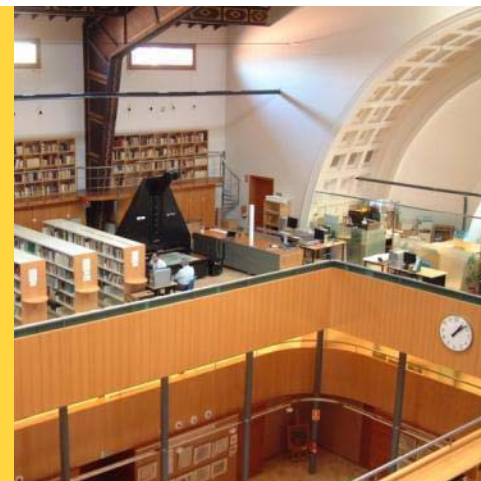




Projecte Georeferencer a la Cartoteca de Catalunya

R.Roset



ÍNDEX

- Què és
- Exemples d'ús
- El Georeferencer a la Cartoteca Digital

Noves eines per a les cartoteques

El contingut geogràfic de les publicacions s'està potenciant i aprofitant per facilitar la descoberta dels materials de les biblioteques, museus i arxius.

L'empresa Klokan Technologies ha desenvolupat els productes

- Georeferencer: georeferenciació online de mapes digitalitzats
- Geoparser: assignació visual d'àrees geogràfiques als documents
- Maprank: indexació i accés a col·leccions de mapes per càlcul de rellevància
- MapTiler: generador de tesselles de mapes georeferenciats per explotació en entorn web

www.klokantech.com




Georeferencer v1

Primer versió del lloc web de georeferenciació desenvolupat l'any 2008 per l'enginyer txec Petr Pridal.

El 2010 crea l'empresa Klokan Technologies que aviat agafa un relleu internacional.

[Log in or register](#)



Georeferencer (early beta version)

Online Georeferencing Tool For Scanned Maps
<http://www.oidmapsonline.org/>

feedback Explore online images of scanned maps in 3D and compare them with modern maps!

While surfing the web, if you find an interesting old map you'd like to georeference and bookmark, simply click the Georeferencer browser button in your bookmarks.

[Georeferencer](#)

TIP: To add such button into your browser: Click on the upper "Georeferencer" link with the right mouse button and select "Add to Favorites" or "Bookmark This Link" from the context menu. In some browsers, you need to drag the link to the Bookmarks Bar.


You can also submit address of a website with a map or address of an image:

[Georeference](#)

TIP: You can copy&paste an URL of an image or a website you would like to georeference. A path to Zoomify presentation (ending with ImageProperties.xml) is supported as well.

*TIP: You can try to georeference one of the [images of early maps on the web](#).
 Maps collections: [David Rumsey](#), [Afriterræ](#), [Ryhiner](#), [MZK](#), [VKOL](#), [UJEP GeoLab](#)...*

Try the Georeferencer online tools on a map from the Moravian Library:




[Commenius, J.A.: Moravia Nova et post omnes priores accuratissima delineatio. Amsterdam: Nicolaus Vischer, \[1680-1713\]](#)
[Moravian Library in Brno, Czech Republic \(Moll map collection, sign. Moll-0090.900_AA.TXXII_Supl.3\)](#)

Developed by [Klokan Petr Pridal](#) and [Moravian Library Brno](#) (R&D project [OldMapsOnline.org](#)).

What is Georeferencer? Share More info

Georeferencer: Online Georeferencing Tool

Click on icons on every georeferenced picture on both maps.



0:00 / 4:51

YouTube

Georeferencer

- Georeferencer és un programari com un servei (SaaS, software as a service) creat per Klokantech
- Està basat en desenvolupaments fets per la pròpia empresa i en eines de codi obert
- Es recolza en la part geodocumental de Fusion Tables de Google
- S'emmagatzema en el núvol d'Amazon
- S'executa en qualsevol navegador web modern
- <http://www.klokantech.com/georeferencer/>

Projectes arreu

National Library
of Scotland

National Archief
(PPBB)

British Library

National Library of Scotland

nls National Library of Scotland
Map Georeferencer home page
 Online map georeferencing pilot programme

[Help](#) | [Log in or register](#)

[Georeferenced maps and applications home](#) > [Georeferencer home](#)

[Applications](#) | [Overlays](#) | [Georeferencer](#) | [API](#) | [Visualising Urban Geographies](#) | [Maps of Scotland home](#)

The Georeferencer application is a collaborative online project, where anyone with access to Internet can help with georeferencing of various historical maps from our collection. [Why georeference maps?](#) | [About georeferencer](#)

Please help the National Library of Scotland to georeference our scanned historical maps.

Select a map you would like to georeference from the groups below:

- [Maps of Scotland, 1560-1928](#)
- [County Maps of Scotland, 1580-1928](#)
 - [Blaeu Atlas of Scotland, 1554](#)
 - [Manuscript maps by John Adair, 1680s](#)
 - [Herman Moll's County Maps of Scotland, 1745](#)
 - [John Thomson's Atlas of Scotland, 1832](#)
- [Town Plans / Views, 1580-1919](#)
 - [Great Reform Act Plans, 1832](#)
- [Coasts of Scotland on marine charts, 1580-1850](#)
 - [Admiralty Charts of Scotland, 1795-1904](#)
- [Sutherland estate mapping, 1770s](#)

Further information

Georeferencer is easy and fun - all that you need to do is choose a map you would like to georeference, and then log into our online system (registration is an easy process, and free). Details about the georeferencing process itself are described in the [Step-by-step guide to georeferencing](#).

All maps georeferenced by you and other volunteers can be immediately viewed as an overlay in [Google Earth](#) and the [Google Earth browser plug-in](#) directly in your web browser. There are also several other good reasons [why to georeference maps](#).

Right now you can:

- compare historic maps directly with present day satellite images and dynamically change the transparency
- share, use and georeference the maps in more detail
- view the maps alongside other georeferenced historical maps of the same area
- help improve search methods to find maps in future (with an intuitive system such as the [MapRank Search](#))

The Georeferencer application will improve over the coming months in line with the development of the wider [Georeferencer project](#) (read more [about the project](#)), and as other libraries add their online map images.

