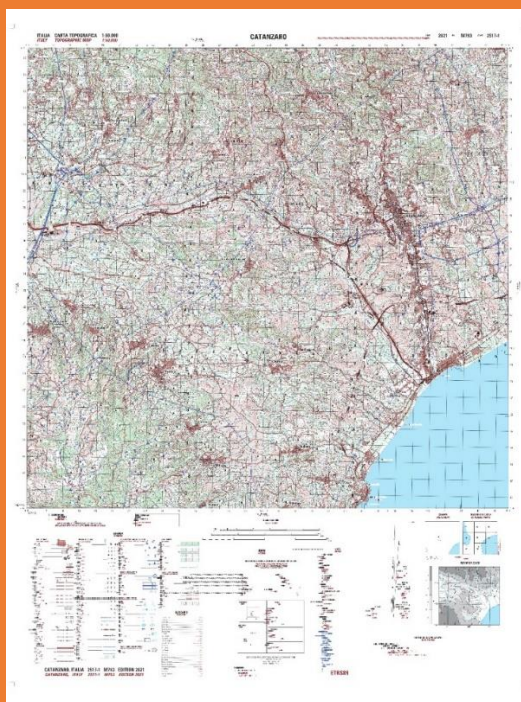
# ITALY

## MAPS ON PANELS

### ITA\_MP1

### Italian map 1:50.000 scale: M793 Map Series

Type of material	paper
Scale (if relevant)	1:50,000
Dimensions (mm)	1000 x 700
Author(s)	IGMI
Published by	IGMI
Date of publication	2021
Language(s) of the legend	Italian - English
Abstract/Description (in English or French; 100 words max)	The M793 map is characterized by a high level of planimetric detail and quantitative representation of relief using elevation contour lines derived from 10m DEM. The numerous features shown on the map are represented by standard symbols. The map content includes symbolization of transportation and cultural features, vertical obstructions, vegetation, hydrography, hypsography, vegetation, boundaries, geographic place-names. The coordinate system represented is that of the military grid System (MGRS).



## ITA\_MP2

### Italian map 1:250.000 scale: 1501 JOG/G Map Series

Type of material	paper
Scale (if relevant)	1:250,000
Dimensions (mm)	900 x 600
Author(s)	IGMI
Published by	IGMI
Date of publication	2019
Language(s) of the legend	Italian - English
Abstract/Description (in English or French; 100 words max)	The Joint Operations Graphic – Ground (JOG-G) map is characterized by a moderate level of planimetric detail and quantitative representation of relief using elevation contour lines. The various features shown on the map are represented by standard symbols. JOG content includes symbolization of transportation and cultural features, vertical obstructions, land aerodromes, airspace boundaries, navigational aids, hydrography, hypsography, vegetation, boundaries, and geographic place-names, along with a Military Grid Reference System (MGRS) grid.



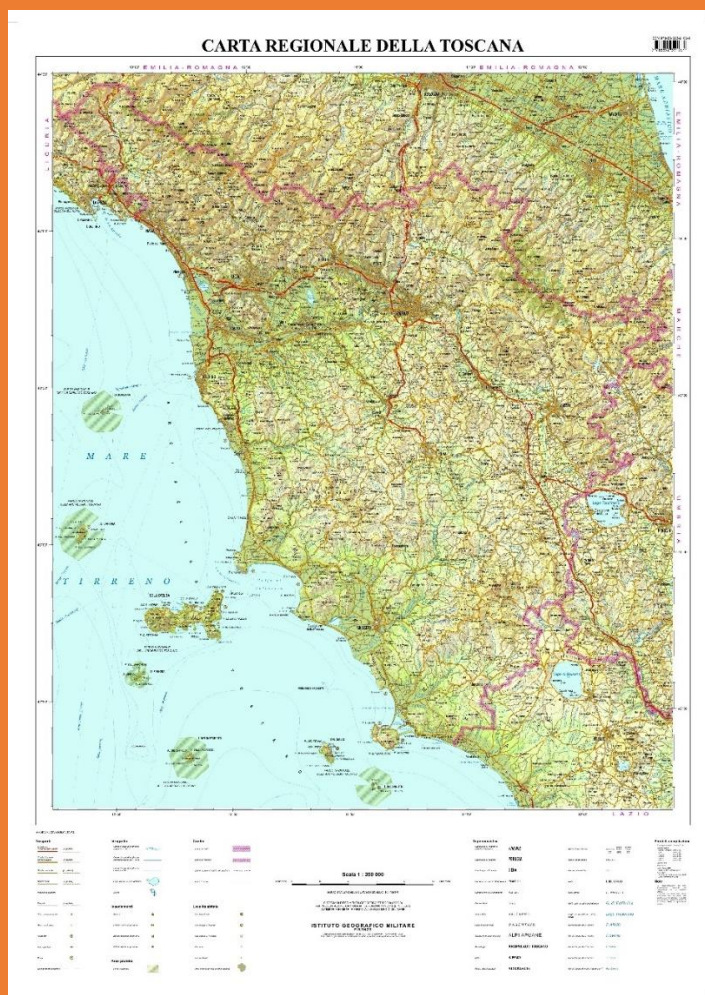
## ITA\_MP3

### Tuscany Regional Map

Type of material	paper
Scale (if relevant)	1:350,000
Dimensions (mm)	1000 x 700



Author(s)	IGMI
Published by	IGMI
Date of publication	2020
Language(s) of the legend	Italian
Abstract/Description (in English or French; 100 words max)	The map shows the main aspects that are significant for the reference scale and useful for highlighting the general characteristics of the territory. The map gives detailed information for Transportation network, main cities, administrative boundaries, hydrography and protected areas. The relief is represented by elevation tints, 100m interval contour lines and elevation points with the addition of the shaded relief.

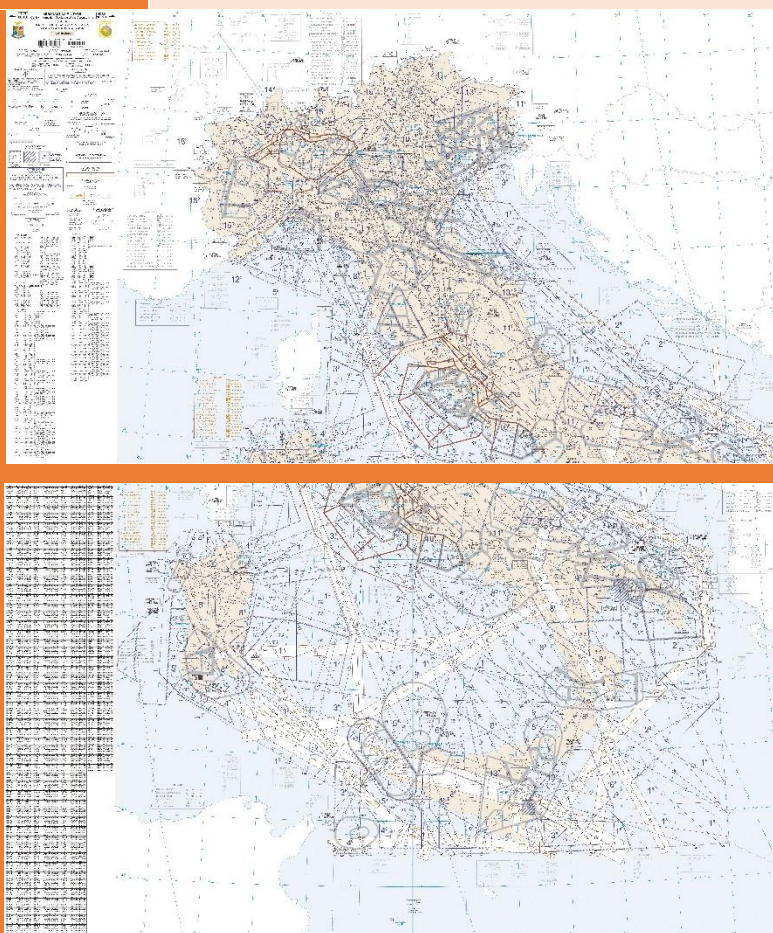


## ITA\_MP4 ENROUTE CHART

Type of material	Hardcopy
Scale (if relevant)	1: 1,350,000
Dimensions (mm)	980x570
Author(s)	C.I.G.A.
Published by	C.I.G.A.

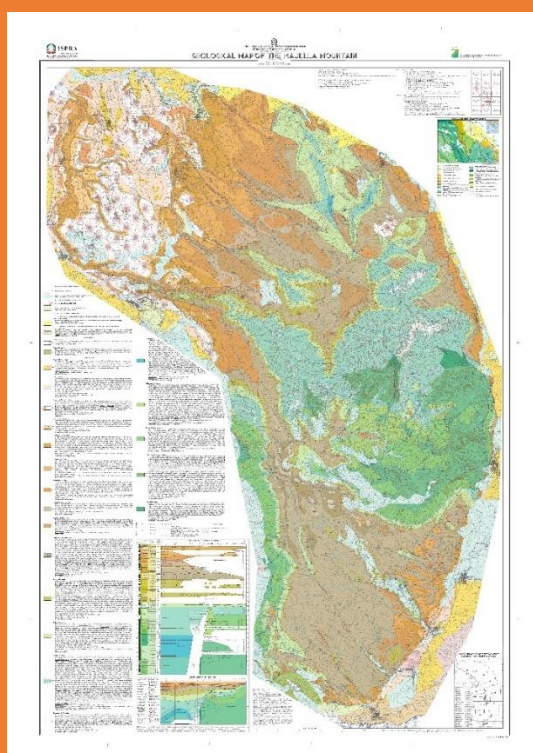


<b>Date of publication</b>	January 2021
<b>Language(s) of the legend</b>	Italian / English
<b>Abstract/Description (in English or French; 100 words max)</b>	Chart composed by two sheets, Standard ATS Route Network (included FL305) and Free Route Airspace (above FL305), front and back stamp (North/South). It provides flight crews with information for navigation along Air Traffic Service routes in accordance with air traffic procedures, as required by International Civil Aviation Organization standards and recommendations. Within the chart are shown shore lines, lakes and main watercourses. Airports are represented by conventional symbols. Information relating to airspace sectors, regulated/dangerous areas and prohibited areas, airways, radio aids and isogonic lines are reported. Update cycle: quarterly.



<b>ITA_MP5</b>	<i>Geological Map of the Majella Mountain</i>
<b>Type of material</b>	paper
<b>Scale (if relevant)</b>	1:25.000
<b>Dimensions (mm)</b>	1000 x 1400
<b>Author(s)</b>	Patacca E., Scandone P., Di Manna P.
<b>Published by</b>	ISPRA, Geological Survey of Italy; Abruzzo Region

<b>Date of publication</b>	May 2021
<b>Language(s) of the legend</b>	English
<b>Abstract/Description (in English or French; 100 words max)</b>	The geological map of the Majella Mountain is the synthesis of geological surveys carried out since the 1980s at 1:10,000 scale and integrated with detailed structural and stratigraphic analyses. The cartographic project, coordinated by Etta Patacca and Paolo Scandone, benefits of the contribution of researchers (see list on the map) from the Consiglio Nazionale delle Ricerche, Universities of Roma-La Sapienza, Roma-Tre, Torino and Pisa. In 2000-2003 the research was supported by ENI-AGIP Exploration and Development Division and, as co-sponsorship, by NorskHydro (now Statoil), in the framework of the Majella Task Force Research Project.



#### ITA\_MP6 *Geological Map of the Simbruini Mounts Regional Natural Park*

<b>Type of material</b>	paper
<b>Scale (if relevant)</b>	1:35.000
<b>Dimensions (mm)</b>	900 x 700
<b>Author(s)</b>	D'Orefice M., Fabbi S., Pantaloni M., Pichezzi R.M., Falcetti S., Roma M.
<b>Published by</b>	ISPRA, Geological Survey of Italy; Lazio Region, Simbruini Mounts Regional Natural Park
<b>Date of publication</b>	October 2019



**Language(s) of the legend**

Italian

**Abstract/Description (in English or French; 100 words max)**

The Simbruini Mounts Regional Natural Park is the largest protected area in the Lazio region. Its name derives from the Latin *sub imbris* and testifies to the rich presence of water, already used in Roman times for various aqueducts, and which originates the Aniene River. The high mountain chain of the Simbruini Mounts is interrupted by plateaus of karstic origin, intermountain plains surrounded by extensive beech forests, with numerous dolines and sinkholes. The geological map of the Park represents a valid support for the geological and geomorphological knowledge of the territory and has been created for scientific, hiking and educational purposes. Double-sided.



**ITA\_MP7**

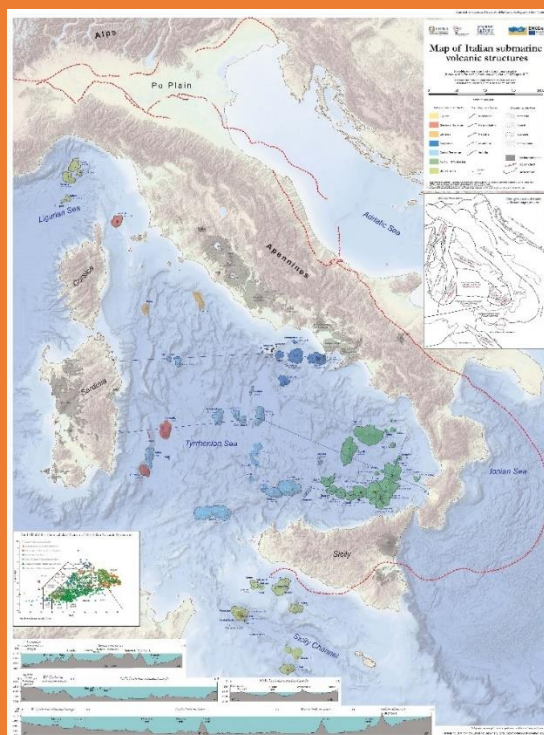
**Map of the Italian submarine volcanic structures**

Type of material	paper
Scale (if relevant)	1:1.600.000
Dimensions (mm)	700 x 800
Author(s)	Giordano G., Pensa A., Fiorentino A., Vita L., D'Angelo S.
Published by	ISPRA, Geological Survey of Italy; Roma Tre University; EMODnet
Date of publication	May 2019
Language(s) of the legend	English



**Abstract/Description (in English or French; 100 words max)**

The map represents the 76 volcanic centers identified in Italian seas on top of a DEM realized by the EMODnet Bathymetry project. Volcanic structures are characterized by sector (Ligurian, Corsica-Sardinian, Etruscan, Neapolitan, Central Tyrrhenian, Aeolian - E Tyrrhenian, Sicily Channel); by the main magmatic series of their products (calcalkaline, HK-calcalkaline, K-alkaline, NA-alkaline, tholeiitic); by morphotype (composite, fissural, lava cone, stratovolcano). The main geodynamic domains are reported in a side map, as well as the Total Alkali-Silica diagram, to help understand the subdivision into sectors.

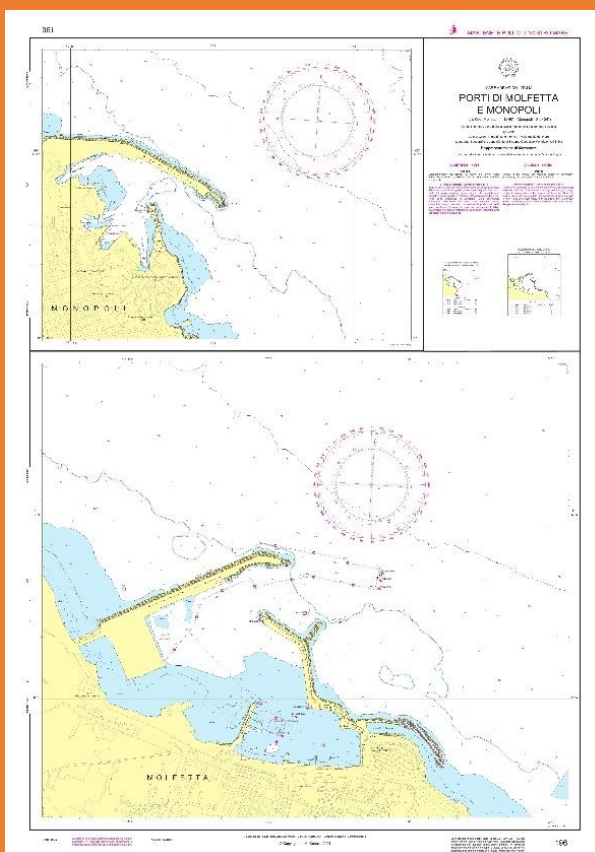


## CHARTS ON PANELS

**ITA\_CP1**

*Augusta harbour*

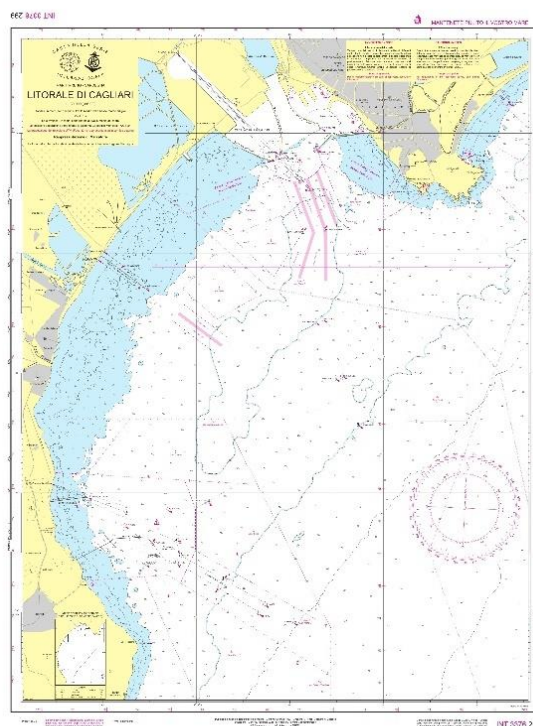
Type of material	Paper chart
Scale (if relevant)	1:10.000
Dimensions (mm)	760 mm x 1070 mm
Author(s)	Italian Hydrographic Institute
Published by	Italian Hydrographic Institute
Date of publication	June 2021
Language(s) of the legend	Italian
Abstract/Description (in English or French; 100 words max)	Official nautical paper chart derived from the corresponding Electronic Navigational Chart (ENC).



## ITA\_CP2

## Approach to Cagliari

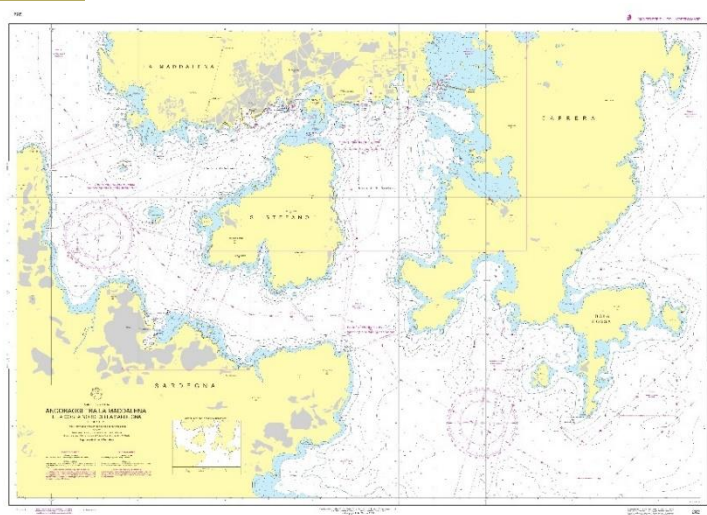
Type of material	Paper chart
Scale (if relevant)	1:30.000
Dimensions (mm)	520 mm x 680 mm
Author(s)	Italian Hydrographic Institute
Published by	Italian Hydrographic Institute
Date of publication	February 2021
Language(s) of the legend	Italian
Abstract/Description (in English or French; 100 words max)	Nautical international chart (INT) compliant with the standards defined by the International Hydrographic Organization (IHO).



### ITA\_CP3 *Anchorage between la Maddalena and the northern of Sardinia*

Type of material	Paper chart
Scale (if relevant)	1:10.000
Dimensions (mm)	1100 mm x 750 mm
Author(s)	Italian Hydrographic Institute
Published by	Italian Hydrographic Institute
Date of publication	September 2021
Language(s) of the legend	Italian
Abstract/Description (in English or French; 100 words max)	Official nautical paper chart derived from the corresponding Electronic Navigational Chart (ENC).

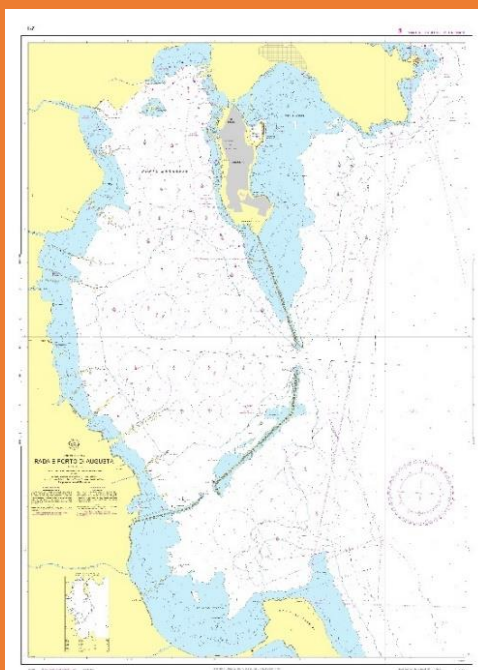




#### ITA\_CP4

#### *Monopoli harbour and Molfetta harbour*

Type of material	Paper chart
Scale (if relevant)	1:5.000
Dimensions (mm)	520 mm x 750 mm
Author(s)	Italian Hydrographic Institute
Published by	Italian Hydrographic Institute
Date of publication	August 2021
Language(s) of the legend	Italian
Abstract/Description (in English or French; 100 words max)	Official nautical paper chart derived from the corresponding Electronic Navigational Chart (ENC).



## ATLASES

ITA_AT1		<i>A journey to Mining Italy</i>
Type of material	paper	
Number of pages	122	
Dimensions (mm)	215 x 215 x 10	
Author(s)	Patané A., Sisti R., Lasco A. (Editors)	
Published by	ISPRA; Rete Nazionale dei Parchi e dei Musei Minerari (ReMi)	
Date of publication	July 2020	
Language(s) of the text	Italian / English	
Abstract/Description (in English or French; 100 words max)	<p>Several mining sites have redesigned the mining landscape from Northern to Southern Italy. They have been transformed, valued and converted into mining parks and museums and are today presented in “A journey to Mining Italy”.</p> <p>The ReMi network “A journey to Mining in Italy” summarizes the results of years of work spent into creating new forms of cultural attractions deriving from former mines.</p> <p>The promotion of mining tourism as a form of responsible and sustainable tourism especially if integrated with the already existing circuits of historical walks, Italian villages, touristic railways, eco-friendly pathways and high quality enogastronomic sector.</p>	



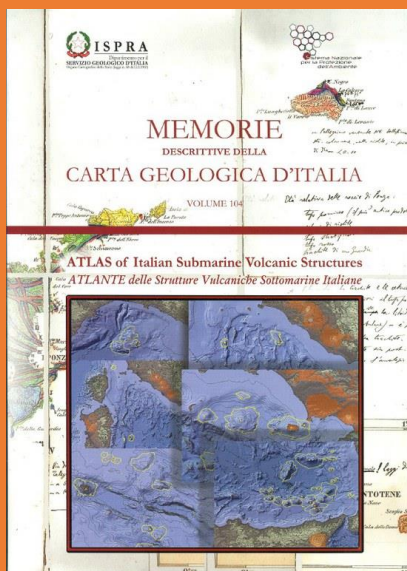
## ITA\_AT2

## Atlas of Italian Submarine Volcanic Structures

Type of material	paper
Number of pages	188
Dimensions (mm)	210 x 297 x 10
Author(s)	D'Angelo S., Fiorentino A., Giordano G., Pensa A., Pinton A., Vita L. (Editors)
Published by	ISPRA, Geological Survey of Italy
Date of publication	May 2019
Language(s) of the text	English

### Abstract/Description (in English or French; 100 words max)

This volume presents the results of the inventory of submerged volcanic structures in Italian seas carried out in the frame of the European EMODnet Geology Project. Introductory chapters are dedicated to general topics, whereas the Atlas of the Italian Submerged Volcanic Structures constitutes the second part. The 76 volcanic centers identified are presented individually in dedicated sheets and organized in seven sectors: Ligurian, Corsica-Sardinian, Etruscan, Neapolitan, Central Tyrrhenian, Aeolian-Tyrrhenian and Sicily Channel. Information is provided on geographic location, geology and geomorphology, geophysical data, heat flow, magnetic/geothermal anomalies, samples, geochemical composition, age, type of volcanic activity, gas/fluid emissions.



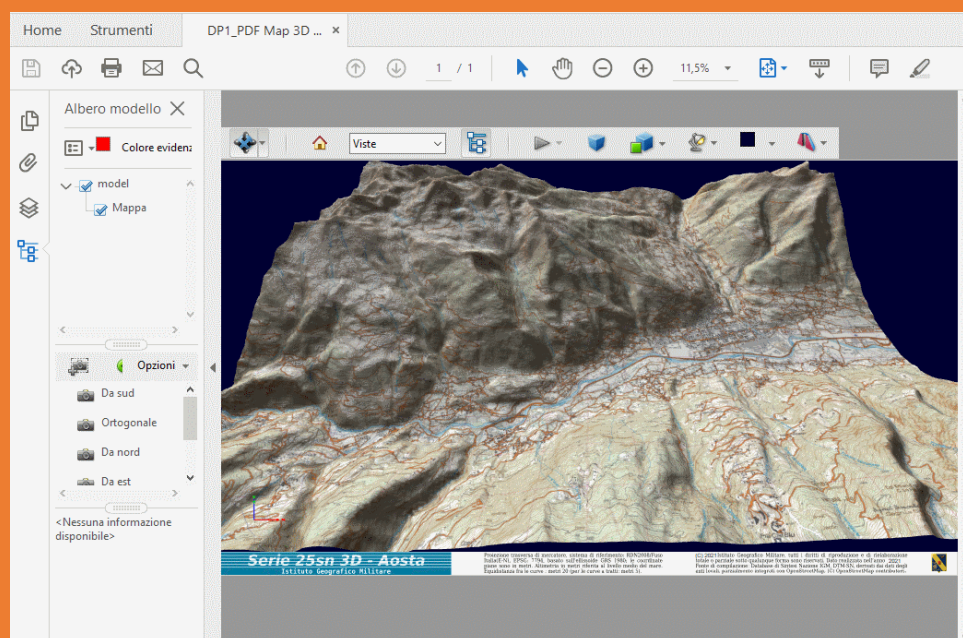


## DIGITAL PRODUCTS

### ITA\_DP1

### PDF Map 3D "Aosta"

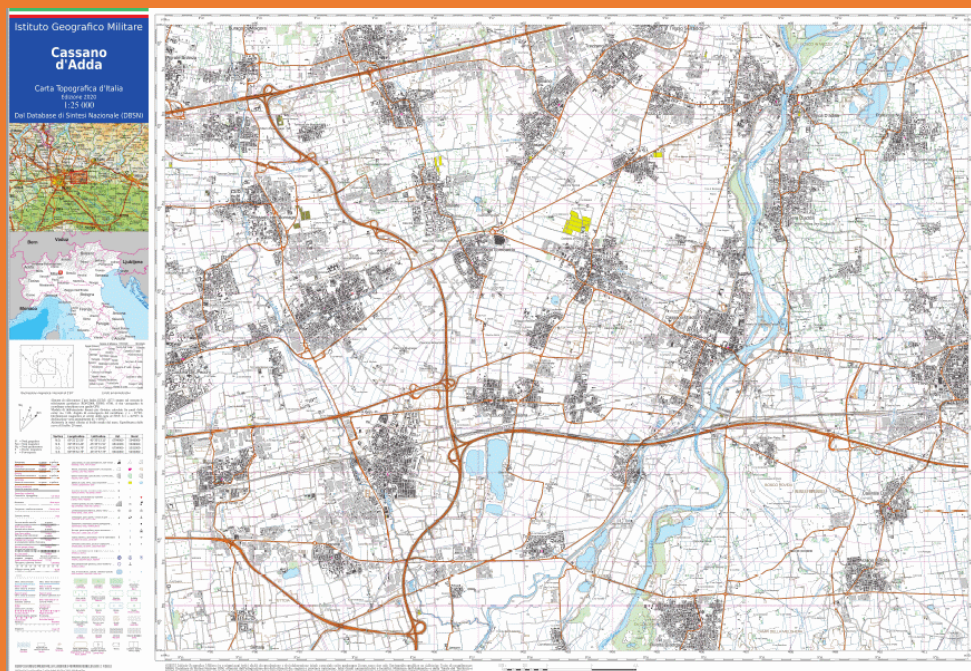
Type	Interactive 3D map
File format (10 words)	pdf
Operating system	Windows
License	Copyright IGMI
Author(s)	IGMI
Published by	IGMI
Date of publication or most recent update	2021
Scale	1:25,000
Language(s) of the presentation	Italian
Abstract/Description (in English or French; 100 words max)	This interactive 3D map represents the central part of Aosta Valley, in the Italian Western Alps. It employs the transverse Mercator projection, using as reference system RDN2008/Fuso Italia (E-N), EPSG: 7794, based on GRS 1980 ellipsoid. Plane coordinates are in meters. Altimetry refers to the mean sea level. Contour line equidistance: 20 m (dashed contour line equidistance: 5 m).



## ITA\_DP2

### PDF multilayer Map "Cassano Adda"

Type	Interactive map
File format (10 words)	pdf
Operating system	Windows
License	Copyright IGMI
Author(s)	IGMI
Published by	IGMI
Date of publication or most recent update	2020
Scale	1:25,000
Language(s) of the presentation	Italian
Abstract/Description (in English or French; 100 words max)	Italian map 1:25.000 scale is a digital product created in Geo-pdf file format and ready to be opened in free software application like Adobe Acrobat Reader. It consists of a standard 1:25,000 scale topographic map and an aerial photo of 1954 in order to evaluate the change of the territory and to estimate the land consumption.

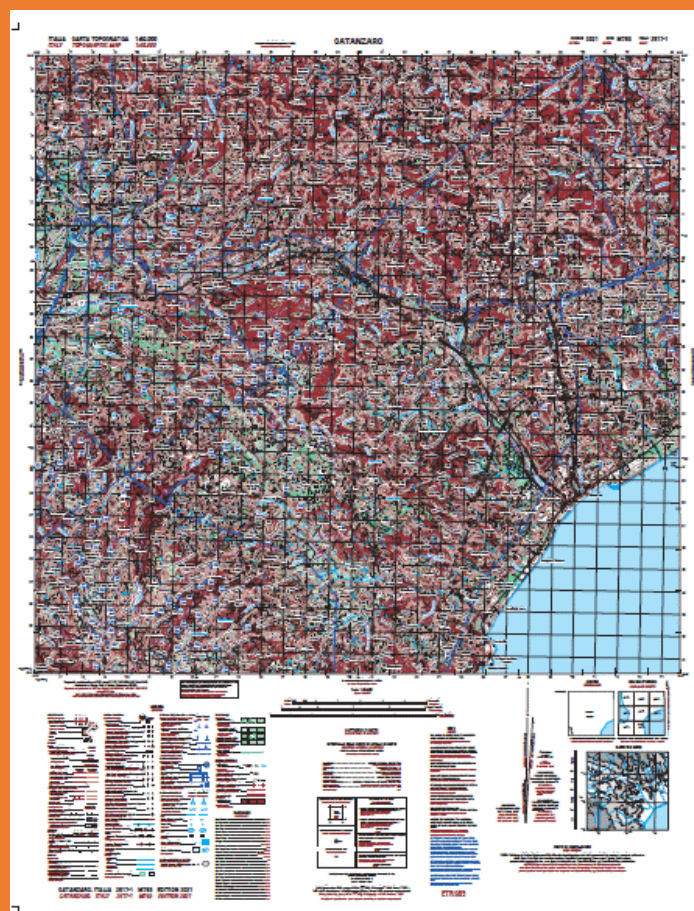


## ITA\_DP3

### PDF IGMI map at 50.000 scale.

Type	Digital map
File format (10 words)	pdf
Operating system	Windows
License	Copyright IGMI
Author(s)	IGMI
Published by	IGMI
Date of publication or most recent update	2021

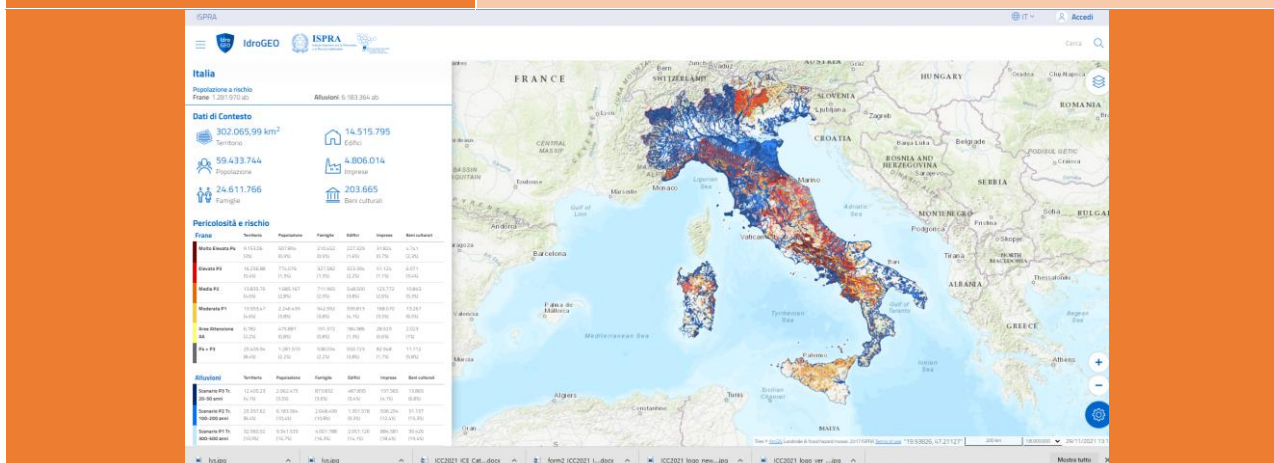
<b>Scale</b>	1:50,000	
<b>Language(s) of the presentation</b>	Italian - English	
<b>Abstract/Description (in English or French; 100 words max)</b>	PDF IGMI map at 50.000 scale is a digital product created in Geo-pdf file format and ready to be opened in free software application like Adobe Acrobat Reader. The M793 map is characterized by a high level of planimetric detail and quantitative representation of relief using elevation contour lines derived from 10m DEM. The numerous features shown on the map are represented by standard symbols. The map content includes symbolization of transportation and cultural features, vertical obstructions, vegetation, hydrography, hypsography, vegetation, boundaries, geographic place-names.	

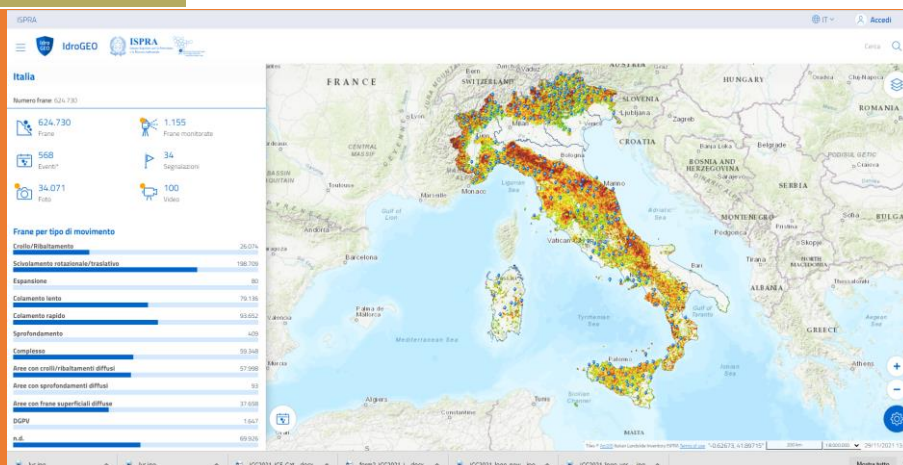


## DIGITAL SERVICES



<b>ITA_DS1</b>	<b>IdroGEO</b>
<b>Type of service</b>	GIS application, Web services
<b>Format (10 words)</b>	WMS, WFS, GeoJson, CSV, REST API, Vector Tiles, TMS Tile, PostgreSQL/PostGIS DBMS, HTML5
<b>Software platform</b>	Open Source
<b>URL web link</b>	<a href="https://idrogeo.isprambiente.it/app/">https://idrogeo.isprambiente.it/app/</a>
<b>License</b>	Open data: CC BY-SA 4.0
<b>Author(s)</b>	Trigila A., Iadanza C.
<b>Published by</b>	ISPRA
<b>Date published or most recent updated</b>	2021
<b>Scale</b>	1:10,000
<b>Language(s) of the presentation</b>	Italian / English / French / German
<b>Abstract/Description (in English or French; 100 words max)</b>	The national IdroGEO web platform allows the navigation, social sharing and download of data, maps, reports of the Italian Landslide Inventory, national hazard maps and risk indicators. It is a tool for communication and dissemination of information to support decisions in risk mitigation policies, land use planning, preliminary design of infrastructures, management of civil protection emergencies. The challenges of the platform concern usability, access on multiple devices (smartphones, tablets, desktops), interoperability, transparency, reuse of information and software in the public sector. The solutions adopted to address them include Progressive Web Application (PWA), Application Programming Interface (API), open libraries and software. A landslide inventory management system has been developed via REST API for data entry and approval workflow to update the Italian Landslide Inventory in a distributed and collaborative manner.





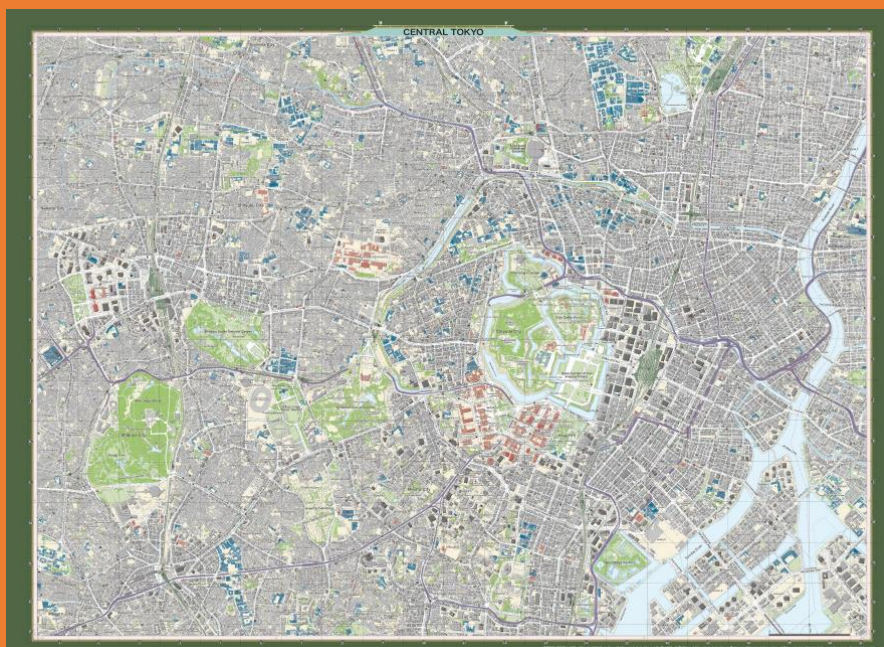
# JAPAN

## MAPS ON PANELS

### JPN\_MP1

*1:10,000 Topographic Map, "CENTRAL TOKYO", in commemoration of the enthronement of His Majesty the Emperor*

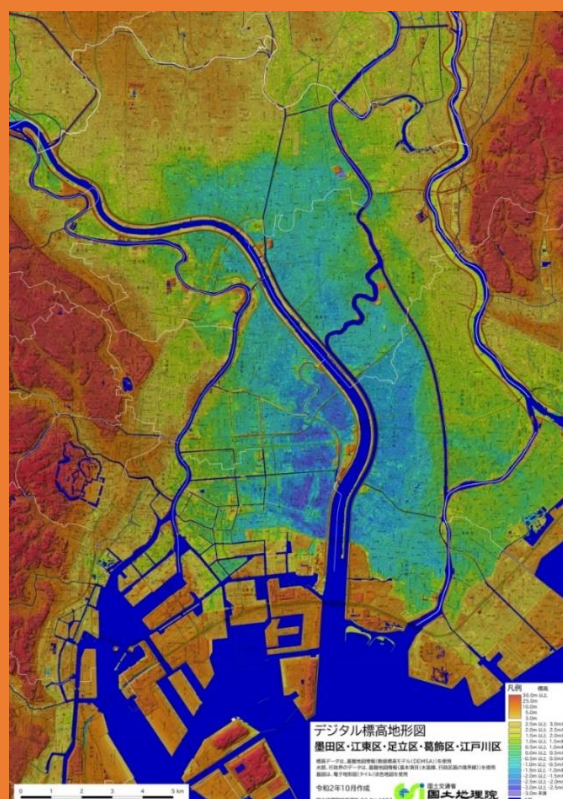
Type of material	paper
Scale (if relevant)	1:10,000
Dimensions (mm)	1,090 × 790
Author(s)	Geospatial Information Authority of Japan
Published by	Geospatial Information Authority of Japan
Date of publication	22nd Oct. 2019
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	GSI published the commemorative map, "CENTRAL TOKYO" on the sidelines of the "Sokuirei-Seiden-no-gi", Ceremony of the Enthronement of His Majesty the Emperor at the Seiden(State Hall), on October 22, 2019. This map is created in English in addition to Japanese for the purpose of leaving Tokyo, the capital of Japan, to future generations as the map, and conveying central Tokyo clearly in the first year of the new era, "Reiwa", both to Japanese and foreign visitors.





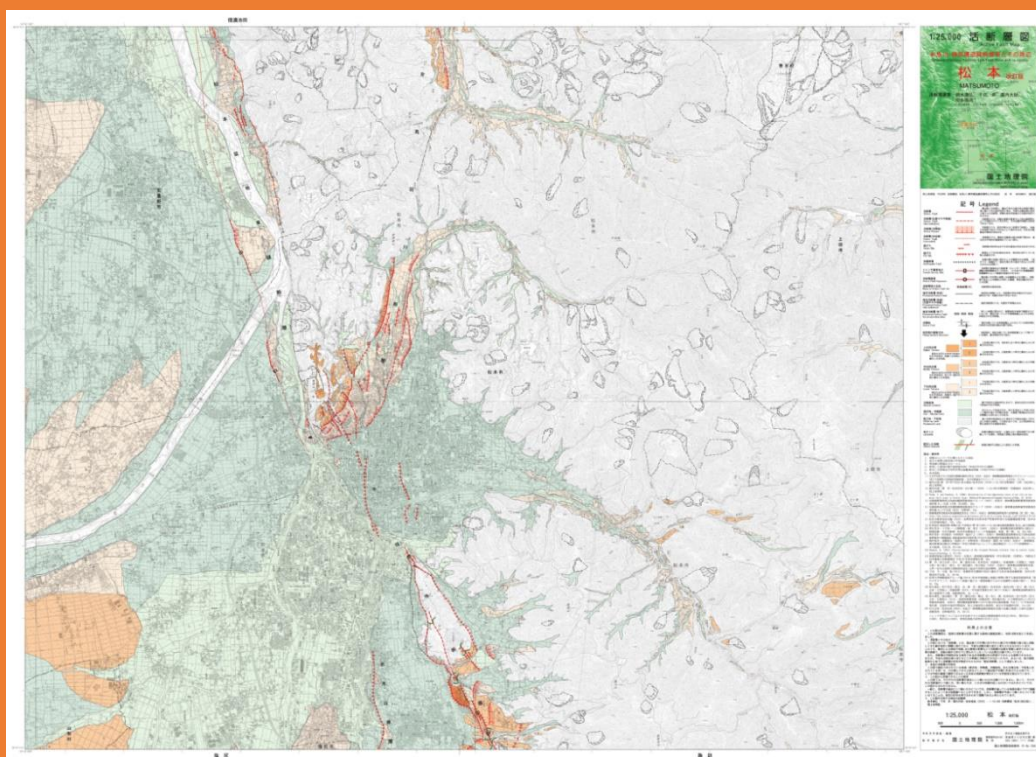
**JPN\_MP2** *Digital Elevation Topographic Maps, "Sumida Ward, Koto Ward, Adachi Ward, Katsushika Ward, Edogawa Ward"*

Type of material	paper
Scale (if relevant)	1:22,000
Dimensions (mm)	841 × 1,189
Author(s)	Geospatial Information Authority of Japan
Published by	Geospatial Information Authority of Japan
Date of publication	2020
Language(s) of the legend	Japanese
Abstract/Description (in English or French; 100 words max)	The Geospatial Information Authority of Japan has created a digital elevation topographic map in which the lowlands are colored cold and the highlands are colored warm, with shades superimposed. In the lowlands of Tokyo shown on this map, urban industrialization is progressing, land subsidence is progressing, and millions of people live in areas protected by embankments. Although there has been no major flood damage in the last half century, this map was created because major damage is expected in areas where the altitude is lower than 0 m, and local governments need to focus on disaster prevention.



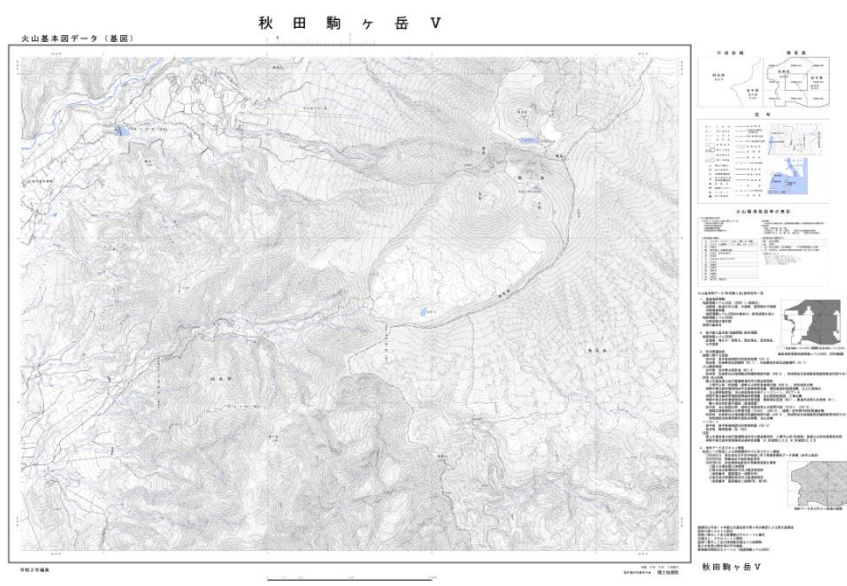
**JPN\_MP3 1 : 25,000 Active Fault Map "Matsumoto Kaiteiban", "Itoigawa-Shizuoka Fault Zone and its vicinity"**

Type of material	paper
Scale (if relevant)	1:25,000
Dimensions (mm)	1,091 × 788
Author(s)	Geospatial Information Authority of Japan
Published by	Geospatial Information Authority of Japan
Date of publication	12th Nov. 2020
Language(s) of the legend	Japanese
Abstract/Description (in English or French; 100 words max)	The Geospatial Information Authority (GSI) conducted a tectonic geomorphological survey along the northern central part of the Itoigawa-Shizuoka Tectonic Line (ISTL) fault zone, which is a major active fault zone in Japan and has a high risk of earthquake disasters. The survey was based on aerial photograph interpretation, field surveys, and high-resolution digital elevation models (DEM) from airborne LiDAR data. The result was summarized as "1:25,000 Active Fault Map" and released in November, 2020. This map shows not only major known active fault but also the newly confirmed fault-related deformations."



**JPN\_MP4 Volcanic Base Map Data (Base map) "Akita Komagatake V"**

Type of material	paper
Scale (if relevant)	1:10,000
Dimensions (mm)	1,189 × 841
Author(s)	Geospatial Information Authority of Japan
Published by	Geospatial Information Authority of Japan
Date of publication	2021
Language(s) of the legend	Japanese
Abstract/Description (in English or French; 100 words max)	Geospatial Information Authority of Japan proceeds to develop Volcanic Base Map of active volcanos for the purpose of providing basic information for formulating various types of volcanic disaster prevention plans and volcano research. This map is a part of Akita Komagatake that was developed using airborne laser survey data etc. and released in 2021.



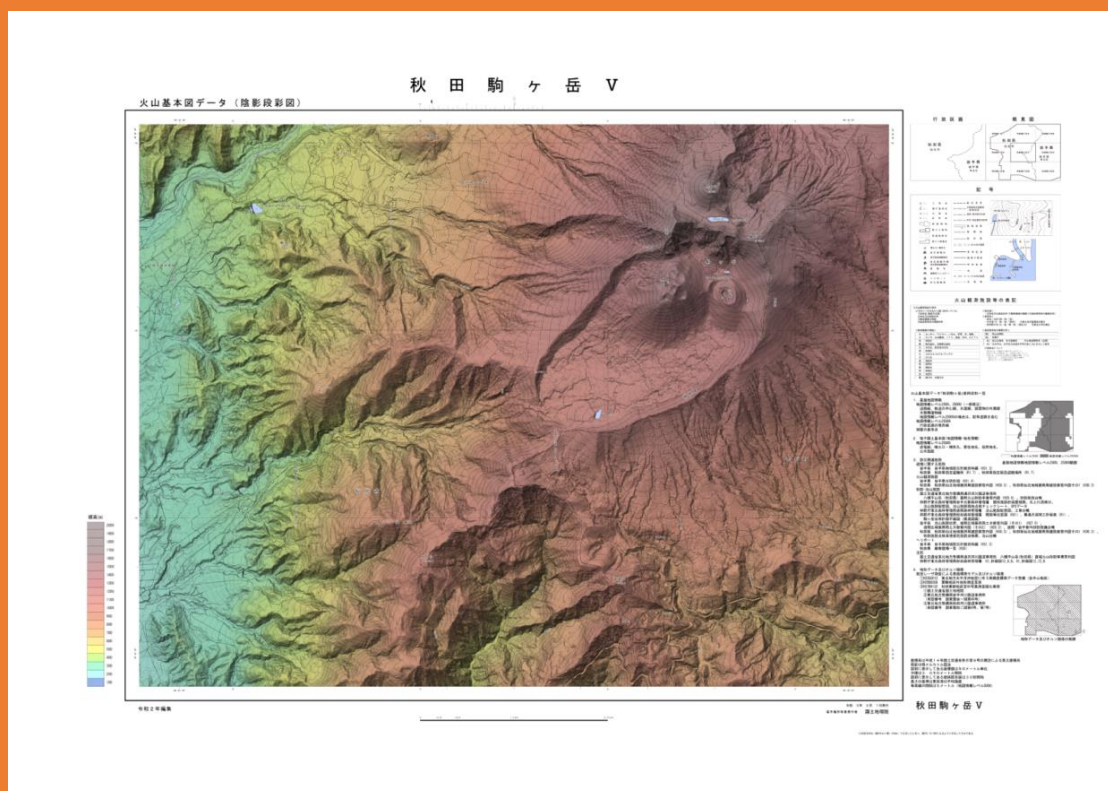
**JPN\_MP5 Volcanic Base Map Data (Color shaded map) "Akita Komagatake V"**

Type of material	paper
Scale (if relevant)	1:10,000
Dimensions (mm)	1,189 × 841
Author(s)	Geospatial Information Authority of Japan
Published by	Geospatial Information Authority of Japan
Date of publication	2021
Language(s) of the legend	Japanese



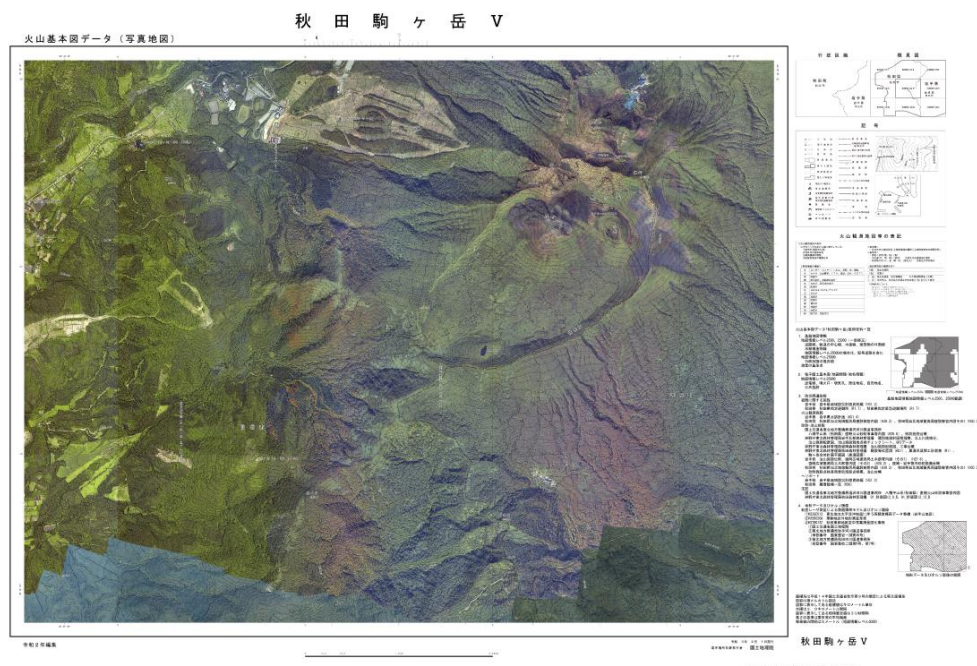
**Abstract/Description (in English or French; 100 words max)**

Geospatial Information Authority of Japan proceeds to develop Volcanic Base Map of active volcanos for the purpose of providing basic information for formulating various types of volcanic disaster prevention plans and volcano research. This map is a part of Akita Komagatake that was developed using airborne laser survey data etc. and released in 2021.



**JPN\_MP6 Volcanic Base Map Data (Photo map) "Akita Komagatake V"**

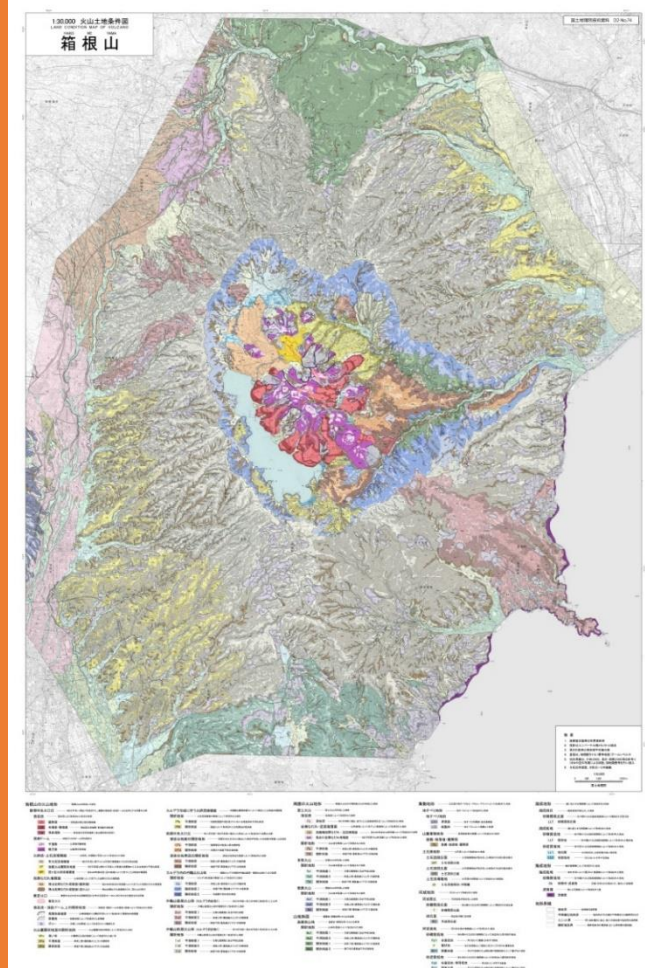
Type of material	paper
Scale (if relevant)	1:10,000
Dimensions (mm)	1,189 × 841
Author(s)	Geospatial Information Authority of Japan
Published by	Geospatial Information Authority of Japan
Date of publication	2021
Language(s) of the legend	Japanese
Abstract/Description (in English or French; 100 words max)	Geospatial Information Authority of Japan proceeds to develop Volcanic Base Map of active volcanos for the purpose of providing basic information for formulating various types of volcanic disaster prevention plans and volcano research. This map is a part of Akita Komagatake that was developed using airborne laser survey data etc. and released in 2021.



## JPN\_MP7

## Land Condition Map of Volcano "Mt.Hakone"

Type of material	paper
Scale (if relevant)	1:30,000
Dimensions (mm)	1,189 × 841
Author(s)	Geospatial Information Authority of Japan
Published by	Geospatial Information Authority of Japan
Date of publication	2021
Language(s) of the legend	Japanese
Abstract/Description (in English or French; 100 words max)	Geospatial Information Authority of Japan publishes Land Condition Map of Volcano that depict classification of the volcanic material deposition (lava flows, pyroclastic flows, pyroclastic hills, debris avalanches, etc.) that was caused by previous volcanic activity. This map is Land Condition Map of Volcano "Mt.Hakone" (released in 2021).



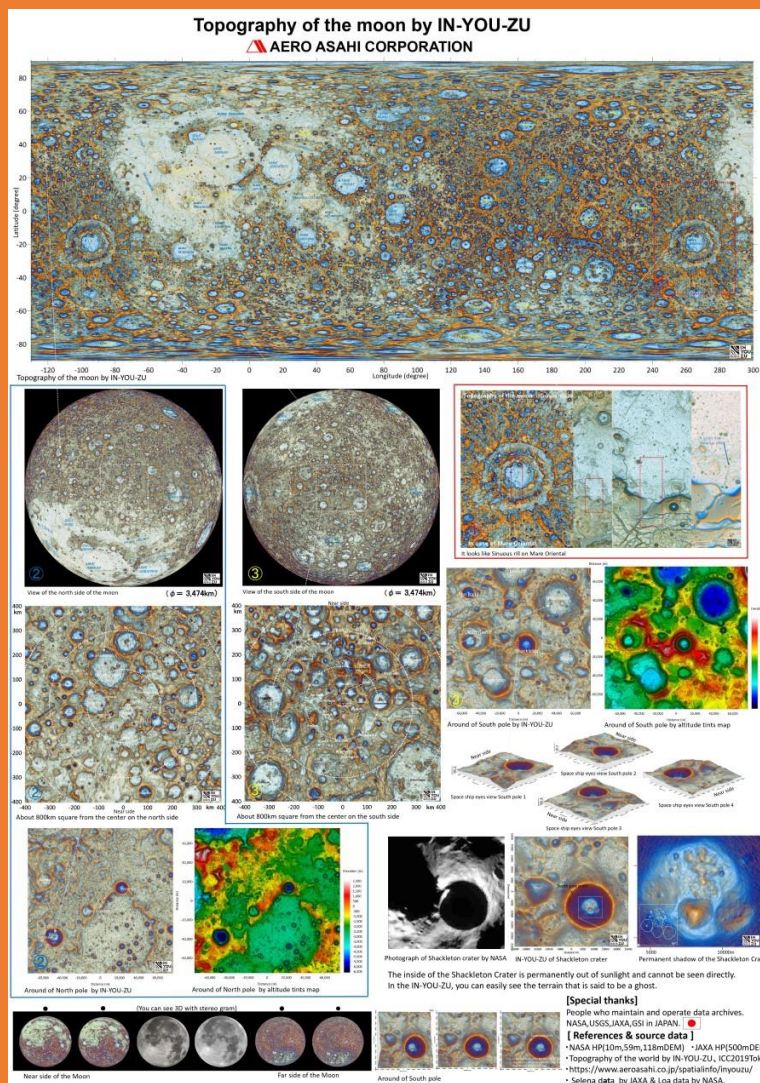
## JPN\_MP8

### Topography of the Moon by IN-YOU-ZU

Type of material	paper
Scale (if relevant)	1:50,000
Dimensions (mm)	841 × 1,189
Author(s)	AKIYAMA Yukihide, SAKAI Takuya
Published by	AERO ASAHI CORPORATION
Date of publication	7th July 2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	This map uses data measured by the laser altimeter of the lunar orbiting satellite SELENE operated by JAXA, and represents the topography of the moon in the IN-YOU-ZU. The IN-YOU-ZU analyzes the topographical shape as a waveform and expresses the undulations. By using the IN-YOU-ZU analysis method, craters of various sizes are clearly shown. This map makes it easy to grasp the position and shape of the crater by showing the high altitude part in brown color and the low altitude part in blue color compared to the surroundings. Satellite remote sensing technology



contributes to detailed topographical understanding of planets far from the earth.



## JPN\_MP9

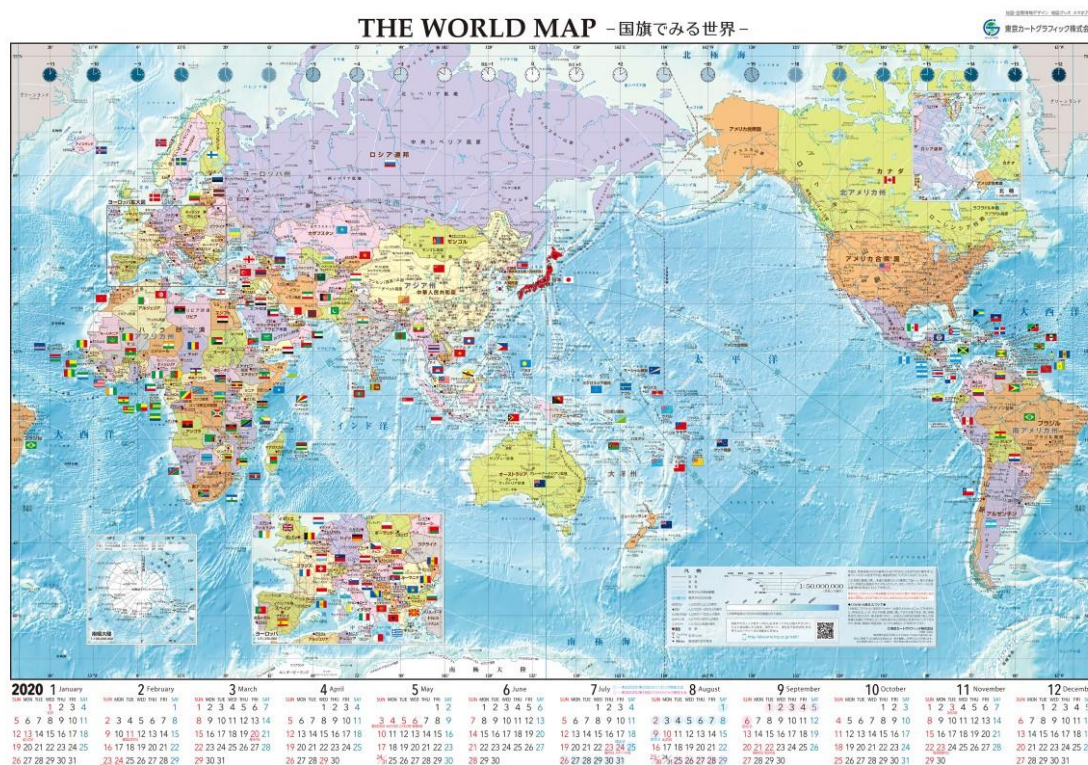
## 2020 Calendar The World Map : The world seen from the national flag

Type of material	paper
Scale (if relevant)	1:50,000,000
Dimensions (mm)	841 × 594
Author(s)	Tokyo Cartographic Co., Ltd.
Published by	Tokyo Cartographic Co., Ltd.
Date of publication	Dec. 2019
Language(s) of the legend	Japanese

### Abstract/Description (in English or French; 100 words max)

This world map shows the national flag where each country is displayed. Compared to the map with the national flag placed around the map, the map with the national flag that reflects the history, culture, and thought of each country at the actual position of each country like this map intuitively recognizes that the national flag and the country are connected, and it is clear that the national flag has regional characteristics.

In addition, "8 directional lines indicating north, south, east, and west" and "equidistant areas every 1000 km" from Tokyo are displayed.



