



Mapping Movements of Dissent:

Examining the Early Modern World's Complex Networks of Religious Minorities

Amy Larner Giroux and Rosalind J. Beiler

University of Central Florida

James

London August 3rd 86

I have not time to write you more than to send you this word for now. I will write you again soon. I am your affectionate friend James

I have your letter wherein you pretend to give account
How my brother Ralph left what he had but it is for
such that it wants an executor. And its for a letter of
Attorney. If you not think it convenient I will give you
A true copy of the will: therefore I desire you to be for-
getful to me as to send it with all speed: and with all to
give me A most partic Account for you can give A quest
What will come to my share: & you deal generously by
me & will show you your consideration for you trouble
I do not very much desire that my Bro. should leave for much
to an other mans wife: And not wages Related to him
since she did not think him good enough: to be her husband
I do not just had news from her: but for her: but I find
she was forcible to many heart And then to him after
shee shew being a charitable man And I presume her self
to get what belong to his Relations: & I expect she
should make good her title by having his true will sent home
To the laws of England: otherwise she cannot be satisfied what
shee has any right to it: my Bro. would us if he bought too little
of land of his master which cost him twenty pounds: he lay out
thirty pound more for a year work And other Consequence for
Building: therefore I expect shee shall deal fairly and let
us know what comes his share: otherwise I shall give A letter of
Attorney to A husband of mine that comes to many land And want
him to examine the matter for the most time of Remains
you friend And sent David Lloyd



P R I N T

DYNAMIC NETWORKS

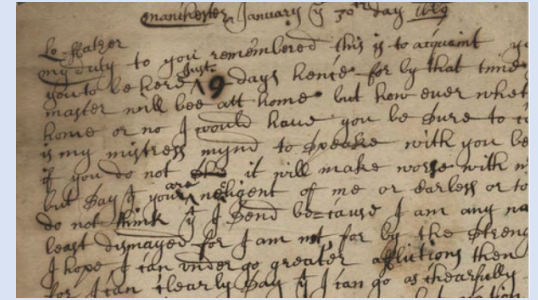
INFORMATION-NETWORKS
& TRAVEL



PRINT – People, Religion, Information Networks, and Travel

SOURCES

- Handwritten letters, 1630 – 1730, ~3,000 letters
- Religious groups: Quakers, Pietists, Anabaptists
- Languages: English, German, Dutch
- Repositories: Pennsylvania, London, Amsterdam, Halle, Berlin



Digitized Images

DATABASE SYSTEM



USERS



Data Table								Id
Nodes	Edges	Configuration	Add node	Add edge	Search/Replace	Import Spreadsheet	Export table	More actions
Id	Label	Interval	Latitude	Longitude	Start Date	End Date	Type	
2	Church Council Of The Flemish ...	<[1644-01-01, 1718-06-26]>	52.370216	4.895168	1644/10/07	1644/10/07	Unique Person/Place	
4	T. Govaerts	<[1644-01-01, 1718-06-26]>	52.370216	4.895168	1644/10/07	1644/10/07	Unique Person/Place	
6	J. Haesbaert	<[1644-01-01, 1718-06-26]>	52.370216	4.895168	1644/10/07	1644/10/07	Unique Person/Place	
8	I. Van Limborch	<[1644-01-01, 1718-06-26]>	52.370216	4.895168	1644/10/07	1644/10/07	Unique Person/Place	
10	G. Lem	<[1644-01-01, 1718-06-26]>	51.338761	6.585342	1648/06/30	1648/06/30	Unique Person/Place	
12	Clergy At Haarlem	<[1644-01-01, 1718-06-26]>	52.387388	4.646219	1648/07/03	1648/07/03	Unique Person/Place	
14	J. Hugaerts	<[1644-01-01, 1718-06-26]>	52.387388	4.646219	1648/07/03	1648/07/03	Unique Person/Place	
16	C. Van Vollenhoven	<[1644-01-01, 1718-06-26]>	52.387388	4.646219	1648/07/03	1648/07/03	Unique Person/Place	
18	J. P. Van Vichtel	<[1644-01-01, 1718-06-26]>	52.387388	4.646219	1648/07/03	1648/07/03	Unique Person/Place	
20	Clergy At Leiden	<[1644-01-01, 1718-06-26]>	52.160114	4.49701	1648/07/07	1648/07/07	Unique Person/Place	
22	C. De Coninck	<[1644-01-01, 1718-06-26]>	52.160114	4.49701	1648/07/07	1648/07/07	Unique Person/Place	
24	J. C. Soonevriert	<[1644-01-01, 1718-06-26]>	52.160114	4.49701	1648/07/07	1648/07/07	Unique Person/Place	
26	J. Kaiser	<[1644-01-01, 1718-06-26]>	52.160114	4.49701	1648/07/07	1648/07/07	Unique Person/Place	
28	J. De Schregel	<[1644-01-01, 1718-06-26]>	52.160114	4.49701	1648/07/07	1648/07/07	Unique Person/Place	
30	G. Lem	<[1644-01-01, 1718-06-26]>	51.338761	6.585342	1648/07/08	1648/07/08	Unique Person/Place	
32	H. Hex	<[1644-01-01, 1718-06-26]>	51.85392	12.043081	1648/12/03	1648/12/03	Unique Person/Place	
34	Government Of Rotterdam	<[1644-01-01, 1718-06-26]>	51.92442	4.477733	1660/02/19	1660/02/19	Unique Person/Place	
36	J. Everling	<[1644-01-01, 1718-06-26]>	49.56751	8.210714	1671/11/02	1671/11/02	Unique Person/Place	
38	J. Seyller	<[1644-01-01, 1718-06-26]>	49.56751	8.210714	1671/11/02	1671/11/02	Unique Person/Place	
40	J. Liechte	<[1644-01-01, 1718-06-26]>	49.56751	8.210714	1671/11/02	1671/11/02	Unique Person/Place	
42	V. Huetwohl	<[1644-01-01, 1718-06-26]>	49.398752	8.672434	1671/12/17	1671/12/17	Unique Person/Place	
44	V. Huetwohl	<[1644-01-01, 1718-06-26]>	49.398752	8.672434	1671/12/17	1671/12/17	Unique Person/Place	
46	Krefeld Congregation	<[1644-01-01, 1718-06-26]>	51.338761	6.585342	1672/01/07	1672/01/07	Unique Person/Place	
48	V. Huetwohl	<[1644-01-01, 1718-06-26]>	49.637708	8.222949	1672/01/01	1672/01/01	Unique Person/Place	
50	J. Clements	<[1644-01-01, 1718-06-26]>	49.637708	8.222949	1672/01/01	1672/01/01	Unique Person/Place	
52	Amsterdam Clergy	<[1644-01-01, 1718-06-26]>	52.370216	4.895168	1672/01/07	1672/01/07	Unique Person/Place	
54	D. Spruijt	<[1644-01-01, 1718-06-26]>	52.370216	4.895168	1672/01/07	1672/01/07	Unique Person/Place	
56	J. Linnings De Jonge	<[1644-01-01, 1718-06-26]>	52.370216	4.895168	1672/01/07	1672/01/07	Unique Person/Place	
58	J. Linnings De Jonge	<[1644-01-01, 1718-06-26]>	52.370216	4.895168	1672/01/07	1672/01/07	Unique Person/Place	



