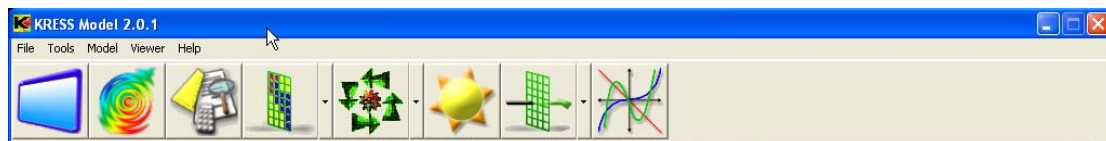
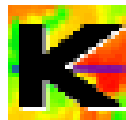


Exercise 11

Create Time-Step Maps from Class Data

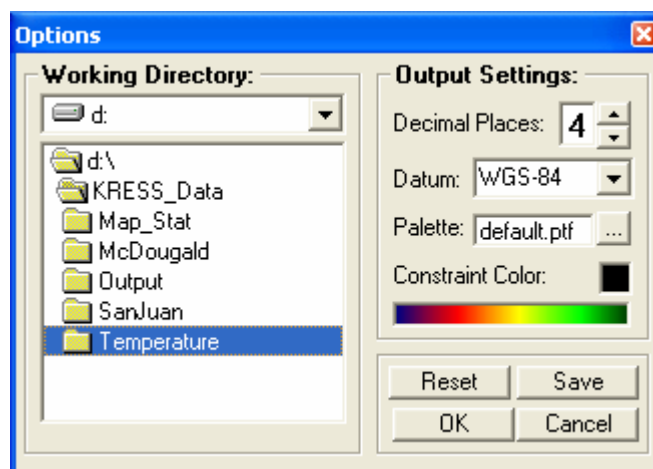
Step 1: Starting the KRESS program

To launch the KRESS model, double click on the icon.



Step 2: Setting the Working Directory and Output Setting

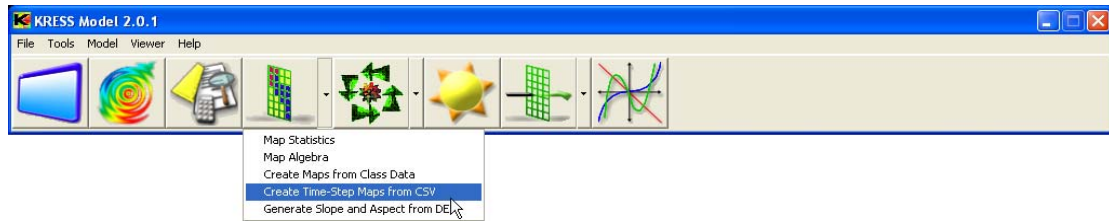
Depending on where you saved the files for this exercise, set your working directory. Choose a palette for the factor and constraint layers.



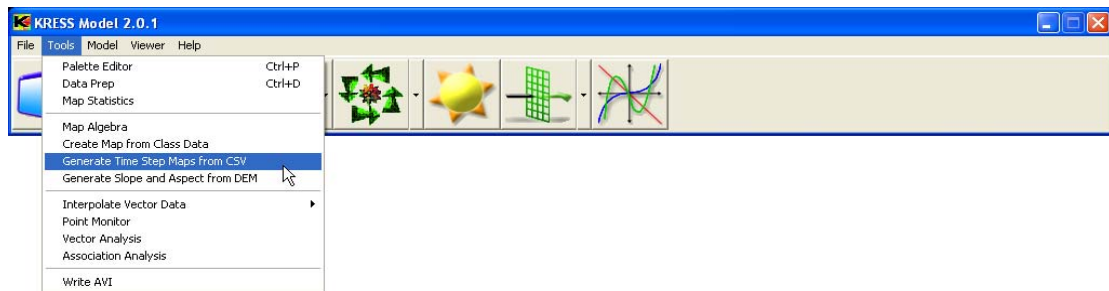
The data set used in this exercise was collected from the east pasture of the McDougald ranch in the California foothills. The shade map was created by digitizing on screen shaded area from tree cover during the summer trial. The temperature maps were generated by interpolating the thermistor data. Temperature was recorded at 15' interval during the whole summer trial.