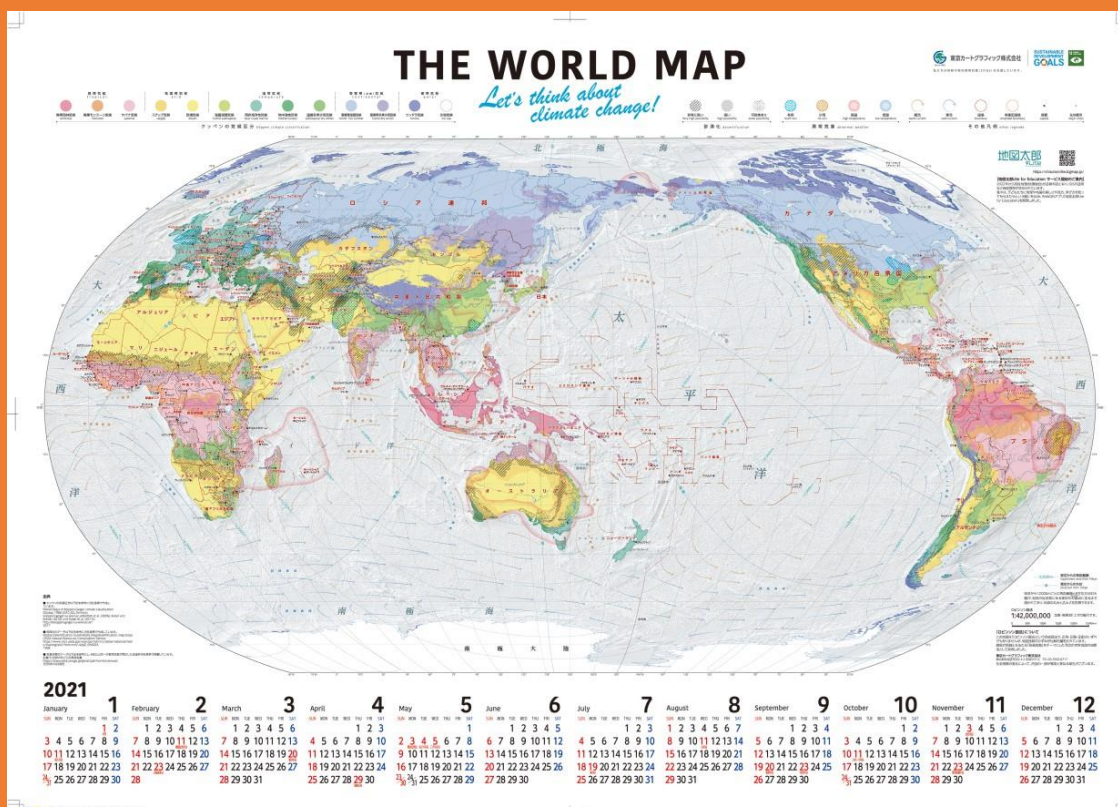
### JPN\_MP10

### 2021 Calendar The World Map: Let's think about climate change

Type of material	paper
Scale (if relevant)	1:42,000,000
Dimensions (mm)	841 × 594
Author(s)	Tokyo Cartographic Co., Ltd.
Published by	Tokyo Cartographic Co., Ltd.
Date of publication	Dec. 2020
Language(s) of the legend	Japanese
Abstract/Description (in English or French; 100 words max)	This world map uses the Robinson projection, which has a relatively relaxed projection distortion, but it is neither conformal, equal product, nor equidistant. The information



on the land area expresses the Köppen climate classification with a unique sense of color, adds information on abnormal weather and desertification that have occurred in the world, and appeals for "SDG's Goal 13-CLIMATE ACTION-". In addition, "8 directional lines indicating north, south, east, and west" and "equidistant areas every 1000 km" from Tokyo are displayed.



## CHARTS ON PANELS

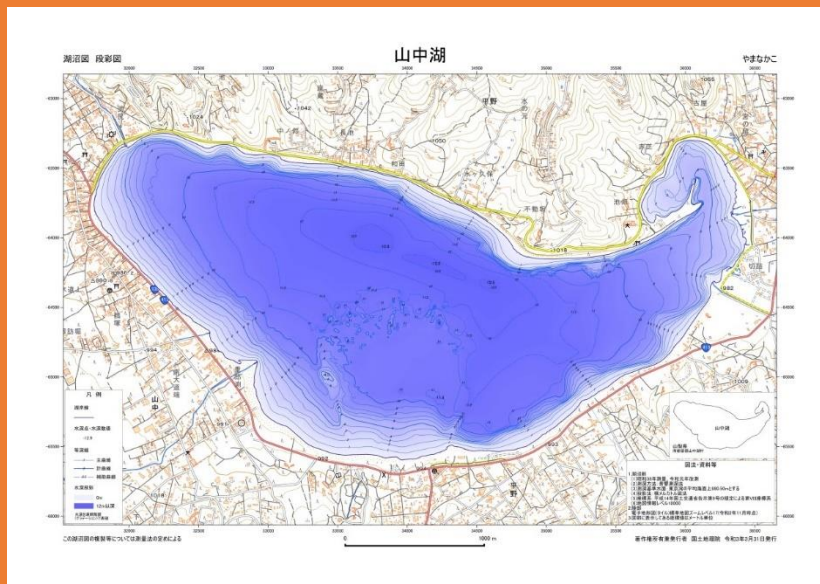
### JPN\_CP1

### Lake Chart (Color Gradated Chart) "Yamanakako"

Type of material	paper
Scale (if relevant)	1:10,000
Dimensions (mm)	594 × 420
Author(s)	Geospatial Information Authority of Japan
Published by	Geospatial Information Authority of Japan
Date of publication	2021
Language(s) of the legend	Japanese
Abstract/Description (in English or French; 100 words max)	Geospatial Information Authority of Japan publishes Lake Charts for the purpose of use of lakes, development, maintenance, environmental plan, management plan or

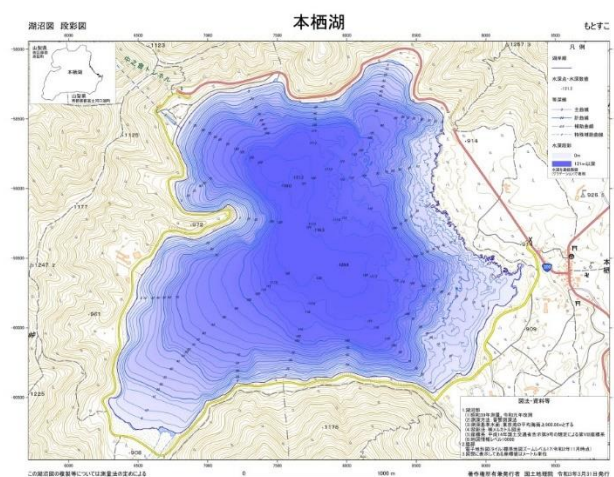


fishery. This map is Lake Chart "Yamanakako"(released in 2021).



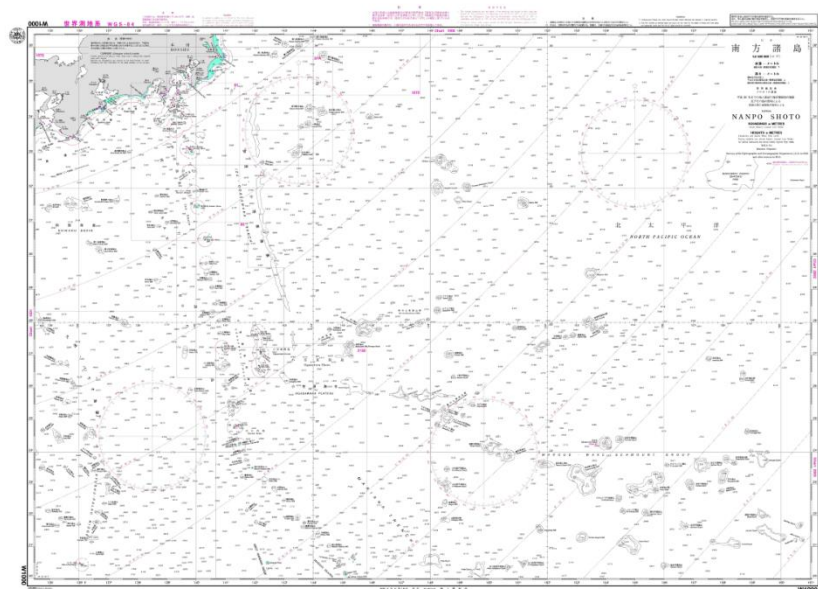
## JPN\_CP2 Lake Chart (Color Gradated Chart) "Motosuko"

Type of material	paper
Scale (if relevant)	1:10,000
Dimensions (mm)	594 × 420
Author(s)	Geospatial Information Authority of Japan
Published by	Geospatial Information Authority of Japan
Date of publication	2021
Language(s) of the legend	Japanese
Abstract/Description (in English or French; 100 words max)	Geospatial Information Authority of Japan publishes Lake Charts for the purpose of use of lakes, development, maintenance, environmental plan, management plan or fishery. This map is Lake Chart "Motosuko"(released in 2021).



### JPN\_CP3 Nanpo Shoto

Type of material	Paper
Scale (if relevant)	1:2,500,000
Dimensions (mm)	1,189 × 841
Author(s)	Japan Coast Guard
Published by	Japan Coast Guard
Date of publication	15th Oct. 2020
Language(s) of the legend	Japanese, English
Abstract/Description (in English or French; 100 words max)	W1000 "Nanpo Shoto" is a new chart published in 2020. Nanpo Shoto means "islands southern part of Japan". It consist of a lot of active submarine volcanos, including Nishi-no-Shima and Fukutoku-Oka-no-Ba on which new lands were born these days, and is placed in a line from Mt. Fuji (Fuji San) to Mariana islands. In this chart, only depth contours which can express significant submarine topographies are drawn.

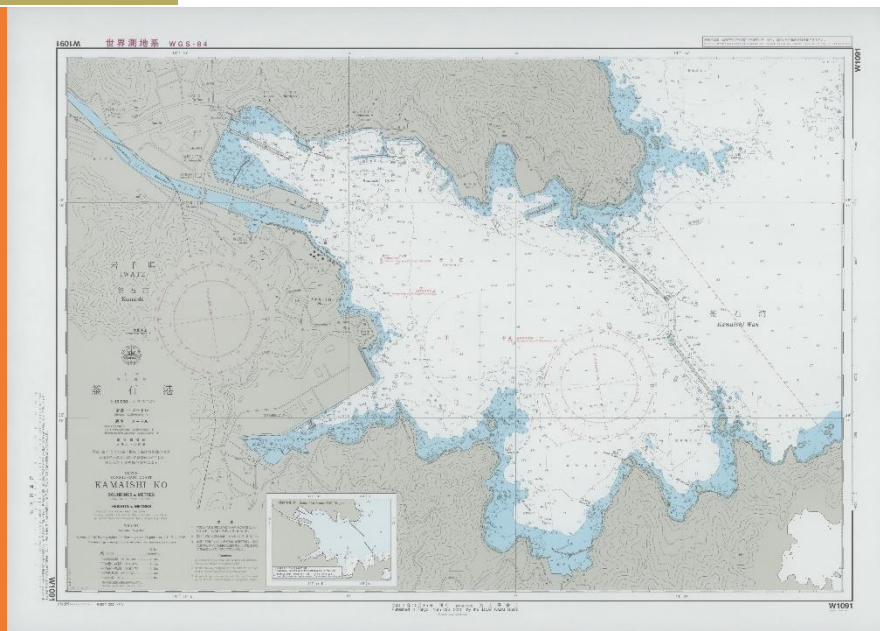


## JPN\_CP4

## Kamaishi Ko

Type of material	Paper
Scale (if relevant)	1:10,000
Dimensions (mm)	841 × 594
Author(s)	Japan Coast Guard
Published by	Japan Coast Guard
Date of publication	15th Oct. 2020
Language(s) of the legend	Japanese, English
Abstract/Description (in English or French; 100 words max)	JHOD was established under the imperial navy in 1871 (currently under Japan Coast Guard) to produce navigational charts. JHOD published its first chart "RIKUCHU KOKU KAMAISHI" in 1872. Current year is the 150th anniversary of the establishment. Kamaishi Ko is one of the harbours in the NE Japan and recovering from damage of the Great Earthquake of Eastern Japan in 2011. W1091 "Kamaishi Ko", covering the area of "RIKUCHU KOKU KAMAISHI", was published in 2020 to update harbour information.

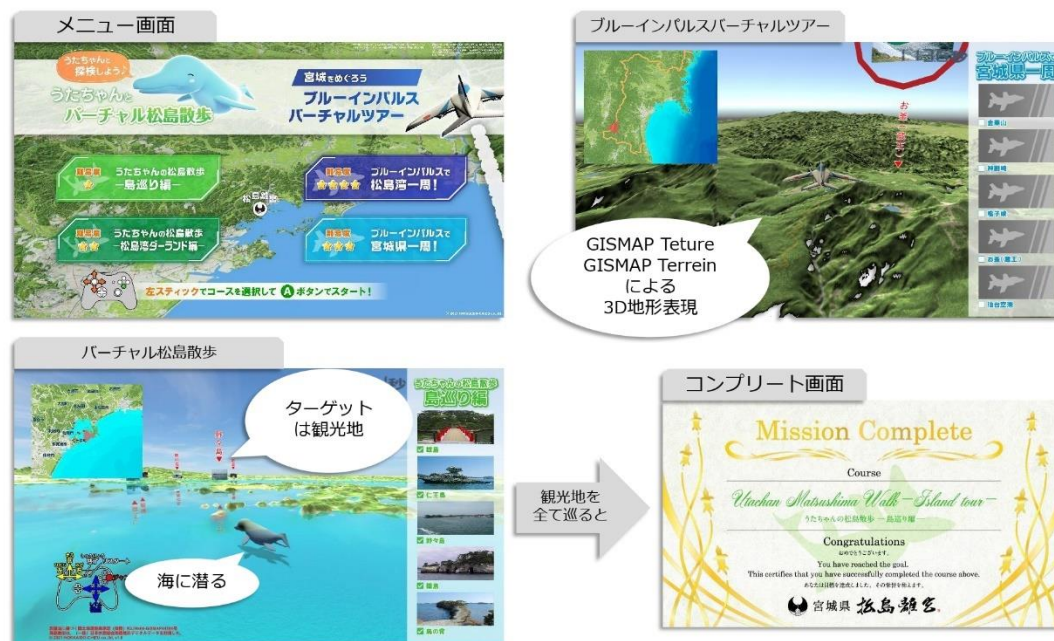




## DIGITAL PRODUCTS

### JPN\_DP1 Virtual walk in Matsushima / Virtual flight on Blue Impulse

Type	application
File format (10 words)	You Tube
Operating system	windows
License	other
Author(s)	Hokkaido-Chizu Co., Ltd.
Published by	Maruyama Co., Ltd.
Date of publication or most recent update	26th May 2021
Scale	none
Language(s) of the presentation	Japanese
Abstract/Description (in English or French; 100 words max)	<p>This is a virtual tour system to enjoy the well-known tourist destination Matsushima, including the whole Miyagi Prefecture. The 3D space created by Unity, is made up combining "GISMAP Texture", our designed map based on land uses, and "GISMAP Terrain", our 10m DEM data. Just like a game device, players ranging from children to adults can enjoy walking or flying through mountains and sea beds by this system.</p> <p><a href="https://www.youtube.com/watch?v=CuueFpXOM5s">https://www.youtube.com/watch?v=CuueFpXOM5s</a></p>

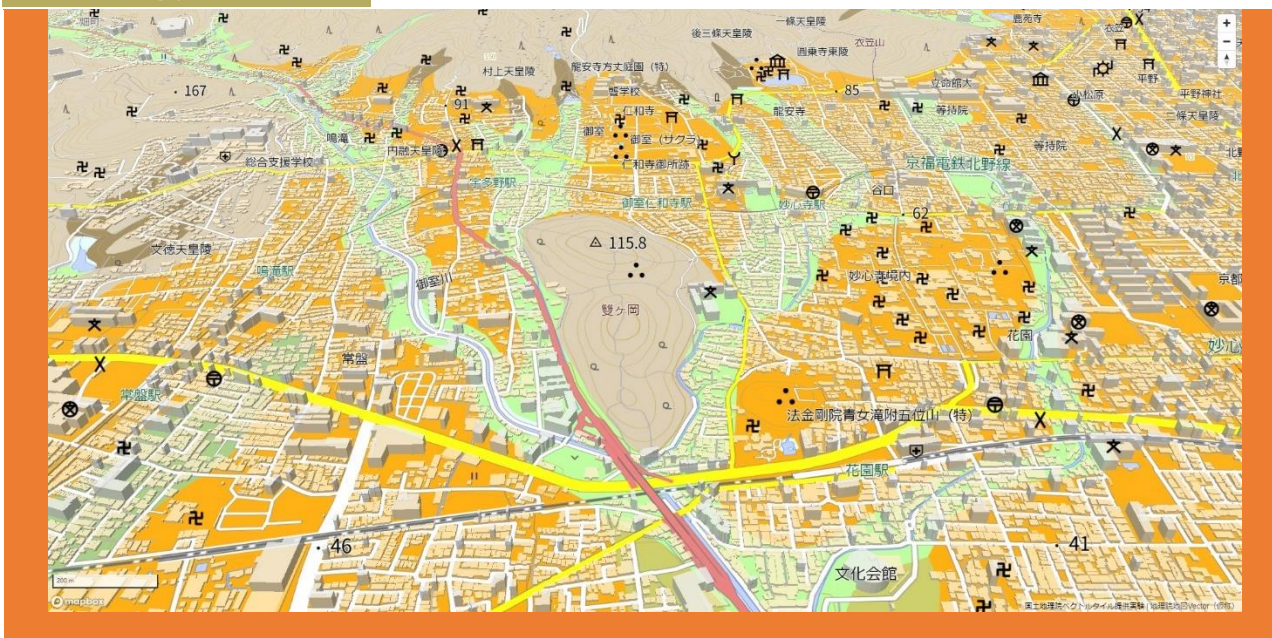


## DIGITAL SERVICES

### JPN\_DS1

### 3D landform classification web map with voice overlay

Type of service	Vector tiles
Format (10 words)	Vector tiles
Software platform	Mapbox GL JS
URL web link	<a href="https://optgeo.github.io/one-styled/">https://optgeo.github.io/one-styled/</a>
License	CC0 (Contains data from GSI)
Author(s)	Adopt Geodata project
Published by	Adopt Geodata project
Date of publication or most recent update	21st June 2021
Scale	none
Language(s) of the presentation	Japanese
Abstract/Description (in English or French; 100 words max)	Digital Japan Basic Map and Landform Classification Map (Physical Landform) in vector tiles, and Digital Elevation Model in elevation tiles, are integrated to provide 3D web maps. Landform classification legends are voice-overlaid on clicking the classified area. Geospatial Information Authority of Japan (GSI) developed this map as a part of Adopt Geodata project in contribution to the United Nations Vector Tile Toolkit (UNVT).



## OTHER CARTOGRAPHIC PRODUCTS

### JPN\_OC1 Picnic blanket 2 types (National flag, metropolitan area railway route map)

Author(s)	Tokyo Cartographic Co., Ltd.
Type	Plastic
Dimensions (mm)	900x60mm, 1,200x90mm
Published by	Tokyo Cartographic Co., Ltd.
Date of publication	Aug.2019
Language(s) of the product	Japanese
Abstract/Description (in English or French; 100 words max)	<p>Flag version: A colorful picnic blanket depicting the flags of 197 countries and the flags of the United Nations and the European Union. The country name and capital name are also displayed. The aspect ratio of the national flag is set to 2: 3. Size (package): W235 x H155 x D5 mm, size (unfolded): W900 x H600 mm.</p> <p>Railroad route map version: A picnic blanket of the railroad route map including JR lines, private railway lines, subways, and monorails around Tokyo. Size (package): W350 x H235 x D5 mm, size (unfolded): W1,200 x H900 mm</p>





## JPN\_OC2

## To make! Map BOOK

Author(s)	Tokyo Cartographic Co., Ltd.
Type	Paper
Dimensions (mm)	210 × 210mm
Published by	Tokyo Cartographic Co., Ltd.
Date of publication	April.2020
Language(s) of the product	Japanese

### Abstract/Description (in English or French; 100 words max)

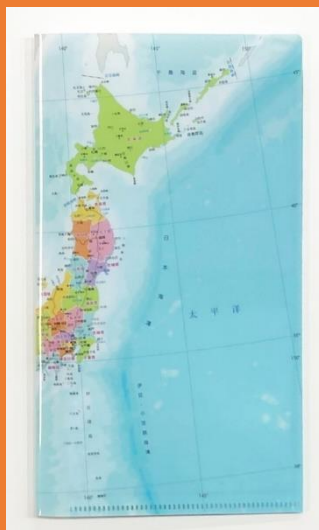
This book is a sticker book that has a map of prefectures printed on it and you can stick a food sticker on it. Children can learn casually while having fun. You can create your own map by writing place names, rivers, mountains, etc. You will acquire the ability to learn by yourself by thinking, remembering, and investigating the characteristics and specialties of each prefecture. Recommended for home study. 48 pages, accessories: 59 food stickers x 3 sheets = 177 stickers



## JPN\_OC3

## Mask Case 4 types

Author(s)	Tokyo Cartographic Co., Ltd.
Type	Plastic
Dimensions (mm)	115 × 205mm
Published by	Tokyo Cartographic Co., Ltd.
Date of publication	July 2021
Language(s) of the product	Japanese
Abstract/Description (in English or French; 100 words max)	<p>A double-pocket mask case that can store two masks. Antibacterial varnish is applied to the inside of the pocket. There are four types of designs: a detailed world map, a map of Japan, national flags of each country, and map symbols.</p> <p>World map: Includes a color-coded world map by country, a magnified map of Europe, an Arctic map, and an Antarctic map. Map of Japan: Includes color-coded maps of Japan for prefectures, maps of the Ogasawara Islands, and maps of the Nansei Islands. National flags: Contains national flags of 197 countries.</p> <p>Map symbols: Contains 91 types of map symbols.</p>



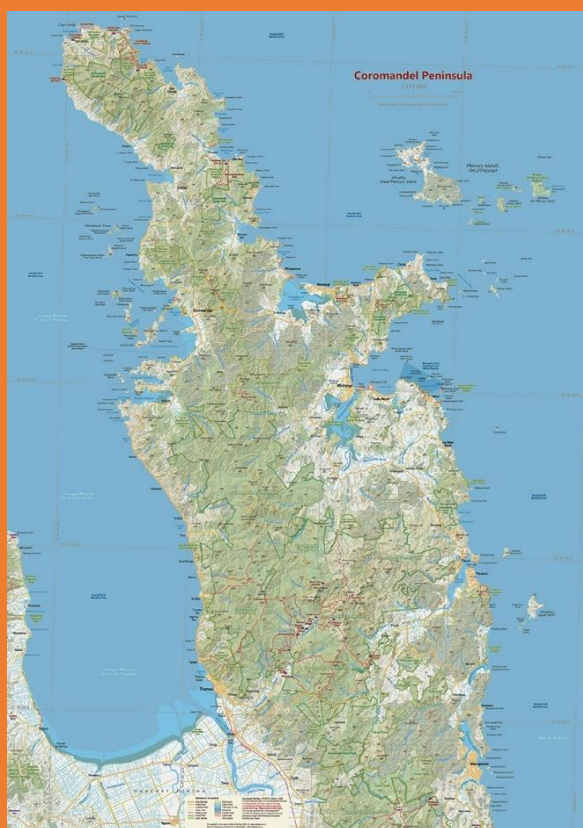




## NZL\_MP2

## Coromandel

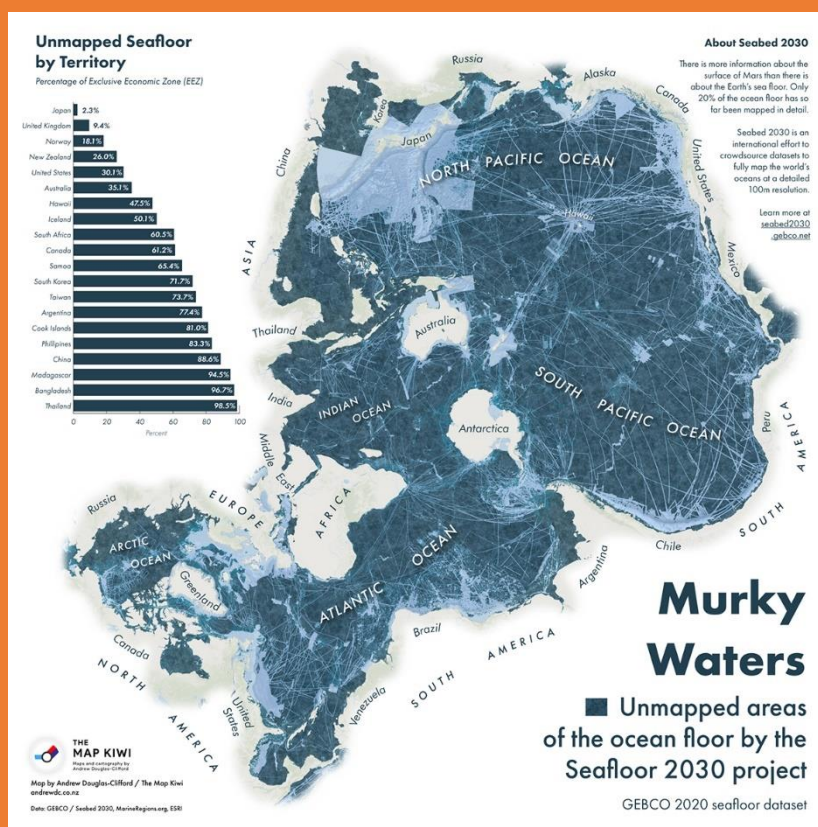
Type of material	Paper
Scale (if relevant)	1:110,000
Dimensions (mm)	600mm x 840mm
Author(s)	Geoff Aitken
Published by	NewTopo Mapping
Date of publication	July 2020
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	The Coromandel Peninsula is a holiday and recreation destination close to Auckland – New Zealand's largest city. The map shows the whole of the Peninsula with detail encouraging planning the exploitation of walking opportunities in the area. The map complements a larger scale two-sided map of the same area designed for field use.



## NZL\_MP3

## Murky Waters

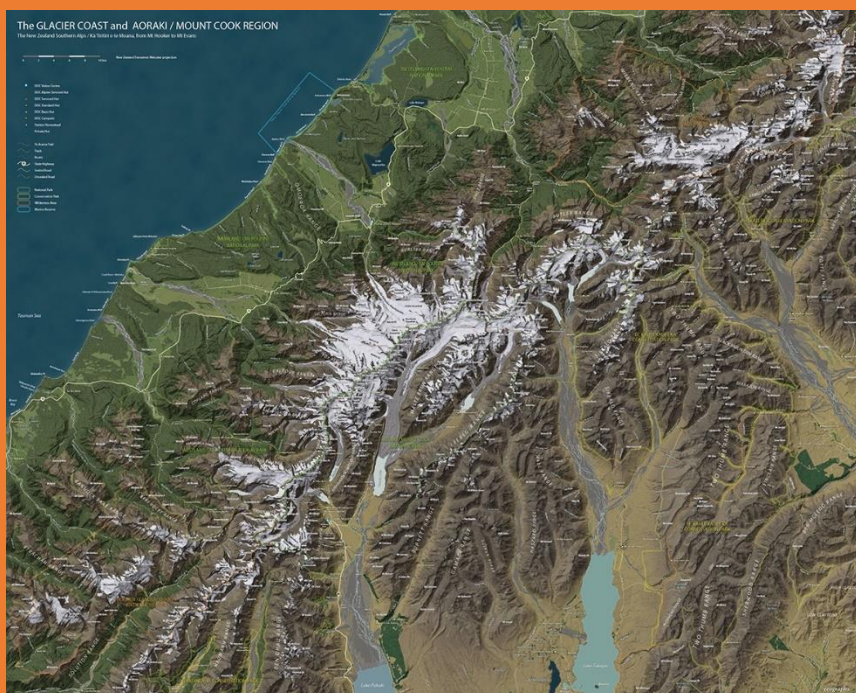
Type of material	Paper
Scale (if relevant)	Global (no consistent scale)
Dimensions (mm)	594mm x 594mm
Author(s)	Andrew Douglas-Clifford (the MapKiwi)
Published by	The Map Kiwi
Date of publication	November 2020
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	There is more information about the surface of Mars than there is about the Earth's sea floor. Only 20% of the Earth's seafloor has been mapped in detail. This map shows the areas that the Seabed 2030 project has yet to map as of November 2020. Seabed 2030 is an international effort to crowdsource datasets to fully map the world's oceans at a detailed 100m resolution.



## NZL\_MP4

## Glacier Coast- Aoraki/Mount Cook

Type of material	Paper
Scale (if relevant)	1:100,000
Dimensions (mm)	1125mm x 900mm
Author(s)	Roger Smith
Published by	Geographx
Date of publication	October 2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	A map of the area surrounding Aoraki/Mount Cook, New Zealand's highest mountain. Designed both for alpine recreation enthusiasts and itinerant visitors, the map shows clearly how the rain forests west of the divide contrast with drier tussocklands to the east. The Alpine Fault, one of only three places on earth where a tectonic plate boundary can be traced overland, runs parallel to (and between) the coastline and the main divide.





# NORWAY

## MAPS ON PANELS

### NOR\_MP1A

### Tourist map Steigen (front page)

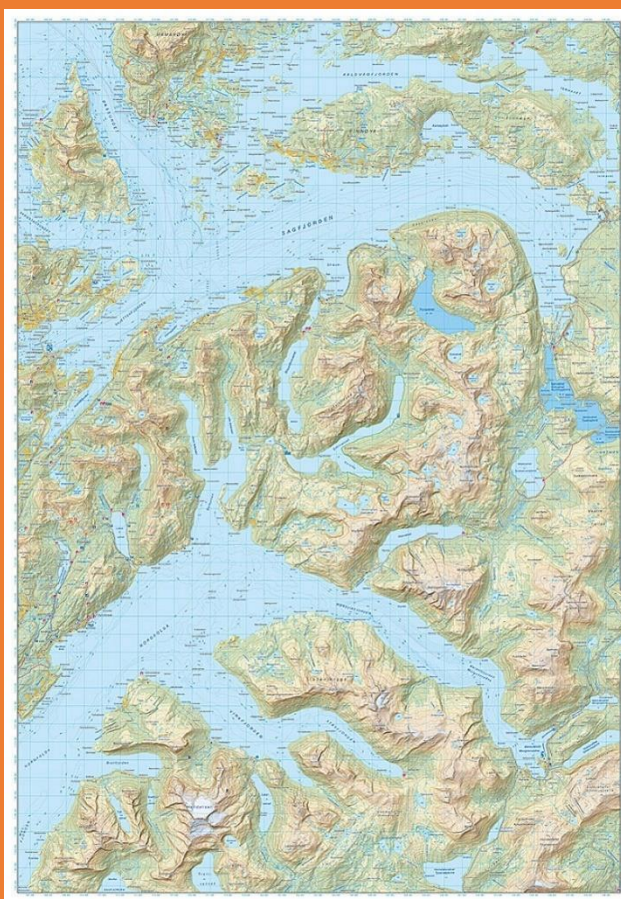
Type of material	Paper
Scale (if relevant)	1:50.000
Dimensions (mm)	700 x 1000 mm
Author	Tore Tønning, Mesterkart
Published by	Salten friluftsråd
Date of publication	August 2020
Language(s) of the legend	Norwegian and English
Abstract/Description (in English or French; 100 words max)	Tourist and hiking map of the Steigen area in northern Norway.



## NOR\_MP1B

### Tourist map Steigen (back page)

Type of material	Paper
Scale (if relevant)	1:50.000
Dimensions (mm)	700 x 1000 mm
Author	Tore Tønning, Mesterkart
Published by	Salten friluftsråd
Date of publication	August 2020
Language(s) of the legend	Norwegian and English
Abstract/Description (in English or French; 100 words max)	Tourist and hiking map of the Steigen area in northern Norway.



## NOR\_MP2

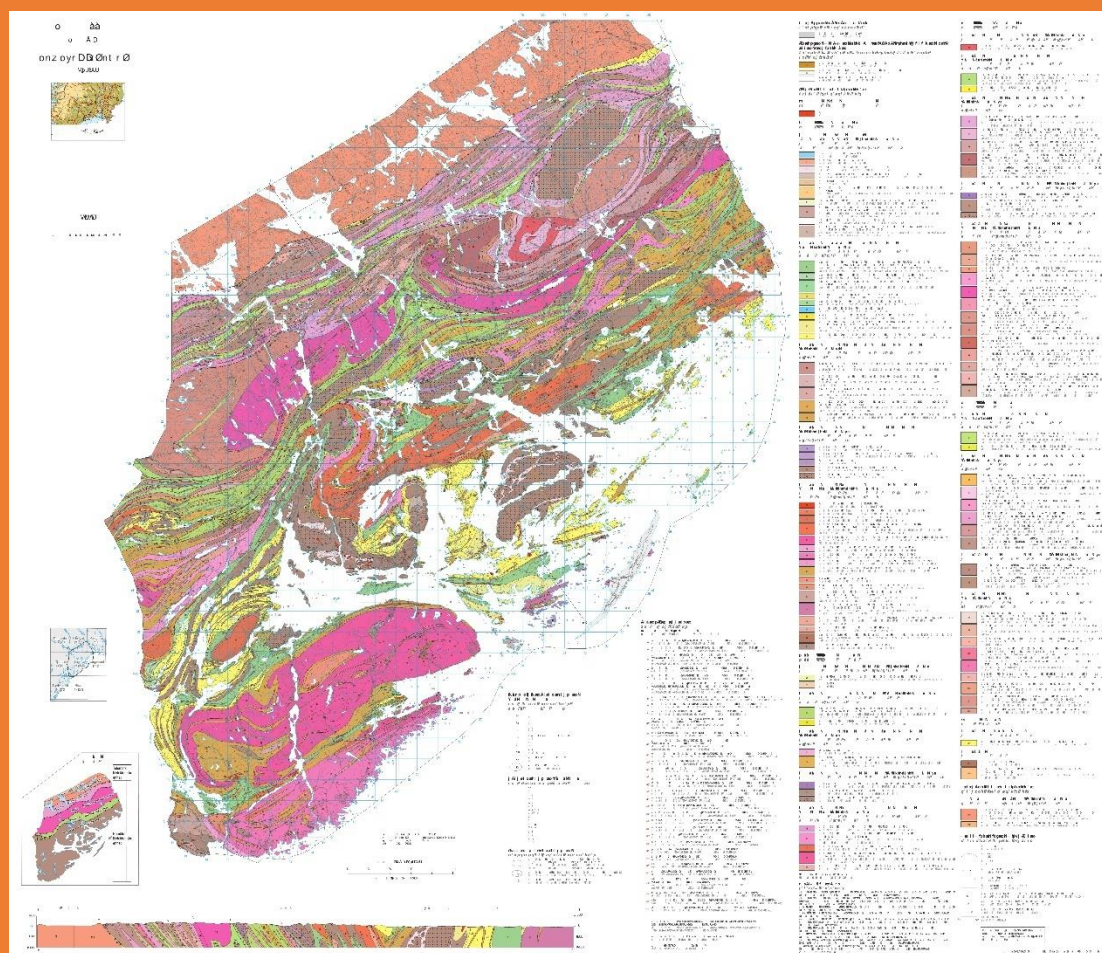
### Bedrock map Bamble - Kragerø

Type of material	Paper
Scale (if relevant)	1:50.000
Dimensions (mm)	1050 x 910 mm (w/h)
Authors	Marker, Solli, Slagstad, Bjerkgård and Gjelle
Published by	Norwegian Geological Survey
Date of publication	March, 2020
Language(s) of the legend	Norwegian and English



**Abstract/Description (in English or French; 100 words max)**

The geological map covers a classical Precambrian gneiss area in the Telemark region, which is an important part of the interproterozoic, c. 1200-1000-million-year-old Svekonorwegian mountain range in southern Scandinavia. The purpose of the project was to cover this area with modern, surface-covering geological mapping for use in research on the geological development in the region, and as a background for understanding the formation of the area's many geological resources. The rocks in the area include both transformed sedimentary and igneous rocks. The igneous rocks consist of both deep rocks and lava rocks.



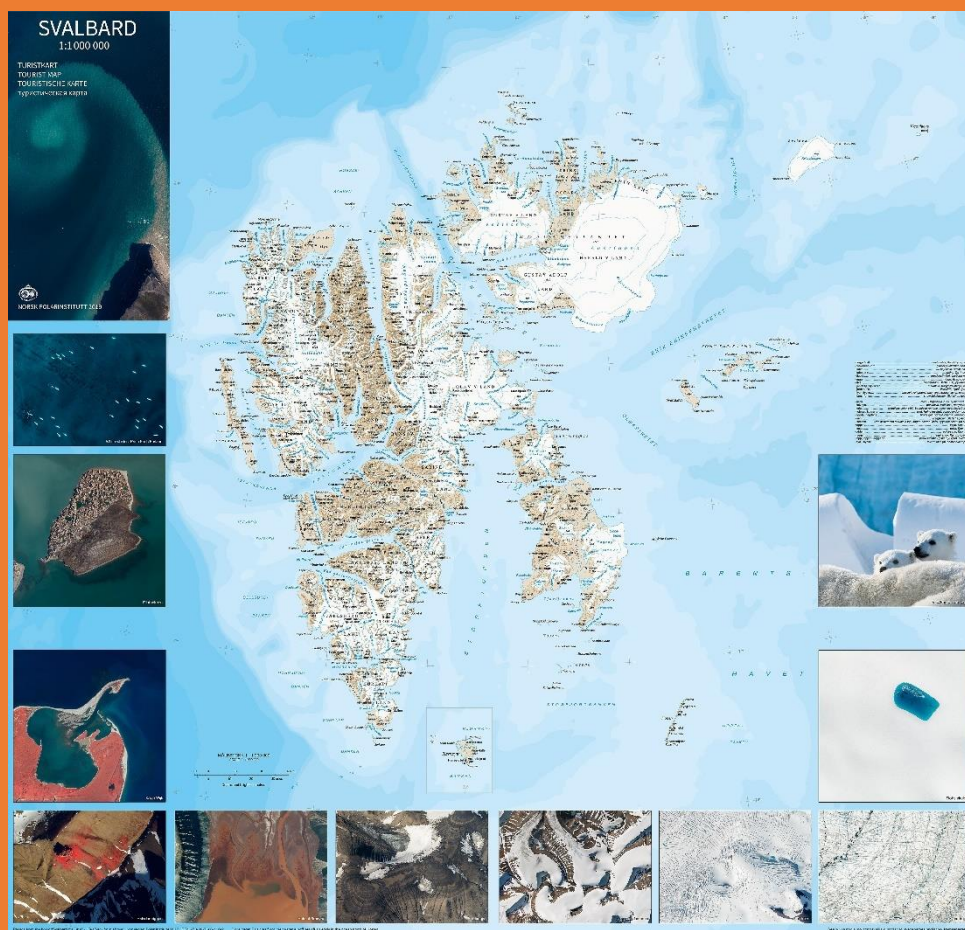
**NOR\_MP3A**

**Tourist map Svalbard, (front page)**

Type of material	Paper
Scale (if relevant)	1:1000.000
Dimensions (mm)	720 x 690 mm
Author	Anders Skoglund



<b>Published by</b>	Norwegian Polar Institute
<b>Date of publication</b>	December, 2019
<b>Language(s) of the legend</b>	Norwegian and English
<b>Abstract/Description (in English or French; 100 words max)</b>	Tourist map Svalbard is the Norwegian Polar Institute's updated and renewed version of the tourist map for Svalbard. The frame around the map shows a selection of photos from the book publication "Svalbard from the air" (npolar.no/nettbutikk).



<b>NOR_MP3B</b>	<i>Tourist map Svalbard, (back page)</i>
<b>Type of material</b>	Paper
<b>Scale (if relevant)</b>	Different map scales
<b>Dimensions (mm)</b>	720 x 690 mm
<b>Author</b>	Anders Skoglund
<b>Published by</b>	Norwegian Polar Institute
<b>Date of publication</b>	December, 2019
<b>Language(s) of the legend</b>	Norwegian and English

**Abstract/Description (in English or French; 100 words max)**

The print on the back, consisting of orthophoto sections of the largest settlements, as well as 3D maps of the archipelago and the Longyearbyen area.



## NOR\_MP4

## Topographic map C13 – Sørkapp, Spitsbergen

Type of material	Paper
Scale (if relevant)	1:100.000
Dimensions (mm)	570 x 700 mm
Author	Anders Skoglund
Published by	Norwegian Polar Institute
Date of publication	December, 2020
Language(s) of the legend	Norwegian and English
Abstract/Description (in English or French; 100 words max)	C13-Sørkapp is one of the Norwegian Polar Institute's six updated map sheets in the main map series for Svalbard in 2020. The Norwegian Polar Institute is Norway's main



producer of topographic and geological maps in Norway polar regions and is primarily responsible for the topographical mapping of Svalbard, Jan Mayen and those Norwegian "biland" and territorial claims in Antarctica.



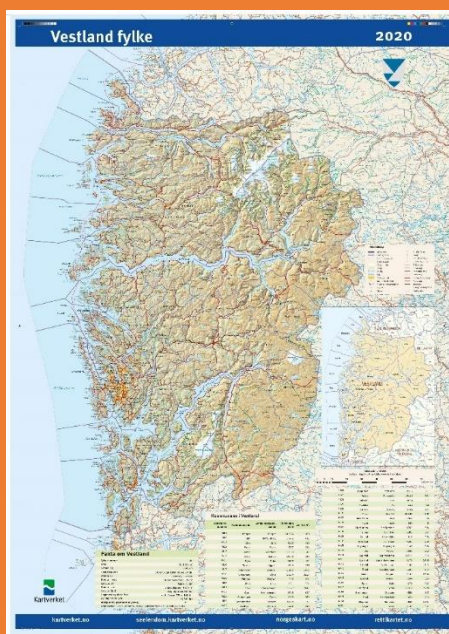
## NOR\_MP5

### Topographic map Vestland county

Type of material	Paper
Scale (if relevant)	1:400.000
Dimensions (mm)	800 x 960 mm
Author	per.olav.kaasa@kartverket.no
Published by	The Norwegian Mapping Authority, Land division
Date of publication	October 2019
Language(s) of the legend	Norwegian
Abstract/Description (in English or French; 100 words max)	Vestland county is one of 11 map sheets that are part of the paper map series County Map 2020. The county map series was produced in the autumn of 2019, as a result of municipal and regional reform that was implemented in Norway at the



turn of the year 2019/2020. The county maps have not previously been published as a nationwide series. The content of the maps is from N500 Map Data. The maps are intended to function as an overview map/wall map, so the maps are made for printing. The geographical extent is different in the different counties, and they are adapted to different paper formats. The scales are therefore different on the different county maps. The Norwegian Mapping Authority does not have the county maps in stock, but they can be ordered through our Print on Demand (POD) dealers. Overview of the Mapping Authority's POD dealers: <https://www.kartverket.no/sider/bestille-kart>

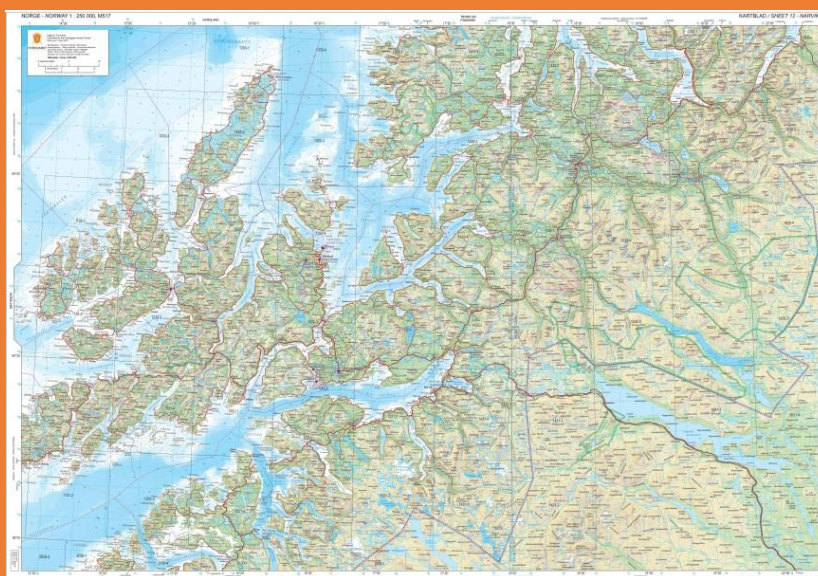


## NOR\_MP6

### Road Map sheet 12 – Narvik / M517

Type of material	Paper
Scale (if relevant)	1:250.000
Dimensions (mm)	1000 x 700 mm
Author	per.olav.kaasa@kartverket.no
Published by	The Norwegian Mapping Authority, Land division
Date of publication	October 2019
Language(s) of the legend	Norwegian
Abstract/Description (in English or French; 100 words max)	Vestland county is one of 11 map sheets that are part of the paper map series County Map 2020. The county map series was produced in the autumn of 2019, as a result of municipal and regional reform that was implemented in Norway at the

turn of the year 2019/2020. The county maps have not previously been published as a nationwide series. The content of the maps is from N500 Map Data. The maps are intended to function as an overview map/wall map, so the maps are made for printing. The geographical extent is different in the different counties, and they are adapted to different paper formats. The scales are therefore different on the different county maps. The Norwegian Mapping Authority does not have the county maps in stock, but they can be ordered through our Print on Demand (POD) dealers. Overview of the Mapping Authority's POD dealers: <https://www.kartverket.no/sider/bestille-kart>



## NOR\_MP7

### Topographic map Trøndelag county

Type of material	Paper
Scale (if relevant)	1:400.000
Dimensions (mm)	850 x 900 mm
Author	agnar@emap.no
Published by	eMap as
Date of publication	2020
Language(s) of the legend	Norwegian
Abstract/Description (in English or French; 100 words max)	<p>The map is produced as an easy-to-read map, without too much details and text. The intended function of the map is that it should hang on the wall in offices and other places where this is relevant and have as much decorative function as a utility function.</p> <p>With new municipal coats of arms, we have chosen to fill in the blanks with an alphabetical overview of the municipalities and their municipal coats of arms.</p>

The map is produced in Illustrator, Photoshop and InDesign and is available via Print on Demand ([www.podkart.no](http://www.podkart.no)) at "Blink Print og Design".

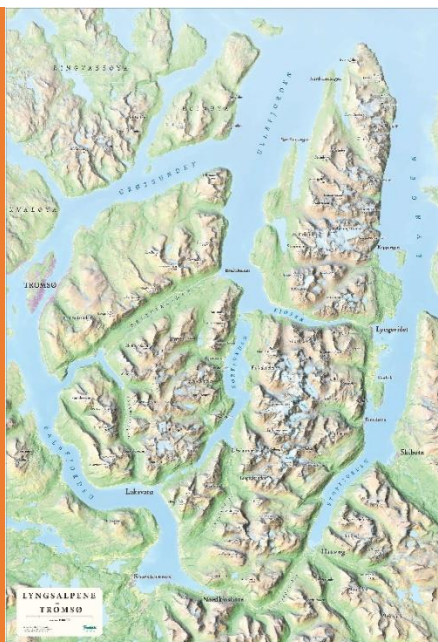


## NOR\_MP8

### Topographic map Lyngsalpene - Tromsø

Type of material	Paper
Scale (if relevant)	1:100.000
Dimensions (mm)	680 x 980 mm
Author	agnar@emap.no
Published by	eMap as
Date of publication	2021
Language(s) of the legend	Norwegian
Abstract/Description (in English or French; 100 words max)	<p>The map is produced as an easy-to-read map, without too many details and text. The intended function of the map is that it should hang on the wall in offices and other places where this is relevant and have as much decorative function as a utility function.</p> <p>The map is produced in Illustrator, Photoshop and InDesign and is available via Print on Demand (<a href="http://www.podkart.no">www.podkart.no</a>) at "Blink Print og Design".</p>

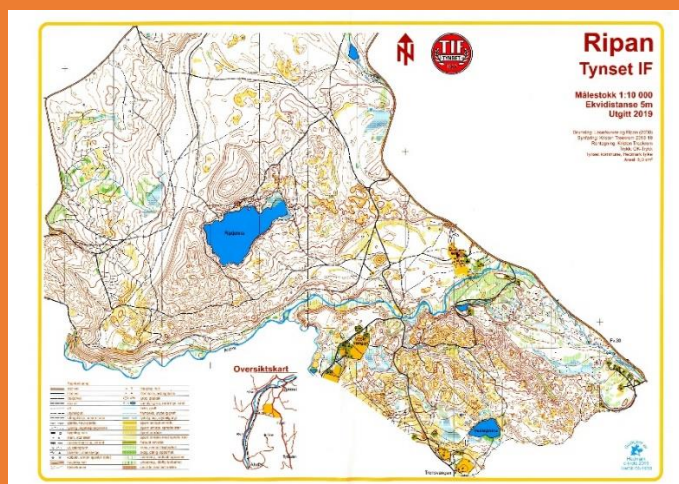




## NOR\_MP9

## Orienteering map Ripan

Type of material	Paper
Scale (if relevant)	1:10.000
Dimensions (mm)	400 x 296 mm
Author	Kristen Treekrem
Published by	Tynset municipality
Date of publication	August 2019
Language of the legend	Norwegian
Abstract/Description (in English or French; 100 words max)	Orienteering map on a large glaciofluvial delta.



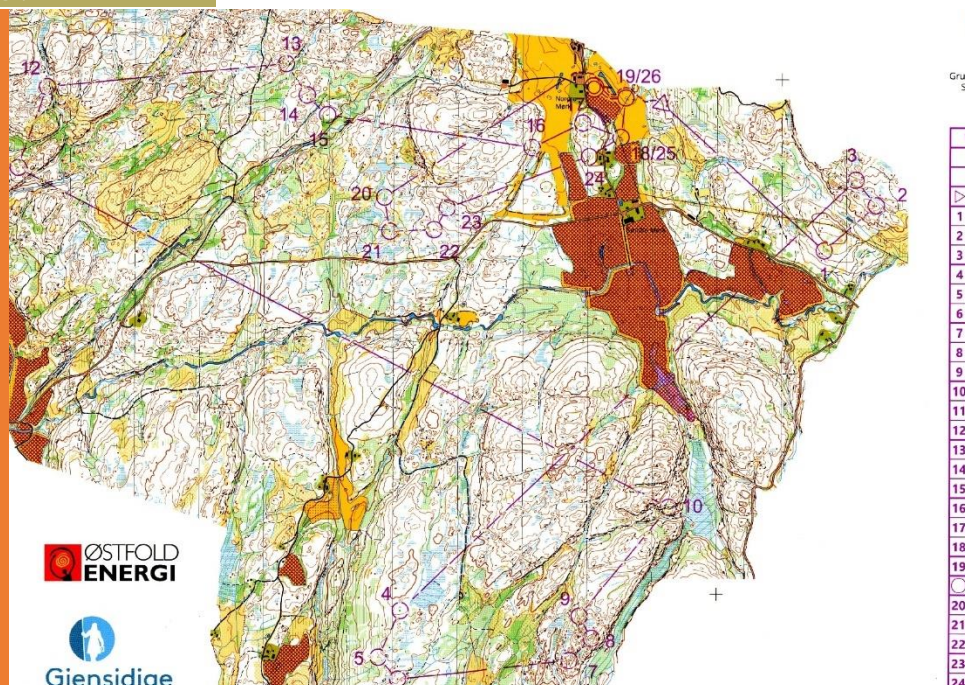
## NOR\_MP10

## Orienteering map Ringkollen

Type of material	Paper
Scale (if relevant)	1:10.000
Dimensions (mm)	380 x 320 mm
Author	Leif Roger Hultgreen
Published by	Ringerike Orienteringslag
Date of publication	March 2020
Language of the legend	Norwegian
Abstract/Description (in English or French; 100 words max)	Orienteering map.



<b>NOR_MP11</b>	<b><i>Orienteering map Mørk langdistanse (longdistance)</i></b>
Type of material	Paper
Scale (if relevant)	1:15.000
Dimensions (mm)	410 x 300 mm
Author	Kristen Treekrem
Published by	Østfold county
Date of publication	August 2019
Language of the legend	Norwegian
Abstract/Description (in English or French; 100 words max)	Orienteering map for the Nokian Tyres World Orienteering Championships (WOC), Østfold Norway 2019.



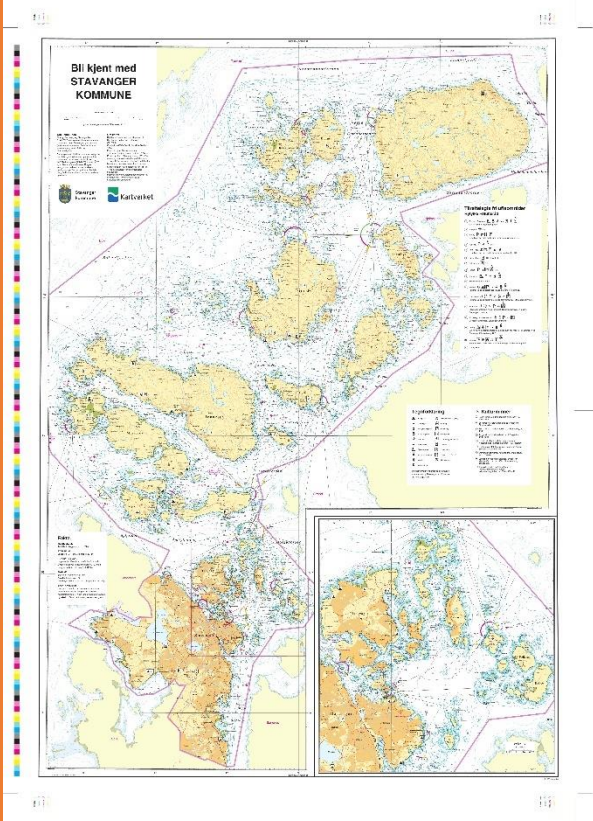
## CHARTS ON PANELS

### NOR\_CP1A

Bli kjent med Stavanger kommune (front page)  
«Get to know Stavanger municipality» map

Type of material	Paper
Scale (if relevant)	1:50.000
Dimensions (mm)	700 mm x 1000 mm
Author	kjetil.wirak@kartverket.no
Published by	Kartverket, Norwegian Hydrographic service
Date of publication	2020
Language(s) of the legend	Norwegian
Abstract/Description (in English or French; 100 words max)	On 1 January 2020, Stavanger municipality became a vast municipality with many islands. It was important to make a map so that the inhabitants could see this clearly for themselves - all the 37 inhabited islands in the municipality. It ended up with a Get to know Stavanger municipality map. The map is aimed at use in the school - and will be distributed to all 5th graders in the municipality. The front side of the map has a scale of 1:50 000. Some chart information are removed - so this is not a navigation chart. There is added information about hiking trails, cultural monuments and places worth visiting.





## NOR\_CP1B

### *Bli kjent med Stavanger kommune (back page) «Get to know Stavanger municipality» map*

Type of material	Paper
Scale (if relevant)	1:50.000
Dimensions (mm)	700 mm x 1000 mm
Author	Illustrator Egil Bjørøen, Stavanger municipality
Published by	Kartverket, Norwegian Hydrographic service
Date of publication	2020
Language of the legend	Norwegian
Abstract/Description (in English or French; 100 words max)	After the merger on 1 January, Stavanger municipality had 143.574 inhabitants. The highest point in the municipality is Bandåsen with its 514 meters asl. On the back side of the map, Stavanger municipality's skilled illustrator Egil Bjørøen has hand-drawn the municipality - with all islands and countries. He has added many drawings and facts and in addition, you can try your hand at four fun, but difficult puzzles. The answers can be checked at: <a href="https://www.stavanger.kommune.no/blikjent/">https://www.stavanger.kommune.no/blikjent/</a>

The map will be distributed to all the municipality's 1806 11-year-olds and will also be available at the municipality's service office.

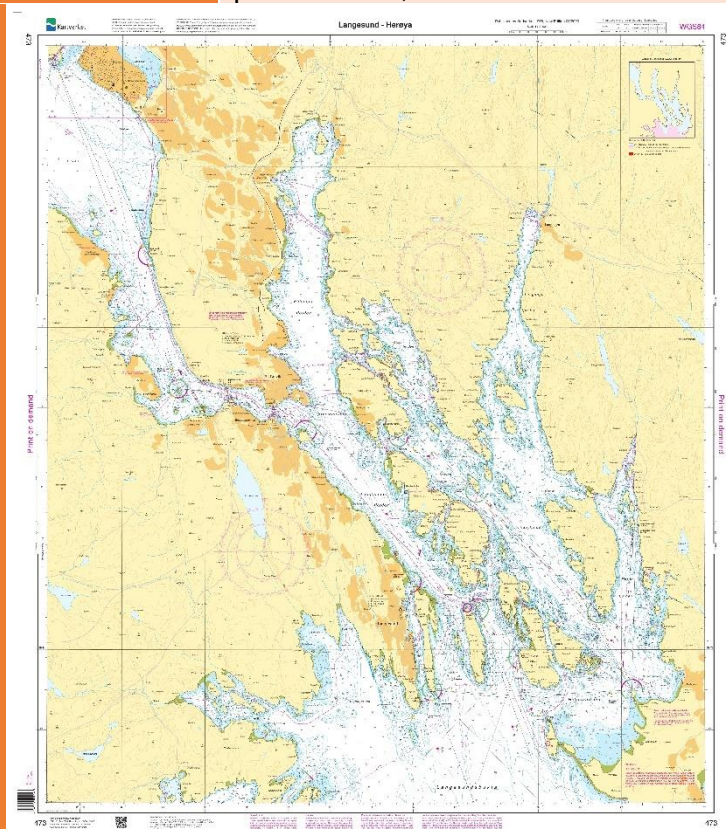


## NOR\_CP2

### Harbor Chart no 473 Langesund - Herøya

Type of material	Paper (Print on Demand)
Scale (if relevant)	1:20.000
Dimensions (mm)	830 mm x 950 mm
Author	kjetil.wirak@kartverket.no
Published by	Kartverket, Norwegian Hydrographic service
Date of publication	New edition 21 August 2020
Language(s) of the legend	Norwegian and English
Abstract/Description (in English or French; 100 words max)	The harbor map series consists of 45 charts that cover harbors and entrances along the Norwegian coast. Chart no. 473 Langesund – Herøya is not printed but can be purchased as POD map. Important changes in this edition; new sea level measurement for almost the entire map. The country information has been replaced. Some sector lights are shielded to the IALA system. The map has been updated regarding all reported changes since edition, and other changes that have not been reported in Intelligence for seafarers (Efs). These can be new measurements to a

greater or lesser degree, new quays, piers, changes of place names, etc.



## DIGITAL SERVICES

### NOR\_DS1

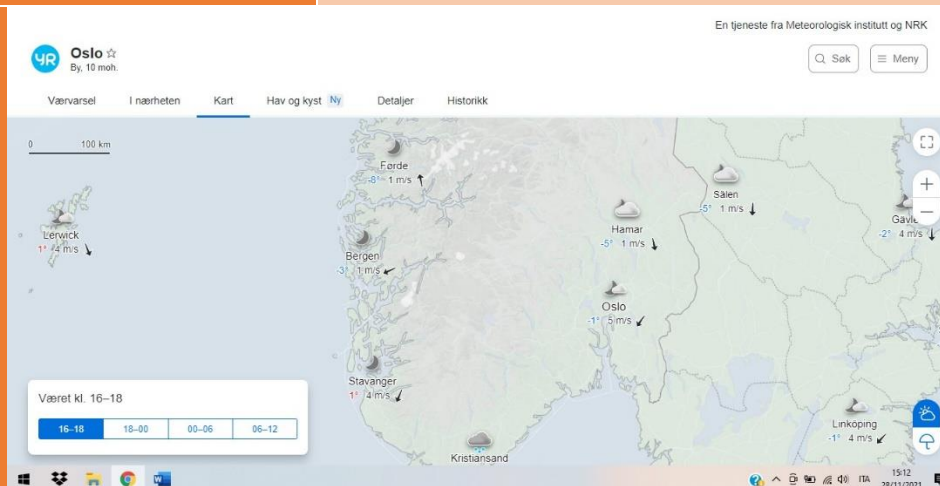
*New maps on [www.yr.no](http://www.yr.no)*

Type of service	Weather forecast
Format (10 words)	-
Software platform	Web-browsers and apps for iOS and Android
URL web link	<a href="https://www.yr.no/nb/kart/v%C3%A6r/1-72837/Norge/Oslo/Oslo/Oslo">https://www.yr.no/nb/kart/v%C3%A6r/1-72837/Norge/Oslo/Oslo/Oslo</a>
License	Open
Author(s)	-
Published by	Norwegian Meteorological Institute and Norwegian Broadcasting Corporation (NRK)
Date of publication or most recent update	First published Dec 2020. Frequently updated.
Scale	Variable Scale
Language of the presentation	Norwegian
Abstract/Description (in English or French; 100 words max)	Yr - a weather service provided by the Norwegian Meteorological Institute and NRK.



<https://www.yr.no/nb/kart/v%C3%A6r/1-72837/Norge/Oslo/Oslo/Oslo>

Central to the new weather map has been to give users a good impression of the weather in an area by to highlight places that are more exposed to the weather than others. The map is connected to Yr's place name database containing nearly 13 million locations around the world. With the new maps on Yr, we want to enable the public to make even better weather choices because they provide an overview of the weather in the immediate area and not just the point you are at.



# POLAND

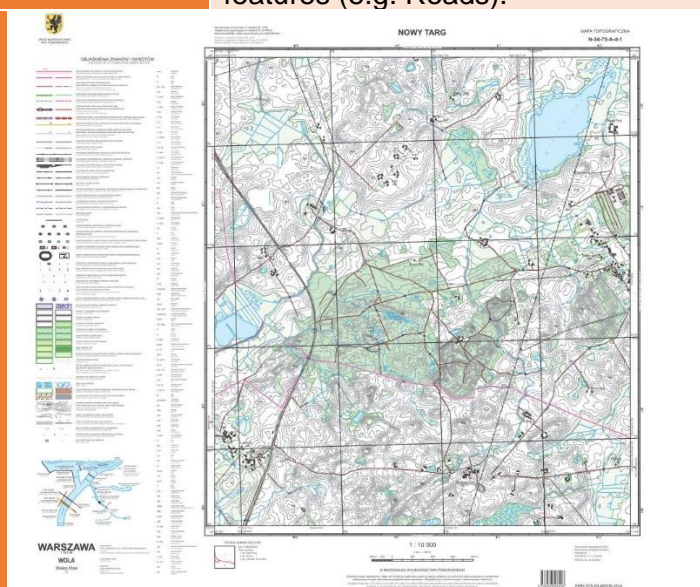
## MAPS ON PANELS

### POL\_MP1 *Polish Topographic Map, sheet Nowy Targ (N-34-75-A-d-1)*

Type of material	paper
Scale (if relevant)	1:10,000
Dimensions (mm)	700 x 500
Author(s)	ErgoGIS Sp. z o.o. Koszalin
Published by	Marshal's Office Pomerania Voivodeship, Poland
Date of publication	2020
Language(s) of the legend	Polish, English

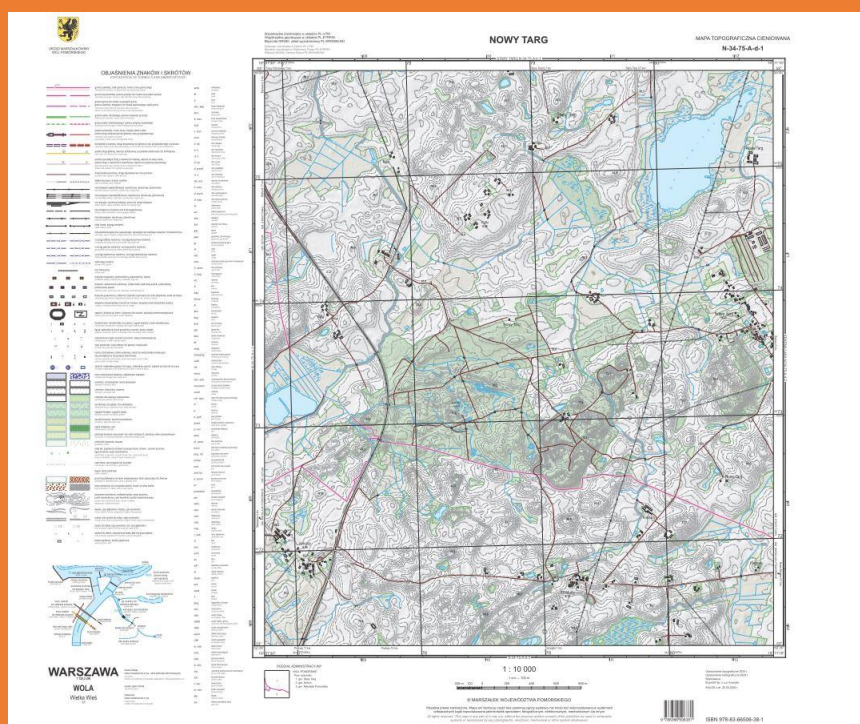
#### Abstract/Description (in English or French; 100 words max)

The main data source for the creation of civil topographic map of scale 1 : 10 000 is the Database of Topographic Objects (BDOT10k) which level of detail is corresponding to these maps. The other data source is the State Register of Geographic Names (PRNG) and the Digital Terrain Model (DTM), acquired with the use of the laser scanning technology, of the accuracy of at least 4 points per 1 sq.m. Significant changes in the current maps include the unification of editorial principles and cartographic symbols along with classification criteria changes for some of the features (e.g. Roads).



