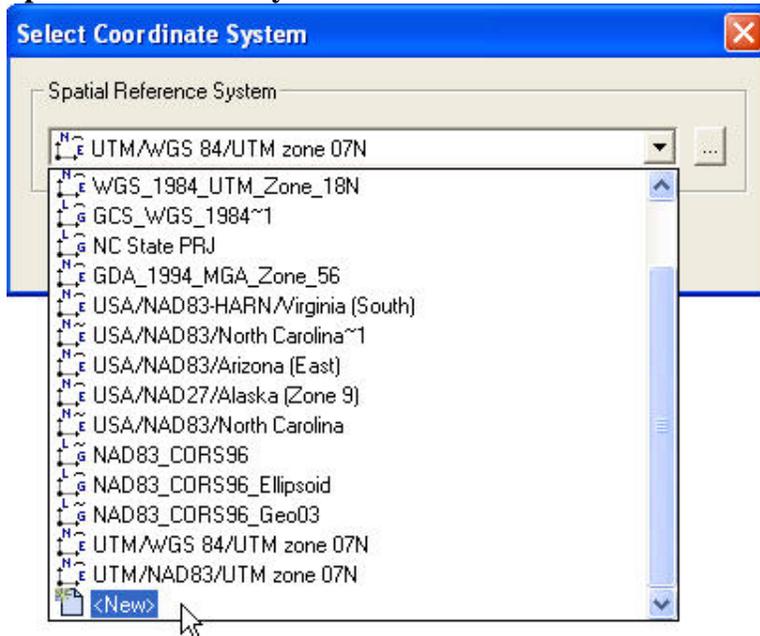


MobileMapper Office Tech Note: Using the NAD83-CORS96 Datum in State Plane Coordinate Systems

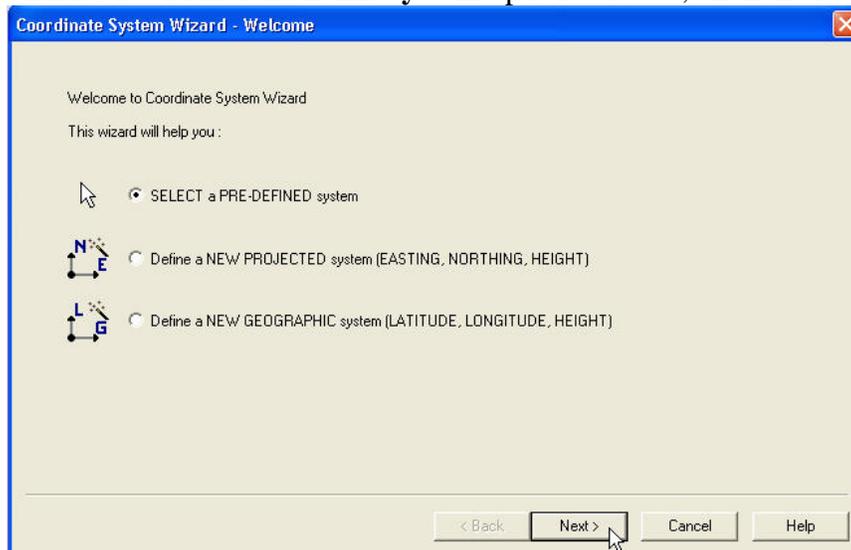
21 March 2007

You can use MobileMapper Office (MMO) to set up a US State Plane coordinate system using the NAD83/COR96 datum by following the steps below. The example shown is for North Carolina, but the procedure applies to other states' systems and zones as well.

