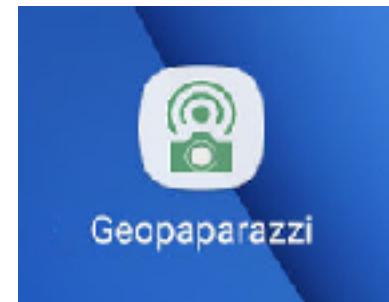


PART 1: GEOPAPARAZZI



Geopaparazzi

Peter Heerink
peterheerink@gmail.com

Geopaparazzi Reference Manual
HydroloGIS S.r.l. feedback@geopaparazzi.eu Version 5.3.0, 2017 05 28

<http://geopaparazzi.github.io/geopaparazzi/>

Belangrijkste doel van dit tool

- Past in je zak en beschikbaar indien nodig voor
 - Datacollectie
 - Geo-referenced formulieren en foto's
 - GPS tracking
 - Eenvoudige export van datacollectie
 - Kaartbeeld voor navigatie (online en offline)
- Alleen beschikbaar voor Android
- Kaart
 - Raster & Vector basiskaarten
 - Spatialite overlay

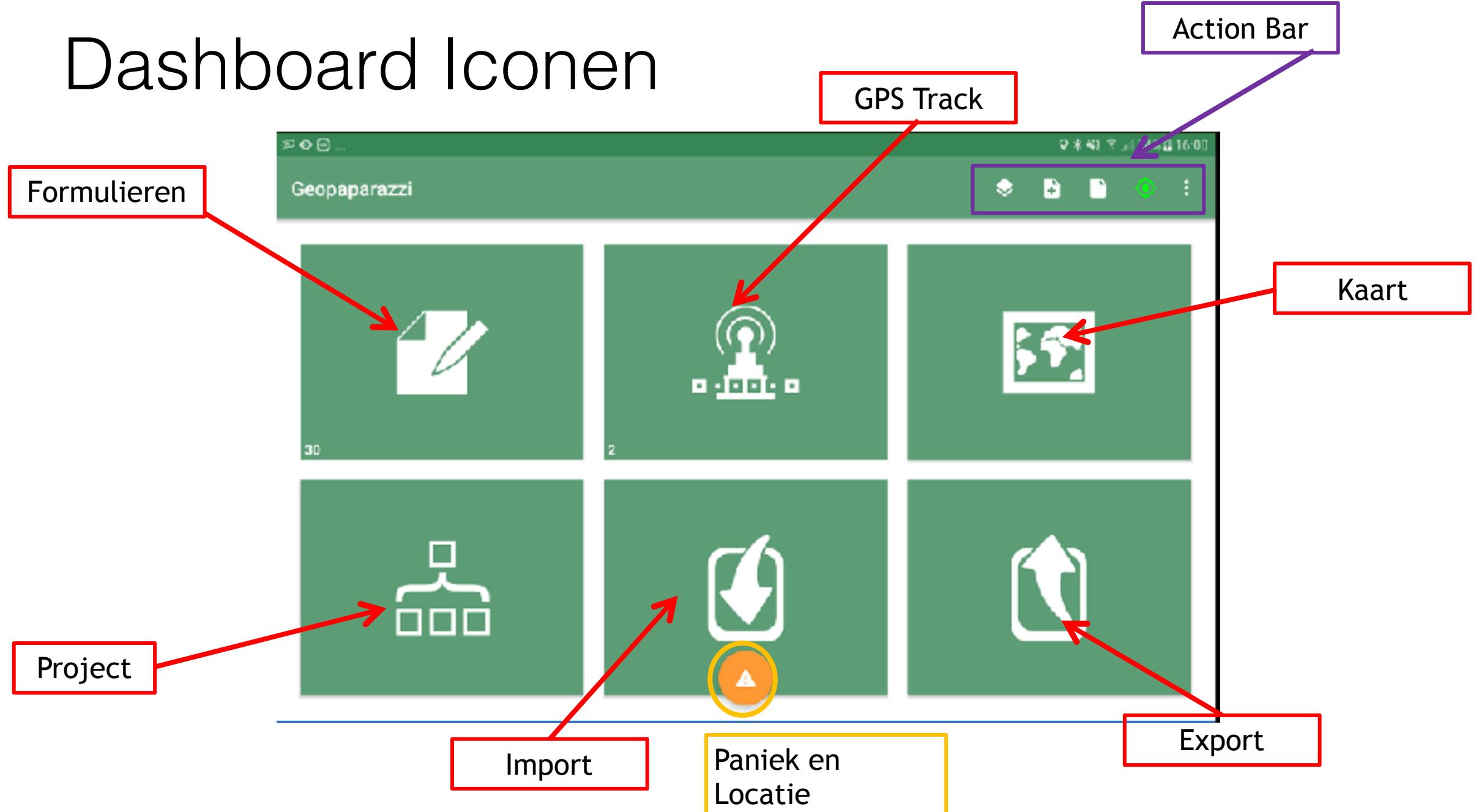
Installatie

- Google play
 - <https://play.google.com/store/apps/details?id=eu.hydrologis.geopaparazzi>
- Github
 - <https://github.com/geopaparazzi/geopaparazzi/releases>



http://geopaparazzi.github.io/geopaparazzi/#_installation

Dashboard Iconen

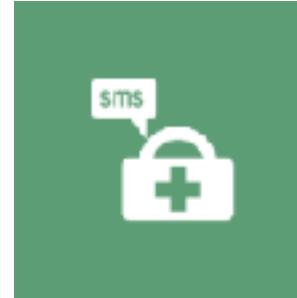


<http://geopaparazzi.github.io/geopaparazzi/>

the panic button

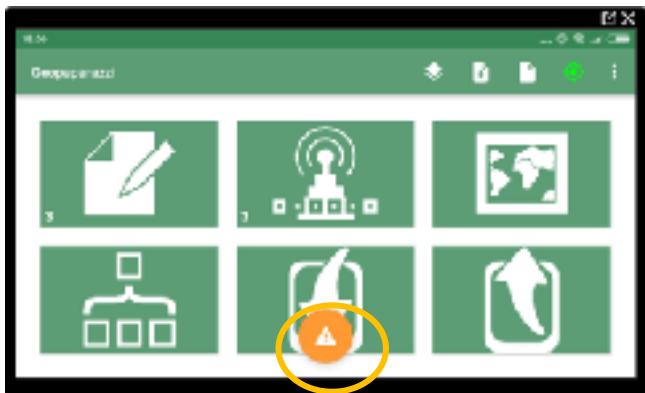
Paniek knop

- Instellen via instellingen
- Stuur
 - Help bericht en locatie

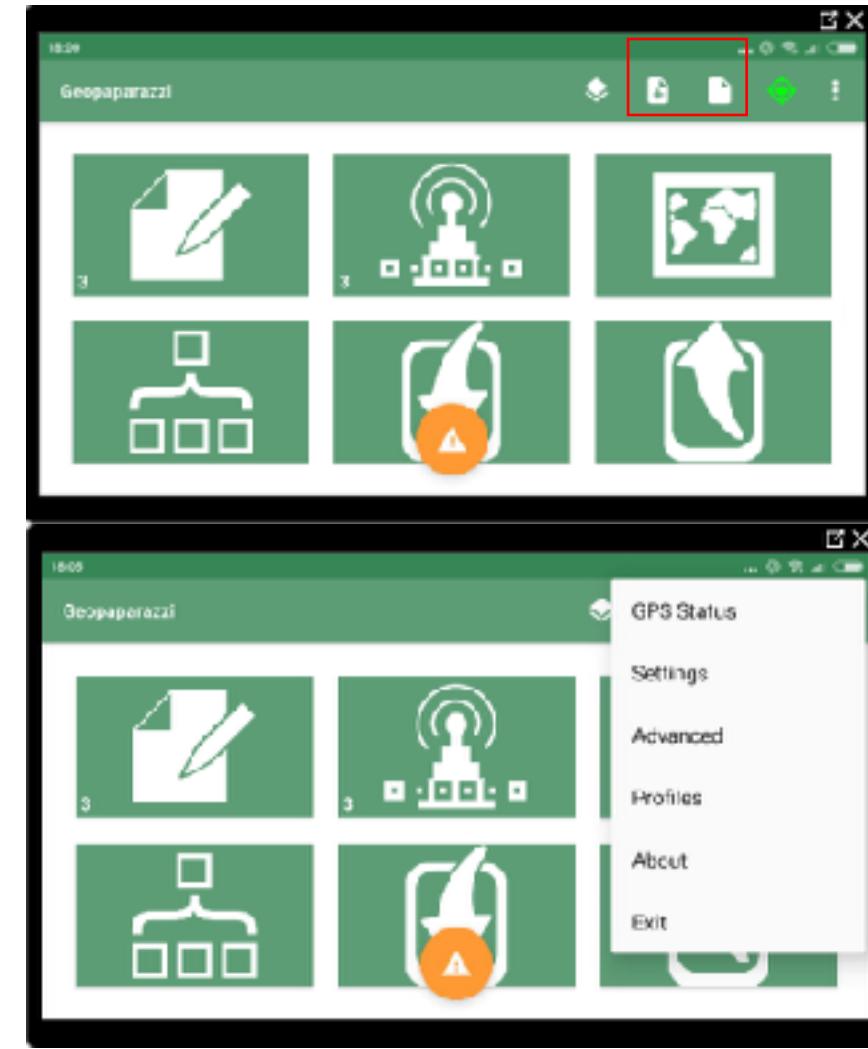


- Alleen locatie

of stuur alleen de GPS positie



Dashboard Iconen



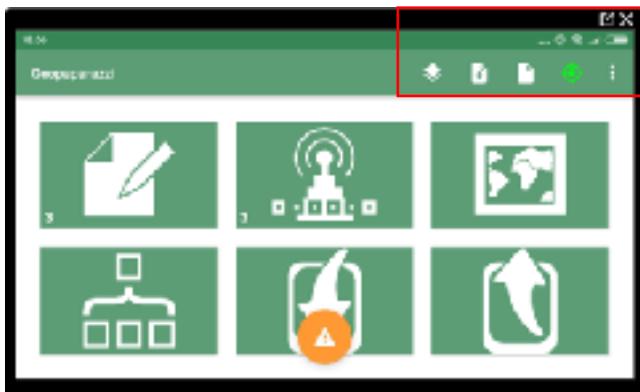
Extra Menu Icons

Action Bar Iconen

Instellen Basiskaart



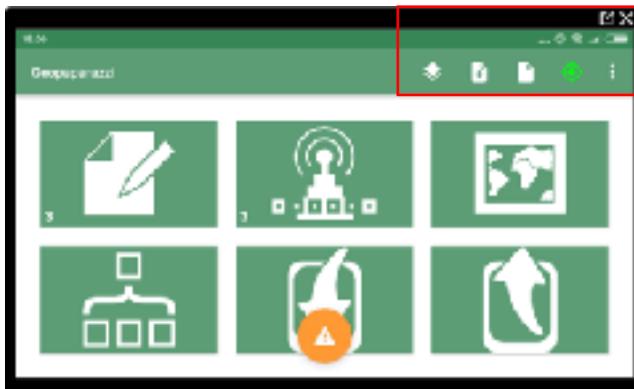
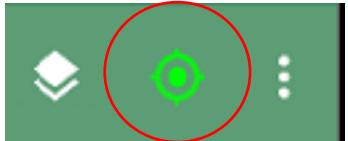
- Mapforge Map (.map)
- Mapurl (WMS capabilities)
- MBTiles (.mbtiles)
- Rasterlite 2



[http://geopaparazzi.github.io/geopaparazzi/
#_select_tile_source](http://geopaparazzi.github.io/geopaparazzi/#_select_tile_source)
http://geopaparazzi.github.io/geopaparazzi/#_basemaps_2

Dashboard Iconen

Kaart en GPS status



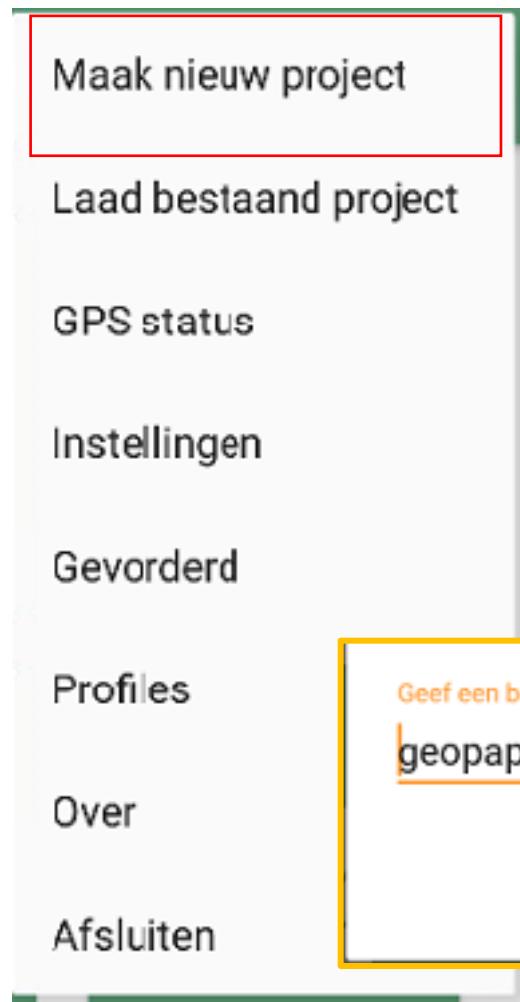
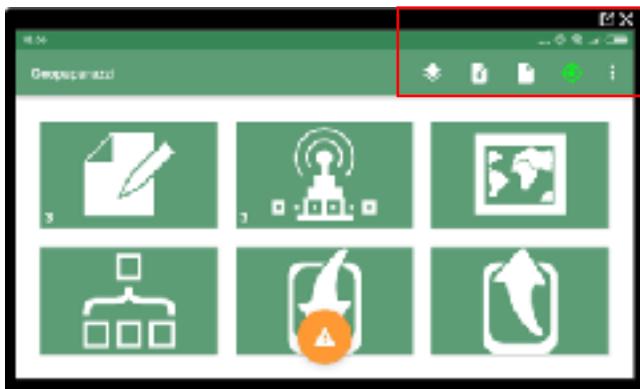
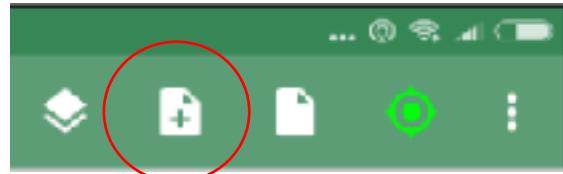
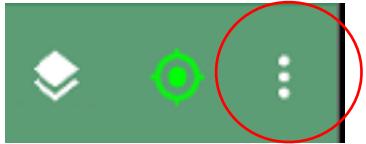
- Rood = GPS is uit
- Oranje = GPS is aan maar geen fix
- Groen = GPS heeft fix, geen log
- Blauw = GPS heeft fix, maakt log



<http://geopaparazzi.github.io/geopaparazzi/>

create a new project

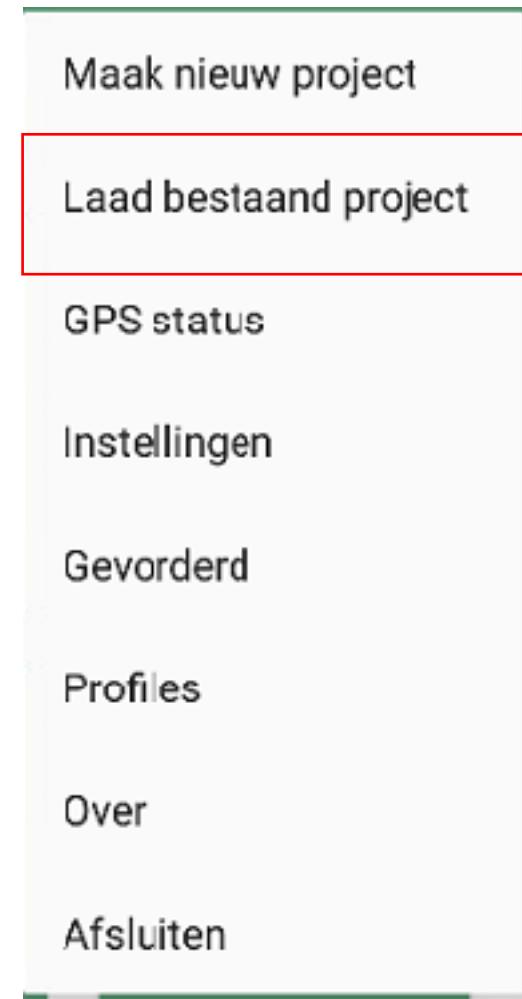
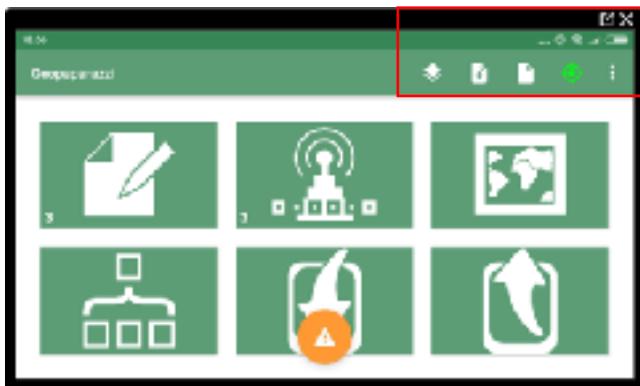
Dashboard Iconen



- .gpap
- Spatialite database

[http://geopaparazzi.github.io/geopaparazzi/
load an existing project](http://geopaparazzi.github.io/geopaparazzi/#load an existing project)

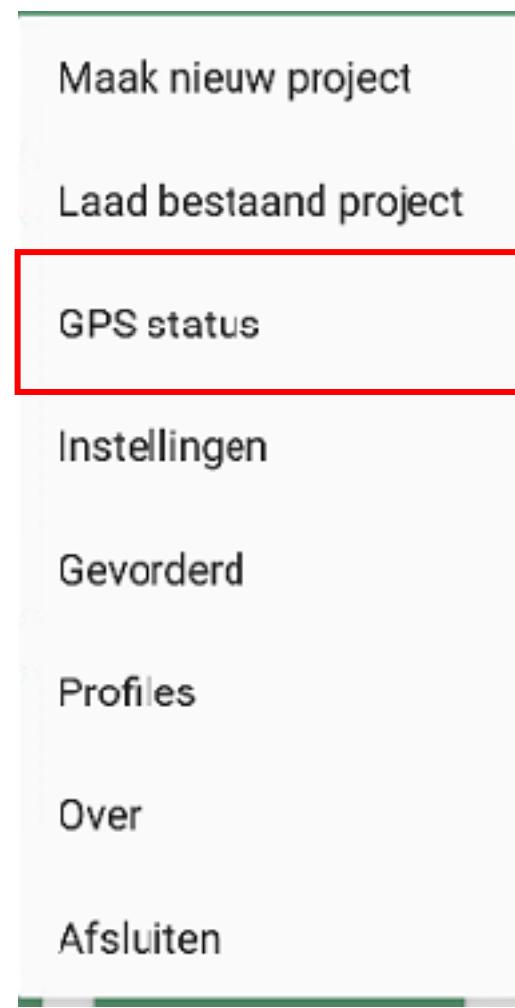
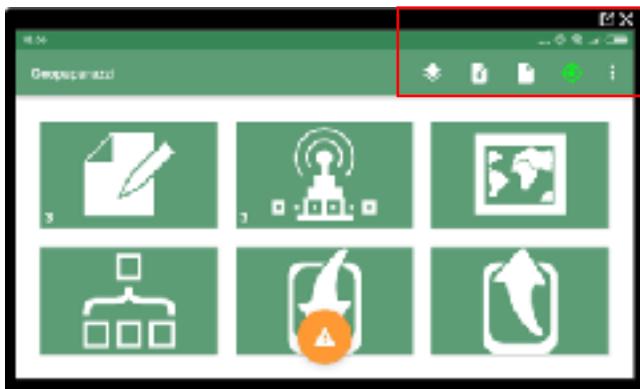
Dashboard Iconen



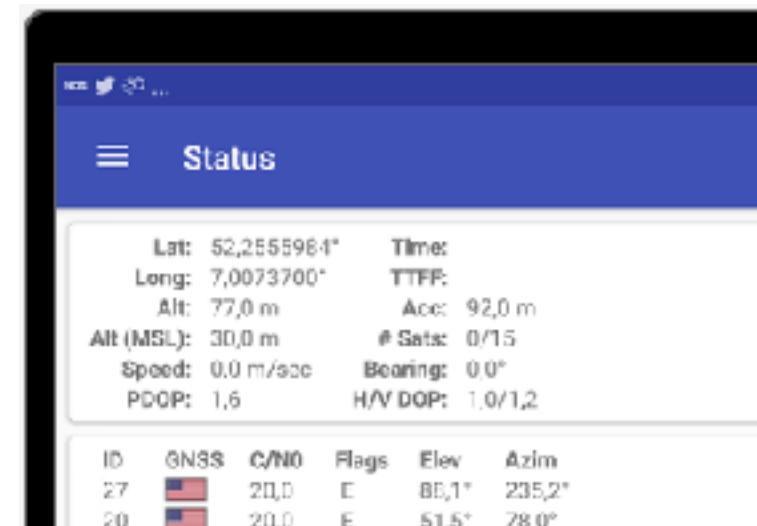
File Manager

http://geopaparazzi.github.io/geopaparazzi/#_gps_status

Dashboard Iconen

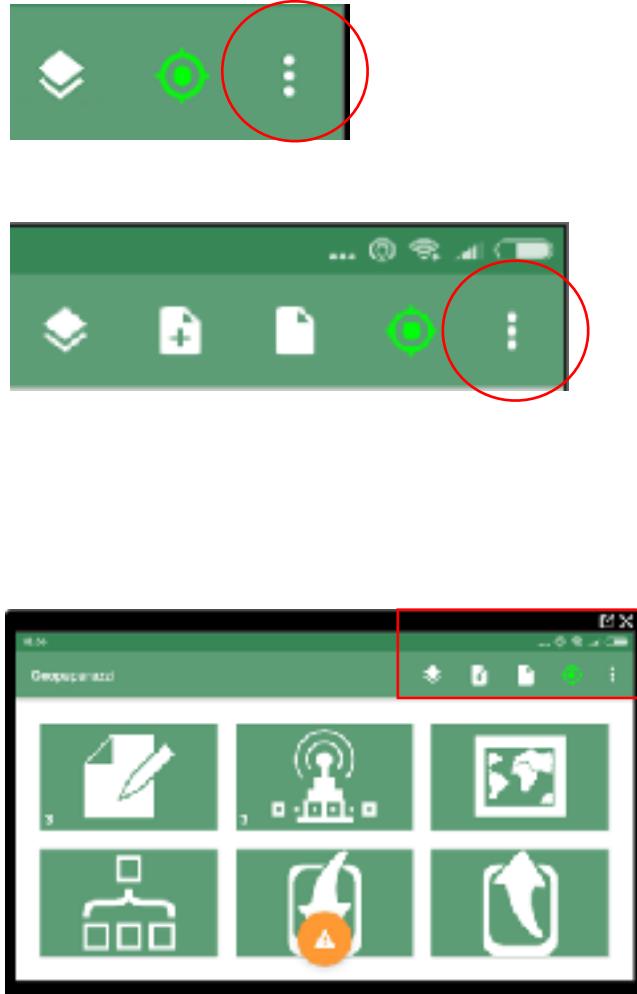


GPSTest
barbeauDev
PEGI 3



[http://geopaparazzi.github.io/geopaparazzi/
settings preferences](http://geopaparazzi.github.io/geopaparazzi/#settings_preferences)

