

# Search digitized cartographic materials on the example of the TEMAP project

Eva Novotná  
Map collection, Charles University in Prague  
2015, Corfu



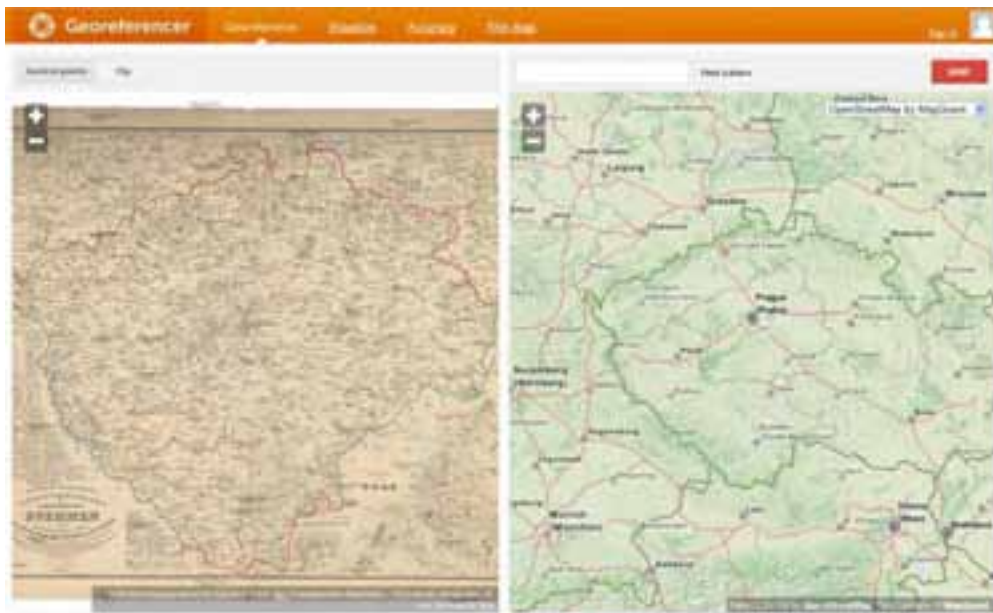
# Presentation outline

- Temap project
- Descriptive metadata
- Accessibility in catalogues
- Accessibility in repository
- Web presentations
- Search and barriers
- Data export and barriers
- Geographical search and barriers
- Conclusion