Add column
Merge columns
Delete column
Clear column
Copy data to other column
Fill column with a value
Duplicate column
Create a boolean column from regex match
Create column with list of regex matching groups

Data Table

Data Table								Source
Nodes	Edges	Configuration	Add node	Add edge	Search/Replace	Import Spreadsheet	Export table	More actions
Source	Target	Type	Id	Label	Interval	Weight	Start Date	End Date
2	882	Directed	0	1508	<[1644-01-01, 1718-06-26]>	1.0	1644/10/07	1644/10/07
4	882	Directed	1	1508	<[1644-01-01, 1718-06-26]>	1.0	1644/10/07	1644/10/07
6	882	Directed	2	1508	<[1644-01-01, 1718-06-26]>	1.0	1644/10/07	1644/10/07
8	882	Directed	3	1508	<[1644-01-01, 1718-06-26]>	1.0	1644/10/07	1644/10/07
10	884	Directed	4	1464	<[1644-01-01, 1718-06-26]>	1.0	1648/06/30	1648/06/30
12	886	Directed	5	1473a	<[1644-01-01, 1718-06-26]>	1.0	1648/07/03	1648/07/03
14	886	Directed	6	1473a	<[1644-01-01, 1718-06-26]>	1.0	1648/07/03	1648/07/03
16	886	Directed	7	1473a	<[1644-01-01, 1718-06-26]>	1.0	1648/07/03	1648/07/03
18	886	Directed	8	1473a	<[1644-01-01, 1718-06-26]>	1.0	1648/07/03	1648/07/03
20	888	Directed	9	1473b	<[1644-01-01, 1718-06-26]>	1.0	1648/07/07	1648/07/07
22	888	Directed	10	1473b	<[1644-01-01, 1718-06-26]>	1.0	1648/07/07	1648/07/07
24	888	Directed	11	1473b	<[1644-01-01, 1718-06-26]>	1.0	1648/07/07	1648/07/07
26	888	Directed	12	1473b	<[1644-01-01, 1718-06-26]>	1.0	1648/07/07	1648/07/07
28	888	Directed	13	1473b	<[1644-01-01, 1718-06-26]>	1.0	1648/07/07	1648/07/07
30	890	Directed	14	1473b	<[1644-01-01, 1718-06-26]>	1.0	1648/07/07	1648/07/07
32	890	Directed	15	1473b	<[1644-01-01, 1718-06-26]>	1.0	1648/07/07	1648/07/07
34	890	Directed	16	1473b	<[1644-01-01, 1718-06-26]>	1.0	1648/07/07	1648/07/07
36	890	Directed	17	1473b	<[1644-01-01, 1718-06-26]>	1.0	1648/07/07	1648/07/07
38	890	Directed	18	1473b	<[1644-01-01, 1718-06-26]>	1.0	1648/07/07	1648/07/07
40	892	Directed	19	1463	<[1644-01-01, 1718-06-26]>	1.0	1648/07/08	1648/07/08
42	894	Directed	20	1512	<[1644-01-01, 1718-06-26]>	1.0	1648/12/03	1648/12/03
44	896	Directed	21	1512	<[1644-01-01, 1718-06-26]>	1.0	1648/12/03	1648/12/03
46	898	Directed	22	1433	<[1644-01-01, 1718-06-26]>	1.0	1660/02/19	1660/02/19
48	900	Directed	23	1452	<[1644-01-01, 1718-06-26]>	1.0	1671/11/02	1671/11/02
50	902	Directed	24	1453	<[1644-01-01, 1718-06-26]>	1.0	1671/11/02	1671/11/02
52	904	Directed	25	1453	<[1644-01-01, 1718-06-26]>	1.0	1671/11/02	1671/11/02
54	906	Directed	26	1521	<[1644-01-01, 1718-06-26]>	1.0	1671/12/17	1671/12/17
56	908	Directed	27	1534a	<[1644-01-01, 1718-06-26]>	1.0	1671/12/17	1671/12/17
58	910	Directed	28	1534a	<[1644-01-01, 1718-06-26]>	1.0	1671/12/17	1671/12/17