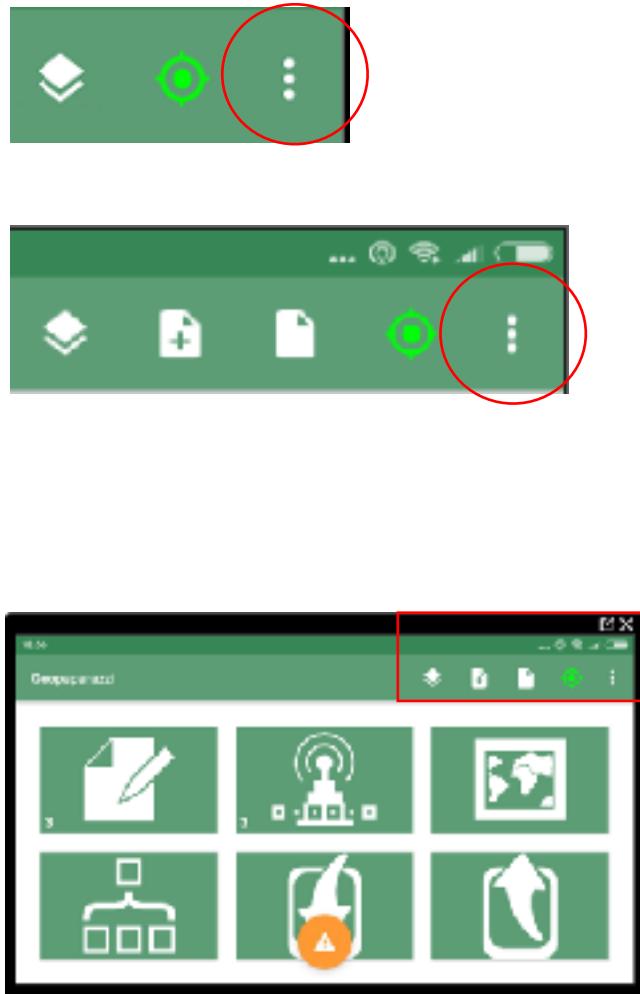
Dashboard Iconen



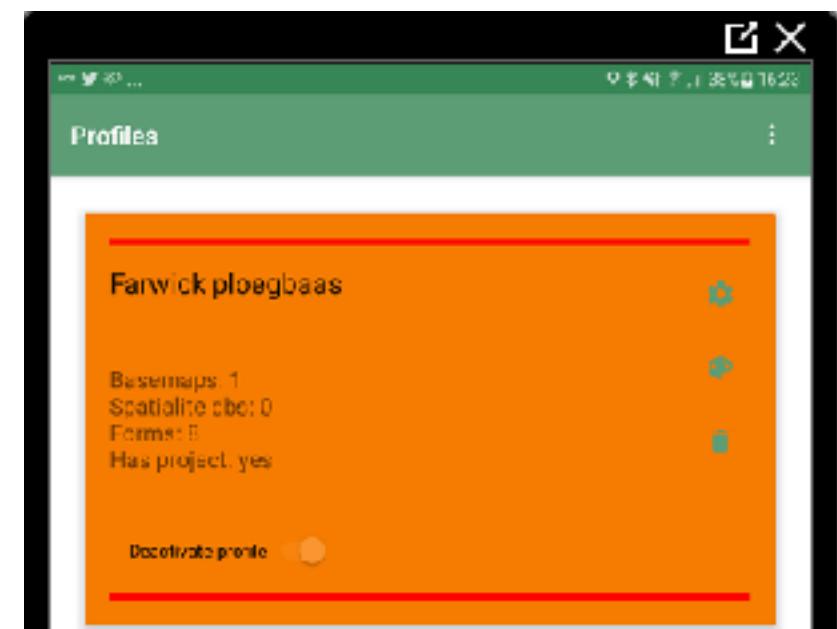
- GPS
- SMS
- Scherm
- Spatialite
- Taal
- Cloud Server

http://geopaparazzi.github.io/geopaparazzi/#_profiles

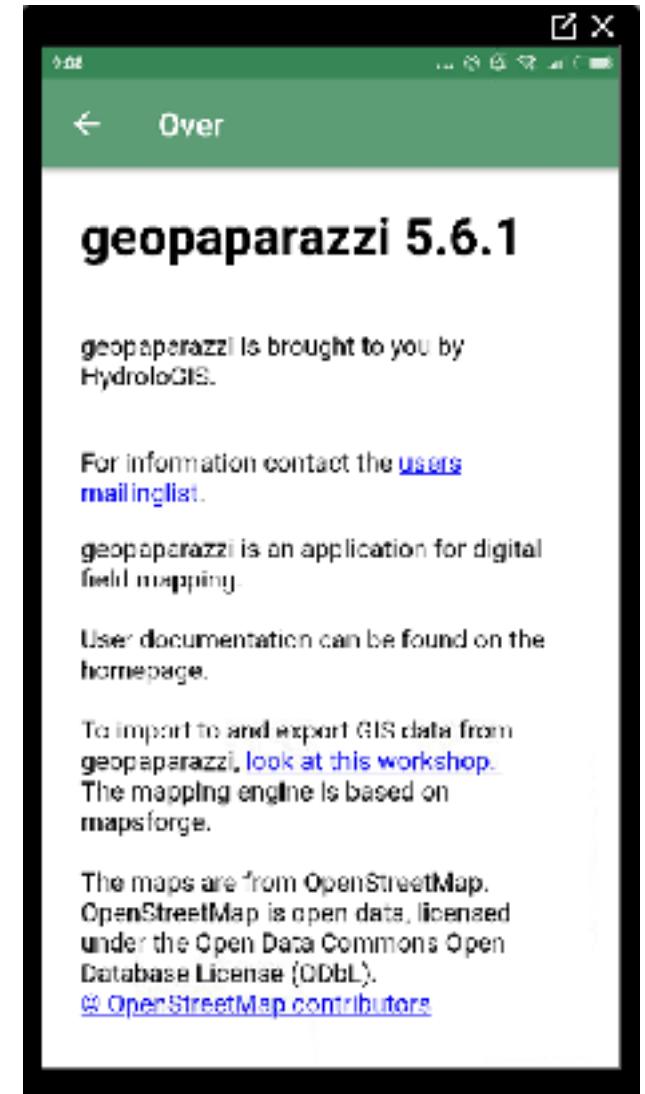
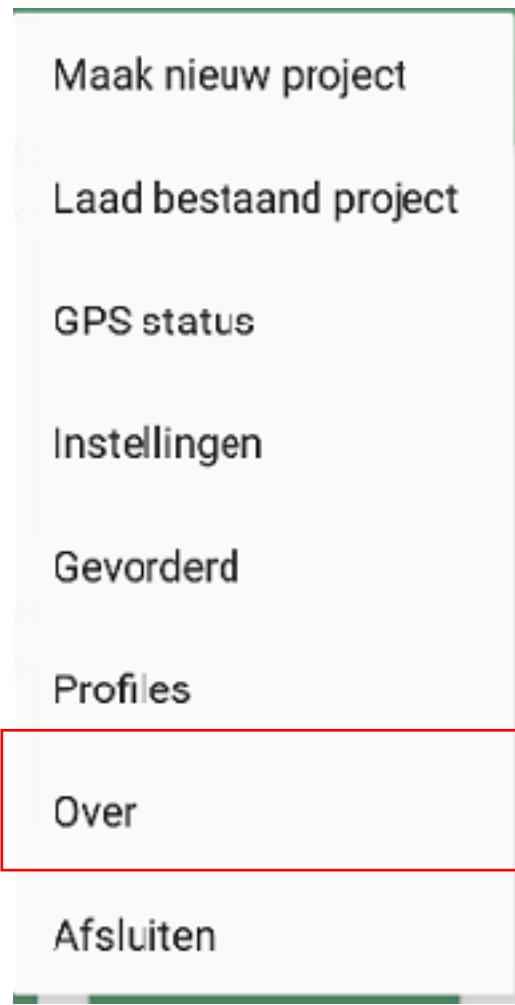
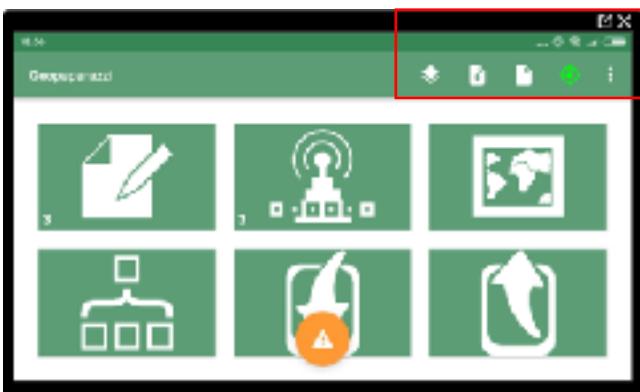
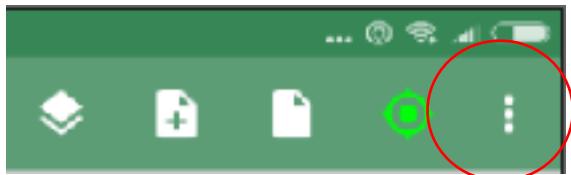
Dashboard Iconen



- Ondersteunt Survey
- Profiel Info
 - Basiskaart
 - Spatialite Database
 - Formulieren
 - Project
- Profiel Cloudserver

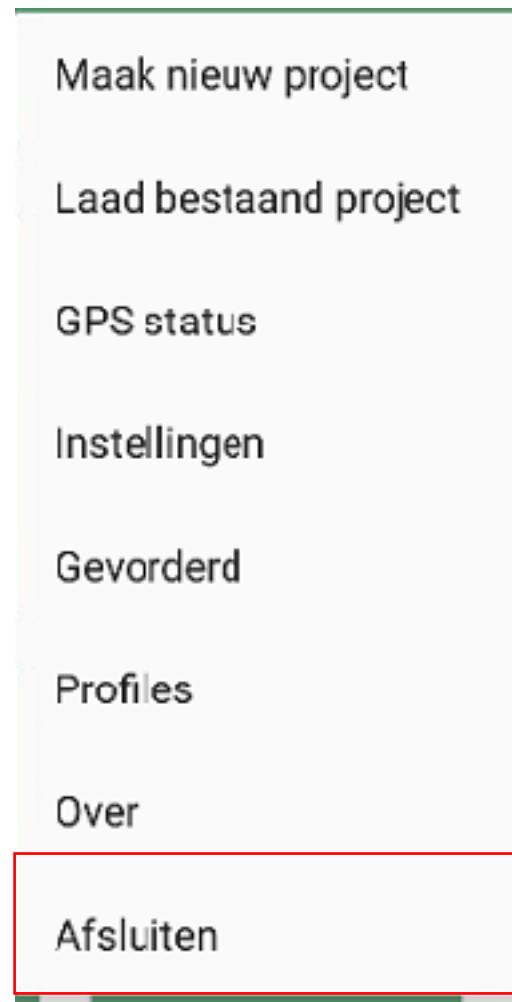
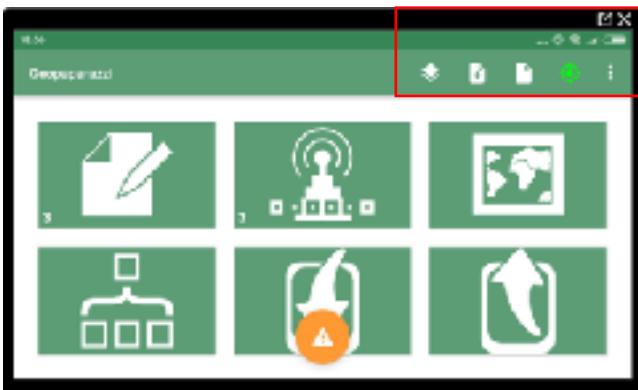
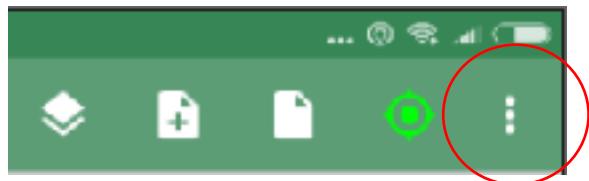


Dashboard Iconen



http://geopaparazzi.github.io/geopaparazzi/#_exit

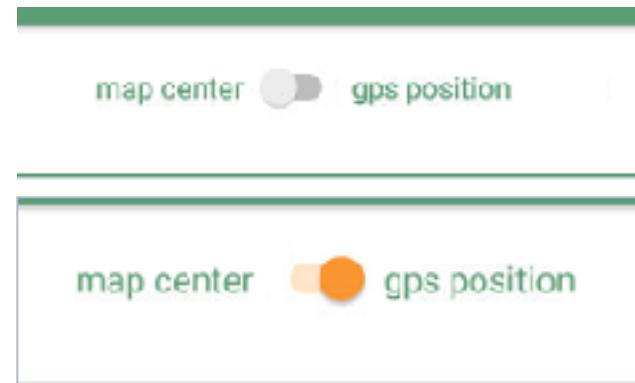
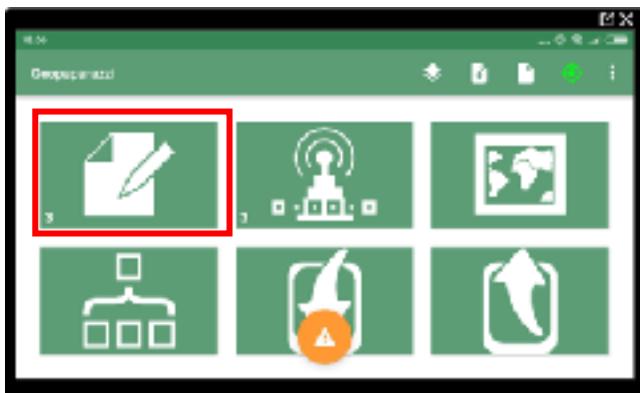
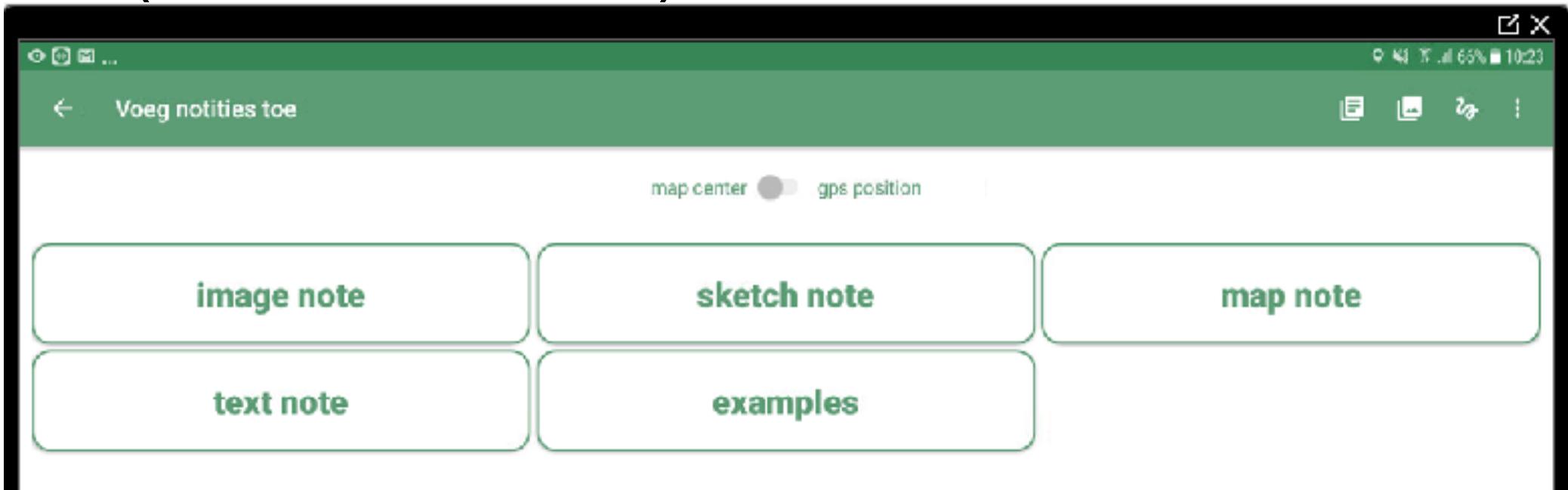
Dashboard Iconen



- Blijft actief op achtergrond
- Nodig voor GPS log !!
- Uitzetten alleen via hier
- Herstart ook nodig na
 - Taal wissel
 - Basis Kaart wissel
 - Profiel wisseling
 - Andere

http://geopaparazzi.github.io/geopaparazzi/#_notes

Notities (Formulieren)

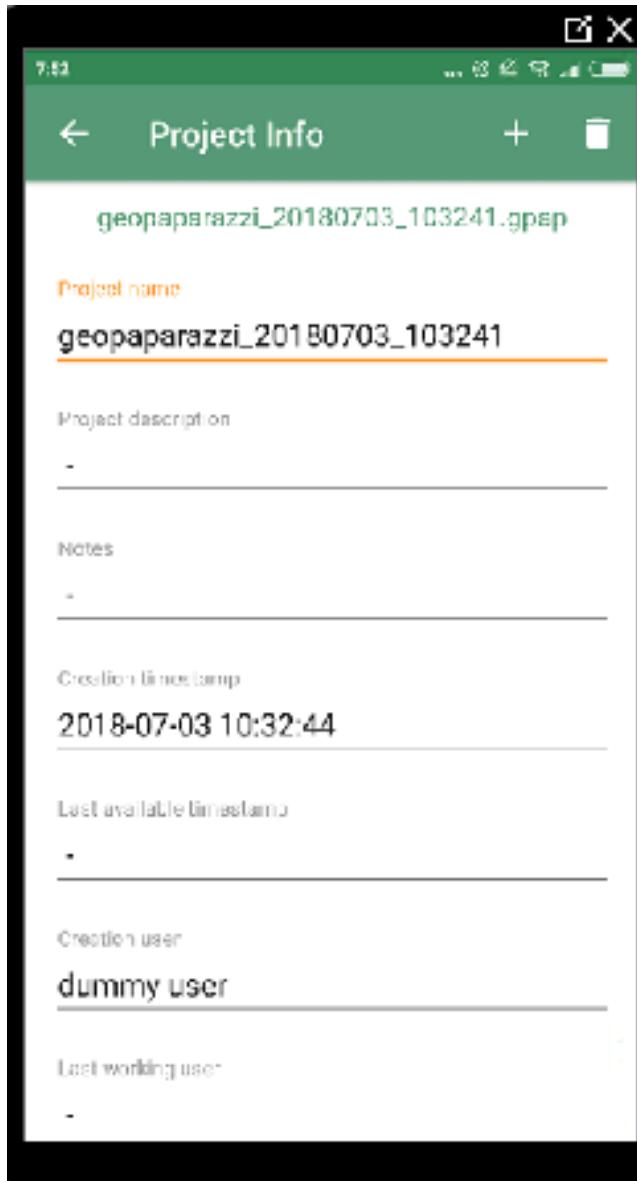
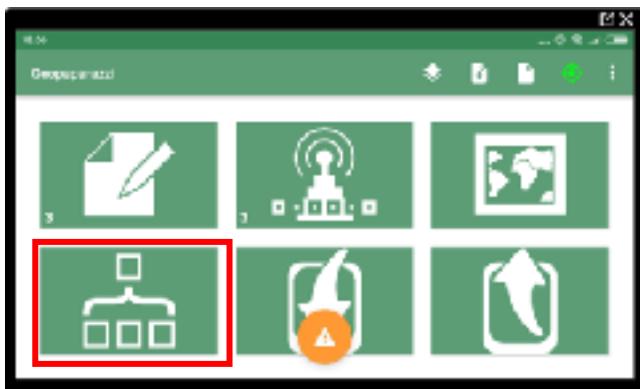


- Mapcentrum of GPS Positie
- .JSON

[http://geopaparazzi.github.io/geopaparazzi/
#_project_information](http://geopaparazzi.github.io/geopaparazzi/#_project_information)

Project info

- .gpap
- SQLite

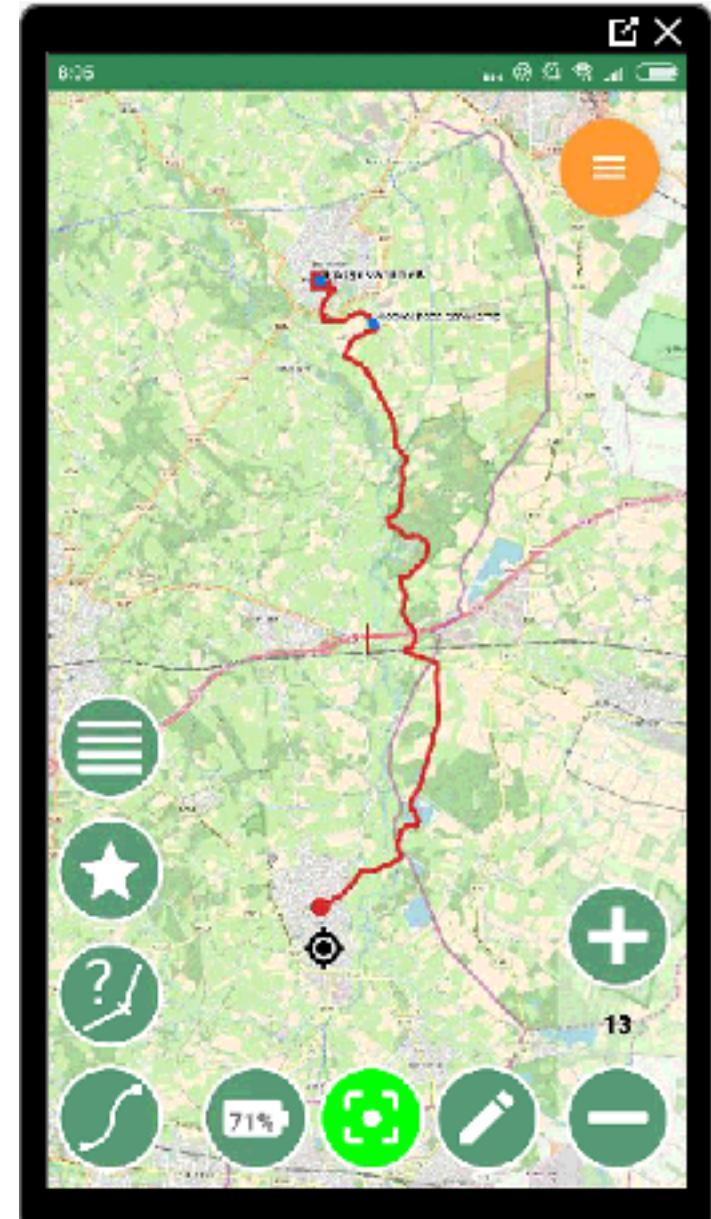
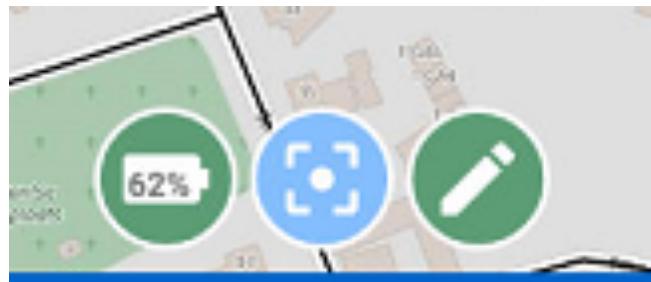
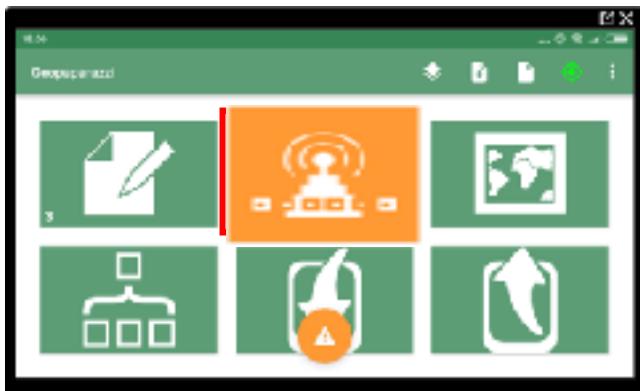


- Database naam
- Project naam
- Project beschrijving
- Project notitie
- Aanmaak Tijdstempel
- Laatste Tijdstempel
- Aangemaakt door
- Laatste bewerking door

