

# Maps in the Crowd

georeferencing in a non-geographical institute

Martijn Storms | Maps in Libraries, Regensburg, 13 March 2019



Universiteit  
Leiden  
The Netherlands

Discover the world at Leiden University

**MAPS**  
*IN THE*  
**CROWD**



# Introduction

- Map collections at Leiden University Libraries
- Why georeferencing?
- Maps in the Crowd
- Building a crowd
- Dutch Colonial Maps (Royal Tropical Institute)
- Future

# Map collections at Leiden University

- ca. 100,000 maps  
(sheets, including facsimiles, excluding maps in atlases and books)
- of which ca. 3,000 manuscript maps
- ca. 3,500 atlases  
(including print and geographical works)
- ca. 27,000 topographical prints and drawings  
(including history prints)
- 8 globes

# Map collections at Leiden University



- Leiden University's map collection

- Collection Bodel Nijenhuis
- Collections Vossius, Von Siebold, Van Keulen, Wieder, Koeman, etc.



- Royal Tropical Institute (KIT)

- Colonial collection
- Modern collection
- Collection Coomans-Eustatia



- Royal Netherlands Institute for Southeast Asian and Caribbean Studies (KITLV)



# Why georeferencing?

← → ↻ ① Niet beveiligd | leiden.georeferencer.com/api/v1/geosearch ☆ 🌐 ⋮

Attributes 🗨 Timeline 🕒

België - Belgique Deutschland Česko Slovensko Ukraine

Portugal Morocco Algeria

Georgia Armenia Azerbaijan Syria Iraq Kuwait

Al Basrah al Qadima

BARBARI AFRICA

Nieuwe paskaart van de Midde... 1708