Workspace 1

Appearance

Nodes Edges



Unique Partition Ranking

#5c8bc0

Apply

Layout

Geo Layout



Run

Geo Layout

Scale	5000.0
Latitude	latitude
Longitude	longitude
Projection	Mercator
Center	<input checked="" type="checkbox"/>
Looping	<input type="checkbox"/>

Scale

Scale size, increase for larger graph (corresponds generally to the virtual radius of the Earth)

Presets... Reset

Graph

Dragging (Configure)




Context

Nodes: 2 (0.14% visible)

Edges: 0 (0% visible)

Directed Graph

Statistics Filters

Settings

Network Overview

Average Degree Run

Avg. Weighted Degree Run

Network Diameter Run

Graph Density Run

HITS Run

Modularity Run

PageRank Run

Connected Components Run

Node Overview

Avg. Clustering Coefficient Run

Eigenvector Centrality Run

Edge Overview

Avg. Path Length Run

Dynamic

Nodes Run

Edges Run

Degree Run

Clustering Coefficient Run



1644

1649

1654

1659

1664

1669

1674

1679

1684

1689

1694

1699

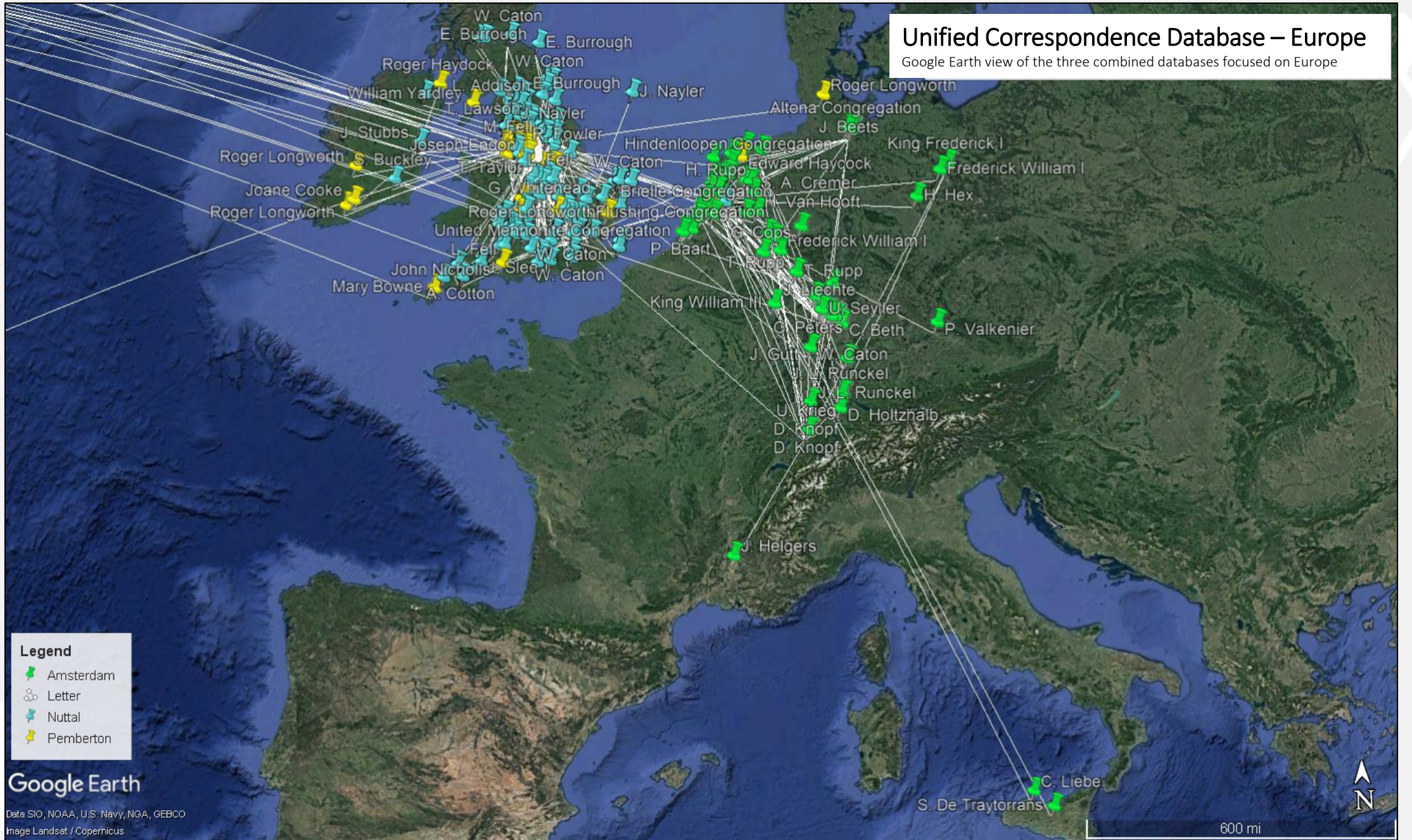
1704

1709

1714

Unified Correspondence Database – Europe

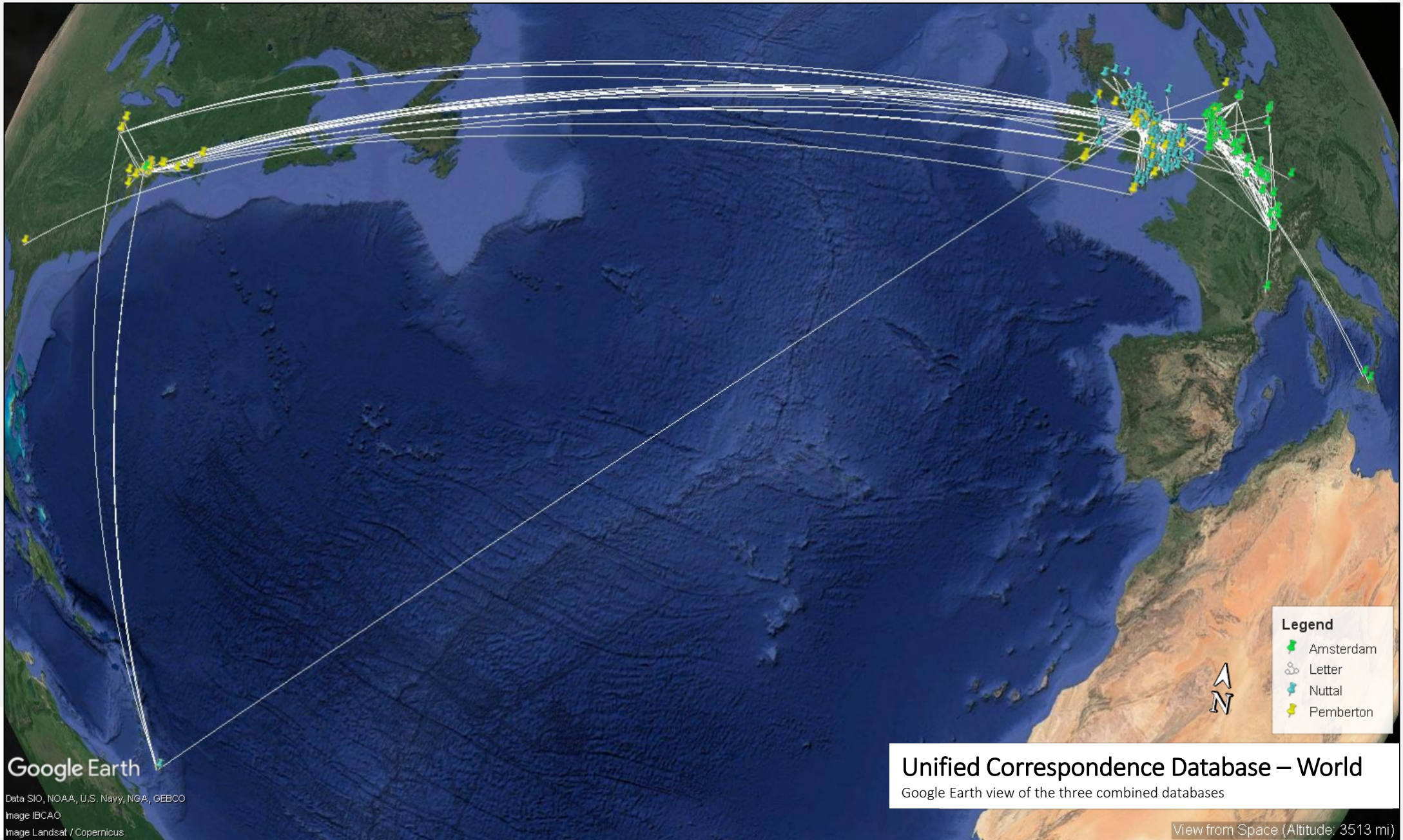
Google Earth view of the three combined databases focused on Europe