## POL\_MP2 Polish Topographic Map, sheet Nowy Targ (N-34-75-A-d-1)

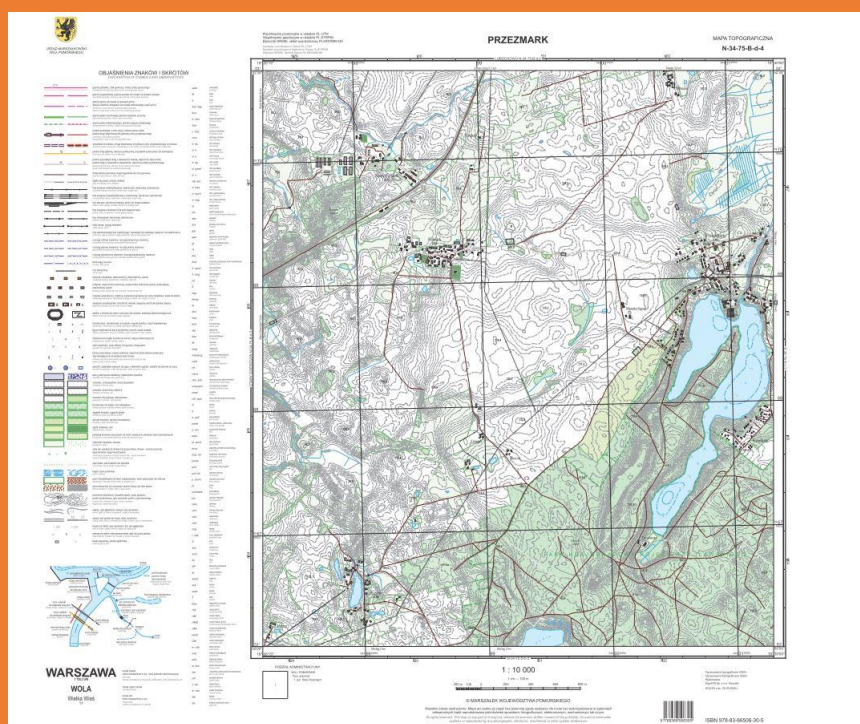
Type of material	Paper (with hillshading)
Scale (if relevant)	1:10,000
Dimensions (mm)	700 x 500
Author(s)	ErgoGIS Sp. z o.o. Koszalin
Published by	Marshal's Office Pomerania Voivodeship, Poland
Date of publication	2020
Language(s) of the legend	Polish, English
Abstract/Description (in English or French; 100 words max)	The main data source for the creation of civil topographic map of scale 1 : 10 000 is the Database of Topographic Objects (BDOT10k) which level of detail is corresponding to these maps. The other data source is the State Register of Geographic Names (PRNG) and the Digital Terrain Model (DTM), acquired with the use of the laser scanning technology, of the accuracy of at least 4 points per 1 sq.m. Significant changes in the current maps include the unification of editorial principles and cartographic symbols along with classification criteria changes for some of the features (e.g. Roads).





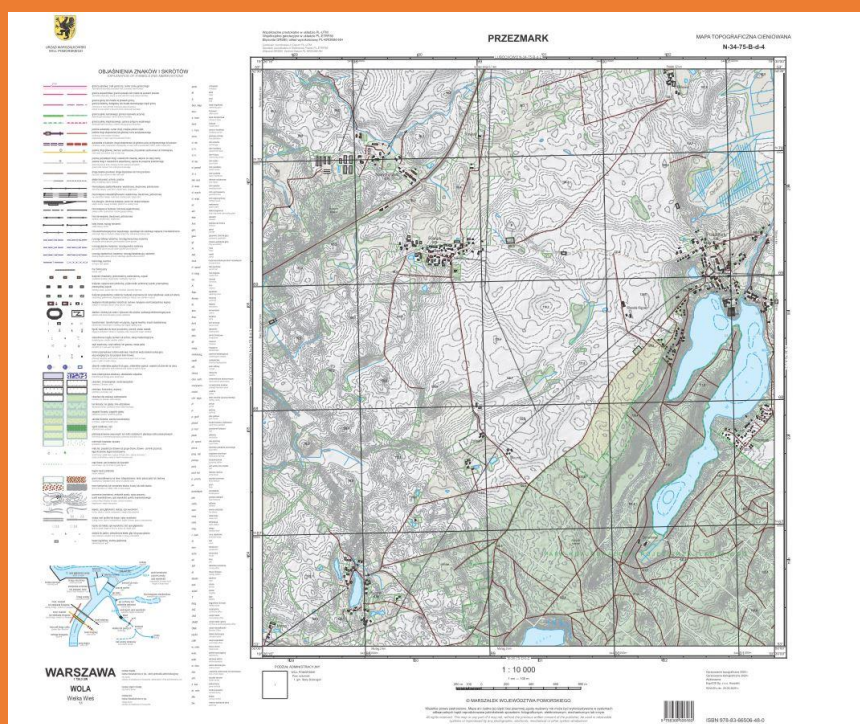
**POL\_MP3** *Polish Topographic Map, sheet Przezmark (N-34-75-B-d-4)*

Type of material	Paper
Scale (if relevant)	1:10,000
Dimensions (mm)	700 x 500
Author(s)	ErgoGIS Sp. z o.o. Koszalin
Published by	Marshal's Office Pomerania Voivodeship, Poland
Date of publication	2020
Language(s) of the legend	Polish, English
Abstract/Description (in English or French; 100 words max)	The main data source for the creation of civil topographic map of scale 1 : 10 000 is the Database of Topographic Objects (BDOT10k) which level of detail is corresponding to these maps. The other data source is the State Register of Geographic Names (PRNG) and the Digital Terrain Model (DTM), acquired with the use of the laser scanning technology, of the accuracy of at least 4 points per 1 sq.m. Significant changes in the current maps include the unification of editorial principles and cartographic symbols along with classification criteria changes for some of the features (e.g. Roads).



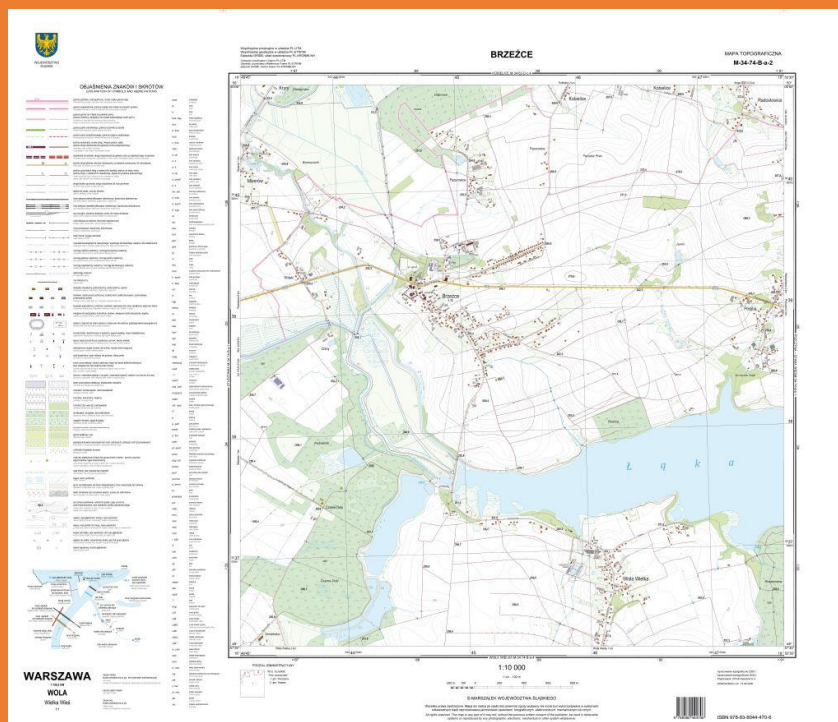
**POL\_MP4** *Polish Topographic Map, sheet Przezmark (N-34-75-B-d-4)*

Type of material	Paper (with hillshading)
Scale (if relevant)	1:10,000
Dimensions (mm)	700 x 500
Author(s)	ErgoGIS Sp. z o.o. Koszalin
Published by	Marshal's Office Pomerania Voivodeship, Poland
Date of publication	2020
Language(s) of the legend	Polish, English
Abstract/Description (in English or French; 100 words max)	The main data source for the creation of civil topographic map of scale 1 : 10 000 is the Database of Topographic Objects (BDOT10k) which level of detail is corresponding to these maps. The other data source is the State Register of Geographic Names (PRNG) and the Digital Terrain Model (DTM), acquired with the use of the laser scanning technology, of the accuracy of at least 4 points per 1 sq.m. Significant changes in the current maps include the unification of editorial principles and cartographic symbols along with classification criteria changes for some of the features (e.g. Roads).



## POL\_MP5 *Polish Topographic Map, sheet Brzeźce (M-34-74-B-a-2)*

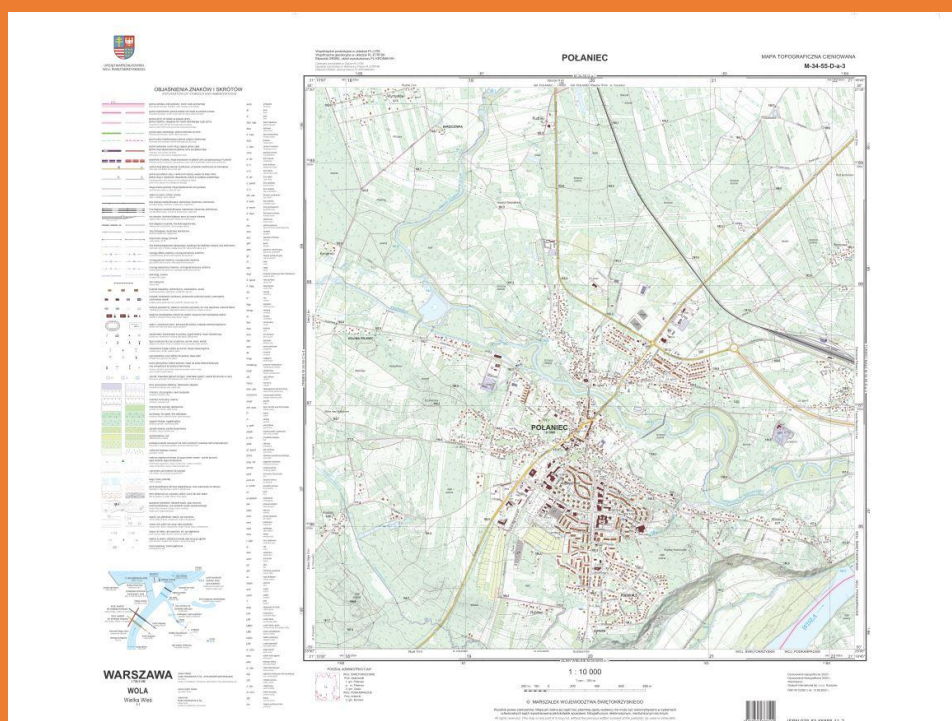
Type of material	Paper
Scale (if relevant)	1:10,000
Dimensions (mm)	700 x 600
Author(s)	OPGK Rzeszów S.A.
Published by	Marshal's Office Silesian Voivodeship, Poland
Date of publication	2020
Language(s) of the legend	Polish, English
Abstract/Description (in English or French; 100 words max)	The main data source for the creation of civil topographic map of scale 1 : 10 000 is the Database of Topographic Objects (BDOT10k) which level of detail is corresponding to these maps. The other data source is the State Register of Geographic Names (PRNG) and the Digital Terrain Model (DTM), acquired with the use of the laser scanning technology, of the accuracy of at least 4 points per 1 sq.m. Significant changes in the current maps include the unification of editorial principles and cartographic symbols along with classification criteria changes for some of the features (e.g. Roads).





**POL\_MP6** *Polish Topographic Map, sheet Połaniec (M-34-55-D-a-3)*

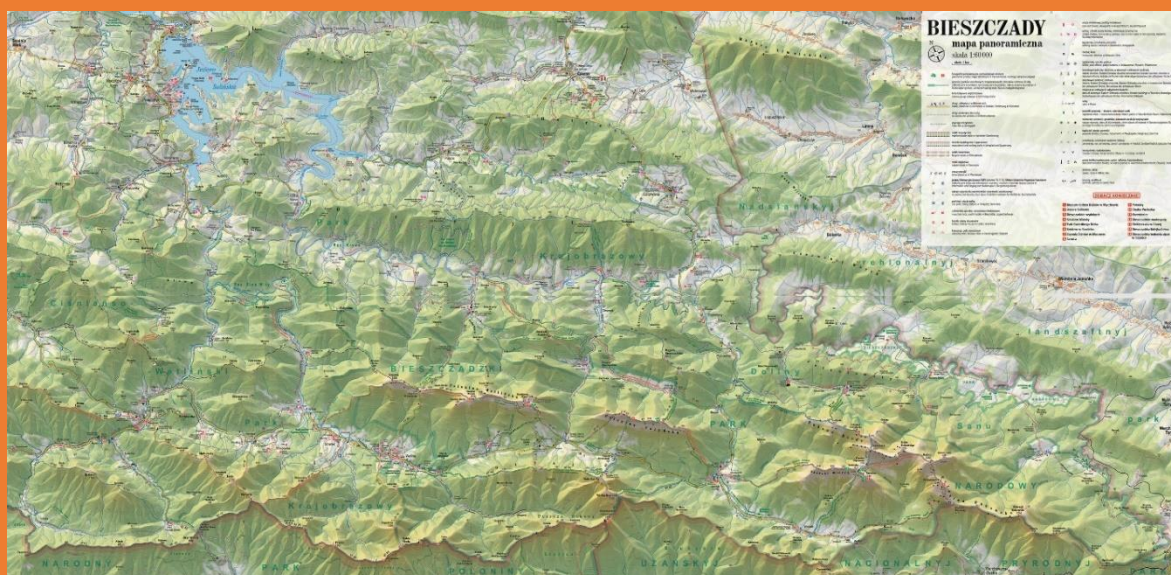
Type of material	Paper
Scale (if relevant)	1:10,000
Dimensions (mm)	800 x 600
Author(s)	Geokart-International Sp. z o.o. Rzeszów
Published by	Marshal's Office Świętokrzyskie Voivodeship, Poland
Date of publication	2020
Language(s) of the legend	Polish, English
Abstract/Description (in English or French; 100 words max)	The main data source for the creation of civil topographic map of scale 1 : 10 000 is the Database of Topographic Objects (BDOT10k) which level of detail is corresponding to these maps. The other data source is the State Register of Geographic Names (PRNG) and the Digital Terrain Model (DTM), acquired with the use of the laser scanning technology, of the accuracy of at least 4 points per 1 sq.m. Significant changes in the current maps include the unification of editorial principles and cartographic symbols along with classification criteria changes for some of the features (e.g. Roads).



## POL\_MP7

### Bieszczady Mountains: Panoramic map

Type of material	paper (laminate)
Scale (if relevant)	1:60,000
Dimensions (mm)	1100 x 490
Author(s)	collective work
Published by	Expressmap Polska Sp. z o.o.
Date of publication	2020
Language(s) of the legend	English, German, Polish
Abstract/Description (in English or French; 100 words max)	It is a unique publication, in which a panoramic projection was used to present the topography, which in combination with shading gave an extremely realistic spatial effect resembling a bird's eye view of the mountains. At the same time the map presents all the elements necessary for a tourist. On the back of the map, there are panoramic photographs of the most beautiful Bieszczady landscapes with descriptions of the summits. Points from which the photographs were taken were marked on the map. The photographs are accompanied by descriptions of the most attractive places in the region.



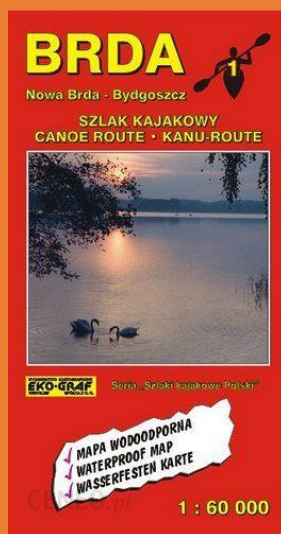
## POL\_MP8

### Brda river: Canoe Route

Type of material	paper
Scale (if relevant)	1:60,000
Dimensions (mm)	225 x 975
Author(s)	collective work
Published by	Wydawnictwo Kartograficzne Eko-Graf, sp. z o.o.
Date of publication	2020/2021
Language(s) of the legend	English, German, Polish

**Abstract/Description (in English or French; 100 words max)**

A detailed map of the canoe trail on the Brda River, irreplaceable during canoeing trips. The map has been printed on synthetic polyart paper. It is resistant to water and tarnishing (except for mechanical damage). The map contains information about more difficult sections of the route, a bibliography list and a tourist guide.

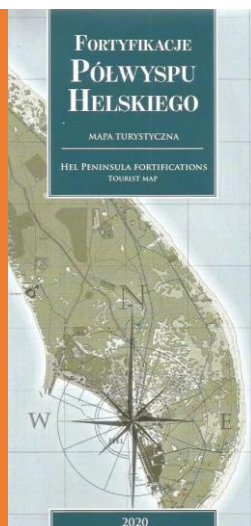


**POL\_MP9**

**Fortifications of Hel Peninsula. Tourist map**

Type of material	paper
Scale (if relevant)	1:15,000 and 1:20,000
Dimensions (mm)	480 x 680
Author(s)	collective work
Published by	Casamata
Date of publication	2020
Language(s) of the legend	English, Polish
Abstract/Description (in English or French; 100 words max)	The fortifications of Hel Peninsula are one of the most interesting complexes of fortifications in Poland created before, during and after WWII. The map is the result of many years of research and presents the most up-to-date picture of the defensive architecture of Hel Peninsula. Finding the most interesting objects is made easier by the marked tourist-military routes.

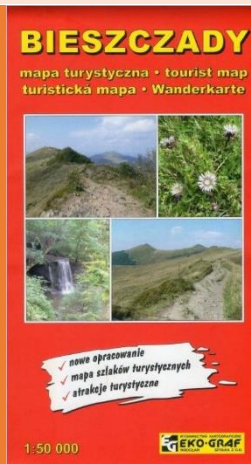




## POL\_MP10

### Bieszczady. Tourist map

Type of material	paper
Scale (if relevant)	1:50,000
Dimensions (mm)	670 x 980
Author(s)	collective work
Published by	Wydawnictwo Kartograficzne Eko-Graf, sp. z o.o.
Date of publication	2020
Language(s) of the legend	English, German, Polish, Slovak
Abstract/Description (in English or French; 100 words max)	A double-sided tourist map of Bieszczady mountains in 1:50,000 scale covering the area from Zagórz in the north and west to the southernmost point of Poland. The relief is shown by contour lines and hillshading. Additionally, on the second page there is a map of the trails with crossing times and short information about the Bieszczady National Park.

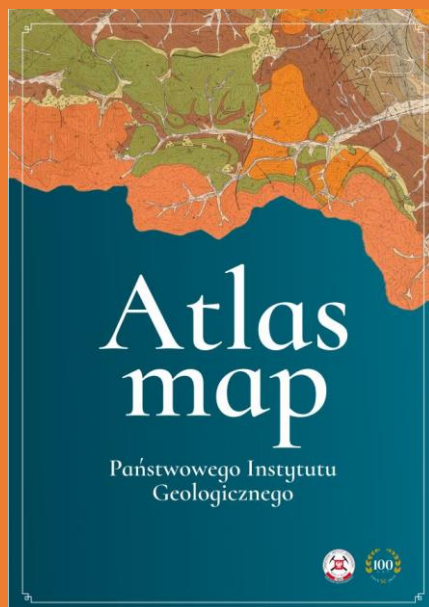


## ATLASES

### POL\_AT1

### Map Atlas of the Polish Geological Institute

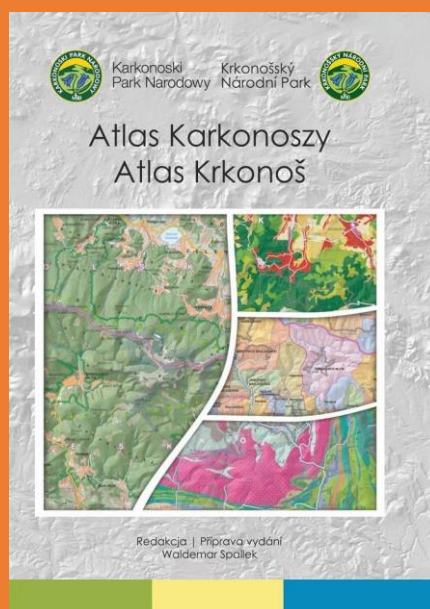
Type of material	Paper
Number of pages	133
Dimensions (mm)	210 x 297
Author(s)	Stanisław Wołkowicz (ed.)
Published by	Polish Geological Institute
Date of publication	2020
Language(s) of the text	Polish
Abstract/Description (in English or French; 100 words max)	More than one hundred maps selected from one hundred years of achievements of the Polish Geological Institute are presented in the publication which closes the celebrations of the recent jubilee. It presents maps compiled before 1945, atlases and geological, geophysical, hydrogeological, geological-engineering, geochemical, geoenvironmental and geotouristic maps. This cross-sectional compendium of Polish geological cartography is now available online for all those interested ( <a href="https://www.pgi.gov.pl/docman-tree-all/aktualnosci-2021/8301-100-map-na-100-lecie/file.html">https://www.pgi.gov.pl/docman-tree-all/aktualnosci-2021/8301-100-map-na-100-lecie/file.html</a> )



## POL\_AT2

### The Karkonosze Atlas

Type of material	Paper
Number of pages	65
Dimensions (mm)	235 x 320
Author(s)	Waldemar Spaller (ed.)
Published by	Karkonoski Park Narodowy, Správa Krkonošského národního parku
Date of publication	2021
Language(s) of the text	Czech, Polish
Abstract/Description (in English or French; 100 words max)	<p>"The Karkonosze Atlas" is a result of cooperation of both national parks and scientific communities within the Polish-Czech project "A joint approach to management of the Krkonoše/Krkonoše National Park". In a comprehensive and bilateral way it presents harmonized data on many natural and social issues of both sides of the mountains. It aims to popularize the knowledge about the nature of the whole region, showing the spatial context and without taking into account artificial boundaries. It is available online for all those interested (<a href="https://kpnmab.pl/img/files/Wydawnictwa7/Atlas%20Karkonoszy%202021.zip">https://kpnmab.pl/img/files/Wydawnictwa7/Atlas%20Karkonoszy%202021.zip</a>)</p>



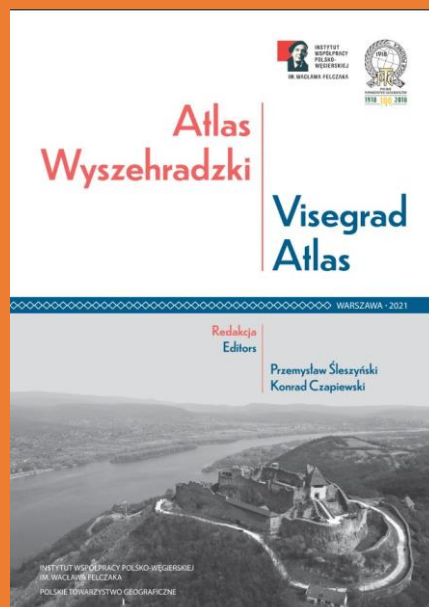
## POL\_AT3

### Visegrad Atlas

Type of material	paper
Number of pages	302
Dimensions (mm)	210 x 297
Author(s)	Przemysław Śleszyński, Konrad Czapiewski (eds.)



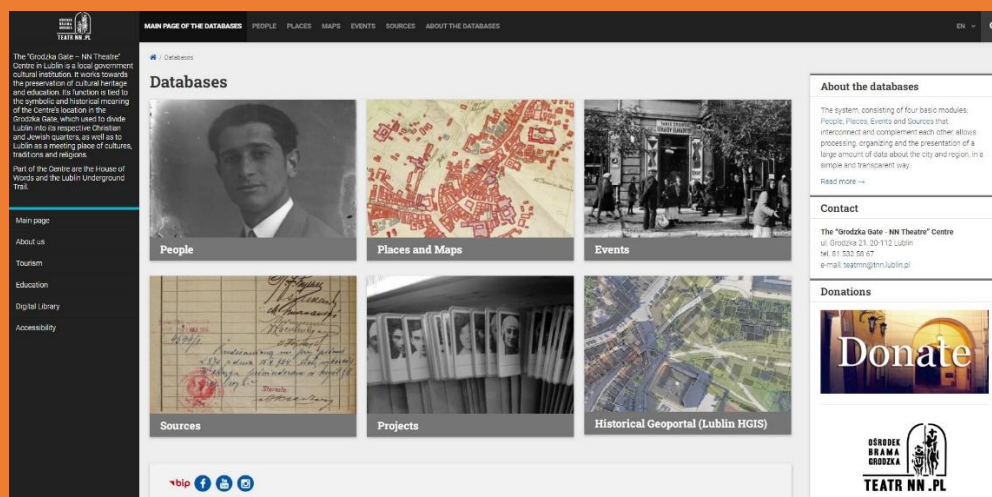
<b>Published by</b>	Instytut Współpracy Polsko-Węgierskiej im. Wacława Felczaka
<b>Date of publication</b>	2021
<b>Language(s) of the text</b>	Czech, English, Hungarian Polish, Slovak
<b>Abstract/Description (in English or French; 100 words max)</b>	The purpose of the publication is to show the geographical specificity of the countries forming the Visegrad Group (Czech Republic, Poland, Slovakia and Hungary) in their natural, socio-cultural and economic diversity, as well as an attempt at a comprehensive description of the phenomena and processes resulting from the intertwining of the historical and contemporary developmental conditions. The monograph was prepared by a group of over 40 authors who are recognized specialists in the presented issues. They are employees of the Polish Academy of Sciences, leading Polish universities and professional think-tanks, but above all - great enthusiasts of geography.



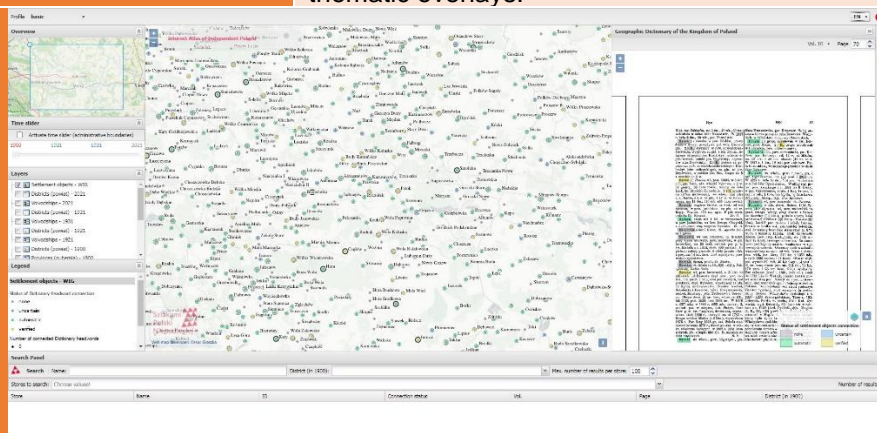
## DIGITAL PRODUCTS

<b>POL_DP1</b>	<i>Teatrnn.pl: historical geoportal of Lublin</i>
<b>Type</b>	Web platform
<b>File format (10 words)</b>	SQL databases, TMS services, geoJSON, images, audio, video, 3D models
<b>Operating system</b>	Any with web browser
<b>License</b>	Copyright © "Ośrodek Brama Grodzka - Teatr NN"
<b>Author(s)</b>	Historical GIS development team:

	Czumak Izabela, Hume Anna, Jeremicz Jacek. Konczanin Anna. Korulczyk Robert. Kowalski Łukasz, Krotofil Piotr, Kuna Jakub, Przystojewski Tadeusz, Stefańska Magdalena, and thematic associates
Published by	Ośrodek "Brama Grodzka - Teatr NN" w Lublinie ["Grodzka Gate - NN Theatre" Centre in Lublin, Poland]
Date of publication or most recent update	daily
Scale	Zoomable, levels 5-19 are particularly in use, from 1:1,000 to 1:1,000,000
Language(s) of the presentation	Polish (mostly), English, also other languages depending on source material (German, Russian, Ukrainian, Yiddish)
Abstract/Description (in English or French; 100 words max)	The historical geoportal of Lublin is an innovative cross-platform that gives access to multirelational matrix of thousands records of historical events, places and people. Integration of archival collections, genealogical databases, gazetteers, old maps and webmap API, gives editors a versatile tool for developing deep maps and spatial narratives. HGIS Lublin is a system that allows users to enhance their genealogical research beyond traditional sources so that they can become immersed in the world of their ancestors through maps, documents, photos, video, 3D models and more. Visit us at <a href="https://teatrnn.pl/bazy-danych/en/">https://teatrnn.pl/bazy-danych/en/</a>



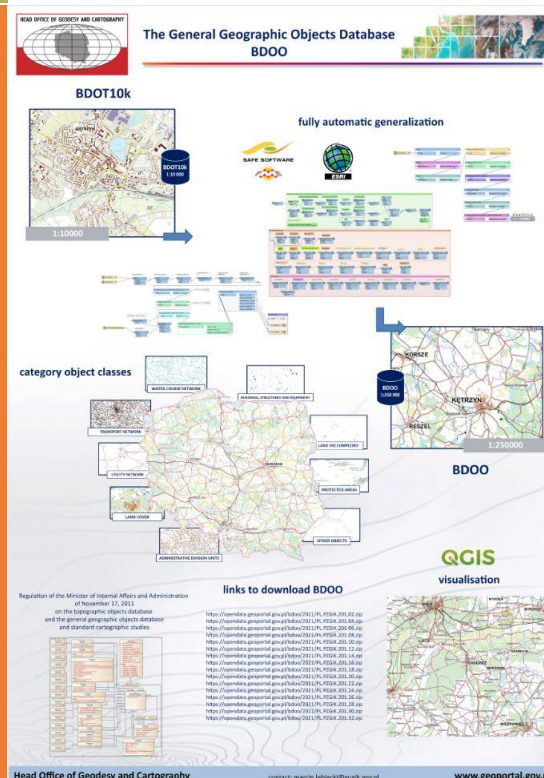
POL_DP2 <i>Internet Atlas of Independent Poland</i>	
Type	Web map
File format (10 words)	-
Operating system	-
License	GPLv3 (Ext JS, GeoExt), 2-clause BSD (Openlayers)
Author(s)	Prof. Tadeusz Epszstein (IH PAS – Head of the Project), Andrzej Głazewski EngD (FGC WUT), Oskar Graszka M.Eng (FGC WUT), Arkadiusz Jagura M.Eng (FGC WUT), Adam Kocot M.Eng (FGC WUT), Paweł Kowalski EngD (FGC WUT), Grzegorz Myrda M.Eng (IH PAS), Katarzyna Osińska-Skotak WUT Prof. (FGC WUT), Michał Raczkowski, MA (IH PAS), Marek Słoń IH PAS Prof. (IH PAS), Bogumił Szady IH PAS Prof. (IH PAS), Dr Adrianna Sznepik PhD (IH PAS).
Published by	The Tadeusz Manteuffel Institute of History of the Polish Academy of Sciences and the Faculty of Geodesy and Cartography of the Warsaw University of Technology
Date of publication or most recent update	July 2021
Scale	-
Language(s) of the presentation	Polish, English, German
Abstract/Description (in English or French; 100 words max)	Geoportal contains an interactive map of settlements from the territory of the Second Polish Republic and administrative borders of the gubernias, districts, voivodeships, and poviats (with the addition of communes in the Voivodeship of Łódź), related to three periods: 1900, 1921, and 1931. The basic visualization of settlement points includes the state and number of links between a given point and SGK entries. Related headword records can be interactively located on the SGK page scans. The layers of administrative boundaries are linked to selected socio-economic data displayed from the statistical data panel in the form of thematic overlays.





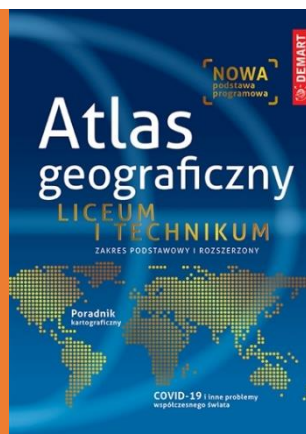
## DIGITAL SERVICES

<b>POL_DS1</b> <i>The General Geographic Objects Database (BDOO)</i>	
Type of service	WMS, WMTS Services, WWW
Format (10 words)	GML
Software platform	QGIS
URL web link	<a href="https://mapy.geoportal.gov.pl/wss/service/PZGIK/BDOO/WMS/2021">https://mapy.geoportal.gov.pl/wss/service/PZGIK/BDOO/WMS/2021</a> <a href="https://mapy.geoportal.gov.pl/wss/service/PZGIK/BDOO/WMTS/2021">https://mapy.geoportal.gov.pl/wss/service/PZGIK/BDOO/WMTS/2021</a> <a href="https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.02.zip">https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.02.zip</a> <a href="https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.04.zip">https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.04.zip</a> <a href="https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.06.zip">https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.06.zip</a> <a href="https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.08.zip">https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.08.zip</a> <a href="https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.10.zip">https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.10.zip</a> <a href="https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.12.zip">https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.12.zip</a> <a href="https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.14.zip">https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.14.zip</a> <a href="https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.16.zip">https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.16.zip</a> <a href="https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.18.zip">https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.18.zip</a> <a href="https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.20.zip">https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.20.zip</a> <a href="https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.22.zip">https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.22.zip</a> <a href="https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.24.zip">https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.24.zip</a> <a href="https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.26.zip">https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.26.zip</a> <a href="https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.28.zip">https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.28.zip</a> <a href="https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.30.zip">https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.30.zip</a> <a href="https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.32.zip">https://opendata.geoportal.gov.pl/bdoo/2021/PL.PZGIK.201.32.zip</a>
License	open data
Author(s)	Marcin Lebiecki
Published by	Head Office of Geodesy and Cartography
Date of publication or most recent update	2021
Scale	1 : 250 000
Language(s) of the presentation	English
Abstract/Description (in English or French; 100 words max)	<p>BDOO - database of topographic objects and their descriptive characteristics. The content and level of detail complies with the general geographic map of 1:250000 scale. The basic unit - a voivodeship (data for 16 - gml). The basic and main source of data is the Topographic Objects Database (BDOT10k). The content covers 9 thematic ranges - categories of object classes. The categories of object classes are: water course network, transport network, utility network, land cover, buildings, structures and equipment, land use complexes, protected areas, administrative division units, other objects. BDOO was created in 2021 year in fully automatic generalization process.</p>



## EDUCATIONAL PRODUCTS

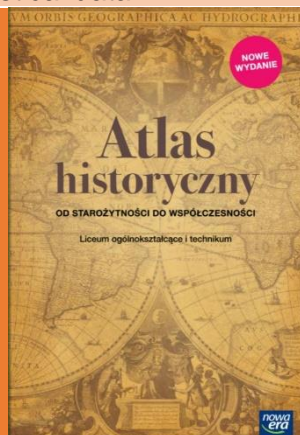
<b>POL_EP1</b>	<b><i>Geographic Atlas. High school and technical school</i></b>	
<b>Author(s)</b>	collective work	
<b>Type</b>	Atlas	
<b>Dimensions (mm)</b>	202 x 290	
<b>Published by</b>	Demart	
<b>Date of publication</b>	2021	
<b>Language(s) of the product</b>	Polish	
<b>Abstract/Description (in English or French; 100 words max)</b>	The atlas is intended for a full cycle of teaching in secondary schools both in the basic and extended scope according to the new core curriculum (since 2019). A cartographic guide has been added to introduce students to the world of maps and show them that they contain a lot of information that is much more difficult to assimilate in descriptive form, that many conclusions can be drawn from maps, especially with regard to distribution and variability of phenomena, and finally that using maps is not difficult and gives a lot of satisfaction.	



## POL\_EP2

### Historical Atlas: From Antiquity to the Present

Author(s)	collective work
Type	Atlas
Dimensions (mm)	220x320
Published by	Nowa Era
Date of publication	2019
Language(s) of the product	Polish
Abstract/Description (in English or French; 100 words max)	Historical Atlas "From Antiquity to the Present" is a publication designed for secondary schools. It facilitates work during lessons and develops students' skills. It allows to improve historical skills by means of clear, simple and easy to read maps. It arouses students' curiosity thanks to graphically attractive and richly colored maps. Enables quick searching thanks to an extensive index of place names and important objects connected with historical events. It helps to consolidate and complete knowledge gained during lessons by means of numerous thematic maps, sectional maps, battle plans, town plans, diagrams, schemes and statistical data.

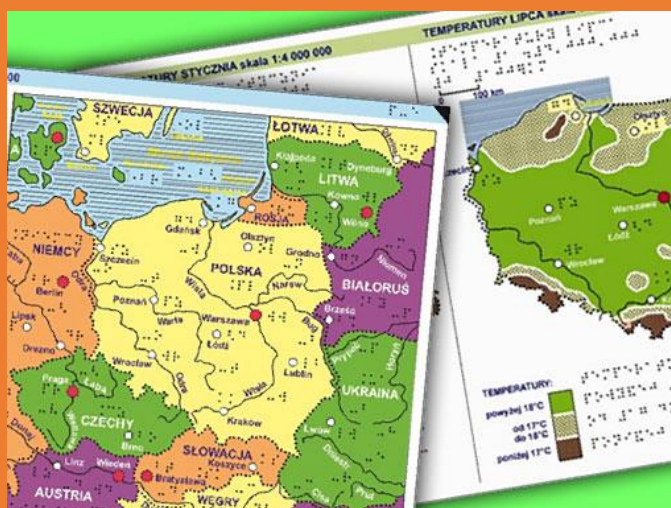




## OTHER CARTOGRAPHIC PRODUCTS

### POL\_OC1 *Geographical atlas of Belarus for the blind and visually impaired*

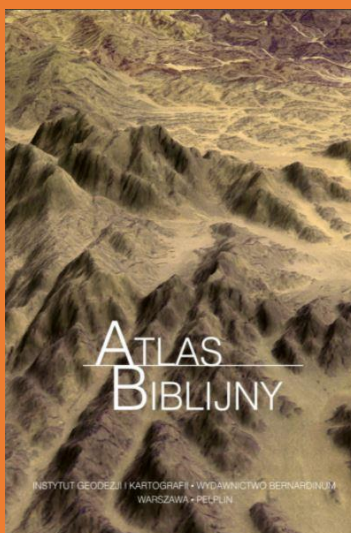
Author(s)	Nadzeya Avizhych (ed.)
Type	Atlas (tactile)
Dimensions (mm)	305 x 413
Published by	University of Warsaw
Date of publication	2020
Language(s) of the product	Belarussian
Abstract/Description (in English or French; 100 words max)	"Geographical atlas of Belarus for the blind and visually impaired" was developed at the Faculty of Geography and Regional Studies, University of Warsaw, as part of a master's thesis. The publication consists of two volumes. The first one contains natural maps and the second one: socio-economic. This is the first atlas of Belarus for the blind and visually impaired. It is the first opportunity for visually impaired people to get to know their homeland with the help of maps.



### POL\_OC2 *The Bible Atlas*

Author(s)	Adam Linsenbarth (ed.)
Type	Atlas
Dimensions (mm)	228 x 328
Published by	Bernardinum
Date of publication	2020
Language(s) of the product	Polish
Abstract/Description (in English or French; 100 words max)	The Bible Atlas prepared for publication by Bernardinum and the Institute of Geodesy and Cartography is the first

Polish Bible Atlas developed by Polish authors. The atlas is dedicated to readers interested in the Holy Scriptures and is designed to enable them to follow the events of the Bible on appropriately edited maps based on satellite images. The atlas covers areas from Mesopotamia in the east to Italy in the west, and from Turkey in the north to Egypt in the south. Temporal coverage is limited to the 18th century BC to the 1st century AD.

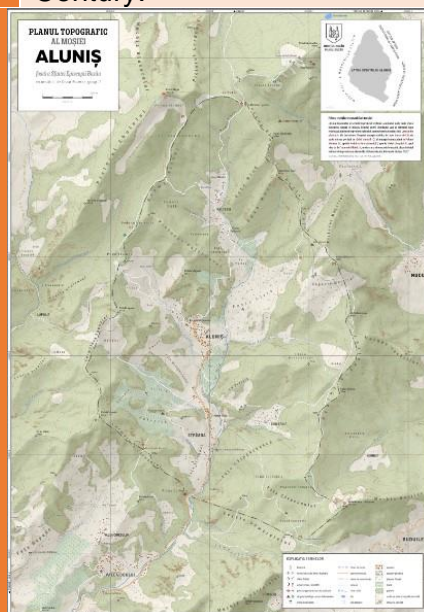


# ROMANIA

## MAPS ON PANELS

### ROU\_MP1 The Topographic Plan of Aluniș Estate – former property of the Buzău Diocese

Type of material	Paper Map
Scale (if relevant)	1:7500
Dimensions (mm)	594 x 841 mm (A1)
Author(s)	Cezar Buterez
Published by	Cezar Buterez, unpublished map
Date of publication	Last update in September 2020
Language(s) of the legend	Romanian
Abstract/Description (in English or French; 100 words max)	The present map is a result of a two-year research in historical geography with the purpose of establishing the origin and extent of the main estate of the former Aluniș monastery, in Buzău County, Romania. Numerous fieldwork campaigns were conducted in order to identify the place names and landmarks of the estate, according to 17 <sup>th</sup> Century historical documents. The map presents the reconstruction of Aluniș estate boundaries in the context of today's geography. Its design as a topographical map draws significant inspiration from Romania's first national topographical maps printed at the end of the 19 <sup>th</sup> Century.





## EDUCATIONAL PRODUCTS

### ROU\_EP1

#### *Guess where is the city!*

Author(s)	Vasile Gabriel Dascălu
Type	Digital Educational product
Dimensions (mm)	N/A
Published by	Vasile Gabriel Dascălu
Date of publication	5 <sup>th</sup> of May 2020
Language(s) of the product	English
Abstract/Description (in English or French; 100 words max)	<p>The online game was created to help students learn more easily the location of major cities in Europe. It includes three levels of difficulty and the aims for the users to locate as accurately as possible the position of a requested city on a satellite map without toponyms. There is also the option to view the highscores saved using PHP programming language.</p> <p>Link to resource:  <a href="https://gabrieldascalu.com/Games/Orase%20Europa/europe_cities.html">https://gabrieldascalu.com/Games/Orase%20Europa/europe_cities.html</a> </p>



# RUSSIA

## MAPS ON PANELS

### RUS\_MP1

### Political World Map

Type of material	Paper, rigid base
Scale (if relevant)	1:15 000 000
Dimensions (mm)	2300x1420 mm
Published by	Joint-Stock Company «Roscartography»
Date of publication	2021
Language(s) of the legend	English language
Abstract/Description (in English or French; 100 words max)	The map shows the states and territories of the world, their capitals and centers, settlements ranged by the number of inhabitants, railways and highways. Additionally, a lights-and-black shading shows the relief. Phonetic transcription of the settlements names was applied. The names of the states are written in English.





## RUS\_MP2

### World Cosmonautics

Type of material	Paper, rigid base
Scale (if relevant)	1:15 000 000
Dimensions (mm)	2300x1420 mm
Published by	Joint-Stock Company «Roscartography»
Date of publication	2021
Language(s) of the legend	Russian language
Abstract/Description (in English or French; 100 words max)	The creation of this map is timed to the 60th anniversary of the first human's flight to space. The map is compiled on a general geographical basis. The flight paths of the first cosmonauts and the most well-known artificial satellites of the Earth are schematically plotted. The spaceports are designated.



## RUS\_MP3

### Geographical Map of the Russian Federation

Type of material	Paper, rigid base
Scale (if relevant)	1:8 000 000
Dimensions (mm)	1000x570 mm
Published by	Federal State Budgetary Establishment «Center of Geodesy, Cartography and SDI»
Date of publication	2020
Language(s) of the legend	Russian language



**Abstract/Description (in  
English or French; 100 words  
max)**

The map was prepared on the state order in 2016 by the Federal State Budgetary Establishment «Center of Geodesy, Cartography and SDI» (Rosreestr subordinate institution). The map content was fully updated in 2020. The map is created in a straight conic equispace projection, the initial meridian is 100°, and the frequency of the cartographic grid is 4° in latitude and 4° in longitude. Map content elements include hydrographic objects, settlements, communication lines, state borders, borders of the constituent entities of the Russian Federation, salient peaks and active volcanoes, captions. The relief on the map is shown by layer tints.



## ATLASES

**RUS\_A  
T1**

*Atlas of the Great Patriotic War Battles (1941 – 1945)*

Type of material	Paper
Number of pages	60 pages
Dimensions (mm)	210x295 mm
Published by	Joint-Stock Company «Roscartography»
Date of publication	2020
Language(s) of the text	Russian language

**Abstract/Description (in English or French; 100 words max)**

The atlas contains maps of the pre-war political structure of Europe and the Soviet Union, maps of the general course of hostilities and maps with text descriptions showing in detail all the main military operations of the Great Patriotic War. Additionally, the atlas includes maps on the history of the partisan movement, the economy of the USSR during the war, and a section dedicated to Hero-Cities and Cities of Military Glory.



**RUS\_A  
T2**

*Atlas «Roads of Military Glory 1941 – 1945»*

Type of material	Paper
Number of pages	288 pages
Dimensions (mm)	215x290 mm
Published by	Joint-Stock Company «Roscartography», Republican Unitary Enterprise «Belcartography»
Date of publication	2020
Language(s) of the text	Russian language

**Abstract/Description (in English or French; 100 words max)**

The atlas is a joint Russian-Belarusian publication dedicated to the anniversary of the Victory in the Great Patriotic War. The atlas includes maps of the largest Great Patriotic War battles, modern geographical maps of the territory of the Republic of Belarus and the western regions of the European part of Russia with objects of military historical heritage and information about them, text descriptions and photos which are dedicated to the events of the war years.



## OTHER CARTOGRAPHIC PRODUCTS

RUS\_OC  
1

*Booklet «To the 100th Anniversary of the State  
Cartographic and Geodetic Service. History pages»*

Type	Paperback
Number of pages	82 pages
Dimensions (mm)	60x90 mm
Published by	Federal State Budgetary Establishment «Center of Geodesy, Cartography and SDI»
Date of publication	2019
Language(s) of the product	Russian language
Abstract/Description (in English or French; 100 words max)	The Federal State Budgetary Establishment «Center of Geodesy, Cartography and SDI» prepared the publication for the 100th anniversary of the State Cartographic and Geodetic Service of Russia. It contains historical essays about all the stages of geodesy and cartography creation and formation in Russia. The publication contains cartographic and archival materials.



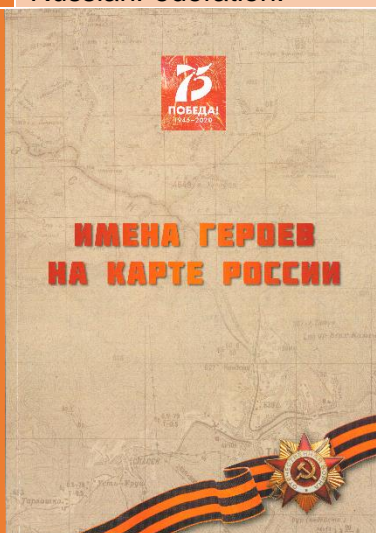
К 100-летию образования  
Государственной картографо-  
геодезической службы.  
Страницы истории



**RUS\_OC  
2**

**Booklet «The Names of Heroes on the Map of Russia»**

Type	Paperback
Number of pages	84 pages
Dimensions (mm)	210x297 mm
Published by	Federal State Budgetary Establishment «Center of Geodesy, Cartography and SDI»
Date of publication	2020
Language(s) of the product	Russian language
Abstract/Description (in English or French; 100 words max)	Rosreestr together with the Federal State Budgetary Establishment «Center of Geodesy, Cartography and SDI» prepared the publication for the 75th anniversary of the Victory in the Great Patriotic War. The booklet is dedicated to the heroes of military operations, whose names were immortalized in the names of geographical objects by the decisions of the Government of the Russian Federation. It contains cartographic materials, biographical articles and copies of decrees and resolutions of the Government of the Russian Federation.



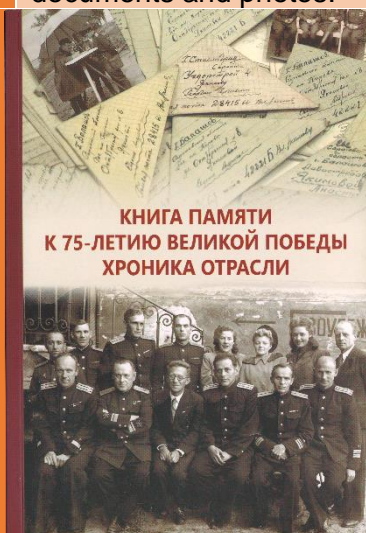
**RUS\_OC  
3**

**Booklet «Memorial Book for the 75th Anniversary of the Great Victory. The Chronicle of the Branch»**

Type	Paperback
Number of pages	196 pages
Dimensions (mm)	70x100 mm
Published by	Federal State Budgetary Establishment «Center of Geodesy, Cartography and SDI»
Date of publication	2020
Language(s) of the product	Russian language

**Abstract/Description (in  
English or French; 100 words  
max)**

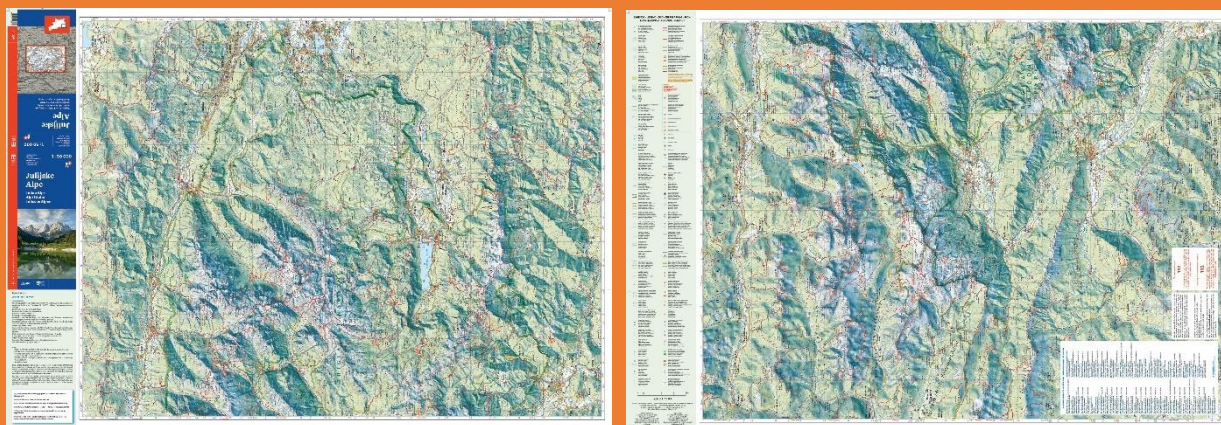
The Federal State Budgetary Establishment «Center of Geodesy, Cartography and SDI» prepared the publication for the 75th anniversary of the Victory in the Great Patriotic War. It contains historical essays, memoirs of veterans of the branch, dedicated to the work of civil and military surveyors and cartographers in the field and in the rear during the Second World War. The booklet contains archival historical maps, some of which are published for a wide range of readers for the first time. It also contains other archival documents and photos.



# SLOVENIA

## MAPS ON PANELS

SVN_MP1	<i>Julian Alps</i>
Type of material	Paper
Scale (if relevant)	1:50 000
Dimensions (mm)	685 x 990 mm
Author(s)	Andrej Stritar, Matjaž Kos, Nina Kerpan, Miha Pergar
Published by	Geodetska družba d.o.o. and Alpine association of Slovenia
Date of publication	July 2021
Language(s) of the legend	Slovenian, English, German, Italian, Croatian, Czech
Abstract/Description (in English or French; 100 words max)	The map is two-sided and covers the area of the Julian Alps. In addition to mountain trails and huts, there are many other hiking and tourist trails, as well as other tourist information. On the first page there is also a cover and a colophon, and on the other side a legend and a list of mountain huts. It is intended for hikers / mountaineers who want to discover Slovenian mountains. The mountain trails on the map are shown on the basis of the latest situation - from the cadastre of mountain trails of the Alpine Association of Slovenia.



SVN_MP2	<i>Kamnik-Savinja Alps</i>
Type of material	Paper
Scale (if relevant)	1:50 000
Dimensions (mm)	990 x 685 mm
Author(s)	Andrej Stritar, Matjaž Kos, Nina Kerpan, Miha Pergar



<b>Published by</b>	Geodetska družba d.o.o. and Alpine association of Slovenia
<b>Date of publication</b>	June 2021
<b>Language(s) of the legend</b>	Slovenian, English, German, Italian, Croatian, Czech
<b>Abstract/Description (in English or French; 100 words max)</b>	The map is two-sided. The first side covers the entire area of the Kamnik-Savinja Alps, and on the back there is a legend, a description of the ascents to the highest peaks, and a list and description of mountain huts with contacts and QR codes for access to additional information online. It is intended for hikers / mountaineers who want to discover Slovenian mountains. The mountain trails on the map are shown on the basis of the latest situation - from the cadastre of mountain trails of the Alpine Association of Slovenia.



<b>SVN_MP3</b>	<b><i>Soriška planina</i></b>
<b>Type of material</b>	Paper
<b>Scale (if relevant)</b>	1 : 5000
<b>Dimensions (mm)</b>	310 x 170 mm
<b>Author(s)</b>	Mile Stevanović, Ivan Nagy
<b>Published by</b>	Lesovik
<b>Date of publication</b>	2019
<b>Language(s) of the legend</b>	No legend
<b>Abstract/Description (in English or French; 100 words max)</b>	Orienteering map for forest sprint, made according to previous IOF ISSOM 2007 specifications. Alpine karst plateau at altitude of 1300 m, unusual for sprint.

Soriška planina

1:5000 | 2,5m | 2019

DOOCUP



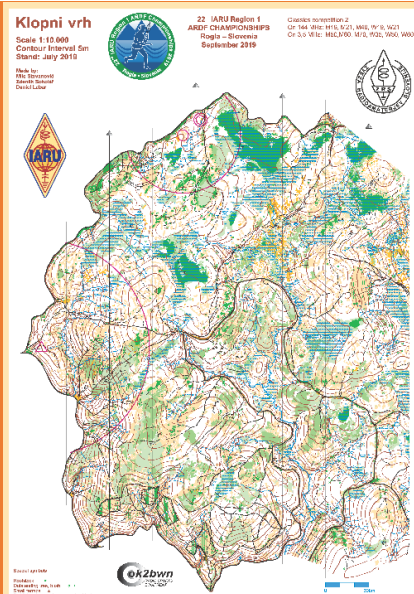
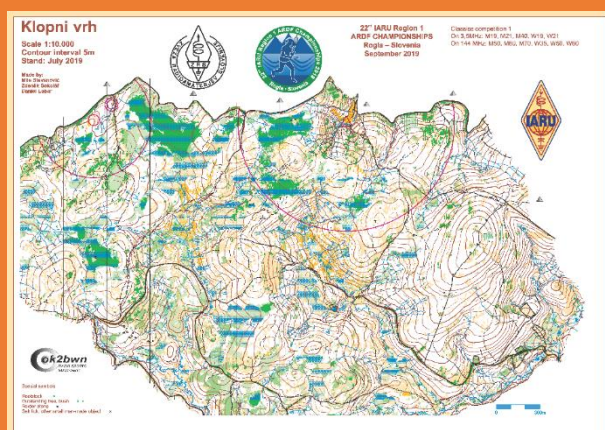
Infoteka M. Stevanović, I. Nagy

©Cineviz

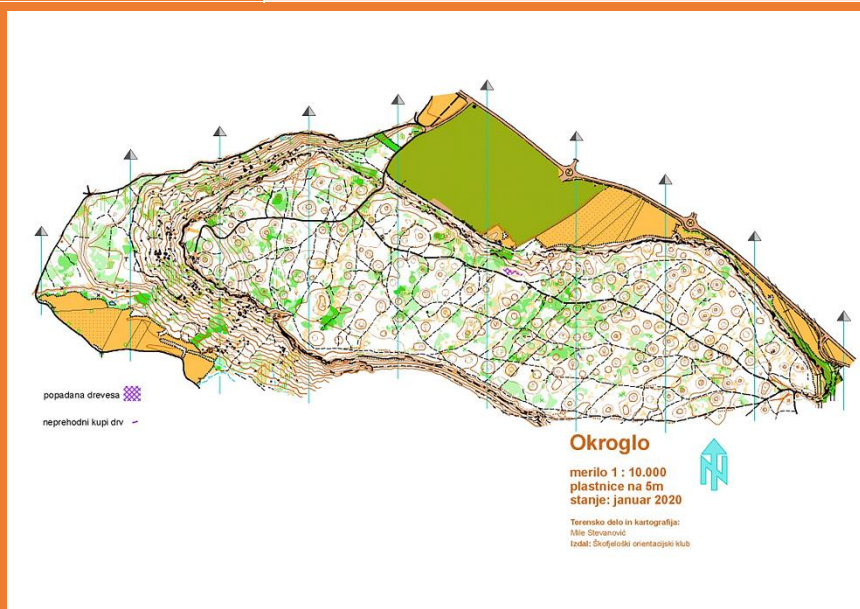
SVN\_MP4

Klopni vrh

Type of material	Paper
Scale (if relevant)	1 : 10 000
Dimensions (mm)	420 x 420 mm
Author(s)	Mile Stevanović, Zdeněk Sokolář, Daniel Lebar
Published by	Slovenian Amateur Radio Association
Date of publication	July 2019
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	Orienteering map, made according to IOF ISOM 2017-2 specifications, primarily created and used at regional ARDF Championships. The area was mapped on two map sheets, partly overlapping. Mountain plateau in igneous rocks, altitude around 1300 m, many wetlands.

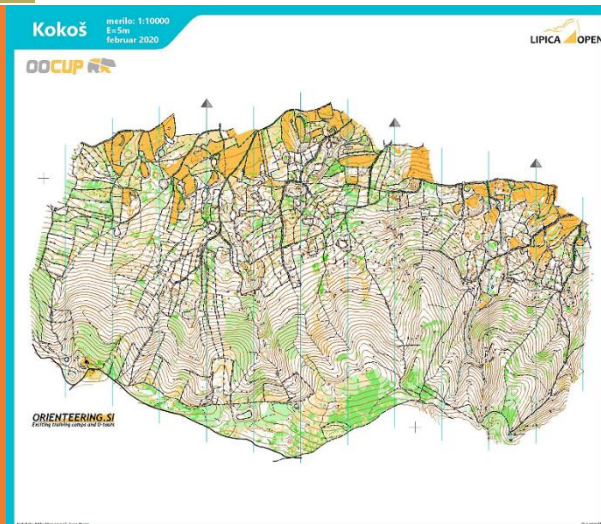


SVN_MP5		Okroglo
Type of material	Paper	
Scale (if relevant)	1 : 10 000	
Dimensions (mm)	290 x 210 mm	
Author(s)	Mile Stevanović	
Published by	Škofjeloški Orienteering Club	
Date of publication	January 2020	
Language(s) of the legend	Slovenian	
Abstract/Description (in English or French; 100 words max)	Orienteering map, made according to IOF ISOM 2017-2 specifications. Very diverse terrain with plateau covered with small depressions, surrounded by steep edges, full of sandstone and breccia cliffs. Altitude around 400 m, close to Sava riverbed.	



SVN_MP6		Kokoš (the hen)
Type of material	Paper	
Scale (if relevant)	1 : 10 000	
Dimensions (mm)	310 x 280 mm	
Author(s)	Mile Stevanović, Ivan Nagy	
Published by	Lesovik	
Date of publication	February 2020	
Language(s) of the legend	No legend	
Abstract/Description (in English or French; 100 words max)	Orienteering map, made according to IOF ISOM 2017-2 specifications. Steep terrain in Karst, not very typical for that area. Stone walls and boulders in lower, northern part. Altitude around 500 m, next to border to Italy.	

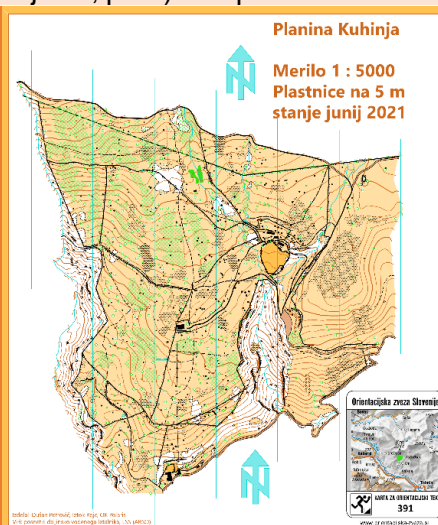




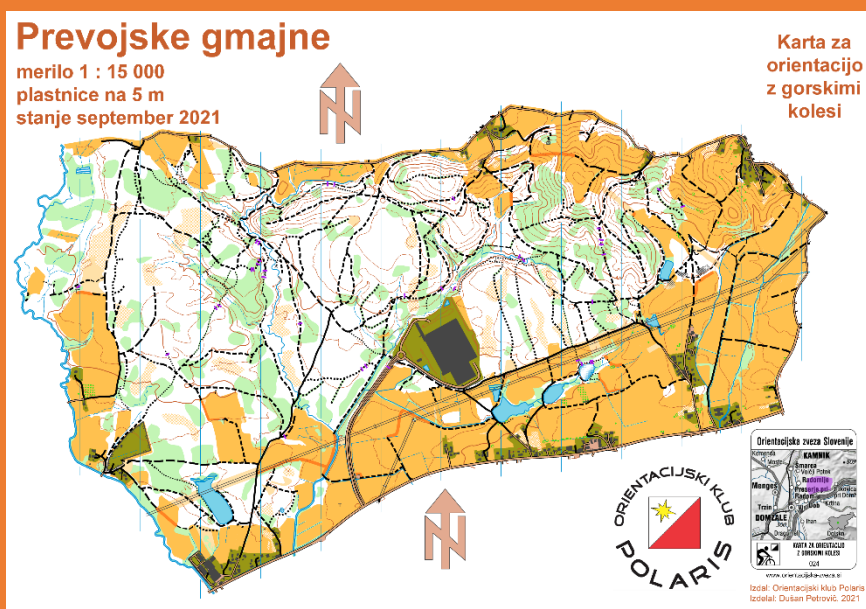
## SVN\_MP7

## Planina Kuhinja

Type of material	Paper
Scale (if relevant)	1 : 5000
Dimensions (mm)	220 × 260 mm
Author(s)	Dušan Petrovič
Published by	Orienteering club Polaris
Date of publication	June 2021
Language(s) of the legend	No legend
Abstract/Description (in English or French; 100 words max)	Orienteering map, made according to IOF ISOM 2017-2 specifications, but in larger scale. Alpine pastures at 1000 m a.s.l. Map was created in only few hours based on LiDAR DTM data (relief) and 2 cm ortophoto, created from UAV images (vegetation, objects, path). In open areas almost no field checking was needed.

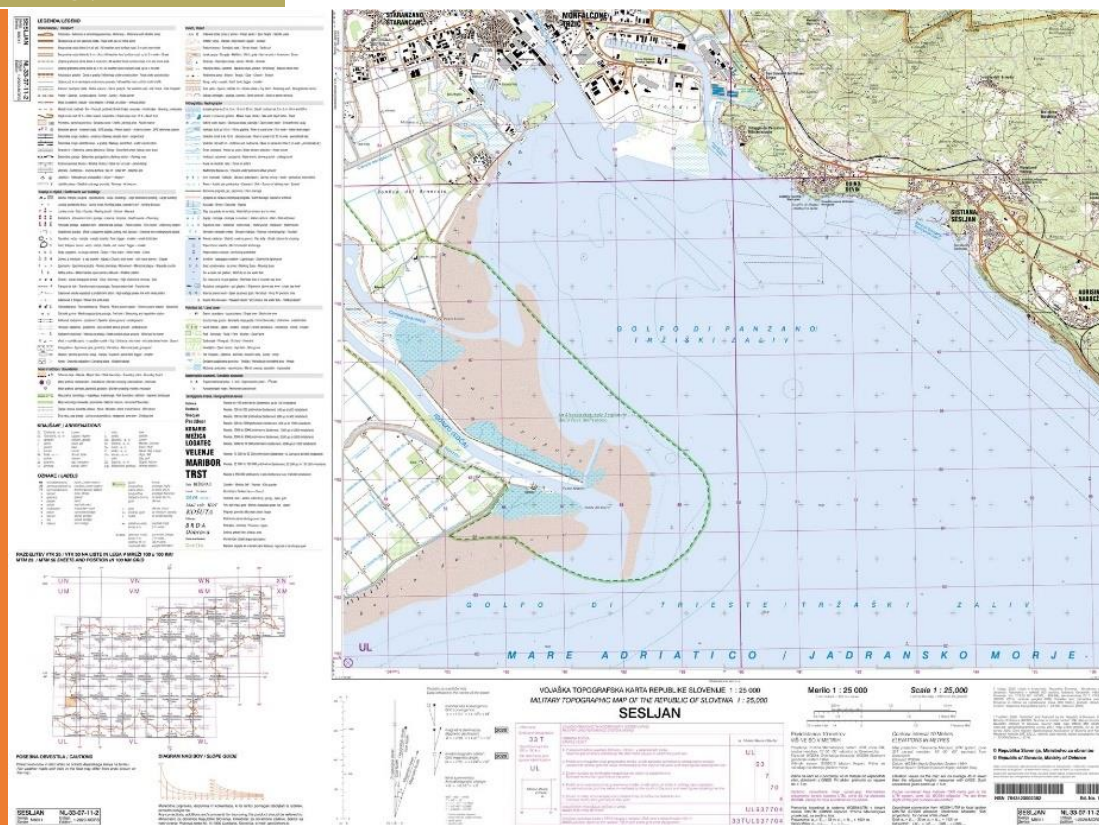


SVN_MP8 <i>Prevojske gmajne</i>	
Type of material	Paper
Scale (if relevant)	1 : 15 000
Dimensions (mm)	288 x 201 mm
Author(s)	Dušan Petrovič
Published by	Orienteering club Polaris
Date of publication	September 2021
Language(s) of the legend	No legend
Abstract/Description (in English or French; 100 words max)	Orienteering map, made according to IOF ISMTBOM specifications, for mountain bike orienteering. Flat area close to Ljubljana at 300 m a.s.l. Map was created based on LiDAR DTM data (relief) and 25 cm orthophoto. At field checking all path were rode with bicycle and filmed with sport camera.