Gambar Benoewa Europa. 1875

Europa : Delfstoffen [D] 1956

Carte des Côtes Occidentales d... 1775

Nette afteekening van de Golf ... 1720

Een gedeelte van de Spaanse Z... 1720

De kust van Egipten en Barba... 1714

De Westkust van Europa van T... 1720

Afteekening van Valence Catal... 1720

Carte des Côtes Occidentales d... 1775

Nieuwe platte paskaert strekk... 1710

De kusten van Itaalien van 't ei... 1720

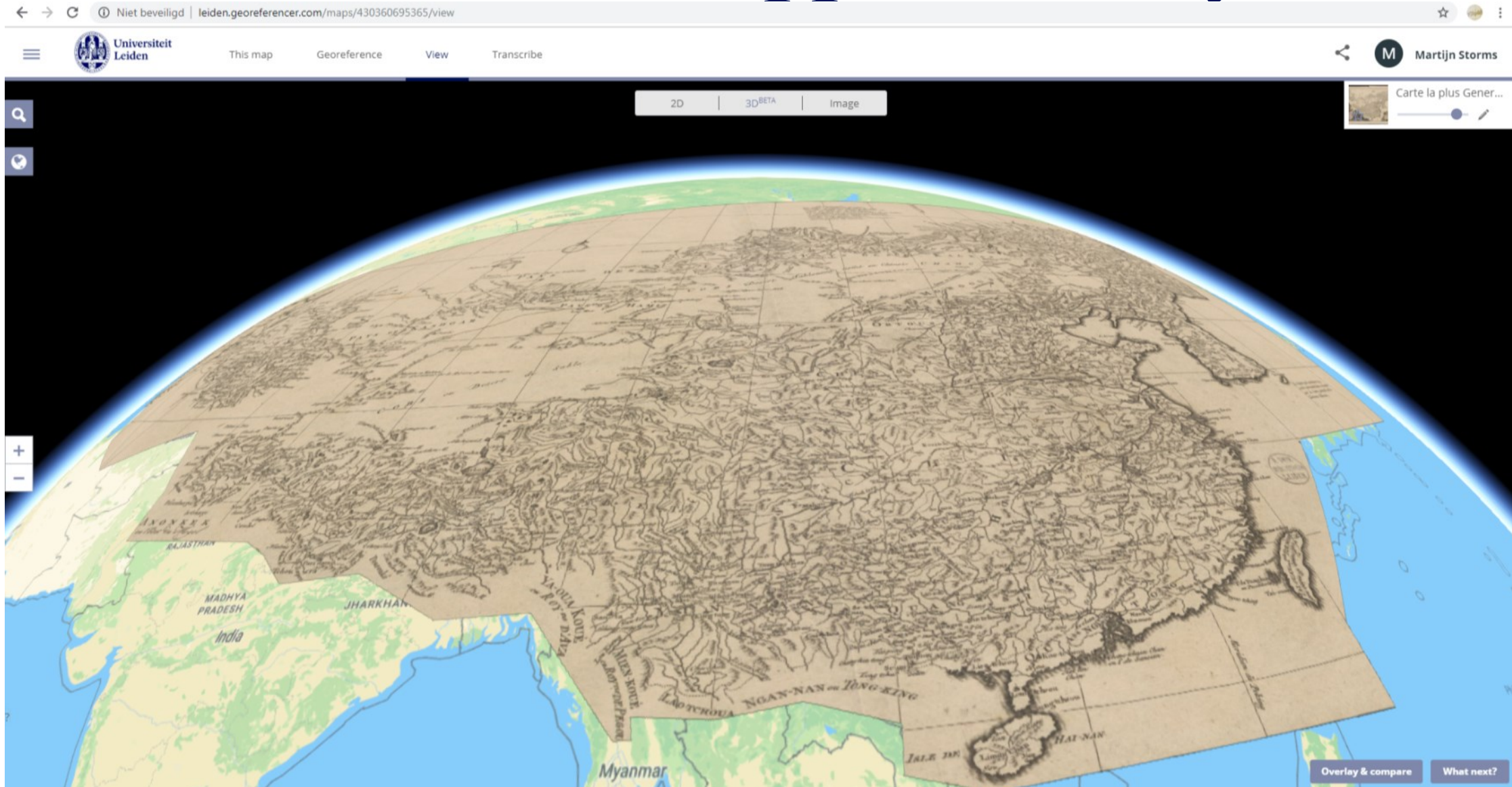
Een gedeelte van de kust van B... 1720

**Nieuwe paskaart van de Middelanse Zee**  
Christoffel Middaghten  
Gerard van Keulen  
1708

Georeferencer Viewer



# The Georeferencer application by Klokan



# Maps in the Crowd

- 2015: Maps in the Crowd 1.0:
  - 393 manuscript charts of the Van Keulen collection
- 2016: Maps in the Crowd 2.0:
  - Over 6,678 maps of the Netherlands East Indies of the KITLV collection
- 2017: Maps in the Crowd 3.0:
  - 1,096 maps of the Caribbean, largely of the Bodel Nijenhuis collection
- 2018: Maps in the Crowd 4.0:
  - 301 maps from various atlases related to Asia



# 1.0: Van Keulen Collection

- 59 x 99 cm
- Pre-printed compass lines
- Manuscript
- 1704-1755
- 'Original' archive copies



*Een gedeelte van de kust van Brazilia.*  
Amsterdam: Gerard van Keulen, c. 1720  
(UBL, COLLBN 003-10-032)





# 2.0: KITLV Collection

[Gerret Pieter Rouffaer], *Sketch map of the island of Adonara*, [1910] (KITLV D E 44,5)