<http://geopaparazzi.github.io/geopaparazzi/# gps logging>

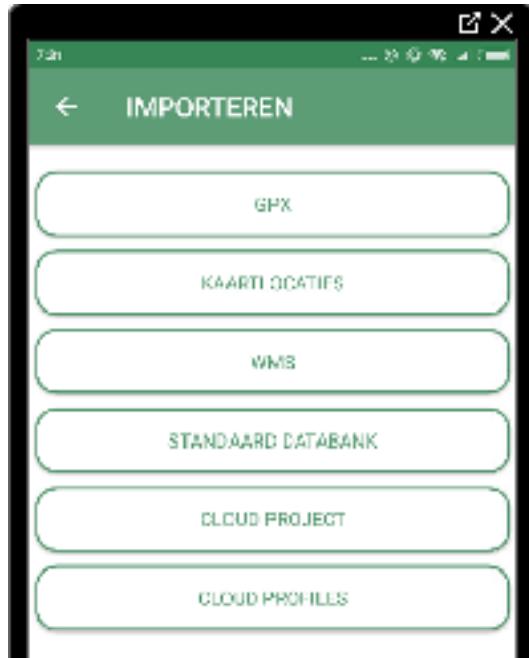
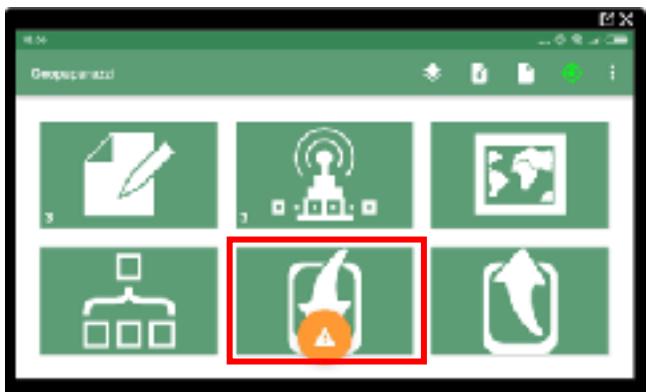
GPS track

- Aan en Uit
- .GPX
- Blauw



http://geopaparazzi.github.io/geopaparazzi/#_import

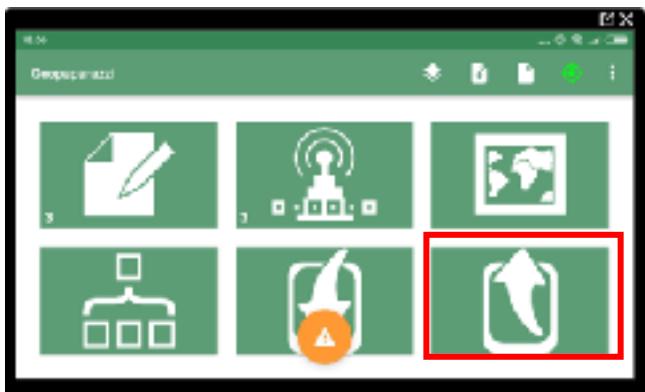
Importeren



- GPX
- Kaartlocaties
- WMS kaart url
- Standaard Spatialite Databank
- Cloud Project
- Cloud Profile

http://geopaparazzi.github.io/geopaparazzi/#_export

Exporteren

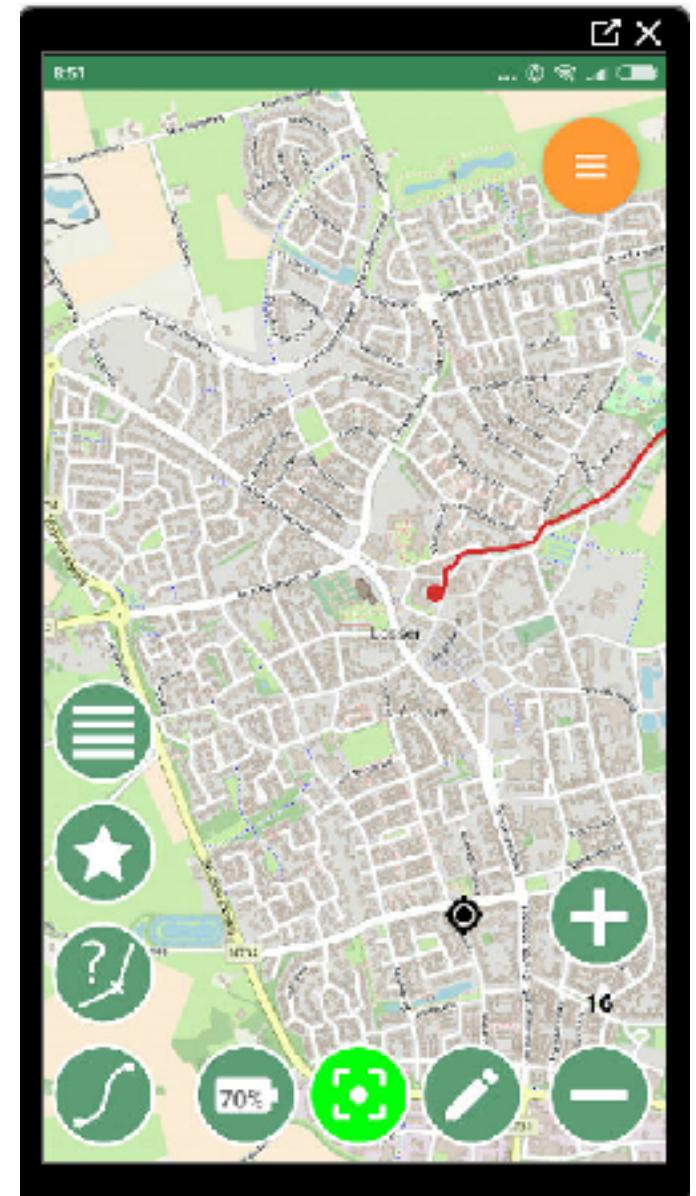
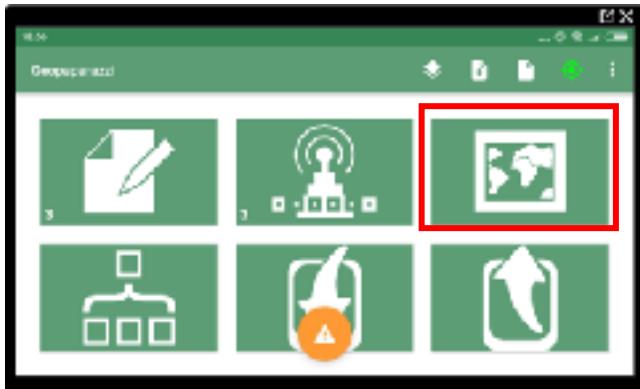


- KMZ
- GPX
- Kaartlocaties
- Afbeeldingen
- Projectformulier als PDF
- Cloud Project

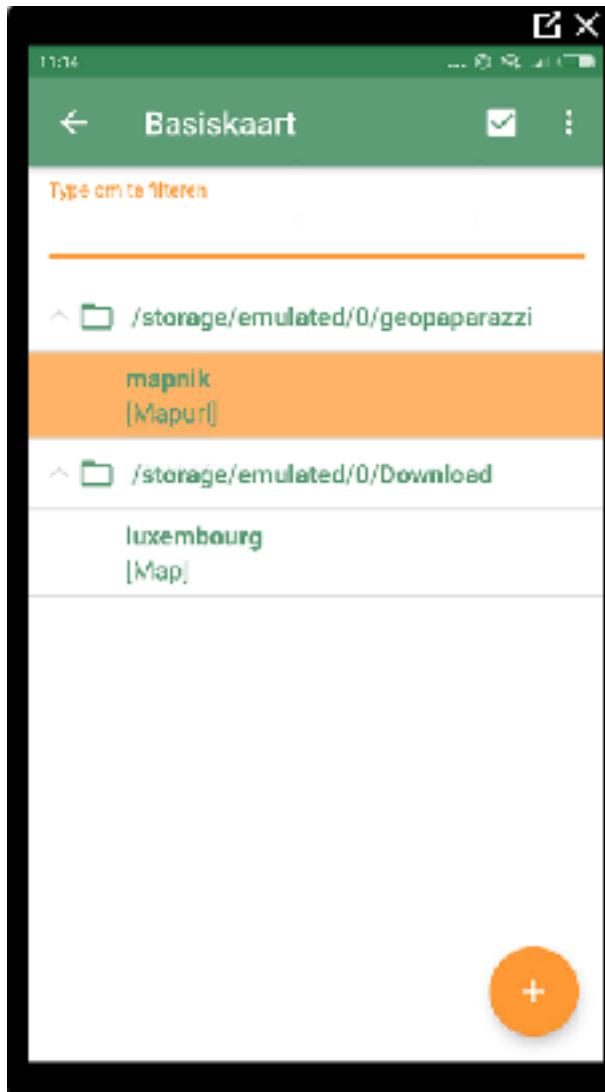
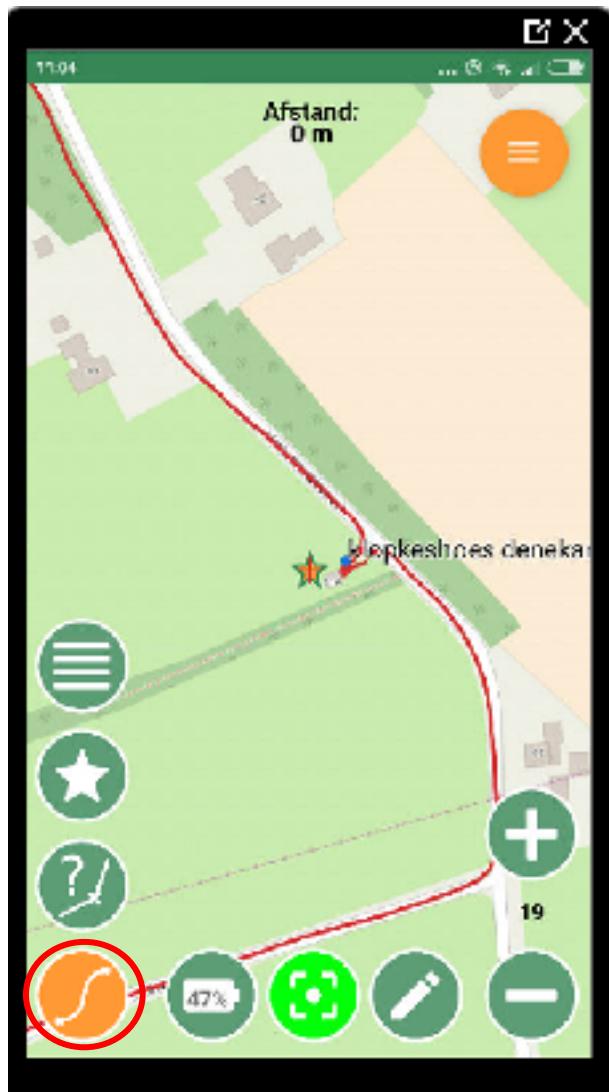
http://geopaparazzi.github.io/geopaparazzi/#_the_map_view

Kaart beeld

- Centrale van de app
 - Kaart
 - Huidige GPS locatie
 - GPS track
 - Vector datasets
 - Notes
- Map engine ; [Mapsforge](#) echter wel 0.3



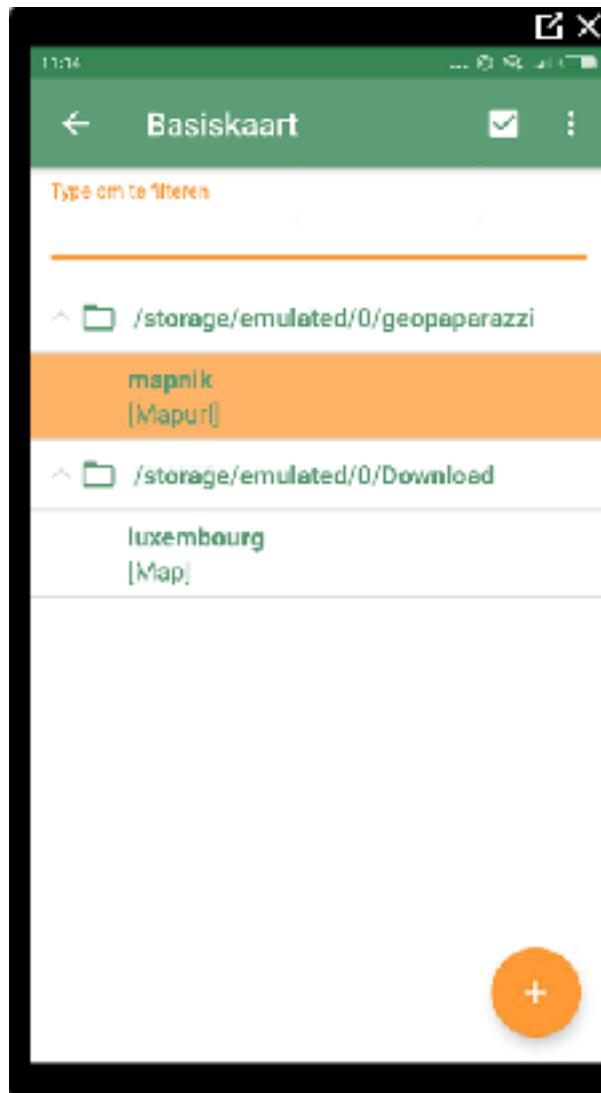
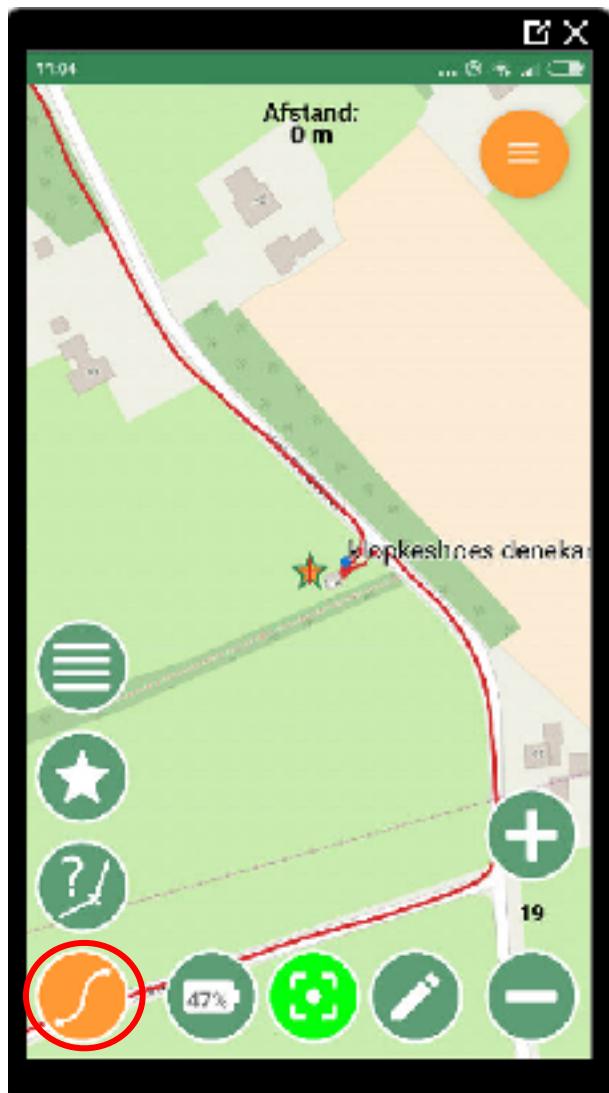
Kaarten standaard



- Standard online
 - OSM
 - Mapnik
 - <https://wiki.openstreetmap.org/wiki/Mapnik>
 - Mapurl

http://geopaparazzi.github.io/geopaparazzi/#_basemaps_2

Kaarten

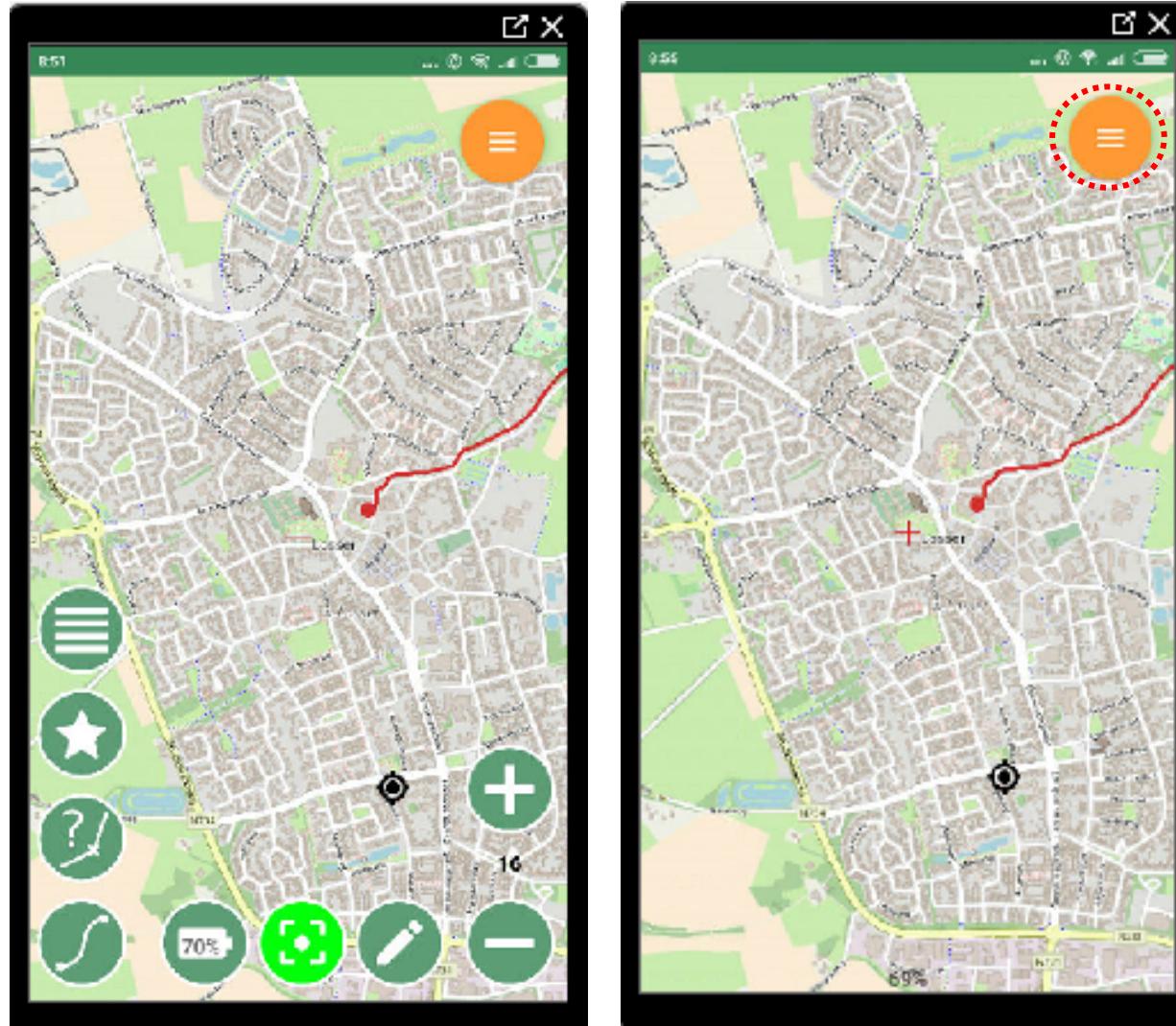


- Online
 - Mapurls
 - Mapnik OSM
- Offline
 - Mapforge
 - <http://download.mapsforge.org/>
 - **map**
Index of /maps/v3

Name	Last modified	Size	Description
Parent Directory		-	
africa/	2018-06-20 02:33	-	
asia/	2018-06-30 19:51	-	
australia-oceania/	2018-05-26 08:14	-	
central-america/	2018-06-30 22:11	-	
europe/	2018-06-04 10:49	-	
north-america/	2018-06-05 21:19	-	

http://geopaparazzi.github.io/geopaparazzi/#_map_navigation

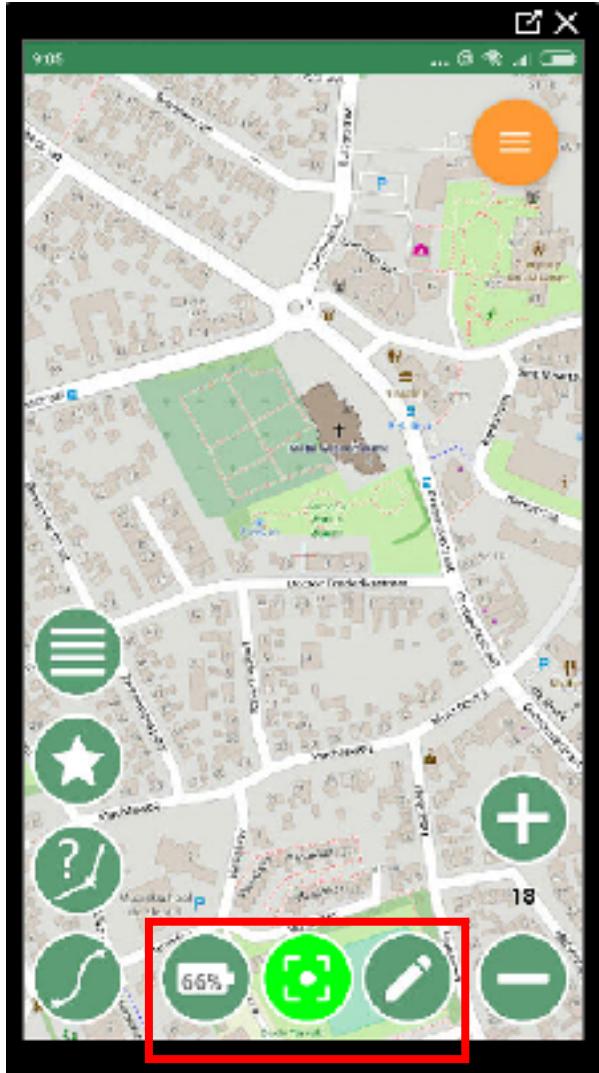
Kaartbeeld navigatie



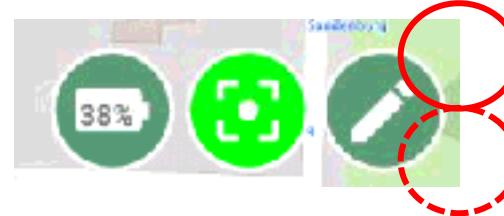
- Map Menu
 - iets langer drukken
 - Kaart Iconen
 - Aan / uit
- Knoppen rechts
 - in / uit zoomen (kort)
 - Magnify (lang)
 - Schaal
- Kaart
 - Pannen
 - Zooming
 - Duim-wijsvinger
 - Double Tap
- Center on GPS



Knop onderzijde



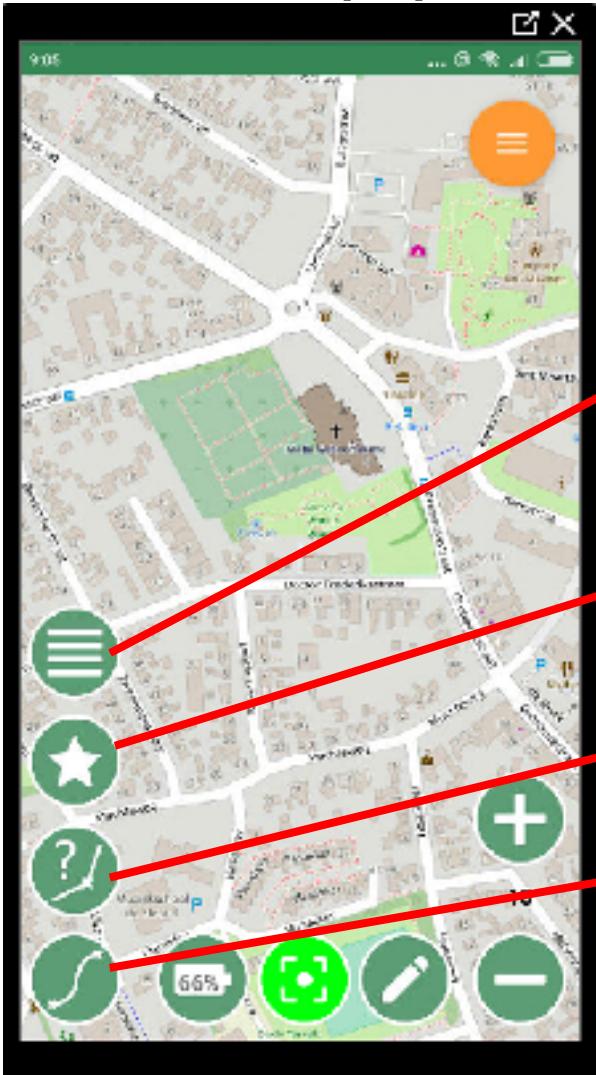
- Rood = GPS is uit
- Oranje = GPS is aan maar geen fix
- Groen = GPS heeft fix, geen log
- Blauw = GPS heeft fix, maakt log
- Tip klik op GPS teken en de kaart wordt gecentreerd op je GPS locatie



