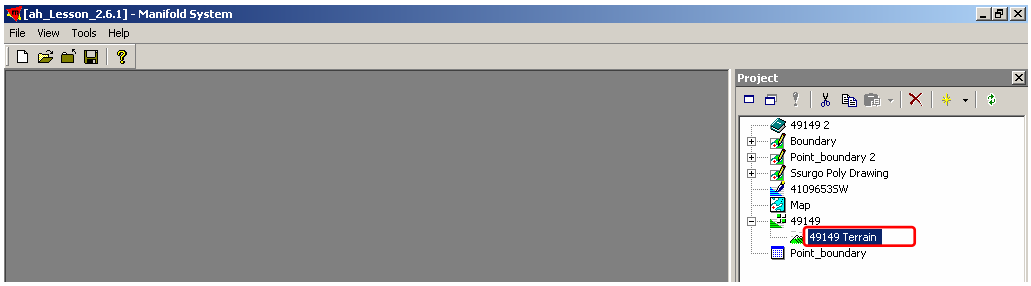
Lesson 2 - 3D Display of Integrated Publicly Available Data

Exercise 2-6

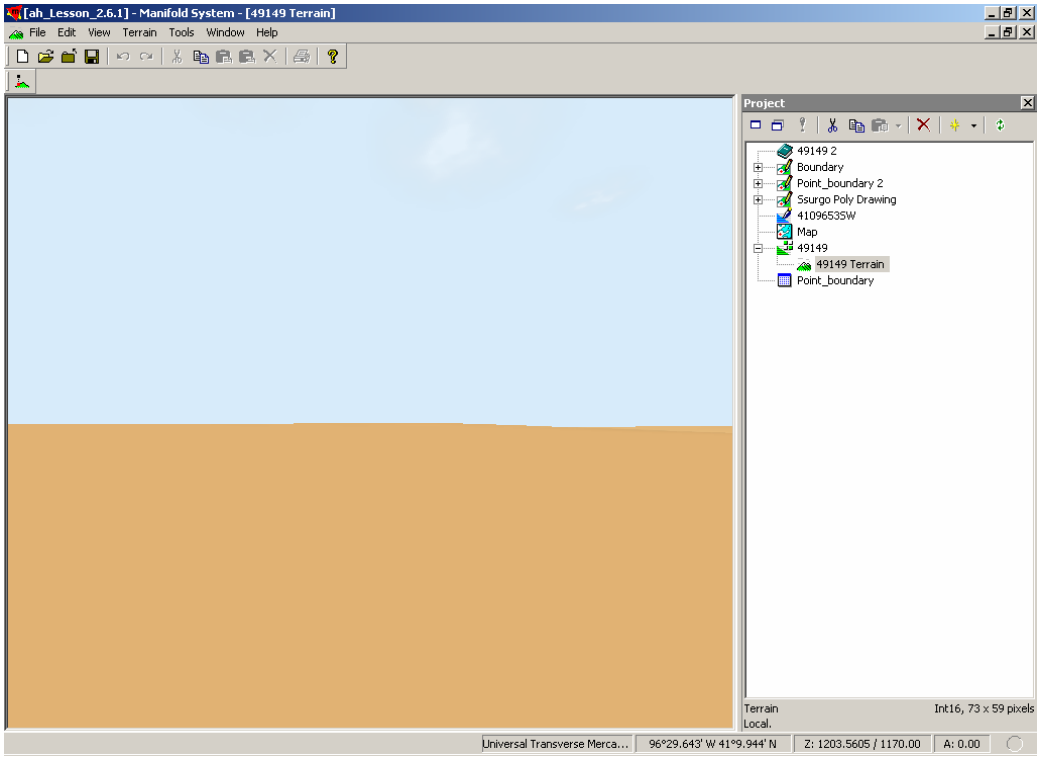
Objective: Analysis of **3D field terrain** displayed with an image and boundaries (field and soil series).

1. **File-Open *Project_2-5.map***.