[More web mapping projects](#) | [Historical map overlays](#) | [NLS Maps homepage](#)

Developed by [Klokant Technologies GmbH](#) and [Moravian Library Rm](#) (project [OldMapsOnline.org](#))

nls National Library of Scotland
Map Georeferencer
 Why georeference historical maps?

[Help](#) | [Log in or register](#)

[Georeferenced maps and applications home](#) > [georeferencer home](#) > [why georeference?](#)

[Applications](#) | [Overlays](#) | [Georeferencer](#) | [API](#) | [Maps of Scotland home](#)

Why georeference historical maps?

Georeferencing early maps is becoming steadily easier and cheaper, and provides several new ways of using and understanding maps. By Georeferencing maps, you can visualise and compare maps in new ways, improve retrieval and indexing methods, further their use, and develop different means of understanding and interpreting them.

The [Georeferencer](#) application offers a new, easy and enjoyable way to georeference historical maps, so that they can be displayed as an overlay in [Google Earth](#) and the [Google Earth browser plug-in](#).

The [Wikipedia definition of Georeferencing](#) summarises the main purposes of georeferencing and the methods involved. C. Balletti's [Georeference in the analysis of the geometric content of early maps](#) is also a helpful introduction.

There are several advantages of georeferencing historical maps:

- Georeferencing allows you to **compare maps directly with other georeferenced maps**. You can compare historical maps to present-day maps of the same location, or compare them to other historical maps at different points in time. The [Visualising Urban Geographies](#) project illustrates this for [Maps of Edinburgh](#).
- Through georeferencing, **early maps can be delivered through better or more familiar interfaces**. Georeferenced maps can be easily integrated with [Google Maps](#) and [Google Earth](#) or related modern mapping applications. This takes advantage of the growing familiarity with these search tools and their user interfaces. It is also possible to allow historical maps to be delivered into other websites through using open standards, such as the [OGC Web Map Service \(WMS\)](#) protocol. Also, through the digital mosaicking and joining of individual map sheets, georeferencing allows the delivery of seamed versions of separate paper maps in an easier format to use.
- Georeferencing allows new ways of **integrating early maps with other spatial information**. The [Tracks in Time Leeds Title Map project](#) uses the georeferencing of 18th maps to examine social and economic information from 19th schedules. The [Russian 19th century maps of Riga](#) models historical urban spaces by georeferencing historical maps and overlaying them with height information. The [AddressingHistory](#) project illustrates the potential of linking together georeferenced street directories and maps for Edinburgh.
- Georeferencing can lead towards a **better means of accessing early maps**, through improved search and retrieval. For example, once georeferenced, numerical [geospatial metadata](#) can allow better searching of historical maps, as well as their greater visibility to global geographic search and retrieval services.
- Georeferencing can allow **new ways of understanding the content of early maps**. Once georeferenced, map geometry can be analysed (for example using the [MapAnalyst](#) program for examining planimetric accuracy). John Hessler's [Warping History Map](#) provides detailed examples of how cartometric analysis can be usefully applied to further the understanding of historical maps.

Why be cautious about georeferencing historical maps?

There are some important methodological and practical reservations about the value of georeferencing historical maps.

1. Georeferencing **misrepresents and distorts** maps by explicitly transforming or warping them. These historical maps were not intended to be changed and viewed in this way. As such, it can misuse or misinterpret historic maps, visualising them in ways that their makers and users would probably never have intended, and lead to false ideas and assumptions about the maps themselves. Georeferencing does not necessarily improve a historical map or make it more accurate. In the course of transforming the original map, georeferencing changes lines and shapes, the distances between objects, the map's aesthetics and its value as a cultural object.
2. The georeferencing process **overemphasises geometric accuracy or inaccuracy** of historic maps and therefore downplays all other aspects of their content - their symbolism, placements, the way they represent features, their purpose and usage, ideology, political and cultural role and bias, and other meanings. Taken on its own, georeferencing can therefore reinforce a positivist, modern and simplistic concept that the history of mapping is simply a history of improvements in accuracy over time, ending up with present day maps that are best of all, as well as the misconception that more accurate maps are 'better' maps. Both of these ideas have rightly been discredited.

Some of these issues were usefully discussed on [Maplist](#) in March 2009. Whilst they are important reservations, georeferencing arguably still has a role for particular maps in particular circumstances, provided these reservations are borne in mind. What may be useful and appropriate for certain 19th or 20th century maps may not be useful or appropriate for 16th or 17th century maps. The [AHDS Guide to Using GIS in Historical Research](#) has good further information about using georeferenced maps and other information in historical applications. The [Maps of Scotland website](#) shows all maps first and foremost in their authentic, original state as ungeoreferenced images. The [Georeferencer](#) application allows ways of creating and viewing georeferenced versions as an added extra, only for those who wish to explore this technique and visualise the maps in this different way.

This is only a brief look at this topic and we would be interested to hear your views. Please e-mail geo@nls.uk to provide general comments/feedback.


[NLS Georeferencer home](#) | [Historical map overlays](#) | [NLS Maps homepage](#)

Nationaal archief


nationaalarchief inloggen
 PROVINCIAAL HISTORISCH CENTRUM

Georeferencer: Nationaal Archief Pilot
 Intro project georefereren Holland kaarten

Nog te georefereren
 Help ons met het georefereren van deze kaart. Klik op een kaart en volg de instructies:



Gegeoreferende kaarten getoond in Google Eath
 Deze kaarten zijn al gegeoreferend, bekijk ze hier in Google Earth:




Developed by [Klokian Technologies GmbH](#) and [Museum Library Bmg](#) (project [OldMapsOnline.org](#))

Klokian Technologies

Nationaal Archief: Georeferencer Pilot

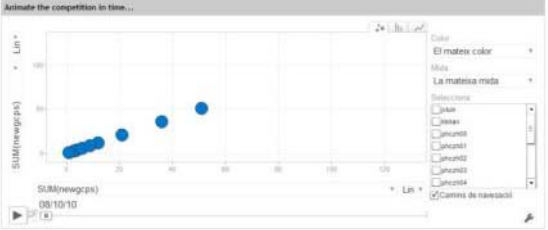
The main projects website: <http://nationaalarchief.georeferencer.com/>
 Open the Map finder in Google Earth:
[Download KMZ](#)

The map finder - click on a dot...