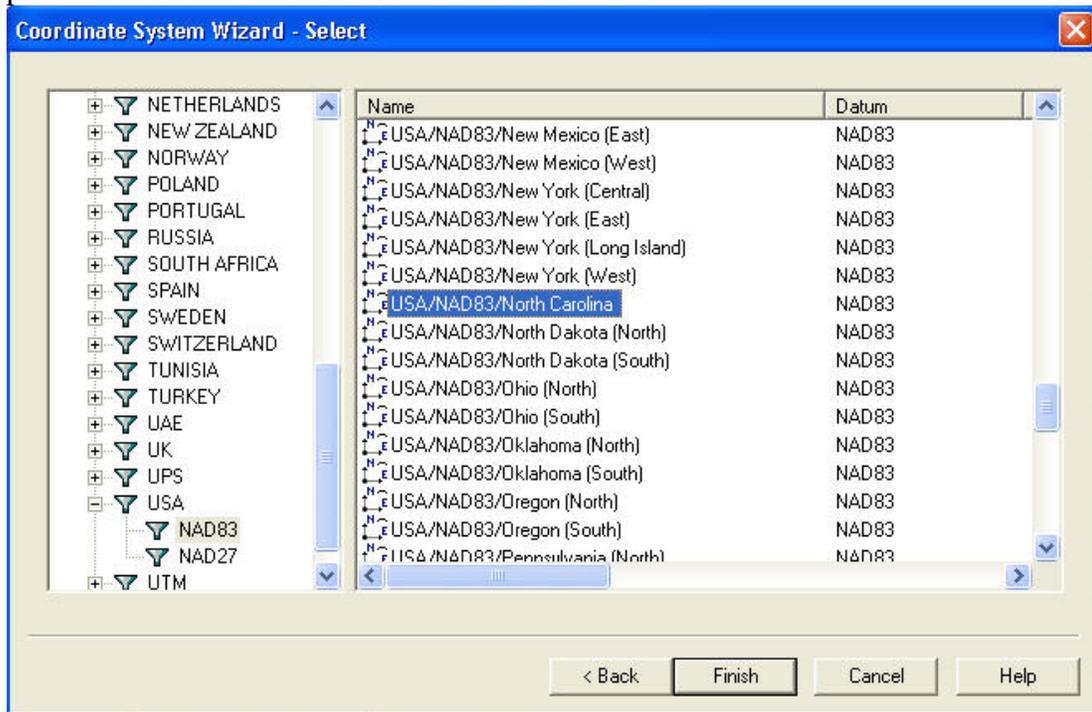
1. In the MMO main menu, click **Options > Select Coordinate System**
2. On the **Select Coordinate System** window, click the down arrow to the right of the **Spatial Reference System** field and select **New** at the bottom of the pull-down menu:



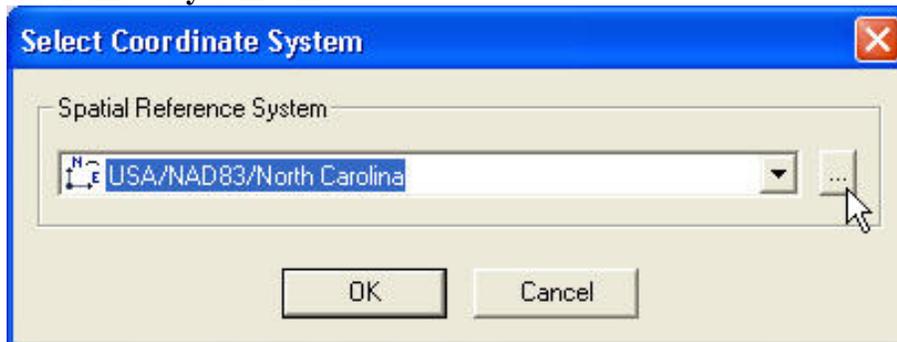
3. You will now see the **Coordinate System Wizard - Welcome** window. With the **SELECT a PRE-DEFINED system** option selected, click the **Next** button.