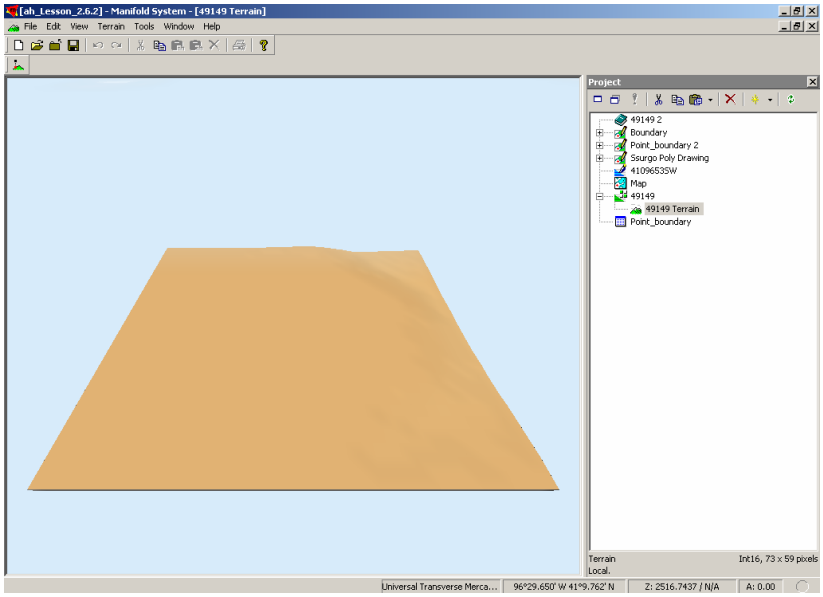
2. Double-click ***49149 Terrain*** under the ***49149*** component in the **Project** pane.



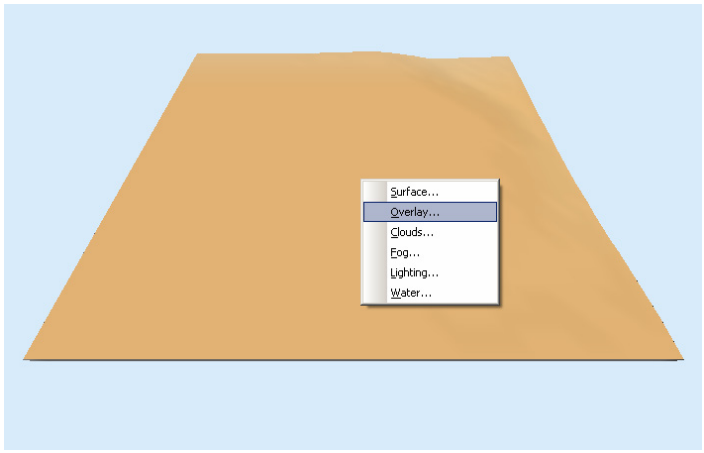
3. Maximize the viewing window. This is a 3D model of the field suitable for virtual travel.



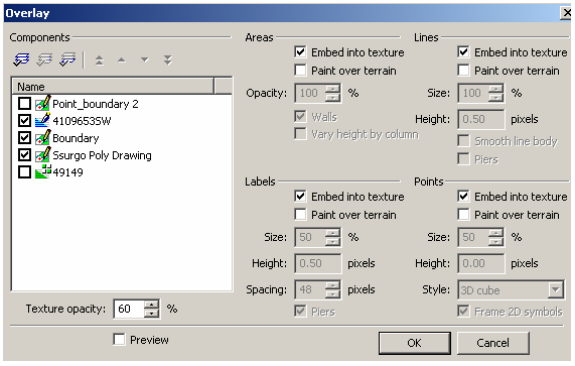
4. Press and hold the **UP** arrow key until the sky (blue colored area) disappears. Press and hold the **S** key until the entire field area becomes visible. Press and hold the **Page Up** key to amplify the visual appearance of the field elevation.



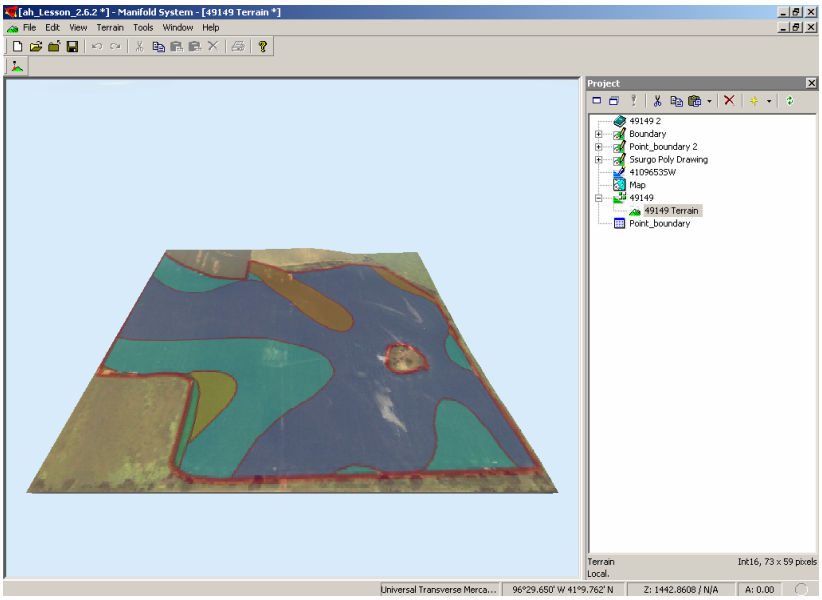
5. Right click the terrain viewing window and select **Overlay**.