Legend

- Amsterdam
- Letter
- Nuttal
- Pemberton

Google Earth
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat / Copernicus



Google Earth

Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image IBCAO
Image Landsat / Copernicus

Legend

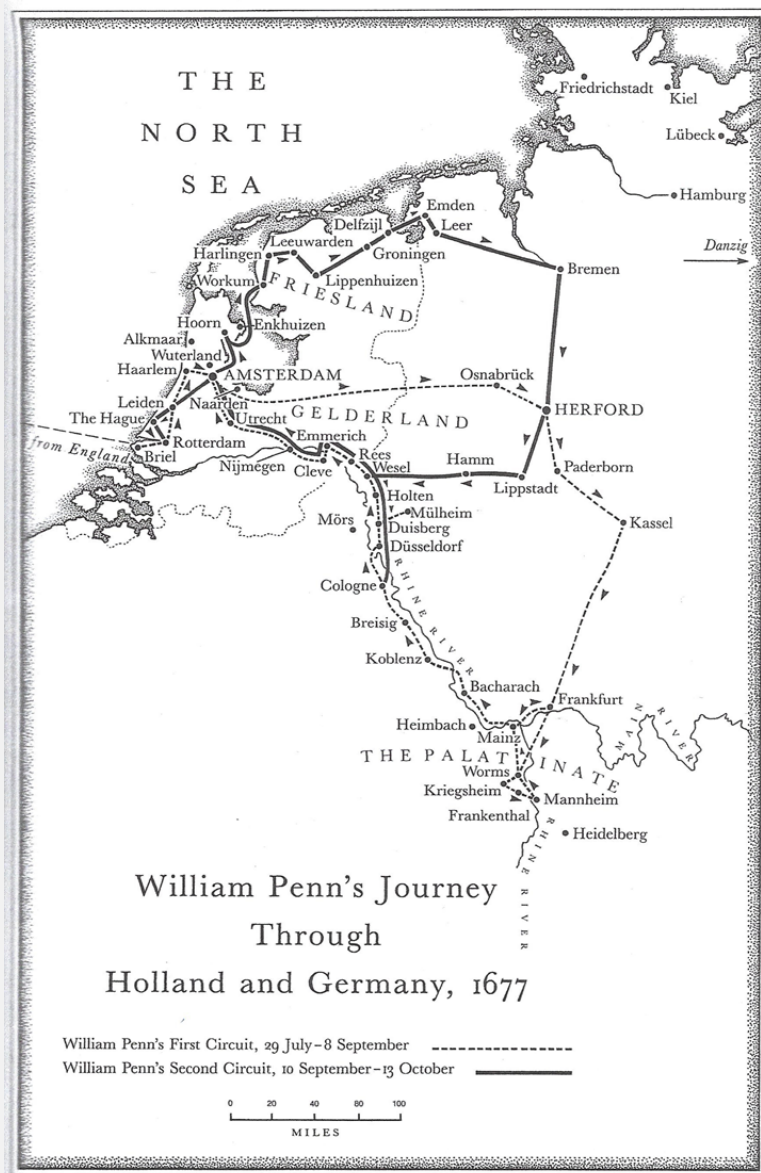
- Amsterdam
- Letter
- Nuttal
- Pemberton

Unified Correspondence Database – World

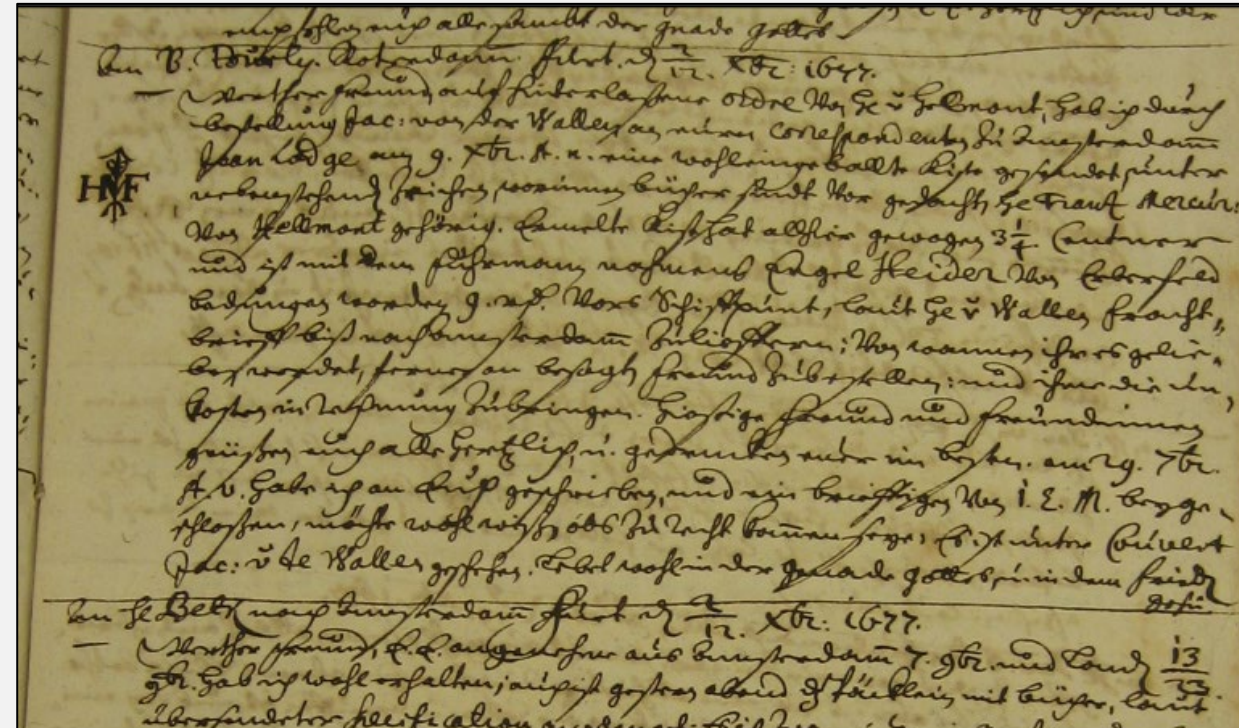
Google Earth view of the three combined databases