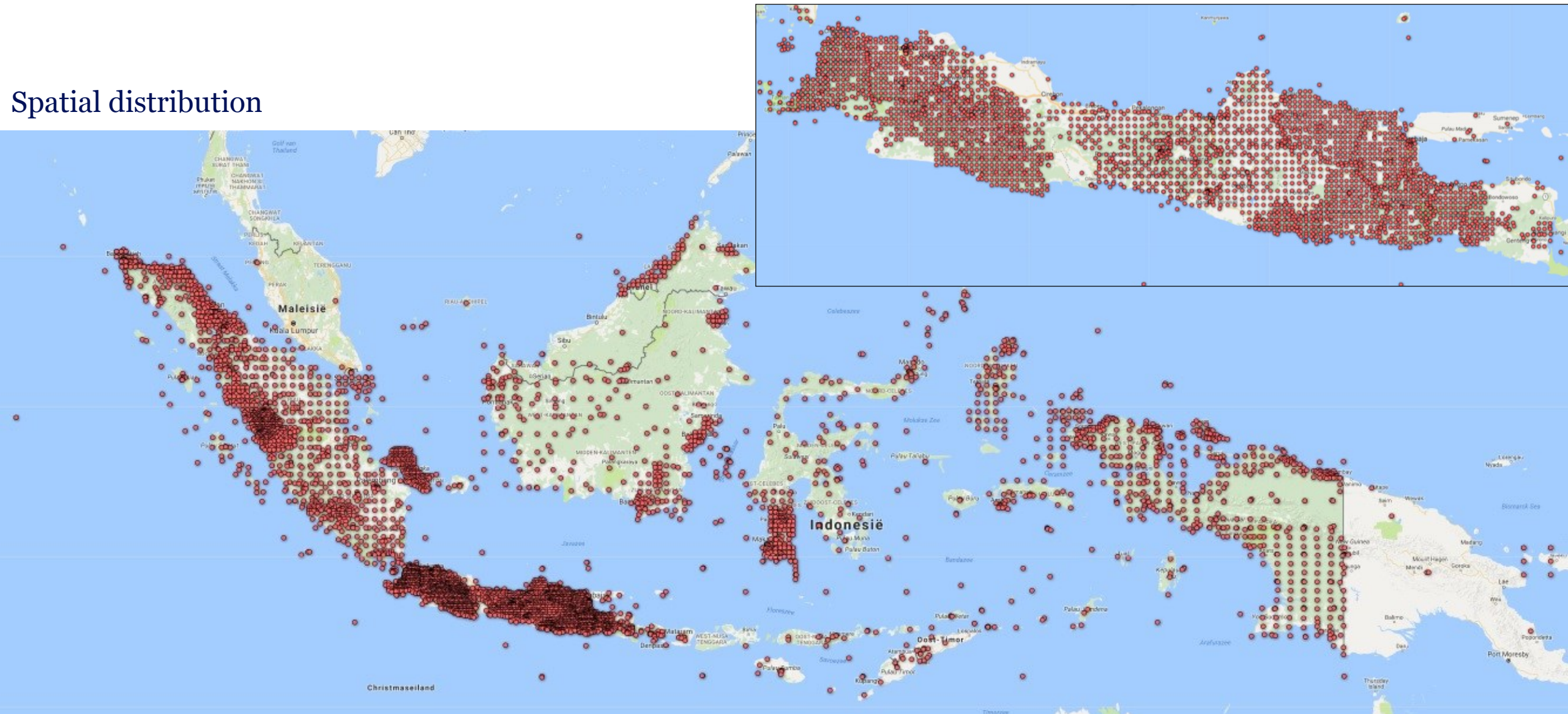
Gerret Pieter Rouffaer  
(1860-1928)





# 2.0: KITLV Collection

Spatial distribution





# 3.0: Caribbean maps





# 4.0: Asian atlases



# Building a crowd: PR

← → ↻ Niet beveiligd | blogs.library.leiden.edu/mapsinthecrowd/

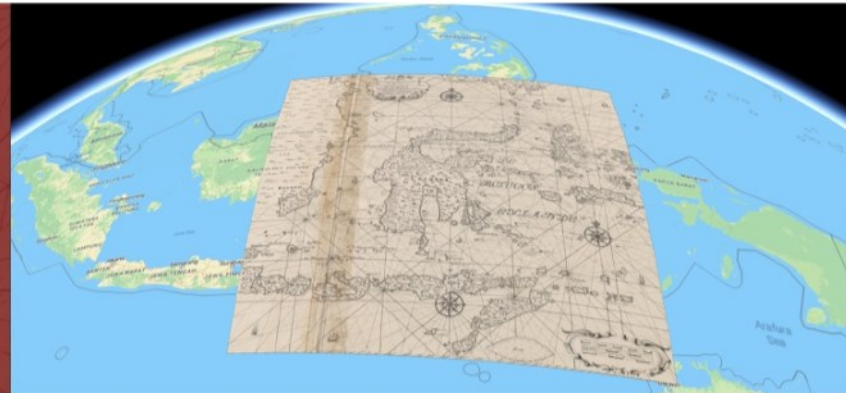


## Leiden University: Maps in the Crowd

Georeferencing at Special Collections

Zoeken

**MAPS  
IN THE  
CROWD**



[Home](#) [Results](#) [Instructions](#) [In the media](#) [Previous projects](#) [Contact](#)

LINK



Geplaatst op 9th februari 2016 | 2 reacties

**Place the maps of Leiden University  
Libraries on their right location!**



MEEST RECENTE BERICHTEN

- Place the maps of Leiden University Libraries on their right location!
- A new year (2018), a new upload for Leiden Georeferencer!
- Caribbean maps: 100%!
- Beware of inset maps!
- Maps in the Crowd goes Caribbean: new maps available!



