



Visual Geodesy with Interactive Webmap

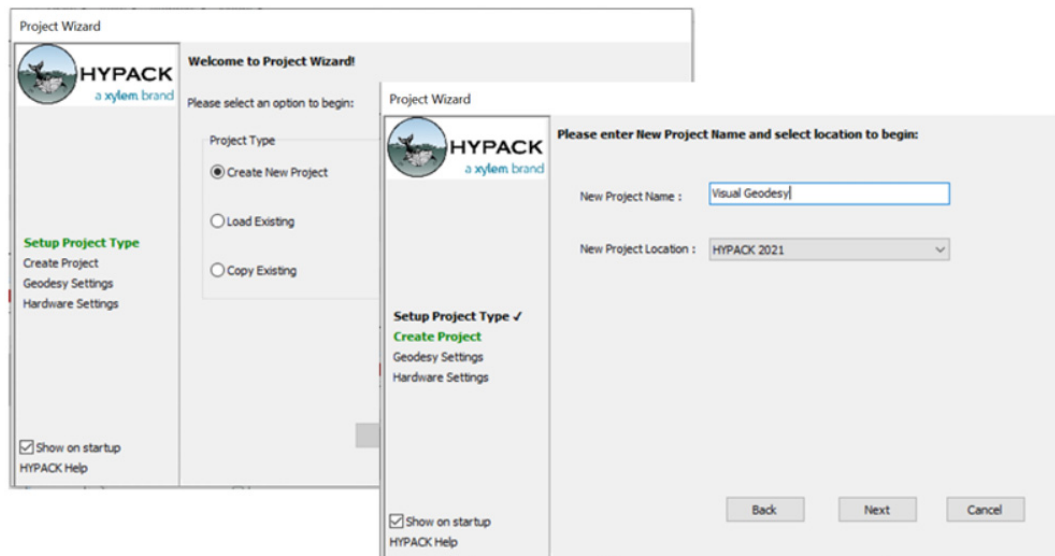
By Saumil Pandya

The Project Wizard now has an alternate and simpler way of setting up geodetic parameters when you are using UTM Grids and US State Plane NAD-83: It is called Visual Geodesy. This interface allows you to set up geodesy with just a click on a dynamic map!

To set up geodetic parameters using Visual Geodesy, follow these simple steps:

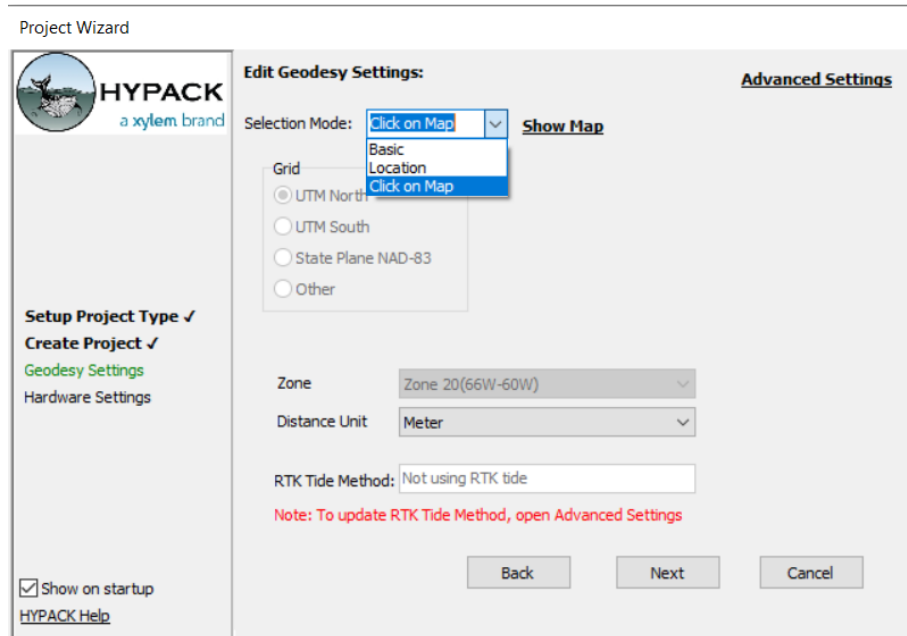
1. Open the Project Wizard. The Project Wizard generally pops up when HYPACK® starts. If it is disabled, Project Wizard can be opened by clicking on File-> Project Wizard.
2. Select "Create New Project" and click [Next]. This will take you to the new project creation page.
3. Give a project name and click [Next]. In this example, I have named the project "Visual Geodesy." Next is the geodesy page.