View from Space (Altitude: 3513 mi)

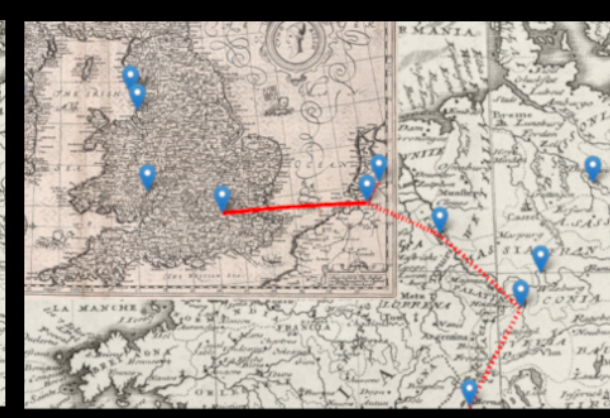
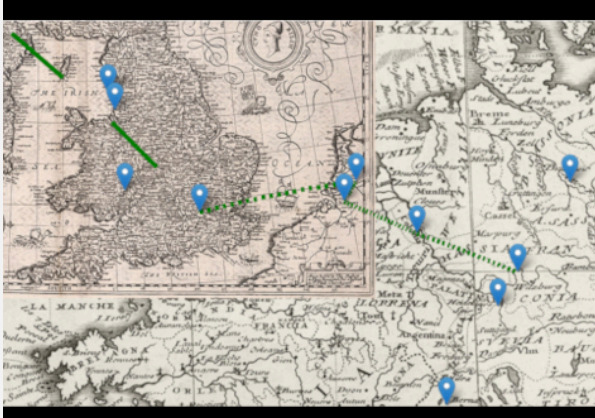
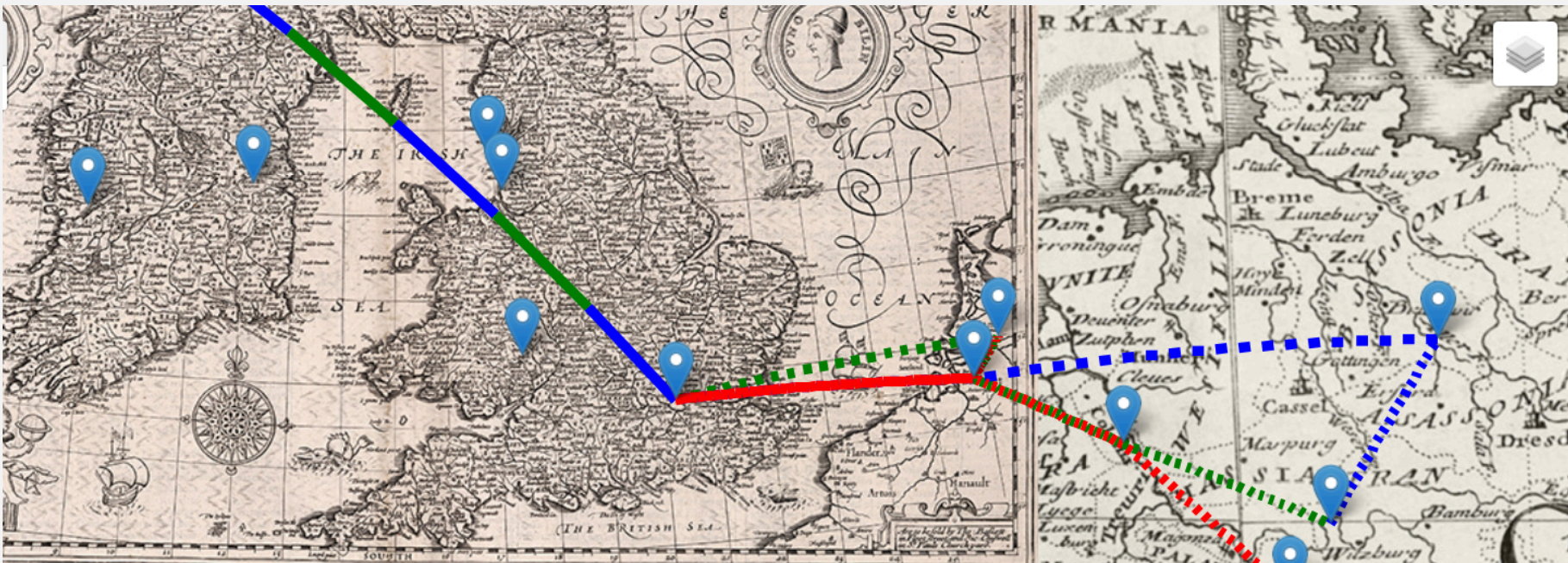
Hidden Nodes - Benjamin Furly example