**SVN\_MP9** *Vojaška topografska karta Republike Slovenije 1 : 25 000, list Sesljan*  
*Military topographic map of the Republic of Slovenia 1 : 25,000, sheet Sesljan*

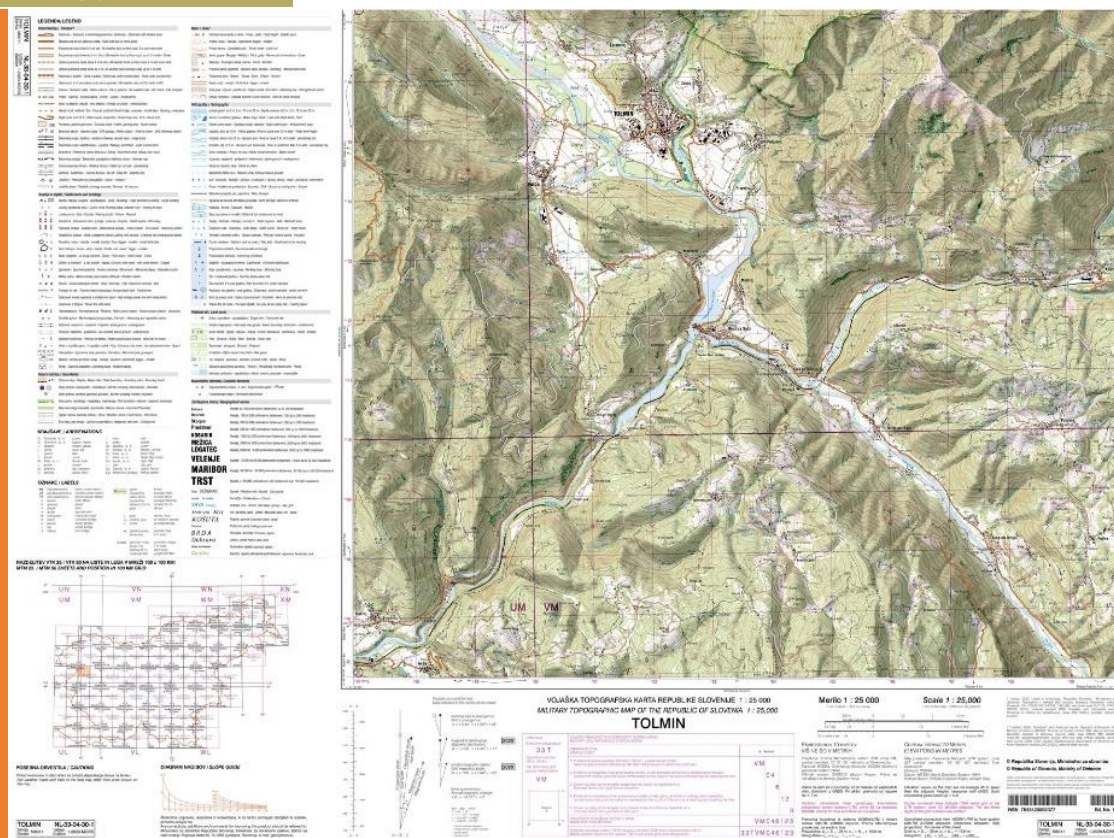
Type of material	paper
Scale (if relevant)	1 : 25,000
Dimensions (mm)	760 x 560 mm
Author(s)	Geodetic Institute of Slovenia
Published by	Republic of Slovenia, the Ministry of Defence
Date of publication	2020
Language(s) of the legend	Slovenian, English
Abstract/Description (in English or French; 100 words max)	New (bi-margin) national military topographic map.



**SVN\_MP10** Vojaška topografska karta Republike Slovenije 1 : 25 000, list Tolmin  
*Military topographic map of the Republic of Slovenia 1 : 25,000, sheet Tolmin*

Type of material	paper
Scale (if relevant)	1 : 25,000
Dimensions (mm)	760 x 560 mm
Author(s)	Geodetic Institute of Slovenia
Published by	Republic of Slovenia, the Ministry of Defence
Date of publication	2020
Language(s) of the legend	Slovenian, English
Abstract/Description (in English or French; 100 words max)	New (bi-margin) national military topographic map.

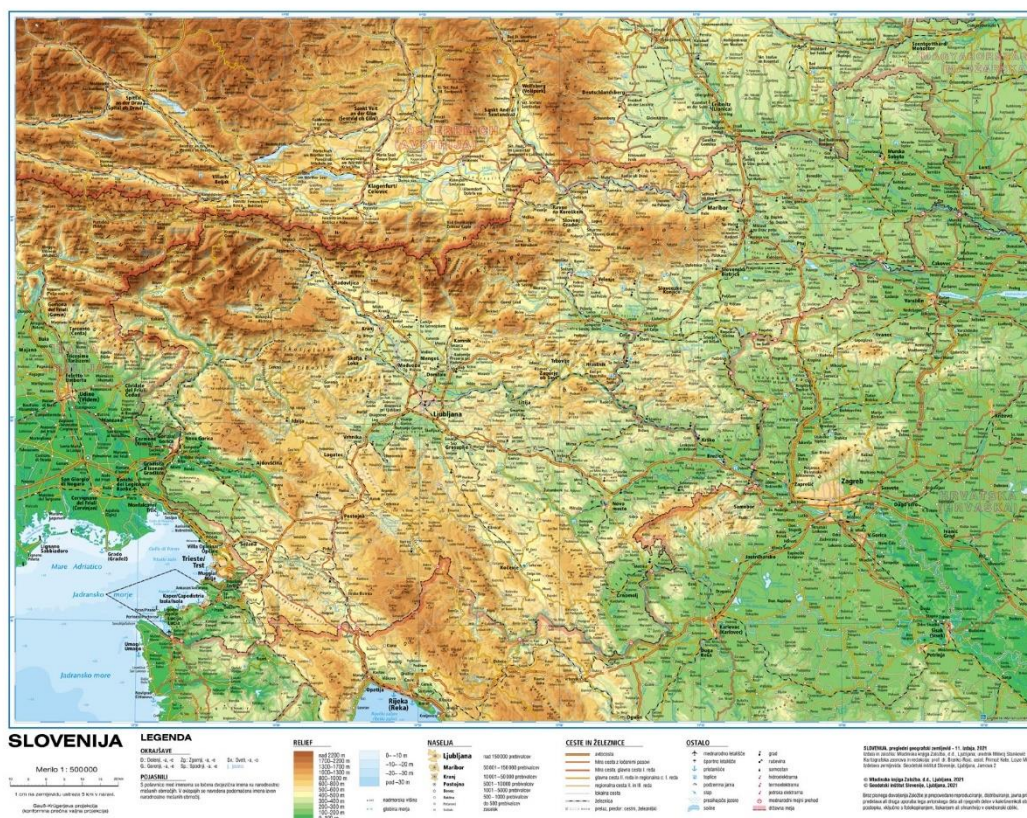




SVN\_MP11

## Slovenija, pregledni geografski zemljevid Slovenia, general geographic map

Type of material	paper
Scale (if relevant)	1 : 500,000
Dimensions (mm)	630 x 480 mm
Author(s)	Geodetic Institute of Slovenia
Published by	Mladinska knjiga Založba
Date of publication	2021
Language(s) of the legend	Slovenian
Abstract/Description (in English or French; 100 words max)	General school map of Slovenia.



<b>SVN_MP12</b>	<b>Evropa, pregledni geografski zemljevid</b> <i>Europe, general geographic map</i>
<b>Type of material</b>	paper
<b>Scale (if relevant)</b>	1 : 11,000,000
<b>Dimensions (mm)</b>	630 × 480 mm
<b>Author(s)</b>	Geodetic Institute of Slovenia
<b>Published by</b>	Mladinska knjiga Založba
<b>Date of publication</b>	2021
<b>Language(s) of the legend</b>	Slovenian
<b>Abstract/Description (in English or French; 100 words max)</b>	General school map of Europe.



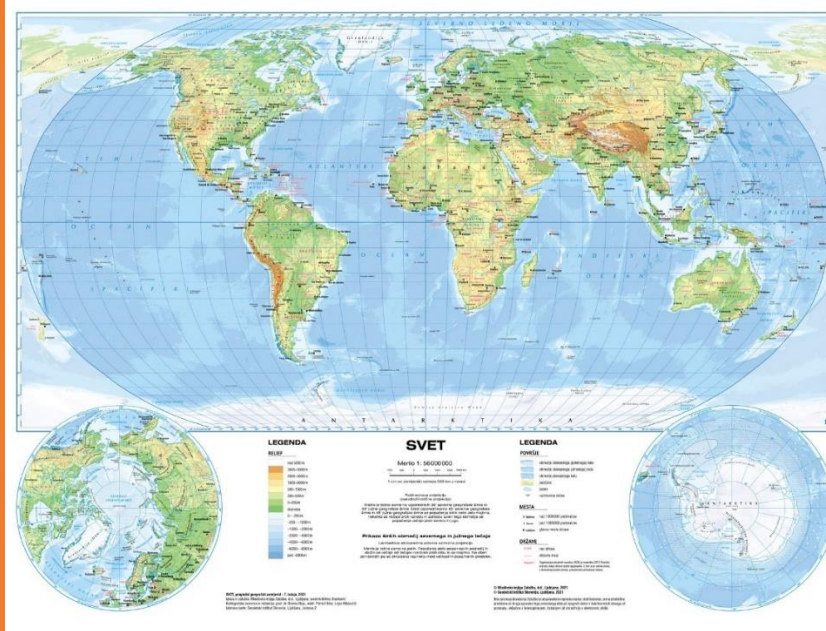


SVN MP13

**Svet, pregledni geografski zemljevid**  
*World, general geographic map*

Type of material	paper
Scale (if relevant)	1 : 56,000,000
Dimensions (mm)	630 x 480 mm
Author(s)	Geodetic Institute of Slovenia
Published by	Mladinska knjiga Založba
Date of publication	2021
Language(s) of the legend	Slovenian
Abstract/Description (in English or French; 100 words max)	General school map of the World.

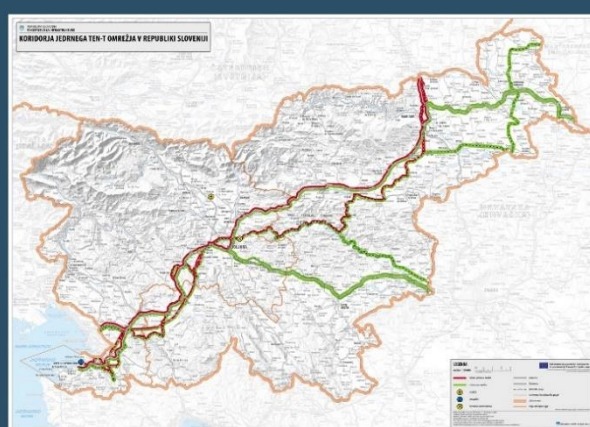




SVN\_MP14

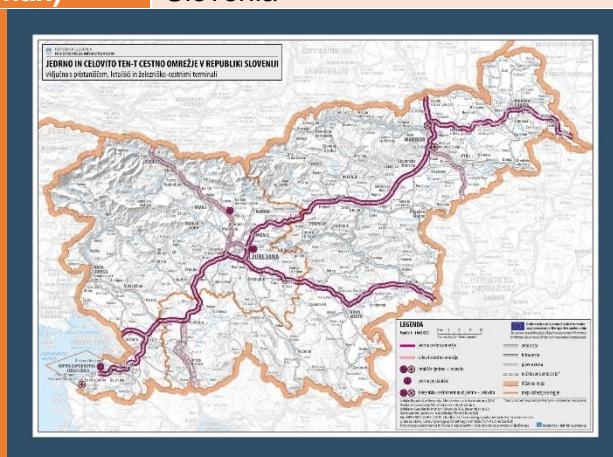
# Koridorja jedrnega TEN-T omrežja v Republiki Sloveniji *TEN-T core network corridors in the Republic of Slovenia*

Type of material	paper
Scale (if relevant)	1 : 250,000
Dimensions (mm)	1100 x 800 mm
Author(s)	Geodetic Institute of Slovenia
Published by	Republic of Slovenia, the Ministry of Infrastructure
Date of publication	2021
Language(s) of the legend	Slovenian
Abstract/Description (in English or French; 100 words max)	Overview map of the TEN-T corridors in the Republic of Slovenia



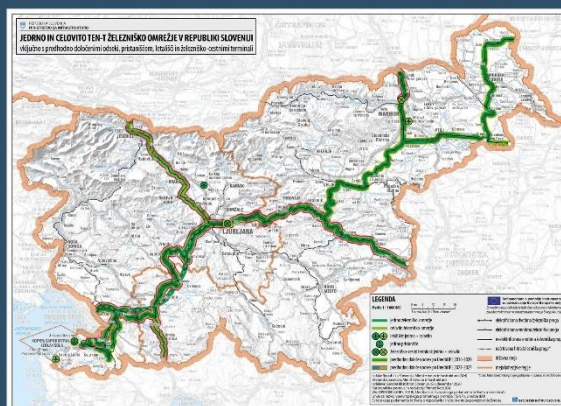
**SVN\_MP15** Jedrno in celovito TEN-T cestno omrežje v Republiki Sloveniji  
*Core and comprehensive TEN-T road network in the Republic of Slovenia*

Type of material	paper
Scale (if relevant)	1 : 1,000,000
Dimensions (mm)	297 × 210 mm
Author(s)	Geodetic Institute of Slovenia
Published by	Republic of Slovenia, the Ministry of Infrastructure
Date of publication	2021
Language(s) of the legend	Slovenian
Abstract/Description (in English or French; 100 words max)	Overview map of the TEN-T road network in the Republic of Slovenia



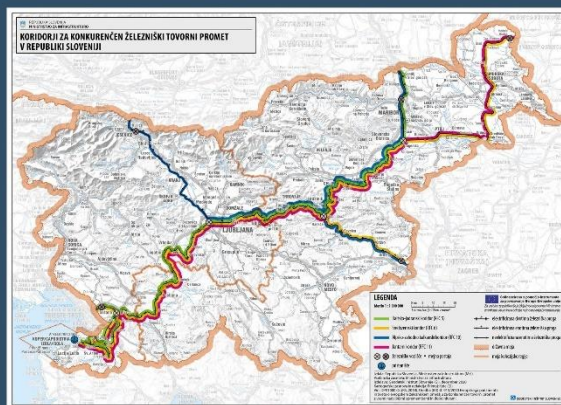
**SVN\_MP16** Jedrno in celovito TEN-T železniško omrežje v Republiki Sloveniji  
*Core and comprehensive TEN-T railway network in the Republic of Slovenia*

Type of material	paper
Scale (if relevant)	1 : 1,000,000
Dimensions (mm)	297 × 210 mm
Author(s)	Geodetic Institute of Slovenia
Published by	Republic of Slovenia, the Ministry of Infrastructure
Date of publication	2021
Language(s) of the legend	Slovenian
Abstract/Description (in English or French; 100 words max)	Overview map of the TEN-T railway network in the Republic of Slovenia



**SVN\_MP17 Koridorji za konkurenčen železniški tovorni promet v Republiki Sloveniji**  
*Corridors for competitive railway freight in the Republic of Slovenia*

Type of material	paper
Scale (if relevant)	1 : 1,000,000
Dimensions (mm)	297 x 210 mm
Author(s)	Geodetic Institute of Slovenia
Published by	Republic of Slovenia, the Ministry of Infrastructure
Date of publication	2021
Language(s) of the legend	Slovenian
Abstract/Description (in English or French; 100 words max)	Overview map of corridors for competitive railway freight in the Republic of Slovenia





# SVN\_MP18

## Grosuplje, Tourist map of municipality

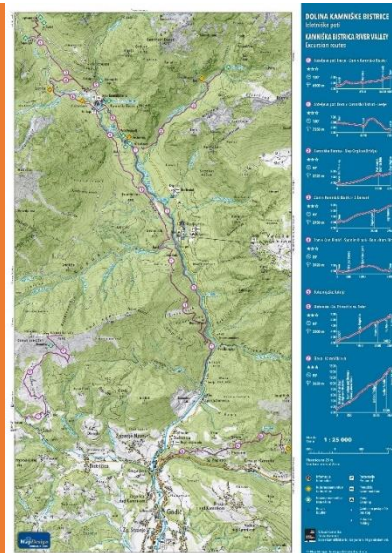
Type of material	Paper
Scale (if relevant)	1 : 25,000
Dimensions (mm)	700 x 660 mm
Author(s)	MapDesign d.o.o., Krešimir Keresteš
Published by	Grosuplje Tourism
Date of publication	April 2021
Language(s) of the legend	Slovenian / English
Abstract/Description (in English or French; 100 words max)	The map with the topographic background shows tourist attractions and offers in the municipality and in the two biggest towns. The map was created with Ocad and Adobe InDesign.



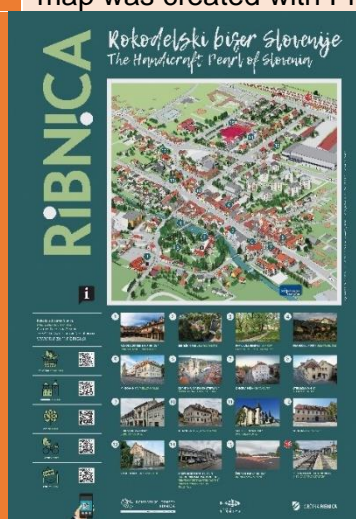
# SVN\_MP19

## Hiking paths in the Kamniška Bistrica River Valley

Type of material	Paper
Scale (if relevant)	1 : 25,000
Dimensions (mm)	420 x 297
Author(s)	MapDesign d.o.o., Krešimir Keresteš
Published by	Kamnik Tourism and Sports Agency
Date of publication	November 2020, reprint
Language(s) of the legend	Slovenian / English
Abstract/Description (in English or French; 100 words max)	The map with the topographic background shows excursion routes in the valley. The map was created with Ocad.



SVN_MP20	<i>Ribnica, The Handicraft Pearl of Slovenia (panoramic map)</i>
Type of material	Board
Scale (if relevant)	-
Dimensions (mm)	700 x 678, panel 1520 x 995
Author(s)	MapDesign d.o.o., Krešimir Keresteš
Published by	Ribnica Handicraft Centre
Date of publication	May 2021
Language(s) of the legend	Slovenian, English, German, Italian
Abstract/Description (in English or French; 100 words max)	The panoramic map shows tourist spots in the town. The map was created with Photoshop, Ocad, and InDesign.



## SVN\_MP21

## Rodik Mythic Park

Type of material	Board
Scale (if relevant)	1 : 5000
Dimensions (mm)	640 x 1036, panel 2000 x 1500
Author(s)	MapDesign d.o.o., Krešimir Keresteš
Published by	Rodik Tourist Association
Date of publication	April 2021
Language(s) of the legend	Slovenian / English
Abstract/Description (in English or French; 100 words max)	The map shows paths and mythological points with illustrations in the area of the mythical park. The map was created with Photoshop, Ocad, and InDesign.





# SOUTH AFRICA

## MAPS ON PANELS

ZAF\_MP1

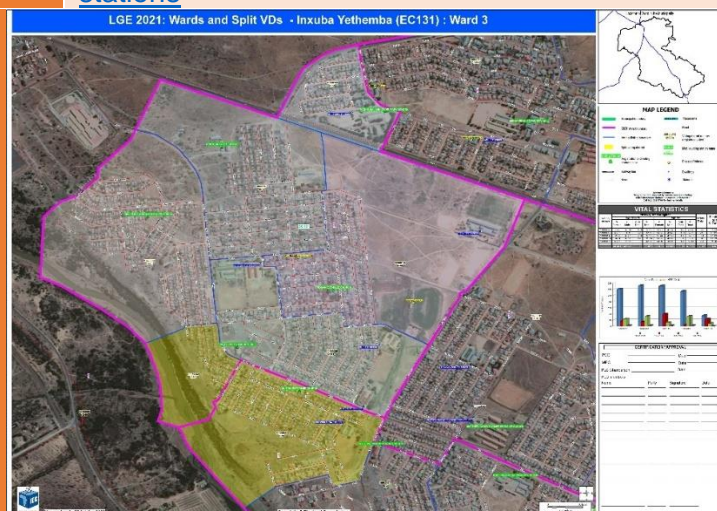
*LGE 2021: Wards and Split VDs - Inxuba Yethemba (EC131) :  
Ward 3*

Type of material	Paper map
Scale (if relevant)	Based on area bounding box
Dimensions (mm)	841x594mm (A1)
Author(s)	Electoral Commission of South Africa
Published by	Electoral Commission of South Africa
Date of publication	27 October 2020
Language(s) of the legend	English

**Abstract/Description**  
(in English or French;  
100 words max)

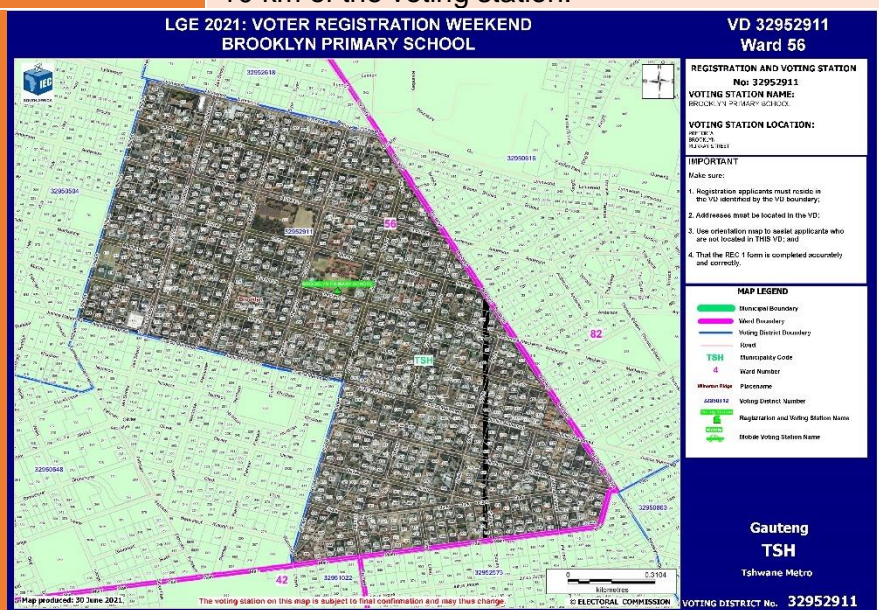
Working map showing potential voting district changes in Ward 3, Inxuba Yethemba (EC131). Many voting districts change shape due to various geographical, population and political changes that take place between elections. When delimiting voting districts, we access various data sources (topographic, cadastral, census information), including the Surveyor-General, the Department of Land Affairs and Statistics SA. Before an election, our municipal representatives inspect maps of voting districts in municipalities in order to align the geography of voting districts with local geographic, settlement, demographic and political changes that may have occurred since the previous election. Voting districts must also be aligned to new boundaries determined by the Municipal Demarcation Board.

<https://www.elections.org.za/pw/Voters-Roll/About-voting-districts-and-stations>



**ZAF\_MP2** *LGE 2021: Voter Registration Weekend, Brooklyn Primary School.*

Type of material	Paper map
Scale (if relevant)	Based on area bounding box
Dimensions (mm)	420x297mm (A3)
Author(s)	Electoral Commission of South Africa
Published by	Electoral Commission of South Africa
Date of publication	30 June 2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	Map of a voting district in Ward 56, City of Tshwane Metropolitan Municipality, South Africa, prepared for the 2021 Local Government Elections. Each voting district is serviced by one voting station only. Voting districts are principally determined on the basis of geographical size and number of eligible voters. Urban voting districts contain some 3,000 voters located within a radius of some 7,5 km of the voting station. Rural voting districts accommodate some 1,200 voters located within a radius of some 10 km of the voting station.

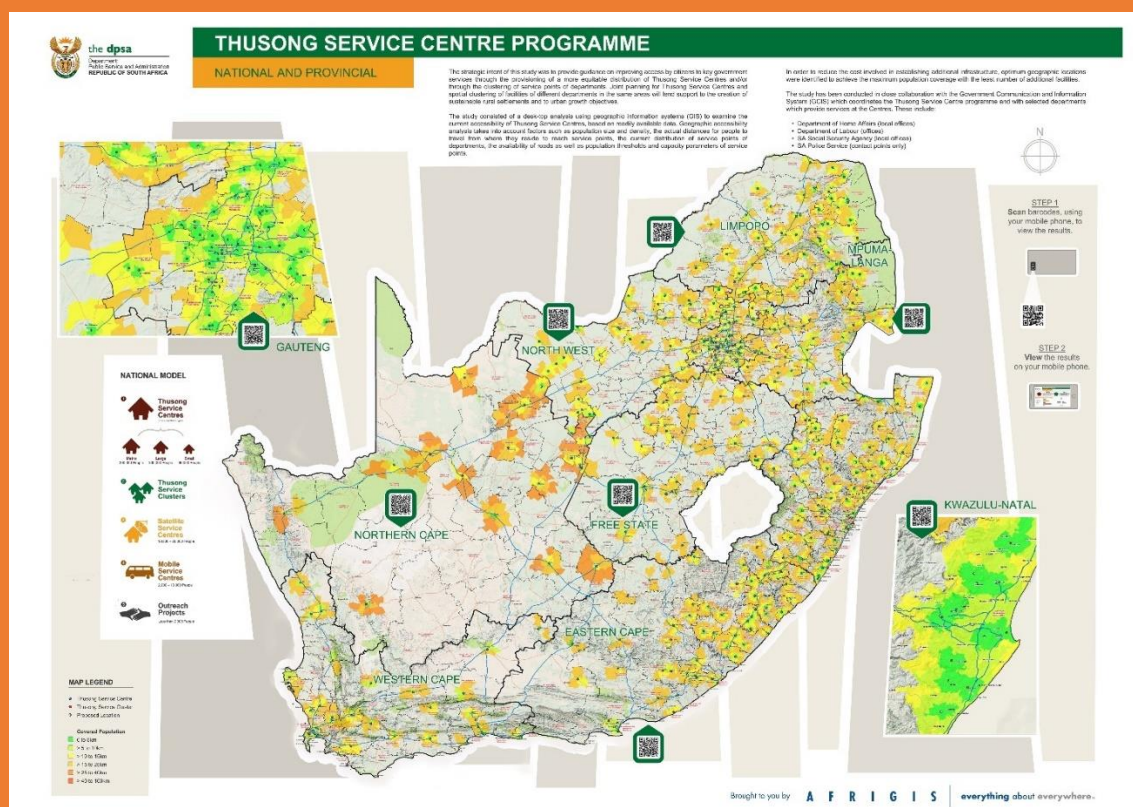


**ZAF\_MP3** *National Geographic Accessibility Analysis – in relation to Thusong Service Centres, South Africa*

Type of material	Paper map with interactive content via QR codes.
Scale (if relevant)	NA
Dimensions (mm)	2 x 1 143 x 841 mm (A0)
Author(s)	AfriGIS and the Department of Public Service and Administration
Published by	AfriGIS
Date of publication	July 2021
Language(s) of the legend	English

**Abstract/Description (in English or French; 100 words max)**

The strategic intent of this study was to provide guidance on improving access by citizens to key government services through the provisioning of a more equitable distribution of Thusong Service Centres and/or through the clustering of service points of departments. The study consisted of a desk-top analysis using geographic information systems to examine the current accessibility of Thusong Service Centres. In order to reduce the cost involved in establishing additional infrastructure, optimum geographic locations were identified to achieve the maximum population coverage with the least number of additional facilities.



## ZAF\_MP4 Population distribution and internal migration patterns in South Africa

Type of material	Paper map
Scale (if relevant)	1:3 500 000
Dimensions (mm)	594x841mm (A1)
Author(s)	University of Pretoria, Department of Geography, Geoinformatics and Meteorology
Published by	University of Pretoria, Department of Geography, Geoinformatics and Meteorology
Date of publication	July 2021
Language(s) of the legend	English

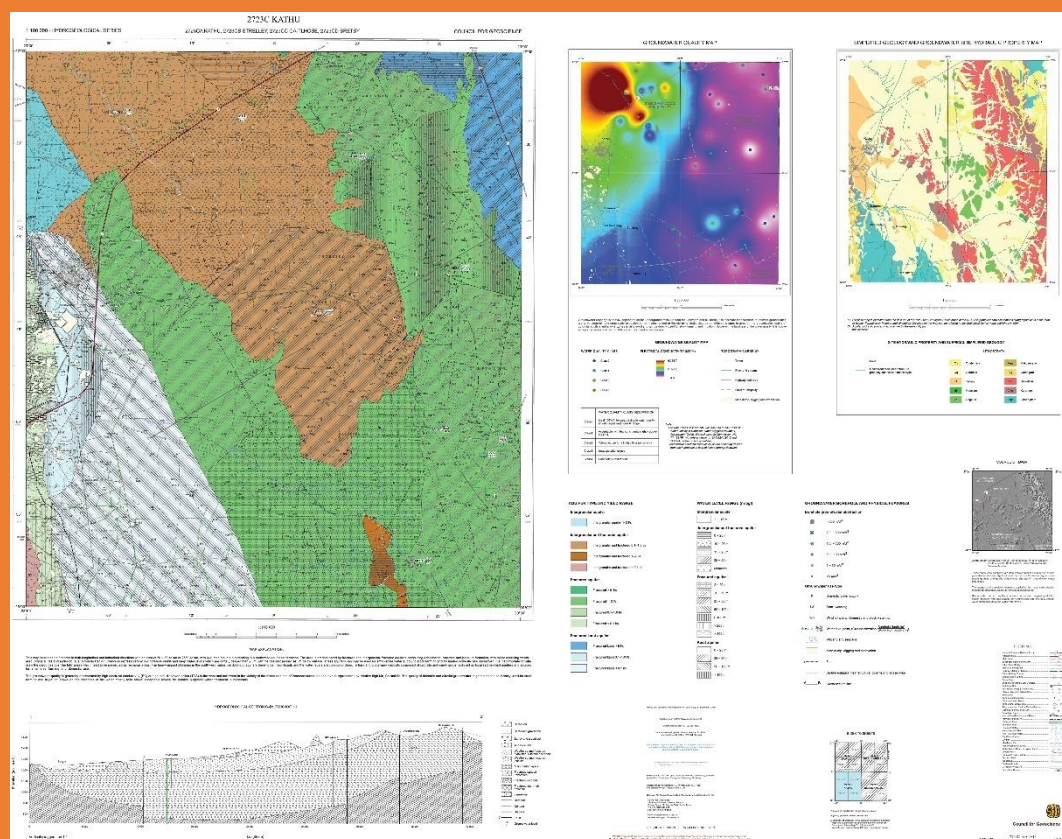


The map and infographics describe South Africa's diversity and continuous change with a specific focus on population distribution and provincial migration patterns. Most South Africans are living in metropolitan areas and it is expected that the ongoing movement of people from rural to urban areas (towns, cities and metro's) will continue to increase. Currently, the landscape of rural areas generally depicts scattered pockets of populated settlements, more generally known as tribal, traditional or farm areas. The map was created in celebration of the 2021 World Population Day and includes population data from both the 2016 Community Survey (Statistics South Africa) and Census 2011 Community Profiles.

## 2723C Kathu Hydrogeological Map

Type of material	Paper
Scale (if relevant)	1:100 000
Dimensions (mm)	A0
Author(s)	L Lin
Published by	Council for Geoscience

<b>Date of publication</b>	31 December 2019
<b>Language(s) of the legend</b>	English
<b>Abstract/Description (in English or French; 100 words max)</b>	The map bestrides half degree in both longitudinal and latitudinal directions with an area of 50 × 55 Sq.km or 2750 Sq. km. with Kuruman mountain extending in a northwest- southeast direction. It is predominated by fractured and intergranular-fractured aquifers comprising Asbesberge ironstone and jasperite formation, with minor overlying weathered Dwyka tillites and andesitic lava. Groundwater occurrence is represented by low borehole yields and deep water levels which are largely deeper than 25 m with the deepest of around 145 m below surface. These aquifers can only be used for small-scale water supply as stock farming and small domestic uses.

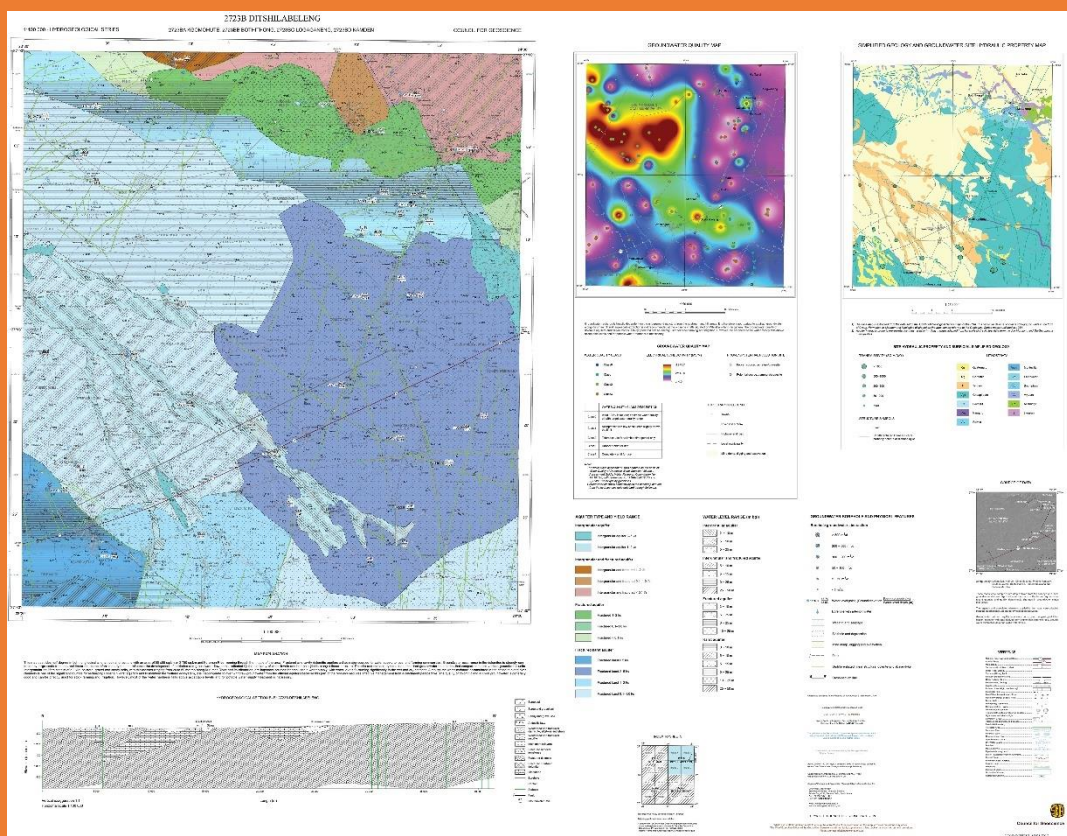


<b>ZAF_MP6</b>	<b>2723B Ditshilabeleng Geohydrogeological map</b>
<b>Type of material</b>	Paper
<b>Scale (if relevant)</b>	1:100 000
<b>Dimensions (mm)</b>	A0
<b>Author(s)</b>	Council for Geoscience, South Africa
<b>Published by</b>	L Lin
<b>Date of publication</b>	31 December 2019
<b>Language(s) of the legend</b>	English



**Abstract/Description (in English or French; 100 words max)**

The map bestrides half degree in both longitudinal and latitudinal directions with an area of 50 × 55 Sq.km or 2750 Sq. km, with Kuruman river running through the middle of the area. Fractured & cavity dolomitic aquifer act as major sources for water supply to local communities and farming. Groundwater occurrence in dolomites is strongly controlled by large-scale fractures and linear structures inferred as dykes that influence the development of sinkholes and groundwater flow paths, reflected by the similarity of water levels and borehole yields along a linear structure. Dolerite and diabase dykes act as important groundwater boundaries that compartmentalise various groundwater units.



**ZAF\_MP7**

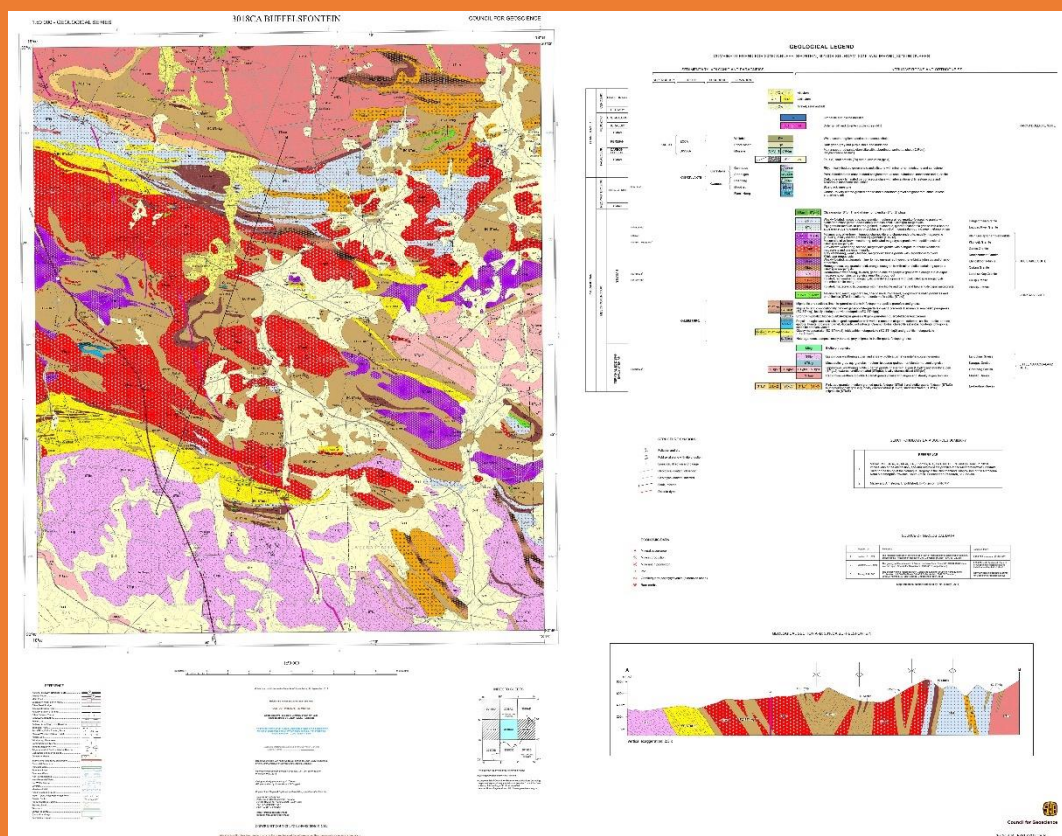
**3018CA Buffelstontein**

Type of material	Paper
Scale (if relevant)	1:50 000
Dimensions (mm)	A0
Author(s)	P H Macy
Published by	Council for Geoscience
Date of publication	30 September 1919
Language(s) of the legend	English



Abstract/Description (in English or French; 100 words max)

The geology of the region between Garies and Kliprand, southern Namaqualand, South Africa.



## ATLASES

ZAF\_AT1

25 Years of Democracy: 2019 Atlas of Results

Type of material	Atlas
Number of pages	362
Dimensions (mm)	420x297mm (A3) in Pdf format
Author(s)	Electoral Commission of South Africa
Published by	Electoral Commission of South Africa
Date of publication	2020
Language(s) of the text	English
Abstract/Description (in English or French; 100 words max)	The Electoral Commission of South Africa is proud to present its fifth edition of the Atlas of Results reflecting a detailed and comprehensive compendium of the outcome of the 2019 National and Provincial Elections. The value and power of this flagship publication lies in the simplified presentation of elections data using a spatial component which transforms the huge data into illustrative and easy-to-understand maps. By further including data from the

previous national and provincial elections from 1999 to the present, the Atlas provides for convenient trend analysis and comparisons over the past five elections.



## DIGITAL SERVICES

ZAF_DS1		CD: NGI Geospatial Geoportal
Type of service	Geoportal, WMS services	
Format (10 words)	Geospatial Portal with web map services.	
Software platform	<ul style="list-style-type: none"> <li>Hexagon Apollo Server</li> <li>Hexagon Geoportal</li> <li>Hexagon Geomedia web-map</li> </ul>	
URL web link	<a href="http://www.cdngiportal.co.za/cdngiportal/">http://www.cdngiportal.co.za/cdngiportal/</a>	
License	Version 16.5.0105 Build 00054	
Author(s)	-	
Published by	CD: NGI, Department of Agriculture, Land Reform and Rural Development	
Date of publication or most recent update	January 2021	
Scale	Various	
Language(s) of the presentation	English	
Abstract/Description (in English or French; 100 words max)	CD: NGI Geospatial Geoportal facility provides a Geographical User Interface (GUI) for CD: NGI clients to interact with geospatial data and to download data content made available in the geoportal. The geoportal will be updated continuously with the latest data content. Limited historical information will be made available however information related thereto will be available, e.g. the full aerial photography library information for research and requisition thereof. The data in the geoportal is arranged	

according to predefined workspace tabs and Catalogue (Catalog) information. The Catalogue (Catalog) contains data for download.



# SPAIN

## MAPS ON PANELS

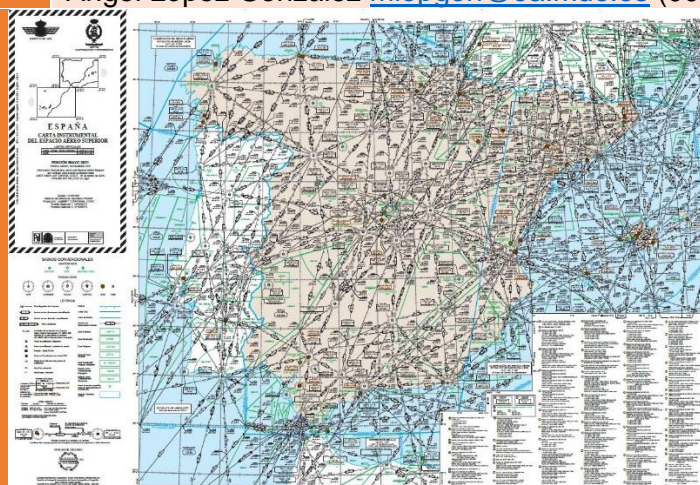
### ESP\_MP1

### Low Flying Chart (LFC) Sheet 8

Type of material	Paper
Scale (if relevant)	1:500,000
Dimensions (mm)	990 X 690
Author(s)	Cartographic and Photographic Centre of the Spanish Air Force (CECAF)
Published by	Spanish Ministry of Defense
Date of publication	May 2021
Language(s) of the legend	Spanish / English

### Abstract/Description (in English or French; 100 words max)

LFC is an aeronautical chart used for mission planning and VFR navigation. The scale, the cartographic projection (Lambert Conformal Conic) and the published geographical features are the required for a visual flight. Aeronautical information comes from both, AIP-Spain and CECAF. Altimetry has been generated by CECAF while planimetry and bathymetry come from different organisms like IGN, CEGET, IHM and CECAF. Elements that can be dangerous for low altitude navigation, obstacles higher than 62 meters high (200 feet), wind farms or power lines are highlighted. In the center of each grid of the map, there is a figure called Maximum Elevation Figure (MEF) indicating elevation in hundreds of feet. Above this altitude, the flight is considered safe from the point of view of obstacle clearance. There are nine sheets of LFC in paper format. The coverage of Sheet 8 is (34°58'N, 05°41'W) – (38°05'N, 00°12'W). Name of the Institution contact: Cartographic and Photographic Centre of the Spanish Air Force (CECAF), Cap. Miguel Ángel López González [mlopqon@ea.mde.es](mailto:mlopqon@ea.mde.es) (0034) 91 6493235



## ESP\_MP2

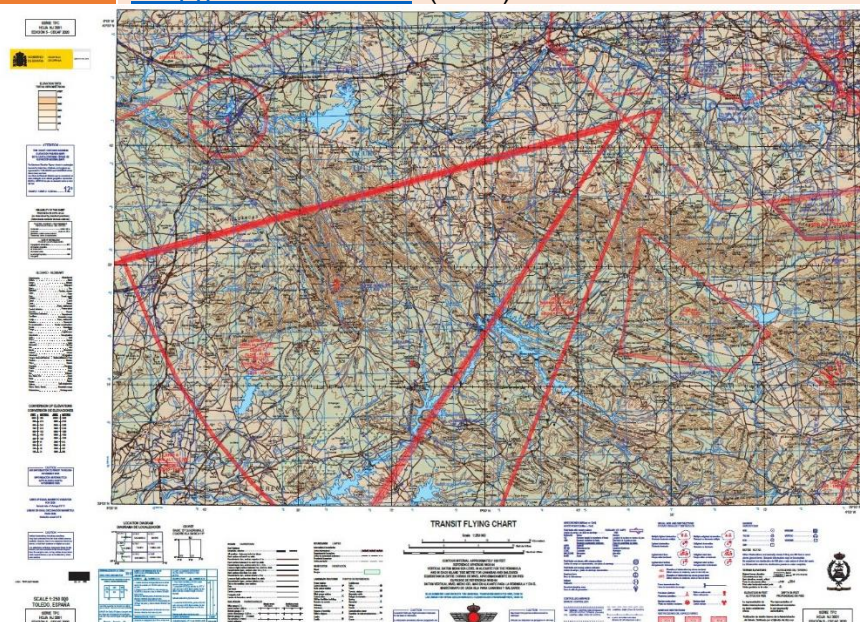
## Transit Flying Chart (TFC) Sheet TOLEDO NJ3001

Type of material	Paper
Scale (if relevant)	1:250,000
Dimensions (mm)	875 X 610
Author(s)	Cartographic and Photographic Centre of the Spanish Air Force (CECAF)
Published by	Spanish Ministry of Defense
Date of publication	2019
Language(s) of the legend	Spanish / English

### Abstract/Description (in English or French; 100 words max)

TFC is an aeronautical chart used for mission planning and VFR navigation. The scale, the cartographic projection (U.T.M.) and the published geographical features are the required for a visual flight. Aeronautical information comes from both, AIP-Spain and CECAF. Altimetry has been generated by CECAF while planimetry and bathymetry come from different organisms like IGN, CEGET, IHM and CECAF. Elements that can be dangerous for low altitude navigation, obstacles higher than 62 meters high (200 feet), wind farms or power lines are highlighted. In the center of each grid of the map, there is a figure called Maximum Elevation Figure (MEF) indicating elevation in hundreds of feet. Above this altitude, the flight is considered safe from the point of view of obstacle clearance. There are 44 sheets of LFC in paper format. The coverage of Sheet NJ3001 is (39°00'N, 08°00'W) – (40°00'N, 06°00'W)

Name of the Institution contact: Cartographic and Photographic Centre of the Spanish Air Force (CECAF), Cap. Miguel Ángel López González  
[mlopgon@ea.mde.es](mailto:mlopgon@ea.mde.es) (0034) 91 6493235





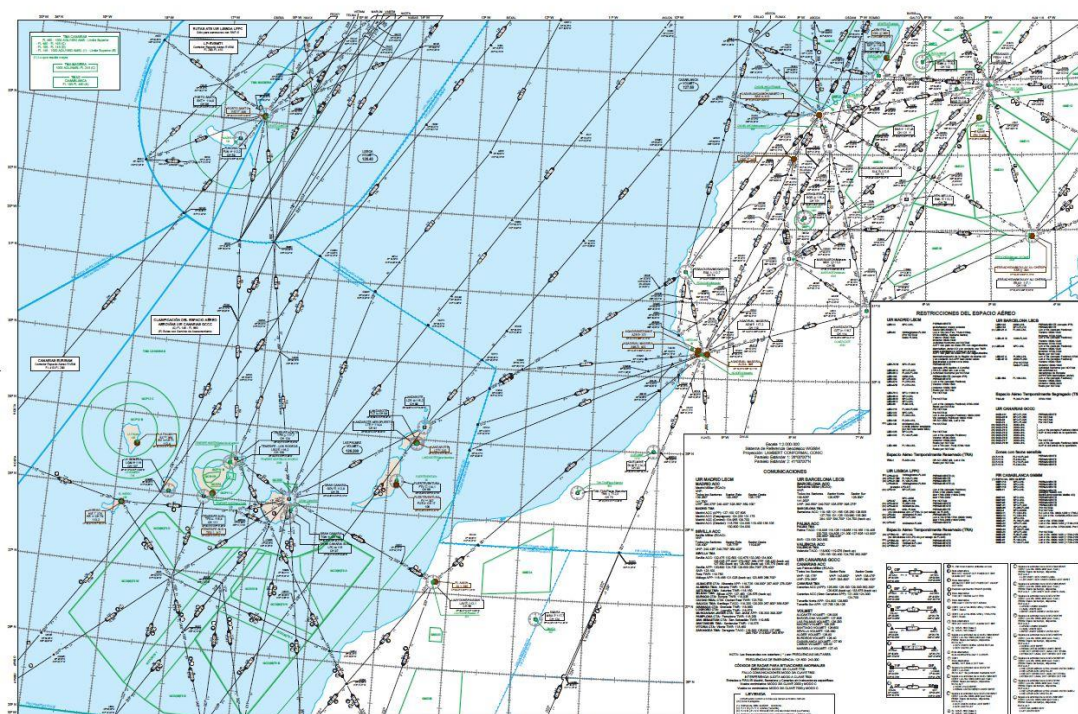
## ESP\_MP3

## IFR Enroute High Altitude Chart

Type of material	Paper
Scale (if relevant)	1:2,000,000
Dimensions (mm)	800 X 550
Author(s)	Cartographic and Photographic Center of the Spanish Air Force (CECAF)
Published by	Spanish Ministry of Defense
Date of publication	May 2021
Language(s) of the legend	Spanish / English

### Abstract/Description (in English or French; 100 words max)

This Enroute High Altitude Chart is an aeronautical chart used for IFR navigation on High altitude above FL195 (Flight Level above 19500 feet). The scale, the cartographic projection (Lambert Conformal Conic) and the published aeronautical features are the required for instrumental flight. Aeronautical information comes from AIP-Spain. There is only one sheet of IFR Enroute High Altitude Chart in paper format. On the front the Iberian Peninsula and Balearic Islands are represented, in the back the Canary Islands. The coverage of this sheet is (34°22'N, 09°59'W) – (43°45'N, 05°15'E) Peninsula and (24°51'N, 18°59'W) – (34°45'N, 03°44'W) Canary Islands. Name of the Institution contact: Cartographic and Photographic Centre of the Spanish Air Force (CECAF), Cap. Miguel Ángel López González [mlopqon@ea.mde.es](mailto:mlopqon@ea.mde.es) (0034) 91 6493235



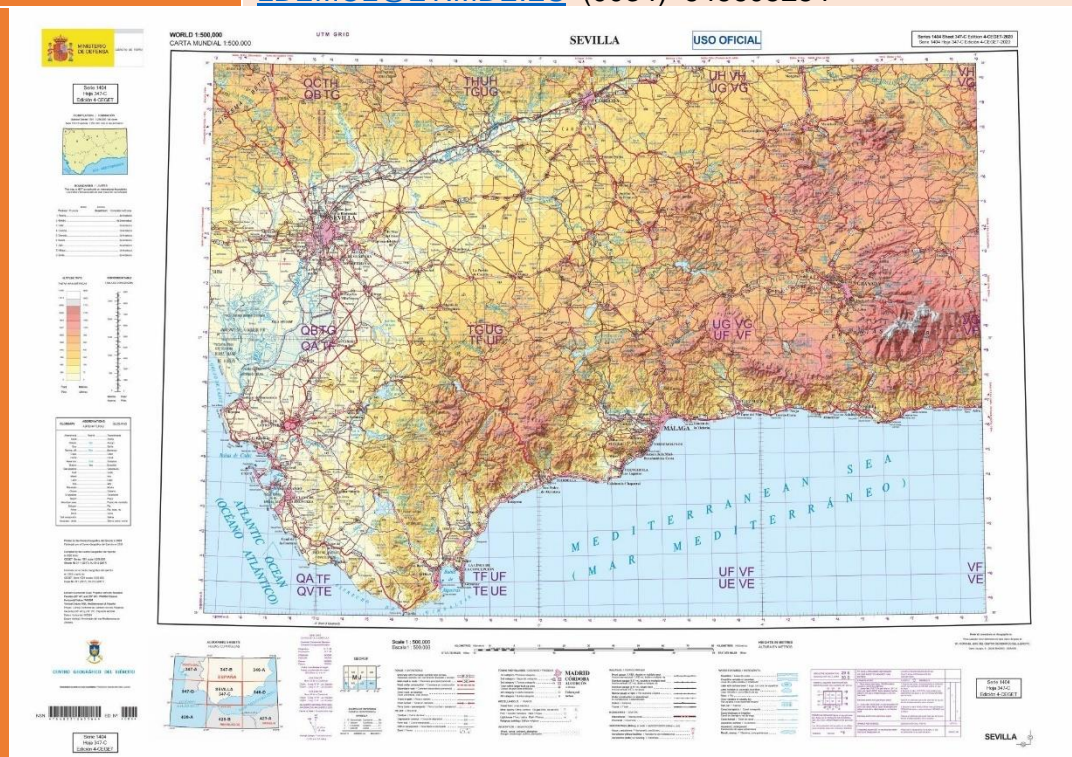


ESP_MP4		M682 Series 14-6 EJEA DE LOS CABALLEROS Edition 1
Type of material	Paper	
Scale (if relevant)	1:100,000	
Dimensions (mm)	780 X 530	
Author(s)	Centro Geográfico del Ejército / Army Geographic Centre (CEGET)	
Published by	Centro Geográfico del Ejército / Army Geographic Centre (CEGET)	
Date of publication	02/02/2021	
Language(s) of the legend	Spanish-English	
Abstract/Description (in English or French; 100 words max)	Military Topographic Raster Map 1:100,000 scale edited from Spanish Harmonized Vector Database BTN100 (IGN-CEGET). The altimetric representation is a contour every 40 m. It's made according to M682 Series specification and Serie C symbology. Name of the Institution contact: Army Geographic Centre (CEGET), Luis Alberto de Miguel Molina <a href="mailto:LDEMOL@ET.MDE.ES">LDEMOL@ET.MDE.ES</a> (0034) 646605284	



ESP_MP5		1404 Series 347-C SEVILLA Edition 4
Type of material	Paper	
Scale (if relevant)	1:500,000	
Dimensions (mm)	870 X 610	
Author(s)	Centro Geográfico del Ejército / Army Geographic Centre (CEGET)	
Published by	Centro Geográfico del Ejército / Army Geographic Centre (CEGET)	

<b>Date of publication</b>	10/06/2020
<b>Language(s) of the legend</b>	English-Spanish
<b>Abstract/Description (in English or French; 100 words max)</b>	Military Topographic Raster Map 1:500,000 scale compiled from CEGET Series 1501 (scale 1:250,000). Lambert Conformal Conic Projection with two Standar Paralles (36°40' and 39°20'). It's made according to 1501 Joint Operations Graphic Ground Series specification and symbology. Name of the Institution contact: Army Geographic Centre (CEGET), Luis Alberto de Miguel Molina <a href="mailto:LDEMOL@ET.MDE.ES">LDEMOL@ET.MDE.ES</a> (0034) 646605284

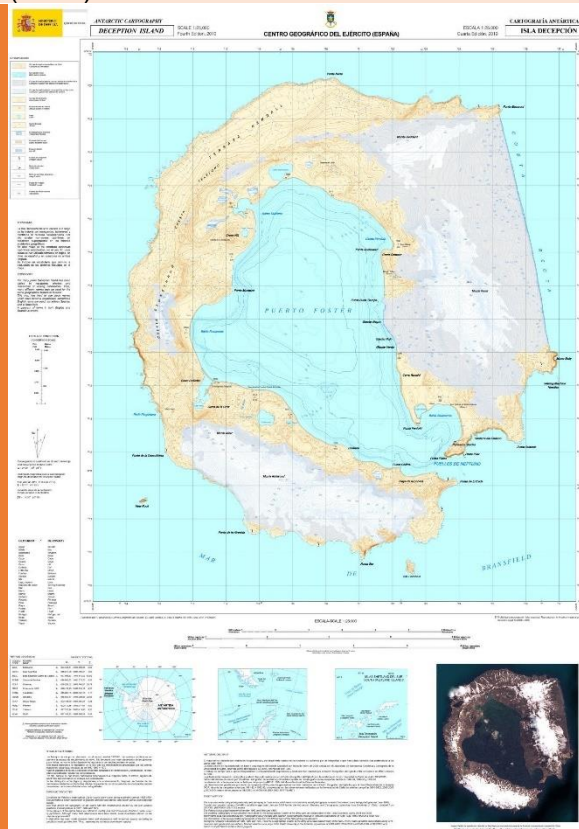


<b>ESP_MP6</b>	<b>Special Series Antarctic Cartography Deception Island Edition 4</b>
<b>Type of material</b>	Paper
<b>Scale (if relevant)</b>	1:25,000
<b>Dimensions (mm)</b>	700 X 1000
<b>Author(s)</b>	Centro Geográfico del Ejército / Army Geographic Centre (CEGET)
<b>Published by</b>	Centro Geográfico del Ejército / Army Geographic Centre (CEGET)
<b>Date of publication</b>	28/08/2019
<b>Language(s) of the legend</b>	English-Spanish



**Abstract/Description  
(in English or French;  
100 words max)**

The map was made using photogrammetry and surveying in those areas which were not covered by aerial photographs or which had altered since being photographed (year 1986). The updated, cartography and publication were made by the Geographical Centre of the Army with the collaboration of the Cádiz University during 2004 and 2005. Name of the Institution contact : Army Geographic Centre (CEGET), Luis Alberto de Miguel Molina [LDEMOL@ET.MDE.ES](mailto:LDEMOL@ET.MDE.ES) (0034) 646605284



**ESP\_MP7**

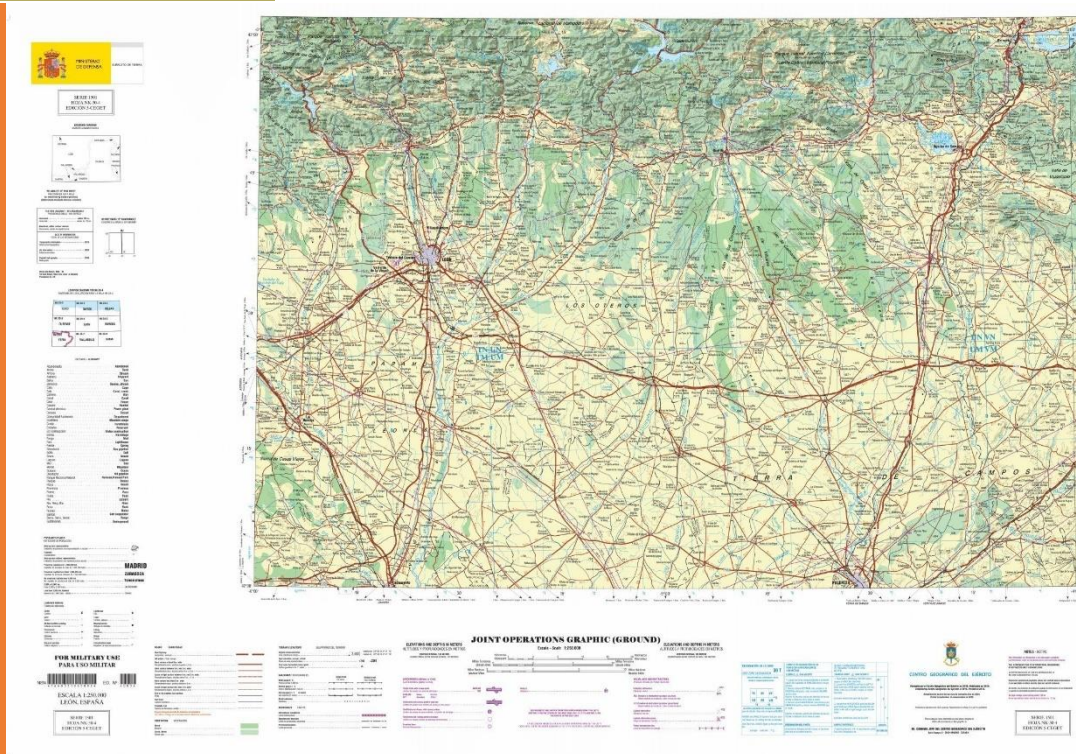
**M7815 Series 28-14 Villanueva de Gallego Edition 2**

Type of material	Paper
Scale (if relevant)	1:50.000
Dimensions (mm)	780 x 530
Author(s)	Centro Geográfico del Ejército / Army Geographic Centre (CEGET)
Published by	Centro Geográfico del Ejército / Army Geographic Centre (CEGET)
Date of publication	13/11/2020
Language(s) of the legend	Spanish/English
Abstract/Description (in English or	Military Topographic Raster Map 1:50,000 scale edited from vector data. Name of the Institution contact : Army Geographic Centre (CEGET), Luis Alberto de Miguel Molina <a href="mailto:LDEMOL@ET.MDE.ES">LDEMOL@ET.MDE.ES</a> (0034) 646605284



[illegible]

Type of material	Paper
Scale (if relevant)	1:250.000
Dimensions (mm)	875 X 610
Author(s)	Centro Geográfico del Ejercito / Army Geographic Centre (CEGET)
Published by	Centro Geográfico del Ejercito / Army Geographic Centre (CEGET)
Date of publication	14/03/2017
Language(s) of the legend	English-Spanish
Abstract/Description (in English or French; 100 words max)	Military Topographic Raster Map 1:250,000 scale edited from M7814 and M7815 generalized vector database. The altimetric representation is a contour every 100 m. It's made according to 1501 Joint Operations Graphic Ground Series specification and symbology. Name of the Institution contact : Army Geographic Centre (CEGET), Luis Alberto de Miquel Molina <a href="mailto:LDEMOL@ET.MDE.ES">LDEMOL@ET.MDE.ES</a> (0034) 646605284



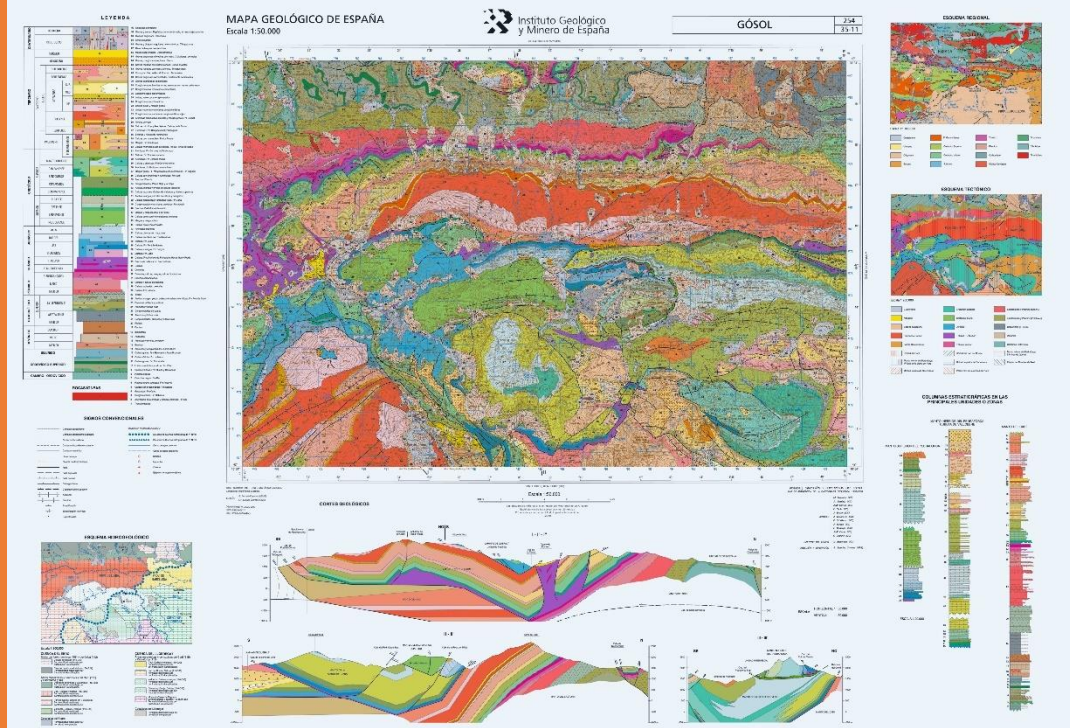
## ESP\_MP9

### Geological Map of Spain. 1:50,000/1:25,000 MAGNA Series. Sheet: 254 Gósol

Type of material	Paper
Scale (if relevant)	1:50.000
Dimensions (mm)	900 Width /700 Height
Author(s)	M. Losantos, A. Martinez; J.M. Samsó et al
Published by	Instituto Geológico y Minero de España / Geological and Mining Institute of Spain (IGME)
Date of publication	12/2020
Language(s) of the legend	Spanish

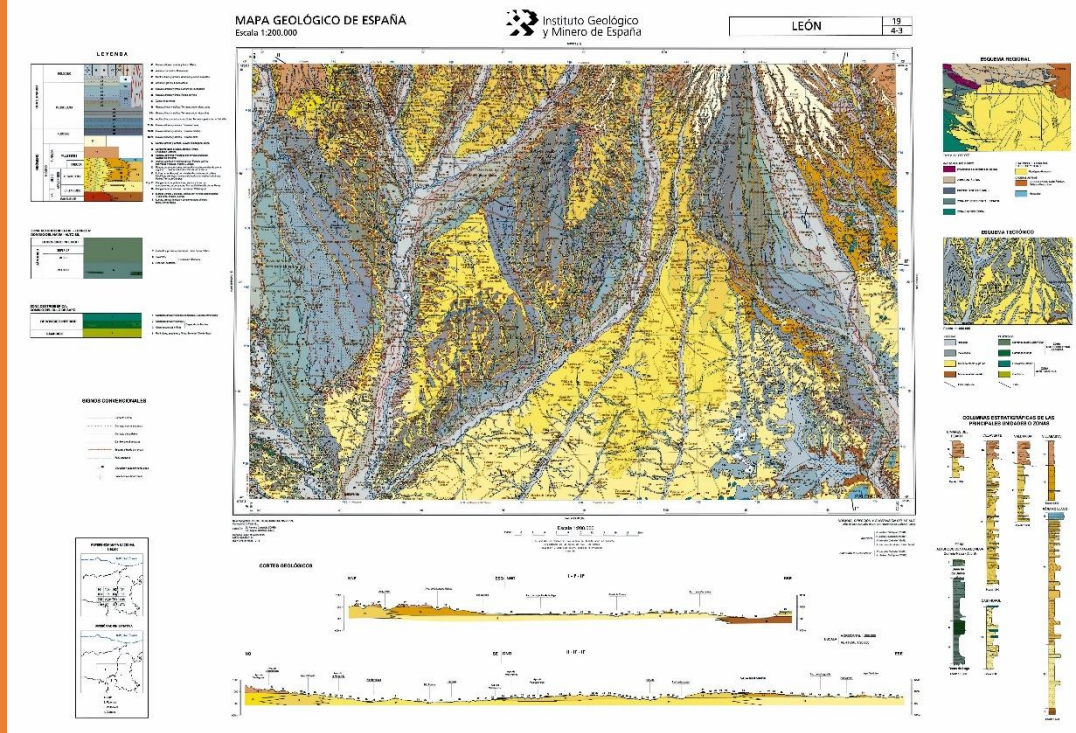
Abstract/Description (in English or French; 100 words max)	The National Geological Map (MAGNA), made by the Geological and Mining Institute of Spain is distributed in sheets 1: 50,000 (1: 25,000 in the particular cases of the Canary Islands, Ibiza-Formentera, Menorca, Ceuta and Melilla). The Geological Map shows the nature of the materials (rocks and sediments) that appear on the earth's surface, their spatial distribution and the geometric relationships between the different cartographic units. Name of the Institution contact: Geological and Mining Institute of Spain (IGME), Dr. Alejandro Robador Moreno <a href="mailto:a.robador@igme.es">a.robador@igme.es</a> (0034) 917287250
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<b>ESP_MP10</b>	<b>Geological Map of Spain. 1:200.000 Series. Sheet: 19 León</b>	
Type of material	Paper	
Scale (if relevant)	1:200.000	
Dimensions (mm)	1000 Width /700 Height	
Author(s)	M. Losantos, A. Martinez; J.M. Samsó et al	
Published by	Instituto Geológico y Minero de España / Geological and Mining Institute of Spain (IGME)	
Date of publication	12/2020	
Language(s) of the legend	Spanish	
Abstract/Description (in English or French; 100 words max)	This systematic series of Geological Maps, made by the Geological and Mining Institute of Spain is distributed in sheets 1: 200.000. These geological maps represent a cartographic synthesis to solve regional geological problems. Name of the Institution contact: Geological and Mining Institute of Spain (IGME), Dr. Alejandro Robador Moreno <a href="mailto:a.robador@igme.es">a.robador@igme.es</a> (0034) 917287250	



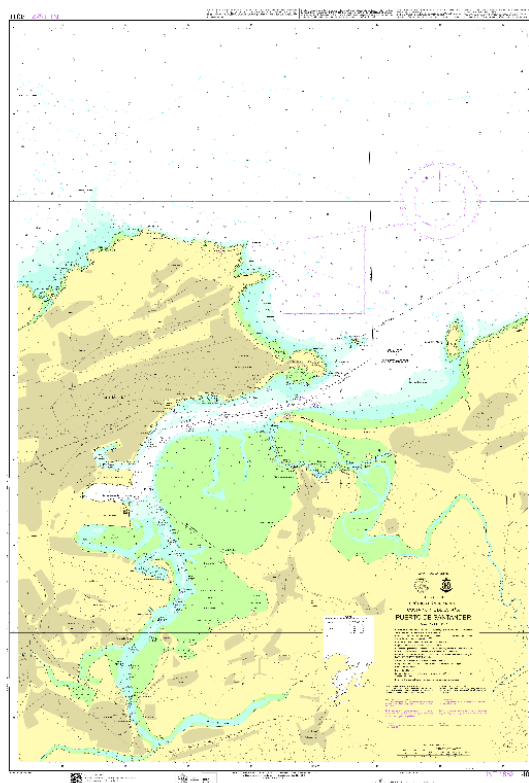


## CHARTS ON PANELS

ESP\_CP1

4011 INT 1852 Puerto de Santander

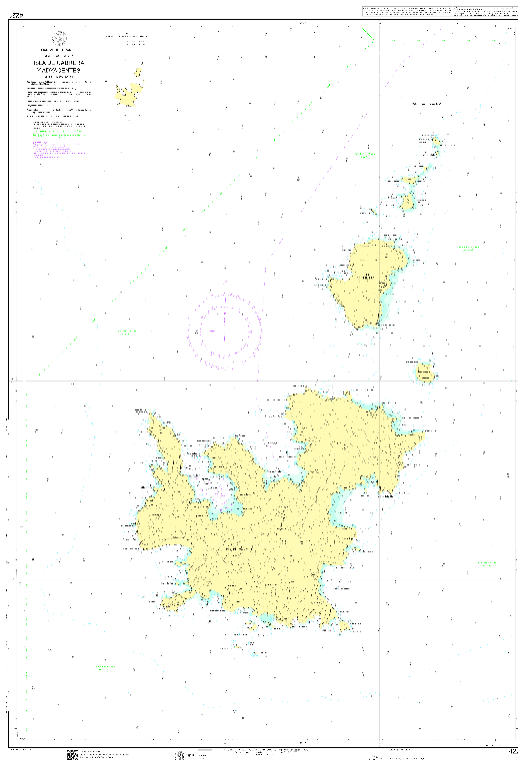
Type of material	Paper
Scale (if relevant)	1:15,000
Dimensions (mm)	728,3 x 1049,2 mm
Author(s)	Instituto Hidrográfico de la Marina (IHM)
Published by	Instituto Hidrográfico de la Marina (IHM)
Date of publication	IV Edition July 2019
Language(s) of the legend	Spanish / English
Abstract/Description (in English or French; 100 words max)	Chart that includes estuaries of Santander and Dockyard with their main ports.