Creating a New Project (left) Named Visual Geodesy (right) in the Project Wizard

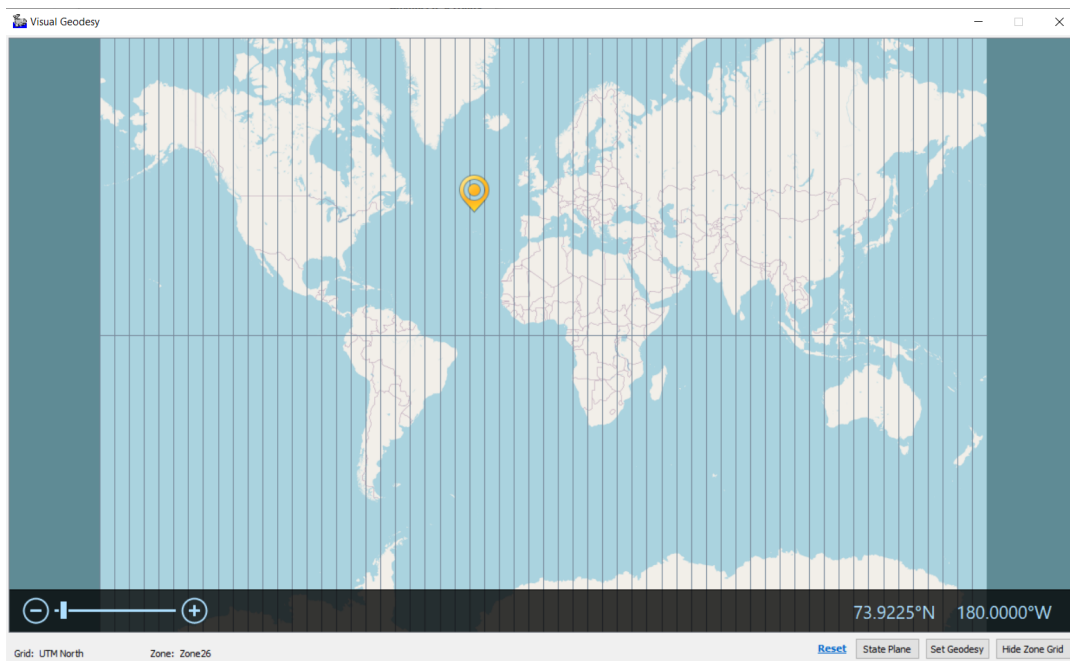


4. On the Geodesy page, select Click on Map in the Selection Mode drop-down. This opens the World Map where you can click on the area to set up your geodetic parameters. You

can see the Lat-Long value on the bottom of the window along with grid area and zone information.