The Quaker, Benjamin Furly, 17th century, anonymous

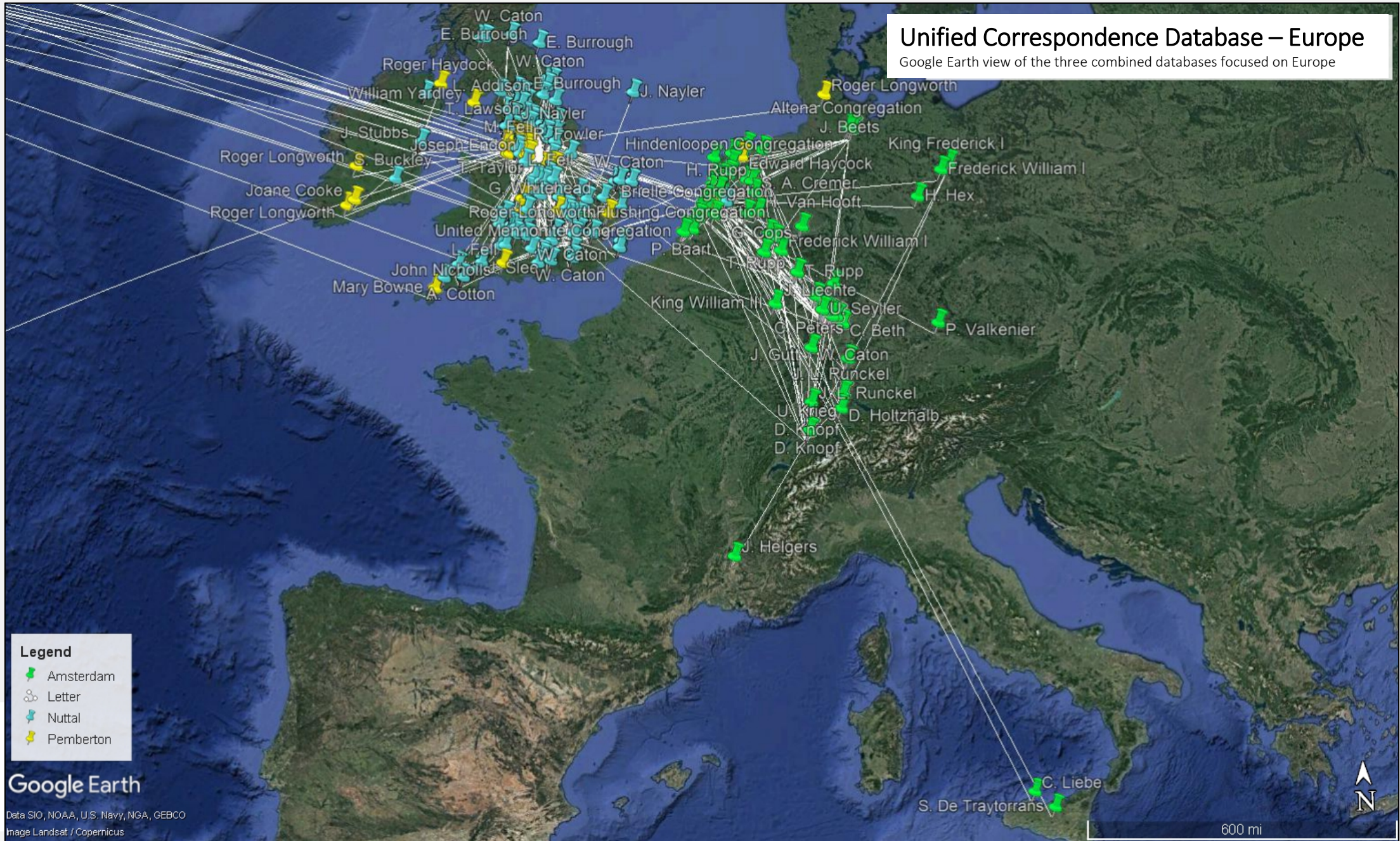






Unified Correspondence Database – Europe

Google Earth view of the three combined databases focused on Europe



Legend

- Amsterdam
- Letter
- Nuttal
- Pemberton

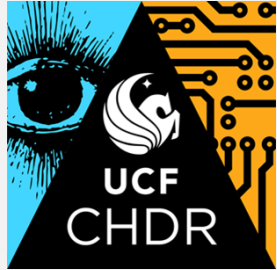
Google Earth

Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat / Copernicus

Collaborators and Partners



Department of History
College of Arts and Humanities
College of Undergraduate Studies

