**Application Note**

Version V1.0-20191213

# Nuwa's Plane Grid and Geoid Function
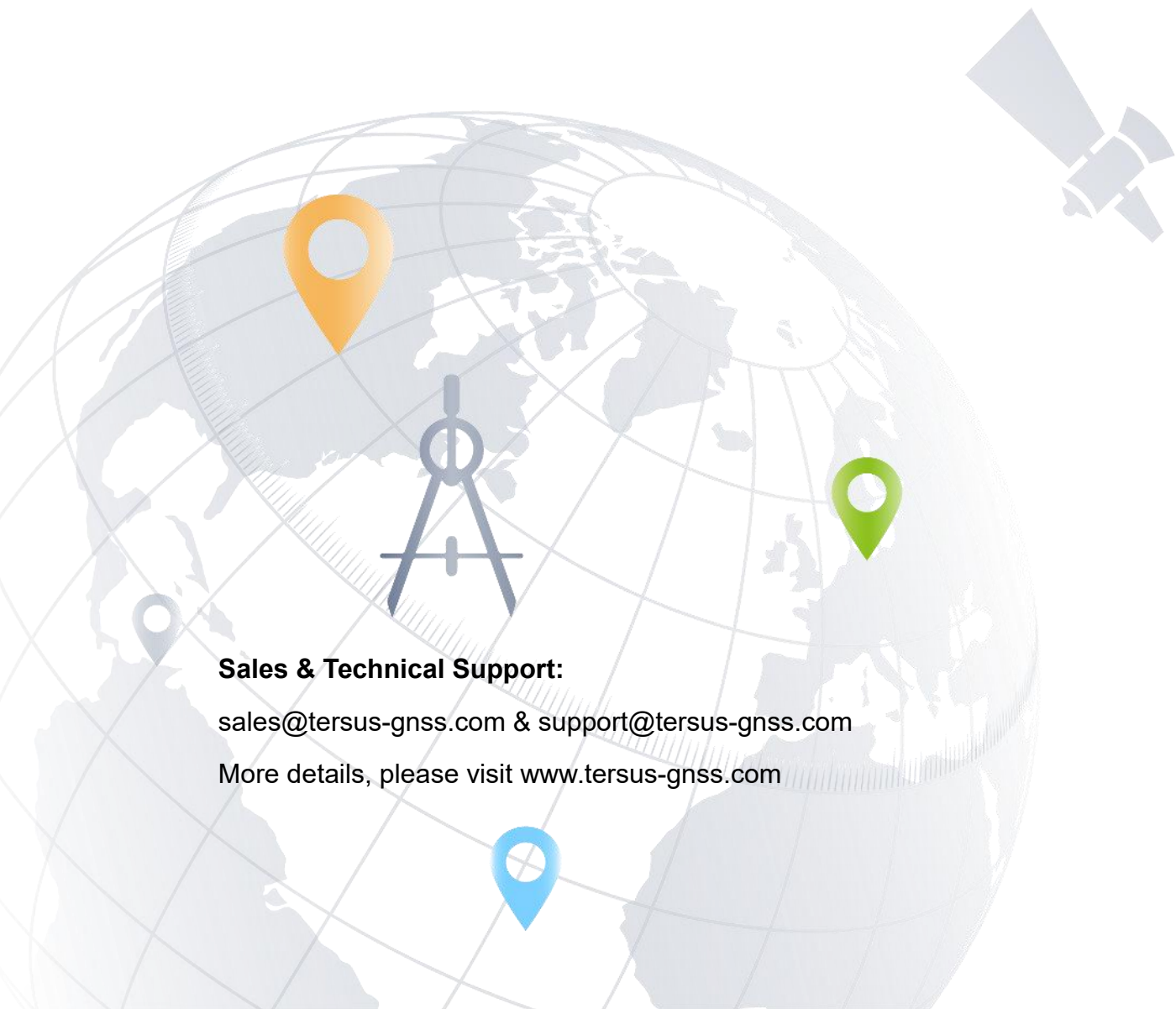
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Nuwa app already supports Plane Grid and Geoid in multiple formats. Plane Grid is a grid coordinate correction model based on grid coordinates or geodetic coordinates. Geoid is an elevation correction model based on geodetic coordinates. Within the coverage of Plane Grid or Geoid, Nuwa calculates the number of grid coordinate corrections or abnormal elevation values for each point through bilinear interpolation, so that the corrected Local N and E comply with local regulations, and Local H displays orthometric height values.