6. In the popup **Overlay** dialog box, check the checkboxes corresponding to the ***4109653SW***, ***Boundary*** and ***Ssurgo Poly Drawing*** layers. Click **OK**.

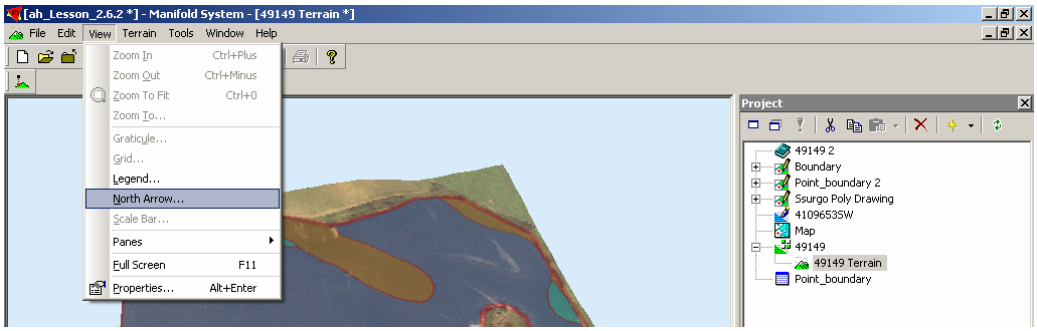


The 3D view of the field will be as follows:

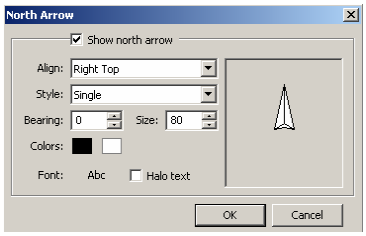


In addition to the keyboard arrows, other keys can be used to control the terrain views:

Up / Down Arrow	Tilt view up / down to ±60 degrees from horizontal
Left / Right Arrow	Rotate view left / right
w	Move forward
s	Move backward
+	Increase field of view (up to 130 degrees)
-	Decrease field of view (down to 30 degrees)
*	Reset field of view to 90 degrees
/	Move camera position to center of terrain
q	Strafe Up (Move vertically up)
e	Strafe Down (Move vertically down)
a	Strafe Left (Move horizontally left)
d	Strafe Right (Move horizontally right)

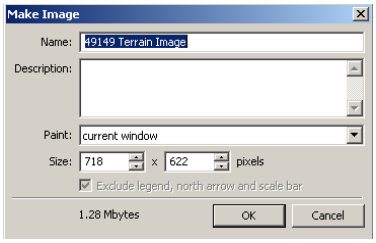
7. Select the **View-North Arrow** to indicate the terrain's orientation.
8. 

9. In the popup **North Arrow** dialog box, check the **Show north arrow** checkbox. Press **OK**.

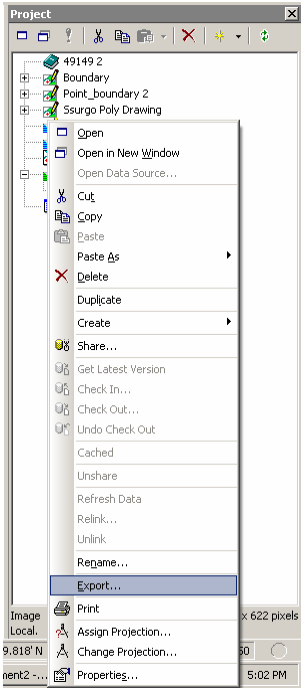


10. To save the terrain view as an image, select **Tools-Make Image**.

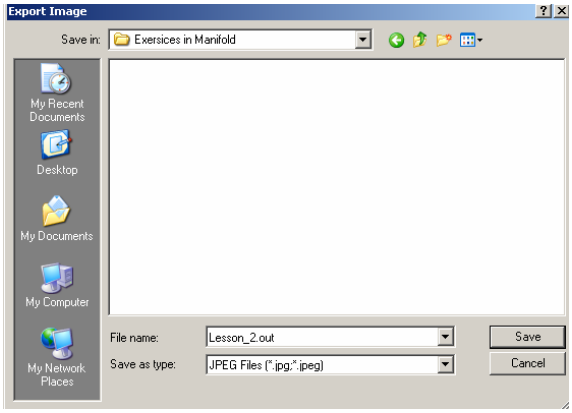
11. In the popup **Make Image** dialog box, Click **OK**.



12. Right click on the ***49149 Terrain Image*** component in the **Project** pane and select **Export**.



13. In the popup **Export Image** dialog box, select ***JPEG Files (*.jpg,*.jpeg)*** in the **Files of type** box and type ***Lesson_2_out*** in the **File Name** box. Click **Save** and click **OK** in the **Export JPEG File** popup dialog box.



14. **File-Save As *Project_2-6.map***.