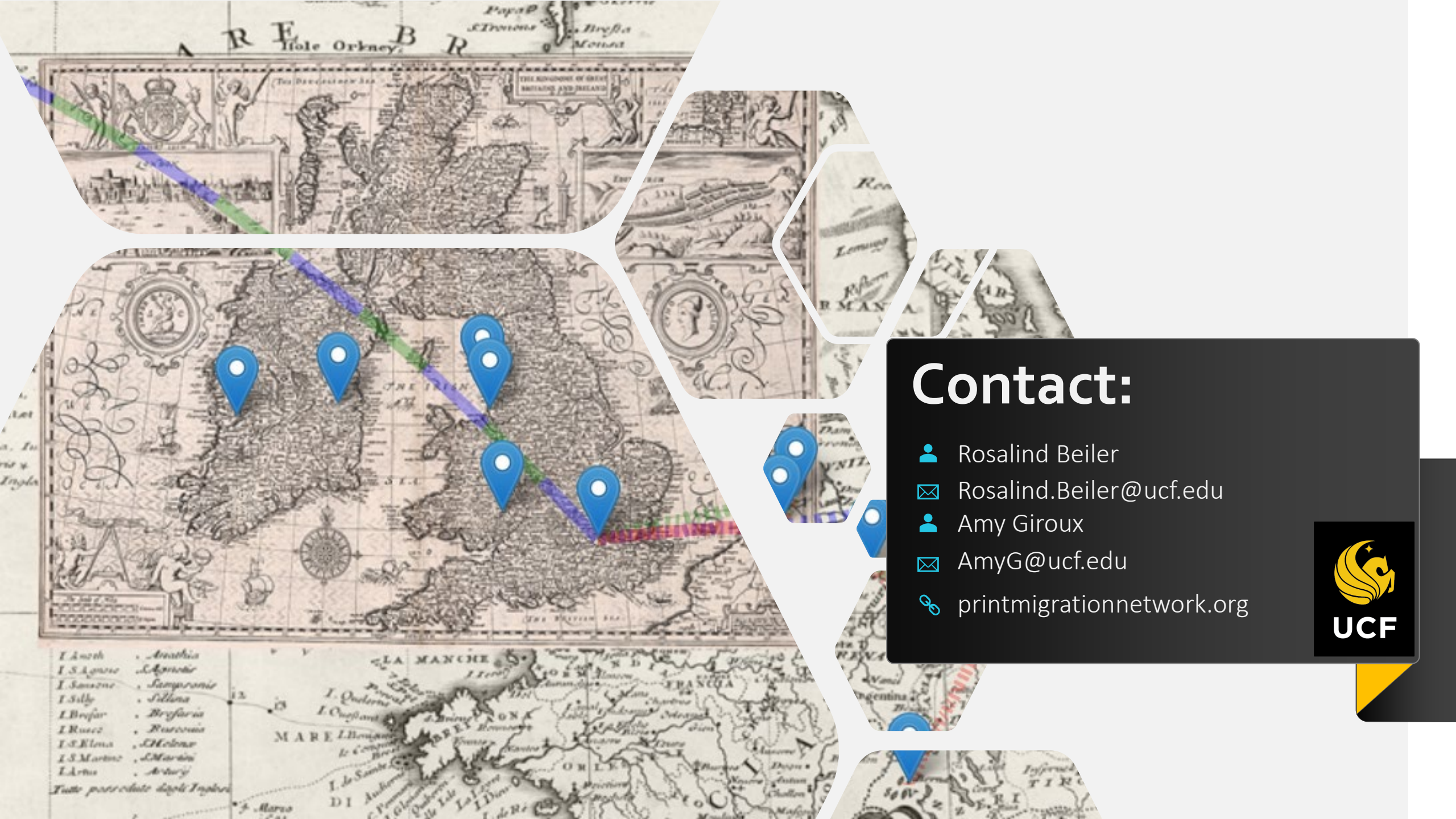


Partners

Historical Society of Pennsylvania – Caroline Hayden, Kaitlyn Pettingill & Vicki Russo
University of Central Florida Libraries – Lee Dotson, Digital Initiatives Librarian

Research Assistants/Student Contributors

Luke Bohmer	Rebecca Lipkin	Dimitri Rivera
Michael Burke	Daniel Martel	Jeremy Rodriguez
Casey Carnes	Cassidy Michonski	Evan Wallace
Drew Fulcher	Rhiannon O'Neil	Casey Wolf
Anna Kephart	Carys O'Neill	Cory Worthington
Da Kim	Onyx de la Osa	Joshua Wozniak
Keith Knorr	Edson Rios	Krystina Yeager



Contact:

-  Rosalind Beiler
-  Rosalind.Beiler@ucf.edu
-  Amy Giroux
-  AmyG@ucf.edu
-  printmigrationnetwork.org