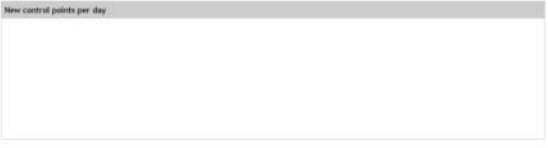


TIP: Turn on "Color: unique colors" and "Size: SUM...", Select on the X-axis "Time" and also activate the checkbox next to the people - to see their name labels. Turn off "Itals" and press Play to see the animation of competition of volunteers. The displayed numbers are sum of all new control points created during one day by one user.

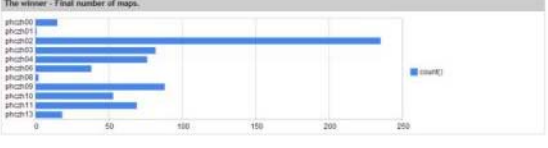
Animate the competition in time...



New control points per day



The winner - Total number of maps.



Donde la sessió | [Indicador impacte del lloc](#) | [Informe d'un al·loc](#) | [Impressora de pàgina](#) | [Dinosaire d'ajuda](#) | [www.klokian.com](#) | [Google Sites](#)

British Library

Una àmplia base d'usuaris els va permetre tenir
llestos 700 mapes en 5 dies.

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UK > Online Gallery Home > Georeferencing

Georeference home Maps already georeferenced About

Maps already georeferenced
Zoom in and click on the red buttons to see maps already georeferenced.

Map finder

Mapa Satèl·lit

For questions about the project or help, contact georeference@bl.uk.

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UK > Online Gallery Home > Georeferencing

Georeference home Maps already georeferenced About

Placing historic maps
The first pilot to "place" a selection of our historic mapping is complete. In only one week, 100% of the scanned maps - a sample of 17th, 18th and early 19th century maps of England, Wales, and London - were fully georeferenced. The results of the pilot may be viewed and improved on this website, where more content will be added.

Thanks to Maurice Nicholson of Bedford, who completed the most maps. His love of maps from a young age, and involvement with local history groups and publishing, no doubt contributed to his active engagement in this effort. The British Library is grateful to all those that participated; their work will expand access to these maps, making them more visible and discoverable online. All of the correctly georeferenced maps will appear in the JISC-funded Old Maps Online portal, to be launched 25 February 2012. This would not have been possible if the public response had not been so generous and immediate. Another 1,000 maps will be added to this website, and we hope to receive the same positive response. If you wish to be notified when they are available, contact georeference@bl.uk.

Let's begin...

1. See a video explanation of how it works

2. Select the "Maps already georeferenced" tab to view the maps included in the project. Click on the red marker and follow the Georeferencer link to view the map overlaid in Google Earth or make further edits to perfect the georeferencing.
3. Once in Georeferencer: the old map will appear on the left. A modern map will appear on the right.
4. Zoom into the old map enough to read it, and then find the corresponding location on the modern map. Use the gazetteer at the top if necessary. Click on the "This map" tab to access the map's title and a description.
5. Click on one map to assign a point, then assign a point at the same location on the other map.
6. Assign as many points as you can over the entire map.
7. Click the red "Save" button in the upper right when you are finished.

The map will then appear "overlaid" upon the modern landscape in Google Earth. You will need to have the Google Earth plug-in installed - <http://earth.google.com/plugin/>.
[Detailed instructions can be downloaded here](#) (PDF format).

If you wish to choose your own map, go to the [Online Gallery](#) to search. In addition to your search terms, be sure to include "map", e.g. "Ely map".

Progress

725 maps	100% Finished	0% Awaiting
724 maps		1 maps

For questions about the project or help, contact georeference@bl.uk.

KLOKAN TECHNOLOGIES
www.klokan.com

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El Georeferencer a la Cartoteca de l'ICC

- Després d'unes primeres proves de georeferenciació manual es va veure que una digitalització massiva dels mapes de la cartoteca requeria molts recursos
- Es va valorar positivament la utilització d'una fórmula de crowdsourcing
- Avantatges
 - És molt fàcil d'utilitzar
 - Els usuaris fan la georeferenciació i s'obtenen beneficis per ambdues parts
 - Permet georeferenciar un nombre gran de documents
 - En cas d'èxit de la prova pilot es pot traslladar l'execució i les dades a l'entorn del client
- Inconvenients
 - És un servei que cal contractar
 - Les dades resideixen en el núvol del proveïdor del servei durant la prova pilot
 - Cal comprovar la qualitat de les georeferències

El Georeferencer a la Cartoteca de l'ICC


- Es un projecte pilot amb una durada d'un any
- S'han escollit 1.000 documents cartogràfics per al pilot
- És molt intuïtiu de manera que no cal cap tipus d'expertesa per a dur-ho a terme
- És compatible amb els navegadors web més habituals
- Està en desenvolupament constant, i s'accepten propostes de millora i revisió d'errors

El Georeferencer a la Cartoteca de l'ICC

S'han triat mapes de les col·leccions d'Àfrica, d'Amèrica, Catalunya, Espanya, Europa, fons FECSA, fons Monés, fotoplànols, minutes municipals i mapes de tot el món.



S'accedeix al Georeferencer des d'un enllaç a la capçalera de les pàgines de la Cartoteca Digital.



ICC
Institut Cartogràfic de Catalunya




Cartoteca Digital

Inici
Veure's tots
Georeferenciació

[? Help](#) | [English](#)

Search [Search](#) [Advanced Search](#)

Col·leccions de mapes

 Mapes de Catalunya (s. XVII-XX) 1014 Documents	 Mapes d'Espanya (s. XV-XX) 1603 Documents	 Mapes d'Europa (s. XVI-XX) 1676 Documents	 Mapes d'Amèrica (s. XVII-XX) 330 Documents	 Mapes d'Àfrica (s. XVI-XX) 233 Documents	 Mapes d'Àsia, Oceania i illes del Pacífic (s. XVI-XX) 283 Documents
 Mapes de tot el món i grans regions (s. XVI-XX) 248 Documents	 Vistes d'indrets de Catalunya i de tot el món (s. XVI-XX) 1096 Documents	 Fons Monés de la guerra civil (1936-1939) 266 Documents	 Espanya 1:50 000 (1936-1939) 275 Documents	 Catalunya: fons FECSA (1914-1982) 14 Documents	 Catalunya: minuts municipals 1:25 000 (1914-1936) 869 Documents
 Ortofotomapa de Catalunya 1:5 000 v1 (ICC, 1985-1992) 6317 Documents	 Província de Barcelona 1:10 000, 1:5 000 i 1:2 000 (1966-1980) 2108 Documents	 Catalunya satèl·lit 1:100 000 (ICC, 1985-1988) 34 Documents	 Municipis de Catalunya 1:500 i 1:2 000 (1955-1960) 35 Documents	 Iberia 1:250 000 (1941-1943) 77 Documents	 Producció ICC (1982-) 6456 Documents