- Batterij status
- GPS
 - Kleur Status
 - Kaart centreren
- Vector bewerken
 - Kort - bewerken
 - Lang - Spatialite Layers



Knoppen aan de linkerzijde



Klik kort; nieuw formulier invullen
Klik lang; lijst met alle ingevulde formulieren

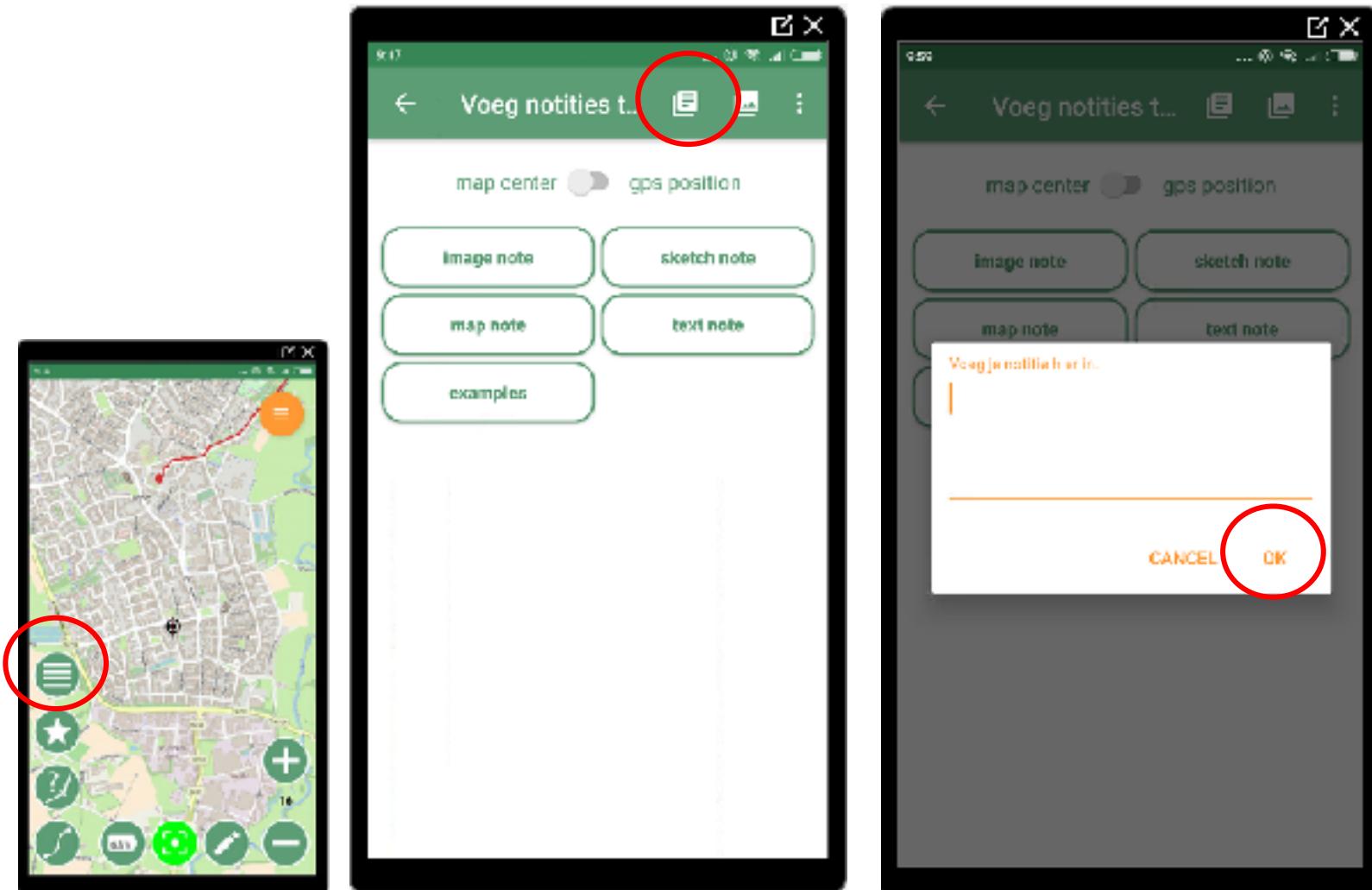
Klik kort ; bewaar kruislocatie kaart
Klik lang ; toon lijst met alle kruislocaties

Klik ; GPS log analyse ; aan / uit

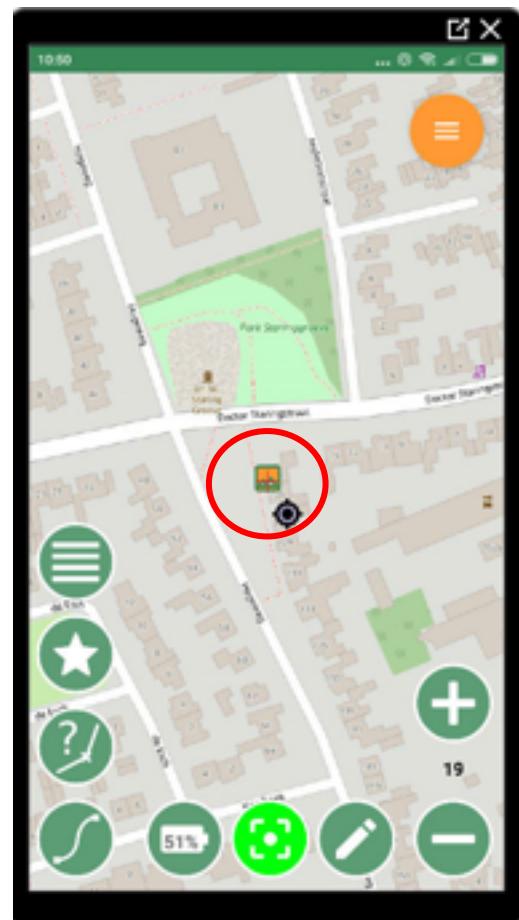
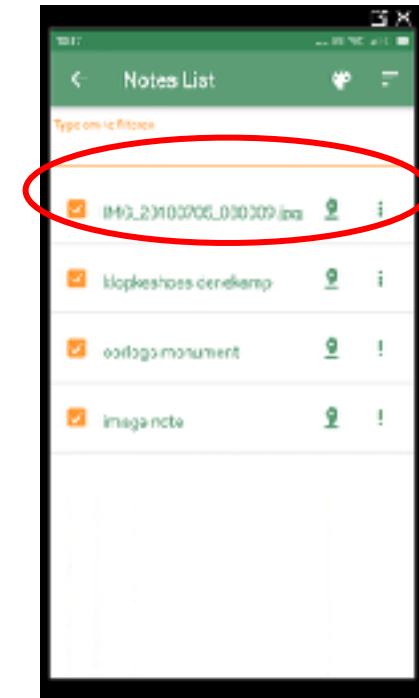
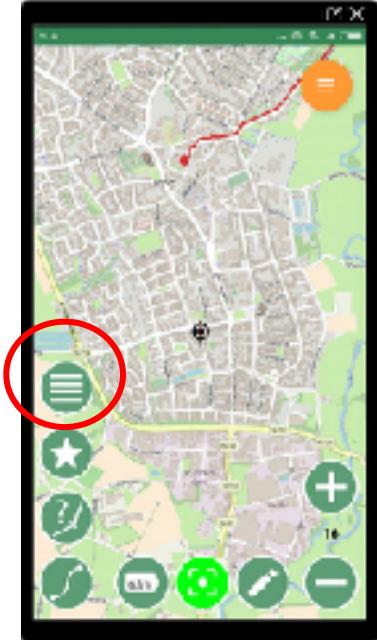
Klik ; meetlat actief; aan/uit



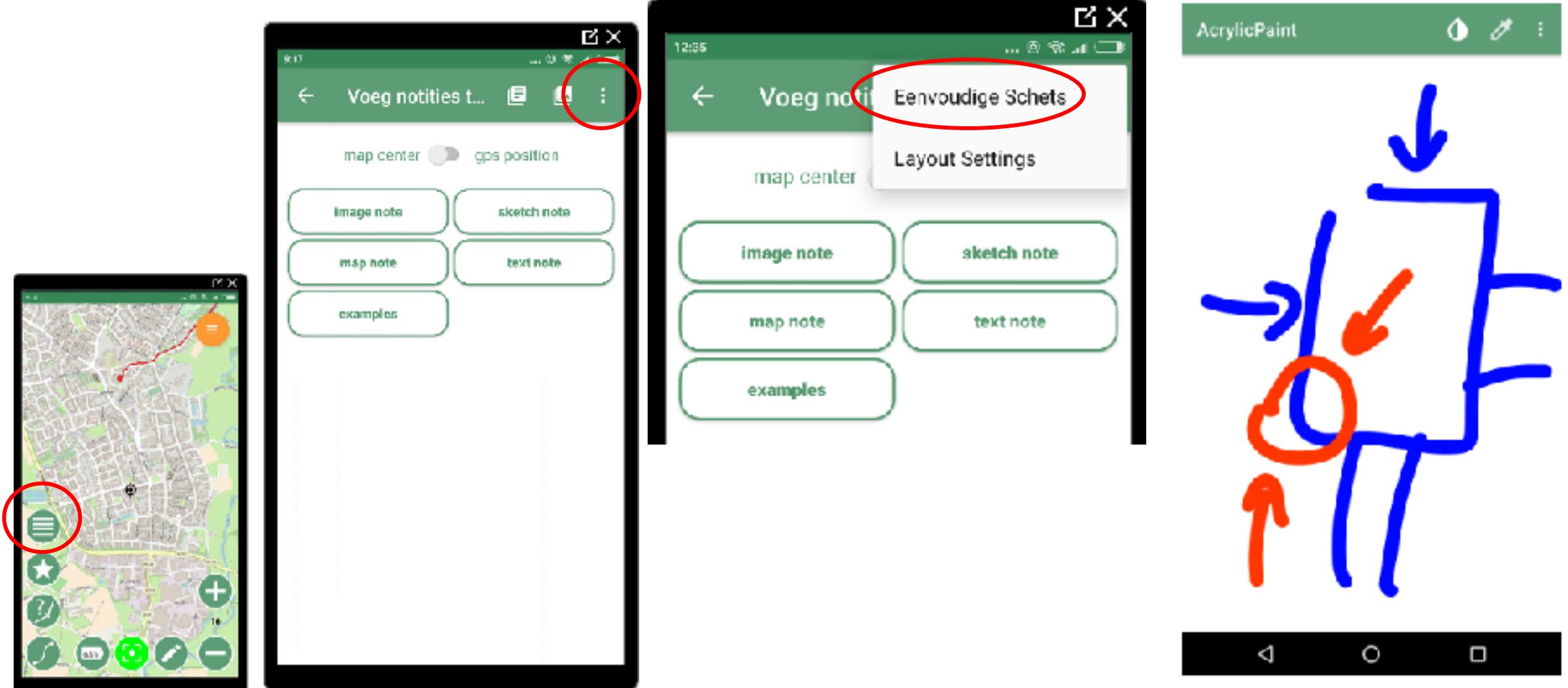
Simple Notitie



Simple Foto



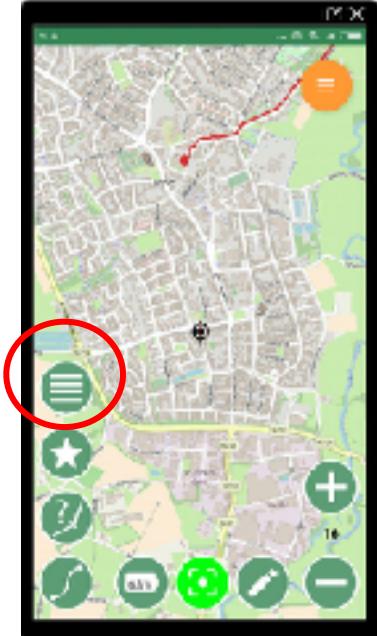
Simple Schets



[http://geopaparazzi.github.io/geopaparazzi/
using form based notes](http://geopaparazzi.github.io/geopaparazzi/#_using_form_based_notes)

Complex formulie

.JSON



A screenshot of a mobile application titled 'Formulier data'. It displays a list of note types with examples:

- text: some text
- multiple text
- text example with key and label
- numeric text
- numeric text used as label in map
- date
- time
- labels
- boolean
- combos
- pictures
- sketches
- map

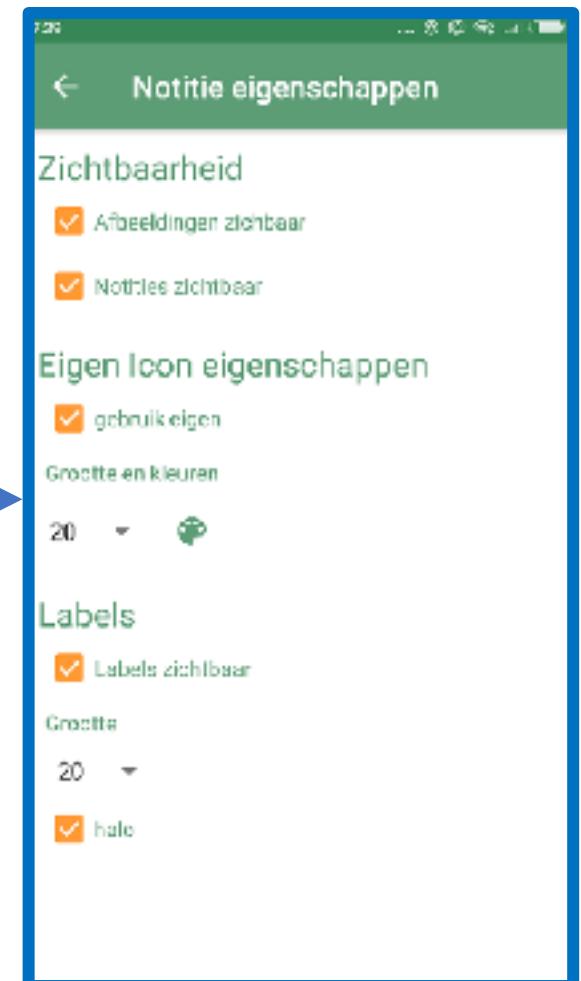
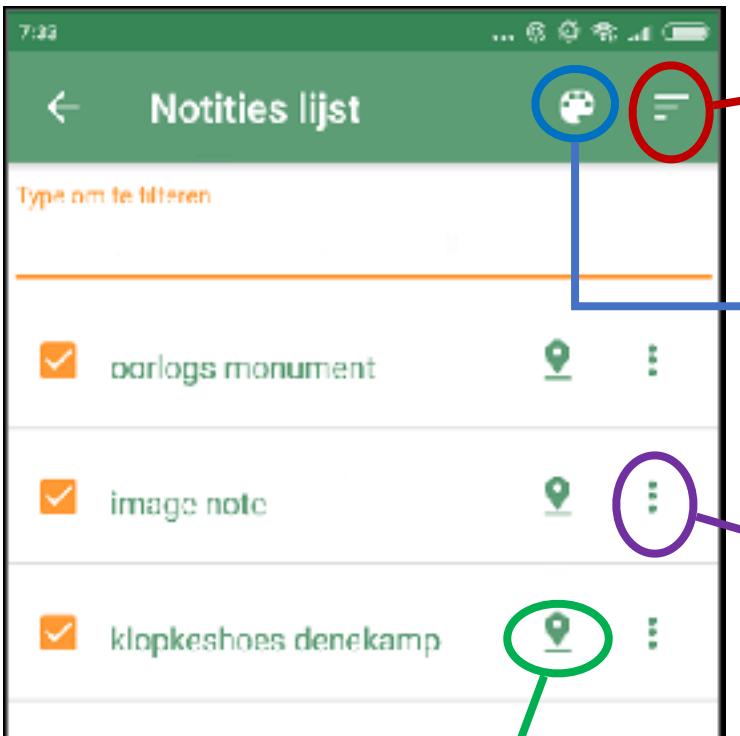
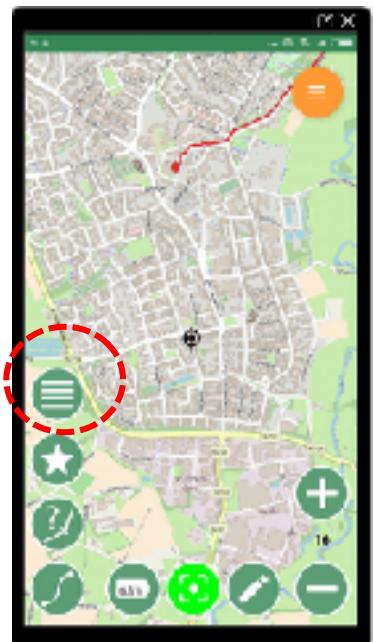
13.1.1. Text

```
"formname": "text",
"formitems": [
  {
    "key": "some_text",
    "value": "",
    "type": "string"
  }
]
```

1

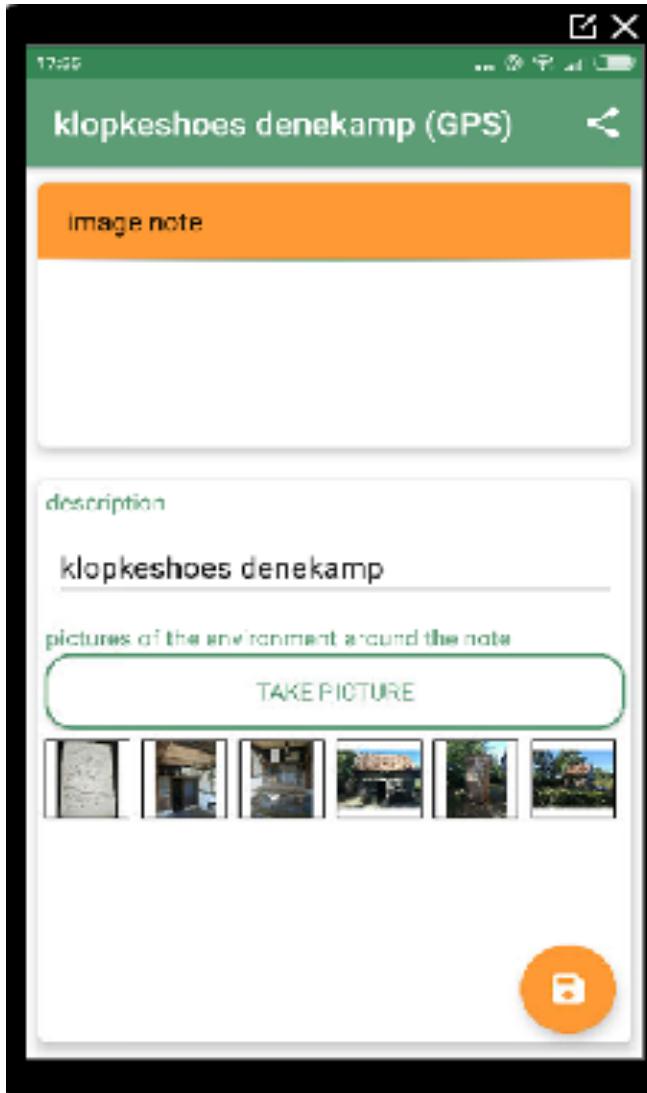
<http://geopaparazzi.github.io/geopaparazzi/# the notes list>

Lijst met formulieren

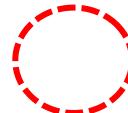


Zoom in naar de
locatie

Formulier op de kaart

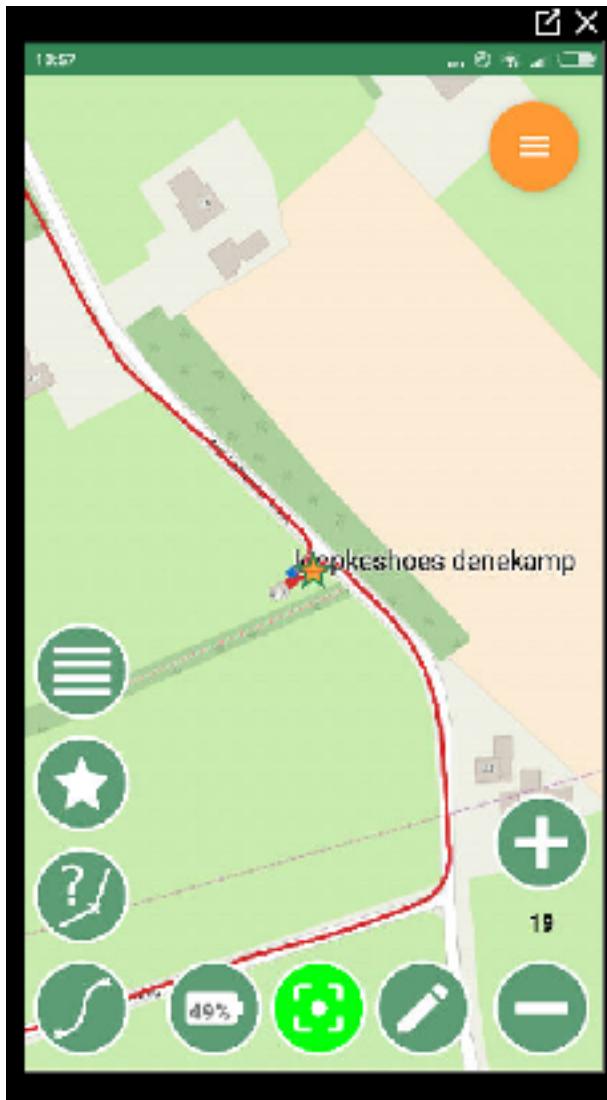
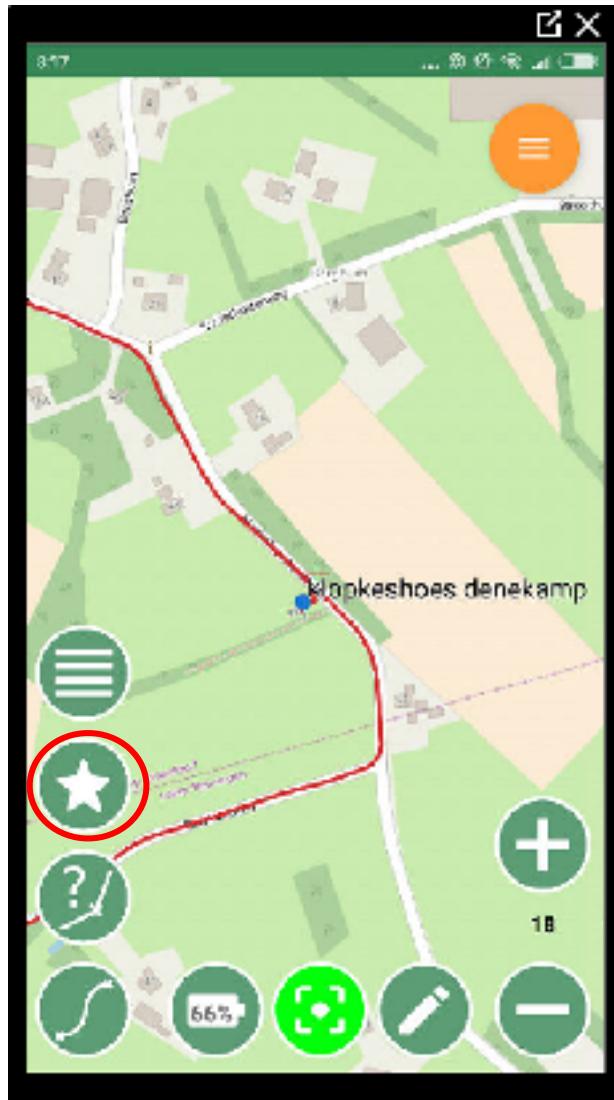


