

# TopoDroid geo-location

Marco Corvi

[marco.corvi@gmail.com](mailto:marco.corvi@gmail.com)

2017

# Geolocation

- Survey info-window button
- Stations with geographical coords
  - GPS
  - Manually (external GPS)
  - MobileTopographer
- latitude longitude altitude
  - WGS84
  - Geoid altitude (ECGM)
- Can convert into other CRS (Proj4)
- Can view on maps

The screenshot shows a mobile application interface for managing geolocation data. At the top, there is a header labeled "Locations" with three icons: a location pin, a plus sign, and a download arrow. Below the header, the coordinates "1 9°09'12.94 44°22'48.62 56 [wgs 104]" are displayed. The main content area is titled "Location edit" and contains a table of data:

|             |           |
|-------------|-----------|
| Longitude   | 9.153597  |
| Latitude    | 44.380175 |
| H ellipsoid | 105       |
| H geoid     | 57        |

Below the table, there is a text input field containing the number "1" and a text input field containing the word "entrance". Below these fields, there is a "Magn. decl." label, a text input field containing "2.3172", and a checkbox. At the bottom of the form, there are three buttons: "Convert", "View", and "Save". At the very bottom of the screen, there is a "Delete" button.

# GPS

- Select station
- Optional comment
- Start GPS
- When green stop
- Save

Location GPS

3

second entrance

0 View Save

Longitude 8°51'54.94  
Latitude 44°24'54.16  
H ellipsoid 23  
H geoid -21

# Manual data

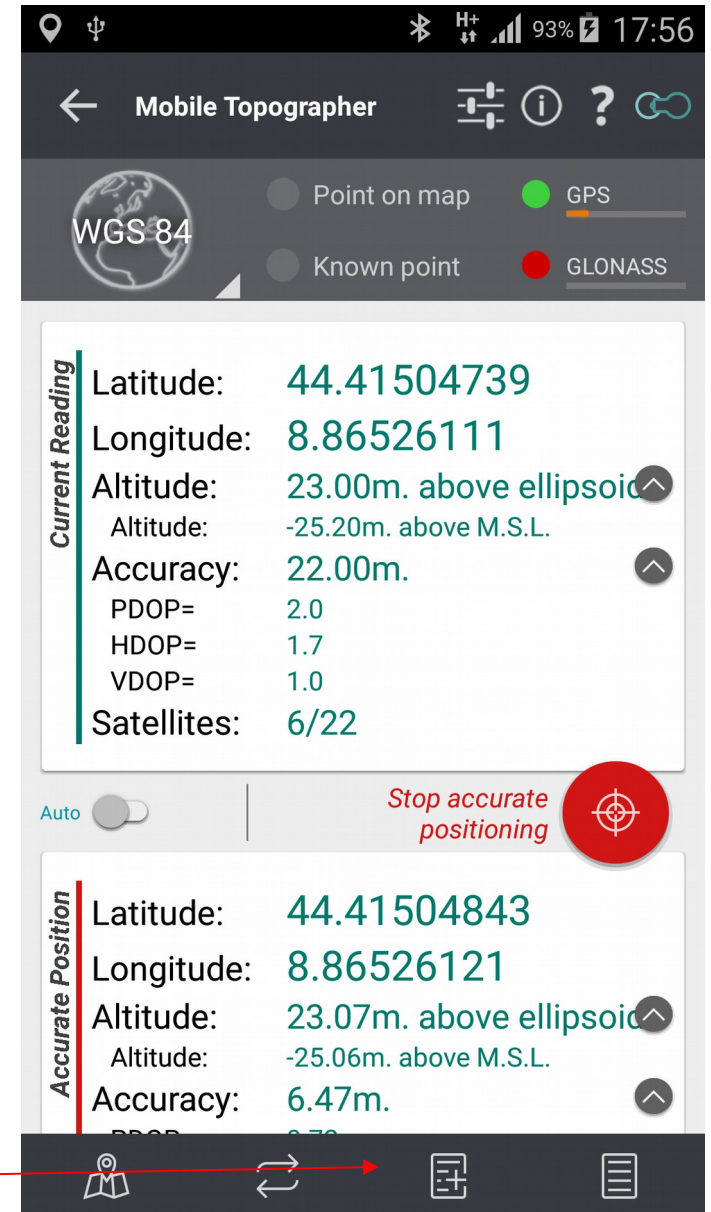
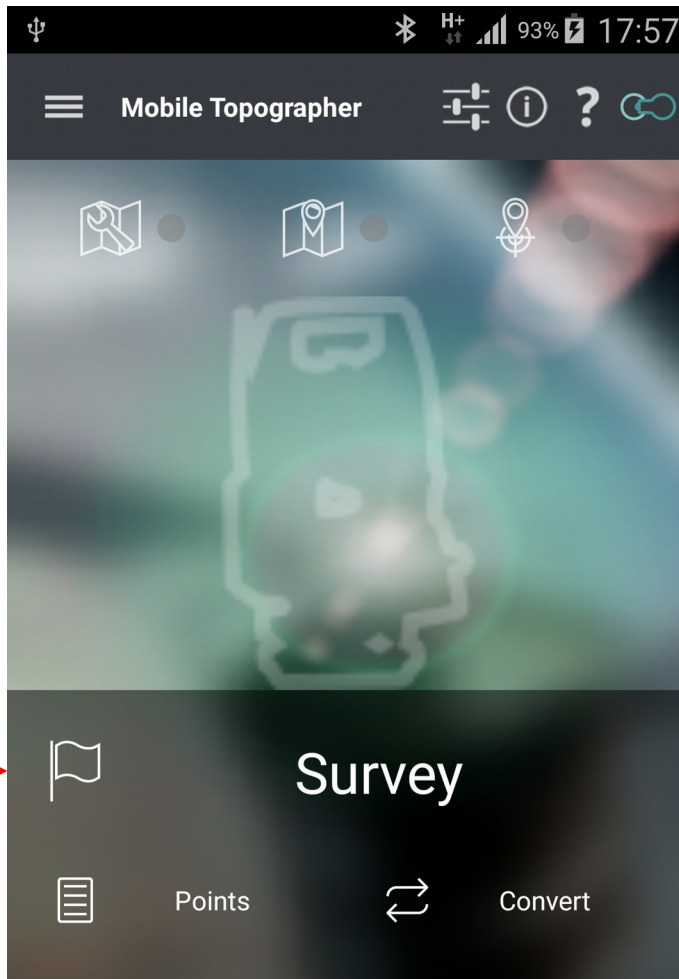