Col·leccions d'imatges

 Fotoplànols de ciutats catalanes (1945-1966) 80 Documents	 Fotomosaic província de Barcelona 1:5 000 (1967) 919 Documents	 Fotografies aèries de Catalunya (Gaspar, 1929) 268 Documents	 Noguera Pallaresa (Barrie, 1914-1916) 73 Documents	 Fotografies antigues dels paisos catalans (Cuyàs, s. XX) 11731 Documents	 Vistes estereoscòpiques (1920-1930) 353 Documents
 Fons fotogràfic Reparaz (1920-1951) 1527 Documents	 Museu d'instruments científicotècnics 130 Documents				

[Back to top](#)

[Inici](#)
[Què és la Cartoteca Digital?](#)
[Escriu-nos](#)

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ICC
Institut Cartogràfic de Catalunya

Cartoteca Digital

Inici Veure'ls tots ? Ajuda Català

Cercar [Cerca avançada](#)

Home >> Georeferenciació

Ens ajudes a posar coordenades a aquests mapes antics?

- A la Cartoteca Digital hi trobareu molts mapes, però... no us agradaria poder-los veure en 3D sobre un mapa actual? Per a aconseguir-ho només es necessiten les coordenades. Voleu participar aportant-nos-les?
- Tenim a punt 1.000 mapes de Catalunya i de la resta del món. És per això que necessitem la vostra col·laboració!

La galeria dels mapes acabats

Els mapes vistos sobre el mapa del món

La vostra feina tindrà reconeixement: els clausurats gaudiran d'una visita guiada per la Ca

Name	Control points
1 Raf_icc	
2 Rafael Roset	
3 Noelia Ramos	
4 Geo Inquiets	
5 Petr Pridal	

All the time

Tornar a l'inici

Inici Què és la Cartoteca Digital? Escriviu-nos Recolzet en [CONTENÍDAM](#)

ICC
Institut Cartogràfic de Catalunya

Cartoteca Digital

Inici Veure'ls tots ? Ajuda Català

Cercar [Cerca avançada](#)

Home >> Georeferenciació

Vull començar a georeferenciar

Guia per a georeferenciar mapes

Els que heu georeferenciat fins ara:

99% **Avançant**

999 mapes

990 mapes

La vostra feina tindrà reconeixement: els clausurats gaudiran d'una visita guiada per la Ca

Name	Control points
1 Raf_icc	
2 Rafael Roset	
3 Noelia Ramos	
4 Geo Inquiets	
5 Petr Pridal	

All the time

Tornar a l'inici

Inici Què és la Cartoteca Digital? Escriviu-nos Recolzet en [CONTENÍDAM](#)

Aspecte de la pàgina d'inici del Georeferencer i de la pàgina d'ajuda.

Georeferencer (1)

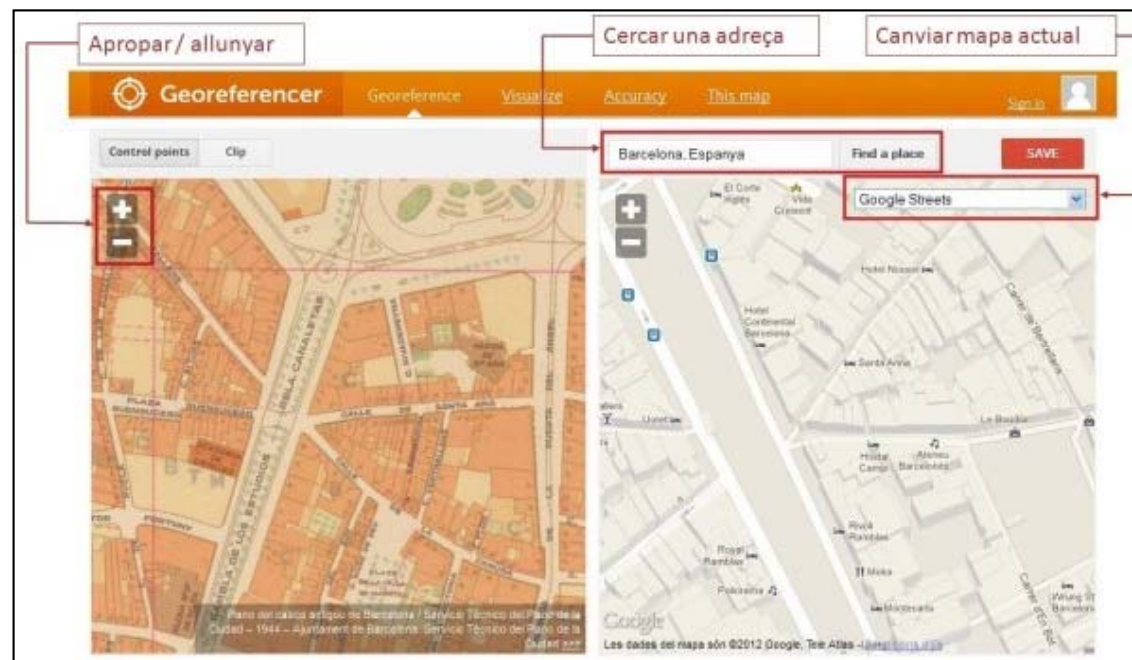
Per començar a georeferenciar un mapa, feu clic al botó que mostrem i que es pot trobar tant a la pàgina del Georeferencer com a la pàgina d'ajuda.

L'assignació de mapes és 'quasi aleatòria'. Un cop adjudicat, el mapa queda bloquejat per a l'usuari.



