

Creating a State Plane Coordinate System with a Grid-to-Ground Scale Factor in J-Field

A new project is created by selecting Collect>Project>Create New Project.

Project Settings

Project Name Project1

Project Coordinate System NAD83(2011) / Ohio South | NAVD 88

Background Map None

Esc Create

The Project Coordinate System is set as your state plane coordinate system.

To view the coordinate systems in this project, choose Coordinate System from the Collect Prepare or Stake Prepare screen and toggle the top setting to Current Project.

Current Project All Projects Default

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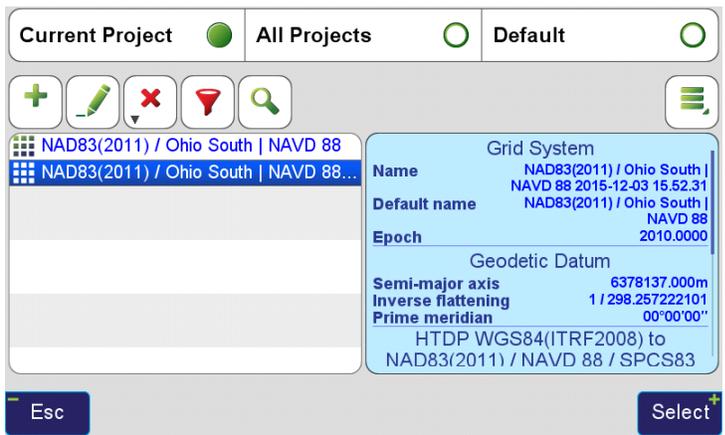
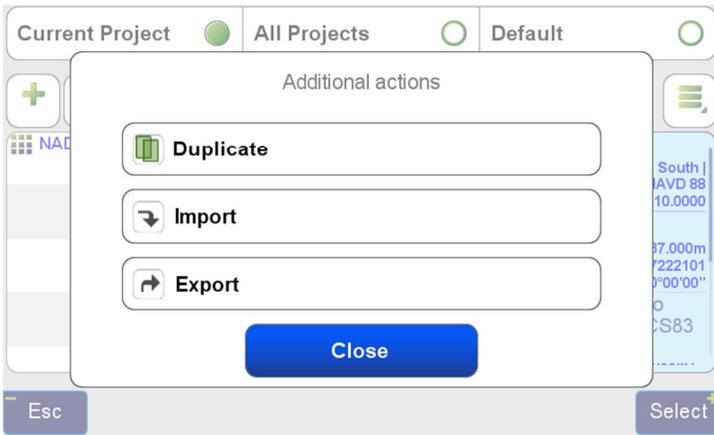
NAD83(2011) / Ohio South | NAVD 88

Grid System	
Name	NAD83(2011) / Ohio South NAVD 88
Epoch	2010.0000
Geodetic Datum	
Semi-major axis	6378137.000m
Inverse flattening	1 / 298.257222101
Prime meridian	00°00'00"
HTDP WGS84(ITRF2008) to NAD83(2011) / NAVD 88 / SPCS83 Ohio South zone	