# Building a crowd: PR

**UBLeiden** @ubleiden Volgen

Wow! De helft van de historische zeekaarten is gekoppeld aan GoogleMaps. Dank @vrijwilligers! [bit.ly/1JBqy2r](http://bit.ly/1JBqy2r)



RETWEETS 2 VIND-IK-LEUK 1

03.14 - 28 aug. 2015

**UBLeiden** @ubleiden Volgen

Unbelievable! All 393 maps are georeferenced in two weeks time! Many thanks to all participants!



RETWEETS 3 VIND-IK-LEUK 3

**UBLeiden** @ubleiden Volgen

Stagiair Jonathan Bos start met georeferentieproject Maps in the Crowd: ontsluiten 7000 kaarten KITLV via crowdsourcing



RETWEETS 3 VIND-IK-LEUK 5

03.30 - 26 jan. 2016 vanuit Leiden, Nederland

**UBLeiden** @ubleiden Volgen

Maps in the Crowd @UniLeiden. Join project unlocking historical maps from Dutch East Indies [bit.ly/1Qwermw](http://bit.ly/1Qwermw)



RETWEETS 6 VIND-IK-LEUK 2

**UBLeiden** @ubleiden Volgen

Maps in the Crowd. 3% of all KITLV-maps have been georeferenced. Just 6449 to go! Join us! [bit.ly/20sjfyx](http://bit.ly/20sjfyx)



RETWEETS 12 VIND-IK-LEUK 14

08.53 - 23 feb. 2016 vanuit Leiden, Nederland

**Asian Library Leiden** @AsianLibraryNL Volgen

Join @ubleiden 's georeferencing project 'maps in the crowd' ! [youtu.be/zZ8ihW0fmdw](http://youtu.be/zZ8ihW0fmdw) #asiainleiden



Maps in the Crowd  
Martijn Storms and Michiel van Groesen explain why the project Maps in the Crowd is important for education and research. Join our georeferencing project at ... [youtube.com](http://youtube.com)

VIND-IK-LEUK 1

05.30 - 8 mrt. 2016

**UBLeiden** @ubleiden Volgen

Vanmiddag geslaagd inlooptje Maps in the Crowd. Studenten en medewerkers met hulp Maps-team zelf aan de slag.



**UBLeiden** @ubleiden Volgen

Vanmiddag geslaagde actie project Maps in the Crowd in Café Ubi. Studenten georeferencen kaarten Nederlands Indië. [pic.twitter.com/1X80Wu3uV](http://pic.twitter.com/1X80Wu3uV)

**Kurt De Belder** @KurtDeBelder Volgen

Pres. Joko Widodo examines Maps in the Crowd & materials from @UBLeiden special collections [library.leiden.edu/news/president](http://library.leiden.edu/news/president)



RETWEETS 11 VIND-IK-LEUK 6

07.49 - 22 apr. 2016

**UBLeiden** @ubleiden Volgen

Maps in de Crowd - Cariben gestart. Publiek kan meehelpen om de 1100 Caribische kaarten te ontsluiten. Interesse? [bit.ly/2nspycl](http://bit.ly/2nspycl)



RETWEETS 4 VIND-IK-LEUK 1

**UBLeiden** @ubleiden Volgen

Op blog Maps in the Crowd-Cariben vertelt Martijn Storms, conservator Cartografie, over instinkers als inzetkaartjes [bit.ly/2nApoMK](http://bit.ly/2nApoMK)