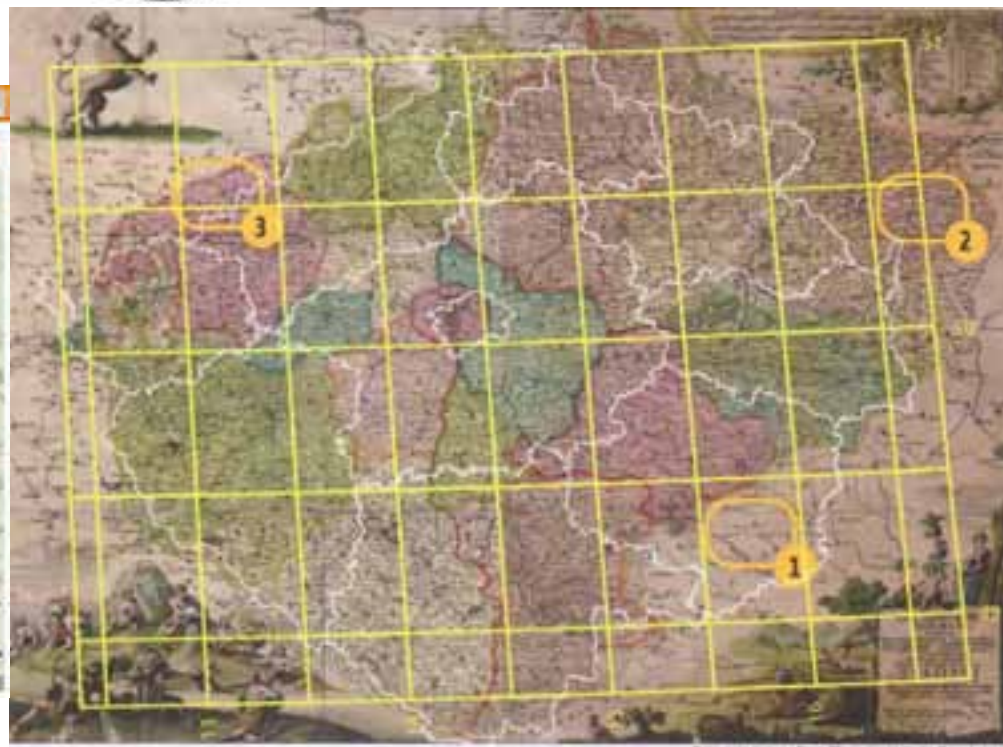
# TEMAP project

50,000 bibliographic records have been catalogued

45,000 maps, 90 atlases, 6 globes were digitized



Georeferencer



Software detecting unknown cartographic projection

# Cartographic documents description



FMT	MP
PSP	a ER
LDR	-----nem-a22-----4500
001	001368688
003	CZ-PrCU
005	20111014194747.0
007	aj aa
008	110711s1564----xx-----a----- - -ita-d
0340	d E0193608  e E0200935  f N0395752  g N0391854
040	a ABD065  b cze  c ABD065
072 7	a 094  x Staré tisky  2 Konspekt  9 12
072 7	a 912  x Mapy. Atlasy  2 Konspekt  9 7
080	a 094:912.43  x (495)  2 MRF
24500	a Vogliono alcuni che l'Isola di Corfú fosse prima da Sisifo latrone figliolo di Eolo habitata, et domandata da lui Corcira  h [kartografický dokument] :  b la quale dopo la sua morte essendo stata rovinata, di nouo la restauro Corinto figliolo di Oreste, donde prese il nome di Corinto, et appresso fú detta Malena, hoggi da tutti é detta Corfú : la quale, come siuede nel disegno diligente fatto, si come hoggi si troua in essere, con tutte le sue ville, fiumi, porti, monti, secchi, et altre cose, é di figura oblonga, et é lontana dalla Italia per miglia sessanta, et da Epiro miglio uno per un capo, et per l'altro miglia venti, la sua longhezza é di miglia quara[n]ta in circa, et circo[n]da quasi trecento miglia /  c Fer[n]a[n]do Berteli exc.
2462	a Vogliono alcuni che l'Isola di Corfú fosse prima da Sisifo latrone figliolo di Eolo habitata, et domandata da lui Corcira :  b la quale dopo la sua morte essendo stata rovinata, di nouo la restauro Corinto figliolo di Oreste, donde prese il nome di Corinto, et appresso fú detta Malena, hoggi da tutti é detta Corfú : la quale, come siuede nel disegno diligente fatto, si come hoggi si troua in essere, con tutte le sue ville, fiumi, porti, monti, secchi, et altre cose, é di figura oblonga, et é lontana dalla Italia per miglia sessanta, et da Epiro miglio uno per un capo, et per l'altro miglia venti, la sua longhezza é di miglia quara[n]ta in circa, et circo[n]da quasi trecento miglia

## Basic standards:

AACR2/R, new RDA rules,  
ISBD (CM), ISBD (A), format MARC  
21

3 employees: annually  
11,000 bibliographic records

255	a Měřítko neuvedeno  c (019°36'08" v.d.--020°09'35" v.d./039°57'52" s.š.--039°18'54" s.š.)
260	a [S.l.] :  b Fer[n]a[n]do Berteli,  c 1564
300	a 1 mapa :  b čb. mědiryt ;  c 36,4 x 26,8 cm na listu 37,4 x 27,2 cm
65004	a regionální mapy
651 7	a Korfu, ostrov (Řecko)  7 ge138038  2 czenas
655 7	a staré tisky  7 fd422076  2 czenas
7001	a Bertelli, Ferdinando,  d činný 1556-1572  7 uk2011665091  4 pbl
85641	u <a href="http://digitool.is.cuni.cz/R/?func=dbin-jump-full&amp;object_id=838004">http://digitool.is.cuni.cz/R/?func=dbin-jump-full&amp;object_id=838004</a>  y Zobrazení plného textu (Digitální archiv UK)
903	a RP
910	a ABD065

