

On the field: Gaia GPS

Summer School on Digital Humanities

Course material available at

https://bitbucket.org/augusto_ciuffoletti/digitalmaps4ssdh

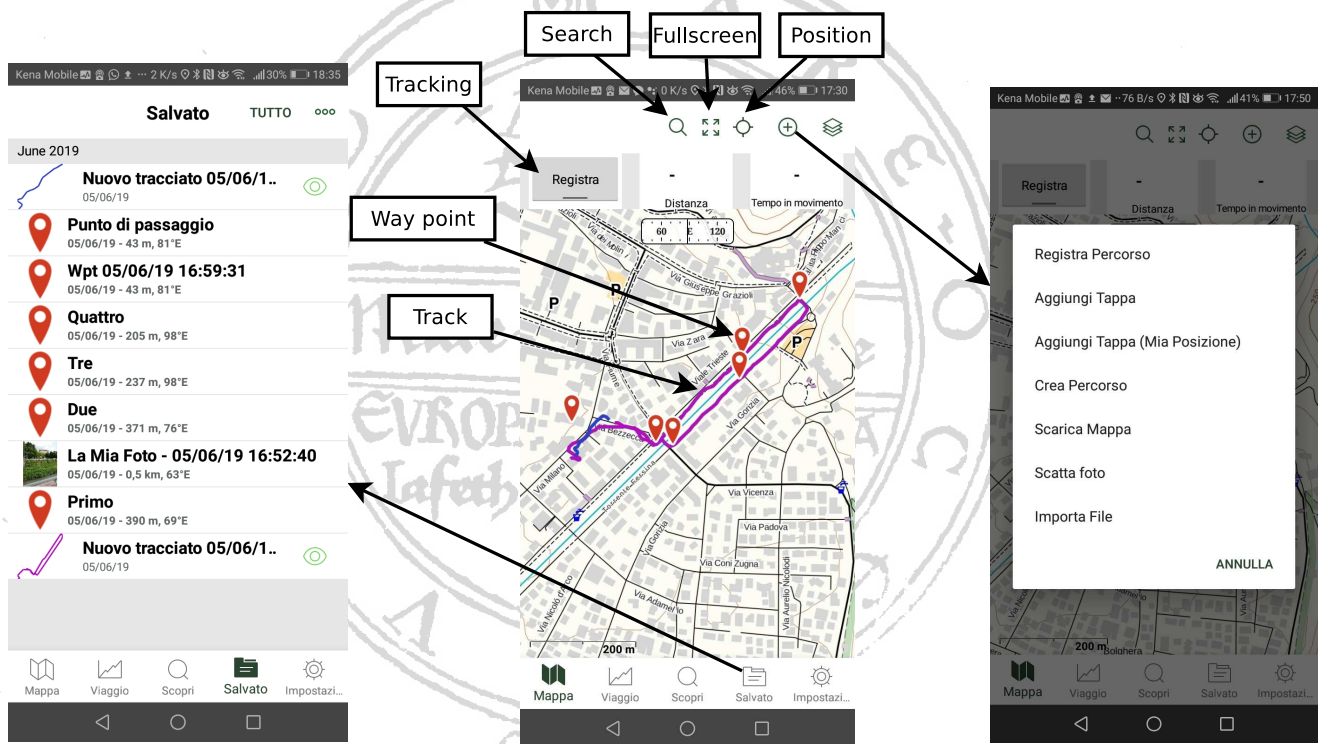
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On the field: Gaia GPS

- Gaia GPS is one of the many apps that are useful for on field GIS
 - ...and one of the few that runs on both Android and iPhone
- You need to register to the service (use a free account for practicing)
- The activities of interest:
 - record a live track of an itinerary (as a **line** feature)
 - record waypoints (as **point** features)
 - associate written annotations (as point **attributes**)
 - associate pictures to points (as point **attributes**)
- Gaia GPS allows to perform all such activities
- Features can be exported as GPX, KMZ or CSV files in a cloud storage
- A companion Web service helps processing features

Gaia GPS: the *main* screen



Recording a track with Gaia GPS

- Start recording a track with the **Record** button
 - running time is displayed
- As you walk, record waypoints and take pictures using the **+** button
 - right screen in figure
 - add a note to waypoints
 - a waypoint may be associated with pictures
- You can pause using the button showing time
- Use the same button to terminate and save the track
- Access recorded tracks using the **Saved** button
 - left screen in figure
- Tapping on a feature you can export in various formats (GPX, KML, CSV)
- Share using social/cloud services or the **GaiaGPS cloud storage**

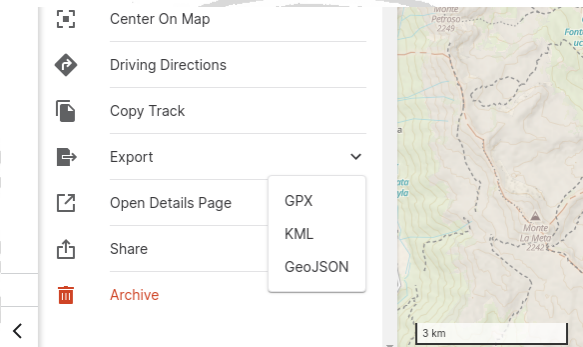
Processing the track on the Web service

- If you share your GPX using the **GaiaGPS cloud storage** you can easily view your track on a computer
- Enter the service at <https://www.gaiagps.com/> using your Gaia GPS credentials
- Select your track browsing your profile
- Click on a track to view the map and update details

Gaia GPS Web Service


The screenshot displays the Gaia GPS web service interface. On the left, a sidebar menu includes options like 'Map', 'Overlays', 'Layers', 'Saved Items', 'Preferences', 'Create', 'Waypoint', 'Route', 'Area', 'Import Data', 'Print Map', and 'Help'. The main content area shows a track titled 'Nuovo tracciato 19/08/20' with a timestamp of '12:33:37' and a date of '19 agosto 2020, 12:33'. Below this, statistics are listed: Distance 30.3 km, Ascent 391 m, and Total Time 1h 6m. A 'Map Visibility' toggle is set to 'ON'. The track is visible on a topographic map of a mountainous region, with a red line indicating the route. The map includes labels for various locations such as Villetta Barrea, Lago di Barrea, and Scontrone. A search bar is at the top of the map area, and a scale bar indicates 3 km. The bottom right corner of the map shows the Gaia GPS logo and OpenStreetMap contributors.

Import a Gaia GPS track in qGis



- Export your track **data**
 - select the GPX format
- Open qGis and create a new project (or use an old one)
- Layer -> Add layer -> Add vector
- Browse to find your GPX file
- Add, select all, OK and close the form
- Your track is now on qGis

Import a Gaia GPS track in uMap

- Download your track **data** as above
- Enter the uMap Web service
- Create a new map (or use an old one)
- Enable editing (if disabled)
- Press the import button on the right 
- Browse to find your GPX file
- ... and import (in a new layer or in an old one)
- Your track is now on uMap