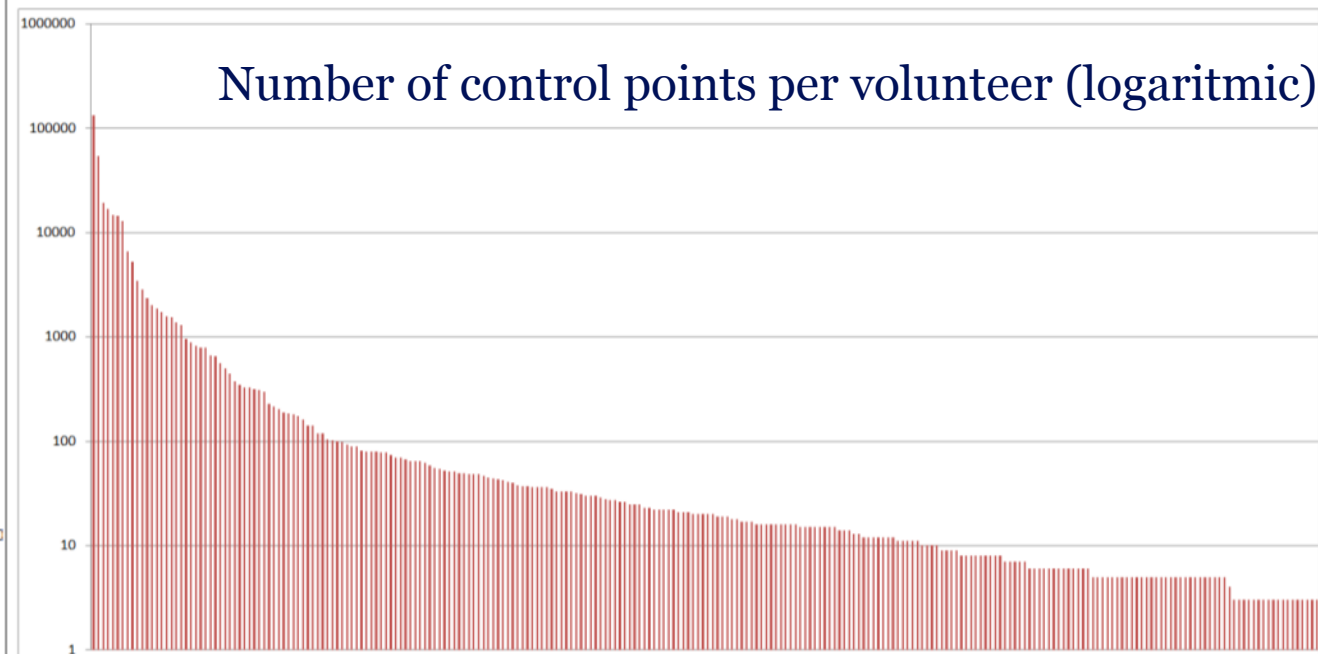
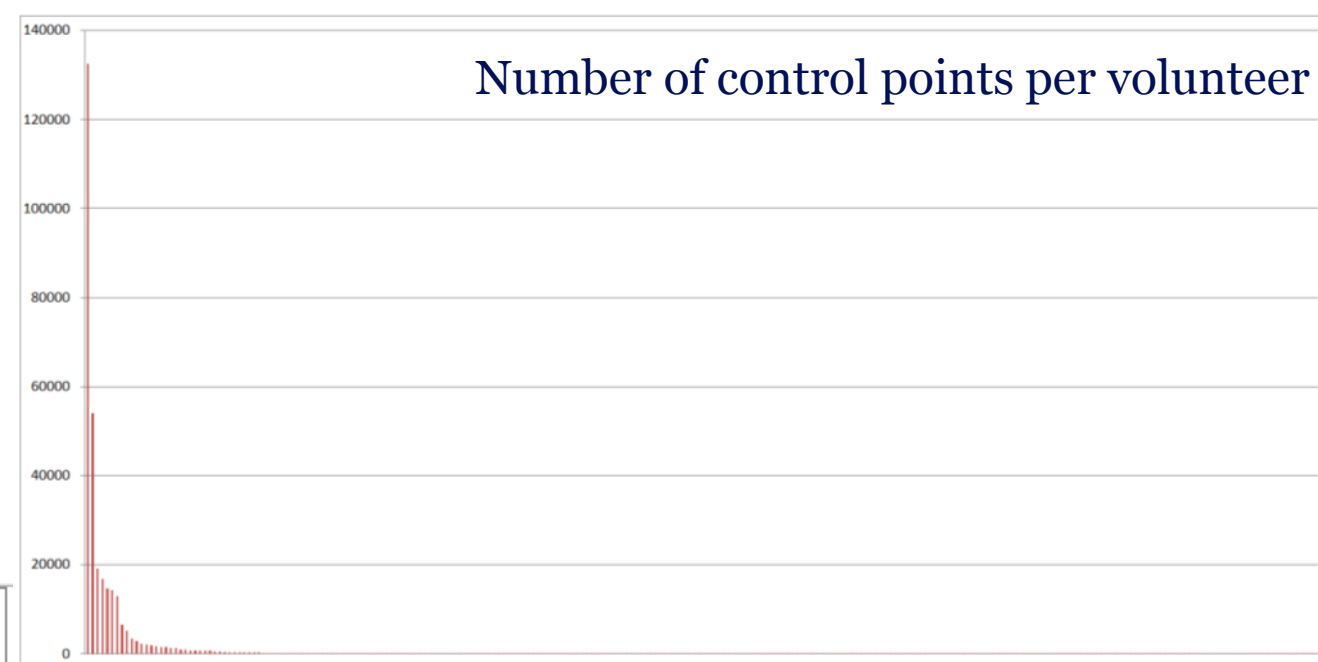