interchange format MARC 21

# Metadata MIX

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<?xml version="1.0" encoding="UTF-8"?>
<mix xsi:schemaLocation="http://www.loc.gov/standards/mix/mix20 mix20.xsd" xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance" xmlns="http://www.loc.gov/mix/
v20"><BasicDigitalObjectInformation><ObjectIdentifier><objectIdentifierType> Univerzita Karlova, Přírodovědecká
fakulta, Mapová sbírka</objectIdentifierType><objectIdentifierValue>D1/184/9</objectI
<ScannerCapture><scannerManufacturer>ProServ</scannerManufacturer>
<ScannerModel><scannerModelName>ScannTech</scannerModelName><scannerModelNumber>401i</
scannerModelNumber></ScannerModel>
<MaximumOpticalResolution><xOpticalResolution>400</xOpticalResolution><yOpticalResolution>400</
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<ObjectIdentifier>
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dateTimeProcessed><sourceData>D1_00184_00009_3233271572.tif</sourceData><processingAgency>Věra Fialová -
MICRONA, Jungmannova 950, Kuřim</processingAgency><processingRationale>TIFF to GEOTIFF transformation</
processingRationale>
<ProcessingSoftware><processingSoftwareName>Adobe Photoshop CS5</processingSoftwareName></
ProcessingSoftware>
<ProcessingSoftware><processingSoftwareName>MicroStation PowerDraft V8i</processingSoftwareName></
ProcessingSoftware><processingActions>Format migration from TIFF to GEOTIFF</processingActions></
ImageProcessing>
```

TEMAP II - testy pro zápis... Možné nosné části MAX II... překladač - Hledat Google... Bach & Zelenka: Jan D... Katalog Mapové sbírky... CKIS - Search Results

chil.cuni.cz/F/SCQFRBKTBRUJNTWIXHPEYKHFBH4SSDUMQTM52RCDNGCPT-21857?func=find-a&find\_code=WFD/REQUEST=&request\_op... katalog mapové sbírky

CKIS NOT SIGNED IN

## Centrální katalog Univerzity Karlovy v Praze

» Login CU user » Login external user » End Session » Preferences » Databases » Feedback » Help

» Search » Results List » Previous Searches » My e-Shell

Selected records: View Selected Save/Mail Create Subset Add to My e-Shell Save on Server  
 Whole set: Select All Deselect DOI Request Refine Rank Filter