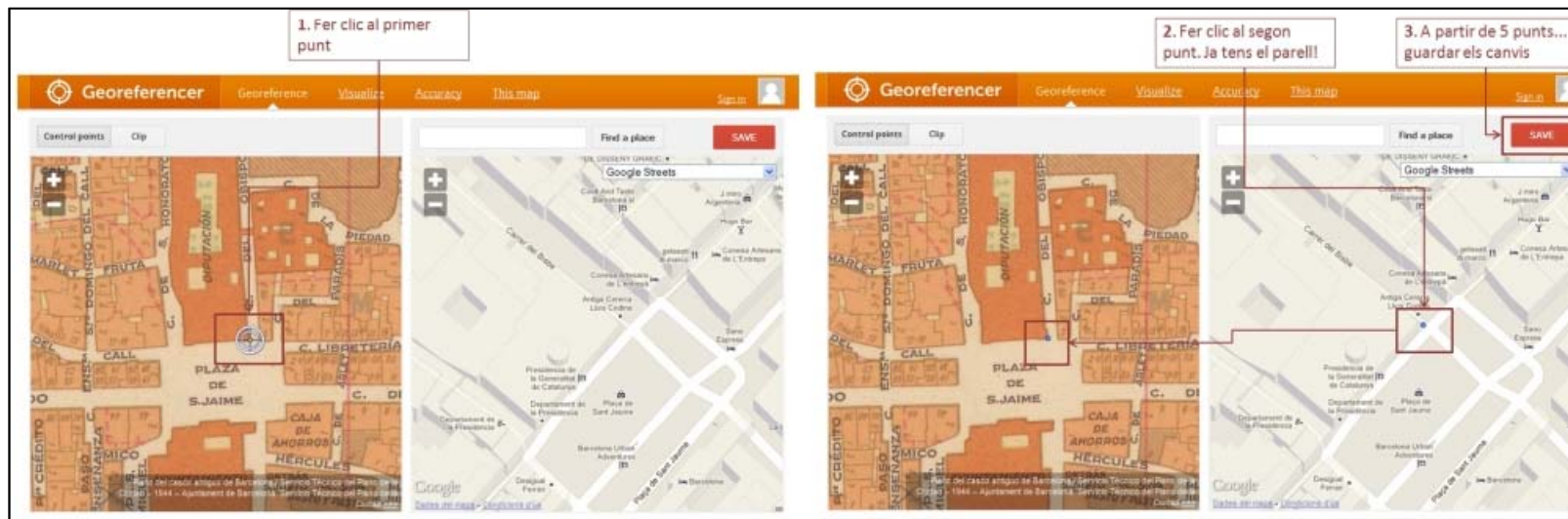
Georeferencer (2)

Una vegada dins del Georeferencer, es presenten dues finestres amb mapes: a l'esquerra el mapa antic digital, a la dreta el mapa actual. El mapa actual, per defecte, és l'OpenStreetMap, tot i que es pot canviar seleccionant una altra capa a la llista desplegable. Amb el + i el – es pot apropar o allunyar la imatge. També teniu l'opció d'utilitzar la caixa de cerca per introduir una adreça (Find a place) i localitzar un lloc que sigui identificable en tots dos mapes: l'antic i l'actual.



Georeferencer (3)

Examineu amb detall els mapes tot buscant els espais que han perdurat al llarg dels anys: aquests seran els **punts de control**. Es tracta, habitualment, d'encreuaments de carrers, ponts, esglésies, castells, caps i fars... Quan indentifiqueu un punt de control feu clic sobre el punt en un mapa (sortirà una mira) i seguidament en l'altre mapa (veureu un punt blau a cada mapa). Assigneu uns quants punts coneguts, fent clic primer en una finestra i després en l'altra. **El mínim de punts requerits perquè la imatge estigui georeferenciada és de 5.** Com més punts i més dispersos estiguin per tota la imatge, més precisa serà la superposició sobre el terreny. Si voleu eliminar un punt ja assignat: feu clic sobre el punt que fa de parella, selecciona'l i prem el botó Supr o delete del teclat. El parell de punts s'esborrarà.



Georeferencer (4)

Quan acabeu, feu clic sobre el botó vermell de la cantonada superior dreta, *Save*. És necessari que us identifiqueu per guardar les vostres georeferenciacions. Ho podeu fer amb el vostre compte de Google, Twitter o Facebook o creant un nou compte específic per al Georeferencer.

The image shows a login and sign-up interface for Georeferencer. On the left, under the heading "Sign in with...", there are three buttons: "Sign-in with Google", "Sign-in with Facebook", and "Sign-in with Twitter". A box on the left contains the text "Identificar-se amb un compte que ja tens de Gmail, Facebook o Twitter" with arrows pointing to each of the three buttons. On the right, under the heading "or your email address", there are input fields for "Email" and "Password", a "Sign in" button, and a "Sign up!" link. A box on the right contains the text "Crear un nou compte amb el teu email" with an arrow pointing to the "Sign up!" link. The "Sign up!" link is highlighted with a red box.

Georeferencer (5)

Una vegada s'hagi guardat la vostra feina, automàticament us portarà a la pestanya de visualització, *Visualize*, on veureu el vostre mapa antic superposat sobre el territori actual. Les eines de zoom i transparència us ajudaran a veure la representació territorial dels canvis en el temps. Sempre podreu afegir o millorar els vostres punts de control, tornant a *Georeference*.



Georeferencer (6)

A la pestanya *Accuracy* podeu avaluar la precisió del mapa antic i de la vostra georeferenciació. Si el resultat queda molt estirat o arrugat és possible que algun punt de control no estigui posicionat al lloc. Per a evitar-ho, cal que els punts estiguin dispersos al llarg de tota la imatge, també cap a les cantonades. Per a més informació sobre el funcionament de l'eina d'anàlisi, vegeu: <http://mapanalyst.org/>

The screenshot shows the Georeferencer web application interface. The top navigation bar includes 'Georeferencer', 'Georeference', 'Visualize', 'Accuracy', and 'This map'. A 'Sign out' button and a user profile icon are also visible. The main content area is divided into two sections. On the left, there is a map viewer with a '+' and '-' zoom control. The map displays a historical map of Barcelona with a black grid overlay, indicating the georeferencing process. Below the map, a caption reads: 'Plano del casco antiguo de Barcelona / Servicio Técnico del Plano de la Ciudad - 1944 - Ajuntament de Barcelona. Servicio Técnico del Plano de la Ciudad 2002'. On the right, the 'Accuracy analysis' section provides a description of the tool's function: 'This tool computes distortion grids and other types of visualizations that illustrate the geometrical inaccuracy and distortion calculated from the georeference. This visualization can help to identify wrongly assigned control points. It can be also a valuable tool for map historians to quickly ascertain how spatial representation differs between areas on a map, in particular in early mapping. For more information on how this works, see <http://mapanalyst.org/>'. Below this, the 'Available visualizations:' section lists several options with checkboxes: 'Distortion grid' (checked), 'Displacement circles' (checked), 'Displacement vectors' (checked), 'Isolines scale' (unchecked), and 'Isolines rotation' (unchecked). A 'Download SVG' button is located at the top right of this section. At the bottom, it states 'Powered by MapAnalyst'.