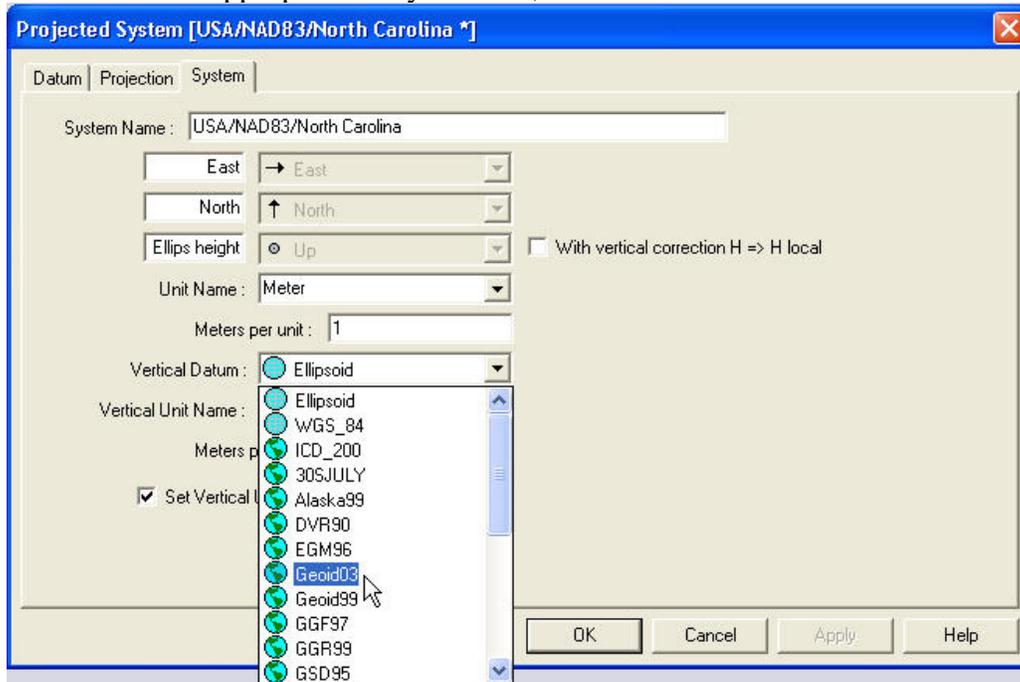
4. Select **USA/NAD83** on the left of the next window and the state/zone on the right pane. Then click **Finish** at the bottom of the screen



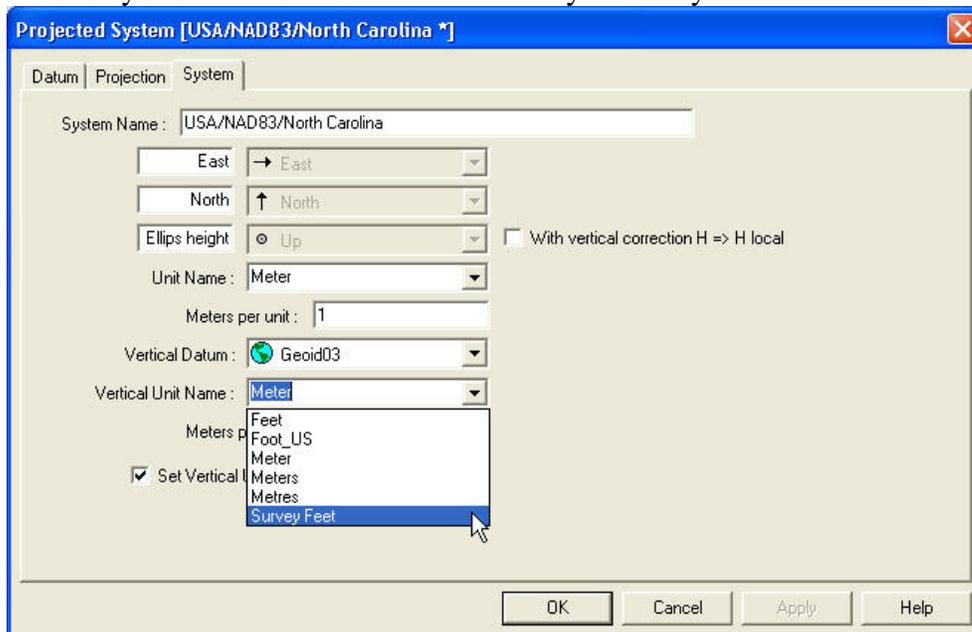
5. You will probably wish to edit some of the parameters of the state plane coordinate system you have selected. To edit them, click the “three dots” button on the **Select Coordinate System** window:



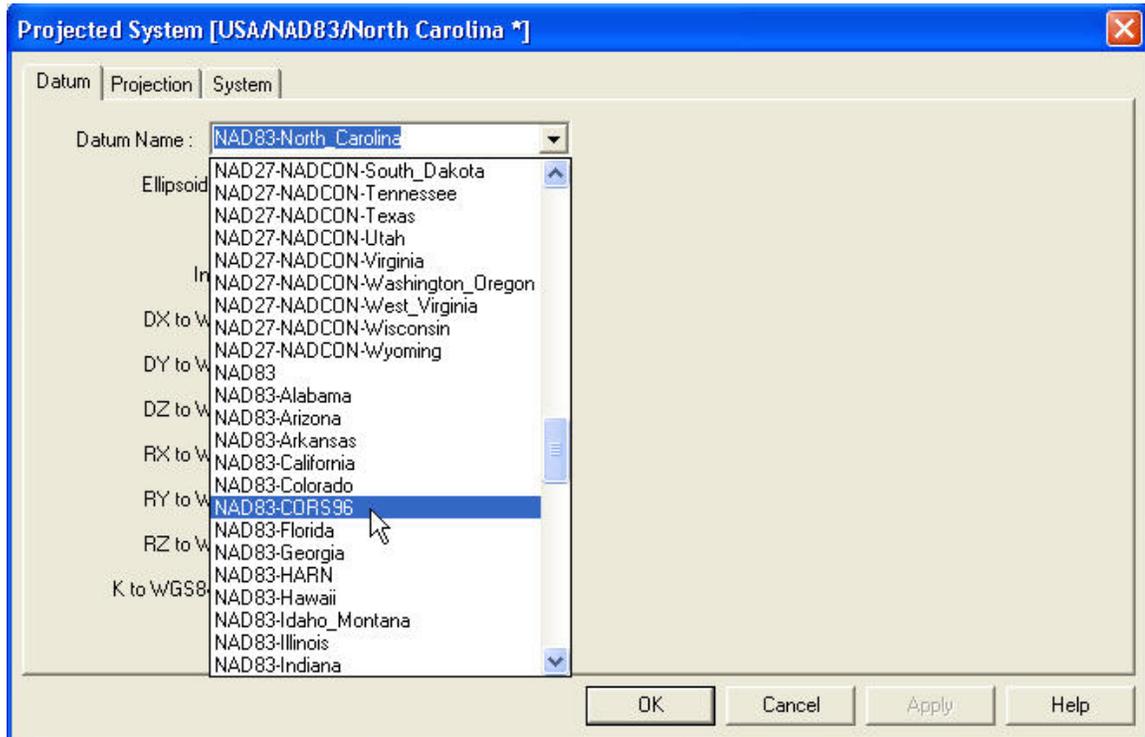
- On the **Projected System** screen there are three tabs: **Datum**, **Projection** and **System**, with the **System** tab open. On the **System** tab you will see that the **Vertical Datum** field's default value is **Ellipsoid**. If you wish to use HAE heights, leave this as is. If you wish to use orthometric heights you will need to select a geoid model, so click the down arrow to the right of the field and select a model. If you do not know which model is appropriate for your state, select **Geoid03**:



- Click the down arrow next to the **Vertical Unit Name** field and select the proper units for you state. Note: this is almost always "Survey Feet."



- Click the **Datum** tab and click the down arrow next to the **Datum Name** field. Click on **NAD83-CORS96** and then click **OK** at the bottom of the screen.



- Click **OK** on the **Select Coordinate System** screen.