Results for W-subjects= korfu and W-sublibrary= MAP; Sorted by: Year (descending)/Author  
 Sort options: » Author/Year(d) » Author/Year(a) » Year(d)/Author » Author/Title » Title/Year(d) » Title/Year(a) » Year(d)/Title

Records 1 - 20 of 27 (max. display&sort is 10000 rec.)

#	Cover	Author	Title	Year	Type	Library(no.of items)	Ext. Link
1	<input type="checkbox"/>	Německo. Hauptvermessungsabteilung XIV	38°40' Korfu [kartografický dokument] = 38°40' (Kerkira) / herausgegeben von der Hauptvermessungsabteilung XIV.; [Militärgeographisches Institut]	1940		ScF Map collection( 1/ 0)	Zobrazení plného textu (Digitální archiv UK)
2	<input type="checkbox"/>	Rakousko. Kartographisches Institut	38°40' Korfu [kartografický dokument] = 38°40' (Kerkira) / Kartographisches, früher Militärgeographisches Institut	1927		ScF Map collection( 1/ 0)	Zobrazení plného textu (Digitální archiv UK)
3	<input type="checkbox"/>	Nimmerfroh, J.	Elbasan, Argyrokastron, Janina, Korfu, Philataes, D. 6, [kartografický dokument] / Schrift u. Gienppe v. J. Nimmerfroh, Terrainschraffirung v. K. Wohlslein	1918		ScF Map collection( 1/ 0)	Zobrazení plného textu (Digitální archiv UK)
4	<input type="checkbox"/>	Rakousko-Uhersko. Militärgeographisches	Elbasan, Argyrokastron, Joannina, Corfu, Philataes, D.6, [kartografický dokument] / K. u. k.	1918		ScF Map collection( 6/ 0)	Zobrazení plného textu (Digitální archiv UK)



Charles University Central Catalogue in Prague header. It features the university's logo on the left, the text 'Centrální katalog Univerzity Karlovy v Praze' in the center, and a navigation menu with links like 'Login (for user)', 'Login (external user)', 'Full Screen', 'Professionals', 'Statistics', 'Feedback', and 'Help'. Below the header is a secondary navigation bar with links: 'Add to My e-Shelf', 'Locate', 'Save/Print', 'Save as Server', and 'RSS'.

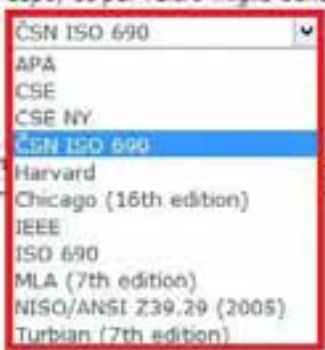
## Full View of Record

Choose format: **Standard format Catalog card Citation Items tags MARC tags**

Record 1 out of 25