## ESP\_CP2

## 4221 Isla de Cabrera y adyacentes

Type of material	Paper
Scale (if relevant)	1:12,500
Dimensions (mm)	743,2 x 1061,3 mm
Author(s)	Instituto Hidrográfico de la Marina (IHM)
Published by	Instituto Hidrográfico de la Marina (IHM)
Date of publication	III Edition June 2020
Language(s) of the legend	Spanish
Abstract/Description (in English or French; 100 words max)	The island of Cabrera is made up of an archipelago of 19 islets. Cabrera was declared a Terrestrial Maritime National Park in 1991, constituting one of the incredible enclaves that make up the Balearic Islands.

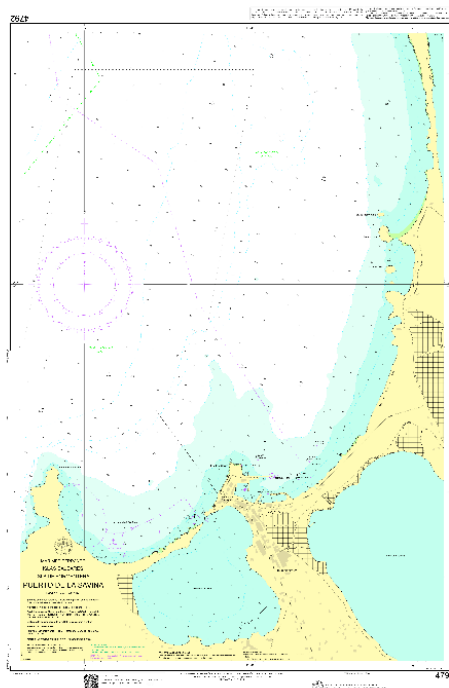


## ESP\_CP3

4792 Puerto de La Savina

Type of material	Paper
Scale (if relevant)	1:7,500
Dimensions (mm)	498.4 x 740.0 mm
Author(s)	Instituto Hidrográfico de la Marina (IHM)
Published by	Instituto Hidrográfico de la Marina (IHM)
Date of publication	II Edition March 2020
Language(s) of the legend	Spanish
Abstract/Description (in English or French; 100 words max)	Boat and commercial harbor to the north of the island of Formentera. This is the only one in the maritime line between this island and Ibiza.

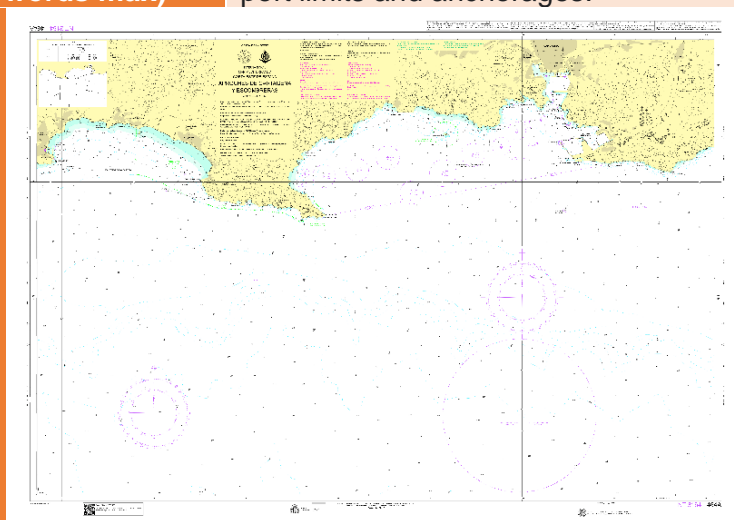




## ESP\_CP4

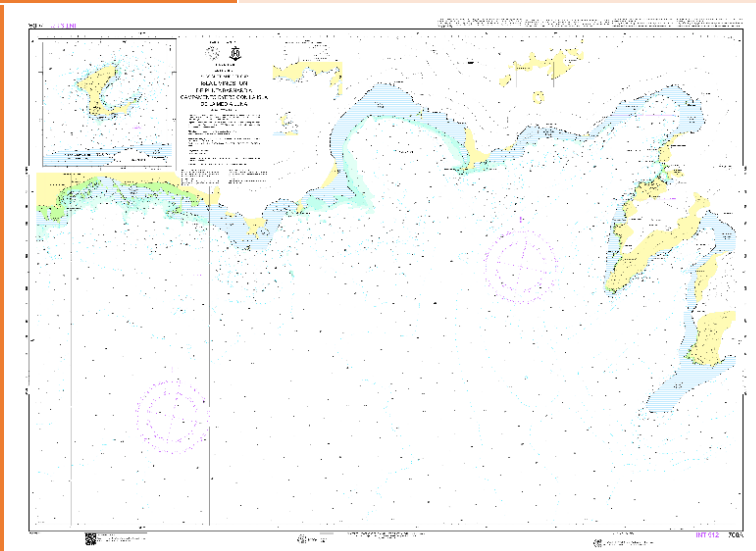
## 464A INT 3164 Aproxes de Cartagena y Escombreras

Type of material	Paper	
Scale (if relevant)	1:30,000	
Dimensions (mm)	1083,2 x 727,7 mm	
Author(s)	Instituto Hidrográfico de la Marina (IHM)	
Published by	Instituto Hidrográfico de la Marina (IHM)	
Date of publication	IX Edition June 2020	
Language(s) of the legend	Spanish / English	
Abstract/Description (in English or French; 100 words max)	Important port and military base in the SE of Spain. Includes port limits and anchorages.	



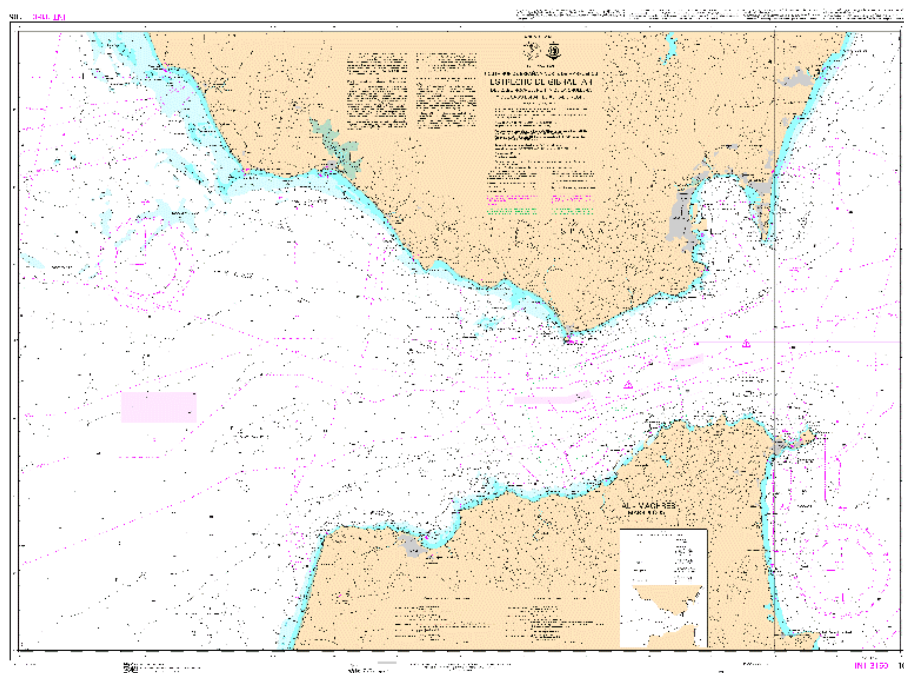
**ESP\_CP5 700A INT 9121 Isla Livingston. De punta Bernard a campamento Byers con la isla de la Media Luna**

Type of material	Paper
Scale (if relevant)	1:40,000 / 1:20,000
Dimensions (mm)	1075,3 x 749,1 mm
Author(s)	Instituto Hidrográfico de la Marina (IHM)
Published by	Instituto Hidrográfico de la Marina (IHM)
Date of publication	I Edition October 2019
Language(s) of the legend	Spanish / English
Abstract/Description (in English or French; 100 words max)	It is the second largest in the South Shetland Islands in Antarctica. Camp Byers is a camp and seasonal base of an international character, but preserved in operational conditions by the personnel of the Juan Carlos I base.105 INT



**ESP\_CP6 105 INT 3150 Estrecho de Gibraltar. Del cabo Roche a punta de La Chullera y del cabo Espartel al cabo Negro**

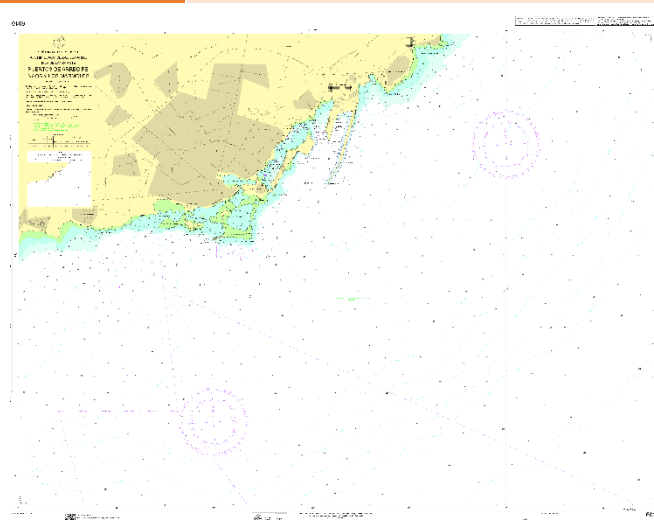
Type of material	Paper
Scale (if relevant)	1:100,000
Dimensions (mm)	1051,9 x 739,7 mm
Author(s)	Instituto Hidrográfico de la Marina (IHM)
Published by	Instituto Hidrográfico de la Marina (IHM)
Date of publication	VI Edition March 2021
Language(s) of the legend	Spanish / English
Abstract/Description (in English or French; 100 words max)	The chart covers the Spanish and Moroccan coasts of the Strait of Gibraltar with its traffic separation scheme.



## ESP\_CP7

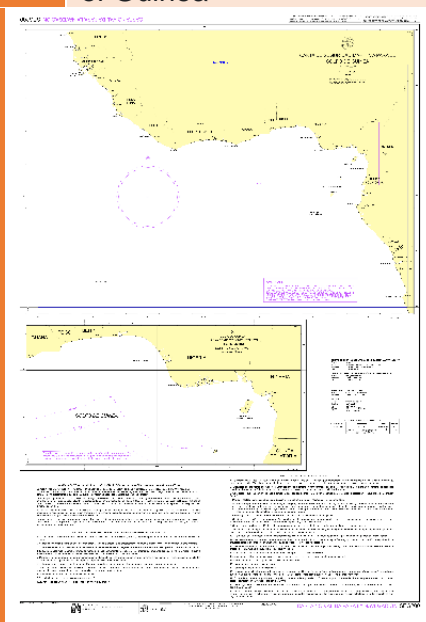
## 6010 Puertos de Arrecife, Naos y los Mármoles

Type of material	Paper
Scale (if relevant)	1:10,000
Dimensions (mm)	1056,1 x 785,1 mm
Author(s)	Instituto Hidrográfico de la Marina (IHM)
Published by	Instituto Hidrográfico de la Marina (IHM)
Date of publication	II Edition October 2019
Language(s) of the legend	Spanish
Abstract/Description (in English or French; 100 words max)	Main route of entry to the island of Lanzarote for both merchandise and passengers.

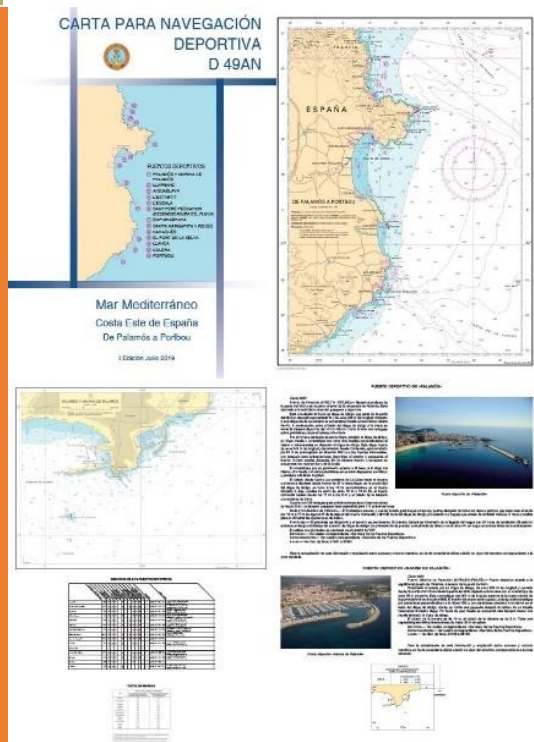




ESP_CP8 <i>SEG200 Carta de seguridad marítima para el Golfo de Guinea</i>	
Type of material	Paper
Scale (if relevant)	1:5,500,000 / 1:2,500,000
Dimensions (mm)	708,4 x 517,4 mm / 590,0 X 253,7 mm
Author(s)	Instituto Hidrográfico de la Marina (IHM)
Published by	Instituto Hidrográfico de la Marina (IHM)
Date of publication	II Edition June 2021
Language(s) of the legend	Spanish
Abstract/Description (in English or French; 100 words max)	Invalid chart for navigation with recommendations to prevent piracy and act in the event of an attack in the Gulf of Guinea



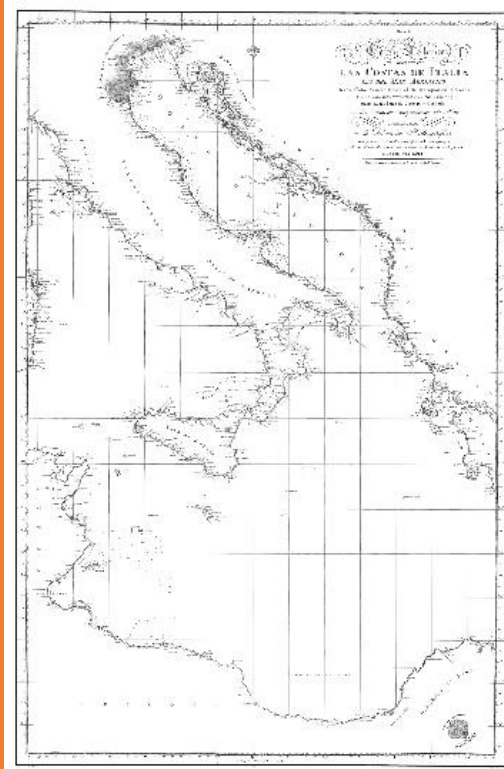
ESP_CP9 <i>D49AS De Vilanova i la Geltrú a Platja d'Aro</i>	
Type of material	Paper
Scale (if relevant)	1:400,000 / various scales
Dimensions (mm)	351,4 x 249,8 mm
Author(s)	Instituto Hidrográfico de la Marina (IHM)
Published by	Instituto Hidrográfico de la Marina (IHM)
Date of publication	I Edition January 2020
Language(s) of the legend	Spanish
Abstract/Description (in English or French; 100 words max)	Includes the charts of the 14 marinas located in the area



## ESP\_CP10

*Spherical chart that includes the coasts of Italy, those of the Adriatic Sea from Cape Venere to Matapan in the Morea and the corresponding areas of Africa; part of the islands of Corsica and Sardinia with others that includes this sea*

Type of material	Paper
Scale (if relevant)	Unknown
Dimensions (mm)	624 x942 mm
Author(s)	Dirección de Hidrografía
Published by	Instituto Hidrográfico de la Marina (IHM)
Date of publication	1824 (Original) 2019 (Facsimile)
Language(s) of the legend	Spanish
Abstract/Description (in English or French; 100 words max)	This chart was printed for the XXI Mediterranean and Black Seas Hydrographic Commission held in Cádiz (June 2019)

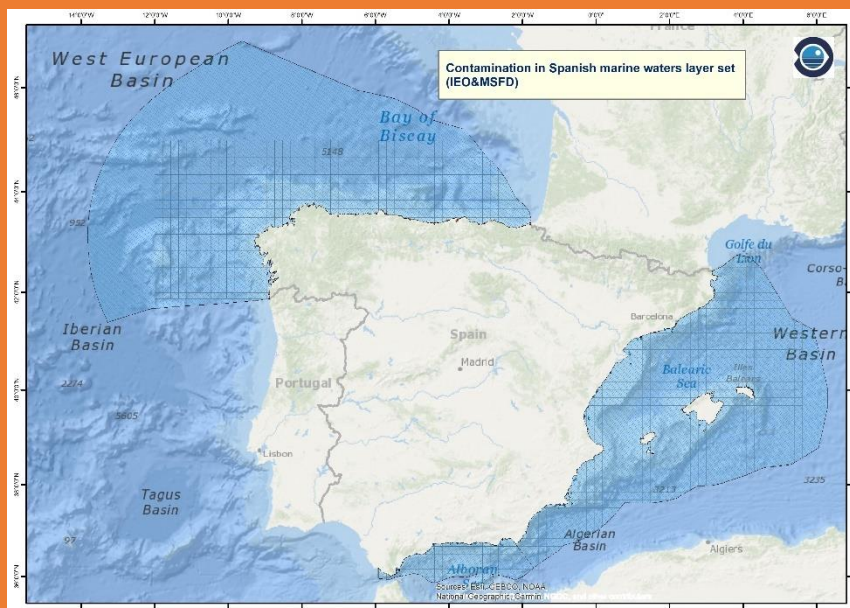


## DIGITAL PRODUCTS

ESP_DP1		Contamination in Spanish marine waters layer set (IEO&MSFD)
Type	Digital spatial dataset	
File format (10 words)	Esri Geodatabase	
Operating system	-	
License	CC by 4.0	
Author(s)	Grupo SIG MARINO-IDEO IEO Spanish Institute of Oceanography / Instituto Español de Oceanografía (IEO)	
Published by	<a href="http://www.ideo-base.ideo.es">www.ideo-base.ideo.es</a> / Spanish Institute of Oceanography / Instituto Español de Oceanografía (IEO)	
Date of publication or most recent update	15/11/2020	
Scale	1:50000	
Language(s) of the presentation	Spanish	
Abstract/Description (in English or French; 100 words max)	Layers representing the spatial distribution of contaminants in mussel, red mullet and sediments of seabed, for the five Spanish Marine Demarcations (MSFD), created with data obtained in the researches carried out by Spanish Institute of Oceanography in the framework of	



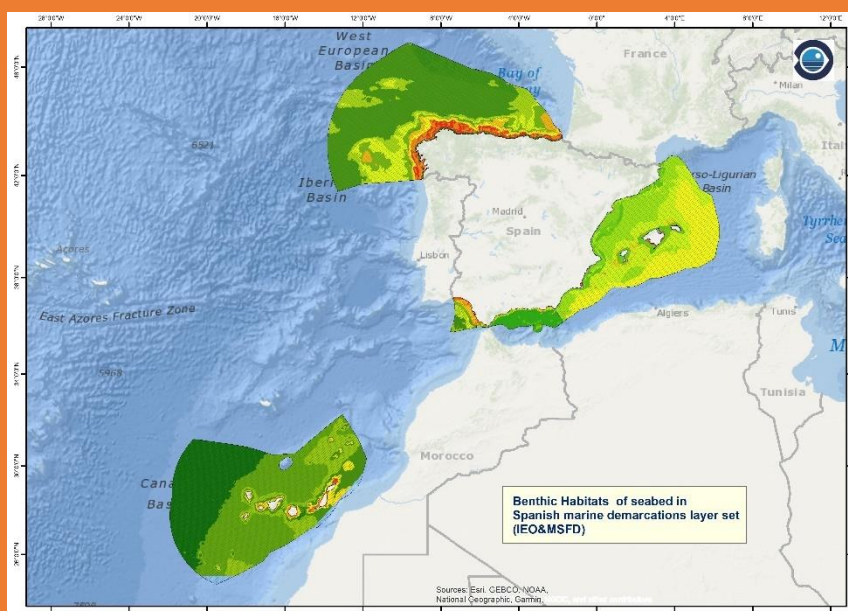
Marine Strategy Framework Directive in 2020. Name of the Institution contact: Spanish Institute of Oceanography (IEO), Maria Gómez Ballesteros [maria.gomez@ieo.es](mailto:maria.gomez@ieo.es) Jefa de Área de Medio marino y Protección Ambiental (0034) 915107516



## ESP\_DP2

### *Benthic Habitats of seabed in Spanish marine demarcations layer set (IEO&MSFD)*

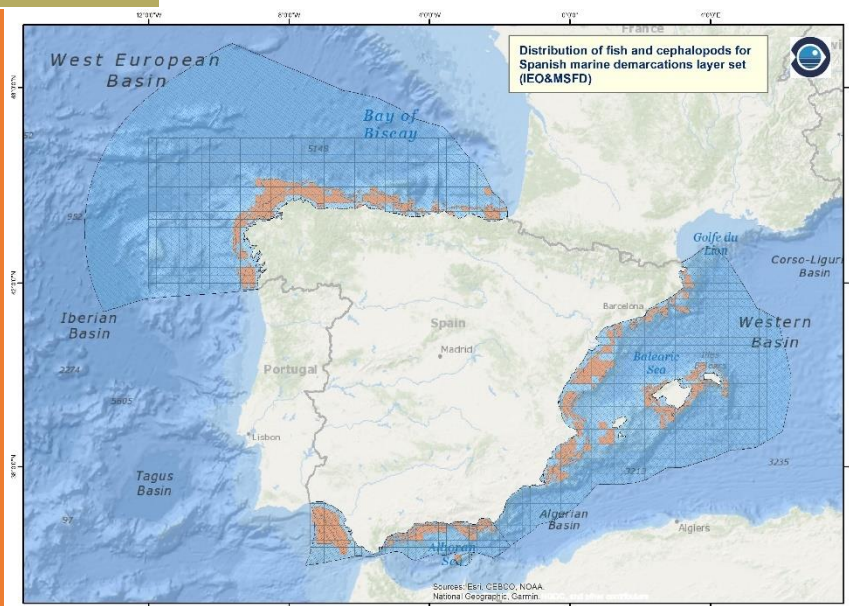
Type	Digital spatial dataset
File format (10 words)	Esri Geodatabase
Operating system	-
License	CC by 4.0
Author(s)	Grupo SIG MARINO-IDEO IEO Spanish Institute of Oceanography / Instituto Español de Oceanografía (IEO)
Published by	<a href="http://www.ideo-base.ieo.es">www.ideo-base.ieo.es</a> / Instituto Español de Oceanografía (IEO)
Date of publication or most recent update	15/11/2020
Scale	1:50000
Language(s) of the presentation	Spanish
Abstract/Description (in English or French; 100 words max)	Layers representing the spatial distribution of benthic habitats of seabed, for the five Spanish Marine Demarcations (MSFD), created with data obtained in the researches carried out by Spanish Institute of Oceanography in the framework of Marine Strategy Framework Directive in 2020. Name of the Institution contact: Spanish Institute of Oceanography (IEO), Maria Gómez Ballesteros <a href="mailto:maria.gomez@ieo.es">maria.gomez@ieo.es</a> Jefa de Área de Medio marino y Protección Ambiental (0034) 915107516



### ESP\_DP3

### Distribution of fish and cephalopods for 5 Spanish marine demarcations layer set (IEO&MSFD)

Type	Digital spatial dataset
File format (10 words)	Esri Geodatabase
Operating system	-
License	CC by 4.0
Author(s)	Grupo SIG MARINO-IDEO IEO Spanish Institute of Oceanography / Instituto Español de Oceanografía (IEO)
Published by	<a href="http://www.ideo-base.ideo.es">www.ideo-base.ideo.es</a> / Instituto Español de Oceanografía (IEO)
Date of publication or most recent update	15/11/2020
Scale	1:50000
Language(s) of the presentation	Spanish
Abstract/Description (in English or French; 100 words max)	Layers representing the spatial distribution of fish and cephalopods for the five Spanish Marine Demarcations (MSFD), created with data obtained in the research carried out by Spanish Institute of Oceanography in the framework of Marine Strategy Framework Directive in 2020. Name of the Institution contact: Spanish Institute of Oceanography (IEO), Maria Gómez Ballesteros <a href="mailto:maria.gomez@ieo.es">maria.gomez@ieo.es</a> Jefa de Área de Medio marino y Protección Ambiental (0034) 915107516

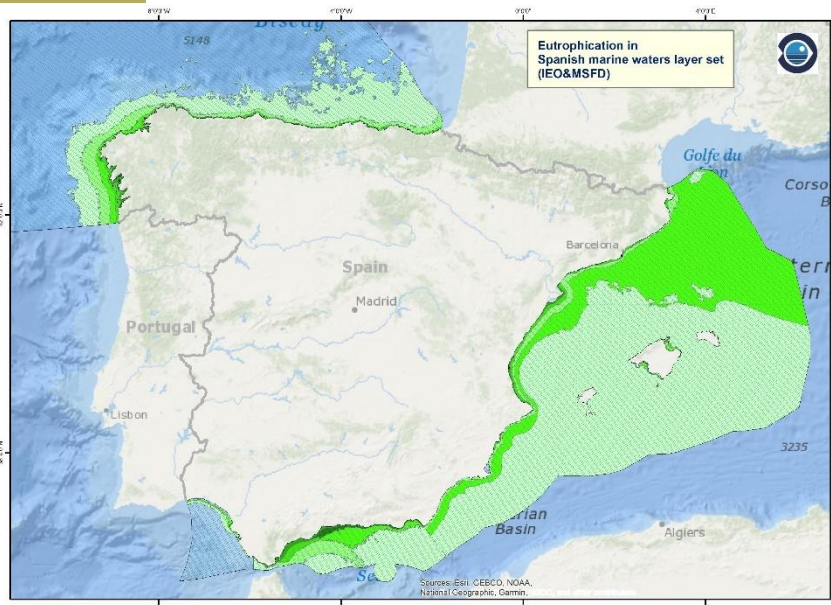


## ESP\_DP4

### Eutrophication in Spanish marine waters layer set (IEO&MSFD)

Type	Digital spatial dataset
File format (10 words)	Esri Geodatabase
Operating system	-
License	CC by 4.0
Author(s)	Grupo SIG MARINO-IDEO IEO Spanish Institute of Oceanography / Instituto Español de Oceanografía (IEO)
Published by	<a href="http://www.ideo-base.ieo.es">www.ideo-base.ieo.es</a> / Instituto Español de Oceanografía (IEO)
Date of publication or most recent update	15/11/2020
Scale	1:50000
Language(s) of the presentation	Spanish
Abstract/Description (in English or French; 100 words max)	Layers representing the spatial distribution of marine waters eutrophication for the five Spanish Marine Demarcations (MSFD), created with data obtained in the research carried out by Spanish Institute of Oceanography in the framework of Marine Strategy Framework Directive in 2020. Name of the Institution contact: Spanish Institute of Oceanography (IEO), Maria Gómez Ballesteros <a href="mailto:maria.gomez@ieo.es">maria.gomez@ieo.es</a> Jefa de Área de Medio marino y Protección Ambiental (0034) 915107516

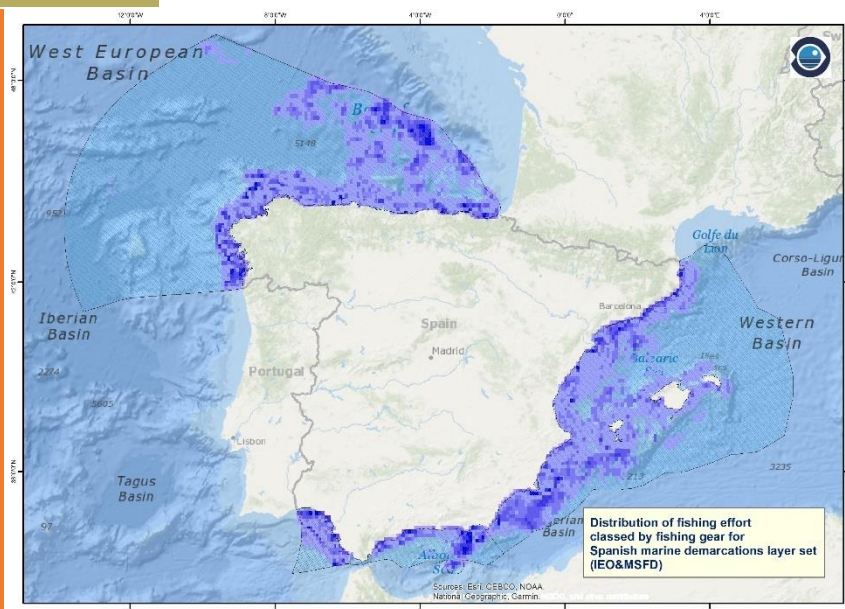




## ESP\_DP5

### Distribution of fishing effort classed by fishing gear for 5 Spanish marine demarcations layer set (IEO&MSFD)

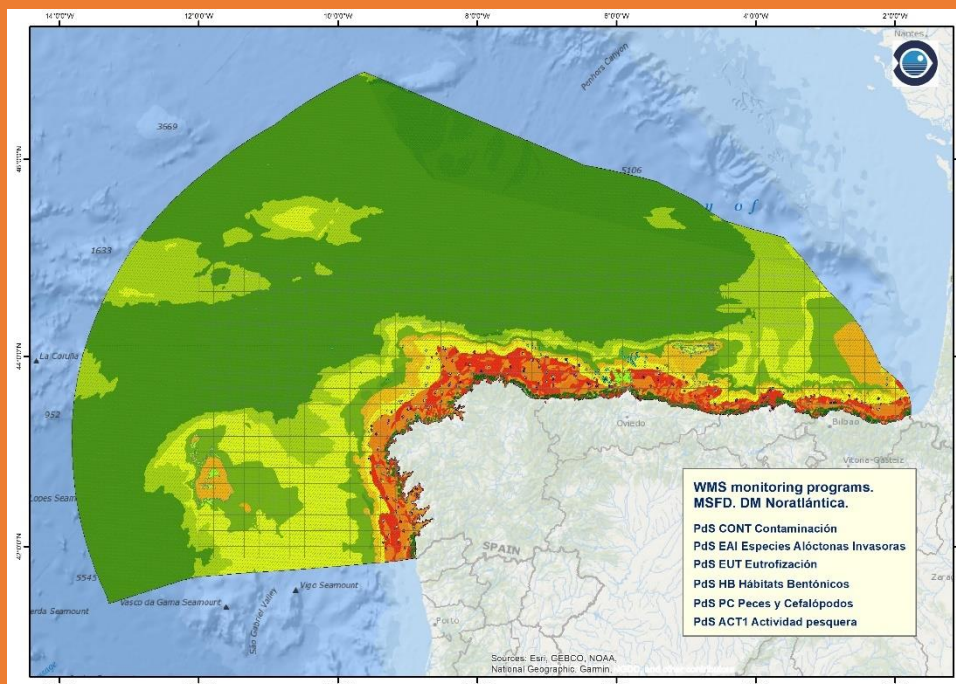
Type	Digital spatial dataset
File format (10 words)	Esri Geodatabase
Operating system	-
License	CC by 4.0
Author(s)	Grupo SIG MARINO-IDEO IEO Spanish Institute of Oceanography / Instituto Español de Oceanografía (IEO)
Published by	<a href="http://www.ideo-base.ideo.es">www.ideo-base.ideo.es</a> / Instituto Español de Oceanografía (IEO)
Date of publication or most recent update	15/11/2020
Scale	1:50000
Language(s) of the presentation	Spanish
Abstract/Description (in English or French; 100 words max)	Layers representing the spatial distribution of fishing effort classed by fishing gear, for 5 Spanish Marine Demarcations (MSFD), created with data obtained in the research carried out by Spanish Institute of Oceanography in the framework of Marine Strategy Framework Directive in 2020 and 2021. Name of the Institution contact: Spanish Institute of Oceanography (IEO), Maria Gómez Ballesteros <a href="mailto:maria.gomez@ieo.es">maria.gomez@ieo.es</a> Jefa de Área de Medio marino y Protección Ambiental (0034) 915107516



## DIGITAL SERVICES

<b>ESP_DS1</b>	<b>WMS of spatial data of monitoring programs of MSFD(IEO) in the Noratlántica Spanish Marine Demarcation</b>
Type of service	Web Map Service
Format (10 words)	Cartographic Web Map Service developed with ESRI software
Software platform	ArcGis Server
URL web link	<a href="http://barretosm.md.ieo.es/arcgis/services/MSFD/Programas_seguinto_EEMM_DM_Noratlantica/MapServer/WmsServer?">http://barretosm.md.ieo.es/arcgis/services/MSFD/Programas_seguinto_EEMM_DM_Noratlantica/MapServer/WmsServer?</a>
License	CC by 4.0
Author(s)	Grupo SIG MARINO-IDEO IEO Spanish Institute of Oceanography / Instituto Español de Oceanografía (IEO)
Published by	Instituto Español de Oceanografía (IEO)
Date of publication or most recent update	05/12/2020
Scale	1:50000
Language(s) of the presentation	Spanish
Abstract/Description (in English or French; 100 words max)	This WMS show the spatial georeferenced data representing of information obtained in the monitoring programs carried out by Spanish Institute of Oceanography about marine litter; contaminants; benthic habitats; fish and cephalopods; marine waters eutrophication and fishing effort, in the framework of Marine Strategy Framework Directive in 2020 for the Noratlántica Spanish Marine Demarcation. Name of the Institution contact: Spanish Institute of Oceanography (IEO), Maria Gómez Ballesteros

[maria.gomez@ieo.es](mailto:maria.gomez@ieo.es) Jefa de Área de Medio marino y Protección Ambiental  
(0034) 915107516



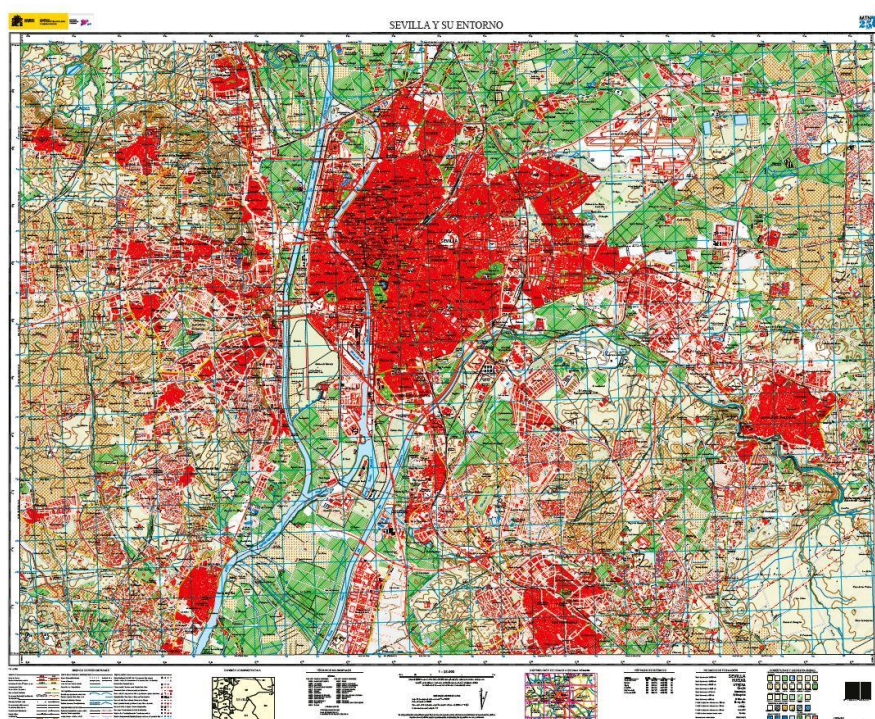


# SPAIN\_IGN

## MAPS ON PANELS

### ESI\_MP1 *National Topographic Map of Seville and its surroundings (Special sheet)*

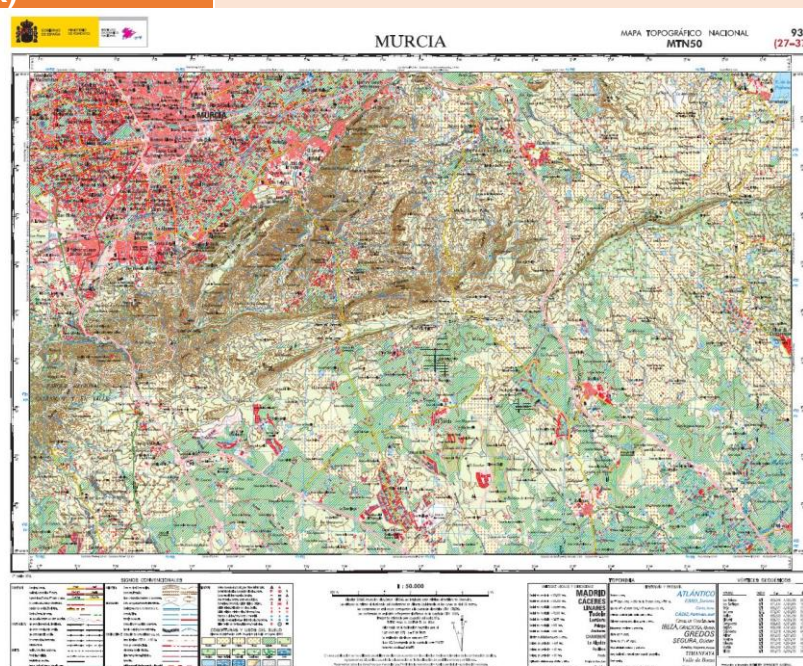
Type of material	Paper
Scale (if relevant)	1:25,000
Dimensions (mm)	1210 x 980 mm
Author(s)	National Geographic Institute of Spain / Instituto Geográfico Nacional España (IGN)
Published by	National Centre for Geographic Information of Spain / Centro Nacional de Información Geográfica España (CNIG)
Date of publication	September, 2021
Language(s) of the legend	Spanish
Abstract/Description (in English or French; 100 words max)	Special map that covers the topography of the city of Seville and its surroundings at a scale of 1: 25,000. Based on the MTN25 series. For a more practical presentation and to facilitate transport and logistics, the map is folded and sleeved due to its dimensions.



## ESI\_MP2

### National Topographic Map of Murcia (Sheet\_934)

Type of material	Paper
Scale (if relevant)	1:50,000
Dimensions (mm)	766 x 520 mm
Author(s)	National Geographic Institute of Spain / Instituto Geográfico Nacional España (IGN)
Published by	National Centre for Geographic Information of Spain / Centro Nacional de Información Geográfica España (CNIG)
Date of publication	January, 2021
Language(s) of the legend	Spanish
Abstract/Description (in English or French; 100 words max)	Classical topographic map at 1:50,000 scale. MTN50 Series.



## ESI\_MP3

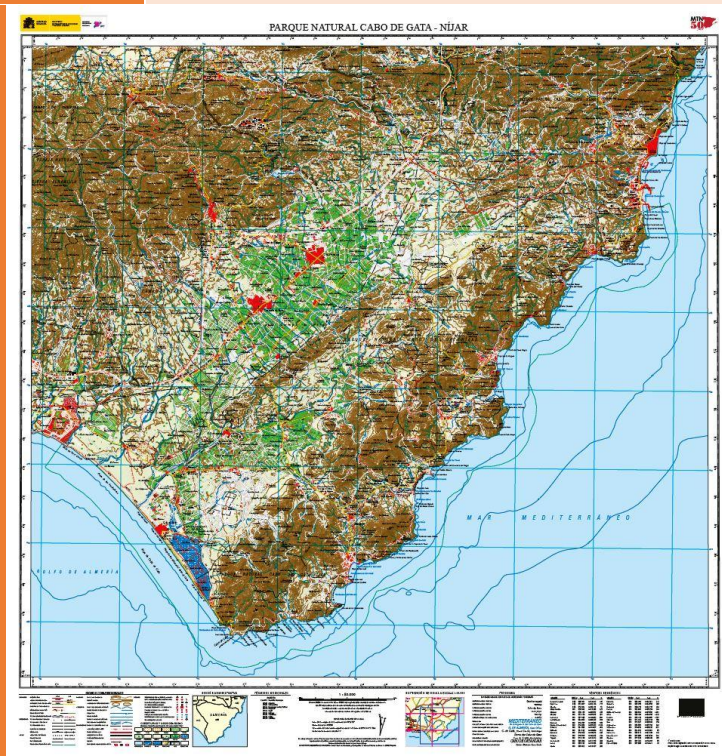
### National Topographic Map of the Natural Park of Cabo de Gata-Níjar (Special sheet)

Type of material	Paper
Scale (if relevant)	1:50,000
Dimensions (mm)	920 x 960 mm
Author(s)	National Geographic Institute of Spain / Instituto Geográfico Nacional España (IGN)
Published by	National Centre for Geographic Information of Spain / Centro Nacional de Información Geográfica España (CNIG)
Date of publication	September, 2021
Language(s) of the legend	Spanish



**Abstract/Description (in English or French; 100 words max)**

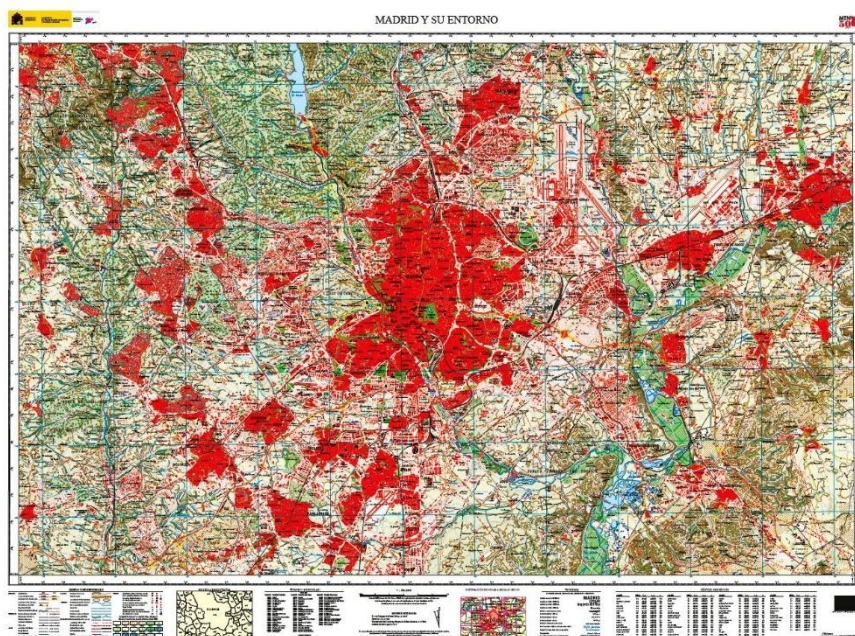
Special map that covers the topography of the Natural Park of Cabo de Gata-Níjar at 1:50,000 scale. Based on the MTN50 Series. For a more practical presentation and to facilitate transport and logistics, the map is folded and sleeved due to its dimensions.



#### ESI\_MP4 National Topographic Map of Madrid and its surroundings (Special sheet)

Type of material	Paper
Scale (if relevant)	1:25,000
Dimensions (mm)	1265 x 940 mm
Author(s)	National Geographic Institute of Spain / Instituto Geográfico Nacional España (IGN)
Published by	National Centre for Geographic Information of Spain / Centro Nacional de Información Geográfica España (CNIG)
Date of publication	September, 2021
Language(s) of the legend	Spanish
Abstract/Description (in English or French; 100 words max)	Special map that covers the topography of the city of Madrid and its surroundings at 1:25,000 scale. Based on the MTN25 Series. For a more practical presentation and to facilitate transport and logistics, the map is folded and sleeved due to its dimensions.

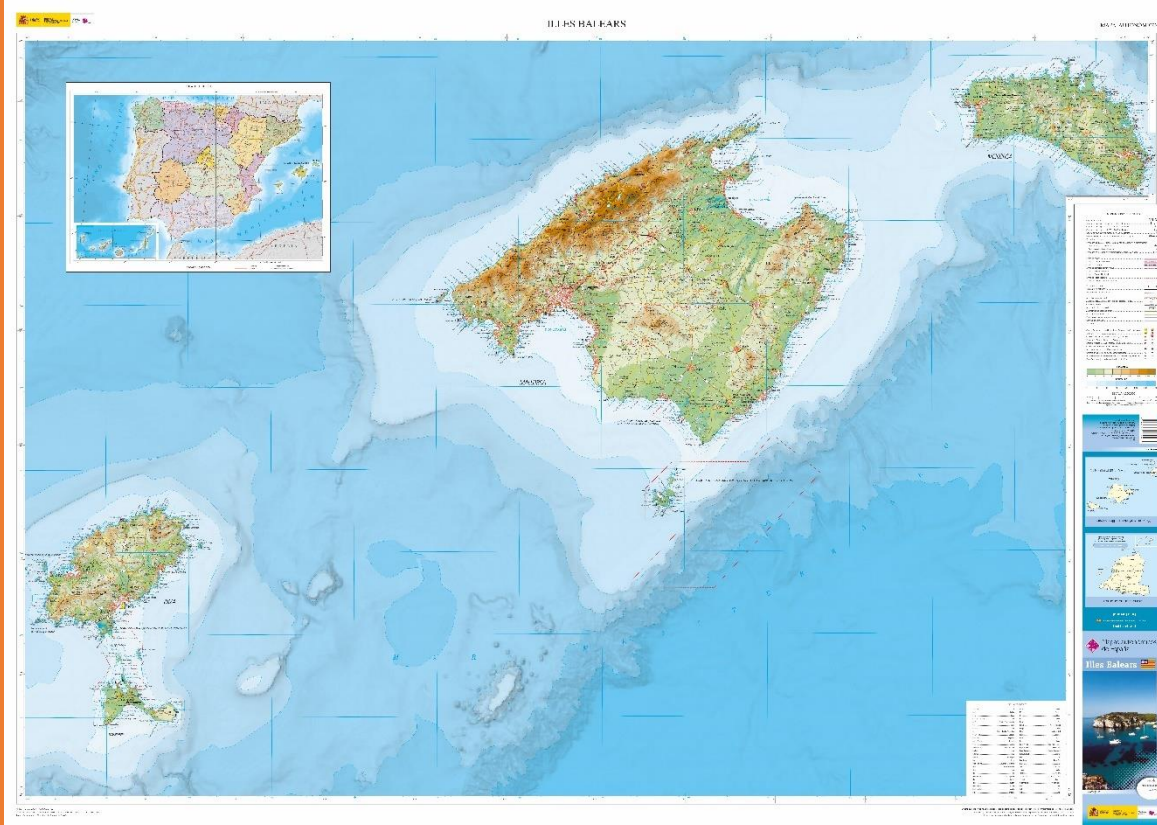




## ESI\_MP5

### *Regional (Autonomous) Map of the Balearic Islands*

Type of material	Paper
Scale (if relevant)	1:200,000
Dimensions (mm)	1400 x 1000 mm
Author(s)	National Geographic Institute of Spain / Instituto Geográfico Nacional España (IGN)
Published by	National Centre for Geographic Information of Spain / Centro Nacional de Información Geográfica España (CNIG)
Date of publication	June, 2021
Language(s) of the legend	Spanish
Abstract/Description (in English or French; 100 words max)	Topographic map of the Balearic Islands at a scale of 1: 200,000 with terrestrial and marine relief represented by hypsometric and bathymetric inks, respectively.



## ESI\_MP6 *Regional (Autonomous) Map of the Canary Islands*

Type of material	Paper
Scale (if relevant)	1:350,000
Dimensions (mm)	1400 x 700 mm
Author(s)	National Geographic Institute of Spain / Instituto Geográfico Nacional España (IGN) (in co-production with GRAFCAN, the regional mapping agency of the Canary Islands)
Published by	National Centre for Geographic Information of Spain / Centro Nacional de Información Geográfica España (CNIG)
Date of publication	December, 2020
Language(s) of the legend	Spanish
Abstract/Description (in English or French; 100 words max)	Topographic map of the Canarian Islands at a scale of 1:350,000 with terrestrial and marine relief represented by hypsometric and bathymetric inks, respectively

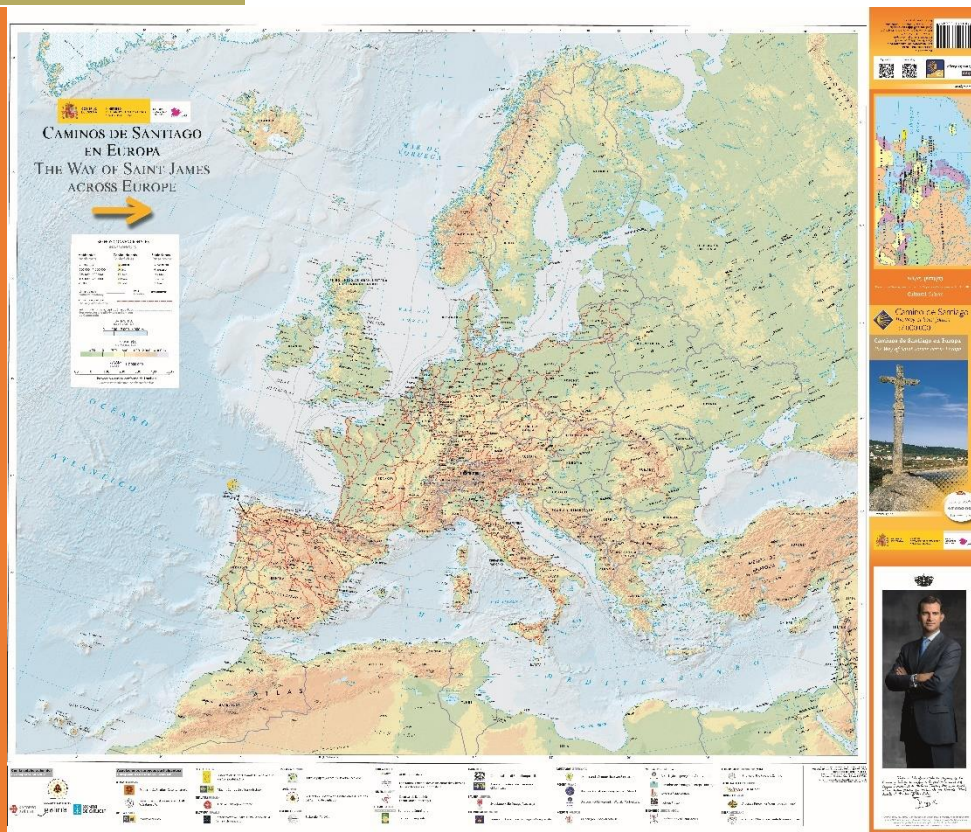


## ESI\_MP7

### [The Way of Saint James across Europe]

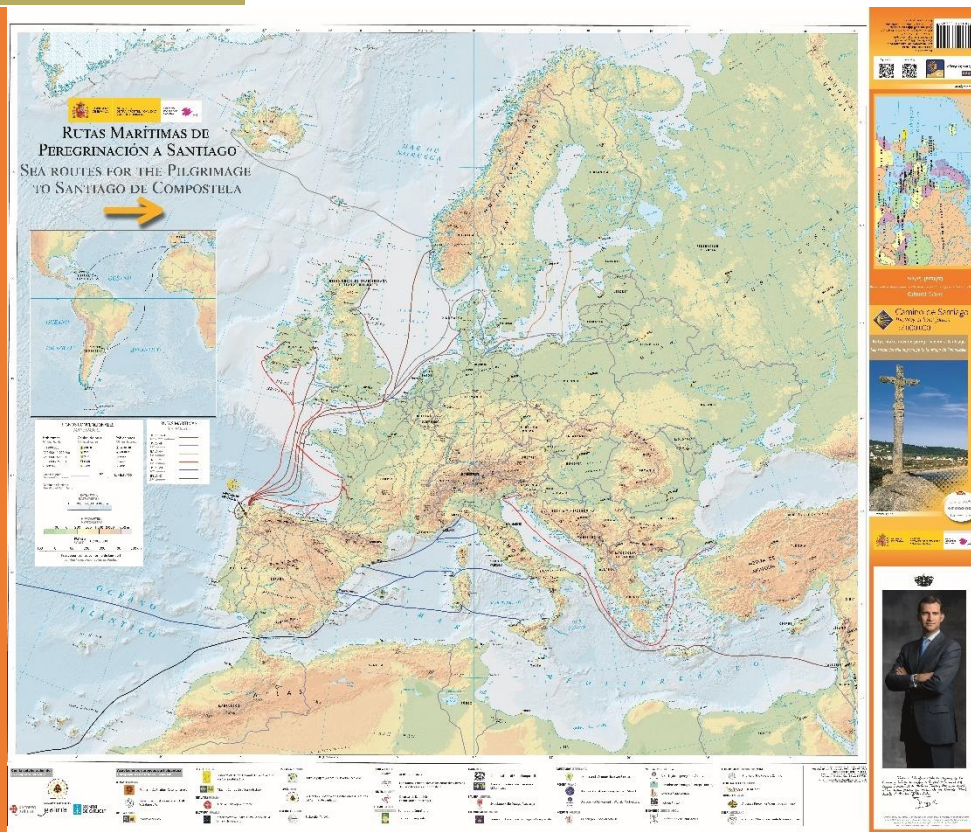
Type of material	Paper
Scale (if relevant)	1:7,000,000
Dimensions (mm)	929 x 779 mm
Author(s)	National Geographic Institute of Spain / Instituto Geográfico Nacional España (IGN)
Published by	National Centre for Geographic Information of Spain / Centro Nacional de Información Geográfica España (CNIG)
Date of publication	December 2020
Language(s) of the legend	Spanish / English
Abstract/Description (in English or French; 100 words max)	This map shows the land routes that have crossed Europe over the centuries and have served to carry out the pilgrimage to Santiago de Compostela (Spain). The data have been provided by the different national associations and brought together by the Spanish Association of the Way of Saint James, and the map has been drawn up by the National Geographic Institute of Spain.





## ESI\_MP8 Sea Routes for the Pilgrimage to Santiago de Compostela

Type of material	Paper
Scale (if relevant)	1:7,000,000
Dimensions (mm)	929 x 779 mm
Author(s)	National Geographic Institute of Spain / Instituto Geográfico Nacional España (IGN)
Published by	National Centre for Geographic Information of Spain / Centro Nacional de Información Geográfica España (CNIG)
Date of publication	December 2020
Language(s) of the legend	Spanish / English
Abstract/Description (in English or French; 100 words max)	This map shows the sea routes that have crossed Europe over the centuries and have served to carry out the pilgrimage to Santiago de Compostela (Spain). The routes are shown in different colours depending on the century and are accompanied by an explanatory text about the different people and places that have played an important role in this task throughout history.



## ATLASES

ESI\_AT1

*The COVID-19 pandemic in Spain.*

*First Wave: from the first cases to the end of June 2020*

Type of material	Paper
Number of pages	160
Dimensions (mm)	260 x 365 mm
Author(s)	National Geographic Institute of Spain / Instituto Geográfico Nacional España (IGN)
Published by	National Centre for Geographic Information of Spain / Centro Nacional de Información Geográfica España (CNIG)
Date of publication	November 2021
Language(s) of the text	Spanish



**Abstract/Description (in  
English or French; 100 words  
max)**

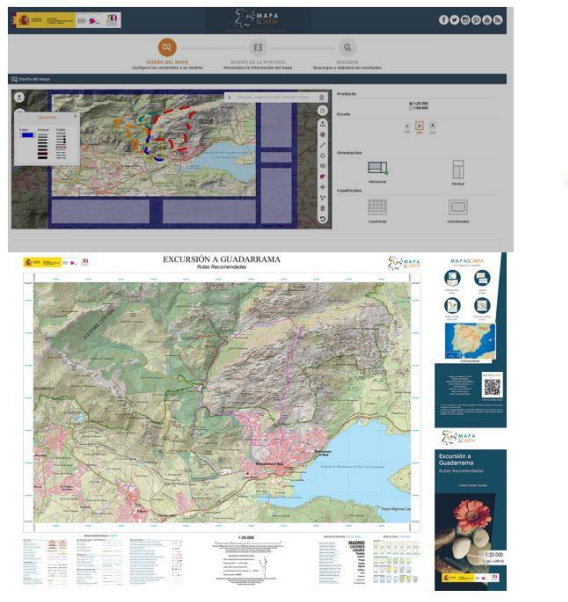
This monograph of the National Atlas of Spain presents a brief summary of the most relevant aspects of the coronavirus pandemic in Spain during the first half of 2020. It begins with a general introduction on the impact of the pandemic in the world and in the European Union. It then delves into the health and demographic aspects of the pandemic in Spain from January to July 2020. Finally, it addresses the consequences of the pandemic in Spain, with emphasis on territorial governance, economy, labour market, Treasury, transport, education and environment.



## DIGITAL PRODUCTS

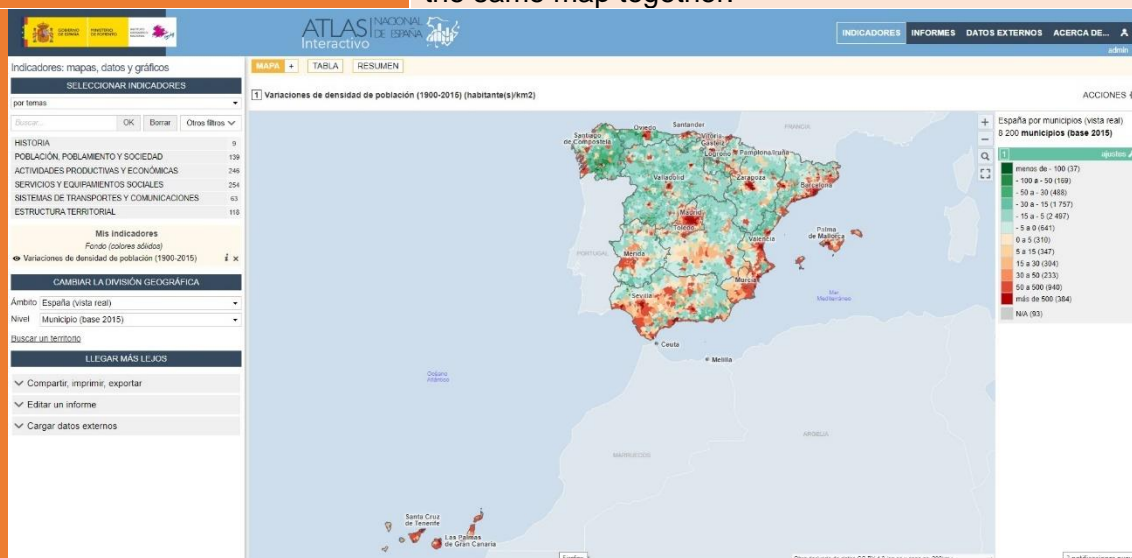
ESI_DP1 <i>Custom Made Maps Web Application</i>	
Type	Web Application <a href="https://mapaalacarta.cnig.es/">https://mapaalacarta.cnig.es/</a>
File format (10 words)	Resulting map is a PDF
Operating system	Web server Apache Tomcat
License	CC by 4.0. <a href="http://www.ign.es/resources/licencia/Condiciones_licenciaUso IGN.pdf">http://www.ign.es/resources/licencia/Condiciones_licenciaUso IGN.pdf</a>
Author(s)	National Centre for Geographic Information of Spain / Centro Nacional de Información Geográfica España (CNIG)
Published by	National Centre for Geographic Information of Spain / Centro Nacional de Información Geográfica España (CNIG)
Date of publication or most recent update	March 2021
Scale	From 1:20k to 1:60k



<b>Language(s) of the presentation</b>	Spanish	
<b>Abstract/Description (in English or French; 100 words max)</b>	Web Application that allows users to create their own personalized maps using the National Topographic Map of Spain as base. It has two versions, basic and advanced, the basic allows to create maps in very few clicks and the advanced has a higher configuration. It is possible to configure the location, scale, frame colours, to load and draw geometries, etc. The resulting map can be downloaded at high resolution in a PDF format and for free and, can be also, be purchased for home delivery in a paper format.	
		