In Nuwa app, under [Project] -> [Current Project], or in CRS, when you create and edit a coordinate system, you can select Plane Grid under Plane Adjustment for application and Geoid under Height Fitting for application.
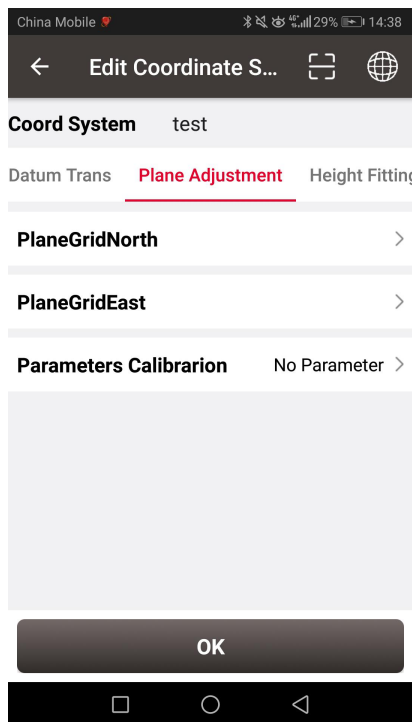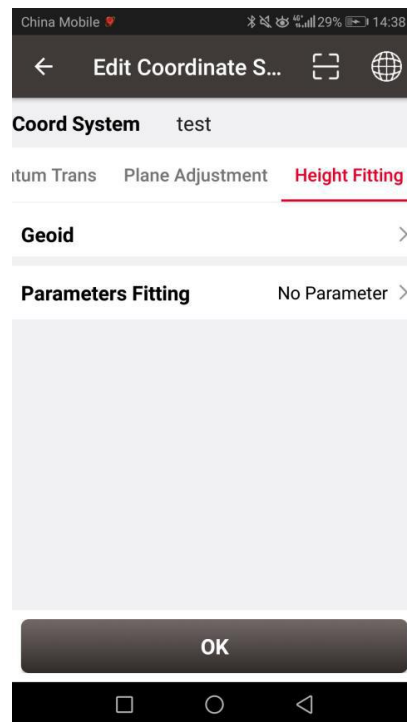


Figure 1 Plane Grid under Plane Adjustment

Figure 2 Geoid under Height Fitting

Put your plane grid files into the TersusSurvey/GRID_North and TersusSurvey/ GRID_East folders, refresh the PlaneGridNorth and PlaneGridEast lists to view your plane grid models, and click [Select] to make the selection.

Place your geoid file in the TersusSurvey/Geoid path, refresh the Geoid list to view your geoid model, and click [Select] to make the selection.
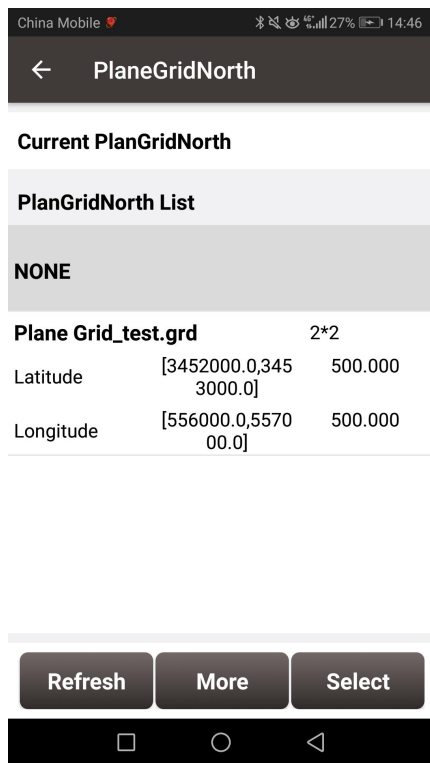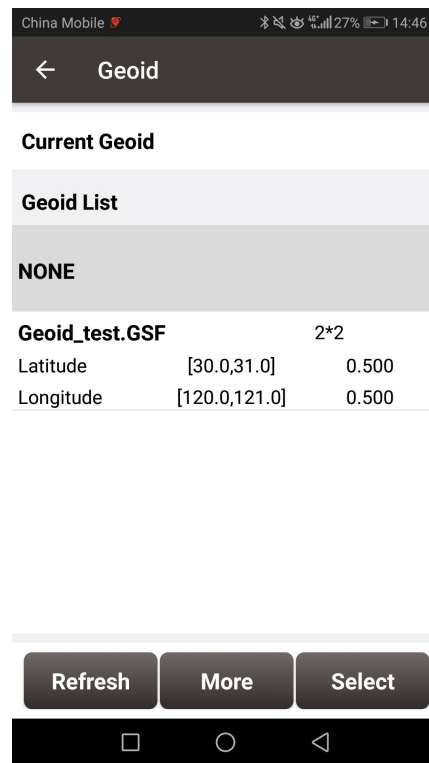


Figure 3 The PlaneGridNorth list



Figure 4 The Geoid list

You can also provide a plane grid file or a geoid file to us for uploading to our server. So that when you enter the PlaneGrid list or Geoid list, just click [More], download and use it from the server anytime, anywhere.

Currently Nuwa already supports plane grids or geoid models in formats such as GGF, GRD, GSF, and OSGB. If you need us to support the format you require, please feel free to contact Tersus support.

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