Bibliographic record details for record 1 of 25. The record number is 001300000. The title is 'Vojtěch Janda, který žil v době Jiřího z Poděbrad...'. The imprint is '[S.l.] : Fiedlitz, 1544'. The description is '1 mapa : il. ; vydryt ; 35,4 x 25,8 cm na listu 37,4 x 27,2 cm'. The subject is 'Vojtěch Janda'. The genre is 'Mapa'. The call number is '094.9(2.43)493'. The citation is '094.9(2.43)493'.





A dropdown menu for selecting citation styles. The menu is open, showing a list of styles: 'ČSN ISO 690', 'APA', 'CSE', 'CSE NY', 'ČSN ISO 690' (highlighted), 'Harvard', 'Chicago (16th edition)', 'IEEE', 'ISO 690', 'MLA (7th edition)', 'NISO/ANSI Z39.29 (2005)', and 'Turkian (7th edition)'. The 'ČSN ISO 690' option is currently selected.




Choose format: Standard format Catalog card Citation MARC tags

Bibliographic records can be displayed in 5 formats and in 11 citation styles

GEO BIBL - Full View of Record

000155475:1:12M25A4V9Z7Z5MGK8FNDV955LJCT8508EPMANDAX3... 458215...-full-see-xml&act\_number=014551&act\_entry=0000442

Feedback Help  

 **Czech geographical bibliography online**  **UJEP** 



» Search » Results List » Previous Searches » e-Shelf » Info » Preferences

» Add to My e-Shelf » Save/Mail

### Full View of Record

Select format: Standard format... Catalog card... Short record... MARC21 tags

**Record 4 of 23**

Record Number	000155475
Main Entry	<a href="#">Fabricius, Pavel, 1519-1589</a>
Title	<a href="#">Moraviae, quae olim Marcomannorum sedes conopodicae nunc quibusdam correctae. : [Abraham Ortelius]</a>
Imprint	[Antverpy : Abraham Ortelius, 1580]
Descr.	1 mapa : kolor. ; 34 x 46 cm na listu 43 x 54 cm
Gen. Note	Zobrazena moravská orlice Rukopisná poznámka o autorovi a dataci na okraji Na rubu listu tištěný text o Moravě s číslem strany
Add. Entry	<a href="#">Ortelius, Abraham, 1527-1598</a>
Electronic Location	<a href="#">Zobrazení plného textu (Digitální archiv UK)</a>
Subject	<a href="#">regionální mapy</a>
Geograph.name	<a href="#">Morava (Česko)</a>
Genre	<a href="#">staré tisky</a>
Related	CKIS
Format	MP
Citation	FABRICIUS, Pavel a ABRAHAM ORTELIUS. Moraviae, ČesN ISO 690  <a href="#">cítace</a> 



Mets Viewer - Mozilla Firefox

00248\_00016

ExLibris Digital - Resource Discovery

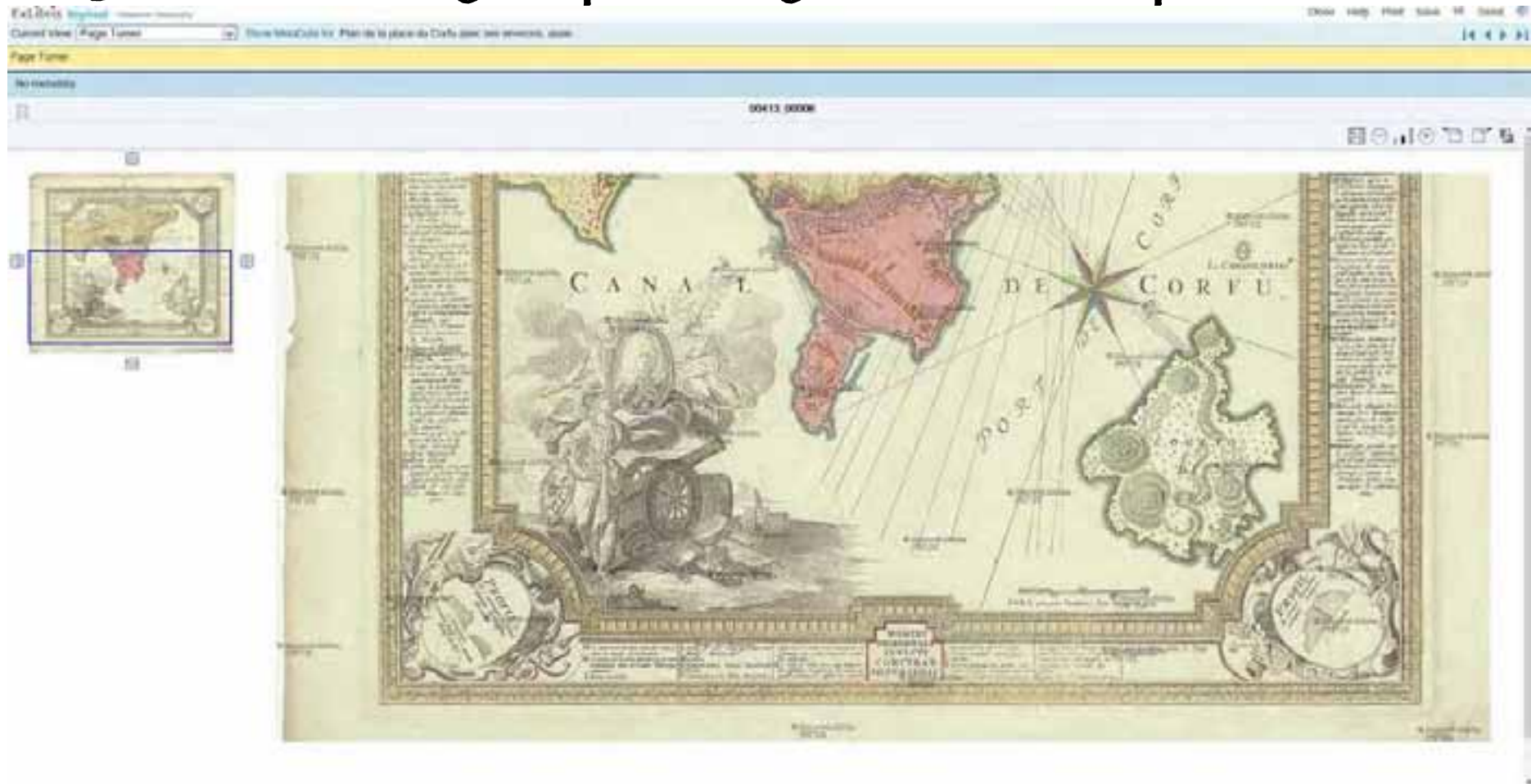