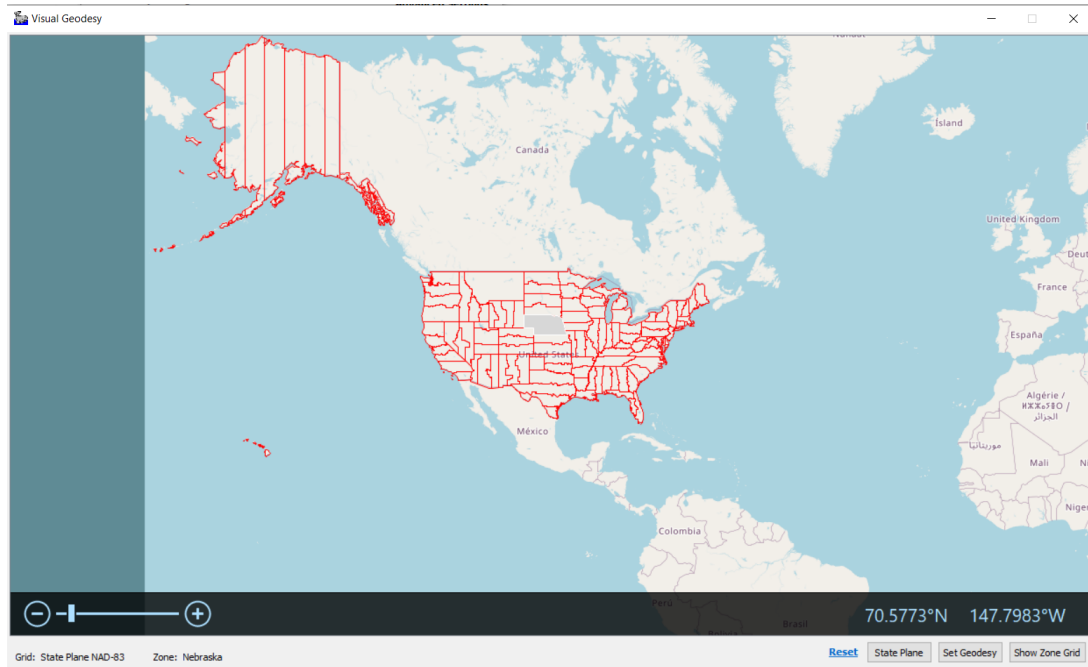


5. An interactive dynamic web map will appear. You can turn on and off the zone grid lines by clicking the “Show Zone Grid” button and vice versa if you are using UTM Grids. You can zoom in and out by using the mouse scroll wheel and scroll bar in the map window. You can also pan around the map area by dragging the map using the mouse. You can see Lat-Long in the bottom right of the map window, while UTM grid and zone info can be seen in the bottom left of the window.

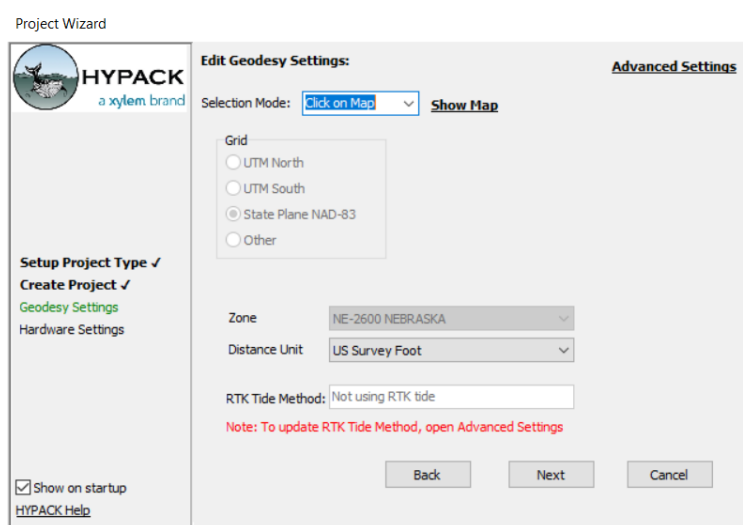


6. If you are using the State Plane NAD-83 grid, you can click on the [State Plane] button and US state plan zones will appear. You can zoom in and out like explained in the previous step. Select the zone of your choice and your selection will appear at the bottom

left of the map window. You will need a *.kml file for the state plane system in the datum folder under the HYPACK® installation directory. File name is “StatePlaneNAD83.kml”.



- When the information is correct for your project, click [Set Geodesy]. This will take you back to the geodesy page in the Project Wizard, and you can see the updated geodesy settings.



- When you are done with Geodesy settings, click [Next].
- You have created the project and set up your geodesy with just click on a map.

NOTE: To use the interactive web map, you will need an active internet connection. If it is not available, you can still browse the already browsed areas of the map you viewed when you were connected with the internet, however no new areas can be viewed while you are offline.