



TcpGPS for Android

Unit 7. Local Systems



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Definition of Local Systems

Source and Target Points

Transformation Results

Definition of Local Systems

- Based on point pairs
- Methods
 - Helmert 2D
 - Helmert 3D
 - 2D Displacement
 - 3D Displacement

Project

Local System

Create

Apply

Remove

Surveying

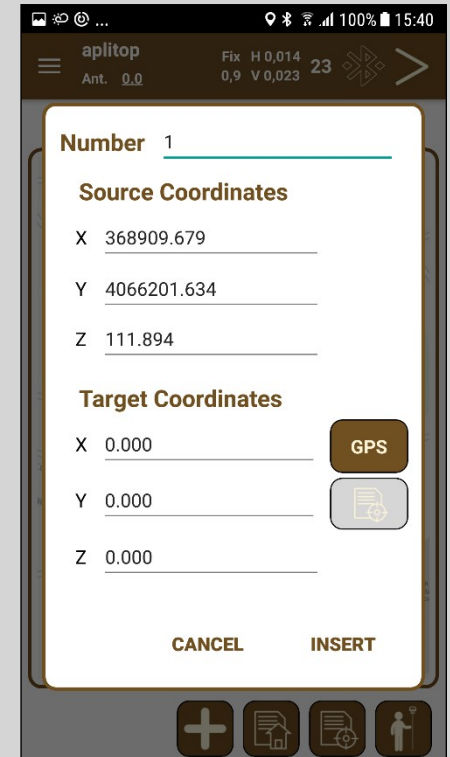
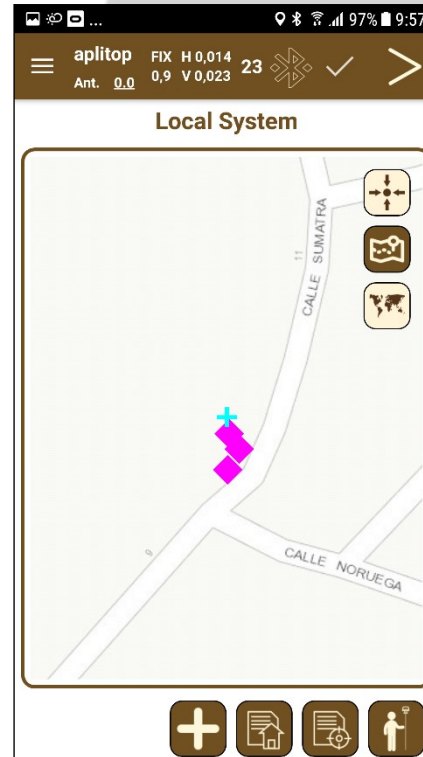
Stake out

Edit

Import

Source and Target Points

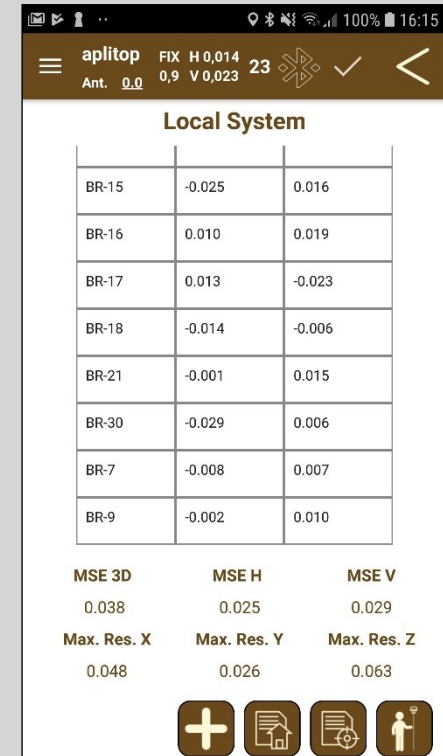
- Import coordinate files
- Manual input
- Receiver coordinates



Transformation Results

- Mean Squared Error
- Residuals for each control point
- Maximum errors

Video 



The screenshot shows the 'aplitop' app interface. At the top, it displays 'FIX H 0,014' and 'Ant. 0,0'. Below this, a table titled 'Local System' lists residuals for control points BR-15 through BR-9. At the bottom, it shows Mean Squared Error (MSE) and Maximum Residual (Max. Res.) values for 3D, H, V, X, Y, and Z axes.

Local System		
BR-15	-0.025	0.016
BR-16	0.010	0.019
BR-17	0.013	-0.023
BR-18	-0.014	-0.006
BR-21	-0.001	0.015
BR-30	-0.029	0.006
BR-7	-0.008	0.007
BR-9	-0.002	0.010

MSE 3D	MSE H	MSE V
0.038	0.025	0.029
Max. Res. X	Max. Res. Y	Max. Res. Z
0.048	0.026	0.063