- Station
- Coordinates
  - longitude (east / west)
  - latitude (north / south)
  - altitude (ellipsoid / geoid)
- Comment
- Save

The screenshot shows a mobile application interface titled "Locations". At the top, there are three icons: a location pin, a plus sign, and a download arrow. Below the icons, the coordinates "1 9°09'12.94 44°22'48.62 56 [wgs 104]" are displayed. The main form is titled "Location insert" and contains several input fields and buttons:

- A text input field labeled "station" containing the text "station".
- A blue button labeled "E" next to a text input field labeled "Long. dd:mm:ss.sss".
- A blue button labeled "N" next to a text input field labeled "Lat. dd:mm:ss.sss".
- A text input field labeled "H ellipsoid" next to a text input field labeled "H ellip. [meters]".
- A text input field labeled "H geoid" next to a text input field labeled "H geoid [meters]".
- A text input field labeled "comment" containing the text "comment".
- At the bottom, there are two blue buttons: "View" on the left and "Save" on the right.

# Mobile Topographer

- Get a point (“flag” button)
- Save (third button)



# Import from Mobile Topographer

- Station
- Comment
- Tap on the point coordinates entry
- Save

Locations

Location import

1

entrance

View Save

|            |             |         |         |
|------------|-------------|---------|---------|
| 9.38925145 | 45.96088389 | 2116.00 | 2068.21 |
| 9.15359674 | 44.38017463 | 104.61  | 56.51   |

q w e r t y u i o p  
a s d f g h j k l  
↑ z x c v b n m ↵  
123!#() , ? ' ↵