- Openen
 - Klik op punt en formulier gaat open
 - Open Notitielijst
 - kies wijzig
- Vergeet niet bij wijziging op te slaan

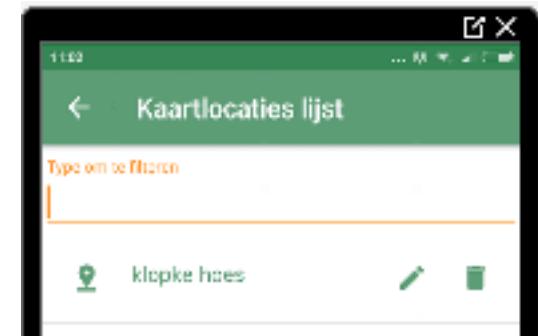
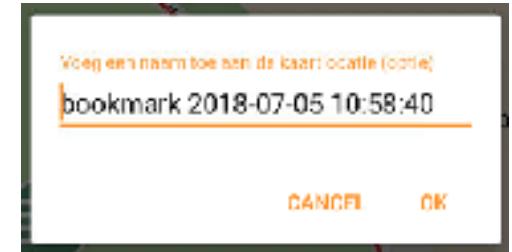


http://geopaparazzi.github.io/geopaparazzi/#_add_bookmark

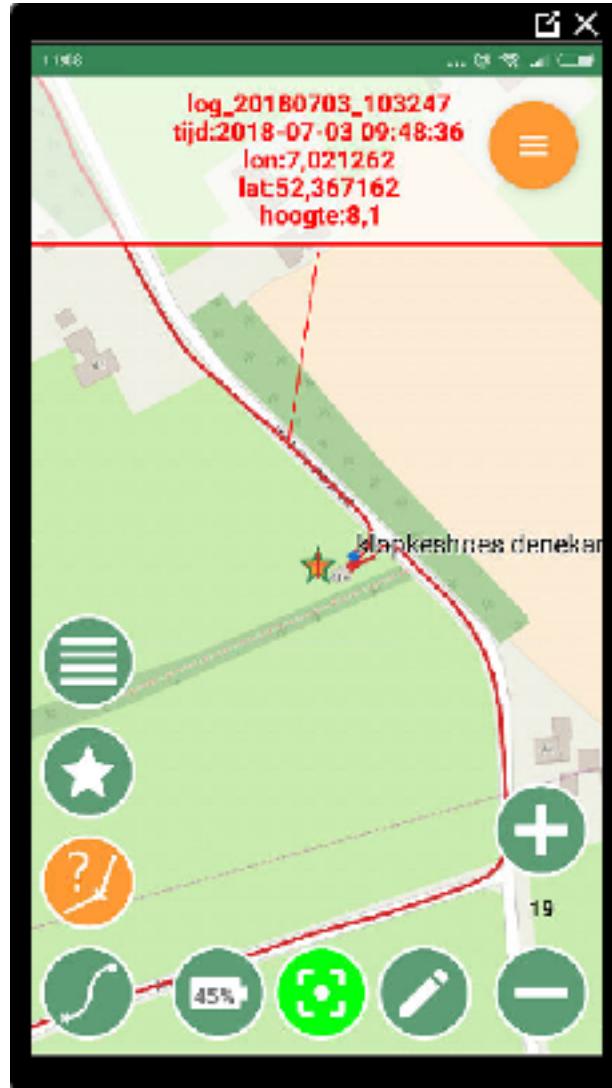
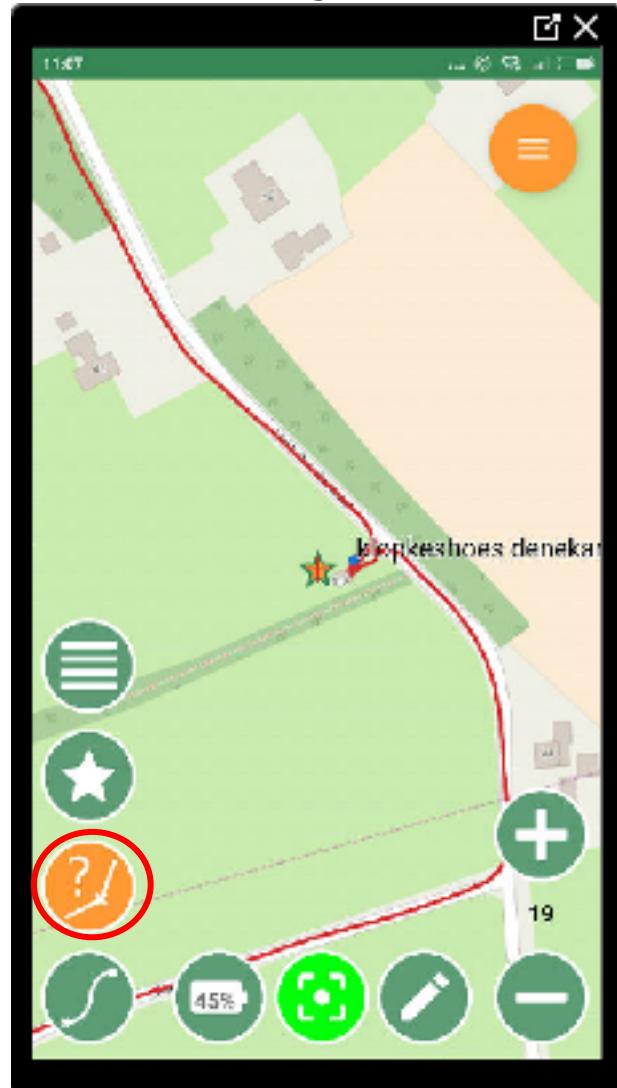
Kaart locatie (Bookmark)



- Verplaats kruis kaart naar de locatie
 - Klik kort
 - Naam
 - OK
-
- Klik lang

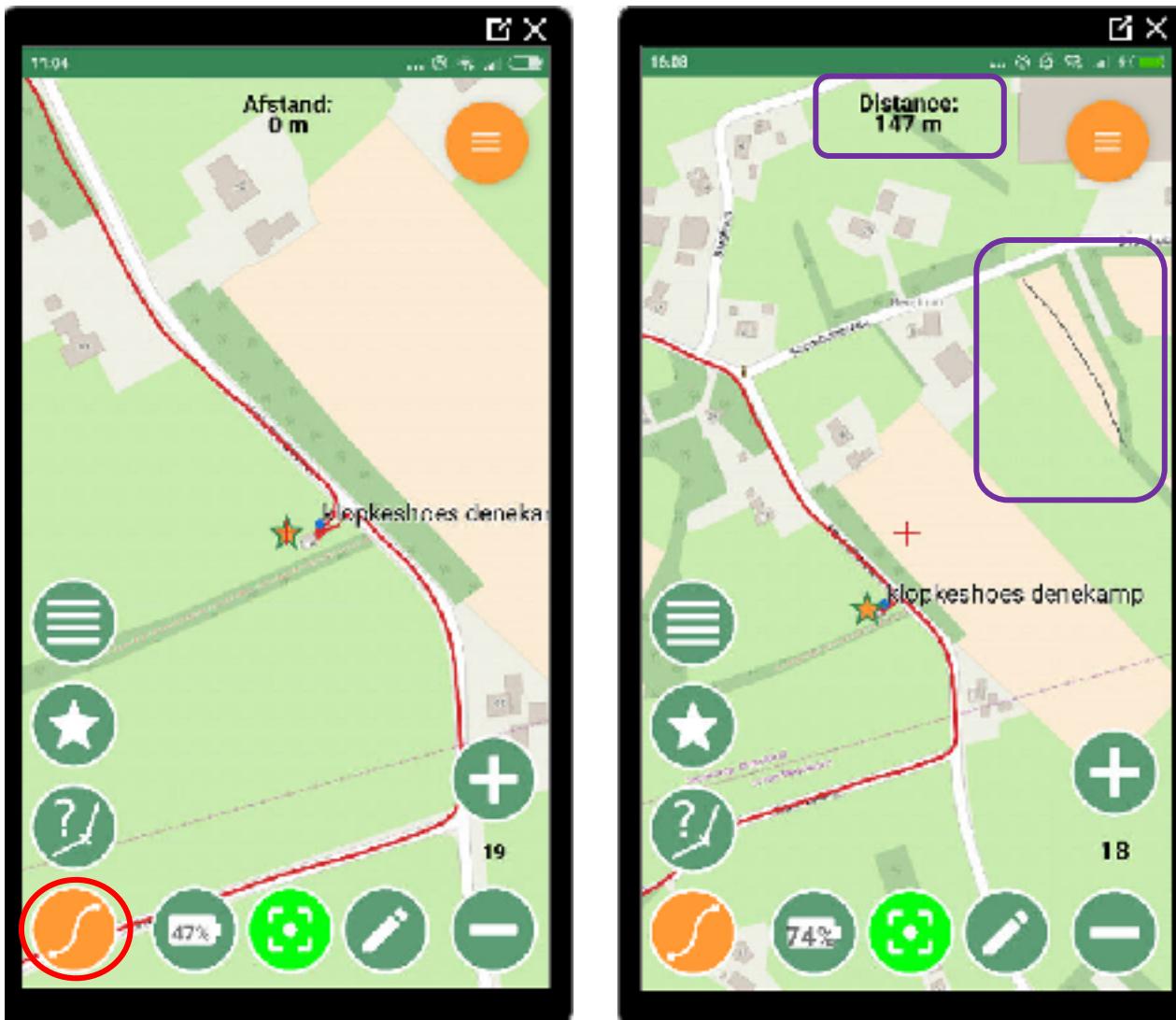


Analyse GPX track



- GPX op de kaart
- Activeer tool
- Druk in buurt
- Track gegevens

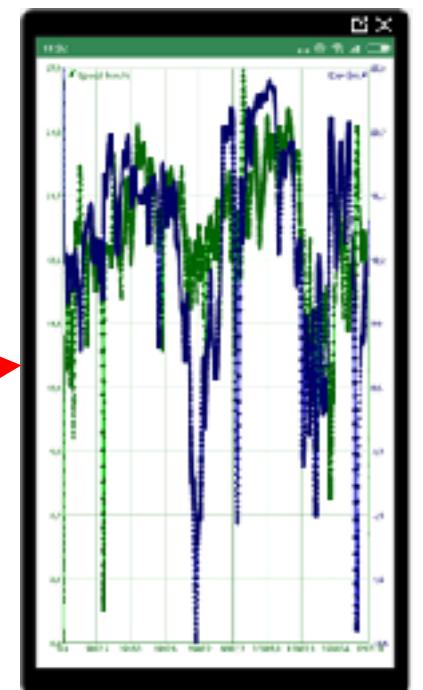
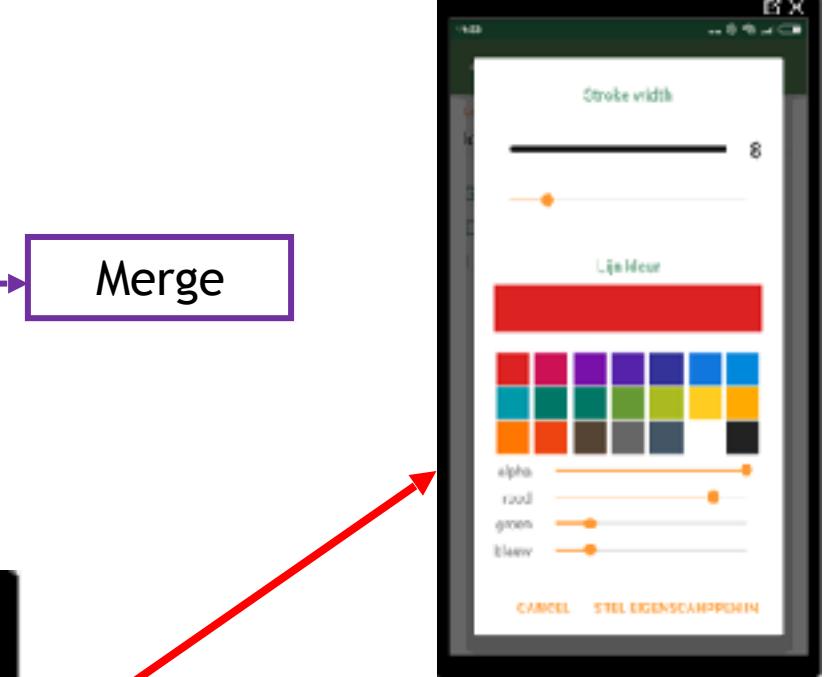
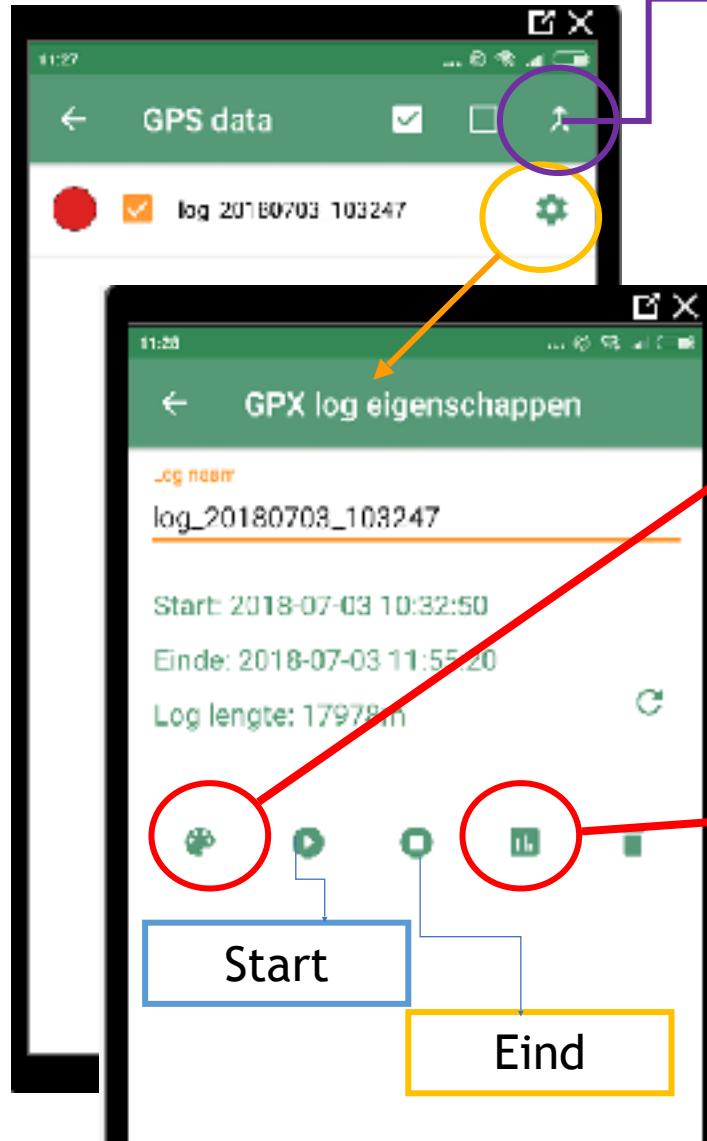
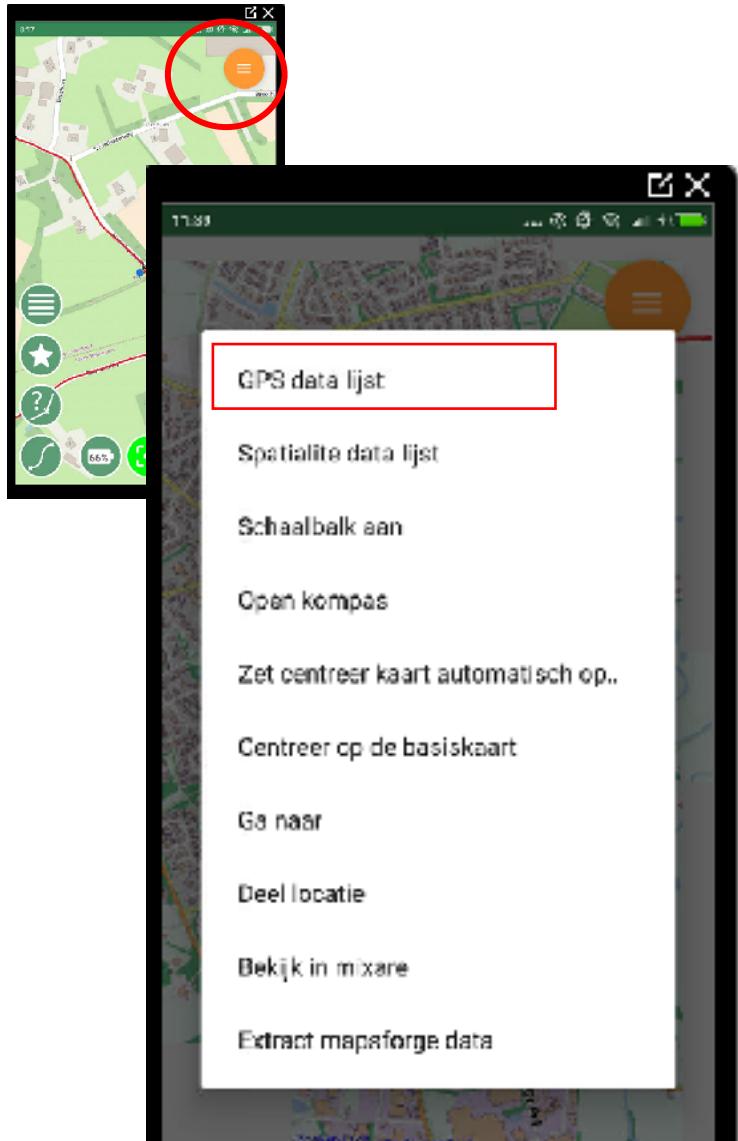
Afstand Meten



- Activeer meten
- Trek een lijn
- Afstand midden boven

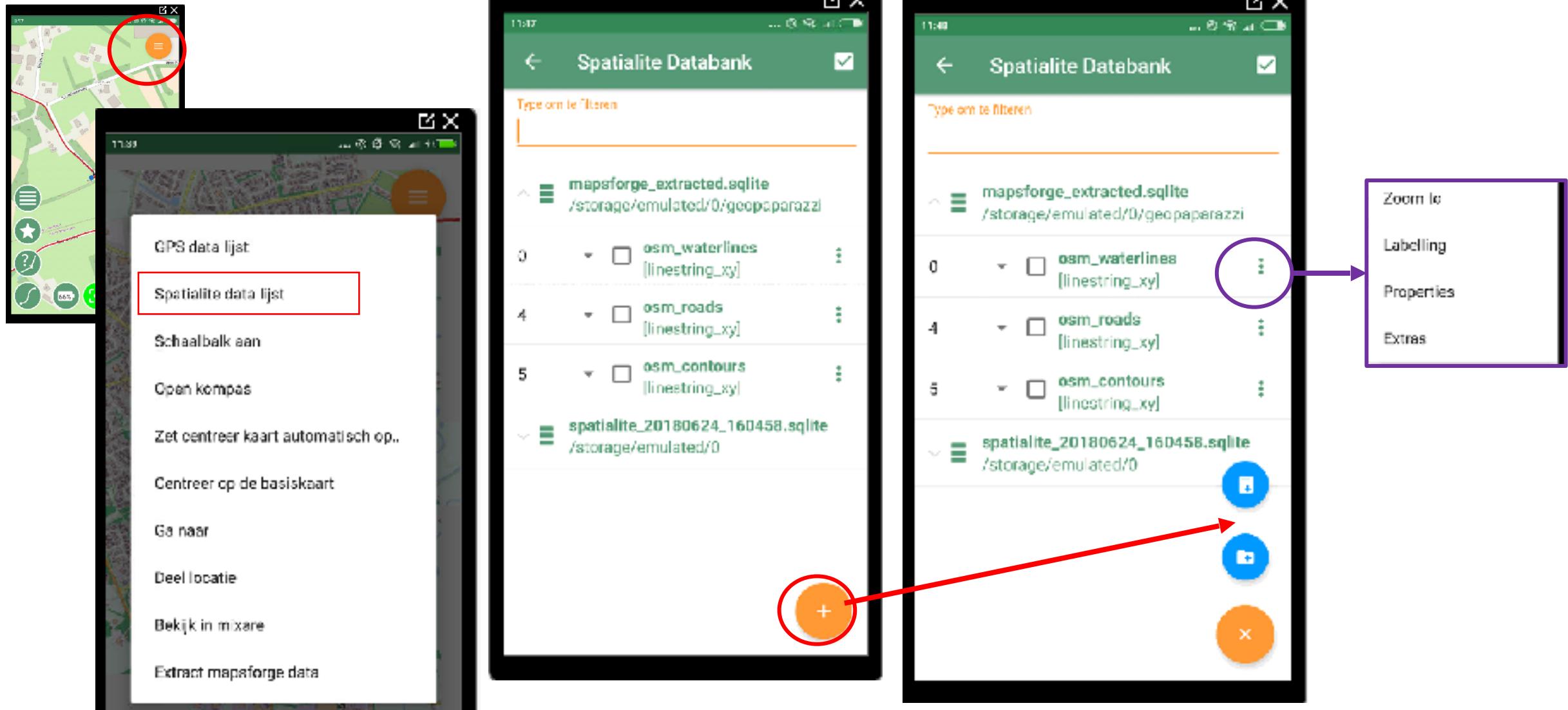
[http://geopaparazzi.github.io/geopaparazzi/
#gps_data_list](http://geopaparazzi.github.io/geopaparazzi/#gps_data_list)

Kaartbeeld > GPS datalijst

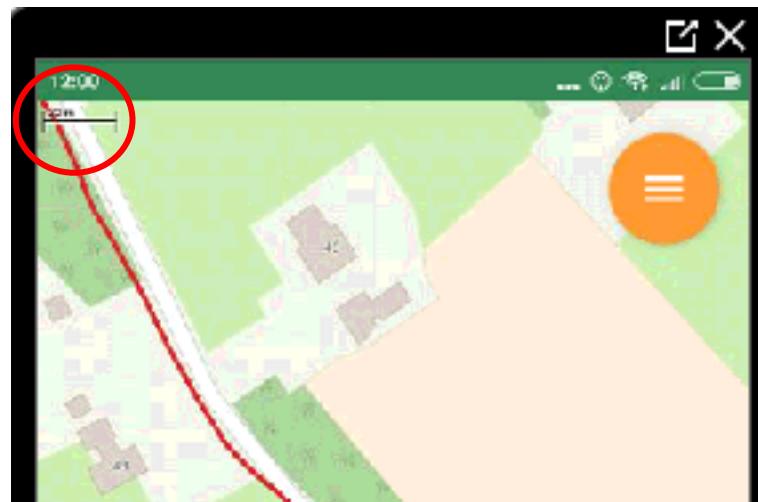
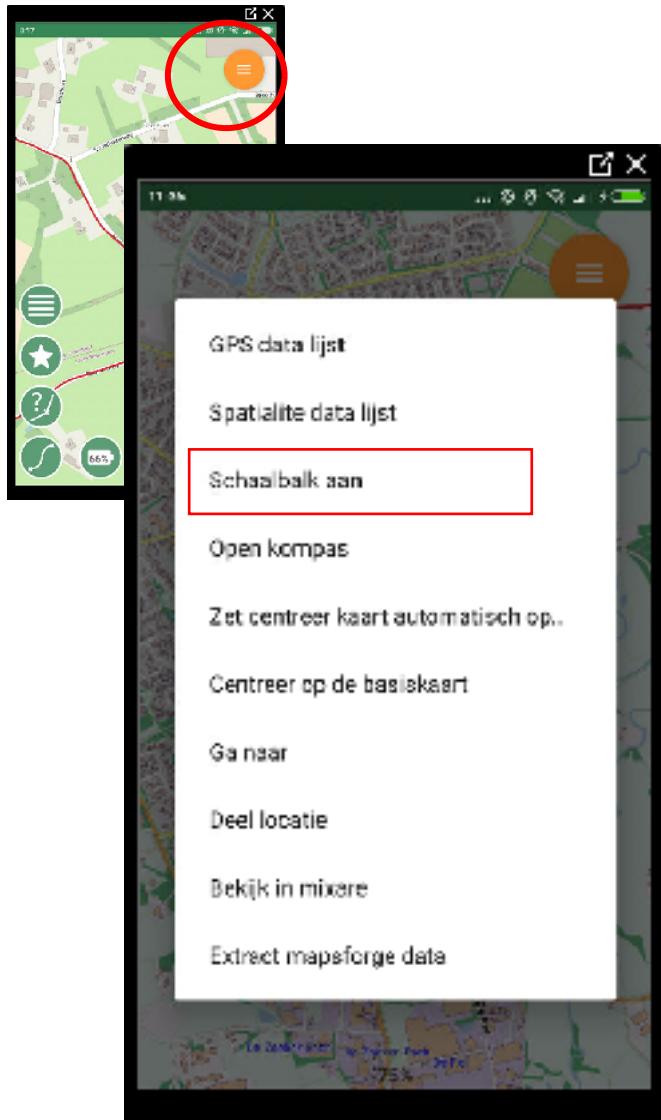