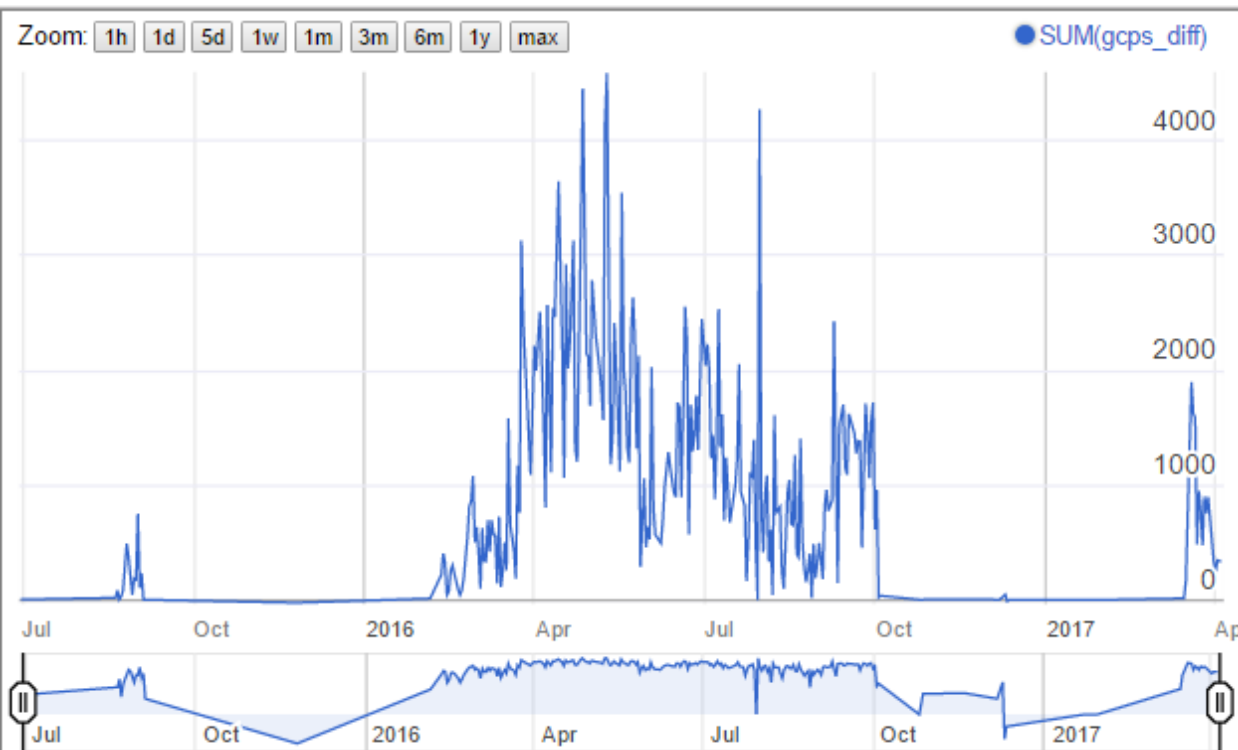