Current View: (physical) Show MetaData for: Moraviae, quae olim Marcomannorum sedes conopodicae...

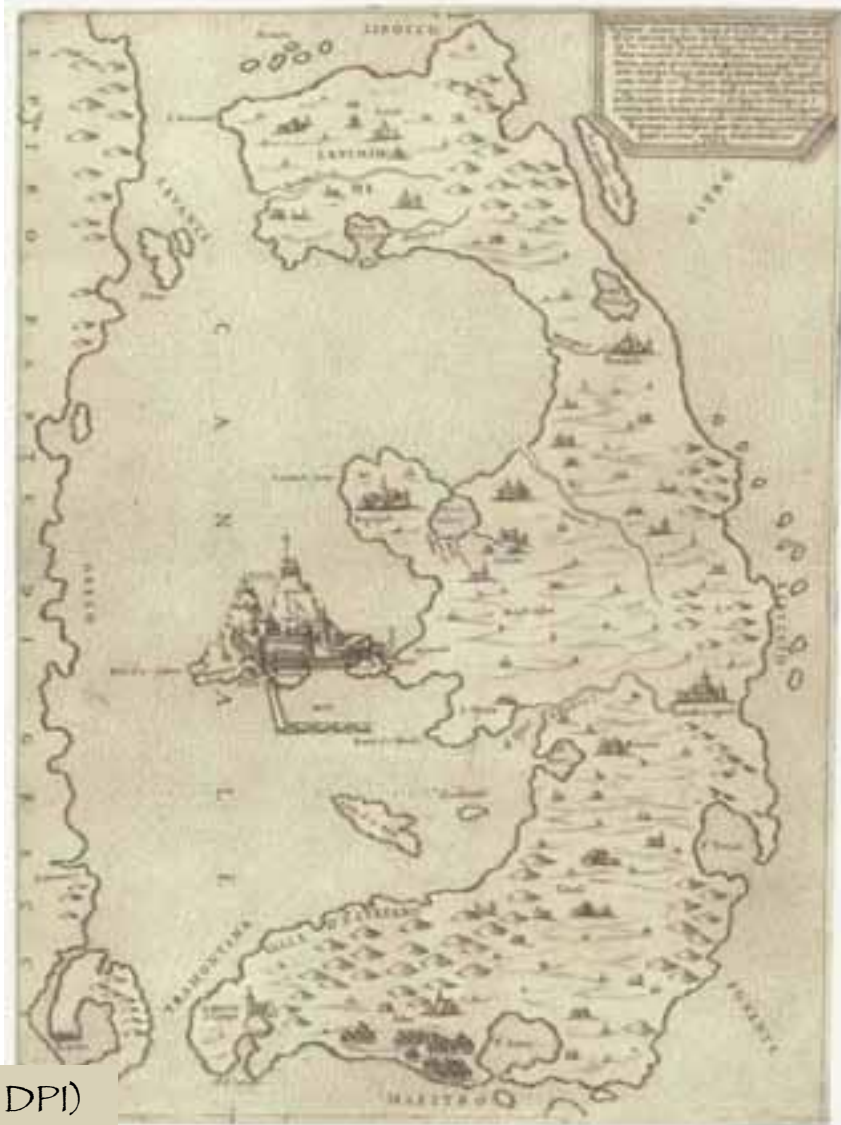
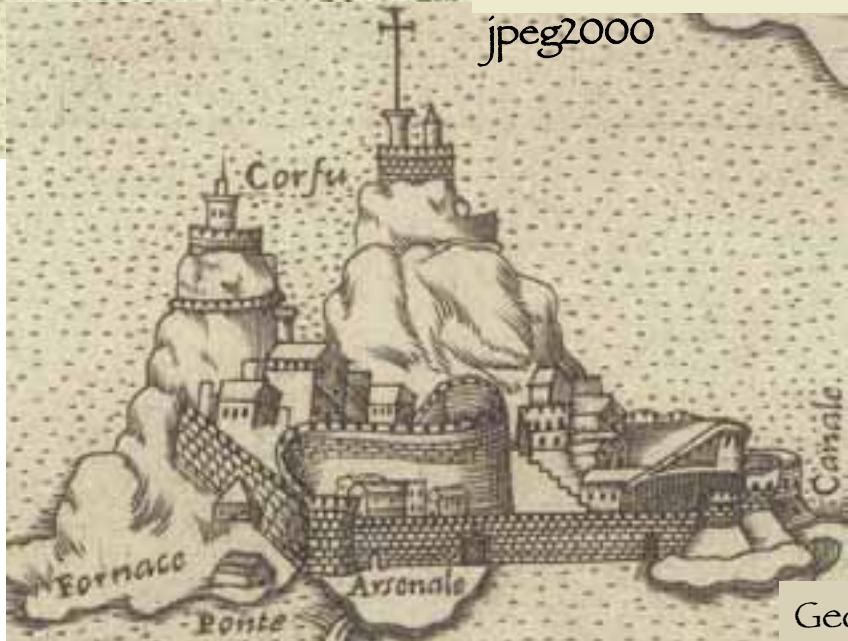
No metadata



# Digital University Repository: 45,000 maps





GeoTiff (400 DPI)

**HOME PAGE**

Map Collection of the Faculty of Science of Charles University contains **88 globes, atlases and an auxiliary website** (born in 2015), including 20 new specimens. The globes are being made accessible in the public aspect of the TMAP project for this reason, a separate website has been created for the globes of the Map Collection of the Faculty of Science of Charles University.

The website offers both descriptive and visual information on the globes and, in particular, supports their (re)construction of virtual models of selected cartelli in various formats.

The website will further be developed and gradually extended to include other virtual 3D presentations of the globes.

*The website pages have been translated for the internet Explorer 10. Problems may occur if other browsers are used! Details: [Browser may also be used to reconstruct cartelli! Please! Profiles and Specifications.](#)*

View of the gallery and online gallery

**2D Gallery**



**3D Gallery**



**VÍTĚJTE NA WEBU**

**Profesora RNDr. Karla Kuchaře**

*Tento portál je věnován zejména předložením pro altmetrické školy, jejichž členové byli bytostně zapojeni v geografické výzkumné a výzkumné oblasti PEF UK v Praze.*

*Portál je v mapě, ale můžete ji poslat v jiném formátu. Více informací najdete v sekci "Profesora RNDr. Karla Kuchaře".*

Staré Mapy



Staré Mapy



Staré Mapy



# Search and barriers

Record Number

001633954

Author



Rakousko-Uhersko. Militärgeographisches Institut

Title

Elbasan, Argyrokastron, Joannina, Corfù, Philiaates. D.6. [kartografický dokument] / K. u. k. Militärgeographisches Institut ; Schrift u. Gerippe v. J. Nimmerfroh, Terrainschraffirung v. K. Wohlstein

FMT MP

LDR -----nem-a22-----4500

001 001633954

003 CZ-PrCU

005 20131029152218.0

007 aj|c| | | |

008 131029s1918----au-----a-----|---ger-d

0341 |a a |b 750000 |d E0185824 |e E0222811 |f N0413144 |g N0392003