[http://geopaparazzi.github.io/geopaparazzi/
#_spatialite_data_list](http://geopaparazzi.github.io/geopaparazzi/#_spatialite_data_list)

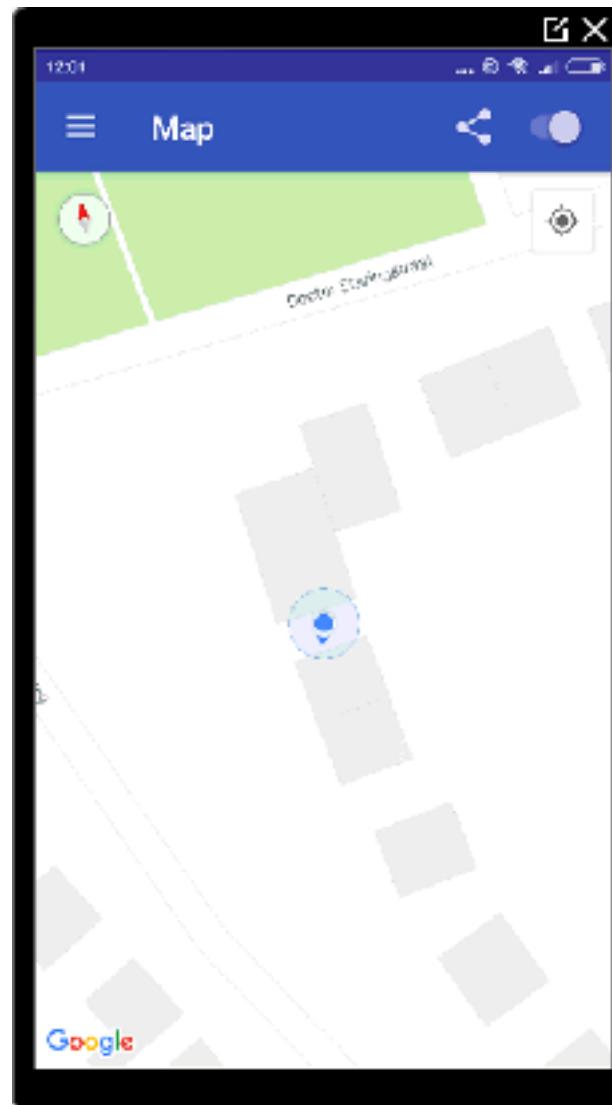
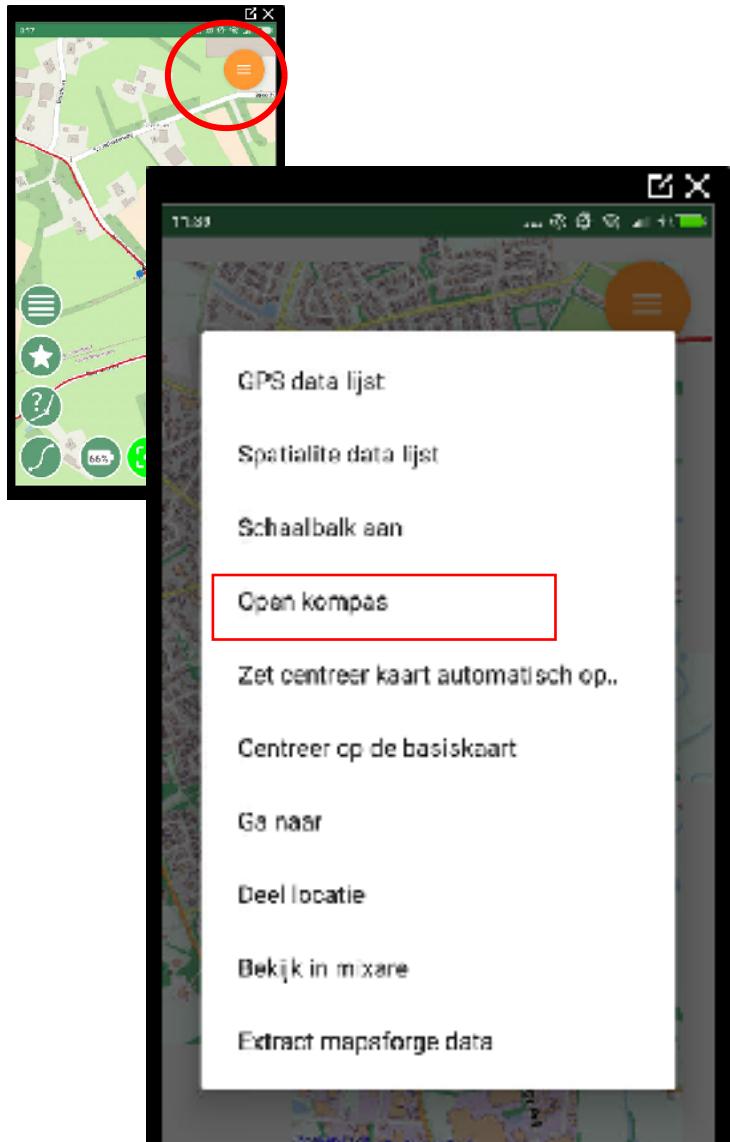
Kaartbeeld > Spatialite datalijst



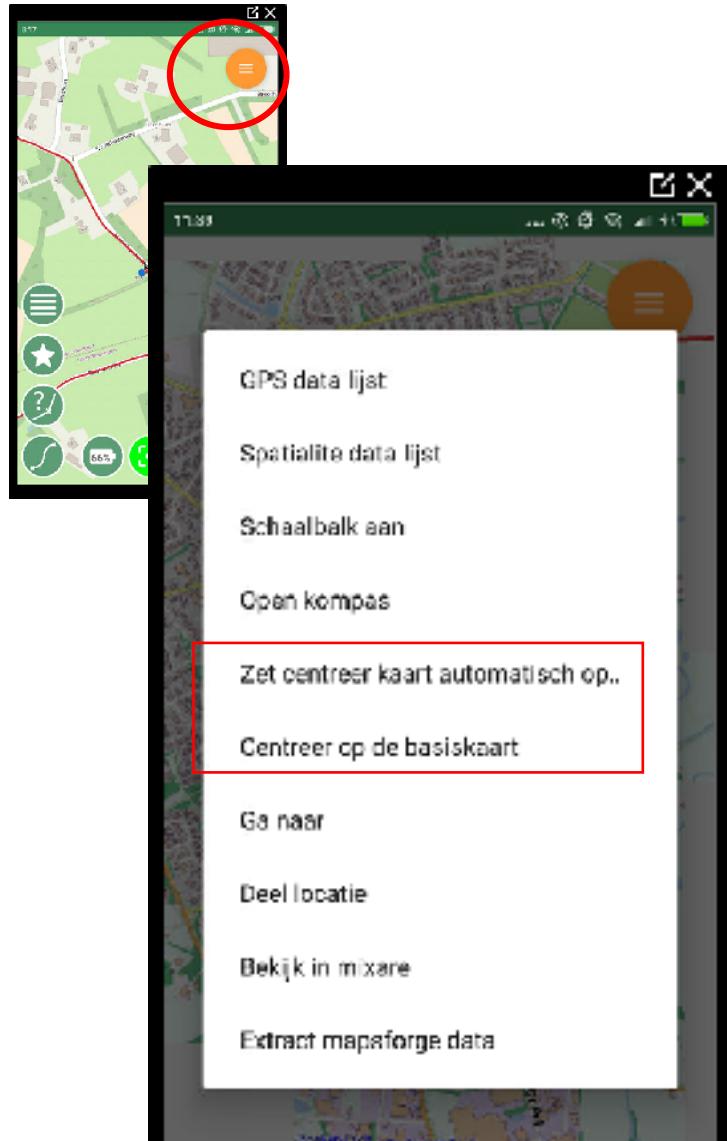
Kaartbeeld > Schaalbalk aan



Kaartbeeld > Open Kompas



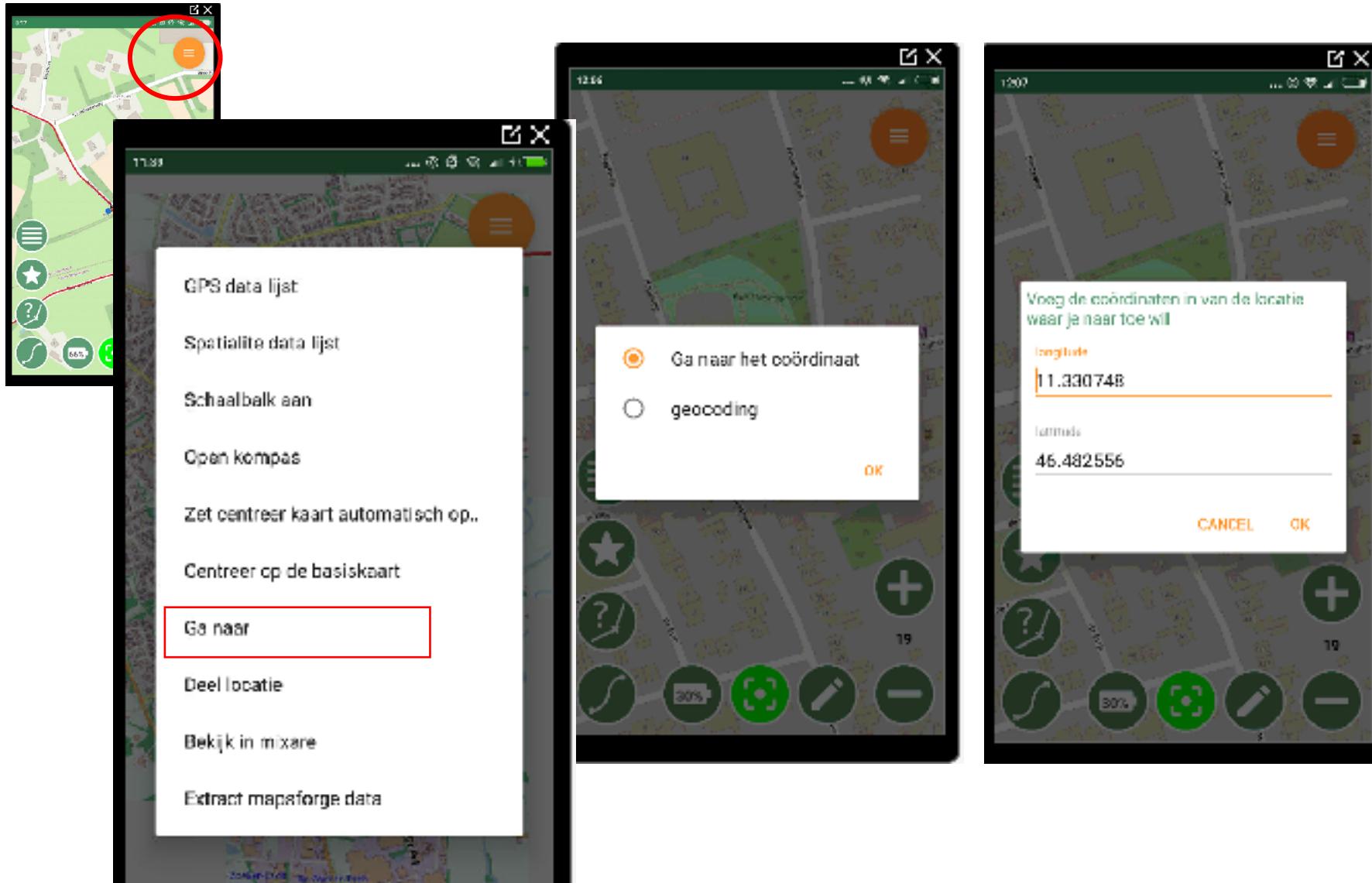
Kaartbeeld > Centreer automatisch op GPS



- Kaart centrereren op GPS aan/uit
- Centreer op de basiskaart

http://geopaparazzi.github.io/geopaparazzi/#_go_to

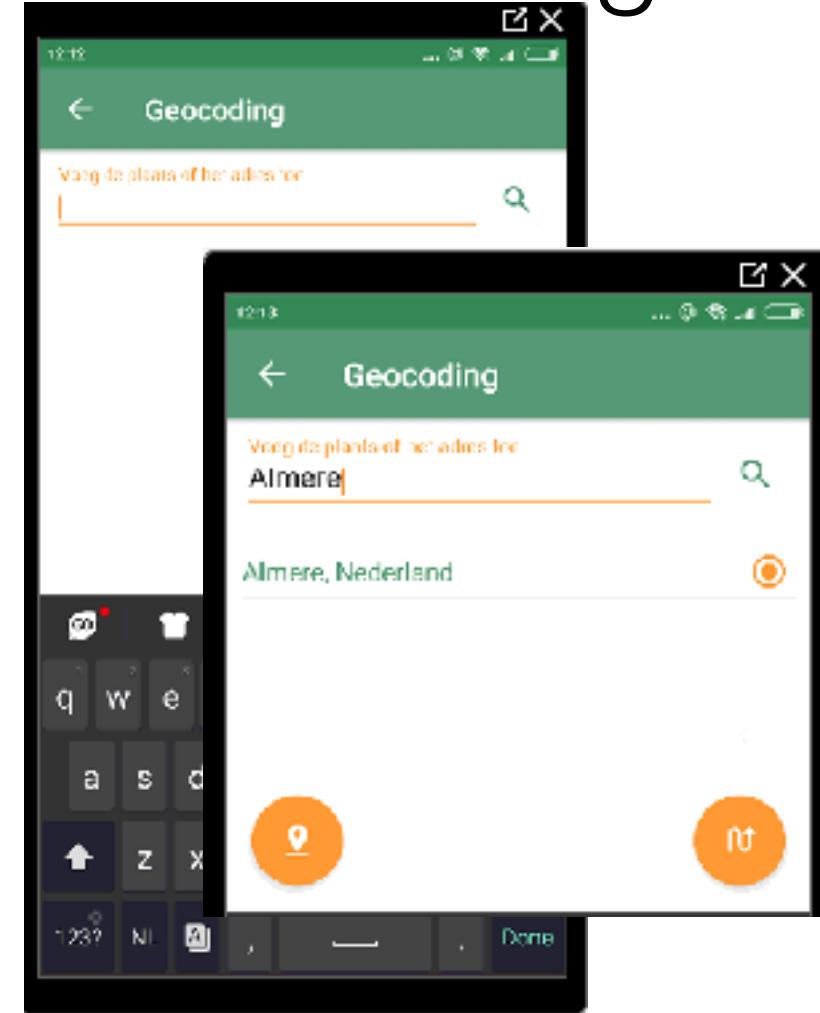
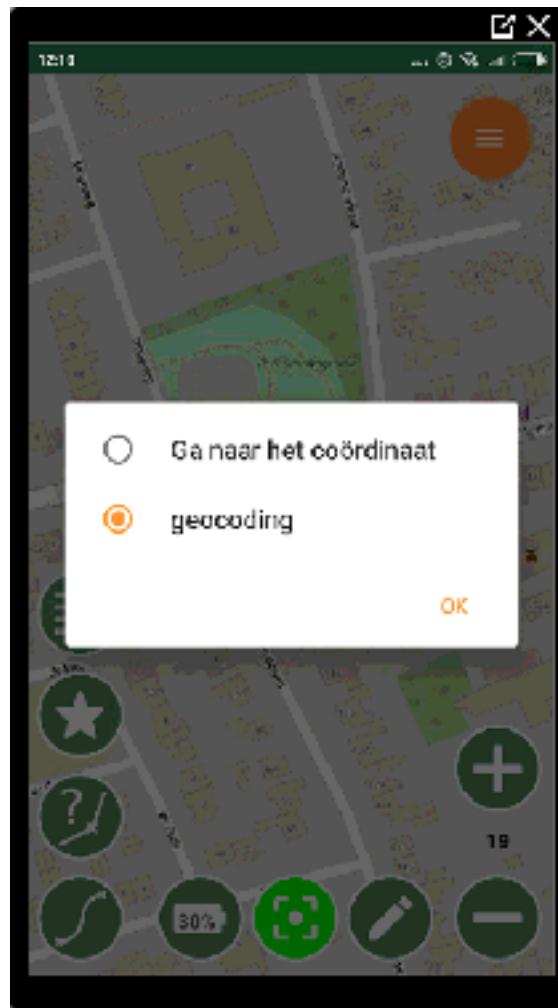
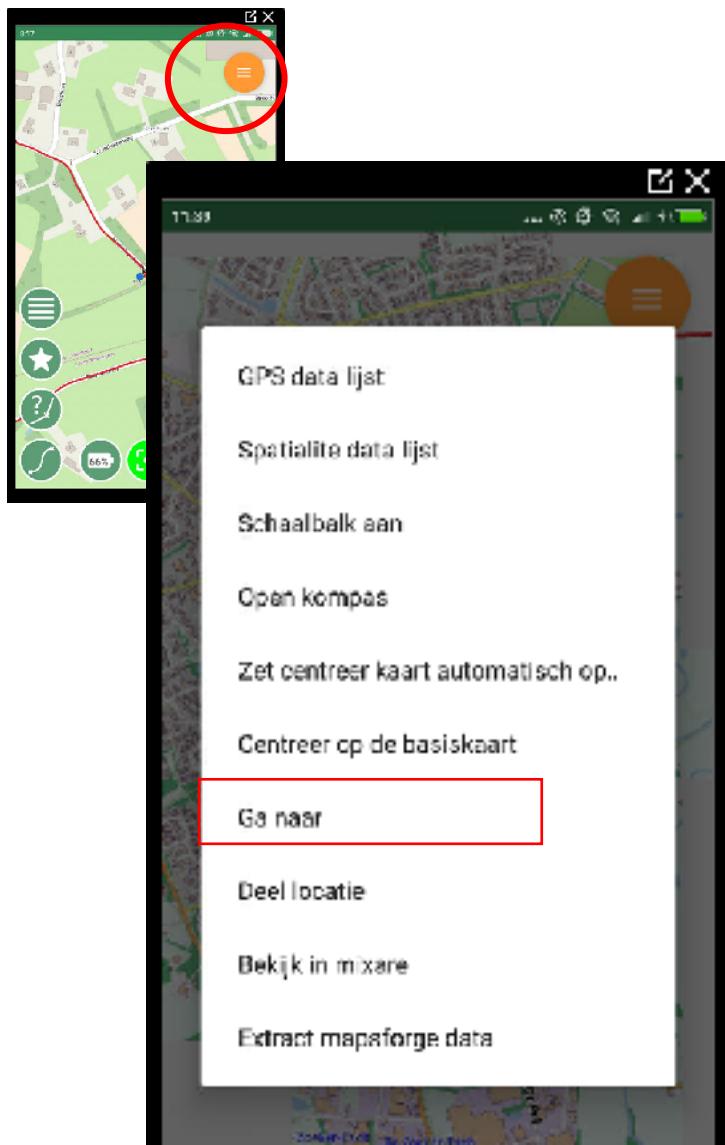
Kaartbeeld > Ga naar > Coord



http://geopaparazzi.github.io/geopaparazzi/#_go_to

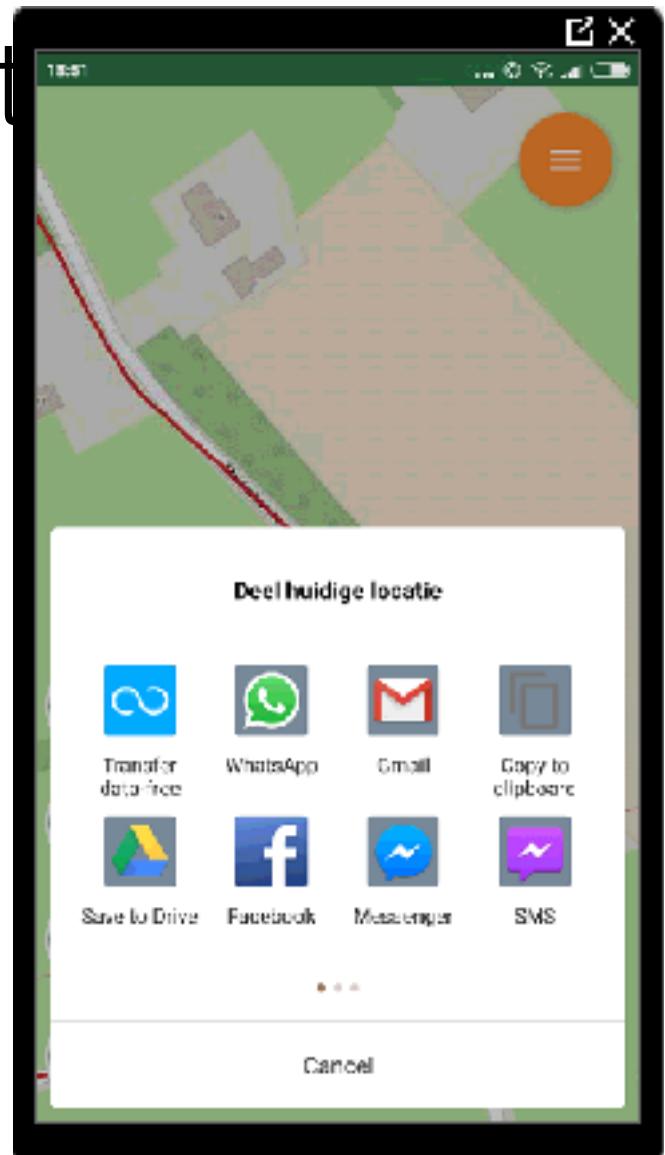
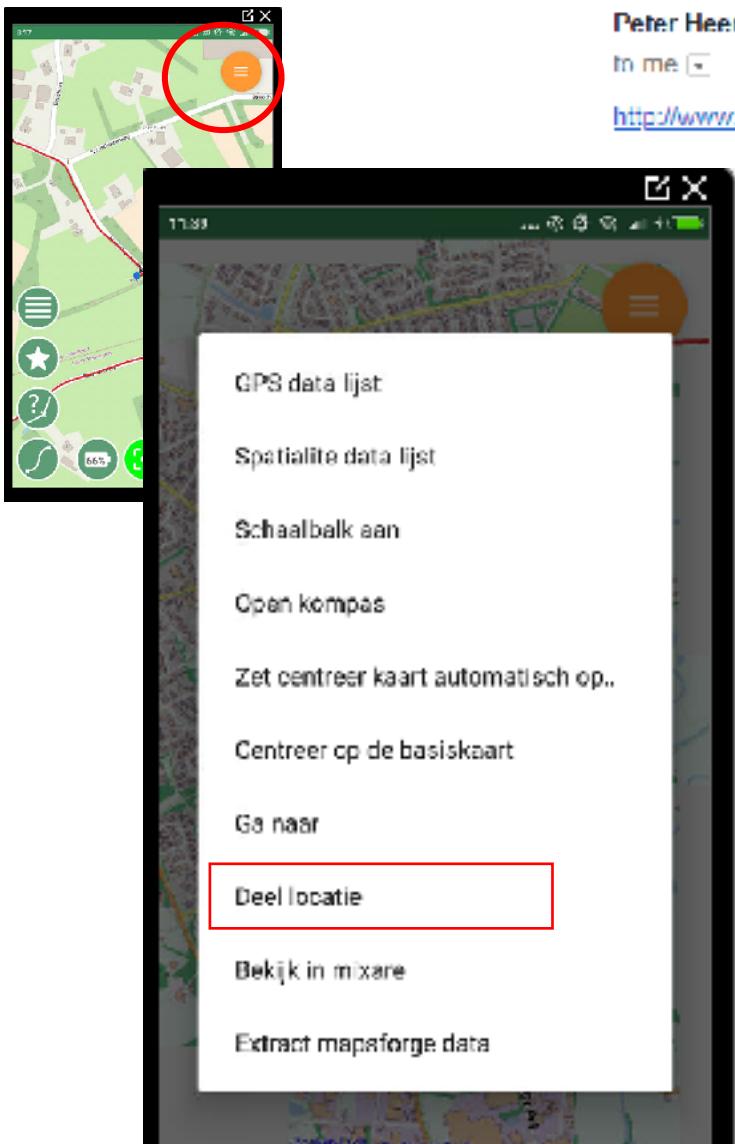
- Gebruikt [OSRM](#)
Route in GPS lijst