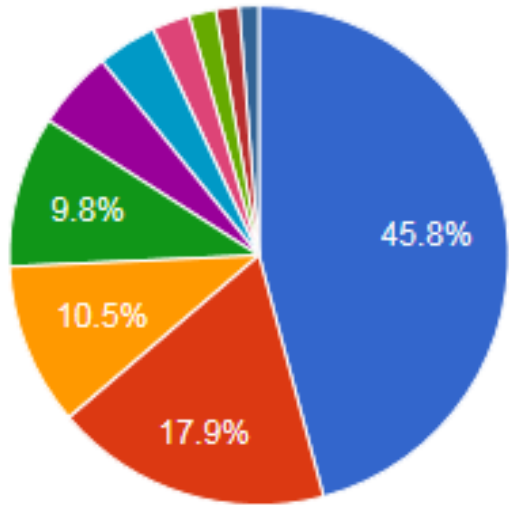
# Building a crowd

## Activity timeline





# Building a crowd



- Casper
- Jessews
- Els Koeneman
- CatherineLee
- Manolis Mich...
- Arjen Haayman
- Vera D Dam...
- YaelM
- Floris Keehnen
- Richard van...

	Name	Control points
1	Casper	1677
2	Jessews	656
3	Els Koeneman	385
4	CatherineLee	358
5	Manolis Michailou	187
6	Arjen Haayman	141
7	Vera D Damayanti	89
8	YaelM	64
9	Floris Keehnen	55
10	Richard van Leeuwen	47





# Building a crowd



	Name	Control points
1	Carl Mierop	130.285
2	k.dusseldorp@hccnet.nl	50.009
3	Michael Maseda	18.541
4	Heleen Hayes	17.420
5	Roderik van Trignt	14.217
6	Reinoud	13.768
7	bert immerzeel	13.738
8	Aale van der Veen	6.695
9	Michael Ammon	5.248
10	Martijn Lens	3.398





# Dutch Colonial Maps (Royal Tropical Institute)

## maps.library.leiden.edu

Universiteit Leiden

By Location Catalogue [Nederlandse versie](#)

oeboed Indonesia (Indonesia)

Tip: You can also search by names of rivers, mountains, regions etc.

### Search results (Geographical)

1. Choose location

1 locations match your query. Make a choice.

Location	Area	Type
1. Oeboed (Ubud)	Bali	POPULATED PLACE

Page: 1

2. Choose map

Oeboed, Bali (Ubud) POPULATED PLACE

142 results Page 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | Sort by **Scale, ascending** [New search](#)

Refine [Reset](#)




- < 1800 (5)
- 1800-1850 (3)
- 1850-1900 (19)
- 1900-1950 (112)
- >= 1950 (3)
- Unknown (0)

Type of map

- Topographic (60)
- City map (0)
- Thematic (73)
- Nautical (9)
- Building (0)
- Unknown (0)