ESI_DP2		Interactive National Atlas of Spain
<b>Type</b>	Web Application	<a href="https://interactivo-atlasnacional.ign.es/">https://interactivo-atlasnacional.ign.es/</a>
<b>File format (10 words)</b>	-	
<b>Operating system</b>	-	
<b>License</b>	CC by 4.0	<a href="http://interactivo-atlasnacional.ign.es/#c=contact">http://interactivo-atlasnacional.ign.es/#c=contact</a>
<b>Author(s)</b>	National Geographic Institute of Spain / Instituto Geográfico Nacional España (IGN)	
<b>Published by</b>	National Centre for Geographic Information of Spain / Centro Nacional de Información Geográfica España (CNIG)	
<b>Date of publication or most recent update</b>	2020	
<b>Scale</b>	Large scales.	1:2,000,000
<b>Language(s) of the presentation</b>	Spanish	
<b>Abstract/Description (in English or French; 100 words max)</b>	Web Application that shows thematic maps of more than 500 statistical indicator from the National Atlas of Spain. There are proportional symbols maps, choropleths, and sector-	

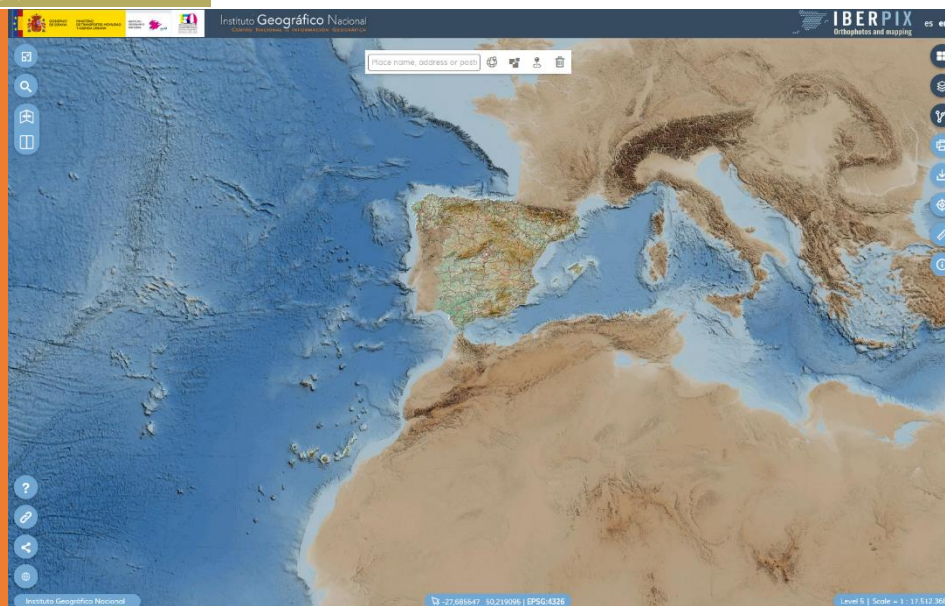
symbol maps. User can also load their own statistical data and create their thematic maps. The resulting map is interactive, it is possible to navigate, see the data, and get graphics, print, and share. Some indicators can be shown on the same map together.



## ESI\_DP3

### Iberpix (Cartographic and spatial data Viewer)

Type	Web Application <a href="http://www.ign.es/iberpix/visor">http://www.ign.es/iberpix/visor</a>
File format (10 words)	Online maps – PDF printed Maps – JPG+JGW images
Operating system	All operating systems
License	CC by 4.0 ign.es
Author(s)	National Centre for Geographic Information of Spain / Centro Nacional de Información Geográfica España (CNIG)
Published by	National Centre for Geographic Information of Spain / Centro Nacional de Información Geográfica España (CNIG)
Date of publication or most recent update	July 2021
Scale	Small to large scales
Language(s) of the presentation	Spanish
Abstract/Description (in English or French; 100 words max)	Iberpix is a geographic viewer whose objective is to visualize and query maps and geographic information layers. Some of the information that can be found on Iberpix, includes the national series of the National Topographic Map, orthophotos and land occupation data from the PNOA and the SIOSE projects. It also allows you to print maps, download images, and draw and edit user tracks.



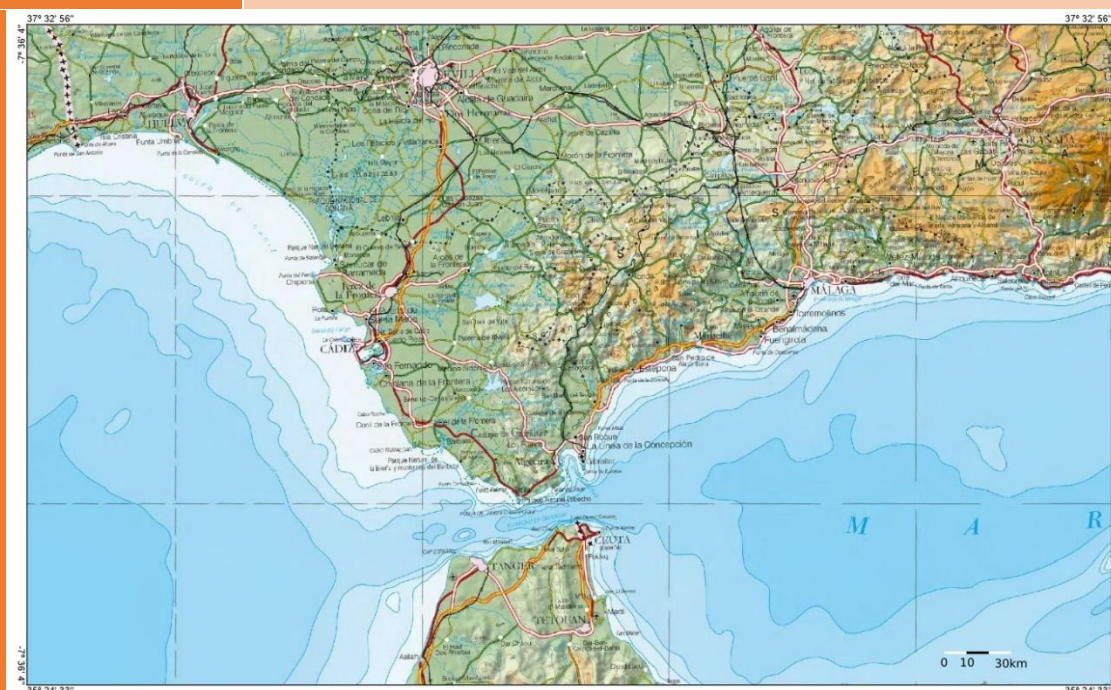
## DIGITAL SERVICES

ESI_DS1	WMTS of raster maps from National Geographic Institute of Spain (IGN)
Type of service	Web Map Tile Service
Format (10 words)	Cartographic Web Map Tile Service developed with Geoserver GeoWebCache software
Software platform	GeoWebCache <a href="https://www.geowebcache.org/">https://www.geowebcache.org/</a>
URL web link	<a href="https://www.ign.es/wmts/mapa-raster?request=GetCapabilities&amp;service=WMTS">https://www.ign.es/wmts/mapa-raster?request=GetCapabilities&amp;service=WMTS</a>
License	CC BY 4.0 ign.es
Author(s)	National Geographic Institute of Spain / Instituto Geográfico Nacional España (IGN)
Published by	National Centre for Geographic Information of Spain / Centro Nacional de Información Geográfica España (CNIG)
Date of publication or most recent update	07/06/2021 and 1st of October
Scale	1:25,000 – 1:50,000 – 1:200,000 – 1:500,000 – 1:1, 250,000 - 1:2,000,000
Language(s) of the presentation	Spanish



**Abstract/Description**  
(in English or  
French; 100 words  
max)

Raster maps from IGN at different scales. The maps are, 1:2,000,000 scale, served up to a resolution of 420 m/pixel; 1:1 250,000 scale, served up to a resolution of 104.44 m/pixel; 1:500,000 scale, served up to a resolution of 40.04 m pixel; the Provincial Map at 1:200,000 scale, served up to a resolution of 20.16 m/pixel; the National Topographic Map at 1:50,000 scale, served up to a resolution of 7 m/pixel and the National Topographic Map 1: 25,000 scale, served up to a resolution of 7 m/pixel. A standard pixel size of 0.28mm is considered. The tiles are pre-generated in JPEG format in the WGS84 Web Mercator Coordinate Reference Systems (EPSG: 3857), ETRS89 Geographic Coordinates (EPSG: 4258) and UTM ETRS89 Zone 30 N Projection (EPSG: 25830).



## EDUCATIONAL PRODUCTS

### ESI\_EP1

#### Discovering the territory

Author(s)	National Centre for Geographic Information of Spain / Centro Nacional de Informaci��n Geogr��fica Espa��a (CNIG)
Type	Digital teaching and learning material
Dimensions (mm)	
Published by	National Centre for Geographic Information of Spain / Centro Nacional de Informaci��n Geogr��fica Espa��a (CNIG)
Date of publication	(2020 English version)
Language(s) of the product	Spanish/English

**Abstract/Description (in English or French; 100 words max)**

Application composed of nine educational materials intended to make the learning of geography and cartography fun. The explanations for each topic are provided in different settings and are accompanied by exercises in the form of games in which children can put their newly acquired knowledge into practice. A system of points motivates the students to attain the challenges.



**ESI\_EP2**

**GeoSapiens**

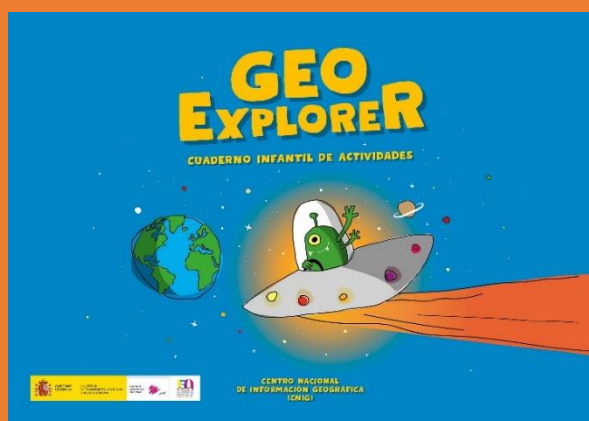
Author(s)	National Centre for Geographic Information of Spain / Centro Nacional de Información Geográfica España (CNIG)
Type	Digital teaching and learning material
Dimensions (mm)	
Published by	National Centre for Geographic Information of Spain / Centro Nacional de Información Geográfica España (CNIG)
Date of publication	2020
Language(s) of the product	Spanish/English
Abstract/Description (in English or French; 100 words max)	GeoSapiens is a game of physical, political and landscape geography. Its objective is to help children learn the names and location of the main features of land and coastal relief, countries, capitals, regions, flags and much more. It contains games of Spain, each autonomous region, the world, and every continent. It is possible for teachers to create a customized game and share it with their class. It is available as web and as app version.



### ESI\_EP3

### GeoExplorer

Author(s)	National Centre for Geographic Information of Spain / Centro Nacional de Información Geográfica España (CNIG)
Type	Children's activity notebook
Dimensions (mm)	210 x 297 mm
Published by	National Centre for Geographic Information of Spain / Centro Nacional de Información Geográfica España (CNIG)
Date of publication	2020
Language(s) of the product	Spanish/English
Abstract/Description (in English or French; 100 words max)	GeoExplorer accompanies children from 6 to discover the Earth through games to learn astronomy, the interior of the Earth, geography, and maps. The book contains activities for drawing, coloring, cutting, and learning more with links to other resources.



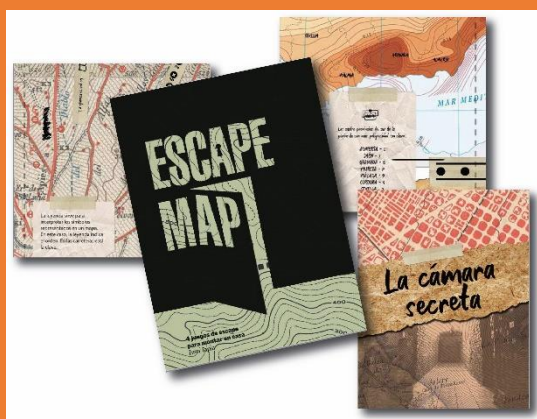


## OTHER CARTOGRAPHIC PRODUCTS

### ESI\_OC1

#### *Escape Map*

Author(s)	Iván Tapia
Type	Book
Dimensions (mm)	165 x 235 mm
Published by	National Centre for Geographic Information of Spain / Centro Nacional de Información Geográfica España (CNIG)
Date of publication	2020
Language(s) of the product	Spanish
Abstract/Description (in English or French; 100 words max)	Four portable escape games created from official maps from the National Geographic Institute of Spain: <ul style="list-style-type: none"> <li>• The secret chamber</li> <li>• The unusual race</li> <li>• The hidden earthquake</li> <li>• The great robbery.</li> </ul>



### ESI\_OC2

#### *The legend of the lost jewels*

Author(s)	National Centre for Geographic Information of Spain / Centro Nacional de Información Geográfica España (CNIG)
Type	Virtual Escape room
Dimensions (mm)	
Published by	National Centre for Geographic Information of Spain / Centro Nacional de Información Geográfica España (CNIG)
Date of publication	2020
Language(s) of the product	Spanish
Abstract/Description (in English or French; 100 words max)	The game consists of finding the jewels by solving riddles where the cartographic and geographical knowledge necessary to succeed in this adventure will be put to the test. The adventure includes 6 challenges and is aimed at young people from 12 years old and geography and cartography lovers.

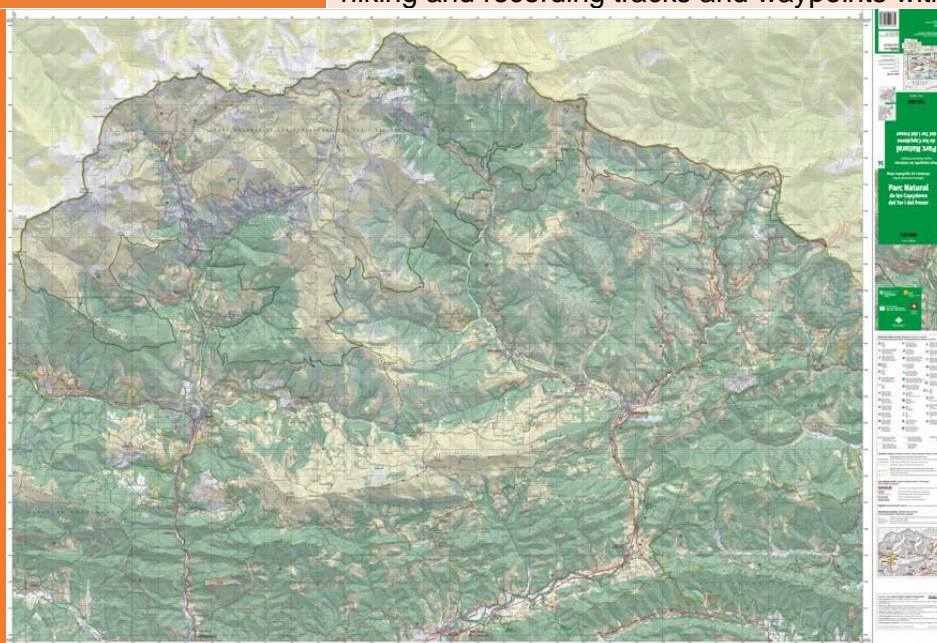


# SPAIN\_ICGC

## MAPS ON PANELS

### ESC\_MP1 *Topographic Map of Catalonia. Ter & Freser rivers headwaters Natural Park*

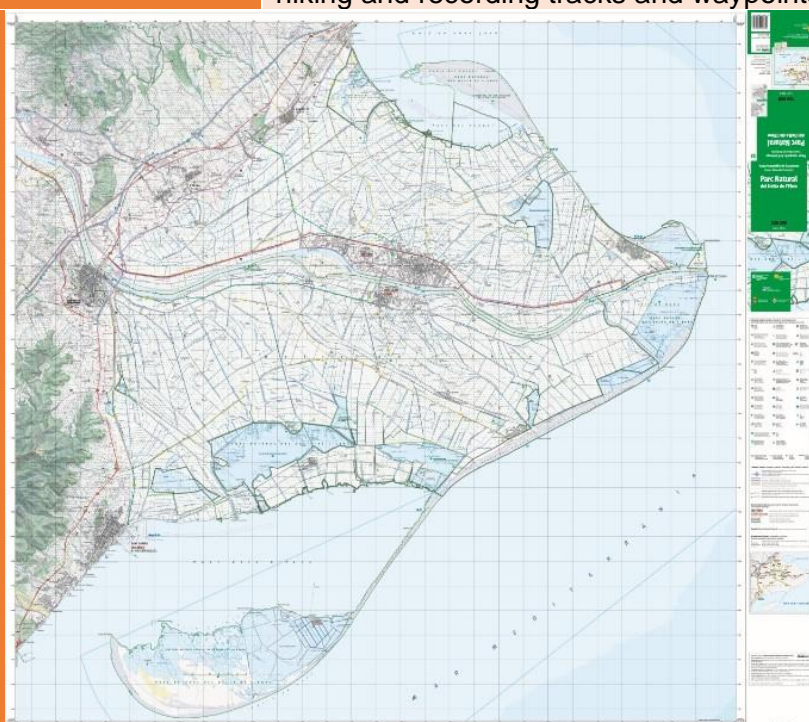
Type of material	Paper
Scale (if relevant)	1:25,000
Dimensions (mm)	143.1 x 98
Author(s)	Institut Cartogràfic i Geològic de Catalunya
Published by	Institut Cartogràfic i Geològic de Catalunya
Date of publication	2021-09
Language(s) of the legend	Catalan, Spanish, English, French
Abstract/Description (in English or French; 100 words max)	Topographic map enhanced with thematic information: footpaths and trails, tourist spots, services and accommodation (pictograms). Thematic information and country roads and paths classification (width and surface) have been prepared in collaboration with county councils and national and natural parks. The original TM 1:25,000 can also be downloaded (tiff files) with the application Catalunya Offline, a mobile App developed by ICGC for hiking and recording tracks and waypoints with GPS.





## ESC\_MP2 Topographic Map of Catalonia. Ebro River Delta Natural Park

Type of material	Paper
Scale (if relevant)	1:25,000
Dimensions (mm)	115.9 x 148.4
Author(s)	Institut Cartogràfic i Geològic de Catalunya
Published by	Institut Cartogràfic i Geològic de Catalunya
Date of publication	2021-09
Language(s) of the legend	Catalan, Spanish, English, French
Abstract/Description (in English or French; 100 words max)	Topographic map enhanced with thematic information: footpaths and trails, tourist spots, services and accommodation (pictograms). Thematic information and country roads and paths classification (width and surface) have been prepared in collaboration with county councils and national and natural parks. The original TM 1:25,000 can also be downloaded (tiff files) with the application Catalunya Offline, a mobile App developed by ICGC for hiking and recording tracks and waypoints with GPS.

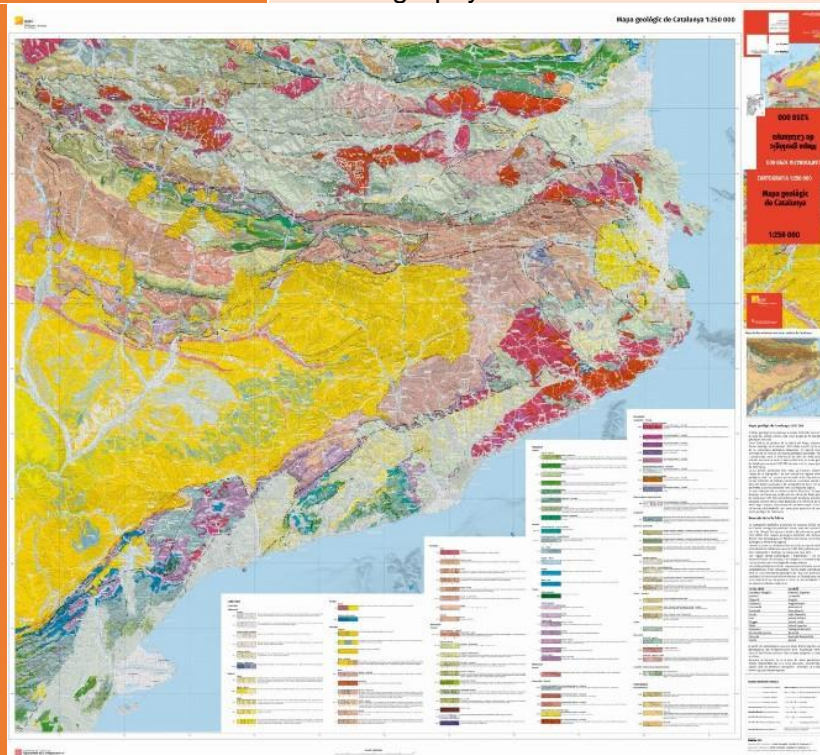


## ESC\_MP3 Geological Map of Catalonia

Type of material	Paper
Scale (if relevant)	1:250,000
Dimensions (mm)	128.2 x 115
Author(s)	Institut Cartogràfic i Geològic de Catalunya
Published by	Institut Cartogràfic i Geològic de Catalunya
Date of publication	2021-11
Language(s) of the legend	Catalan

**Abstract/Description (in English or French; 100 words max)**

3<sup>rd</sup> edition of the map. Legend composed of 263 geological map units. Updating of tectonic structures from the Structural Map of Catalonia 1: 250 000. Igneous and metamorphic rocks are integrated into the chronostratigraphic legend. Geological units ages are updated and harmonized with the International Chronostratigraphic Chart by the International Commission on Stratigraphy.

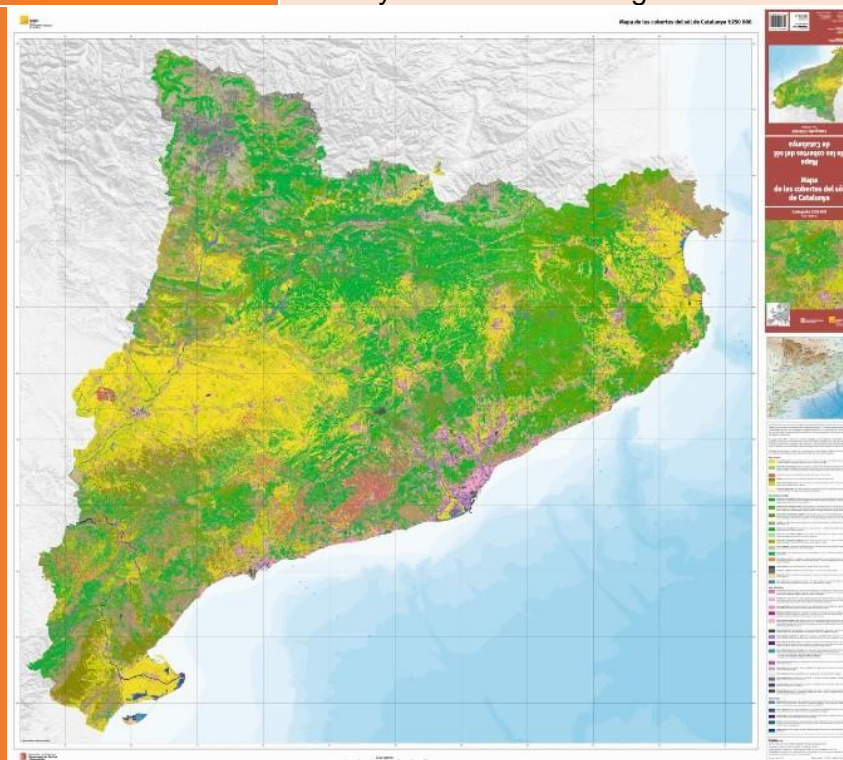


## ESC\_MP4

### Landcover Map of Catalonia

Type of material	Paper
Scale (if relevant)	1:250,000
Dimensions (mm)	128.2 x 115
Author(s)	Institut Cartogràfic i Geològic de Catalunya
Published by	Institut Cartogràfic i Geològic de Catalunya
Date of publication	2021-01
Language(s) of the legend	Catalan
Abstract/Description (in English or French; 100 words max)	The map distinguishes 40 categories of land cover of different types: agricultural areas (6), forest and natural areas (14), urbanized areas (15) and water bodies (5). The criteria set for categorization are the result of joint work between different institutions. Updating made by photointerpretation (2018 flight), and in the detection of changes, using semiautomatic identification and labeling techniques, radiometric indices, deep learning processes and also use of other bases such as the Geographic

Information System of Agricultural Plots of Catalonia (SIGPAC). Two levels of resolution: 2 hectares for the whole territory and 5 ha for the agricultural areas.



## DIGITAL PRODUCTS

ESC_DP1	ContextMaps
Type	Web map application
File format (10 words)	Html Vector tiles
Operating system	Web development
License	Attribution OpenMapTiles, OpenStreetMap, ICGC
Author(s)	Institut Cartogràfic i Geològic de Catalunya
Published by	Institut Cartogràfic i Geològic de Catalunya
Date of publication or most recent update	2021-09
Scale	
Language(s) of the presentation	English
Abstract/Description (in English or French; 100 words max)	Transverse mapping platform by the ICGC that includes continuous cartography in vector tiles format, image services and a set of services and functionalities that makes easier and speeds up its use and consumption. Reference cartography by the ICGC (for Catalonia) and OSM (World) can be stylized in different ways so that



users choose the most suitable one for their purpose. Users can also upload and share their information and view it in 3D (e.g. routes). It allows the retrieval of web links in order to use the map with the customized style either in a viewer, or as a geoservice.

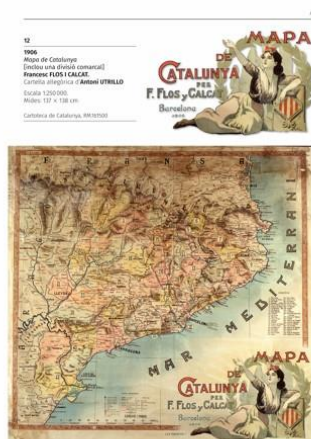


## OTHER CARTOGRAPHIC PRODUCTS

### ESC\_OC1 Maps, country, future: Centenary of the Catalan map exhibition (1919)

Author(s)	-
Type	Paper
Dimensions (mm)	201 x 290
Published by	Institut Cartogràfic i Geològic de Catalunya
Date of publication	2020-01
Language(s) of the product	Catalan
Abstract/Description (in English or French; 100 words max)	Catalog of the exhibition of more than sixty maps of Catalonia, from the 17th century to 1919, organized by the ICGC in collaboration with the Centre Excursionista de Catalunya (CEC, hiking entity) and the History Museum of Catalonia (MHC). Made in commemoration of the centenary of the exhibition organized by the CEC in 1919; many of the maps on display are the same ones that were exhibited on that occasion.

**Mapes, país, futur:**  
Centenari de l'exposició  
cartogràfica catalana  
(1919)



# SWEDEN

## MAPS ON PANELS

### SWE\_MP1

#### *Huddingekartan*

Type of material	Paper
Scale (if relevant)	1:15 000 and 1:30 000
Dimensions (mm)	900 x 600 mm (two sides)
Author(s)	The municipality of Huddinge and Infab Kommunikation
Published by	The municipality of Huddinge
Date of publication	January 2020
Language(s) of the legend	Swedish
Abstract/Description (in English or French; 100 words max)	A map for inhabitants and visitors to discover what to see and do in Huddinge. The map shows bicycle routes and contains information about places of interest.



## DIGITAL SERVICES

### SWE\_DS1

#### *Nature reserves of the municipality of Jönköping*

Type of service	Map and information
Format (10 words)	ESRI story map
Software platform	ArcGIS
URL web link	<a href="https://experience.arcgis.com/experience/d26838d970954128aa02362041a71b83/">https://experience.arcgis.com/experience/d26838d970954128aa02362041a71b83/</a>

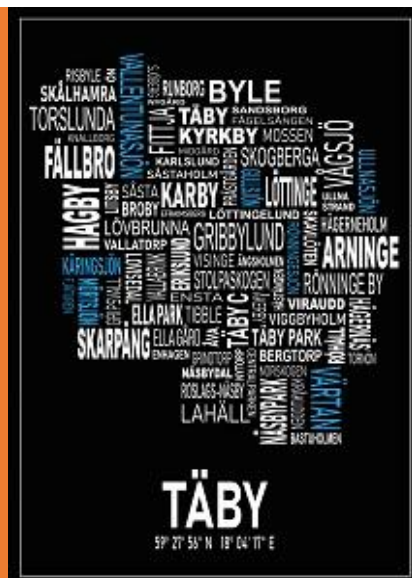


<b>License</b>	
<b>Author(s)</b>	Ingvar Rödger and Jonas Persson
<b>Published by</b>	The municipality of Jönköping
<b>Date of publication or most recent update</b>	September 2020
<b>Scale</b>	-
<b>Language(s) of the presentation</b>	Swedish
<b>Abstract/Description (in English or French; 100 words max)</b>	Welcome to visit our nature reserves on this interactive story map. You can learn more about interesting places, trails and see pictures of the beautiful areas. A number of places are marked on the map. Information about the marked spots can be seen beside the map. Which places you can read about depends on what you see on the map, zoom and pan to find all the information.



## OTHER CARTOGRAPHIC PRODUCTS

<b>SWE_OC1</b>	<b>Word map over the municipality of Taby</b>
<b>Author(s)</b>	The municipality of Taby
<b>Type</b>	Word cloud map
<b>Dimensions (mm)</b>	300 x 400 mm
<b>Published by</b>	The municipality of Taby
<b>Date of publication</b>	January 2020
<b>Language(s) of the product</b>	-
<b>Abstract/Description (in English or French; 100 words max)</b>	This is a "word map" of the municipality of Taby. The map has the shape of the municipality and is built of names of places there. Every name is placed on the right geographic place and twisted and stretched to mark the correct area. Water is blue.



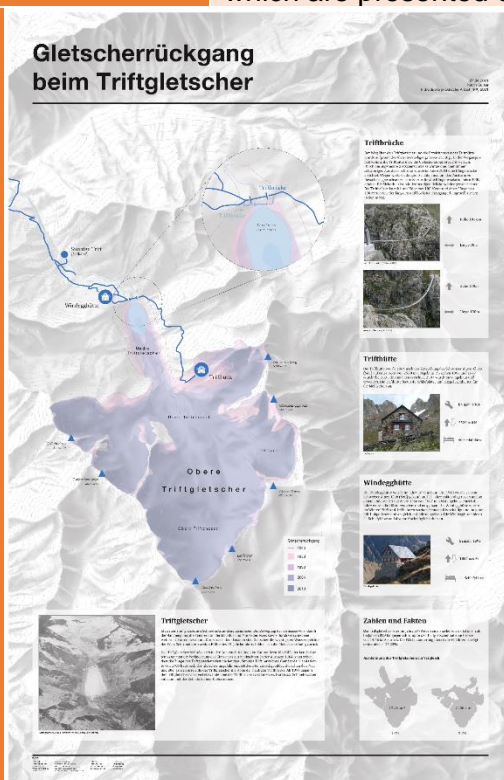
# SWITZERLAND

## MAPS ON PANELS

### CHE\_MP1

### Glacier retreat on the Trift Glacier

Type of material	Enduro Paper
Scale (if relevant)	1:20 000
Dimensions (mm)	570mm x 880mm
Author(s)	Kevin Sulser
Published by	Swiss federal office of topography swisstopo
Date of publication	27 April 2021
Language(s) of the legend	German
Abstract/Description (in English or French; 100 words max)	The product primarily shows the retreat of the Trift Glacier in the Bernese Alps, which were digitally recorded using aerial photos from swisstopo. In addition, the product is decorated with several information about the Trift Glacier, the current and former Trift Bridge and the SAC huts in the area which are presented on a scientific poster.





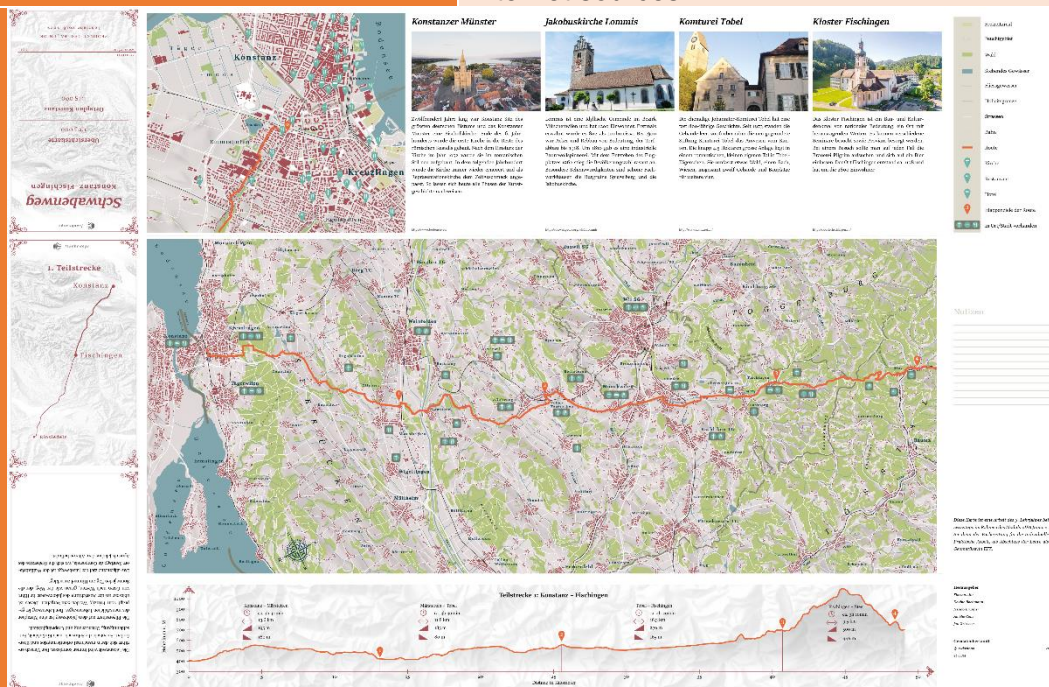
## CHE\_MP2

## Swabian Route, Via Jacobi (Schwabenweg)

Type of material	Paper
Scale (if relevant)	1.65 000 (Side maps 1:15 000)
Dimensions (mm)	570mm x 880mm (110mm x 190mm when folded)
Author(s)	Florian Aliu, Davine Bachmann, Nando Brunner, Amélie Conz, Jan Griessen (4th Year apprentices of the Swiss federal office of topography swisstopo)
Published by	Swiss federal office of topography swisstopo
Date of publication	24 June 2021
Language(s) of the legend	German

### Abstract/Description (in English or French; 100 words max)

This map focuses on the popular swiss part of the pilgrim's way of St. James, guiding Pilgrims and hikers down the path from the lake of Constance, passing by historic Villages to the famous Einsiedeln abbey. The map features a slightly nostalgic look while remaining a modern day product. It was created using Adobe Illustrator and its add-in MAPublisher, as well as Adobe InDesign. The geodata used in the map originates from swisstopo and the information about sights along the way has been collected from diverse internet sources.



## DIGITAL PRODUCTS

### CHE\_DP1

### Don't trust choropleth maps. Evidence from Switzerland!

Type	Animated non-interactive web map
File format (10 words)	Animated gif
Operating system	Any
License	MIT
Author(s)	David Zumbach
Published by	David Zumbach
Date of publication or most recent update	31 December 2020
Scale	-
Language(s) of the presentation	English
Abstract/Description (in English or French; 100 words max)	Using the example of a referendum in Switzerland, the map shows how easily choropleth maps can create a distorted picture of the actual balance of power in a political context and how quickly they can be misunderstood by the audience. The animation compares the spatial extent of a municipality with its population size, resolves the colour gradation of the map and finally leads to a bubble chart that accurately reflects the true proportions of the vote.

### Don't trust choropleth maps. Evidence from Switzerland!



Animated version

David Zumbach

[david.zumbach@gefra.ch](mailto:david.zumbach@gefra.ch)

[@DavidZumbach](https://twitter.com/DavidZumbach)

1

What looks like a clear victory in the choropleth map...



Percentage of yes votes

Proposal: Amendment of the Hunting Act, 2020-09-27 (Data: opendata.swiss)  
What it shows: Voting results at the municipal level.

2

What looks like a clear victory in the choropleth map...

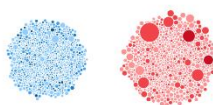


Percentage of yes votes

Proposal: Amendment of the Hunting Act, 2020-09-27 (Data: opendata.swiss)  
What it shows: Municipalities sorted by voting majority and area size.

3

...turns out to be a defeat in the end.



Percentage of yes votes

Proposal: Amendment of the Hunting Act, 2020-09-27 (Data: opendata.swiss)  
What it shows: Municipalities sorted by voting majority and weighted according to number of votes cast.

4

...at least a narrow one.



Yes share: 48.1 %

No share: 51.9 %

Proposal: Amendment of the Hunting Act, 2020-09-27 (Data: opendata.swiss)  
What it shows: Yes and No share of all 2102 Swiss municipalities.



Code:  
Written entirely in R.

## CHE\_DP2

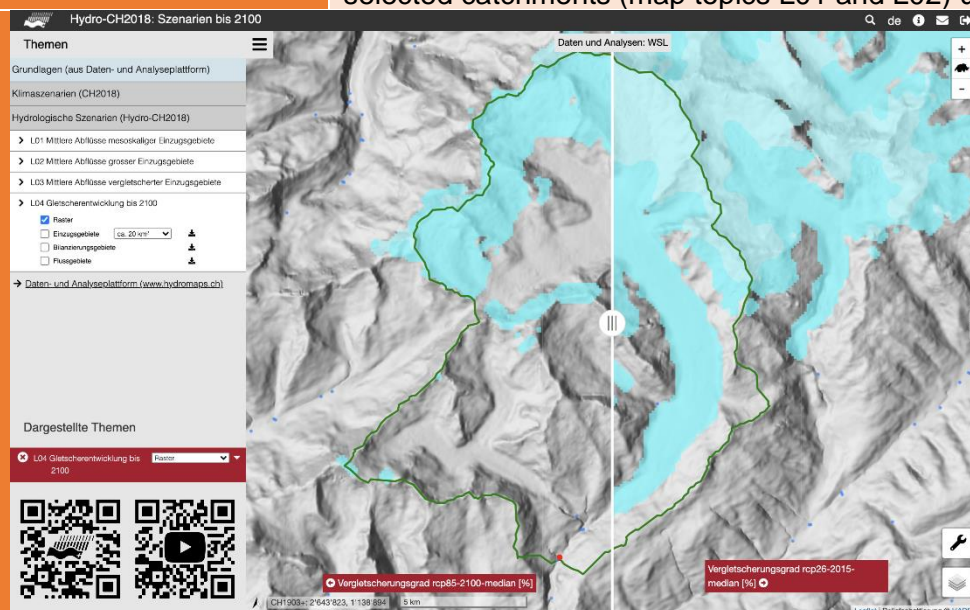
## swisstopo-App

Type	Mobile Application
File format (10 words)	gpx, kml for export and import of tracks
Operating system	Android and iOS
License	Copyright: swisstopo
Author(s)	Concept, design & development: Ubique Innovation AG, swisstopo
Published by	Swiss federal office of topography swisstopo
Date of publication or most recent update	23 July 2020
Scale	All national maps from 1:10,000 to 1:1 million scale
Language(s) of the presentation	English
Abstract/Description (in English or French; 100 words max)	The free map app from swisstopo brings the National Maps of Switzerland, together with many other topics such as public transport, hiking, cycling, snow sports and aviation, to your smartphone and tablet. Depending on your interests, themes and content can be added to the background map. Simple operation, the ability to plan and record tours and experiencing the landscape in panorama mode (AR and VR) are the hallmarks of the app. All functions of the app and the storage of maps and data for the offline use are free of charge. Available for iOS and Android. More information at <a href="http://www.swisstopo.ch/app">www.swisstopo.ch/app</a>

The poster for the swisstopo app features a scenic mountain landscape with a hiker on a ridge. It includes several QR codes for more information and app downloads. Text on the poster includes: 'swisstopo app', 'Precise maps for Switzerland', 'More information at www.swisstopo.ch/app', 'Watch video', 'where', 'knowing', 'swisstopo', 'Made by ubique', 'Schweizerische Eidgenossenschaft / Confédération suisse / Confederazione Svizzera / Confederaziun svizra / Swiss Confederation', 'Federal Office of Topography swisstopo', 'www.swisstopo.ch', 'Download now for free', and 'www.swisstopo.ch/app'. It also shows icons for hiking, cycling, and public transport, and logos for Google Play and the App Store.



CHE_DP3 <i>Scenarios in the Hydrological Atlas of Switzerland</i>	
Type	Web Map
File format (10 words)	Web Page
Operating system	Windows, Mac OS X, UNIX, Linux: best in Chrome browser
License	ISC License ( <a href="https://choosealicense.com/licenses/isc/">https://choosealicense.com/licenses/isc/</a> ) - This license is addressing the web page and not the map contents. These have not yet been licensed.
Author(s)	Alain Bühlmann, Jan Schwanbeck, Felix Hauser, Rolf Weingartner
Published by	Hydrological Atlas of Switzerland
Date of publication or most recent update	16 March 2021
Scale	No fixed scale
Language(s) of the presentation	English
Abstract/Description (in English or French; 100 words max)	The web platform <a href="http://www.hydromapsCC.ch">www.hydromapsCC.ch</a> presents research results of the Hydro-CH2018 and CH2018 projects in a form that is suitable for dealing with applied hydrological questions. The platform was developed by the producers of the Hydrological Atlas of Switzerland (HADES) and is structured analogously to the atlas's "Data and Analysis Platform". It presents hydro-climatic and hydrological scenarios for the 21st century. The platform currently includes precipitation and temperature scenarios, estimates of glacier development, and the resulting runoff scenarios for selected catchments (map topics L01 and L02) up to 2100.



## CHE\_DP4

## swisstopo Vector Tiles

Type	Hosted and customizable web map
File format (10 words)	MBTiles (WebP, JPG, PNG, PBF)
Operating system	any
License	©MapTiler ©swisstopo ©OpenStreetMap contributors
Author(s)	Dominik Käuferle, Sebastian Denier, Petr Pridal, Nicolas Bozon
Published by	Swiss federal office of topography swisstopo
Date of publication or most recent update	25 February 2021
Scale	Switzerland and the rest of the world (across all zoom levels)
Language(s) of the presentation	German, French, Italian, Romansh
Abstract/Description (in English or French; 100 words max)	Vector maps of Switzerland crafted in partnership between swisstopo and MapTiler upgrades the traditional high-quality Swiss cartography to a new technology. Vector tiles bring sharpness on mobile devices, smooth interaction, rotated labels, personalization in content, language or colors. Powered by the official government data and high-quality open-data outside of the country, the maps can be easily integrated with web, mobile, and desktop applications. Maps are available from MapTiler.com reliable global infrastructure. Publicly available at <a href="https://swisstopo.ch">swisstopo</a> and on <a href="https://www.maptiler.com">MapTiler Cloud</a> Read the related <a href="#">blog post</a>

## swisstopo Vector Tiles

New technology for traditional Swiss cartography

### Ready-to-use styles



Rich content at every scale, global coverage



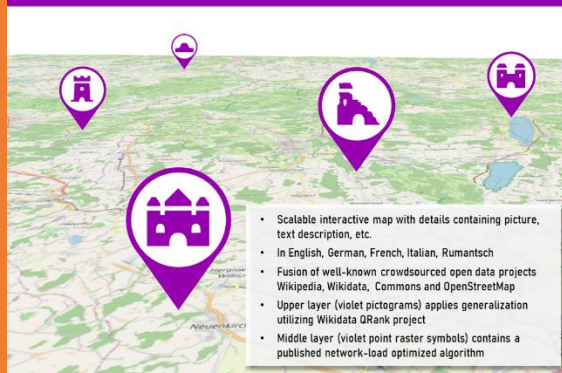
### Modify and use in your project



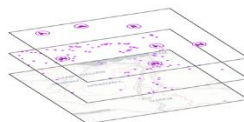
## CHE\_DP5 Castle Dossier Map - Switzerland and neighbouring countries.

Type	Web Map
File format (10 words)	
Operating system	Any Operating system, tested on main browsers.
License	Poster and Video CC BY 3.0
Author(s)	Stefan Keller
Published by	Geometa Lab at Institute for Software, Eastern Switzerland University of Applied Sciences
Date of publication or most recent update	28 November 2020
Scale	N/A
Language(s) of the presentation	English
Abstract/Description (in English or French; 100 words max)	Scalable web map castles and palaces Switzerland and neighboring countries Liechtenstein, Germany (Baden-Württemberg, Bavaria), Austria, Italy with details containing picture, text description, etc. One of the most complete works including about 2200 objects thanks to a fusion of well-known crowdsourced open data projects Wikipedia, Wikidata, Commons (images) and OpenStreetMap. User interface and the content are in five languages: DE, FR, IT, RM, EN. The application shows innovative approaches to overcome network communication and generalization issues, by 1. splitting objects to pictograms and point raster symbols, 2. by encoding data into images (network-load optimized algorithm) and by automated ranking (Wikidata QRank). Link: <a href="https://castle-map.infs.ch">https://castle-map.infs.ch</a> .

### Castle Dossier Map Switzerland and neighboring countries



Try out the web app:  
[www.castle-map.infs.ch](http://www.castle-map.infs.ch)



Base map, middle layer and upper layer



Video about the web app:  
[youtu.be/mg\\_TcQLAmx8](https://youtu.be/mg_TcQLAmx8)

Contact:  
Prof. Stefan Keller, Geometa Lab at Institute for Software,  
Eastern Switzerland University of Applied Sciences, Obereisestrasse 10, CH-  
8840 Rapperswil (Switzerland), [stefan.keller@ost.ch](mailto:stefan.keller@ost.ch)

IFS INSTITUTE FOR  
SOFTWARE

OST  
Ostschweizerische  
Hochschule

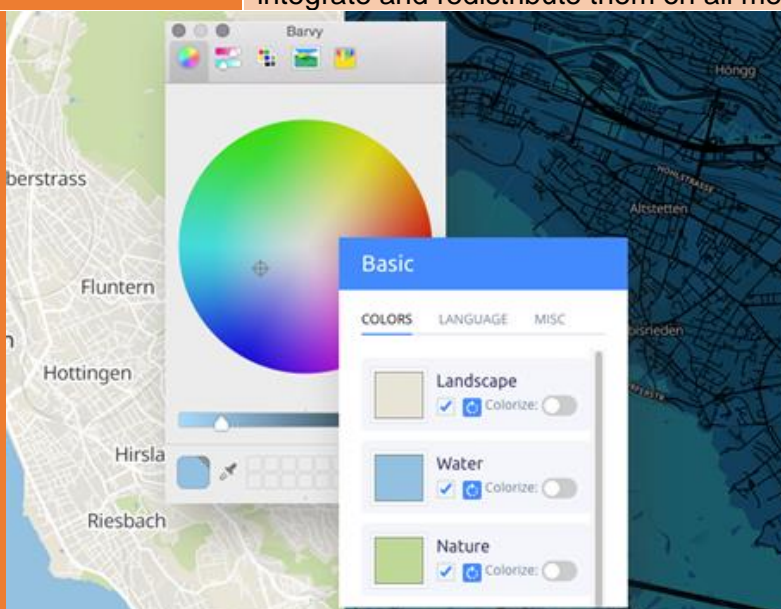


## DIGITAL SERVICES

### CHE\_DS1

### MapTiler Cloud

Type of service	Vector Tiles/XYZ tiles/OGC WMTS
Format (10 words)	MBTiles (WebP, JPG, PNG, PBF)
Software platform	MapTiler Cloud
URL web link	<a href="https://maptiler.com/cloud">https://maptiler.com/cloud</a>
License	copyright ©MapTiler
Author(s)	Nicolas Bozon, Petr Pridal, Petr Sloup, Dalibor Janak
Published by	MapTiler AG
Date of publication or most recent update	September 2021
Scale	The whole world down to the street level
Language(s) of the presentation	English
Abstract/Description (in English or French; 100 words max)	Over 300 million people are viewing the MapTiler maps every day. The MapTiler Cloud platform is serving beautiful maps of the world from a fast cloud infrastructure and offers ready-to-use map tiles and styles. Users are connecting the maps to their websites, mobile applications or GIS and sharing them with their audience. They can adapt them to their needs using intuitive map publishing tools, change colors, fonts or symbols, but also use their own geospatial data hosted on the platform. MapTiler Cloud provides high quality up-to-date basemaps and allows its users to modify, integrate and redistribute them on all media.



## OTHER CARTOGRAPHIC PRODUCTS

### CHE\_OC1

### *The vividness of cartography – Andermatt and Matterhorn*

Author(s)	Tim Boin
Type	Wooden Relief
Dimensions (mm)	600 x 300 x 100 / 100 x 100 x 100
Published by	Tim Boin, <a href="http://www.modulegno.ch">www.modulegno.ch</a>
Date of publication	September 2019
Language(s) of the product	-
Abstract/Description (in English or French; 100 words max)	Modulegno combines cartography and wood to create distinctive interior design objects. In order to do this Swisstopo's digital elevation model data is processed and fed to a 5-axis milling machine that cuts the relief into hardwood boards. In case of a table the resulting wooden relief is usually complemented with glass and steel and even LED lighting.



# UNITED KINGDOM

## MAPS ON PANELS

GBR_MP1	<i>York City Wayshowing: Pedestrian Wayfinding Map</i>
Type of material	vinyl
Scale (if relevant)	1:1700
Dimensions (mm)	1100 * 1215
Author(s)	Momentum Wayshowing
Published by	York BID & York City Council
Date of publication	October 2020
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	York City Wayshowing Scheme comprises a bespoke family of signs designed for the beautiful heritage city of York. Our pedestrian wayfinding map, with a colour palette based on local colours and finishes, is the core component of the scheme. The heads-up map and legend help engage, welcome, locate, orientate, and inform visitors so that destinations, attractions, and amenities can be found and routes to them planned. It enables a rich, complex, historic city to become more legible, accessible, and enjoyable. The map helps build understanding, encourages explorations and movement, and improves the experience for visitors to York.

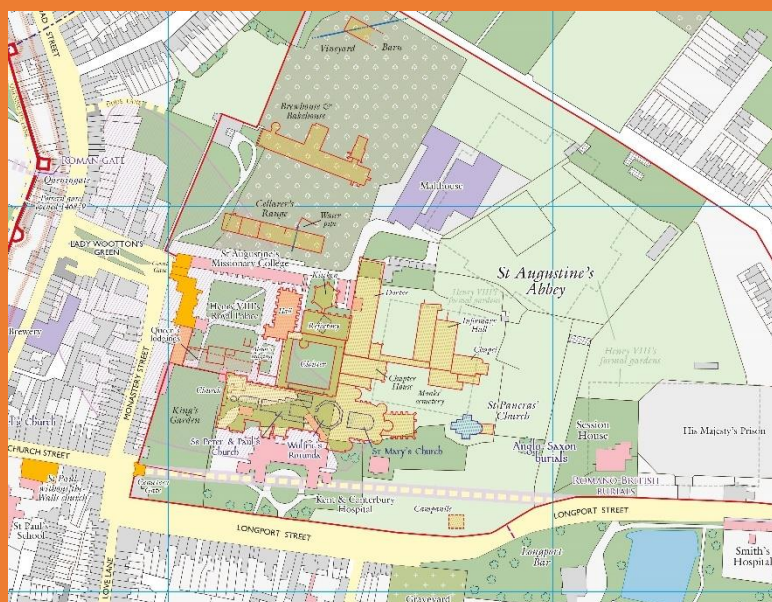




## GBR\_MP2

## An Historical Map of Canterbury

Type of material	paper
Scale (if relevant)	1:2500
Dimensions (mm)	1000 * 890
Author(s)	Jake Weekes (historical information), Giles Darkes (cartography and project management). Original base-map digitising by Alfie Day.
Published by	The Historic Towns Trust, Oxford UK (project run in association with Canterbury Archaeological Trust and Canterbury Christ Church University)
Date of publication	March 2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	A full-colour map summarising the history of Canterbury from prehistoric times to the early 20th century. Against a background of a digitised OS plan of 1907, the map shows the main sites of historical interest, both extant and lost. The sheet reverse includes three phase-maps of Roman Canterbury with a short essay, and a comprehensive gazetteer of the city's historical buildings. The cartographic challenge was to show historically complex information — many sites remained of interest across the centuries — in a clear and accessible way. The map is aimed at a wide general audience.

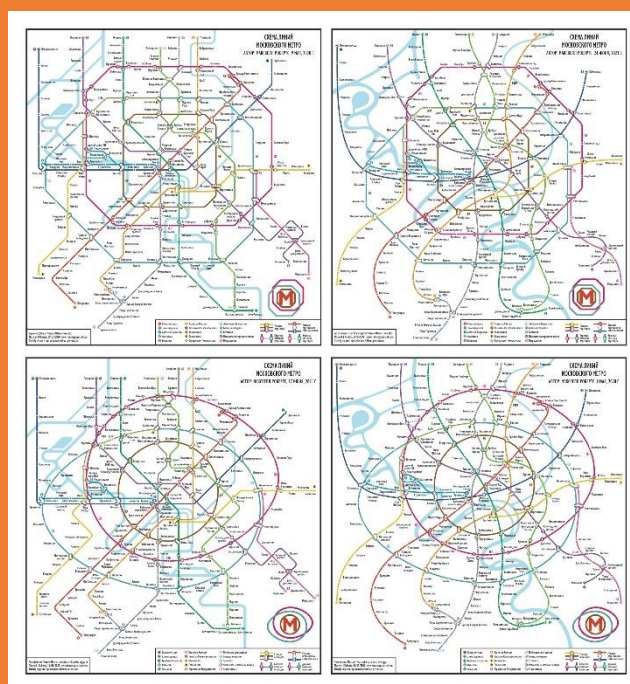


## GBR\_MP3

## Exploring octolinear, curvilinear and hybrid schematics for depicting the new orbital lines of the Moscow Metro network.

Type of material	paper
Scale (if relevant)	Variable
Dimensions (mm)	610 * 654

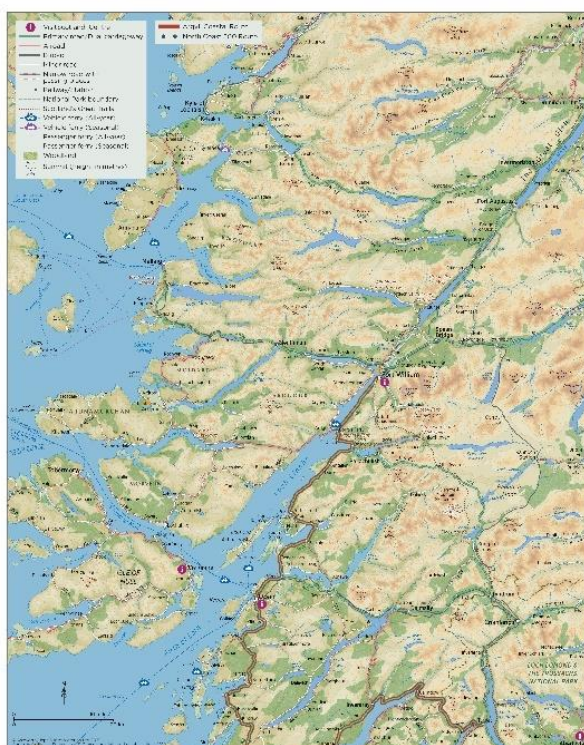
<b>Author(s)</b>	Maxwell J. Roberts
<b>Published by</b>	Maxwell J. Roberts
<b>Date of publication</b>	June 2021
<b>Language(s) of the legend</b>	Russian
<b>Abstract/Description (in English or French; 100 words max)</b>	For two decades, official Moscow Metro diagrams have comprised octolinear lines (horizontal, vertical, and 45° diagonals) except for the orbital Line 5, depicted as a circle. With the construction of two further orbital lines (11 and 14) the challenge is to harmonise these with Line 5, especially as avoidance of excessive topographical distortion prevents their depiction as perfect circles. These schematics comprise an exploration of octolinear/curvilinear construction applied to orbital versus radial lines. Design priorities were to simplify line trajectories and preserve relative spatial locations of stations. The results suggest continuing utility in curvilinear depictions of the orbital lines.



<b>GBR_MP4</b>	<i>Fort William region, Scotland</i>
<b>Type of material</b>	Original printed on acrylic panel – sample on paper
<b>Scale (if relevant)</b>	1:170,000
<b>Dimensions (mm)</b>	375 * 475
<b>Author(s)</b>	Ashworth Maps & Interpretation
<b>Published by</b>	Visit Scotland
<b>Date of publication</b>	November 2019
<b>Language(s) of the legend</b>	English

**Abstract/Description  
(in English or French;  
100 words max)**

Used alongside an Ashworth Maps map of Scotland in a large format wall display in the VisitScotland visitor information centre (incentre) in Fort William on the West coast of Scotland. One of a series of regional maps used in VisitScotland iCentres across the country. Map based on Ordnance Survey OpenData, with additional information provided by VisitScotland. Relief shown by layer colours based on Ordnance Survey OpenData Terrain50 data.

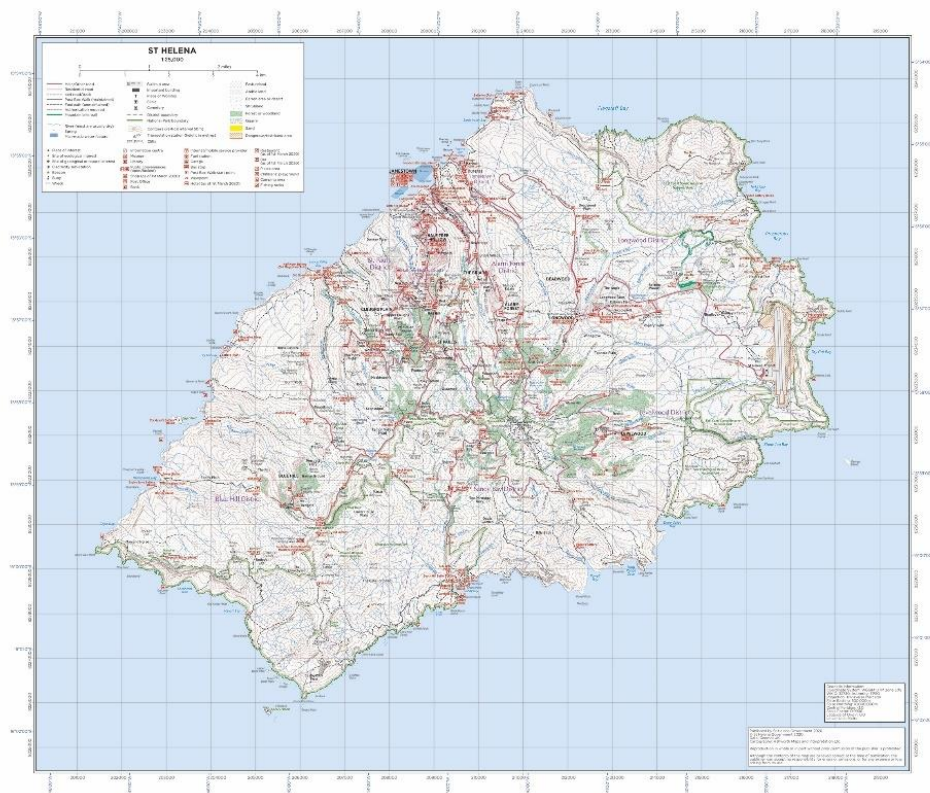


**GBR\_MP5**

**1:25,000 Topographic map of St Helena**

Type of material	paper
Scale (if relevant)	1:25,000
Dimensions (mm)	870 * 720
Author(s)	Ashworth Maps and Interpretation Ltd, Glasgow, UK ,in association with Verisk/Geoinformation Group, Cambridge, UK.
Published by	St Helena Government
Date of publication	May 2020
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	Detailed topographic mapping based on new survey/data from Verisk and SHG. The map replaces the previous topographic map of the island produced by the Ordnance Survey.





## GBR\_MP6

## 1:10,000 Topographic map of St Helena, Sheet 4

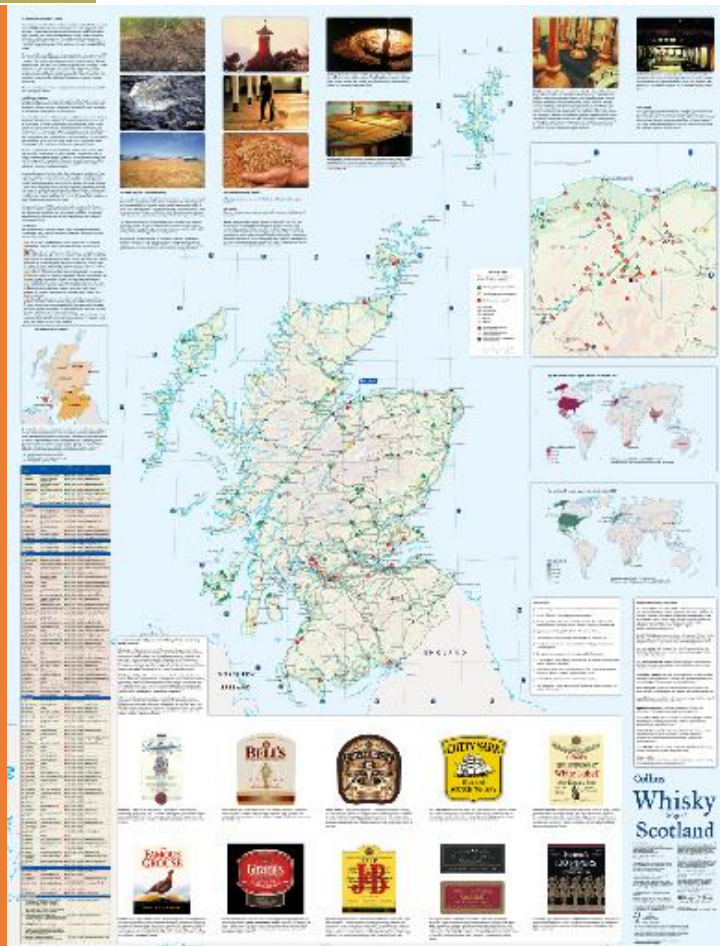
Type of material	paper
Scale (if relevant)	1:10,000
Dimensions (mm)	1200 * 860
Author(s)	Ashworth Maps and Interpretation Ltd, Glasgow, UK ,in association with Verisk/Geoinformation Group, Cambridge, UK.
Published by	St Helena Government
Date of publication	May 2020
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	One of 4 detailed topographic map sheets based on new survey/data from Verisk and SHG. The map replaces the previous topographic mapping of the island produced by the Ordnance Survey.



## GBR\_MP7

## Whisky Map of Scotland

Type of material	paper
Scale (if relevant)	1:810,000
Dimensions (mm)	775 * 1015
Author(s)	Collins Maps
Published by	Collins (Harper Collins UK)
Date of publication	April 2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	Discover where Scotland's national drink is produced. All of Scotland's operational whisky distilleries and whisky-related places of interest located on one map. Includes new distilleries including Clydeside, Holyrood, Dornoch and Torbhaig. The folded map includes: • Over 100 distilleries and whisky-related places of interest • Insert map of malt whisky areas • A guide to how whisky is made • Did you know? Section with interesting facts



## GBR\_MP8

## Urban Nature Edinburgh

Type of material	paper
Scale (if relevant)	1:20,000
Dimensions (mm)	1270 * 950
Author(s)	Charlie Peel
Published by	Urban Good CIC
Date of publication	January 2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	This map shows Edinburgh as a city of nature, bringing its green and blue spaces to the fore – its parks, woodlands, playing fields, nature reserves, rivers, and coastline. It incorporates symbols marking places to walk and cycle, take in views, and geodiversity sites. It shows open space rather than roads and buildings.





## GBR\_MP9

## Footways: Central London

Type of material	paper
Scale (if relevant)	1:10,000
Dimensions (mm)	841 * 594
Author(s)	Charlie Peel, London Living Streets
Published by	Urban Good CIC
Date of publication	September 2020
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	The Footways network has been curated to connect major places with appealing and accessible streets. The places include mainline train stations, popular destinations and green spaces. It prompts Londoners and visitors to choose walking as the most enjoyable, efficient and healthy option.



## GBR\_MP10

## Slow Ways: Scotland Route Planner

Type of material	Paper
Scale (if relevant)	1:1,250,000
Dimensions (mm)	420 * 594
Author(s)	Charlie Peel
Published by	Urban Good CIC
Date of publication	September 2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	Slow Ways is an initiative to create a national network of walking routes connecting all of Great Britain's towns and cities as well as thousands of villages. Use this Slow Ways route planning map to find and plan walking routes that connect places.





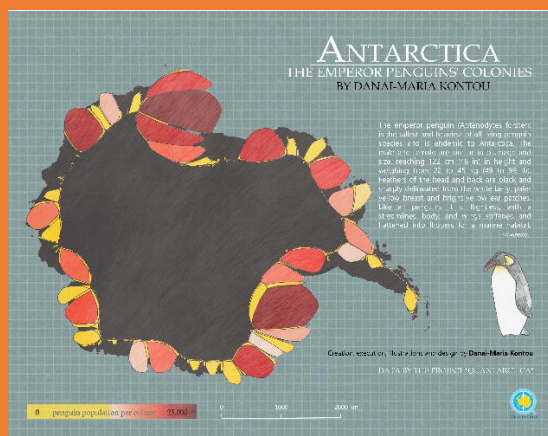
## GBR\_MP11

## Penguinland

Type of material	paper
Scale (if relevant)	1:20,000,000
Dimensions (mm)	267 * 210
Author(s)	
Published by	Danai-Maria Kontou
Date of publication	Danai-Maria Kontou
Language(s) of the legend	English

**Abstract/Description**  
(in English or French;  
100 words max)

This Cartogram of the population of Emperor Penguins in Antarctica explores the visualisation methods of cartograms as non-bordered territories, as cartograms are usually used. The data used are from the Project Quantarctica.