Kaartbeeld > Ga naar > Geocoding



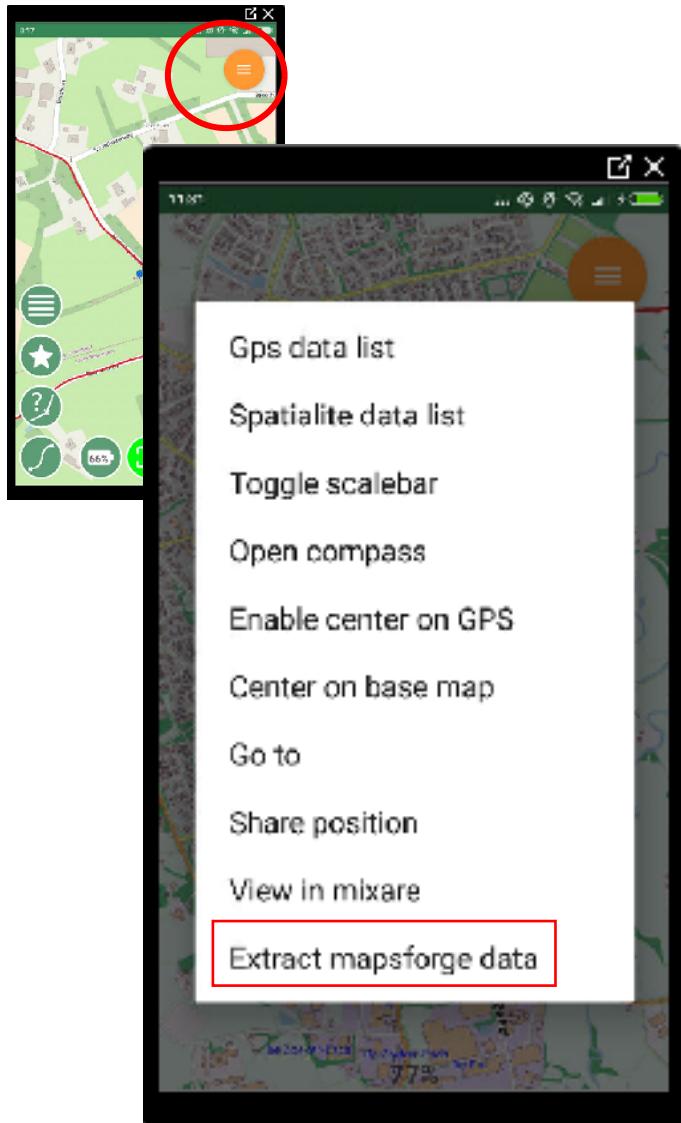
http://geopaparazzi.github.io/geopaparazzi/#_go_to

Kaartbeeld > Deel GPS Locatie



[http://geopaparazzi.github.io/geopaparazzi/
#_import_mapsforge_data](http://geopaparazzi.github.io/geopaparazzi/#_import_mapsforge_data)

Kaartbeeld > Extract Mapforge kaartdata



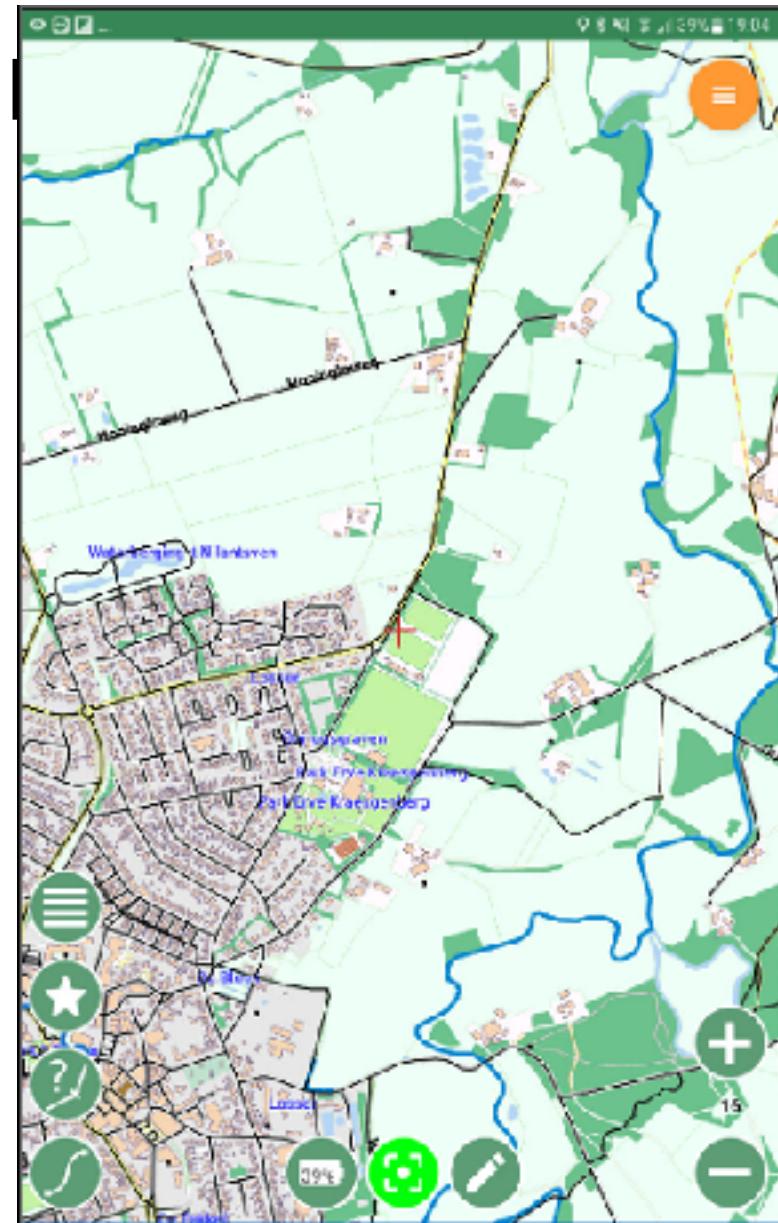
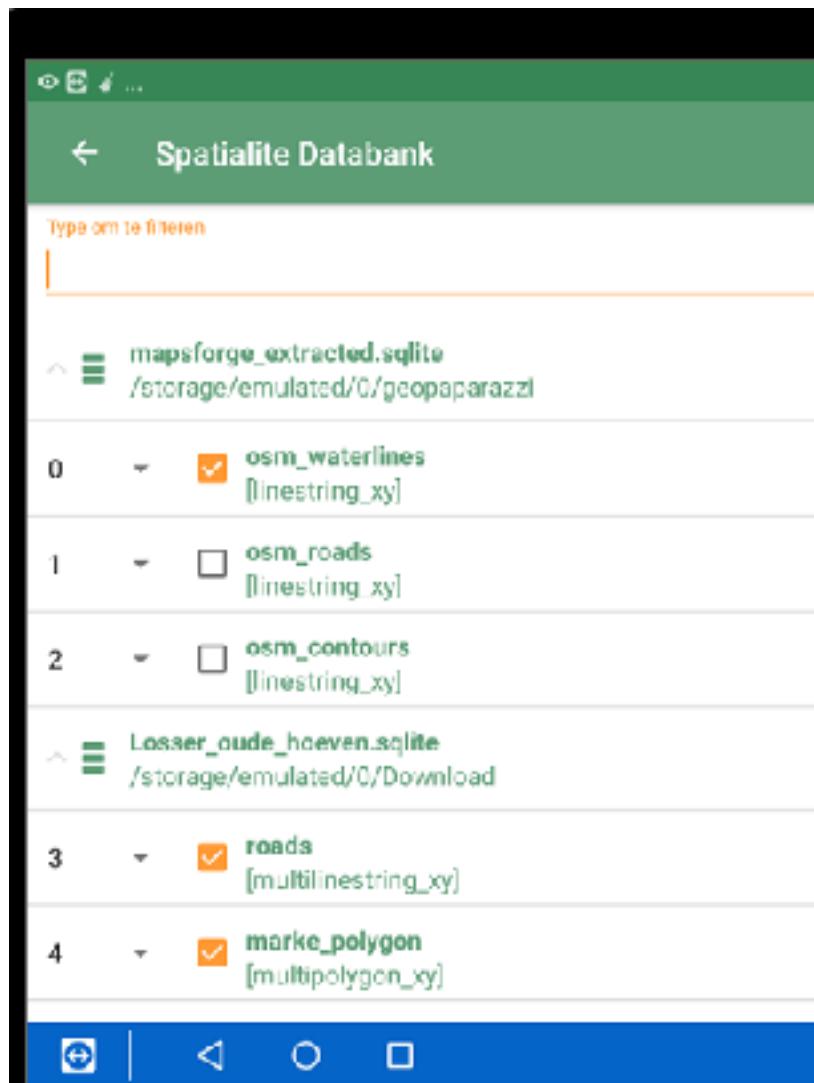
The 'Extract Mapsforge Data' configuration screen. At the top, there's a green header bar with the title 'Extract Mapsforge Data' and a back arrow icon.

The screen is divided into two main sections:

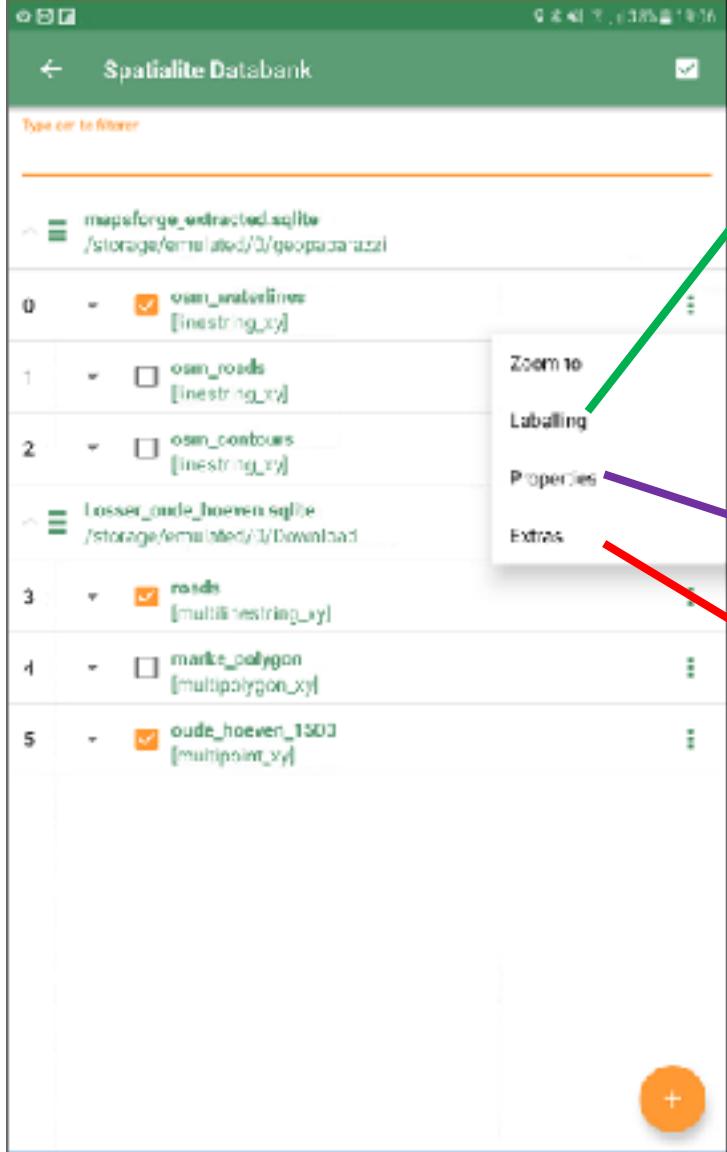
- Points of Interest**: Contains an unchecked checkbox for 'Extract POIs' and a text input field labeled 'Type om te filteren'.
- Lijnen**: Contains three checkboxes:
 - 'Sluit filter uit' (unchecked)
 - 'Extract lijnen' (unchecked)
 - 'Extract waterwegen' (checked, indicated by a checked orange box)
 - 'Extract contouren' (unchecked)

[https://geopaparazzi.github.io/geopaparazzi/
spatialite data list](https://geopaparazzi.github.io/geopaparazzi/#_spatialite_data_list)

Spatialite Databank aanzette



Spatialite Layer



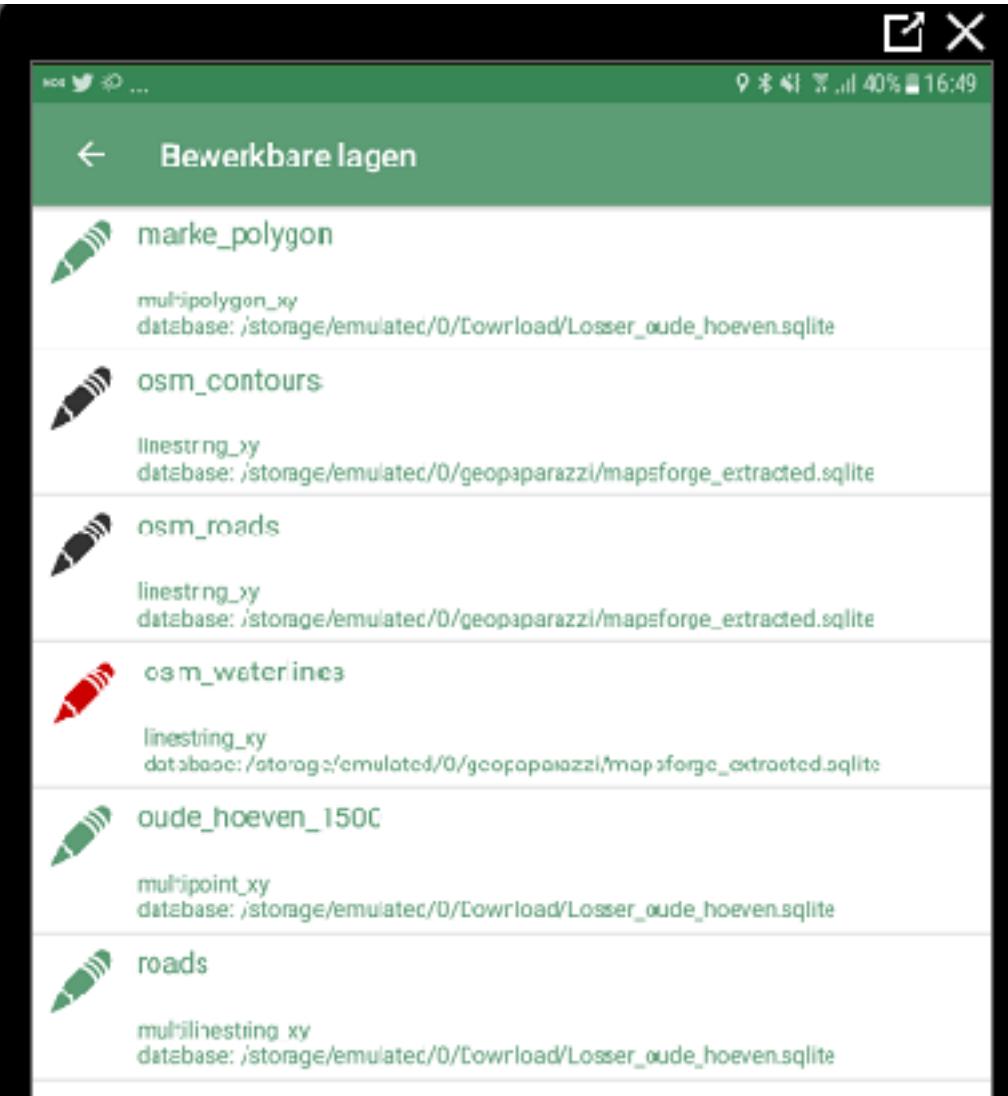
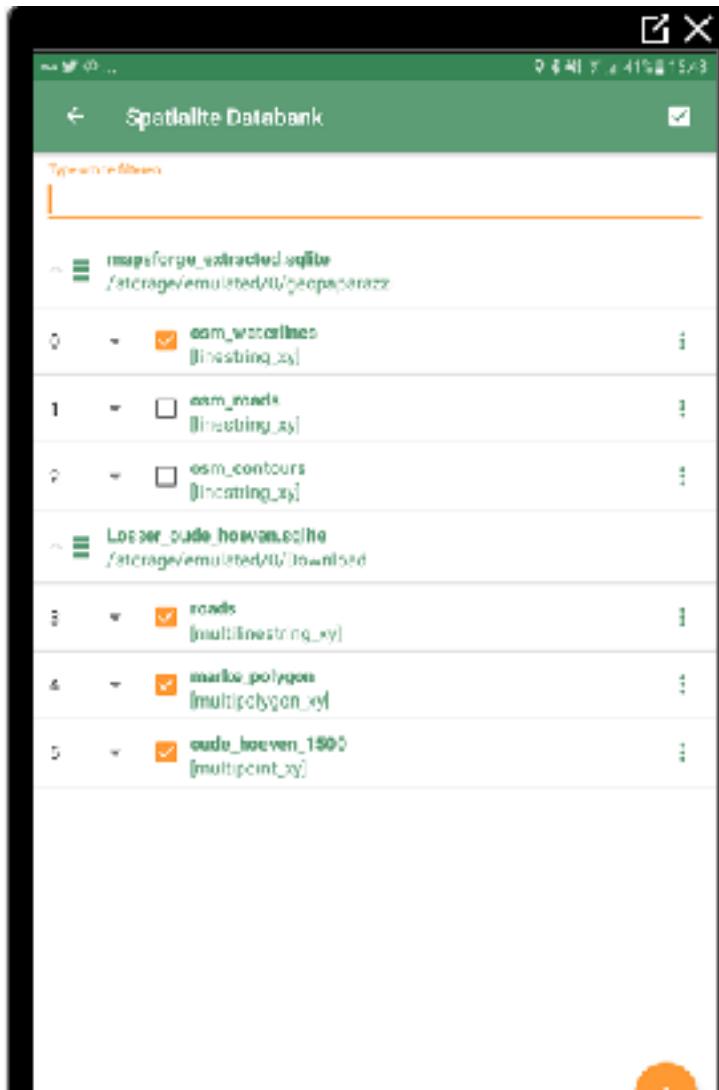
- Teken volgorde
- Zichtbaar maken
- Zoom to
- Labeling
- Properties
- Extra's



- Stroke Dash
- Zoomlevel visibility

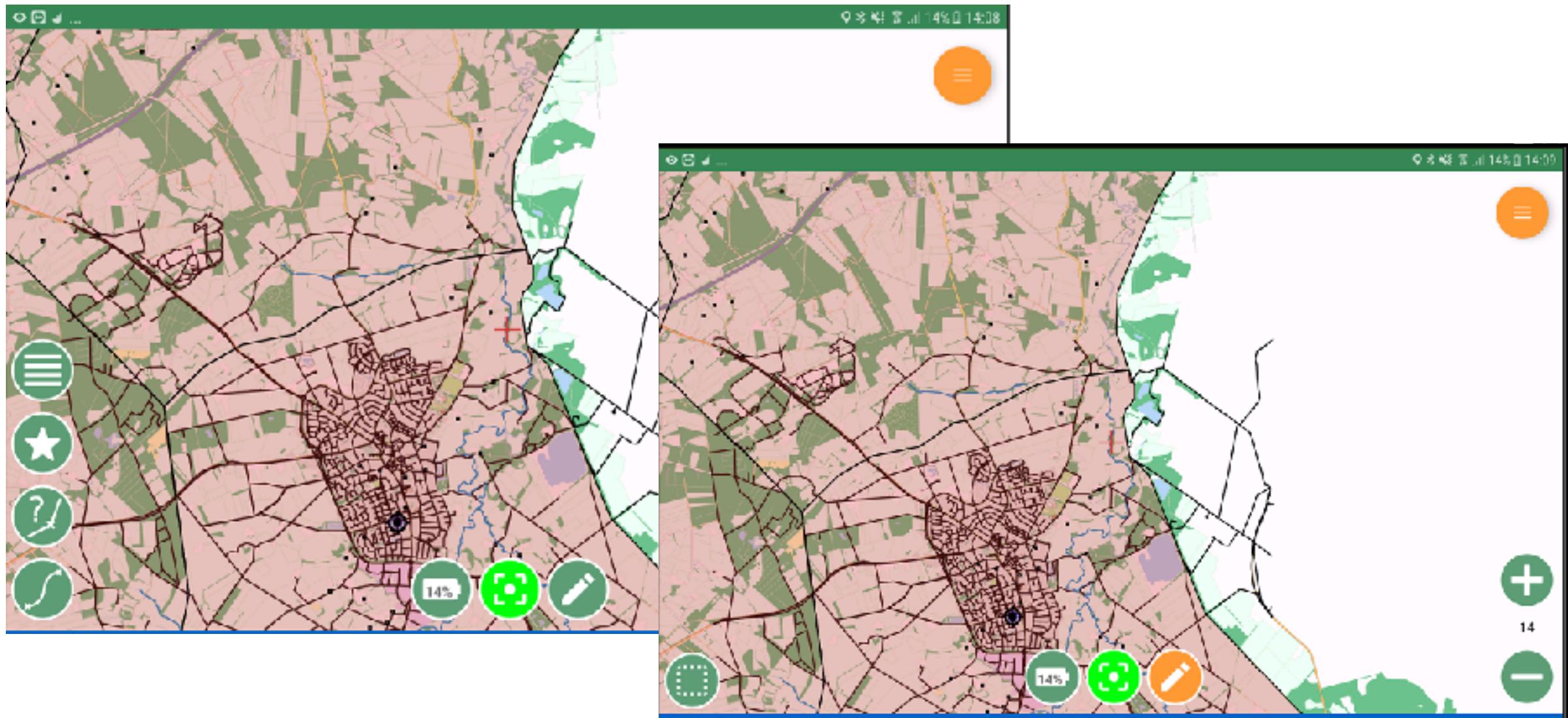
https://geopaparazzi.github.io/geopaparazzi/# vector_editing