Georeference Visualize Accuracy This map

[Instructions for this tool](#)

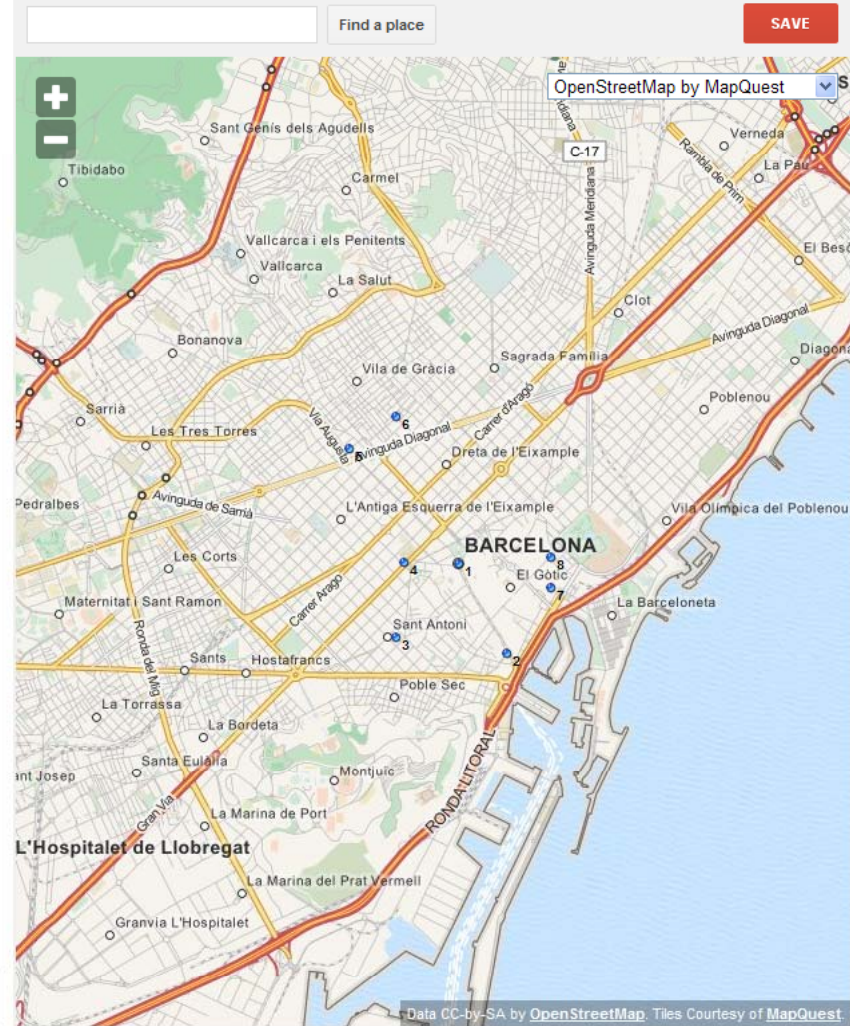
[Georeference another map](#)

Control points

Clip



Plano de Barcelona con la parte de Ensanche que se está edificando en la actualidad / publicado con especial autorizacion del Esmo. Sr. Gobernador de la provincia; es propiedad de J.R. y B. ; R. Tarragó litografió - 1866 - Tarragó, Ramon >>>




Data CC-by-SA by OpenStreetMap. Tiles Courtesy of MapQuest

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Georeference
Visualize
Accuracy
This map

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Control points
Clip





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SAVE

Clipping the map

With this tool you can mark the area containing the mapping data. This helps to define precisely the metadata region. In the future the marked map collars will be removed during the visualization (not yet implemented).

To start editing a new area:

- Hold the SHIFT key and drag with the mouse over the map area.**
- Once you release the mouse button the editable area is created.

To adjust existing area:

- Drag the circle nodes shown on the cutline to adjust the shape.**
- By pressing DELETE key (or D key) you can delete a node under your cursor.