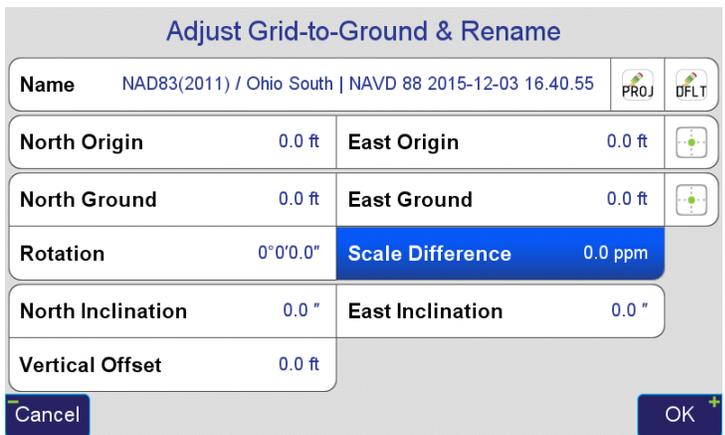
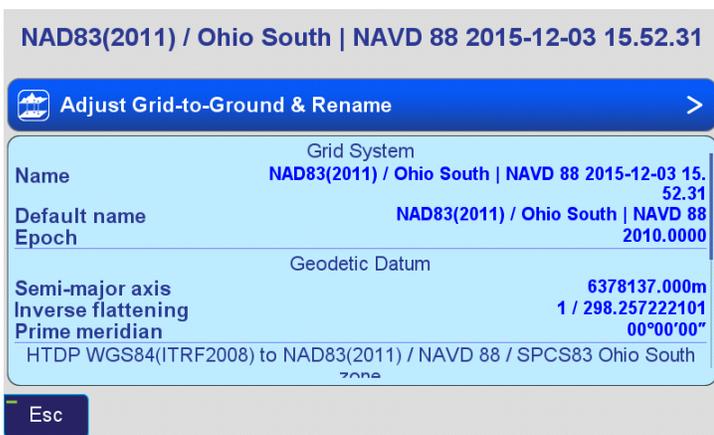
Esc Select



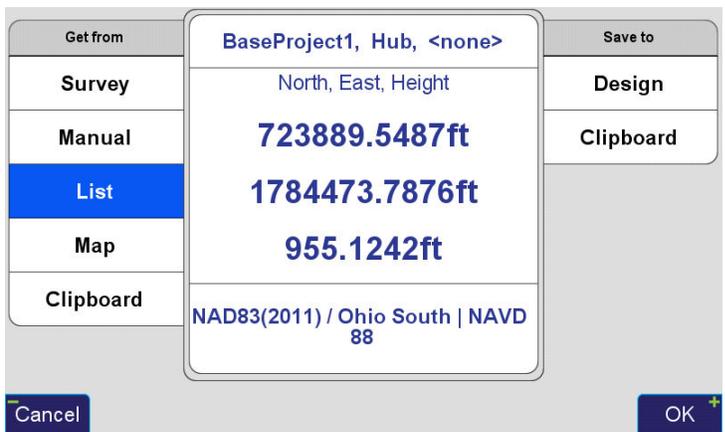
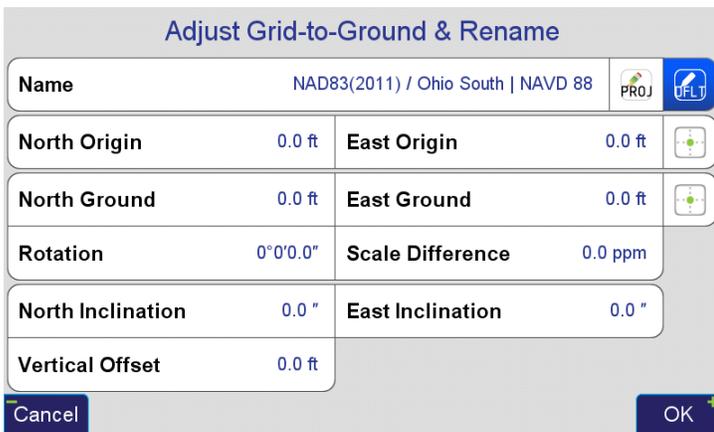
Click the Additional Actions icon and tap Duplicate to create a copy of this coordinate system. The duplicated system will be created with the date appended to the end of its name.



Now highlight the duplicated system and tap the edit icon  and choose Adjust Grid-to-Ground & Rename.



Tap the Default button  to change the coordinate system name to the default name. Tap the position icon  beside East Origin to set origin point in the grid system for the transformation. Here the base station coordinate is chosen from the points List.



By default the ground origin point will be populated with the same coordinate and the Scale Difference is populated with the grid-to-ground scale factor calculated from that point. The scale factor rounded to the nearest part-per-million (ppm) is automatically appended to the coordinate system name. You may also wish to round the scale difference to the nearest ppm by tapping its button and entering that value. In this screen options exist to