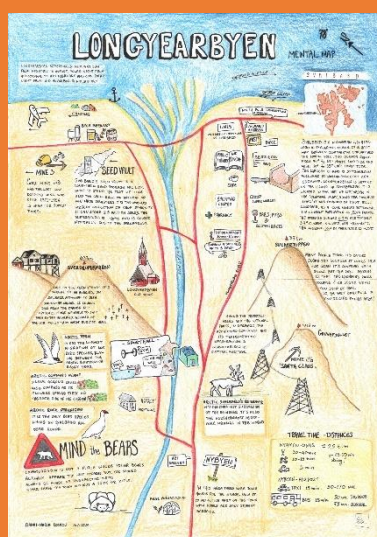




## GBR\_MP12

## Longyearbyen, a mental map

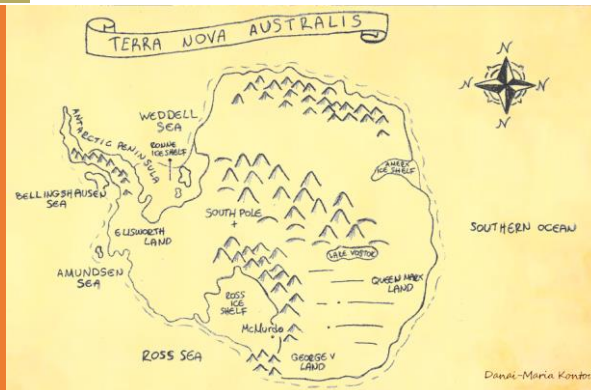
Type of material	paper
Scale (if relevant)	Approx 1:20,000
Dimensions (mm)	210 * 297
Author(s)	Danai-Maria Kontou
Published by	Danai-Maria Kontou
Date of publication	March 2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	An informative mental map of Longyearbyen, Svalbard, Norway illustrates the important town's sites and instructions and rules about the town that one should follow while there and facts about the flora and fauna.



## GBR\_MP13

## Terra Nova Australis, an almost fantasy map

Type of material	Paper
Scale (if relevant)	1:20,000,000
Dimensions (mm)	210 * 297
Author(s)	Danai-Maria Kontou
Published by	Danai-Maria Kontou
Date of publication	March 2020
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	A hand-drawn Antarctic map, its style is inspired by contemporary fantasy maps.



## GBR MP14

### Canadian Archipelago, a Pop-Art synthesis

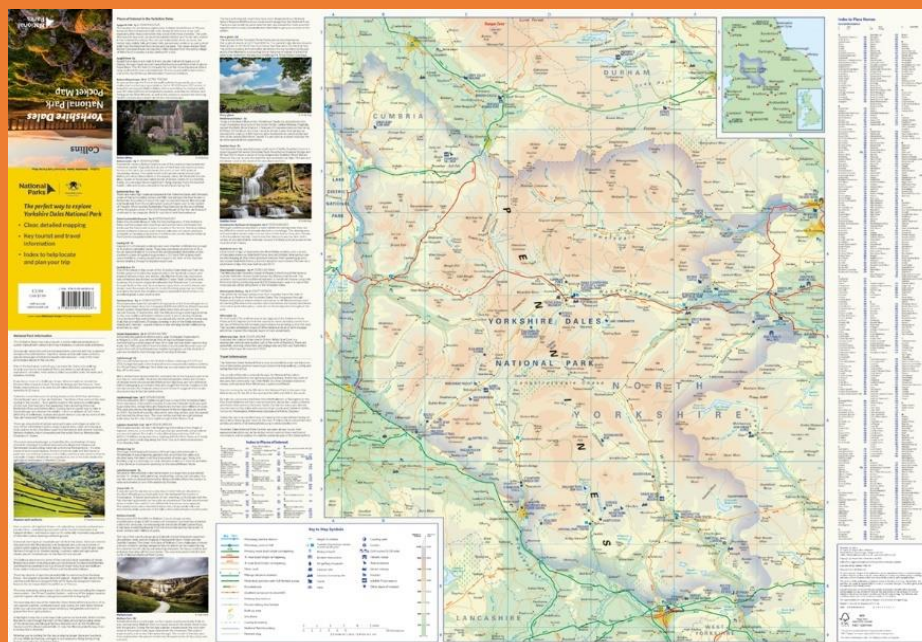
Type of material	paper
Scale (if relevant)	~ 1:55,000,000
Dimensions (mm)	210 * 210
Author(s)	Danai-Maria Kontou
Published by	Danai-Maria Kontou
Date of publication	November 2020
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	A synthesis of four identical map of the Canadian Arctic Archipelago in different background colours. The artistic visualization of the archipelago consists of four maps in blue and white, with marked grids. The background is hand-written information about the archipelago.



## GBR\_MP15

## Yorkshire Dales National Park Pocket Map

Type of material	paper
Scale (if relevant)	1:140,000
Dimensions (mm)	810 * 560
Author(s)	National Parks UK and Collins Maps
Published by	Collins (Harper CollinsUK)
Date of publication	March 2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	Handy little full colour map of Yorkshire Dales National Park. Detailed mapping and visitor information to the National Park along with a selection of photographs.



## CHARTS ON PANELS

## GBR\_CP1

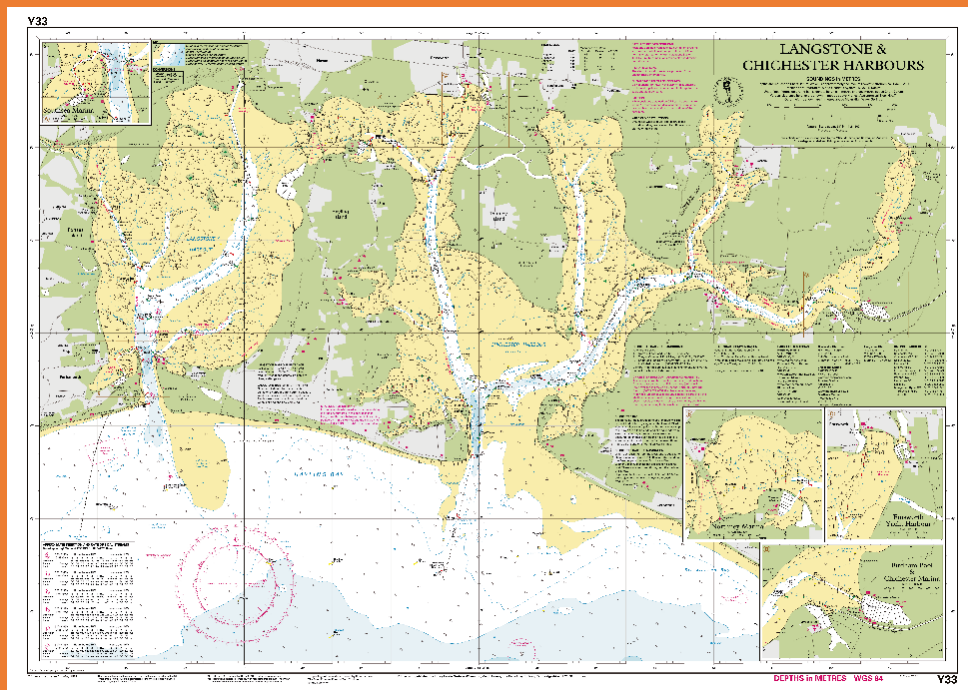
## Langstone and Chichester Harbours – Y33

Type of material	Water resistant paper
Scale (if relevant)	1:21,500
Dimensions (mm)	900 * 640
Author(s)	Imray
Published by	Imray, Norie & Wilson Ltd
Date of publication	May 2021
Language(s) of the legend	English



**Abstract/Description  
(in English or French;  
100 words max)**

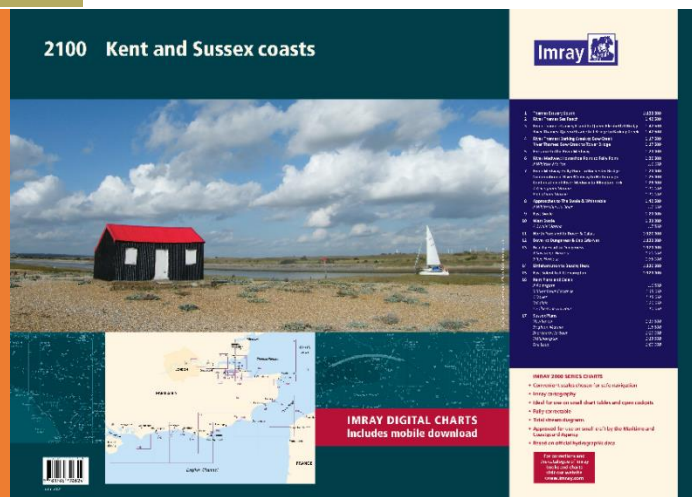
A new edition corrected to May 2021, including 5 detailed plans. Based on up-to-date Hydrographic Office Surveys, Imray charts include extra information sourced from experienced sailors. They receive continual attention from our skilled cartographers to ensure they are as up to date as possible. Includes code for digital download.



**GBR\_CP2**

***Kent and Sussex coasts***

Type of material	Water resistant paper
Scale (if relevant)	Variable, with full coverage at 1:120,000 or larger
Dimensions (mm)	594 * 420
Author(s)	Imray
Published by	Imray, Norie & Wilson Ltd
Date of publication	June 2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	Portfolio of 17 charts, presented double sided in a plastic wallet. Imray charts set the standards for the leisure sector with award-winning cartography which feature our distinctive colour scheme, coloured light sectors and fine overprinted latitude and longitude grids which make plotting easier. In addition to the main chart coverage, the portfolio includes 17 details chartlets of harbours, etc., and charts of tidal streams. It includes a code for digital download.



### GBR\_CP3

### Hand Cut Depth Model of the Isle of Wight

Type of material	Mounted paper
Scale (if relevant)	1:100,000
Dimensions (mm)	549 * 420
Author(s)	Peter Bolt
Published by	Imray
Date of publication	2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	Hand cut depth model of the Isle of Wight made from an Imray Nautical chart



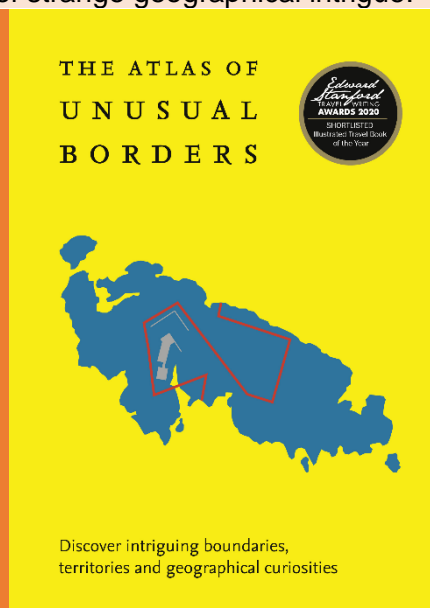
## ATLASES

GBR_AT1 <i>The Times Reference Atlas of the World</i>	
Type of material	Hard bound
Number of pages	272
Dimensions (mm)	242 * 333
Author(s)	Times Atlases
Published by	Times Books (Harper Collins UK)
Date of publication	May 2021
Language(s) of the text	English
Abstract/Description (in English or French; 100 words max)	<p>Ninth edition of this popular atlas from the prestigious and authoritative Times Atlas range. A comprehensive guide to the world's states and territories including flags, capitals and key statistics. Making this an ideal reference atlas for home, school or office.</p> <p>Main features</p> <ul style="list-style-type: none"> <li>• Authoritative mapping of the whole world</li> <li>• Plans of 46 of the world's major cities</li> <li>• Geographical reference section with flags and statistics for the world's states and territories</li> <li>• Maps and illustrations on major geographical themes, including earthquakes, population, cities, climate and migration</li> <li>• Historical mapping of the world from 1858 to the present day</li> <li>• More than 45,000 index entries</li> </ul>
	

GBR_AT2 <i>The Atlas of Unusual Borders</i>	
Type of material	Soft bound
Number of pages	256
Dimensions (mm)	148 * 210



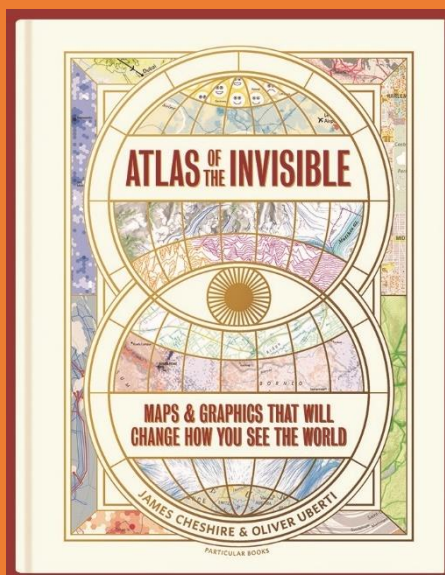
Author(s)	Zoran Nikolić
Published by	Collins (Harper Collins UK)
Date of publication	October 2019
Language(s) of the text	English
Abstract/Description (in English or French; 100 words max)	<p>This beautifully designed book presents unusual borders, enclaves and exclaves, divided or non-existent cities and islands. Shortlisted for the 2020 Edward Stanford Travel Writing Award's.</p> <p>Examples include:</p> <ul style="list-style-type: none"> <li>• Campione d'Italia where Italian residents have to travel 15km through Switzerland to reach the nearest available Italian territory</li> <li>• Tomb of Suleyman Shah which is a tiny Turkish enclave within Syria which was moved closer to Turkey when Lake Assad was created but still stayed in Syria</li> <li>• Pheasant Island which for half a year belongs to the Spanish city of Irun, and the remaining half, to its French twin-town, Hendaye</li> </ul> <p>These and many more instances are captured in this fascinating book full of strange geographical intrigue.</p>



GBR_AT3 <i>Atlas of the Invisible</i>	
Type of material	Hard bound
Number of pages	216
Dimensions (mm)	195 * 255
Author(s)	James Cheshire and Oliver Uberti
Published by	Particular Books (UK)
Date of publication	September 2021
Language(s) of the text	English

**Abstract/Description**  
(in English or French;  
100 words max)

In *Atlas of the Invisible*, award-winning geographer-designer team James Cheshire and Oliver Uberti redefine what an atlas can be. Transforming enormous data sets into rich maps and cutting-edge visualisations, they uncover truths about our past, reflect who we are today, and highlight what we face in the years ahead. With their joyfully inquisitive approach, Cheshire and Uberti explore happiness and anxiety levels around the globe; they trace the undersea cables and cell towers that connect us; they examine hidden scars of geopolitics; and illustrate how a warming planet affects everything from hurricanes to the hajj. Years in the making, *Atlas of the Invisible* invites readers to marvel at the promise and peril of data, and to revel in the secrets and contours of a newly visible world.



## EDUCATIONAL PRODUCTS

### GBR\_EP1

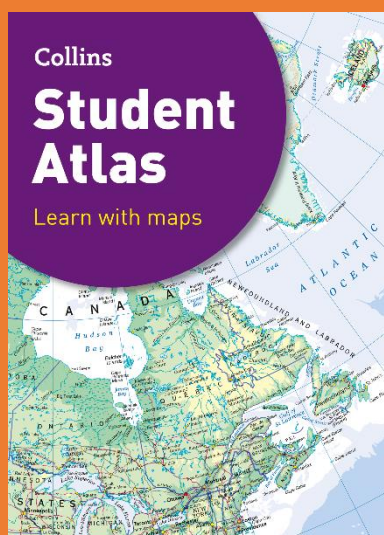
### Collins Student Atlas

Author(s)	Collins Maps
Type	Atlas – 208 pages
Dimensions (mm)	226 * 312
Published by	Collins (Harper Collins UK)
Date of publication	February 2021
Language(s) of the product	English

**Abstract/Description**  
(in English or French;  
100 words max)

Fully revised and updated for 2021, this curriculum-supportive world atlas is the perfect tool for students aged 14-16 years (Key Stage 4, GCSE 9-1).

- Colour coded for ease of use
- Includes thematic maps and accompanying graphs and tables
- Covers tourism, telecommunications, environmental and socio-economic topics
- Lists relevant web addresses on each thematic page so students can explore topics more deeply
- High quality satellite imagery supports data on the maps and is used to illustrate key environmental issues
- Up-to-date demographic and socio-economic statistics can be used to support geographical, tourist, Mathematical, economic or IT projects



**GBR\_EP2**

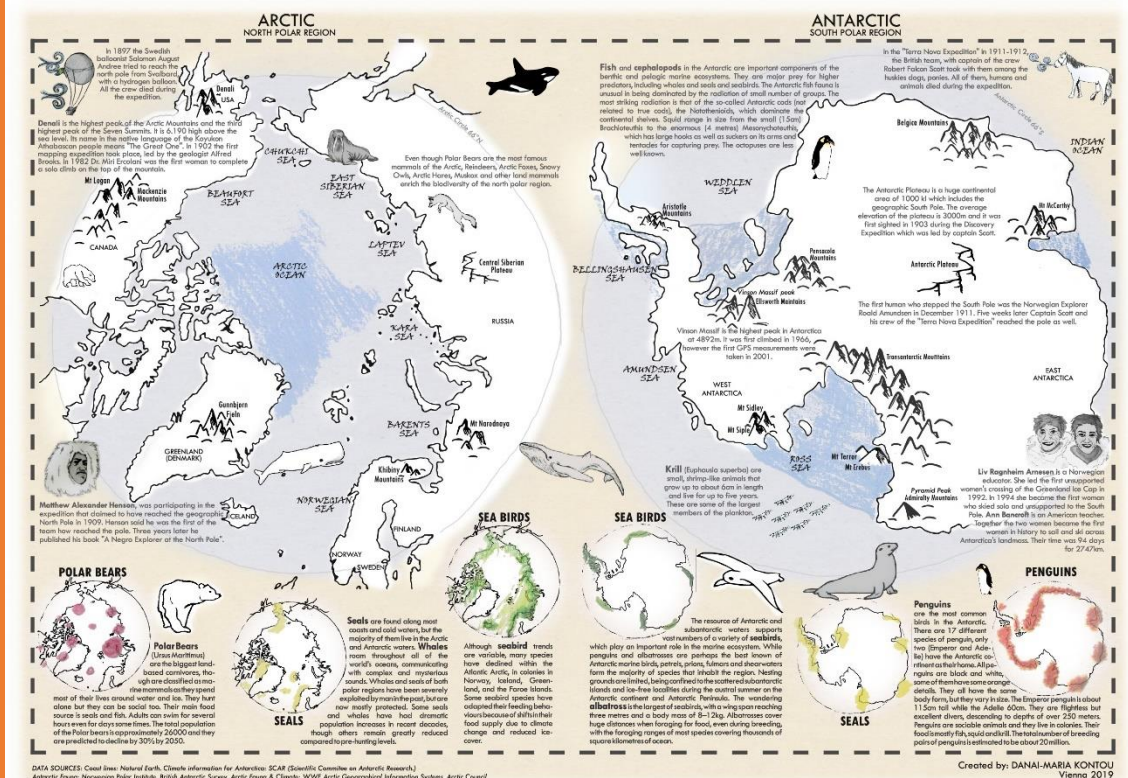
**PolarFanzine#1**

Author(s)	Danai-Maria Kontou
Type	Folded leaflet
Dimensions (mm)	293 * 420
Published by	Cartographymaster.eu
Date of publication	July 2019
Language(s) of the product	English

**Abstract/Description**  
(in English or French;  
100 words max)

The aim of the brochure and the main map is to inform and make aware the readers regarding the similarities and the differences of the polar regions in some main topics but also regarding the human impact on these two regions. The topics of interest on this project are the climate, the fauna, and the human impact. Arctic and Antarctica were almost the last unknown places explored in the world, early in the 20th century. Since then, human impact and aggressive activities always kept increasing.





## OTHER CARTOGRAPHIC PRODUCTS

GBR\_OC1

Lean Delta

Author(s)	Danai-Maria Kontou
Type	Paper print
Dimensions (mm)	260 * 146
Published by	Danai-Maria Kontou
Date of publication	November 2020
Language(s) of the product	English
Abstract/Description (in English or French; 100 words max)	This artistic "abstract-looking" map illustrates a part of the river Lena's delta in Siberia. The colours variation is based on the DEM.



## GBR\_OC2

## Polar Origami

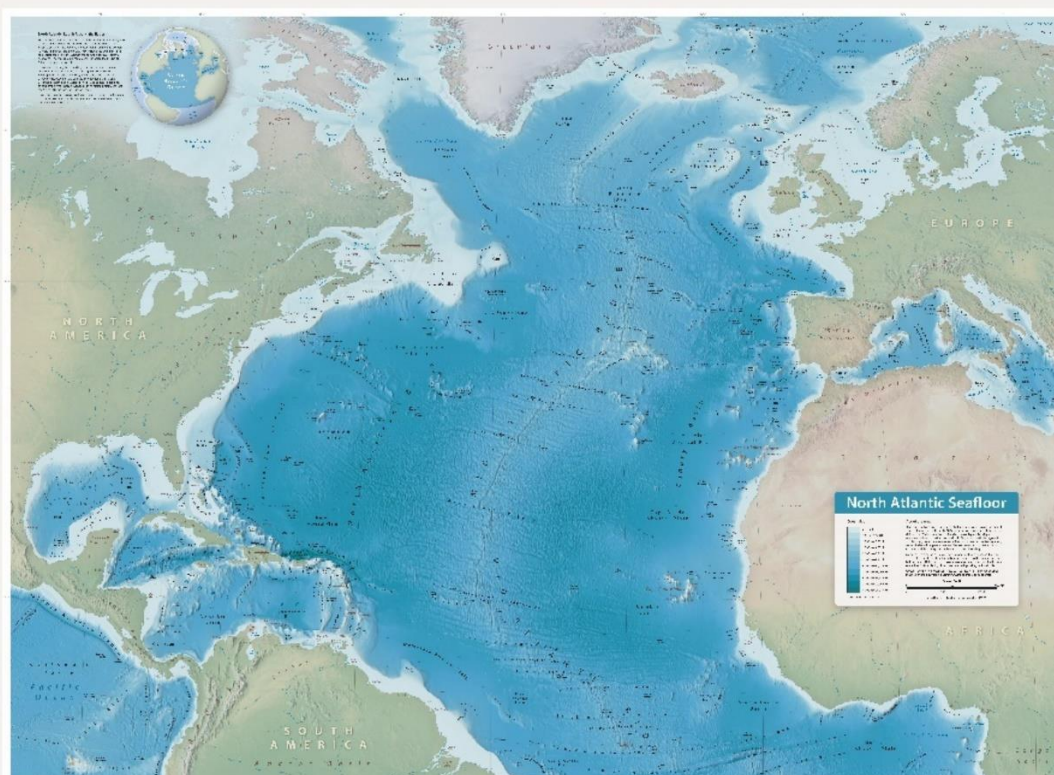
<b>Author(s)</b>	Danai-Maria Kontou
<b>Type</b>	paper
<b>Dimensions (mm)</b>	210 * 297
<b>Published by</b>	Danai-Maria Kontou
<b>Date of publication</b>	November 2020
<b>Language(s) of the product</b>	English
<b>Abstract/Description (in English or French; 100 words max)</b>	The Polar Origami is craft cartographic project, and its purpose is to interactively and creatively inform the user about polar facts. For this craft to make sense, the user should cut and assembly the origami, which is based in the “ninja star origami”, by following the illustrated instructions on top of the sheet of paper. Once the origami is assembled, it can open and close by sliding the 8 sides. Each side represents one polar region, by closing and opening each side the user can either see the map or read facts about the Arctic or Antarctica.







<b>Dimensions (mm)</b>	1029 x 762
<b>Author(s)</b>	Tom Patterson
<b>Published by</b>	shadedrelief.com
<b>Date of publication</b>	29 July 2020
<b>Language(s) of the legend</b>	English
<b>Abstract/Description (in English or French; 100 words max)</b>	<p>This map showcases bottom features of the North Atlantic Ocean, including abyssal plains, banks, canyons, seamounts, trenches, and the scar-like Mid-Atlantic Ridge. Above the waves, the map offers select coastal cities for reference. Blue Earth Bathymetry is the source of all topography shown on the map. It is an edited version of the GEBCO (General Bathymetric Chart of the Oceans) dataset. The 3D topography, rendered as plan oblique relief, depicts undersea features in partial profile with 1,100 percent vertical exaggeration. Mapped terrestrial areas derive from Natural Earth vector and raster data. The GEBCO Gazetteer of Undersea Feature Names was the source for ocean bottom labels. <a href="http://www.shadedrelief.com/atlantic/">http://www.shadedrelief.com/atlantic/</a></p>



USA_MP3		Physical Features of North America	
Type of material	Paper		
Scale (if relevant)	1:7,500,000		
Dimensions (mm)	1158 x 1194		
Author(s)	Tom Patterson		

Published by	shadedrelief.com
Date of publication	9 March 2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	North America is an ideal continent for physical mapping. The irregular coast, varied terrain, and diverse environments form a cartographic mosaic of colors and textures. Besides being beautiful, these features also tell geographic stories. The cordillera running along the entire Pacific coast gives evidence of the theory of plate tectonics. And looking south from Canada's arctic islands to Panama's rain forests, we see the influence of latitude and elevation on natural vegetation. I made this map during the winter of 2020-21 to keep busy during the pandemic. It is comprised of freely available geospatial data. <a href="http://www.shadedrelief.com/north-america/">http://www.shadedrelief.com/north-america/</a>



USA_MP4 <i>Physical Features of the Contiguous US</i>	
Type of material	Paper
Scale (if relevant)	1:4,380,000
Dimensions (mm)	1143 x 762
Author(s)	Tom Patterson
Published by	shadedrelief.com
Date of publication	11 May 2020

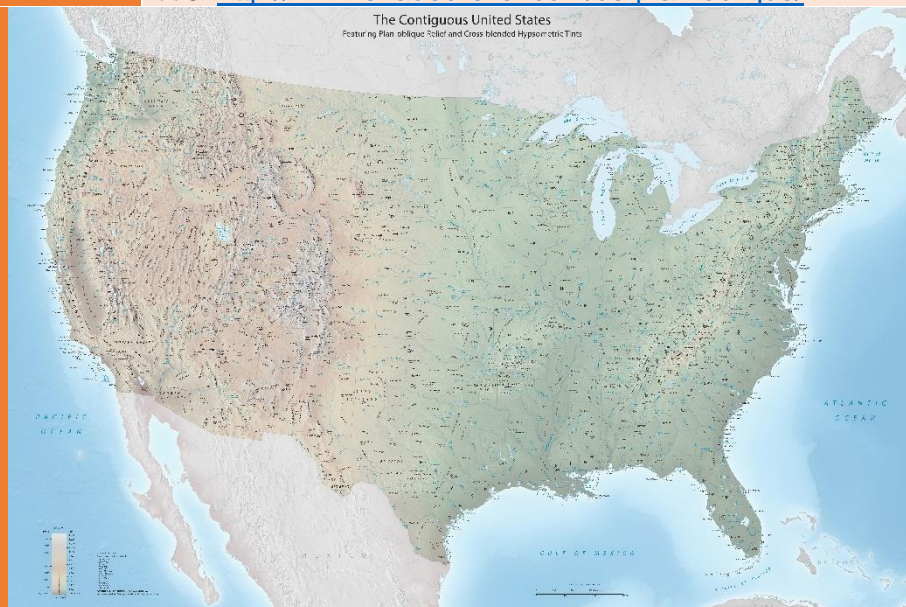


Language(s) of the legend	English	
Abstract/Description (in English or French; 100 words max)	<p>Explore the United States coast to coast with this map showcasing physical landscape features—mountains, plains, rivers, lakes, etc. Map colors reflect natural environments across the continent from the forested east to the snowcapped Rockies to the desert southwest. It includes a smattering of cities and faint state lines for reference. With abundant physical features everywhere, a challenge was selecting what to show on the map. I scoured atlases, US Geological Survey topographic maps, and online sources to identify intriguing features. A draft posted on Twitter had 35,000 views in 24 hours, which provided me with valuable feedback. <a href="http://www.shadedrelief.com/us-physical/">http://www.shadedrelief.com/us-physical/</a></p>	
		

USA_MP5 The Contiguous United States Featuring Plan-oblique Relief and Cross-blended Hypsometric Tints		
Type of material	Paper	
Scale (if relevant)	1:4,420,000	
Dimensions (mm)	1143 x 762	
Author(s)	Tom Patterson	
Published by	shadedrelief.com	
Date of publication	27 May 2020	
Language(s) of the legend	English	
Abstract/Description (in English or French; 100 words max)	This map of the 48 contiguous US states features plan oblique relief, a terrain rendering technique that yields three-dimensional mountains. Higher elevations have vertical offset. The map also employs cross-blended hypsometric tints to represent elevation zones. They are the usual colors found on elevation maps but with a major difference: arid lowlands are brown instead of green. We don't want to have Death Valley looking like a jungle, do we? Originally released in 2007, this 2020 update	



has lighter and brighter colors, many more place name labels, and a new title. <http://www.shadedrelief.com/us-plan-oblique/>



## USA\_MP6

### Prince William Sound, Alaska

Type of material	Paper
Scale (if relevant)	1:250,000
Dimensions (mm)	1118 x 914
Author(s)	Tom Patterson
Published by	shadedrelief.com
Date of publication	6 December 2019
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	As a cartographer and admirer of Alaskan landscapes, I have always been fascinated by the intermingled islands, fjords, glaciers, and mountains of Prince William Sound. Making a map of it turned out being more laborious than I had ever imagined. The culprit: climate change. Although much of the data that went into making the map was of recent vintage, glaciers in the region have melted noticeably these last few years. Columbia Glacier, for example, lost another one kilometer of its length during the summer of 2019. Given the need for constant updates, consider this map as a snapshot in time. <a href="http://shadedrelief.com/pws/">http://shadedrelief.com/pws/</a>

Prince William Sound, Alaska



## USA\_MP7

## Malaspina Glacier Panorama

Type of material	Paper
Scale (if relevant)	Not applicable
Dimensions (mm)	1016 x 556
Author(s)	Tom Patterson
Published by	shadedrelief.com
Date of publication	28 May 2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	<p>You are looking at North America's icy heartland with a telephoto lens from an altitude of 206 kilometers—one half as high as the International Space Station. I rendered this panorama to showcase a wild landscape where human development is minimal. It is a rare day with no clouds. The sprawling Malaspina Glacier with its concentric rings of ice, rubble, and meltwater is front and center. I started this project in 2017 and then put it aside for four years. However, accelerating climate change brought newfound urgency to my mapping. I wanted to map this beautiful glacier while it still exists. <a href="http://www.shadedrelief.com/malaspina/">http://www.shadedrelief.com/malaspina/</a></p>





## USA\_MP8

### *The Essential Geography of the United States of America, Edition 2, Version 3.1*

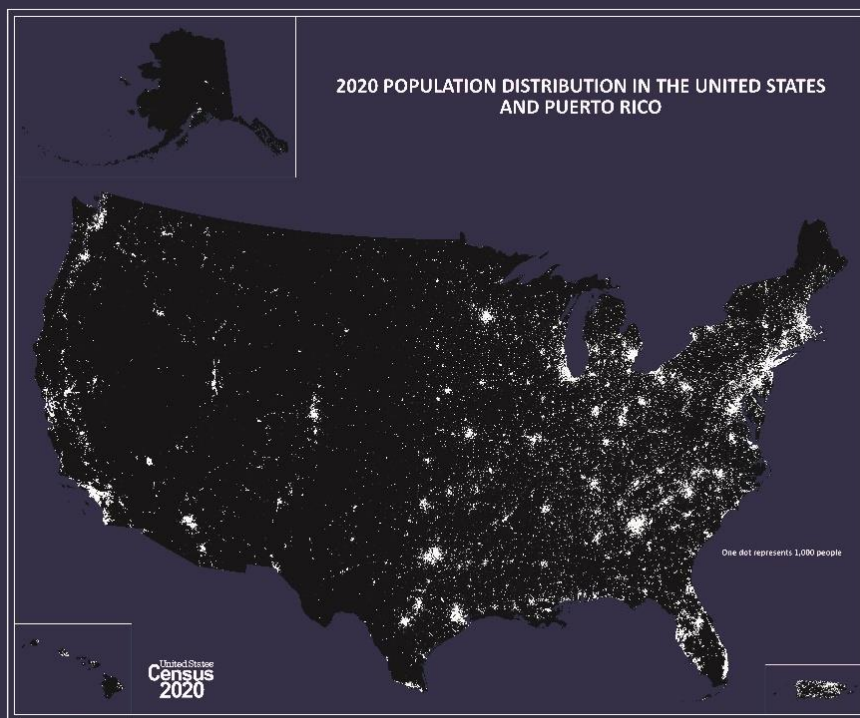
Type of material	Paper
Scale (if relevant)	1:4,000,000
Dimensions (mm)	1278 x 912
Author(s)	Dave Imus
Published by	Imus Geographics
Date of publication	2021
Language(s) of the legend	English, Spanish, and French
Abstract/Description (in English or French; 100 words max)	Rather than treating geography as a field of academic investigation, this work treats geography as a genre of aesthetic appreciation. It explores the art of making the basic tapestry of land, water and humanity understandable and visually appealing to a broad audience. Employing manual-digital practices that observe Imhofian principles of clarity, each line has been rendered and each type label has been placed by eye. Inspired by botanical painting, the terrain image uses photo editing techniques to blend four original shade images: standard, generalized, slope and elevation. The result is a clear presentation of an aesthetic subject: basic geography.





## USA\_MP9 2020 Population Distribution in the United States and Puerto Rico

Type of material	Paper
Scale (if relevant)	1:7,500,000 (lower 48 states and Hawaii); 1:18,000,000 (Alaska); 1:4,500,000 (Puerto Rico)
Dimensions (mm)	711.2 x 609.6
Author(s)	U.S. Census Bureau
Published by	U.S. Census Bureau
Date of publication	30 September 2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	The 2020 Population Distribution in the United States and Puerto Rico wall map portrays the distribution of the population in the United States and Puerto Rico based on the results of the 2020 Census. The map is a dot map with each map representing 1,000 people and is commonly referred to as a nighttime map.

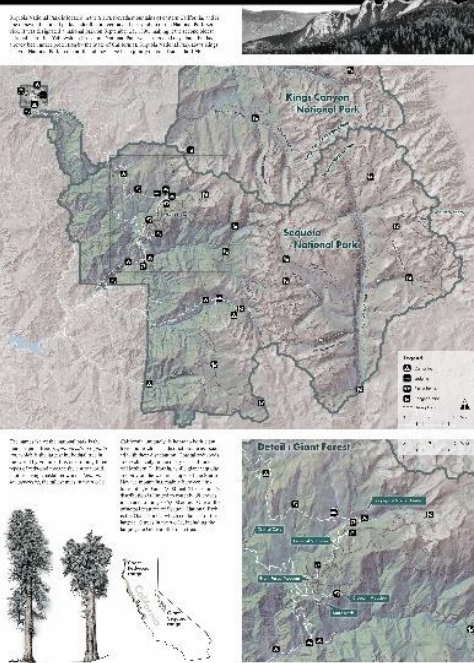


## USA\_MP10

### *Sequoia National Park: Trail Map and Guide*

Type of material	Paper
Scale (if relevant)	One inch equals 10 miles
Dimensions (mm)	304.8 x 457.2
Author(s)	Christopher Hayner
Published by	Christopher Hayner
Date of publication	2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	In response to a graduate seminar assignment prompt to design a tourism map for any location within California, this brochure was created for visitors arriving at Sequoia National Park. The design format uses the style of the well-known National Park Service templates devised by Massimo Vignelli. Given the variety of park users and differing interests, the design content includes a full park map with hiking trails, a detail of the major sights, and multi-media details to introduce the unique megafauna that lends the park its name. The shaded relief maps were inspired by the work of Swiss cartographer Eduard Imhof.

### Sequoia National Park Trail Map and Guide



USA_MP11 <i>Large-scale Restoration of Public Lands on the Colorado Plateau</i>	
Type of material	Paper
Scale (if relevant)	1:543,000
Dimensions (mm)	914.4 x 1219.2
Author(s)	Stephanie Smith
Published by	Grand Canyon Trust
Date of publication	9 June 2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	This map captures the muted tones of the Colorado Plateau desert that fills every canyon and horizon. With a desaturated palette with minimum outlines and shading a simplistic approach allows the areas to shine. Hypsometric tinting combined with aerial imagery over a multi-directional hillshade create a realistic yet artistic shaded relief. The background features outside the focus area are desaturated with low opacity that fades to white. The focus area is highlighted with a subtle drop shadow and high opacity. The streamlined legend focuses on the full landscape but directs the reader's eye to each individual conservation area.





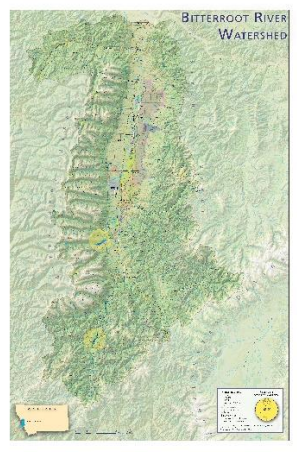
## USA\_MP12

### Bitterroot River Watershed

Type of material	Paper
Scale (if relevant)	1:400,000
Dimensions (mm)	609.6 x 914.4
Author(s)	Zach Goodwin
Published by	Zach Goodwin
Date of publication	1 December 2019
Language(s) of the legend	English

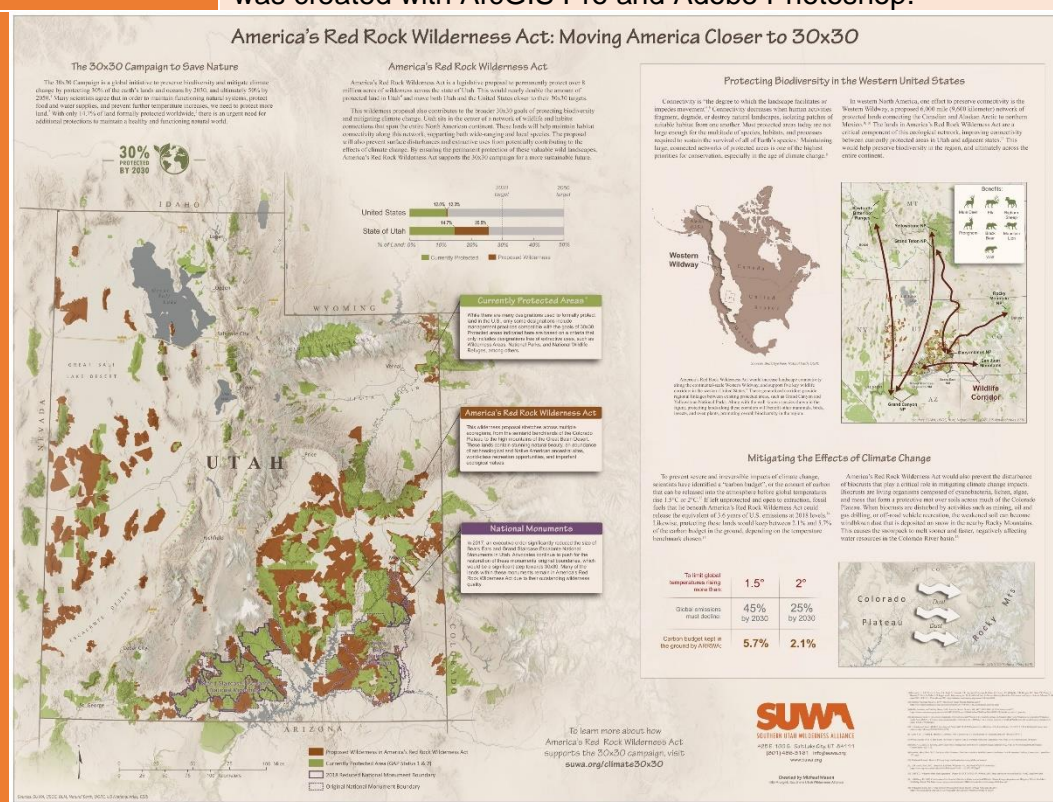
#### Abstract/Description (in English or French; 100 words max)

This rendering of the Bitterroot Watershed, Montana, USA combines a custom shaded relief with a prominent display of all publicly available data regarding irrigation infrastructure, irrigation districts, and water reservoirs & dams. In addition, and for context, the map displays some transportation infrastructure, land designation boundaries, and geographic features of interest. My hope for this map is that it will serve as a communication tool useful to seemingly disparate valley stakeholders who all have a critical shared interest: water.



## USA\_MP13 America's Red Rock Wilderness Act: Moving America Closer to 30x30

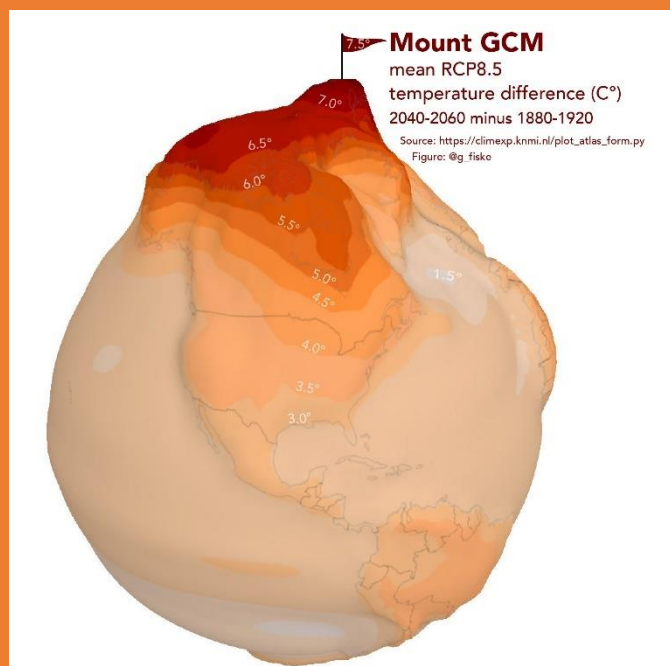
Type of material	Paper
Scale (if relevant)	1:950,000
Dimensions (mm)	1219 x 914
Author(s)	Michael Mason
Published by	Southern Utah Wilderness Alliance
Date of publication	June 2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	America's Red Rock Wilderness Act (ARRWA) is a legislative proposal to permanently protect over 8 million acres of wilderness across the state of Utah in the U.S. This infographic-style product demonstrates how ARRWA supports the goals of the global 30x30 campaign to protect biodiversity and mitigate climate change. The various maps and figures use blend modes and muted colors to balance visual elements, and simple icons to communicate spatial phenomena intuitively. This product was created with ArcGIS Pro and Adobe Photoshop.



## USA\_MP14 Mount GCM

Type of material	Paper
Scale (if relevant)	Not relevant
Dimensions (mm)	609.6 x 609.6

Author(s)	Greg Fiske
Published by	Woodwell Climate Research Center ( <a href="https://woodwellclimate.org">https://woodwellclimate.org</a> )
Date of publication	2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	General Circulation Models, or GCMs, help us understand our changing climate. This map visualizes temperature change as a substitute for true elevation in a 3D map, illustrating the disproportionate effect of climate change on the Arctic using the Representative Concentration Pathways (RCP) worst-case scenario RCP8.5 (i.e. business as usual). The map represents the mean temperature difference (C°) projected temperatures for the 2040–2060 time frame (under RCP8.5) minus temperatures for the 1880–1920 time frame. The map uses data from the KNMI Climate Explorer, a web-based tool for researchers developed by the Royal Netherlands Meteorological Institute.

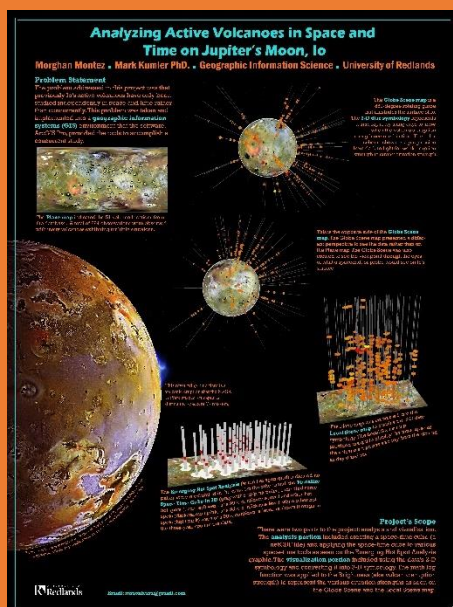


<b>USA_MP15</b>	<i>Analyzing Active Volcanoes in Space and Time on Jupiter's Moon, Io</i>
Type of material	Paper
Scale (if relevant)	Not to scale
Dimensions (mm)	771.525 x 1066.8
Author(s)	Morghan Montez and Mark Kumler
Published by	University of Redlands
Date of publication	November 2020
Language(s) of the legend	English



**Abstract/Description  
(in English or  
French; 100 words  
max)**

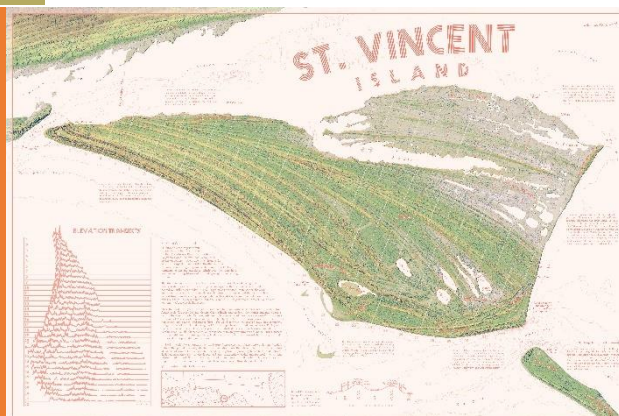
Io is the most volcanic planetary object in our solar system. Io's active volcanoes have only been previously studied independently in space and time, but not concurrently. To achieve a concurrent study, a database provided by a client from the Planetary Science Institute, contains data from NASA's Galileo Near-Infrared Mapping Spectrometer (NIMS) instrument that was used in a 2018 publication. The data was implemented in Esri's ArcGIS Pro to: analyze (space-time tools) and visualize (3D visualizations) the active volcanoes. The final products produced are a 2D map and several 3D maps (Global Scene and Local Scene).



**USA\_MP16**

**St. Vincent Island**

Type of material	Paper
Scale (if relevant)	1:17,600
Dimensions (mm)	914.4 x 609.6
Author(s)	Aaron Koelker
Published by	Aaron Koelker
Date of publication	November 2020
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	Abstract: Not the Caribbean country, but an interesting place of the same name along the Florida Gulf Coast. An island that wears its geological history on its sleeve, with a distinct pattern of sandy ridges marking the remnants of ancient shores. I started making the map as a personal challenge to try and highlight a topography that, while interesting, was very, very flat – and it later grew into a way of sharing the island's unique cultural and ecological history, as well.



## USA\_MP17

### Grave Smoky Mountains National Park

Type of material	Paper
Scale (if relevant)	Not applicable
Dimensions (mm)	914.4 x 609.6
Author(s)	Aaron Koelker
Published by	Aaron Koelker
Date of publication	October 2019
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	This map depicts more than 150 known cemeteries within Great Smoky Mountains National Park and highlights the somewhat overlooked human-element of a place known for its bears, waterfalls, and titular misty peaks. Every name on it is an invitation to explore the story of a forgotten community, an isolated family, or a mysterious individual. The border contains epitaphs taken from headstones within those sites.

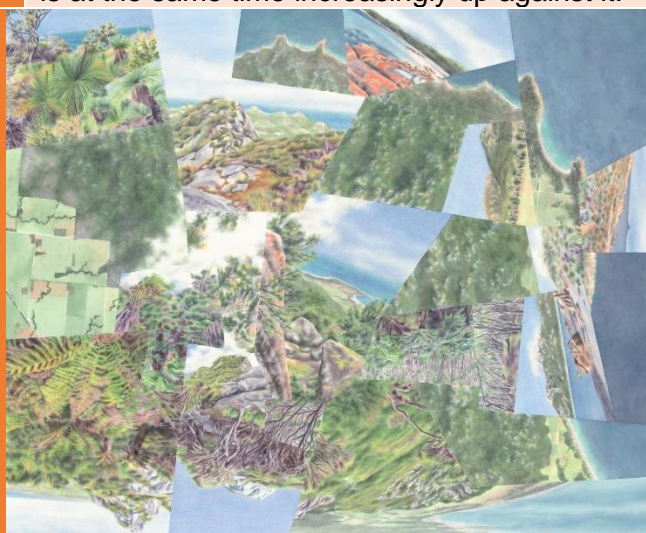


## USA\_MP18

### Sanctuary II: Embracing Strzelecki National Park, Flinders Island, Tasmania

Type of material	Paper print; Original, watercolor on paper
Scale (if relevant)	Not applicable
Dimensions (mm)	Print 889 x 725; Original 112 x 90

<b>Author(s)</b>	Darren Sears
<b>Published by</b>	Darren Sears ( <a href="http://www.darrensears.com">www.darrensears.com</a> ); exhibited courtesy of Hang Art Gallery, San Francisco
<b>Date of publication</b>	September 2021
<b>Language(s) of the legend</b>	English
<b>Abstract/Description (in English or French; 100 words max)</b>	This map captures my experience, simultaneously spatial and immersive, of this evocative, multi-dimensional place—rocky peaks, dry scrublands and forests, and unexpected pockets of relict rainforest all squeezed into a corner of the island between ocean and farmland. By compressing these already-dramatic contrasts into a single view, the "worldview" (as I call it and similar works) heightens the empowering feeling of having an entire "world at my fingertips." My yearning for that sensation includes a protective impulse, signaling my distress at the ecological vulnerability of this special world-apart from civilization that is at the same time increasingly up against it.



USA_MP19 <i>Landforms of Michigan</i>	
<b>Type of material</b>	Paper
<b>Scale (if relevant)</b>	Approximately 1:820,000
<b>Dimensions (mm)</b>	838.2 x 939.8
<b>Author(s)</b>	Daniel P. Huffman
<b>Published by</b>	Daniel P. Huffman
<b>Date of publication</b>	2021
<b>Language(s) of the legend</b>	English
<b>Abstract/Description (in English or French; 100 words max)</b>	This map is a love song for my Great Lakes homeland; a chance to better learn its grammar. It's the map I wish I'd had when I was growing up in west Michigan, showing in great detail the landscape that surrounded me. While I spent a great deal of time carefully preparing the terrain representation, much of the work went into the toponym research. Many of these valleys and plains and moraines do not have official federal



names, so I had to pore through old maps to find consensus on common names. I also judiciously coined some of my own.



USA_MP20		Baja California
Type of material	Photo Paper	
Scale (if relevant)	1:1,000,000	
Dimensions (mm)	762 x 1168	
Author(s)	Benchmark Maps	
Published by	Benchmark Maps	
Date of publication	5 May 2021	
Language(s) of the legend	English	
Abstract/Description (in English or French; 100 words max)	A general reference wall map of the Baja California Peninsula created alongside a road and recreation atlas of the subject area. It demonstrates hypsometric tinting on land and ocean floor along with multi-angle and multi-software shading to model the terrain. The latest cities, roads, drainages, coastlines, and municipality boundaries have been thoroughly researched. Historic missions and the Baja Divide Trail were contributed by outside researchers. At this scale, this is the most accurate, complete, and timely map of the Baja California Peninsula to date.	



## USA\_MP21

### Reference Map for the Salish Sea Bioregion

Type of material	Paper
Scale (if relevant)	1:1,600,000
Dimensions (mm)	279.4 x 431.8
Author(s)	Aquila Flower
Published by	Western Washington University
Date of publication	2 May 2020
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	The Salish Sea is an international estuarine ecosystem encompassing an intricate network of inland marine waterways in Washington, USA and British Columbia, Canada. The concept of a cohesive Salish Sea region has become a critical focal point for local education, research, restoration, conservation, and policy development over the last decade. This is a general reference map for the Salish Sea and its watersheds, including a cohesive transboundary topobathymetric model. Created as part of an open access atlas.



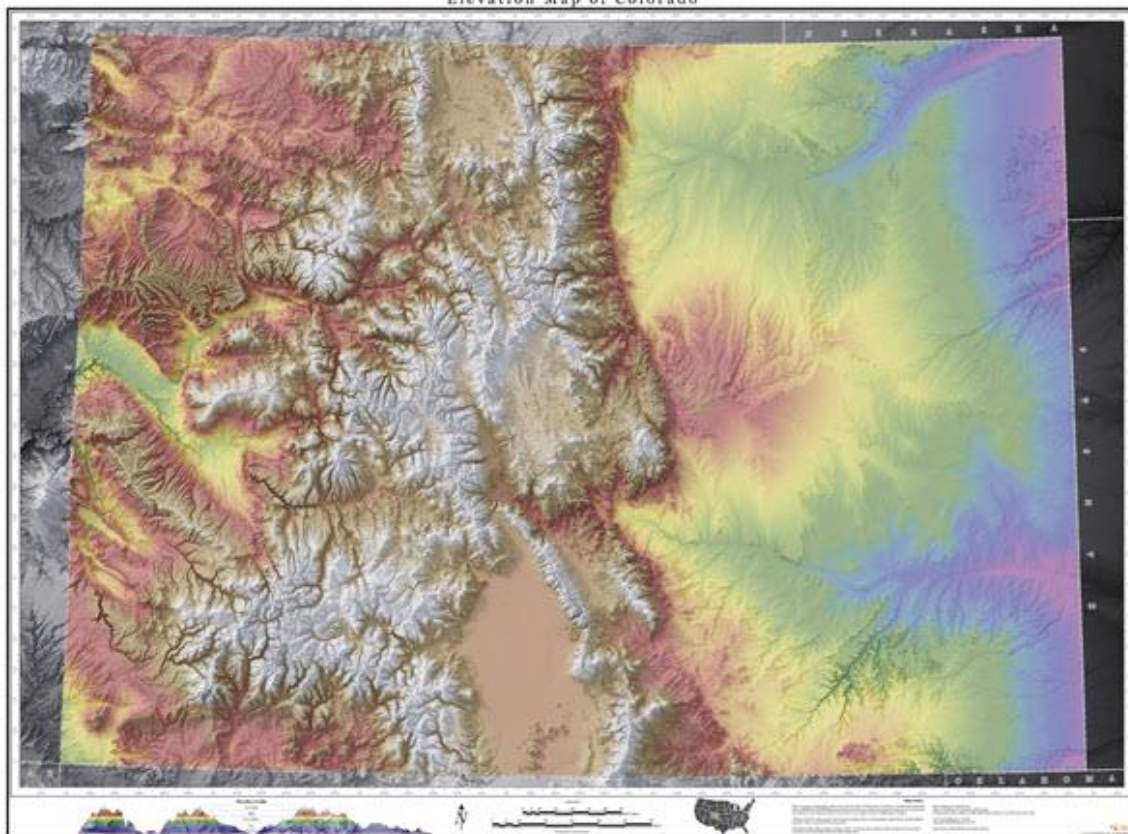
## USA\_MP22

## Elevation Map of Colorado, USA

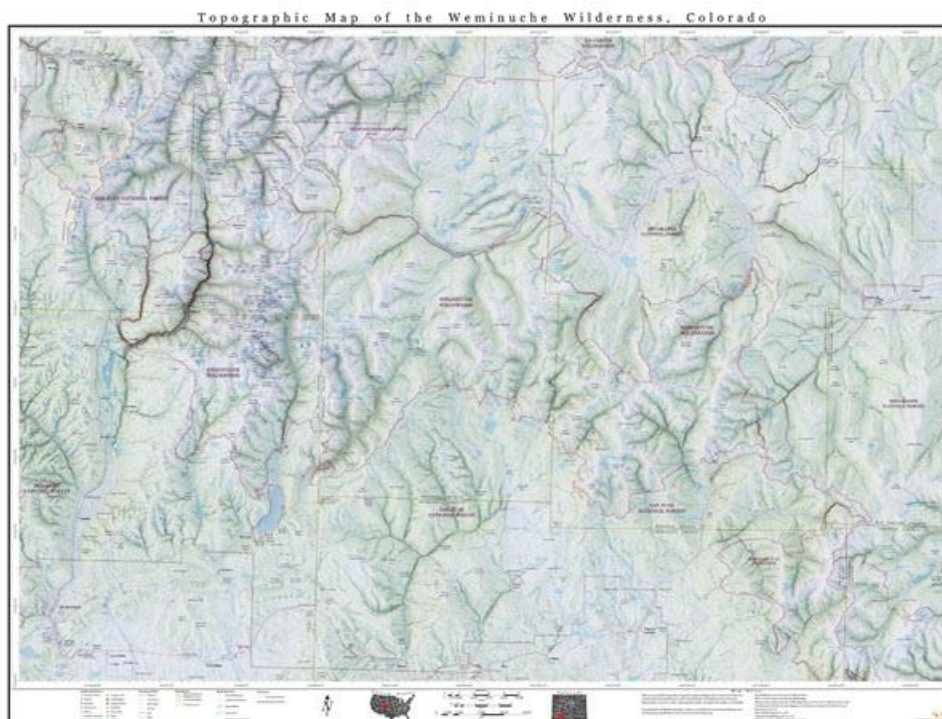
Type of material	Paper
Scale (if relevant)	1:600,000
Dimensions (mm)	1219.2 x 914.4
Author(s)	Sterling Loetz
Published by	SterlingCarto LLC
Date of publication	2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	This map shows the topography and terrain across the state of Colorado in vivid color. A combination of Digital Terrain Model data and hillshade processing techniques are used to accentuate the bare earth terrain across the landmass. A continuous color stream is shown in a high resolution, high dynamic fashion. Relative elevation values range from the lowest purple-blues to intermediate copper-browns to the highest greyish-whites, as seen in the elevation profile. Mountain peaks, valleys, plateaus, plains, deltas, and many more characteristics produced from geologic processes can be discerned from this elevation map alone.



Elevation Map of Colorado



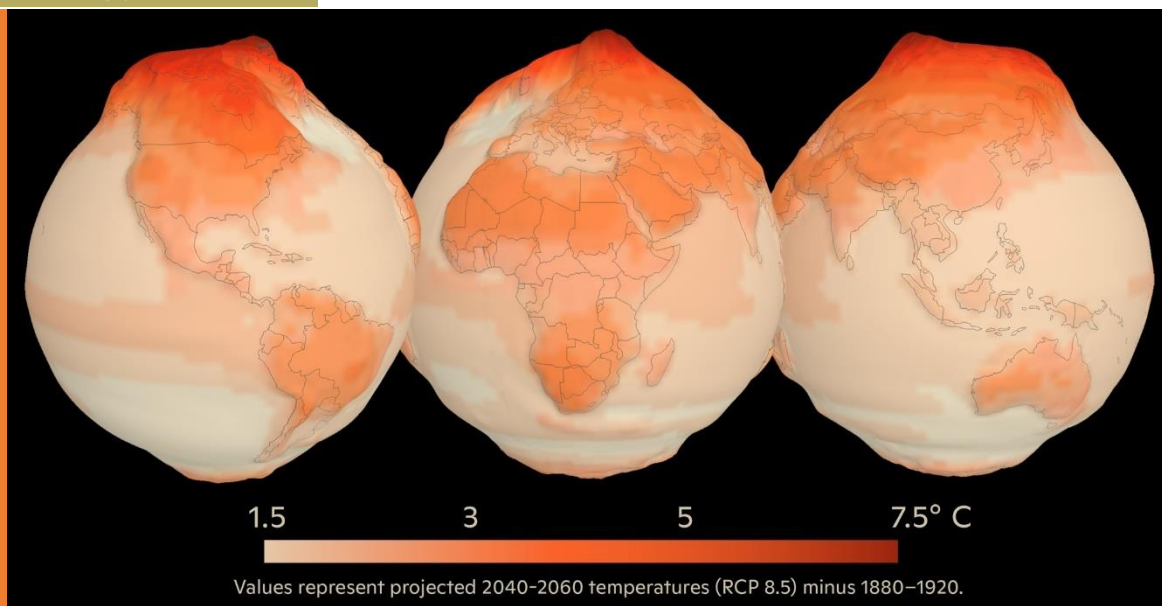
<b>USA_MP23</b>	<b><i>Topographic Map of the Weminuche Wilderness</i></b>	
<b>Type of material</b>	Paper	
<b>Scale (if relevant)</b>	1:110,000	
<b>Dimensions (mm)</b>	1219.2 x 914.4	
<b>Author(s)</b>	Sterling Loetz	
<b>Published by</b>	SterlingCarto LLC	
<b>Date of publication</b>	2021	
<b>Language(s) of the legend</b>	English	
<b>Abstract/Description (in English or French; 100 words max)</b>	This map uses USGS inspired cartographic design to display the Weminuche Wilderness and San Juan National Forest in southwest Colorado, USA. Notable locations of interest, hydrography, elevation contours, trails, roads, and boundaries throughout the region are included. A combination of digital terrain data, contours, and hillshade processing techniques are used to accentuate the bare earth terrain across the landscape.	



## USA\_MP24

### Disproportionate Warming of the Arctic

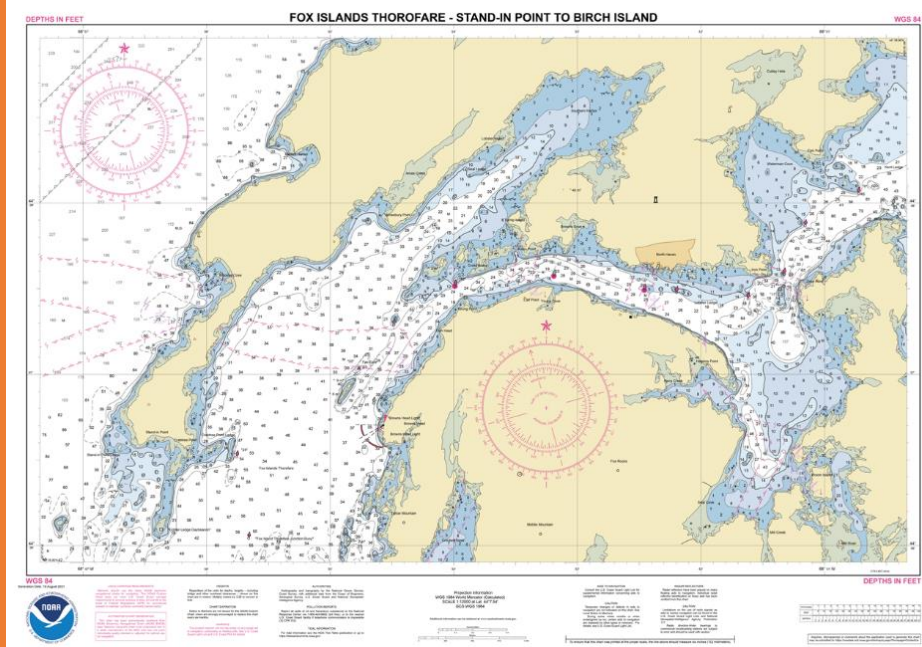
Type of material	Paper
Scale (if relevant)	No relevant
Dimensions (mm)	393.7 x 596.9
Author(s)	Greg Fiske
Published by	Woodwell Climate Research Center ( <a href="https://woodwellclimate.org">https://woodwellclimate.org</a> )
Date of publication	2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	The Arctic is warming more than twice as fast as the global average, with implications from greenhouse gas release to disruption of weather patterns. This map visualizes temperature change as a substitute for true elevation in a 3D map, with three different hemispherical perspectives, illustrating the disproportionate effect of warming on the Arctic. The data represents the mean temperature difference (C°) projected temperatures for the 2040–2060 timeframe (under RCP8.5) minus temperatures for the 1880–1920 time frame. The map uses data from the KNMI Climate Explorer, a web-based tool for researchers developed by the Royal Netherlands Meteorological Institute.



## CHARTS ON PANELS

USA_CP1 <i>Fox Islands Thorofare - Stand-in Point to Birch Island</i>	
Type of material	Paper
Scale (if relevant)	1:12,000
Dimensions (mm)	841 x 594
Author(s)	Christie Ence
Published by	National Oceanic and Atmospheric Administration (NOAA)
Date of publication	19 August 2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	The National Oceanic and Atmospheric Administration (NOAA) Marine Chart Division is responsible for producing nautical charts for the United States and its territories. The NOAA Custom Chart (NCC) is an online application that allows users to create personalized paper nautical charts using current official NOAA electronic navigational chart (NOAA ENC®) data. Users can customize the scale, page size, unit, and symbology for their chart to best suit their needs. The application then selects the appropriate data and generates a chart using pre-configured templates and conditional programming. The output consists of a geospatial-PDF chart with appended note pages for textual information.