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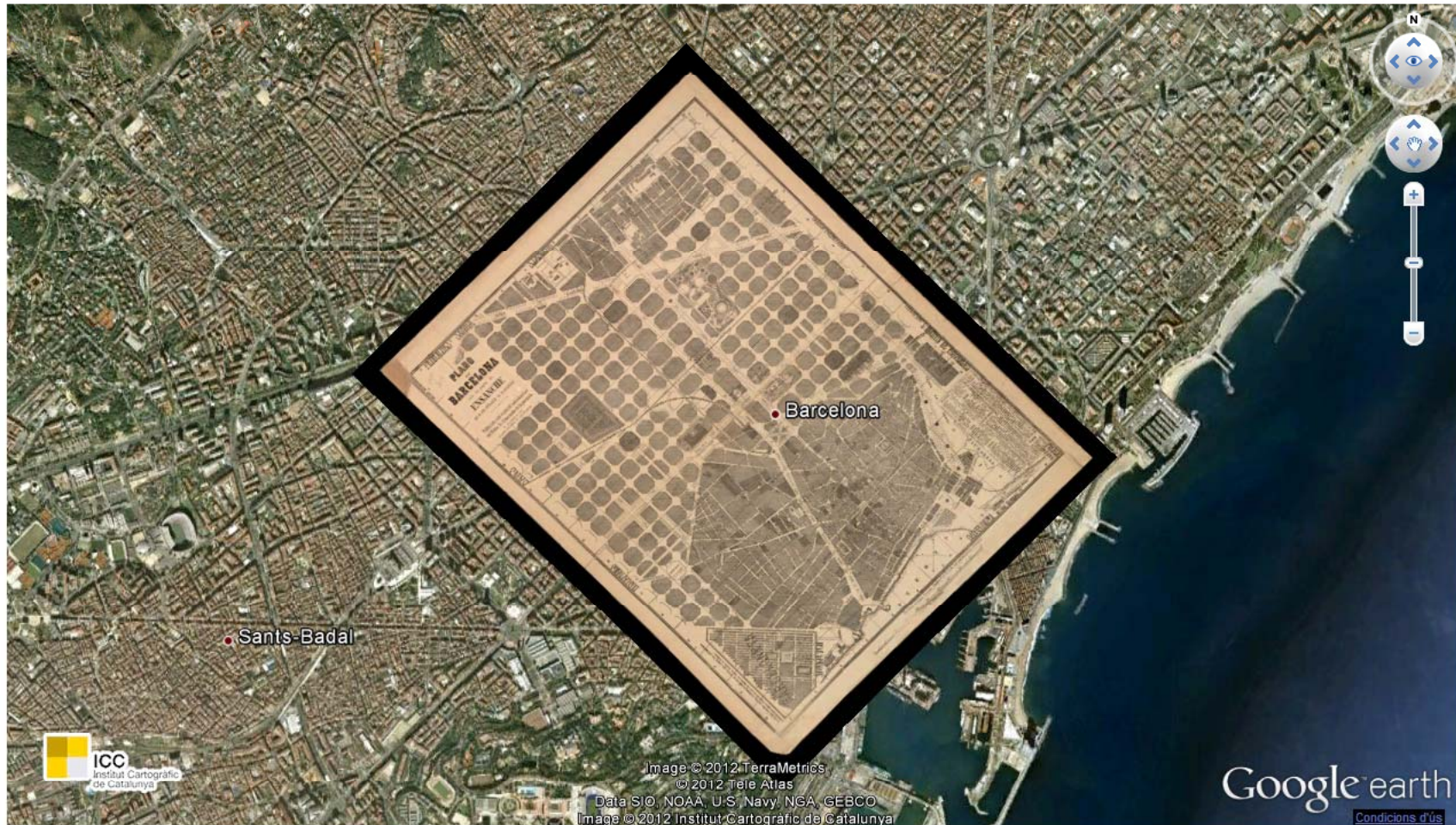
[Georeference](#) [Visualize](#) [Accuracy](#) [This map](#)

[Instructions for this tool](#)

[Georeference another map](#)



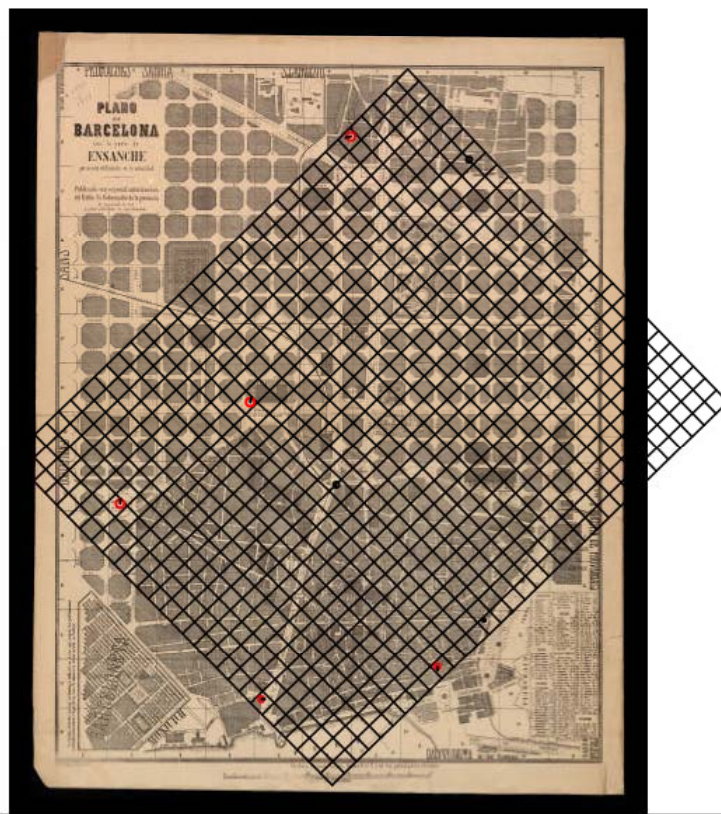
[Open KML in Google Earth](#)



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[Download SVG](#)


Accuracy analysis

This tool computes distortion grids and other types of visualizations that illustrate the geometrical inaccuracy and distortion calculated from the georeference. This visualization can help to identify wrongly assigned control points.


It can be also a valuable tool for map historians to quickly ascertain how spatial representation differs between areas on a map, in particular in early mapping.

For more information on how this works, see <http://mapanalyst.org/>

Available visualizations:


- Distortion grid
- Displacement circles
- Displacement vectors
- Isolines scale
- Isolines rotation

Powered by [MapAnalyst](#)



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Georeference
Visualize
Accuracy
This map

[Instructions for this tool](#) [Georeference another map](#)

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[Full metadata](#)