040 |a ABD065 |b cze |c ABD065

080 |a 623:912.43 |x (495)+(496.5) |2 MRF

255 |a Měřítko 1:750 000 |c (018°58'24" v.d.--022°28'11" v.d./041°31'44" s.š.--039°20'03" s.š.)

300 |c 33 x 39 cm na listu 44 x 51 cm

910 |a ABD065

Other Title

Übersichts-Karte von Mittel-Europa

Imprint

[Vídeň] : K. u. k. Militärgeographisches Institut, [1918?]

Descr.

1 mapa : barev. ; 33 x 39 cm na listu 44 x 51 cm

Series

[Die Franzisco-Josephinische Landesaufnahme] 1:750 000

Add.Entry

Nimmerfroh, J.  
Wohlstein, K.

Gen. Note

Částečně opraveno k 2. 4. 1918

Electronic Location

Zobrazení plného textu (Digitální archiv UK)

Geograph. name

Elbasan (Albánie : oblast)  
Gjirokaštër (Albánie : oblast)  
Ioánina (Řecko : oblast)  
Korfu (Řecko : ostrov)

Genre

topografická mapová díla  
vojenské mapy

Conspectus

623 - Vojenská technika  
912 - Mapy. Atlasy. Glóby

UDC

623:912.43(495)+(496.5)

# Search after data export and barriers



Object



Record number

000019520

Title

Vogliono alcuni che l'Isola di Corfù fosse prima da Sisifo latrone figliolo di Eolo habitata, et domandata da lui Corcira (kartografico) dokument: la quale doppo la sua morte essendo stata ruinata, di nouo la restaura Corinto figliolo di Oreste, donde prese il nome di Corinto, et appresso fu della Malena, hoggi da tutti è detta Corfù: la quale, come siuede nel disegno diligente fatto, si come hoggi si troua in essere, con tutte le sue ville, fiumi, porti, monti, secchi, et altre cose, è di figura oblonga, et è lontana dalla Italia per miglia sessanta, et da Epero miglio uno per un capo, et per l'altro miglia uenti, la sua lunghezza è di miglia quara[n]ta in circa, et circo[n]da quasi trecento miglia / Fer[ri]n[do] Bertelli exc.

Subject

[regionāni mazy](#)

[094.912.43](#)

[094.912.43](#)

Publisher

Fer[ri]n[do] Bertelli

Contributor

Bertelli, Fernando.

Date

1664

Type

starā tsiky

Bookmarcable URL

[http://hdl.handle.net/http://distant.is.cuni.cz/R/?func=direct-ajmp-fuj&object\\_id=838004&site\\_library=GEN01](http://hdl.handle.net/http://distant.is.cuni.cz/R/?func=direct-ajmp-fuj&object_id=838004&site_library=GEN01)

Formal-Extent

1 mapa :