Scale

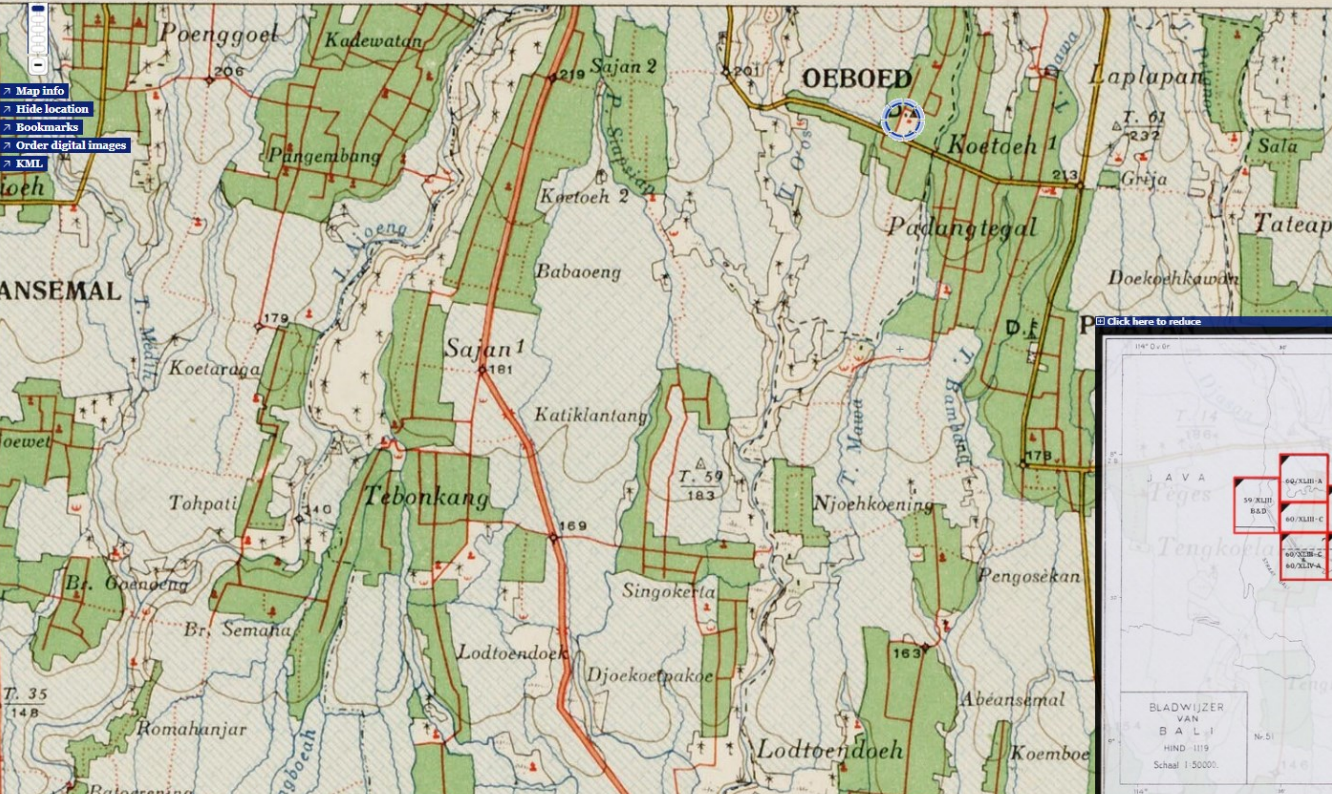
- < 1:110.000 (0)
- 1:10K-1:50K (0)
- 1:50K-1:100K (2)
- 1:100K-1:500K (14)
- 1:500K-1:2M (16)

	Name: 04576-20 Scale: 1:50000 Type: topographic maps Year: 1925	
<input type="checkbox"/> Description	<input type="checkbox"/> View the map	<input type="checkbox"/> Order digital images
	Name: 04582-20 Scale: 1:50000 Type: topographic maps Year: 1943	
<input type="checkbox"/> Description	<input type="checkbox"/> View the map	<input type="checkbox"/> Order digital images
	Name: 09227 Scale: 1:200000 Type: nautical charts Year: 1908	

Niet beveiligd | maps.library.leiden.edu/cgi-bin/iipview?krtid=3565&name=04576-20.JPG&marklat=-8.5055&marklon=115.262&sid=j435k44574328&seq=2&serie=1&lang=1&ssid=&resstr=0&svid=343654&disp=2048&dispy=1005...

opgenomen door den Topografischen dienst in 1923.

Blad 105 A.



Map info  
Hide location  
Bookmarks  
Order digital images  
KML

Overview

BLADWIJZER VAN BALI HIND 1119 Schaal 1:50000



# Future

Universiteit Leiden Catalogue

NEW SEARCH FIND DATABASES FIND E-JOURNALS LIBRARY HOME ACQUISITIONS ASK A LIBRARIAN ...

Sign in Menu

Leiden University Libraries Digital Collections

www.oldmapsonline.org/en/Leiden#bbox=4.458926823730469.52.143552410174266.4501513323730468.52.176385382028116&q=&date\_from=0&date\_to=9999&scale\_from=8&scale\_to=...

OLD MAPS ONLINE

Search About News Mobile Get involved

Valkenburg T DUYFRAK Leiden Leiderdorp

Maps of Leiden

Share

- Polder Marendijk, gemeente O... 1861-1932
- Plattegrond der Stadt Leyden**
- Vereenigde Bosch- en Gasthuis... 1859-1903
- Polder Marendijk, gemeente O... 1861-1932
- Rodenburger en Cronsteinsch... 1859-1880
- Slagh of Groote en Kleine Stad... 1858-1948
- Pesthuispolder, gemeente Oeg... 1858-1932
- Kikkerpolder, gemeente Oegst... 1861
- Kaart van het Katwijksche kanaal 1800
- Groote polder [Grote polder], g...

Katwijk Leiden

ZOETERWOUDE RIJNDIJK

# Thank you for your attention!



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**MAPS**  
*IN THE*  
**CROWD**