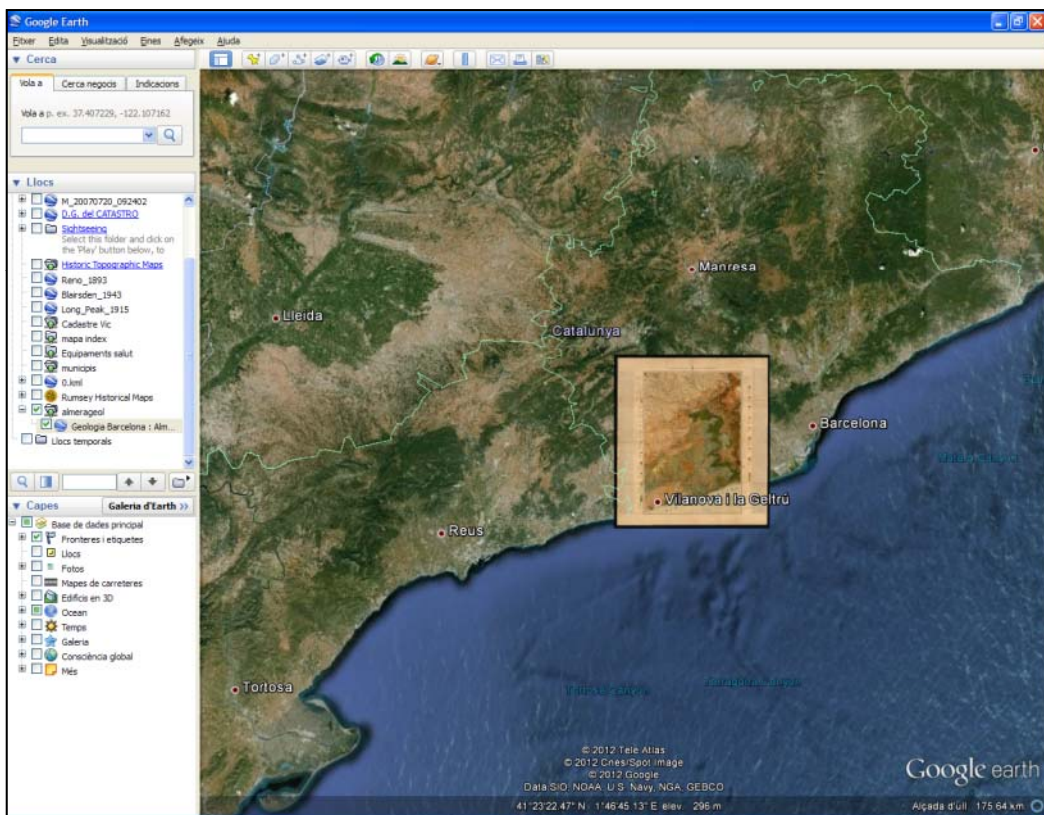
Metadata

- **title:** Plano de Barcelona con la parte de Ensanche que se está edificando en la actualidad / publicado con especial autorizacion del Esmo. Sr. Gobernador de la provincia; es propiedad de J.R. y B. ; R. Tarragó litografió
- **description:** 1 Mapa. Datació aproximada.
- **creator:** Tarragó, Ramon
- **contributor:** None
- **publisher:** None
- **date:** 1866
- **issued:** None
- **width:** 520
- **height:** 670
- **scale:** 1:5000
- **center:** None
- **bbox:** None

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Incorporació a les col·leccions



Els mapes es poden veure en 3D un cop georeferenciats, des del catàleg de les col·leccions digitals.

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Cartoteca Digital

Home > Mapes de Catalunya (s.XVII-XX) > Mapa geològic i topogràfic de la província de Barcelona: regió segona ó del río Noya al mar detallada / geologia por el canónigo Dr. D. Jaime Almera; topografía por Eduardo Brossa; litografiado por E. Brossa y Trullàs

Mapa geològic i topogràfic de la província de Barcelona: regió segona ó del río Noya al mar detallada / geologia por el canónigo Dr. D. Jaime Almera; topografía por Eduardo Brossa; litografiado por E. Brossa y Trullàs

Descripció

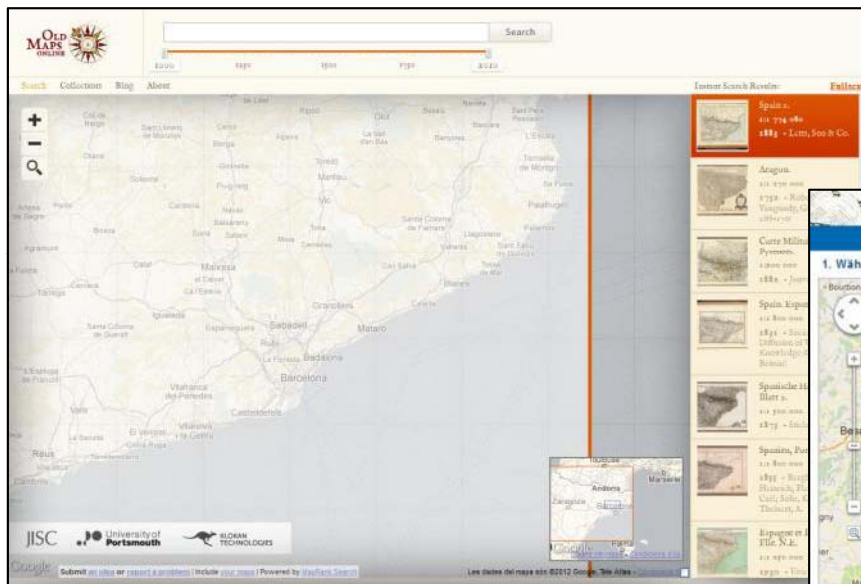
Puntuació	★★★★☆ En base a 0 Puntuació(s)
Àrea geogràfica	Barcelona (província)
Títol	Mapa geològic i topogràfic de la província de Barcelona: regió segona ó del río Noya al mar detallada / geologia por el canónigo Dr. D. Jaime Almera; topografía por Eduardo Brossa; litografiado por E. Brossa y Trullàs
Autor	Almera, Jaime ; Brossa, Eduard ; Diputació de Barcelona
Any original	1897
Altres autors	Ll. Henrich y Cia.
Descripció	1 Mapa, col. "Subvencionado por la Excma. Diputación de Barcelona".
Extensió	1140 000
Dimensions	82 x 57 cm
Registre	XH.139906
Tipus de recurs	Imatge
Matèria	Mapes
Editor digital	Institut Cartogràfic de Catalunya
Disponible des de	2010-01-27
Format	JPG
Resolució	150 dpi
Permis d'ús	Còpia permesa amb finalitat d'estudi o recerca, citant la font Institut Cartogràfic de Catalunya. Per a qualsevol altre ús cal demanar autorització.
In	Mapes de Catalunya (s. XVII-XX), http://cartotecadigital.ucc.cat/
Directe	http://creativecommons.org/licenses/by-nc-nd/3.0/es/deed.ca/

Etiquetes (0):
Comentaris (0)

Tornar a l'inici

MapRank search

Una manera diferent d'accedir als mapes antics



www.oldmapsonline.org



kartenportal.mapranksearch.com

Projecte Georeferencer

R.Roset

Responsable de cartoteca digital

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