Coverage-Spatial

Korfú, ostrov (Řecko)

Coverage-Spatial

M77ko neuvedeno

# Geographical search and barriers

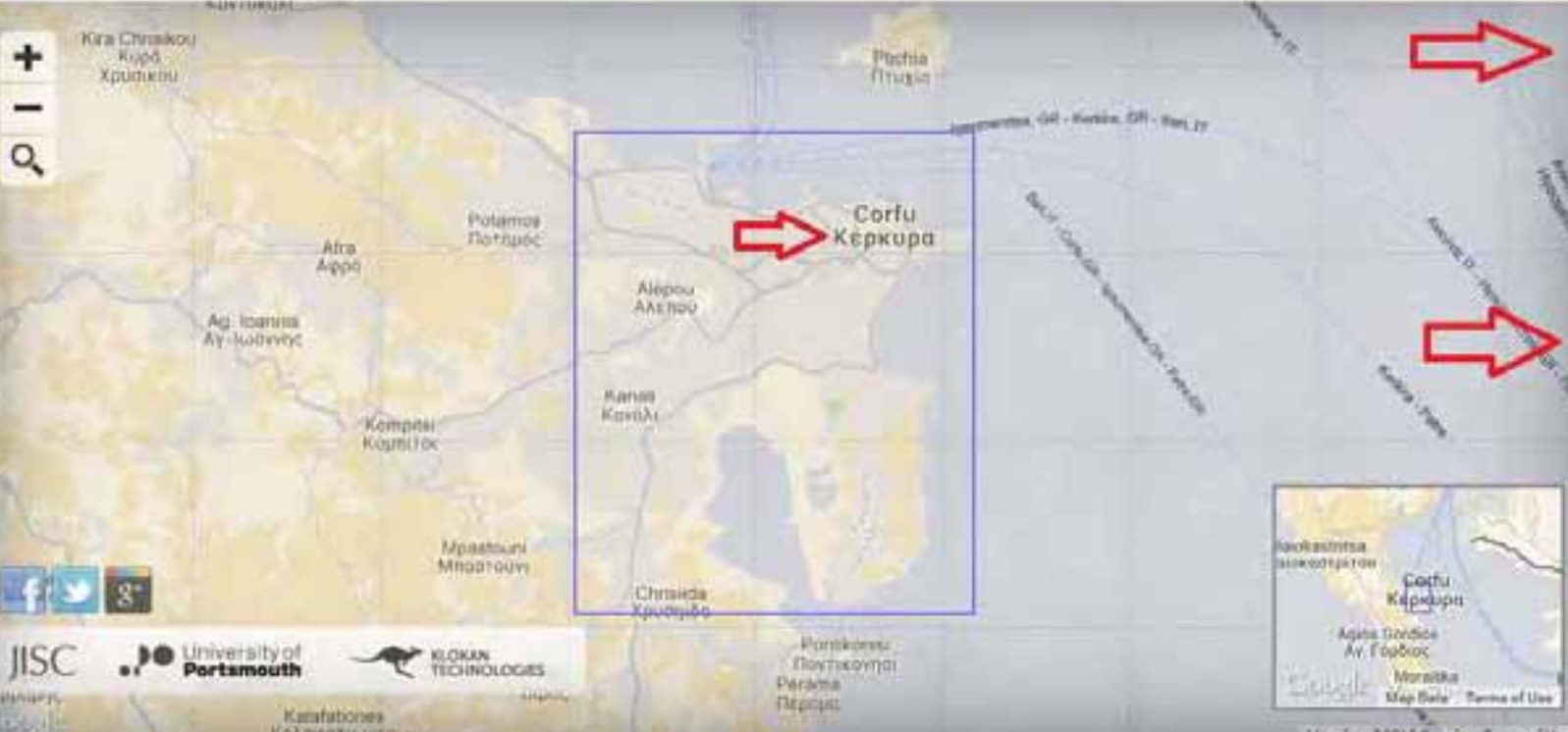




korfu Search


1600 1700 1800 1900 2000

Search Collections Blog About




Instant Search Results

 Plan de la ville de Corfu, assiégée par les Turcs avec 35 000 hommes le 21 août 1714 et extrêmement défendue par le général Schuyrent  
1650-1870 - Sicil. Vues

 Carte de l' Albanie  
1841 -

 Die Ionische oder Siebeninsel Republik  
1818-1830 - Giefisch

 Græciæ  
1817-1845 - St. Doves

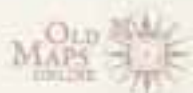
 Heβaλ Thessalia Epipw



JISC University of Portsmouth KLOKAN TECHNOLOGIES

Katafobones





1716

Corfu

**PLAN DE LA VILLE DE CORFU, ASIEGÉE PAR LES TURCS AVEC 35 000 HOMMES LE 21 AOUST. 1716 ET EXTREMEMENT DEFENDUES PAR LE GENERAL SCHUYTENT**

[View this map](#)



Date: 1716-1716  
Date of publication: 1716-1716  
Map scale: 1:125 000  
Creator: Visschers, Nicolaus  
Contributor:  
Publisher: Nicol. Visscher

[More in the catalogue or on the website](#)



IISC | Universitäts- und Landesbibliothek Bonn

Free Stock Photos

Previous Next



Max de Meuse de Corfu, assiégée par les Turcs avec 35 000 hommes le 21 août 1716 et extrêmement défendue par le général Schuytent.

- Carte de l'Albanie 1641
- The Jurembo oder Religionen Regimitt 1639
- Genève 1711
- Helle Thronis Epus



# Conclusion

- Analysis shows - a loss of information
- number of barriers
- optimal to use numeric notations
- map search engines allow limited search possibilities
- toponyms are not validated
- it is necessary to return to the catalogues
- ideal would be to improve full text and full image search
- detailed indexing of each map and its legend
- linking the search of coordinates with the subject description
- the users have to manage with the compromise
- maximum bibliographic record, limited metadata and map search engine

# Thank you for your contribution

- Eva Novotná
- [novotn48@natur.cuni.cz](mailto:novotn48@natur.cuni.cz)
- <http://www.temap.cz>
- <http://www.mapovasbirka.cz>
- <http://www.geobibline.cz/>
- <http://www.staremapy.cz>
- <http://www.oldmapsonline.org>