Spatialite Layer > bewerken

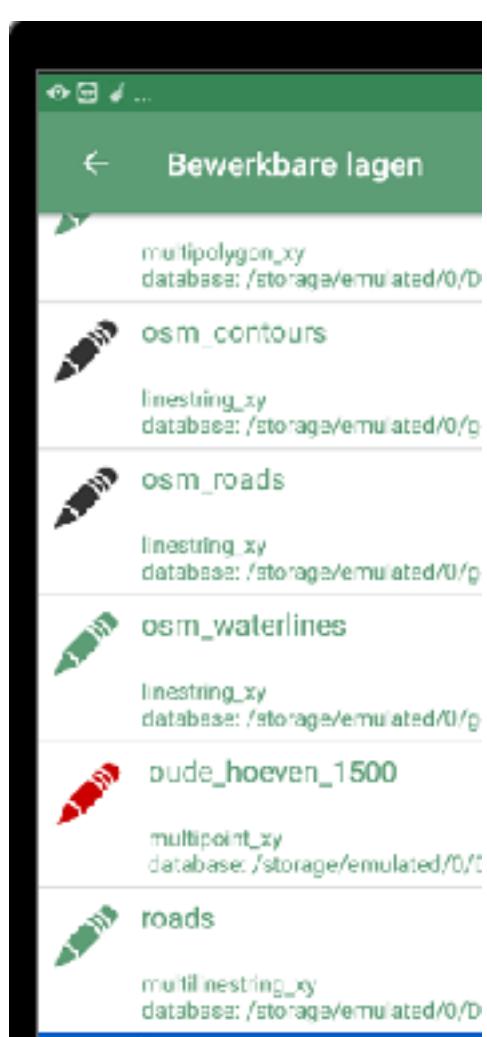


-  Niet zichtbaar
-  Bewerkbaar
-  Zichtbaar

Spatialite > Bewerken



Maak een Puntobject



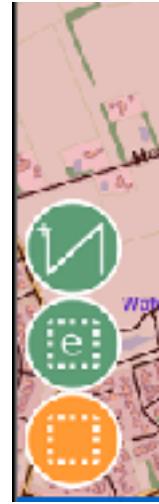
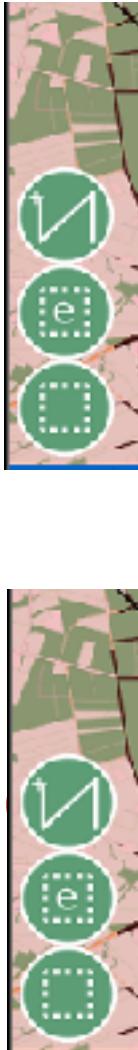
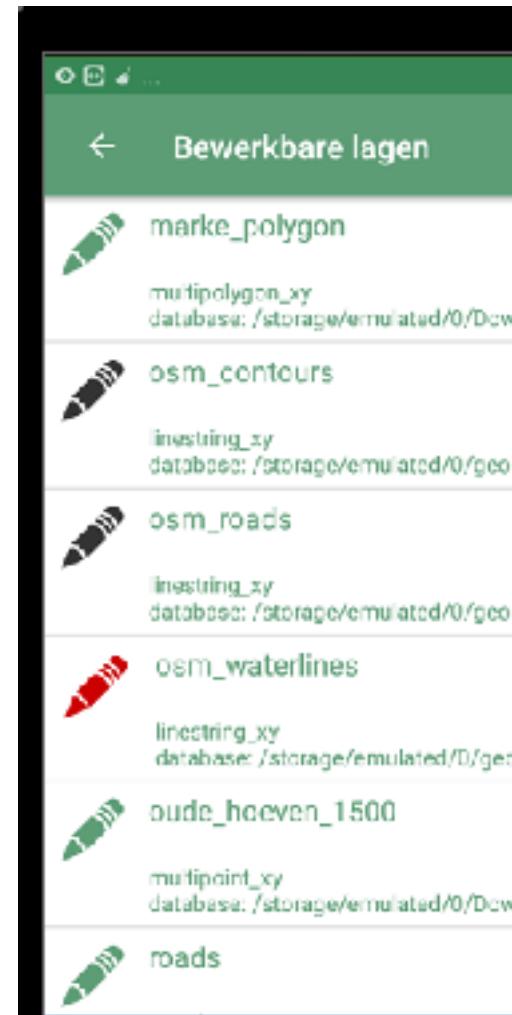
Selecteer object



Selecteer bewerkbaar object

- Punt op GPS locatie
- Punt op kaartmidden
- Punt op muisklik
- Een stap terug
- Een stap terug

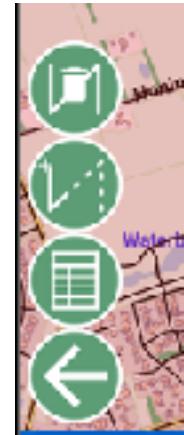
Maak of wijzig een lijn



Select object



Select bewerkbaar object

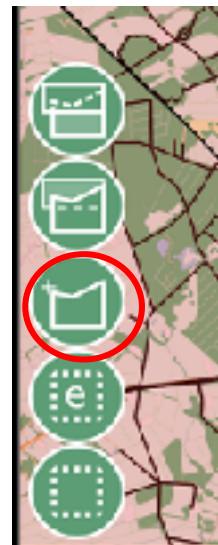
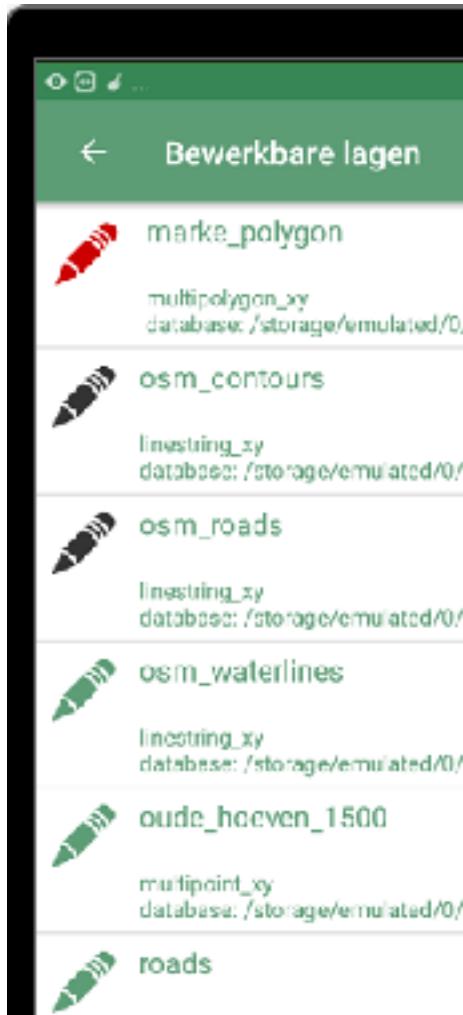


Teken Lijn



- Punt op GPS locatie
- Punt op kaartmidden
- Punt op muisklik
- Een stap terug
- Opslaan

Maak of Wijzig een Polygon



Tekен Polygon

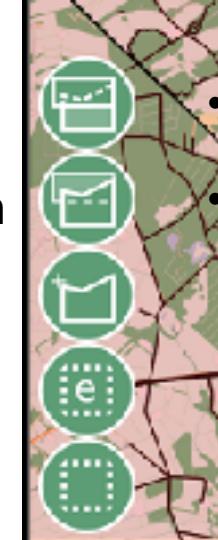


Select object



Select bewerkbaar
object

- Punt op GPS locatie
- Punt op kaart midden
- Punt op muisklik
- Een stap terug
- Een stap terug



Polygoon uitknippen
Polygoon samenvoegen

[https://geopaparazzi.github.io/geopaparazzi/
#_geopaparazzi_gvsig](https://geopaparazzi.github.io/geopaparazzi/#_geopaparazzi_gvsig)

gvSIG desktop , online, Mobile

- <http://www.gvsig.com/en>
 - Version 2.4.0
 - https://www.youtube.com/watch?v=OcyhevNxTC8&frags=wn&ab_channel=gvsig
- gvSIG
 - Plugin voor gvSIG desktop 2.4.1
 - Installation Hortonmachine
 - http://www.hortonmachine.org/hydrologis4gvsig_quickstart/hydrologis4gvsig_quickstart.html#the_geopaparazzi_plugins
- gvSIG Mobile
 - https://www.youtube.com/watch?time_continue=22&v=vQA1njU1Ynw&ab_channel=gvsig
 - Google Play version 0.2.1 = Geopaparazzi 5.50
 - <https://play.google.com/store/apps/details?id=org.gvsig.gvsigmobile>



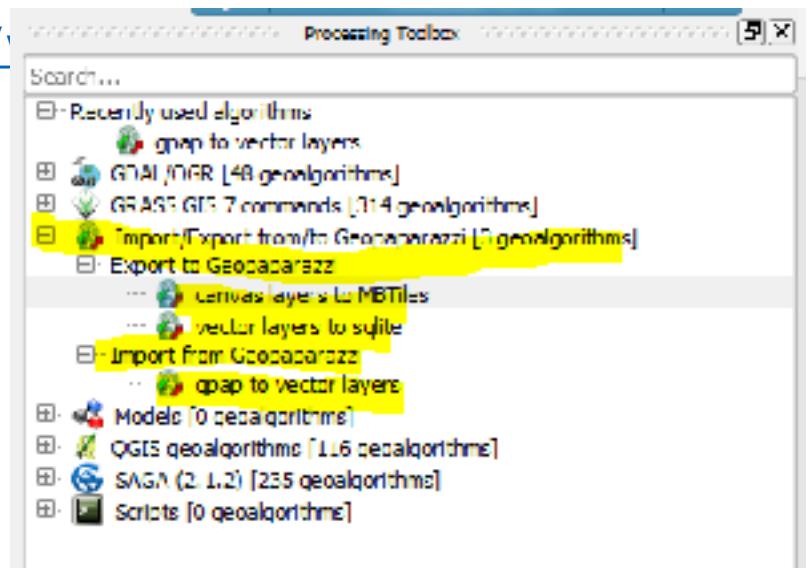
gvSIG desktop plugin to create forms

- <https://blog.gvsig.org/2018/02/21/gvsig-desktop-2-4-is-already-available/>
 - [New features](#)
- <https://blog.gvsig.org/2018/05/08/gvsig-desktop-plugin-to-create-forms-for-field-data-gathering-with-gvsig-mobile/>
- <https://blog.gvsig.org/2018/03/22/how-to-use-gvsig-mobile-open-source-gis-for-field-data-gathering/>

https://geopaparazzi.github.io/geopaparazzi/#_qgis

QGIS 2-18.3 / QGIS 3 and geopaparazzi

- Use KMZ export file
- Use Plugin
 - IOGeopaparazzi
 - Wiki
 - <https://github.com/eachiaradia/IOGeopaparazzi/>
 - Ggap to vector layers
 - Vector layers to sqlite
 - Canvas layers to MBTiles
 - QGIS 3 update



STAGE and Geopaparazzi

- https://geopaparazzi.github.io/geopaparazzi/# stage_0_7
 - Create mbtiles
 - Export geopap projects to shapefiles, notes, profiles and other details
 - Other
 - Spatialite GUI (create spatialite databases from shapefiles)
 - OGR
 - GDAL

Links

- <http://geopaparazzi.github.io/geopaparazzi/>
 - Handleiding in engels , versie 5.3.0 (maar is wel aangepast deels 5.6.0)
- http://www.hortonmachine.org/hydrologis4gvSIG_quickstart/hydrologis4gvSIG_quickstart.html
 - Handleiding Hortonmachine Spatial Toolbox
 - Geopaparazzi Plugins gvSIG
 - Import a Geopaparazzi survey
 - Prepare background data
 - Geopaparazzi Project Browser

Github

- Code
 - <https://github.com/geopaparazzi/geopaparazzi>
- User manual
 - <https://github.com/geopaparazzi/usermanual/tree/master/userguide>

Media

- Have cool userstories to share? Join the facebook group:
 - Geopaparazzi Users Around The World!
 - <https://www.facebook.com/groups/350587351732480>
- Want to translate it in your language?
 - NL is al 100% vertaald
 - <https://www.transifex.com/projects/p/geopaparazzi/>
- News about Geopaparazzi:
 - <http://jgrasstechtips.blogspot.it/search/label/geopaparazzi>

Cloud Profiles

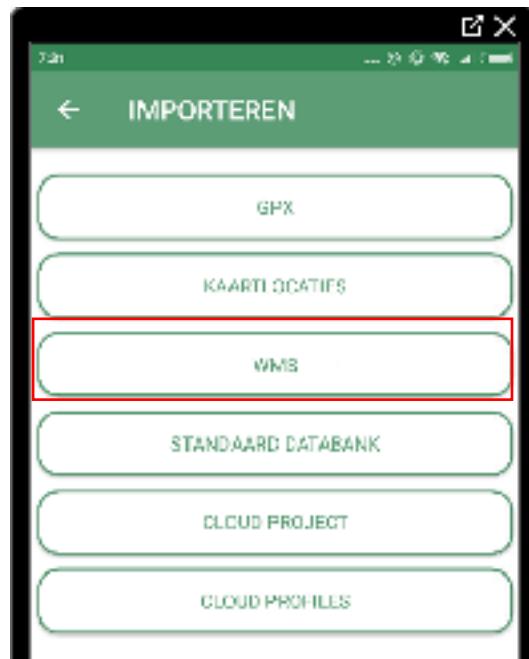
- http://geopaparazzi.github.io/geopaparazzi/#_cloud_profiles_2
- JSON
- Webserver
 - Download
 - Geopap Projectdatabase (SQLite)
 - Basiskaart(en)
 - Spatialite Overlays
 - Formulier(en) voor notities (JSON)
 - Andere , Foto's Videos, PDFs, ...
 - Activeer
 - Herstart Geopaparazzi
 - Start gebruik

PDOK levert WMS kan ik die integreren

- <http://pdok-ngr.readthedocs.io/services.html#web-map-service-wms>
 - Alle OGC WMS op NGR
- [http://www.nationaalgeoregister.nl/geonetwork/srv/dut/catalog.search#/search?
facet.q=protocol%2FOGC%253AWMS&isChild='false'&resultType=details
&fast=index&_content_type=json&from=1&to=20&sortBy=relevance](http://www.nationaalgeoregister.nl/geonetwork/srv/dut/catalog.search#/search?facet.q=protocol%2FOGC%253AWMS&isChild='false'&resultType=details&fast=index&_content_type=json&from=1&to=20&sortBy=relevance)
 - NGR WMS datasets Kadaster
- [http://www.nationaalgeoregister.nl/geonetwork/srv/dut/catalog.search#/search?
facet.q=protocol%2FOGC%253AWMS%26type%2Fdataset%26orgName%2FKadaster
&isChild='false'&resultType=details&fast=index&_content_type=json
&from=1&to=20&sortBy=relevance](http://www.nationaalgeoregister.nl/geonetwork/srv/dut/catalog.search#/search?facet.q=protocol%2FOGC%253AWMS%26type%2Fdataset%26orgName%2FKadaster&isChild='false'&resultType=details&fast=index&_content_type=json&from=1&to=20&sortBy=relevance)

Importeren WMS

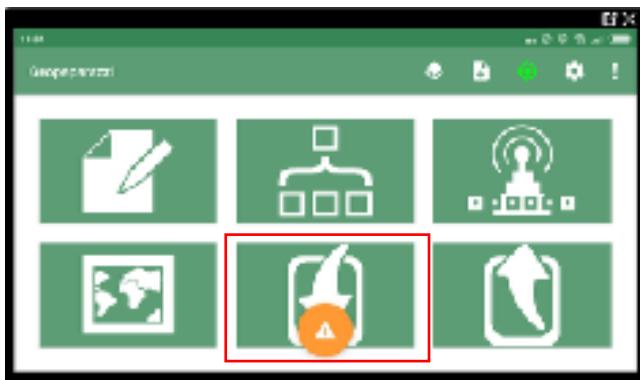
EPSG:4326 projection



GetCapabilities URL
`iter.nl/luchtfoto/rgb/wms?&request=GetCapabilities&service=WMS`

AVAILABLE WMS LAYERS

- Luchtfoto 2016 Ortho 25cm RGB
- Luchtfoto 2017 Ortho 25cm RGB
- Luchtfoto Actueel Ortho 25cm RGB



WMS mapurl bestand is succesvol toegevoegd aan de kaart tegels
sources:Actueel_ortho25.mapurl

http://geopaparazzi.github.io/geopaparazzi/#_import

WMS Luchtfoto

NGR Nationaal Georegister

Home Zoeken Kaart Actueel Over NGR Voor ontwikkelaars

40 resultaten gevonden

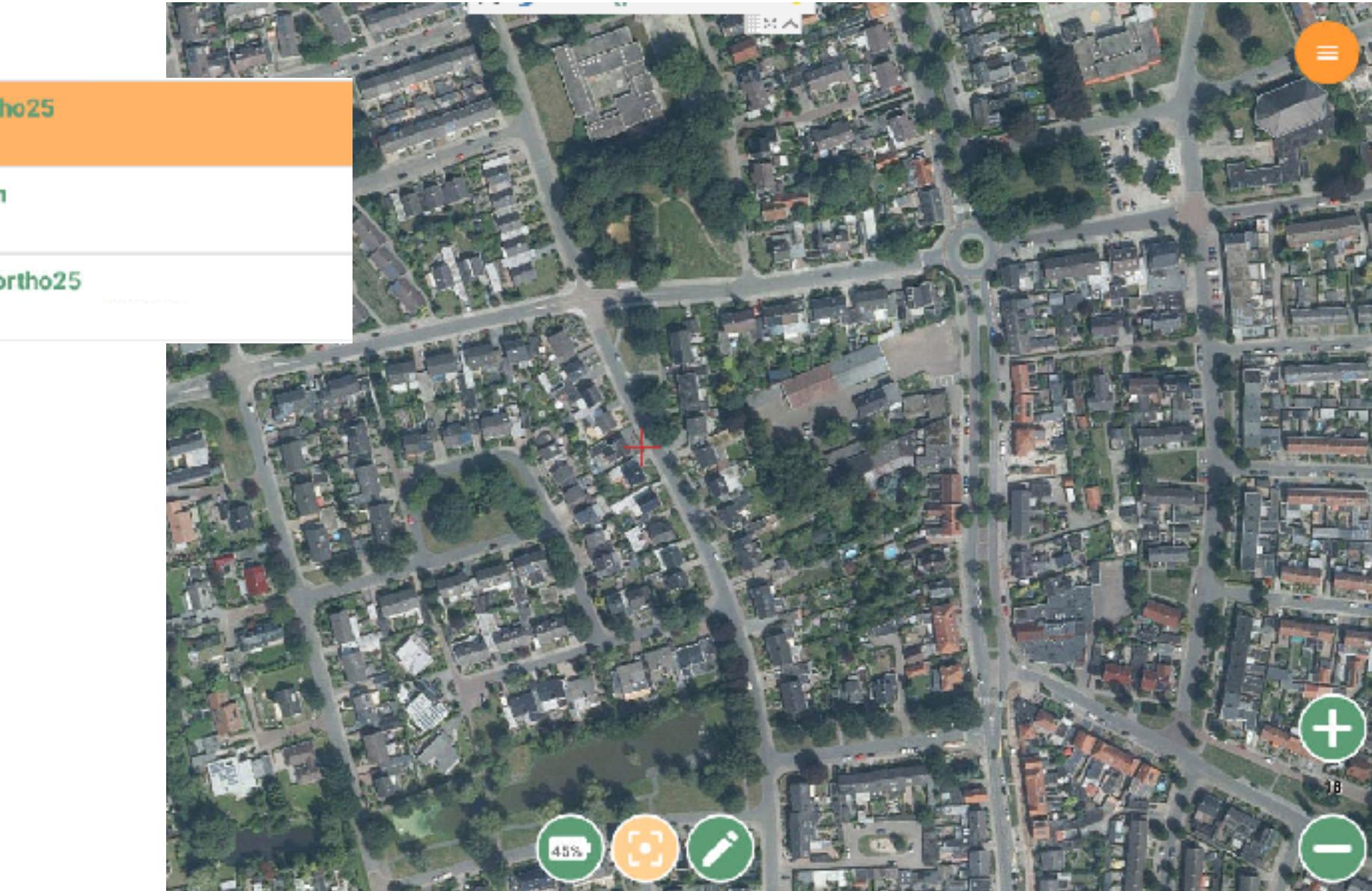
OGC-WMS ✘ Dataset ✘ Kadaster ✘

Luchtfoto 2016 25cm RGB open data 

Organisatie: Kadaster
Publicatie datum: 2016-05-15
Onderwerp(en): [Referentie materiaal voor bedekking](#)

De orthofotomozaïeken zijn een samenstelling van afzonderlijke orthofoto's, in principe van de centrale gedeelten van iedere orthofoto. Daardoor is de omvulling in de mozaïeken zo klein mogelijk gehouden. De orthomozaïeken zijn landsdekkend. Deze luchtfoto's zijn beschikbaar als open data. Voor deelnemende partijen is er in 2016, naast de definitieve...

[https://geodata.nationaalgeoregister.nl/luchtfoto/rgb/wms?
&request=GetCapabilities&service=WMS](https://geodata.nationaalgeoregister.nl/luchtfoto/rgb/wms?&request=GetCapabilities&service=WMS)



2017_ortho25

[Mapurl]

hoogtelijn

[Mapurl]

Actueel_ortho25

[Mapurl]

Add WMS service to Geopaparazzi

- <https://www.youtube.com/watch?v=vQA1njU1Ynw&feature=youtu.be&t=2518>

Geoanalytic

- Geoserver
- [Https://github.com/geoanalytic/cookiecutter-geopaparazzi-server](https://github.com/geoanalytic/cookiecutter-geopaparazzi-server)
- <https://geoanalytic.github.io/>
- http://geopaparazzi.github.io/geopaparazzi/#_geopaparazzi_cloud_server
- <https://geoanalytic.github.io/>

http://geopaparazzi.github.io/geopaparazzi/# the_geopaparazzi_survey_server

The Geopaparazzi Survey Server



The Geopaparazzi Survey Server

HydroLoGTS S.r.l. Version 1.01, 2017 07 03

[http://geopaparazzi.github.io/geopaparazzi/gss/
geopaparazzi_survey_server.html](http://geopaparazzi.github.io/geopaparazzi/gss/geopaparazzi_survey_server.html)

<http://jgrasstechtips.blogspot.com/2018/07/geopaparazzi-survey-server.html>

The Geopaparazzi Survey Server (2)

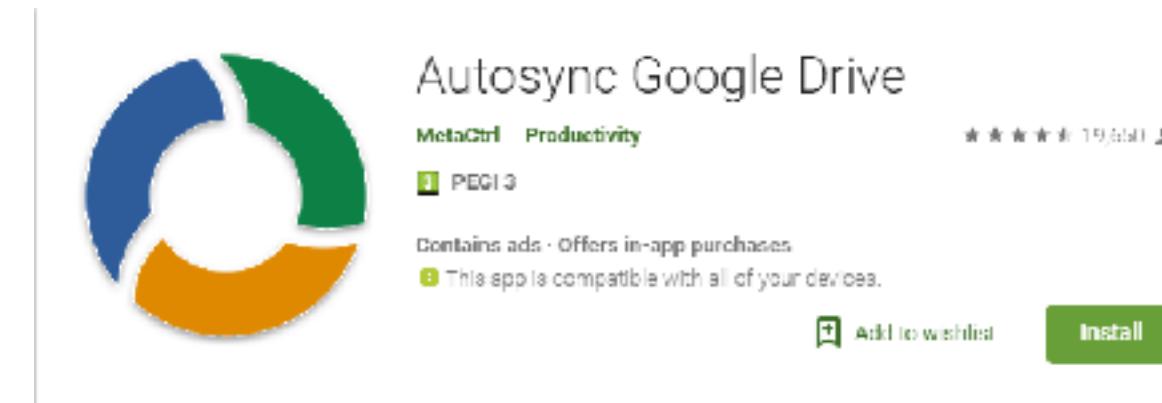
- Geopaparazzi Survey Server (GSS)
 - Webapplicatie
 - Gebruikers kunnen het project synchroniseren naar een centrale server
- Server
 - Docker image
 - <https://hub.docker.com/help/>
 - Alleen op LINUX
- Geopaparazzi Survey Server Sync (GSSS)
 - Android App
 - Beschikbaar op Google play
 - <https://play.google.com/store/apps/details?id=com.hydrologis.gssmobile>
 - Unique Device ID

Thank you for your attention !



Google Drive sync

- <https://play.google.com/store/apps/details?id=com.ttxapps.drivesync>
- <https://metactrl.com/userguide/>



Google Drive sync

Android	Sync actie		Google Drive	
Kaarten	Alleen Downloaden	←	Kaarten	.map
Geopaparazzi/export	Upload dan verwijderen	→	/Rapporten	.pdf . images
Formulieren	Alleen Downloaden	←	/Farwick Formulieren	.json
FWnaam1	Twee weg	← →	/FWnaam1	.gpap .journal
FWnaam2				
	<ul style="list-style-type: none">• Sync alleen in WIFI• Kaarten update• Formulier wijzigingen• Export<ul style="list-style-type: none">• PDF rapporten			