## ATLASES

### USA\_AT1

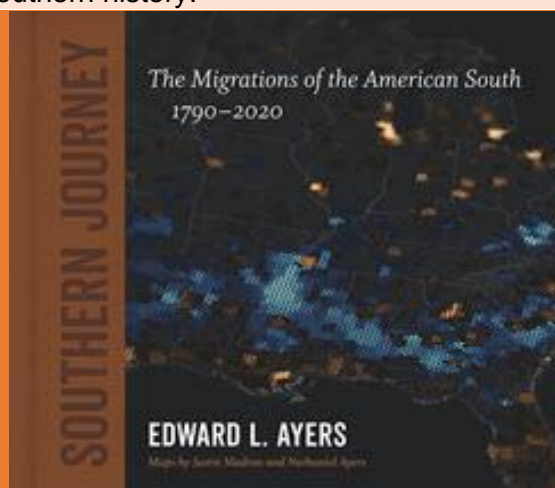
### National Geographic Family Reference Atlas, 5<sup>th</sup> Edition

Type of material	Paper
Number of pages	400
Dimensions (mm)	260.35 x 342.9
Author(s)	Debbie J. Gibbons, Jerome N. Cookson, Maureen J. Flynn, Mike McNey, Gregory Ugiansky, Matthew W. Chwastyk, Theodore A. Sickley, Scott A. Zillmer
Published by	National Geographic Books Division
Date of publication	Autumn 2020
Language(s) of the text	English
Abstract/Description (in English or French; 100 words max)	Hundreds of maps, together with graphics and illustrations, display the world and all that is in it, making this the all-in-one reference for every family library. Every country in the world is represented by a detailed map, flag, key statistics, and secondary maps conveying cultural and ecological information, with photographs bringing the facts to life. Special sections feature maps of the ocean, the solar system, and the universe beyond. Illustrated pages, complete with maps and graphics, explore topics ranging from climate and weather to languages and religions of the world. All maps created using the MaPublisher plug-in to Adobe Illustrator.



## USA\_AT3 *Southern Journey: The Migrations of the American South, 1790–2020*

Type of material	Paper
Number of pages	176
Dimensions (mm)	304.8 x 266.7
Author(s)	Ed Ayers, Justin Madron, Nathaniel Ayers
Published by	LSU Press
Date of publication	November 2020
Language(s) of the text	English
Abstract/Description (in English or French; 100 words max)	Taking a wide focus, <i>Southern Journey</i> narrates the evolution of southern history from the founding of the nation to the present day by focusing on the settling, unsettling, and resettling of the South. Using migration as the dominant theme of southern history and including indigenous, white, black, and immigrant people in the story, this atlas cuts across the usual geographic, thematic, and chronological boundaries that subdivide southern history.



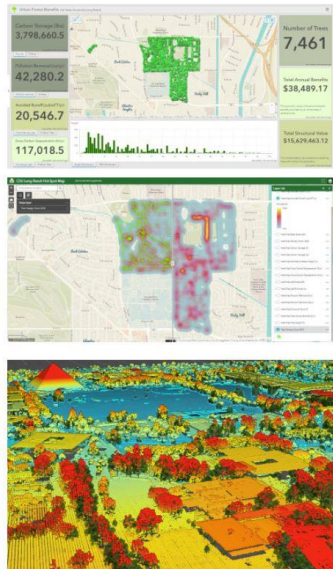
## DIGITAL PRODUCTS

### USA\_DP1 *California State University, Long Beach - Benefits of Trees*

Type	ArcGIS Hub Page, Dashboard, Web Map, 3D Scene: <a href="https://benefits-of-trees-csu-long-beach-csulb.hub.arcgis.com/">https://benefits-of-trees-csu-long-beach-csulb.hub.arcgis.com/</a>
File format (10 words)	Web page
Operating system	Internet browser
License	Not applicable
Author(s)	Andrew Pineda
Published by	Andrew Pineda



Date of publication or most recent update	Summer 2021
Scale	Not applicable
Language(s) of the presentation	English
Abstract/Description (in English or French; 100 words max)	A Case Study on the environmental benefits of trees within California State University, Long Beach. Quantifying the benefits of our trees using a GIS inventory and i-Tree Eco. i-Tree Eco is an application within i-Tree which is a state-of-the-art software suite from the USDA Forest Service designed to quantify the ecosystem services and structural benefits, values, and characteristics of a forest. Video: <a href="https://youtu.be/MNMEUwtLB4I">https://youtu.be/MNMEUwtLB4I</a>



**Tree Benefits Dashboard**  
Interactively pan through a map of CSULB's tree inventory and see the benefits of the trees on the map. As you explore the map, the benefit widgets will update in real time! There are also tools for selecting a certain set of sites and/or filtering by species, DBH, and/or height.

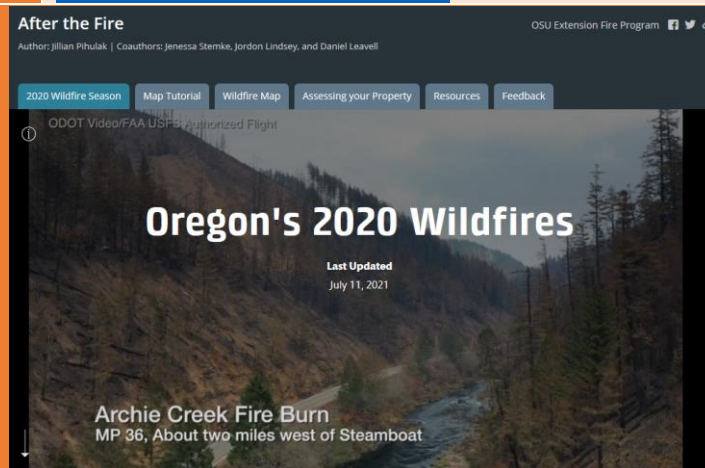
**Tree Benefits Web Map**  
Interactively explore the benefits of individual trees and/or map heat maps of individual tree benefit attributes. Using the Layer List you can add various layers to the map. You can click on an individual tree to see the specific benefits and/or select a group of trees to open the attribute table for the trees. There is also a swipe tool for comparing the heat map of various layers.

**3D Trees & Buildings**  
Explore a 3D rendering of CSULB's buildings and trees. Use the daylight tool to explore how a tree's location and shadow can provide cooling and/or heating benefits to nearby buildings. Trees and buildings were created utilizing a combination of methods including 3D basemaps, deep learning, LIDAR data, and other geospatial tools.

<b>USA_DP2</b>	<b><i>After the Fire: Resources for Recovery</i></b>
Type	Web mapping application + StoryMap series: <a href="https://beav.es/afterthefire">https://beav.es/afterthefire</a>
File format (10 words)	ArcGIS Web Mapping application, supplemental information in tabbed map series
Operating system	Not applicable
License	CC
Author(s)	Jillian Pihulak, Jenessa Stemke, Jordon Lindsey, and Daniel Leavell
Published by	Extension Fire Program, Oregon State University College of Forestry
Date of publication or most recent update	September 2021
Scale	Multi-scale
Language(s) of the presentation	English

**Abstract/Description**  
(in English or  
French; 100 words  
max)

The *After the Fire* map is an interactive, comprehensive resource for Oregon residents recovering from wildfire. Created in response to the devastating 2020 fire season in Oregon, USA, this statewide service is now continually maintained and updated by the Oregon State University Extension Service Fire Program. The digital mapping tool, guide, and resource list are intended to help affected landowners understand, assess, and respond to post-fire hazards. Following a wildfire, a map is required to attain federal emergency funding, and the *After the Fire* map helps landowners prioritize steps to take and helps them begin to implement the process of recovery. Video: <https://youtu.be/iCpXq9e5O8o>



**USA\_DP4**

***Salish Sea Atlas - Chapter 1: Where is the Salish Sea?***

Type	Web map: <a href="https://arcg.is/azWbv">https://arcg.is/azWbv</a>
File format (10 words)	.mp4 for video abstract; StoryMap for the maps
Operating system	Not applicable
License	CC - Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License
Author(s)	Aquila Flower
Published by	Western Washington University
Date of publication or most recent update	October 2020
Scale	Not applicable
Language(s) of the presentation	English
Abstract/Description (in English or French; 100 words max)	The Salish Sea is an international estuarine ecosystem encompassing an intricate network of inland marine waterways in Washington, USA and British Columbia, Canada. The concept of a cohesive Salish Sea region has become a critical focal point for local education, research, restoration, conservation, and policy development over the last decade. This is a general reference map for the Salish Sea and its watersheds,

including a cohesive transboundary topobathymetric model. Created as part of an open access atlas. Video: <https://youtu.be/S79H61Dq6pk>



## USA\_DP5 Southern Journey: The Migrations of the American South, 1790-2010 (StoryMap)

Type	ArcGIS StoryMap: <a href="https://dsl.richmond.edu/southernjourney/">https://dsl.richmond.edu/southernjourney/</a>
File format (10 words)	Web app
Operating system	NA
License	NA
Author(s)	Justin Madron, Nathaniel Ayers, Ed Ayers
Published by	Justin Madron
Date of publication or most recent update	18 June 2020
Scale	Varies
Language(s) of the presentation	English
Abstract/Description (in English or French; 100 words max)	We are not surprised when maps show the southeastern corner of the United States standing apart in politics, religion, health, economics, and opinion. The South, after all, has differed in fundamental ways from the rest of the country since the nation's founding. That difference has been fed by constant movement, by restless journeys to, across, and from the South from the eighteenth century to the twenty-first. The migrations of the South weave throughout American history, indigenous, enslaved, citizen, and immigrant people moving among one another, their paths



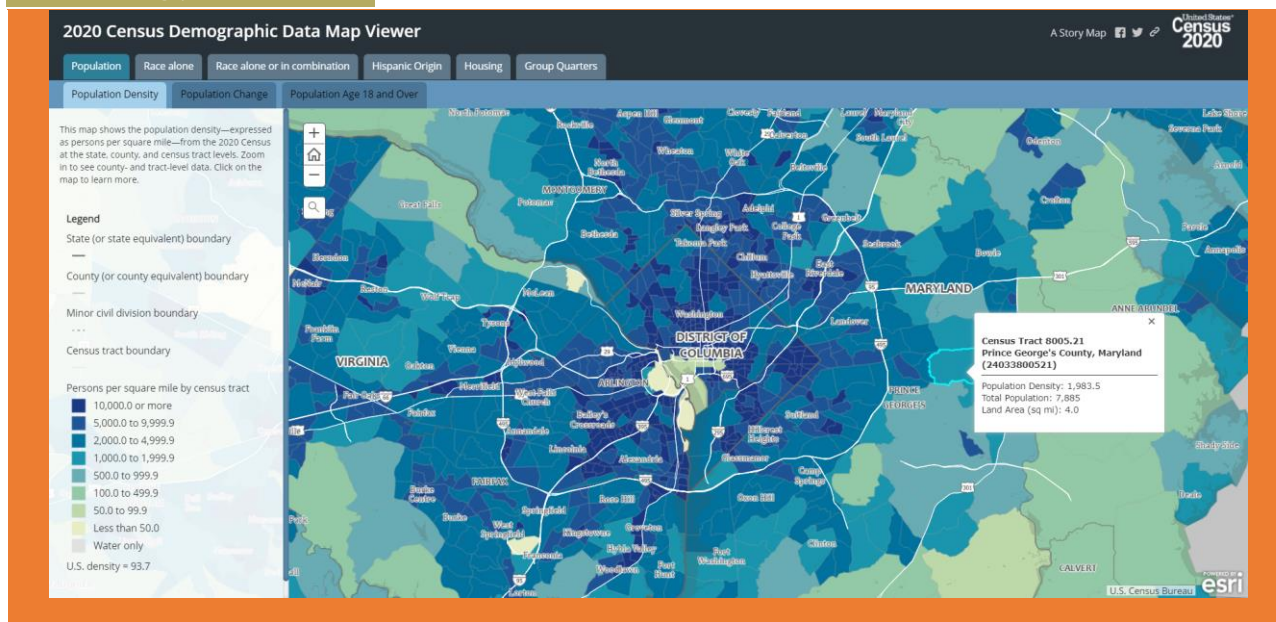
tracing patterns both bold and intricate. Video:  
<https://www.youtube.com/watch?v=Bspf7VcePUY>



## USA\_DP6

### 2020 Census Demographic Data Map Viewer

Type	Web map: <a href="https://www.census.gov/library/visualizations/2021/geo/demographicmapviewer.html">https://www.census.gov/library/visualizations/2021/geo/demographicmapviewer.html</a>
File format (10 words)	Web-browser based application
Operating system	Device agnostic; web-browser based application
License	Not applicable
Author(s)	U.S. Census Bureau
Published by	U.S. Census Bureau
Date of publication or most recent update	12 August 2021
Scale	Multi-scale
Language(s) of the presentation	English
Abstract/Description (in English or French; 100 words max)	The 2020 Census Demographic Data Map Viewer is a web map application that includes state-, county-, and census tract-level data from the 2020 Census. The application includes data related to population, race, Hispanic origin, housing, and group quarters. The map automatically switches from state data to county data and tract data as you zoom in to more detailed scales. Video: <a href="https://www.census.gov/data/academy/data-gems/2021/how-to-visualize-2020-census-redistricting-data-for-your-area.html">https://www.census.gov/data/academy/data-gems/2021/how-to-visualize-2020-census-redistricting-data-for-your-area.html</a>



## DIGITAL SERVICES

<b>USA_DS1</b>	<b>COVID-19 Dashboard by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University (JHU)</b>	
<b>Type of service</b>	Feature service and real-time dashboard and data sharing	
<b>Format (10 words)</b>	CSV files, Esri Living Atlas Service	
<b>Software platform</b>	Web	
<b>URL web link</b>	<a href="https://coronavirus.jhu.edu/map.html">https://coronavirus.jhu.edu/map.html</a>	
<b>License</b>	The data set is licensed under the Creative Commons Attribution 4.0 International (CC BY 4.0) by the Johns Hopkins University on behalf of its Center for Systems Science in Engineering.	
<b>Author(s)</b>	Dr. Lauren Gardner and Ensheng Dong	
<b>Published by</b>	Center for Systems Science and Engineering (CSSE) at Johns Hopkins University (JHU)	
<b>Date of publication or most recent update</b>	First published on 22 January 2020 and maintained hourly since then	
<b>Scale</b>	Multi-scale	
<b>Language(s) of the presentation</b>	English	
<b>Abstract/Description (in English or French; 100 words max)</b>	On January 22, 2020, one day after the US reported its first COVID-19 case, Johns Hopkins University Center for Systems Science and Engineering (CSSE) launched the first global real-time coronavirus surveillance dashboard. It provides a geospatial visualization of COVID-19 cases for more than 3,500 locations. All underlying data are publicly	

available in a GitHub repository. The entire system has gained more than 205 billion requests in its first year, with the highest daily requests surpassing 4.5 billion. This dashboard is considered the leading resource for the public, policymakers, and research community, providing the most up-to-date information on the COVID-19 pandemic.  
<https://coronavirus.jhu.edu/map.html>



## EDUCATIONAL PRODUCTS

<b>USA_EP1</b>	<b>Statistics in Schools: Understanding the U.S. Population</b>
<b>Author(s)</b>	U.S. Census Bureau
<b>Type</b>	Poster
<b>Dimensions (mm)</b>	1219.2 x 914.4
<b>Published by</b>	U.S. Census Bureau
<b>Date of publication</b>	9 December 2019
<b>Language(s) of the product</b>	English
<b>Abstract/Description (in English or French; 100 words max)</b>	The Statistics in Schools program of the U.S. Census Bureau provides data, tools, and activities that educators can incorporate into their lessons to help teach statistics concepts and data analysis to students. This wall map was designed for display in high school classrooms across the U.S. in the leadup to the 2020 Census. It depicts population density by county for the United States and Puerto Rico. It also includes a proportional circle map depicting population growth from 1920 to 2017, a line graph showing the historical change in census population from 1790 to 2010, and other supporting graphics.





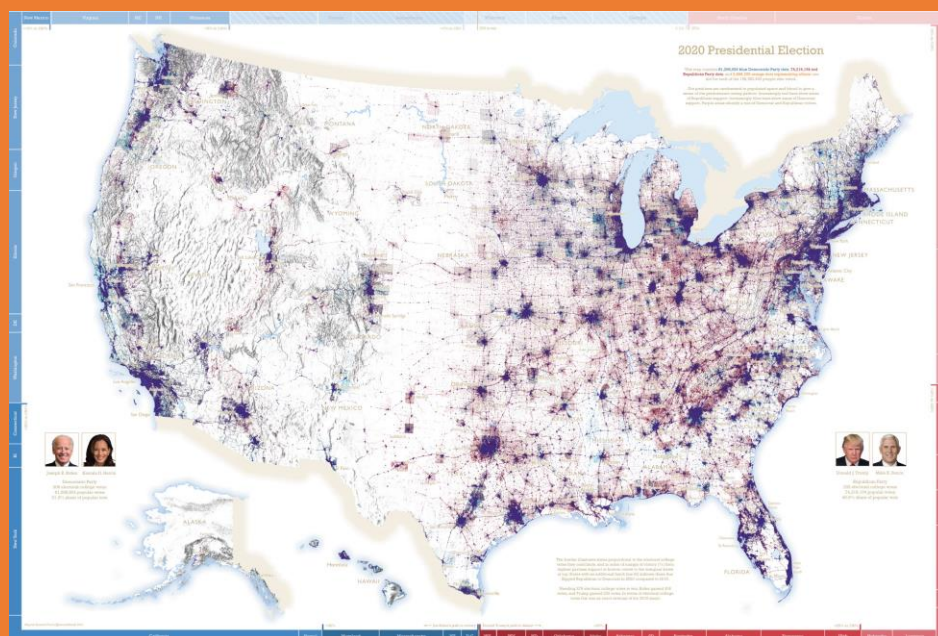
# USA\_ESRI

## MAPS ON PANELS

### USE\_MP1

### 2020 Presidential Election

Type of material	Paper (laminated)
Scale (if relevant)	1:6,000,000 (main map)
Dimensions (mm)	914 x 609
Author(s)	Kenneth Field
Published by	Esri
Date of publication	25 June 2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	This map contains 81,268,924 blue Democratic Party dots, 74,216,154 red Republican Party dots, and 2,898,325 orange dots representing others; one dot for each of the 158,383,403 people who voted in the 2020 US Presidential election. Dot positions are randomised in populated space and blend to give a sense of the predominant voting pattern through the mixing of blue, red, and purple hues. The border illustrates states proportional to the electoral college votes they contribute, and in order of margin of victory (%) from highest partisan support at bottom centre to the marginal states at top.



## USE\_MP2

## Where is the Nearest National Park?

Type of material	Print
Scale (if relevant)	Not relevant
Dimensions (mm)	685.88 x 685.88
Author(s)	Emily Meriam
Published by	Esri
Date of publication	13 April 2021
Language(s) of the legend	English

### Abstract/Description (in English or French; 100 words max)

This map was designed in the style of USA National Park posters from the 1930s-40s. A Voroni diagram (Thiessen polygon) was created to show proximity and distance "As the crow flies" in ArcGIS Pro with the latest National Park Service boundaries. To make the land background, aerial imagery was exported to Adobe Illustrator where a "Cut-out" effect was applied to complete the look and feel. The image was then georeferenced back in ArcGIS Pro where the layout was finished. All font and map elements were designed with a vintage style giving viewers that familiar connection to the past.





## USE\_MP3

## Where are the Wettest Regions on Earth?


Type of material	Print
Scale (if relevant)	Not relevant
Dimensions (mm)	685.8 x 863.6
Author(s)	Emily Meriam
Published by	Esri
Date of publication	18 May 2021
Language(s) of the legend	English

**Abstract/Description (in English or French; 100 words max)**

The WorldClim 2.1 image service provides downscaled estimates of global climate variables as monthly means over the period of 1970-2000. While designing the default palette for the layer, the cartographer became curious about the global monthly precipitation events. So, in ArcGISPro a Zonal Statistics Analysis was performed using a delineation boundary of the most commonly used hydrologic unit, the Global Water Provinces. The map first shows annual mean precipitation followed by 12 monthly mean maps, all highlighting the top five wettest water provinces.

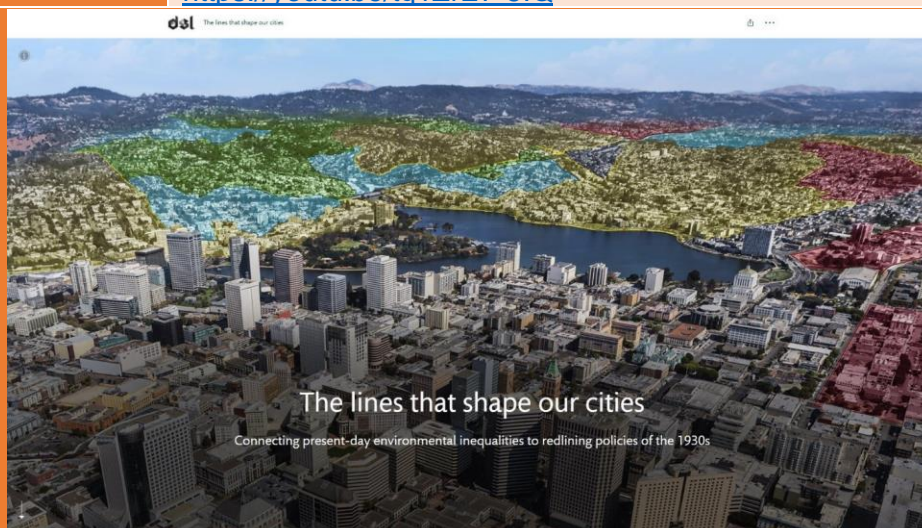


## DIGITAL PRODUCTS

USE_DP1 <i>How Deep is Challenger Deep?</i>	
Type	ArcGIS StoryMap: <a href="https://esriurl.com/challengerdeepness">https://esriurl.com/challengerdeepness</a>
File format (10 words)	Web application
Operating system	Not applicable
License	CC BY-NC-ND
Author(s)	John Nelson
Published by	Esri, Inc.
Date of publication or most recent update	1 June 2021
Scale	Not applicable
Language(s) of the presentation	English
Abstract/Description (in English or French; 100 words max)	Challenger Deep is the lowest point on the Earth's crust. Located within the already-deep Mariana Trench in the western Pacific Ocean, the actual deepness of Challenger Deep strains the imagination. This story explores the geologic causes for its depths, summarizes its history of exploration, and illustrates the depth in a manner that helps conceptualize its magnitude. Video: <a href="https://youtu.be/jUWc7pJfDm4">https://youtu.be/jUWc7pJfDm4</a>
	

USE_DP2 <i>The lines that shape our cities: Connecting present-day environmental inequalities to redlining policies of the 1930s</i>	
Type	Web app: <a href="https://esriurl.com/redlining">https://esriurl.com/redlining</a>
File format (10 words)	ArcGIS StoryMap
Operating system	Not applicable
License	Not applicable
Author(s)	David Asbury <sup>1</sup> , Ross Donihue <sup>1</sup> , Jeremy Hoffman <sup>2</sup> , Justin Madron <sup>3</sup> , Craig McCabe <sup>1</sup> , Emily Meriam <sup>1</sup> , Robert Nelson <sup>3</sup> , Dan Pisut <sup>1</sup> , Liz Todd <sup>1</sup> , Lara Winegar <sup>1</sup>

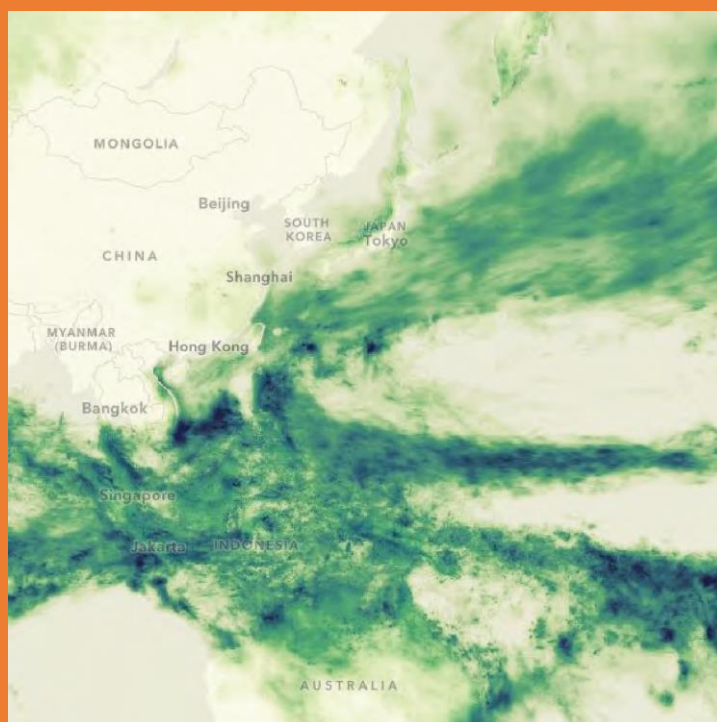
	( <sup>1</sup> Esri's Living Atlas and StoryMaps Team; <sup>2</sup> Science Museum of Virginia; <sup>3</sup> University of Richmond Digital Scholarship Lab)	
Published by	Esri	
Date of publication or most recent update	17 December 2020	
Scale	Not applicable	
Language(s) of the presentation	English	
Abstract/Description (in English or French; 100 words max)	The practice of Redlining by the Home Owners Loan Corporation (HOLC) was used to delineate and grade the relative desirability of U.S. neighborhoods in the 1930s. Even 80 years later, the social and environmental disparities between high-graded (A, B) and low-graded (C, D) neighborhoods, whose original assessments were largely driven by class- and race-based prejudice, remain stark. As a result of Redlining, there have been long-lasting impacts on the home values, city services, education, crime, and life expectancy of residents. This StoryMap examines the legacy of Redlining through a lens of four U.S. cities, investigating the correlation between HOLC grades and environmental factors, such as: urban heat islands, tree coverage, impervious surfaces, and topography. Combined with historical urbanization patterns, these policies have had a dramatic effect on the opportunities, health, and well-being of residents, and continue to demand greater scrutiny and discussion. Video: <a href="https://youtu.be/tq1ZrE7-5IQ">https://youtu.be/tq1ZrE7-5IQ</a>	



USE_DP3 Monthly Satellite Precipitation Estimates	
Type	Web app: <a href="https://bit.ly/39UEZRl">https://bit.ly/39UEZRl</a>
File format (10 words)	Time-enabled mosaic image service of monthly precipitation rasters
Operating system	ArcGIS Online
License	Subscriber
Author(s)	Emily Meriam



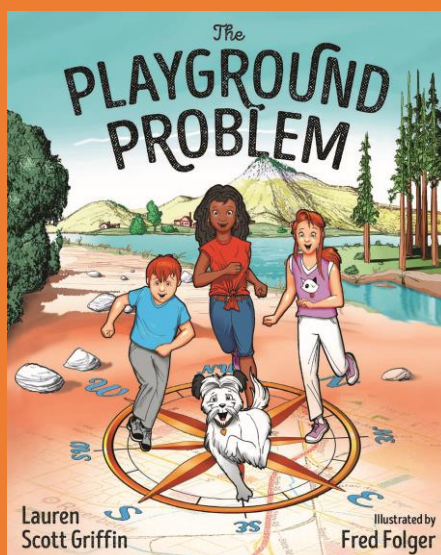
<b>Published by</b>	Esri
<b>Date of publication or most recent update</b>	28 April 2021
<b>Scale</b>	Global
<b>Language(s) of the presentation</b>	English
<b>Abstract/Description (in English or French; 100 words max)</b>	This Monthly Satellite Precipitation Estimates (IMERG) dataset is a time-enabled (June 2000-Present) image service of precipitation accumulation rasters sourced from IMERG which integrates information from NASA's Tropical Rainfall Measuring Mission (TRMM) and Global Precipitation Measurement (GPM) satellites. The layer's default symbology was styled by a cartographer in ArcGIS Pro using Raster Functions - Remap and Colormap. Nuance and subtly was carefully built in by combining cream-green-blue. As the user animates through time, the movement of water around the globe is a powerfully shown, while simultaneously the beauty and choreography of nature is displayed. Video: <a href="https://www.youtube.com/watch?v=M3SrFeEEtjA">https://www.youtube.com/watch?v=M3SrFeEEtjA</a>



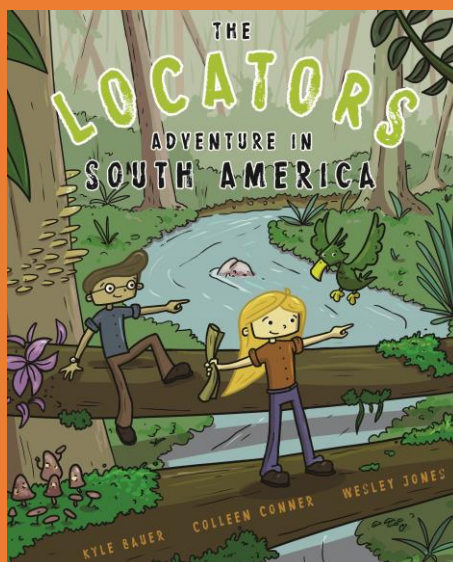
## EDUCATIONAL PRODUCTS

<b>USE_EP1</b>	<i>The Playground Problem</i>
<b>Author(s)</b>	Lauren Scott Griffin
<b>Type</b>	Paperback book
<b>Dimensions (mm)</b>	203.2 x 254

Published by	Esri Press
Date of publication	25 May 2021
Language(s) of the product	English
Abstract/Description (in English or French; 100 words max)	Using a colorful, easy-to-follow comic book story with fun in-book activities, <i>The Playground Problem</i> takes readers ages 6 through 10 on an adventure where they learn about spatial analysis by applying spatial thinking and spatial problem-solving skills. Written by Dr. Lauren Scott Griffin and illustrated by artist Fred Folger, this hybrid graphic narrative/activity book teaches young readers about mapping, data visualization, distance, compass directions, mathematical relationships, spatial analysis, spatial overlay, and spatial reasoning.



USE_EP2	<i>The Locators: Adventure in South America</i>
Author(s)	Kyle Bauer, Colleen Conner
Type	Paperback book
Dimensions (mm)	190.5mm x 234.95mm
Published by	Esri Press
Date of publication	6 July 2021
Language(s) of the product	English
Abstract/Description (in English or French; 100 words max)	<i>The Locators: Adventure in South America</i> is the story of two kids and a parrot finding and protecting several endangered animals in South America. Based on real-world scenarios, readers will find themselves solving problems by using maps based on actual location data within the graphic narrative. Using different maps, applying critical and spatial thinking, and following clues, readers can help the Locators on every step of the journey by completing the illustrated activity at the end of each chapter, fostering reading comprehension skills.



### USE\_EP3 *Thematic Mapping: 101 inspiring ways to visualize empirical data*

Author(s)	Kenneth Field
Type	eBook
Dimensions (mm)	Not applicable
Published by	Esri Press
Date of publication	31 August 2021
Language(s) of the product	English
Abstract/Description (in English or French; 100 words max)	Thematic maps all too easily display different truths. Using 101 maps, graphs, charts, and plots of the 2016 United States presidential election data, this book explores the rich diversity of thematic mapping and the visual representation of data. It details well-known techniques and shows how to design effective maps and graphics. It also explores innovative and fascinating alternative ways of making maps of empirical data to excite and inspire. Each example illustrates a different approach to visualising the same data, and all lead to different maps and different ways of seeing different shades of truth.



## THEMATIC MAPPING

101 inspiring ways to visualise empirical data



Kenneth Field

## OTHER CARTOGRAPHIC PRODUCTS

### USE\_OC1

#### *Screwed: 2020 Presidential election*

Author(s)	Kenneth Field
Type	Materials: Wood, brass screws, enamel paint
Dimensions (mm)	1:7,000,000 (main map)
Published by	Kenneth Field
Date of publication	20 January 2021
Language(s) of the product	English
Abstract/Description (in English or French; 100 words max)	A bas-relief of the 2020 presidential election results using butcher block as the base, inlaid states painted by winning party, with screws driven into the surface. Screw gauge (diameter) and height indicate turnout, and the screw heads are painted in a range of dark to light reds or blues to indicate share of vote. To finish the map, an epoxy resin filled vignette for the coastline and lakes was added, a title plinth with a play on words, and several layers of varnish finished the work off. It's a physical, multivariate 3D map of the 2020 presidential election results.

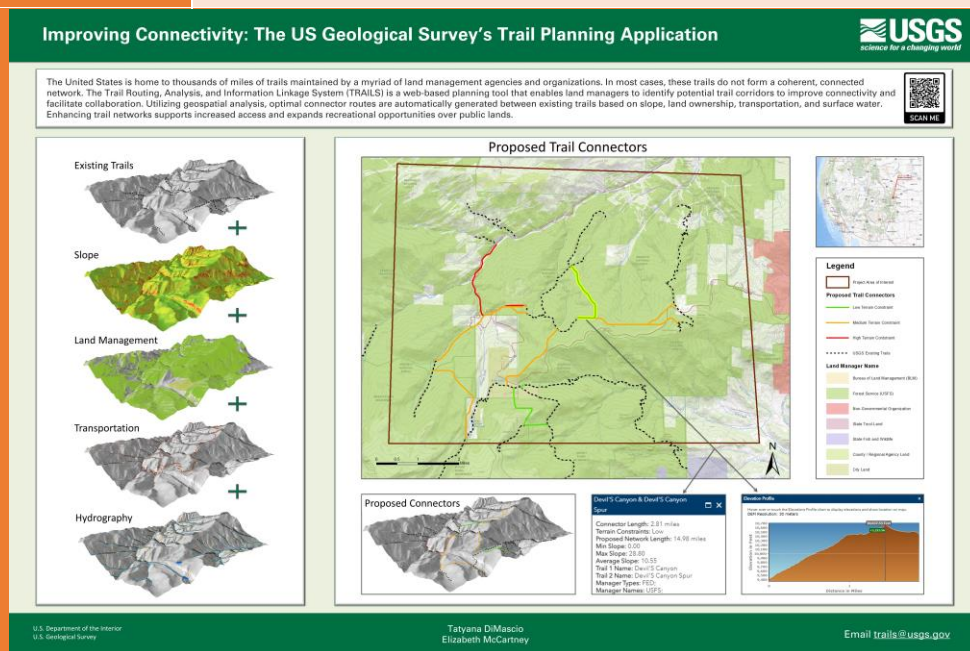






## USU\_MP2 Improving Trail Connectivity: The US Geological Survey's Trail Planning Tool

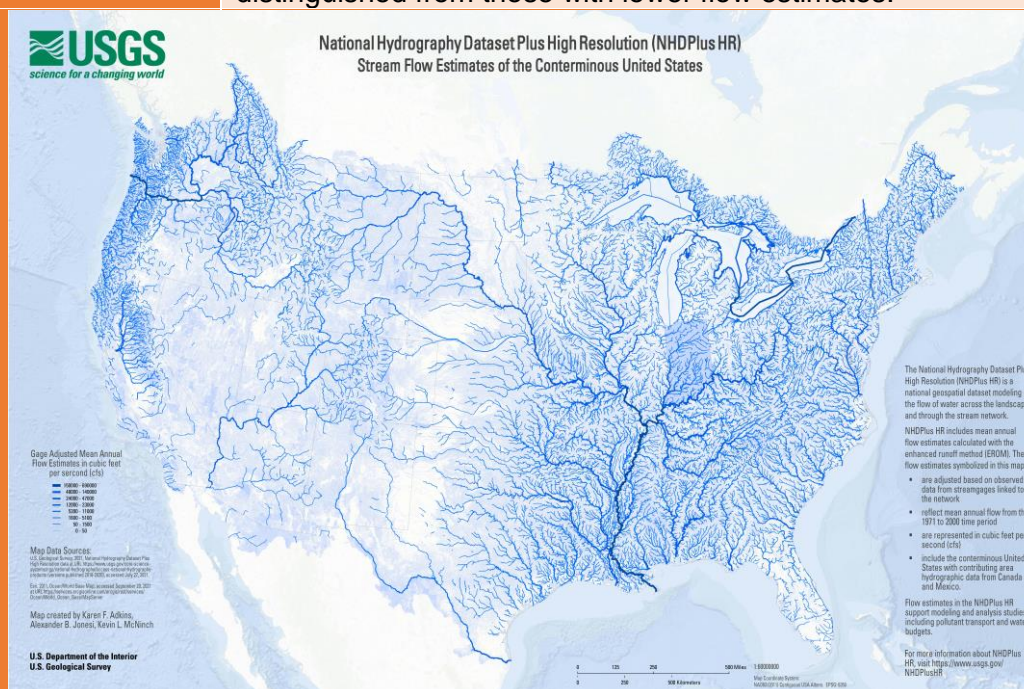
Type of material	Paper
Scale (if relevant)	N/A
Dimensions (mm)	889mm x 610mm
Author(s)	Tatyana DiMascio and Elizabeth McCartney
Published by	United States Geological Survey
Date of publication	December 2021
Language(s) of the legend	English
Abstract/Description (in English or French; 100 words max)	The United States is home to thousands of miles of trails maintained by a myriad of land management agencies and organizations. In most cases, these trails do not form a coherent, connected network. The Trail Routing, Analysis, and Information Linkage System (TRAILS) is a web-based, advance planning tool that enables land managers to identify potential trail corridors to improve connectivity and facilitate collaboration. Utilizing geospatial analysis, optimal connector routes are automatically generated between existing trails based on slope, land ownership, transportation, and surface water. Enhancing trail networks supports increased access and expands recreational opportunities over public lands.



## USU\_MP3 NHDPlus High Resolution (NHDPlus HR) Stream Flow Estimates of the Conterminous United States

Type of material Paper

<b>Scale (if relevant)</b>	1:6,000,000	
<b>Dimensions (mm)</b>	914 mm x 610 mm (landscape)	
<b>Author(s)</b>	Karen F. Adkins, Kevin McNinch, Alexander Jonesi	
<b>Published by</b>	US Geological Survey	
<b>Date of publication</b>	December 2021	
<b>Language(s) of the legend</b>	English	
<b>Abstract/Description (in English or French; 100 words max)</b>	The National Hydrography Dataset Plus High Resolution (NHDPlus HR) is a national geospatial dataset modeling the flow of water across the landscape and through the stream network. NHDPlus HR includes mean annual stream flow estimates calculated using the enhanced runoff method (EROM) and observed flow from reference gages. This map portrays NHDPlus HR stream flow estimates for the conterminous United States from 1971 to 2000 in cubic feet per second (cfs). Features and areas of the United States with higher flow estimates are clearly distinguished from those with lower flow estimates.	

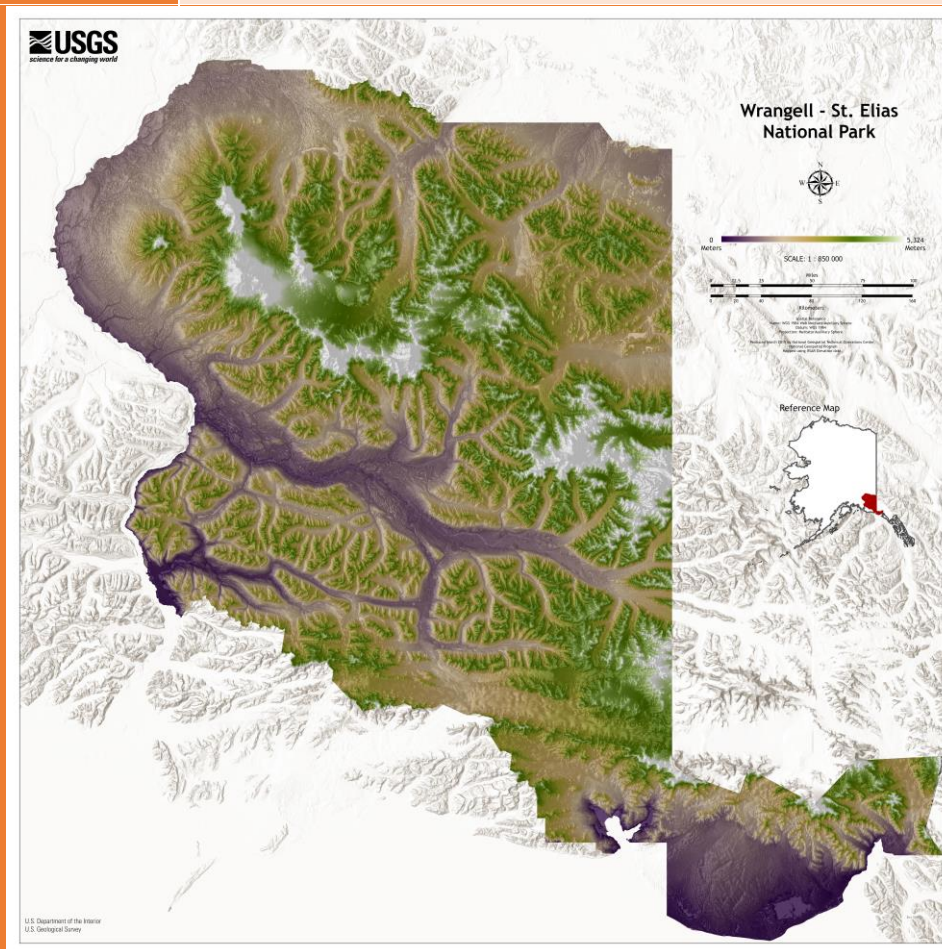


USU_MP4	Map of Wrangell - St Elias National Park
Type of material	Paper
Scale (if relevant)	1 : 850 000
Dimensions (mm)	889 mm x 889 mm
Author(s)	Chris Richmond, Bill Marken, Phil Rufe, & Amanda Lowe
Published by	United States Geological Survey
Date of publication	March 2020
Language(s) of the legend	English



**Abstract/Description**  
(in English or French;  
100 words max)

Map depicting Wrangell – St Elias National Park highlighting the quality of newly gathered Interferometric Synthetic Aperture Radar (IFSAR) elevation data overlayed by 10-meter resolution satellite imagery. IFSAR can produce clear, sharp image maps of haze and cloud-covered areas. The radar signal strikes the terrain at an oblique angle which accentuates landscape details. Topographic features, such as subtle faults and folds, may be more clearly seen on radar imagery than on conventional aerial photographs or satellite images. The IFSAR data used in this map was acquired to meet a resolution of 5 meters or less.



**USU\_MP5** *The Arctic Research & Policy Act Region (ARPA): Alaskan Mainland - Map*

Type of material	Paper
Scale (if relevant)	Multiple
Dimensions (mm)	711.2 mm x 558.8 mm
Author(s)	Chris Richmond, Bill Marken, Phil Rufe & Dee Williams
Published by	United States Geological Survey
Date of publication	08/2021



Language(s) of the  
legend

English

Abstract/Description  
(in English or French;  
100 words max)

This map details the ARPA boundary as it relates to terrestrial features of Arctic Alaska lying north and west of the Yukon and Kuskokwim Rivers. It conveys key components of Arctic geospatial information including detailed city/village location and relative population size; land cover classification; tree-line extent in juxtaposition to the ARPA boundary and Arctic Circle; delineation of conservation areas & National Petroleum Reserve-Alaska. The lower right corner contains an inset of the full ARPA boundary through the circumpolar Arctic to display: the locations and relative population size of major Arctic cities; the maritime limits of Arctic nations' exclusive economic zones.



## USU\_MP6 California Congressional District 08 Federal & Tribal Lands

Type of material	Paper
Scale (if relevant)	1 : 900 000
Dimensions (mm)	711.2 mm x 914.4 mm
Author(s)	Chris Richmond, Phil Rufe, Bill Marken
Published by	United States Geological Survey (USGS)
Date of publication	05/2021
Language(s) of the legend	English

**Abstract/Description  
(in English or French;  
100 words max)**

Map detailing California's 8th Congressional District using USGS Congressional District map templates along with authoritative sources for federal and tribal Lands. Sources include an official national inventory of U.S. terrestrial and marine protected areas that are dedicated to the preservation of biological diversity and to other natural, recreation and cultural uses. This inventory includes the best available aggregation of federal land and marine areas provided directly by managing agencies, coordinated through the Federal Geographic Data Committee Federal Lands Working Group.

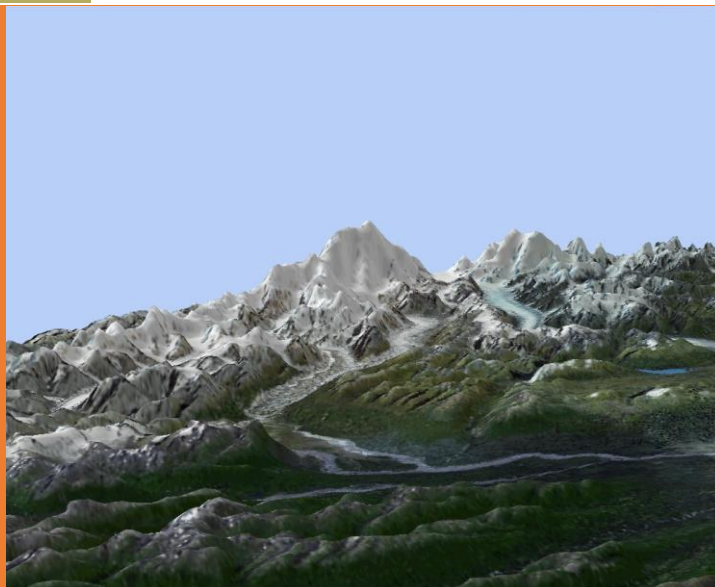
*Preview not Available*

## DIGITAL PRODUCTS

### USU\_DP1

#### *Denali Animated Fly-through*

Type	Media
File format (10 words)	Audio Video Interleave (.avi)
Operating system	Windows
License	ArcScene 10.7.1
Author(s)	Chris Richmond
Published by	United States Geological Survey (USGS)
Date of publication or most recent update	March 2, 2020
Scale	N/A
Language(s) of the presentation	English
Abstract/Description (in English or French; 100 words max)	A fly through created to highlight the quality of newly gathered Interferometric Synthetic Aperture Radar (IFSAR) elevation data overlayed by 10-meter resolution SPOT imagery. IFSAR is an effective technology for preparing clear, sharp image maps of haze and cloud-covered areas. The radar signal strikes the terrain at an oblique angle which accentuates landscape details. Topographic features, such as subtle faults and folds, may be more clearly seen on radar imagery than on conventional aerial photographs or satellite images. IFSAR data used in this video were contracted through two vendors to meet a resolution of 5 meters or less.





# Additional Products (out of the competition)

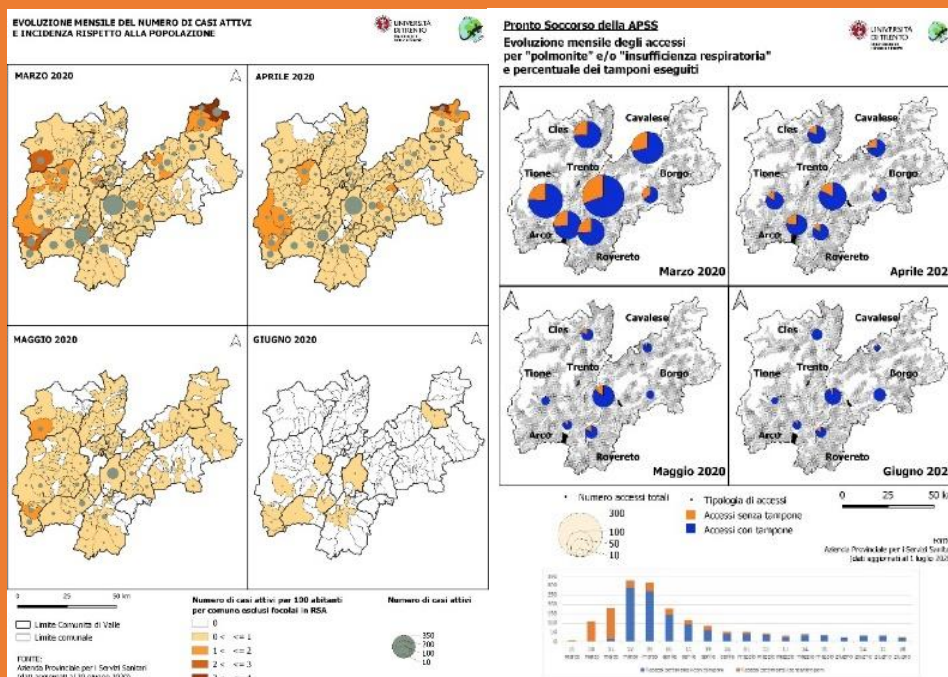
## MAPS ON PANELS

### ITA.a Covid-19 in the Province of Trento

Type of material	Paper
Scale (if relevant)	1:1.000.000
Dimensions (mm)	420 x 297 mm x 2
Author(s)	Tiziano Brunialti, Nicola Gabellieri, GeCo
Published by	Associazione Italiana di Cartografia; Centro Geo-cartografico di studio e documentazione (GeCo) dell'Università di Trento
Date published	2020
Language(s) of the legend	Italian

**Abstract/Description (in English or French; 100 words max)**

The map on the left shows the representation of accesses for pneumonia in the Emergency Rooms of the Province of Trento: the location of each health unit is expressed with a pie chart that shows swabs performed and absolute number of accesses. A histogram shows the temporal trend of the number of accesses. The map on the right shows the pandemic trends at the municipal level in March-June 2020. The polygons of the municipalities show the percentage of active cases on the total population; the size of the centroid of the polygon indicates the absolute number of active cases.

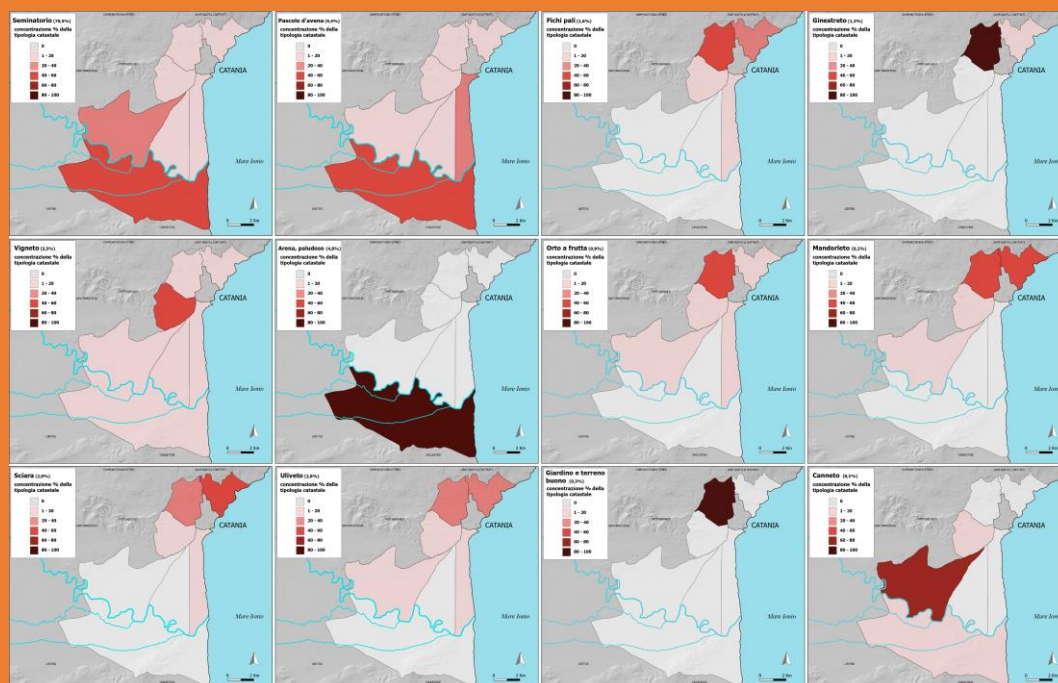


## ITA.b Representing Territory. Mid-Nineteenth-Century Land Use and Crop Types in Sicily: A Digital Geohistorical Approach to the Descriptive Cadastral Source

Type of material	Paper
Scale (if relevant)	-
Dimensions (mm)	240 x 150 mm x 2
Author(s)	Giannantonio Scaglione
Published by	Centro Geo-cartografico di studio e documentazione (GeCo) dell'Università di Trento - Associazione Italiana di Cartografia
Date published	2020
Language(s) of the legend	Italian

### Abstract/Description (in English or French; 100 words max)

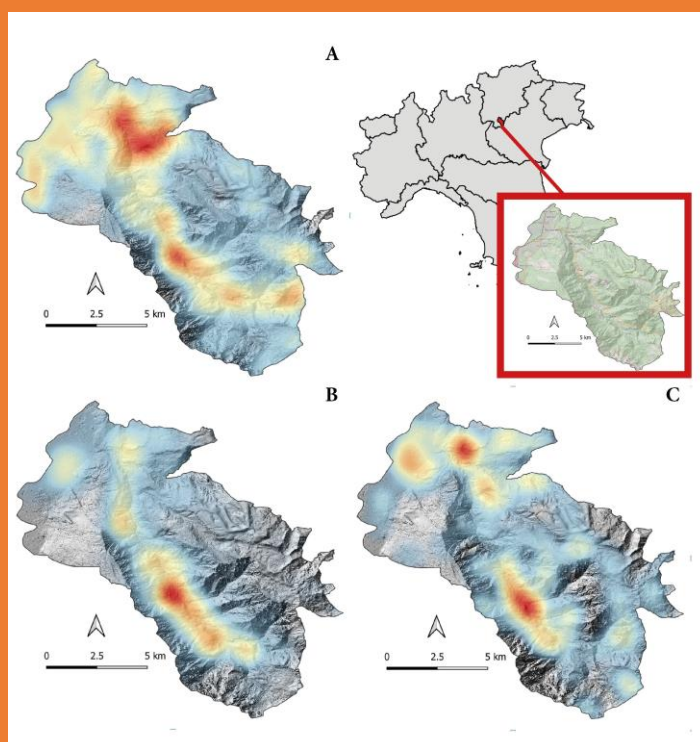
The georeferenced digital theme-based maps represent the different land use and crop types in rural Sicily. They have been drawn based on the registers of the 1838 Land Registry, using descriptive data that refer to non-urban areas retrieved from the Contribuzione Fondiaria del Comune di Catania (Land Contribution of the Municipality of Catania, Sicily) of 1843. The latter is a useful source that was produced for financial purposes, to recreate the features of the rural space of the municipality of Catania.



## ITA.c Heat map of places names distribution in historical maps (A: 2007; B: 1853-61; C:1901-05). The case study of Rovereto-Valli del Leno (Province of Trento, Italy)

Type of material	Paper
Scale (if relevant)	1:200.000

Dimensions (mm)	21 x 22 cm
Author(s)	Nicola Gabellieri
Published by	ASITA; Centro Geo-cartografico di studio e documentazione (GeCo)
Date published	2019
Language(s) of the legend	none
Abstract/Description (in English or French; 100 words max)	The map is part of a broader research aiming at analyzing and safeguarding of historical place names of the Provincia di Trento registered in the historical maps. Different sources (A: <i>Carta tecnica provinciale</i> , 2007; B: Hapsburg Cadaster, 1853-61; C: <i>Karte der Grafschaft Tirol</i> [...], 1801-05) have been digitised and georeferenced using a GIS software, and place names have been vectorised as point vector and transcribed in a geodatabase. The map shows place names distribution for each sources using the “heat map” function. Epistemologically, place names distribution could be used with other sources to assess changes in practiced and dwelled spaces during time.

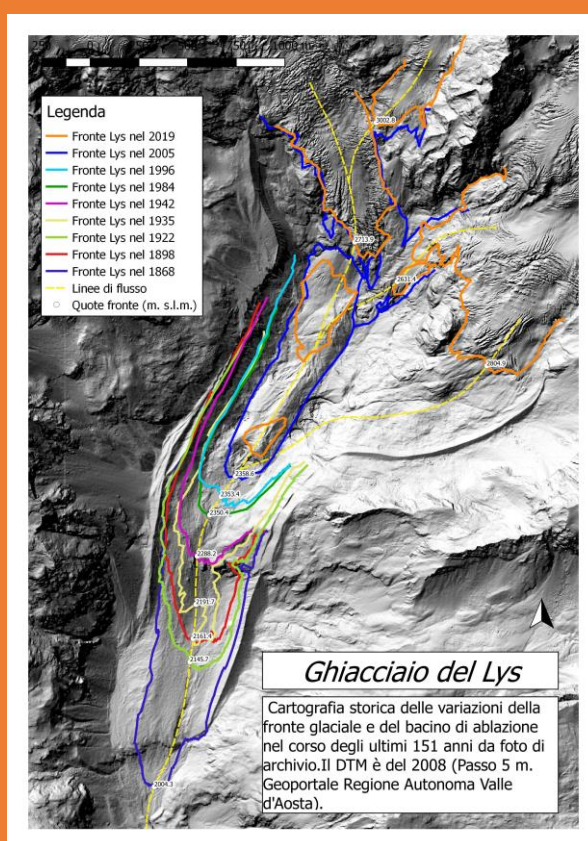


#### ITA.d Lys Glacier. Dyachronic cartography of the terminus variations

Type of material	Paper
Scale (if relevant)	1:25000
Dimensions (mm)	420 x 297 mm
Author(s)	Andrea Marco Raffaele Pranzo



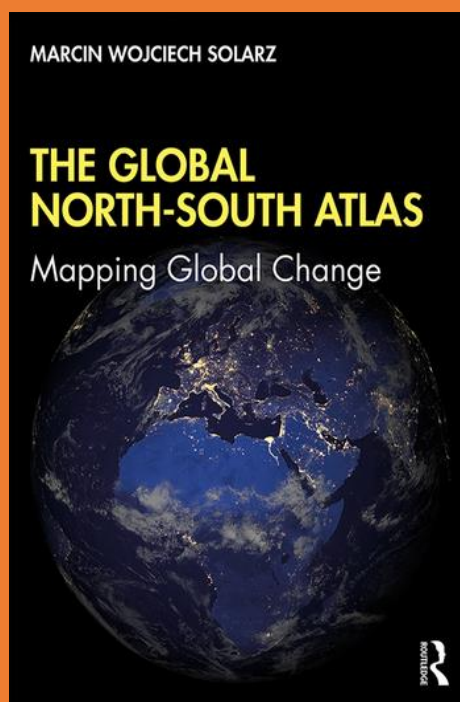
Published by	Associazione Forte di Bard	
Date published	2020	
Language(s) of the legend	Italian	
Abstract/Description (in English or French; 100 words max)	<p>The map accounts for the trends of the Lys glacier terminus (Monte Rosa Massif, NW Italy) along the last century and a half. The background is represented by the DTM of the valley, obtained from the Valle d'Aosta Regional Cartographic Portal. The colored lines are produced by employing an indirect monophotogrammetric technique that uses old and recent digitalized photos processed in QGIS through the "WSL Monoplotting Tool", a device created by the Swiss Federal Institute for Forest, Snow and Landscape Research. These lines follow the lower extent of the ice in each year. The numbers on the map refer to the calculated a.s.l. altitude of the glacier terminus.</p>	



## ATLASES

POL.a	<i>The Global North-South Atlas. Mapping Global Change.</i>	
Type of material	atlas	

Number of pages	180
Dimensions (mm)	250 x175 mm
Author(s)	Marcin Wojciech Solarz
Published by	Routledge
Date of publication	November 5, 2019
Language(s) of the text	English
Abstract/Description (in English or French; 100 words max)	This atlas deconstructs the North–South divide which was established by the 1980 Brandt Line, and advocates the need to redraw the global map to be fit for the 21st century. A range of colorful maps and charts demonstrate the ways in which the world has changed over the last 2,000 years. The atlas analyzes the genesis and characteristics of the Brandt Line, before going on to discuss its validity through the centuries, and demonstrating the many philosophies of development that exist or may exist. The book concludes by proposing new schemes of categorization between developed and developing countries.



## OTHER CARTOGRAPHIC PRODUCTS

JPN.a	<i>Washi Tape 5 types</i>
Author(s)	Tokyo Cartographic Co., Ltd.
Type	paper
Dimensions (mm)	15mm × 7m

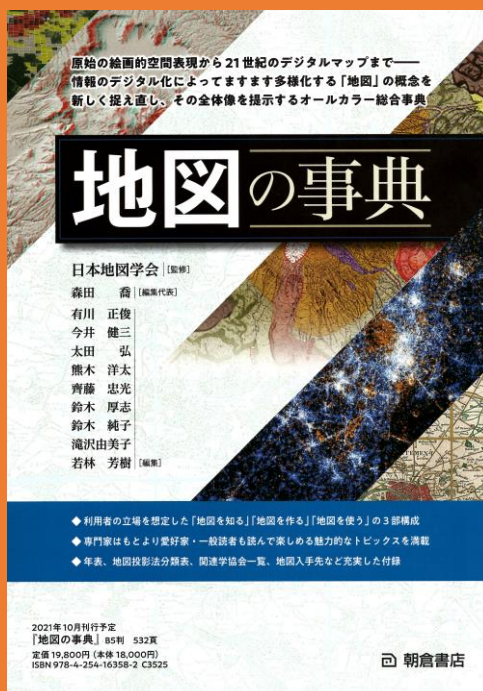
<b>Published by</b>	Tokyo Cartographic Co., Ltd.
<b>Date of publication</b>	April 2020
<b>Language(s) of the product</b>	Japanese
<b>Abstract/Description (in English or French; 100 words max)</b>	Washi Tape with 3 types of national flag patterns and 2 types of map symbol patterns. The national flag Washi Tape is printed with the national flags of 16 countries in each region of Asia, Europe, and the Americas. The Washi Tape printed with the map symbols used in Japan contains 30 map symbols including the "Natural Disaster Monument" enacted in 2019. Simple and easy to use, it's perfect for travel notes, albums, letters and wrapping.



<b>JPN.b</b>	<b>Encyclopedia of Maps</b>
<b>Author(s)</b>	Takashi MORITA (Chief) Masatoshi ARIKAWA, Kenzou IMAI, Hiroshi OTA, Yota KUMAKI, Tadamitsu SAITO, Atsushi SUZUKI, Junko SUZUKI, Yumiko TAKIZAWA, Yoshiki WAKABAYASHI
<b>Type</b>	Book, 510pages
<b>Dimensions (mm)</b>	W182mm, H254mm, D34mm
<b>Published by</b>	Asakura Shoten, Tokyo
<b>Date of publication</b>	1st November 2021
<b>Language(s) of the product</b>	Japanese
<b>Abstract/Description (in English or French; 100 words max)</b>	200 items are arranged in 3 categories and 15 chapters. A: Knowing maps (73 items) 1. What is a map, 2. History of maps, 3. Maps and society, 4. Types of maps, 5. Challenges of mapping B: Making maps (69 items) 1. Principles of map making, 2. Types of map making, 3. Map drawing / design, 4. Map production / duplication, 5. Maps of network environment



C: Using maps (58 items) 1. Basics of map use, 2. Use of maps by purpose, 3. Acquisition of maps, 4. Collection and utilization of maps, 5. Maps and education / research.



# Final remarks

The International Cartographic Exhibition (ICE) in Florence has been organized as a part of the 30<sup>th</sup> International Cartographic Conference (ICC). All exhibits were physically displayed at the Italian Geographic Military Institute – via Cesare Battisti 10, Florence, Italy – from 13<sup>th</sup> to 17<sup>th</sup> December 2021, but also virtually at [www.geografia-applicata.it](http://www.geografia-applicata.it).

As in its previous editions, the Exhibition was structured according to seven categories: Maps on Panels (MP), Charts on Panels (CP), Atlases (AT), Digital Products (DP), Digital Services (DS), Educational Cartographic Products (EP), Other Cartographic Products (OC).

In addition, this year the Local Organizing Committee (LOC) decided to welcome additional cartographic materials in an Out-of-Competition section (Additional Products), with the aim of granting visibility to as many cartographic products as possible, even if exceeding the set number of entries officially being accepted from each ICA member, without compromising the fairness of the contest.

As in its previous editions, the Exhibition was able to attract great interest among professional cartographers, professors, experts and researchers, and it fostered a widespread participation within the world of cartography. Travel bans, customs issues, quarantine periods and other Visa delays, all related to the ongoing pandemic, threatened the outcome of everyone's efforts down to the last minute; nonetheless, the global results were undoubtedly outstanding. Notwithstanding the numberless logistic criticalities stemming from the temporal coincidence of the Exhibition with a new peak of the COVID-19 pandemic still occurring in many countries, the event was, in fact, able to convey a total amount of 410 products, coming from 26 different countries all over the world. Overall, the 32 participants (National Members and Affiliate Members) were able to propose the following materials:

240 maps on panels

31 charts

42 digital products

16 digital services

33 atlases

22 educational products

26 other cartographic products.

A total amount of 180 panels were employed to display the 271 hang-up cartographic products, with a total linear extent of 180 metres. 92 out of the 271 products exceeded the maximum width extent communicated through the guidelines, and 2 of them exceeded the maximum height extent. A total amount of 81 printed products were exhibited on tables and shelves for a total linear extent of 20 metres. 6 workstations were prepared to show 58 cartographic digital products and services.

With the purpose of offering the possibility of viewing the Exhibition also to those who will participate in the conference remotely, the Exhibition was accompanied, for the first time, by a parallel online virtual Exhibition. All this was possible thanks to the cooperation between the GeCo - University of Trento and the LabGeo - University of Florence, that took care, respectively, of the systematic acquisition and collection of all the cartographic products and of the design and implementation of the dedicated website where the virtual Exhibition was hosted. Through this method, a “general public vote” was allowed together with the traditional vote from the Jury to animate the cartographic competition.

The proposed items ranged from political maps to physical maps representing every corner of the Earth, and even the surface of other celestial bodies; from the strictest technical standard specimens of official cartography to the most evocative reinterpretations of classical cartography; from the finest depictions of natural environments and geological and lithological substrates, to the most vivid and crowded urban and metropolitan networks. Geomorphology, Economics, Politics, Boundaries, Cities, Forests, Nature, Sustainability, History, Archaeology, Vulcanology, Urbanistics, Glaciology, Animals, Transports, and all the other infinite elements that can be geographically set and analysed were at the core of the visual investigations that the participants offered to the visitors through the valuable outputs of their limitless effort.

The abundant cartographic production presented by the 32 participants to this year’s Exhibition was visited and appreciated by a large number of ICC participants, who purposefully joined the event despite the obstacles related to logistics and to the global health emergency. This, once again testifies the role of cartography as an instrument that is always able to harness the efforts and the keenness of many professionals and scholars, catalysing them towards the common purpose to improve, disseminate and celebrate the art and science of map production.

Andrea Cantile and Elena Dai Prà