Step 3: Opening the “Create Time-Step Maps from CSV Data” Option

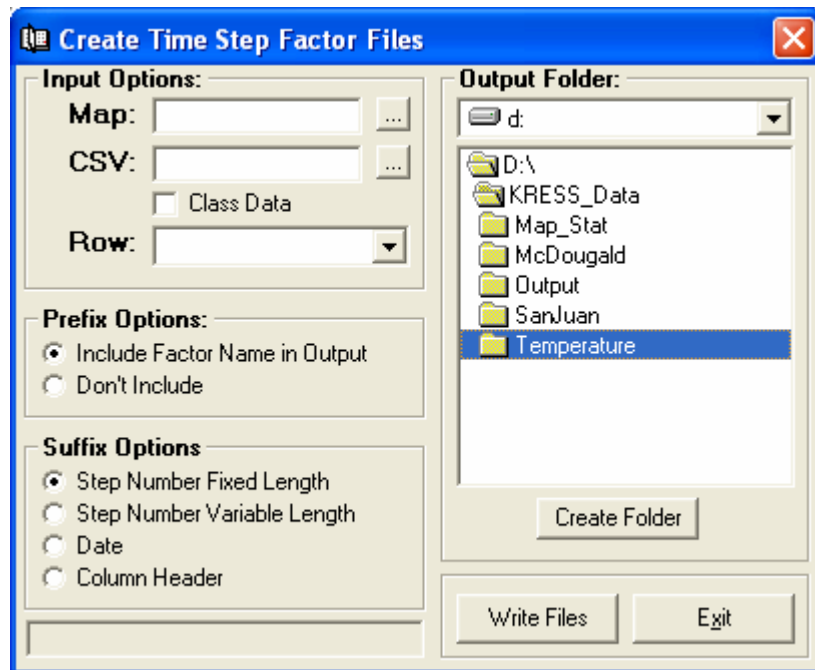
From the raster tools drop down menu select “Create Time-Step Maps from CSV Data”.



You can also access the “Generate Time Step Maps from CSV” option from the “Tools” drop menu as shown below:

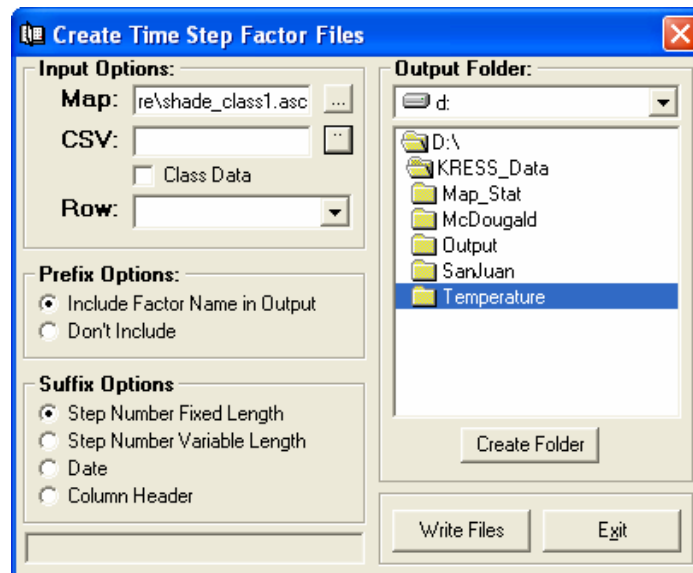
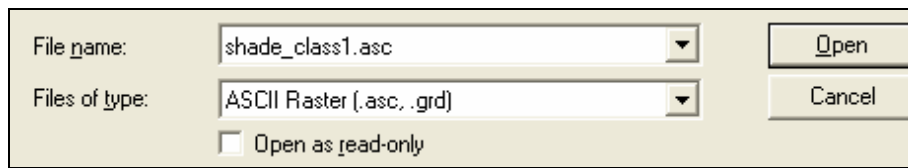


A new window will pop up.



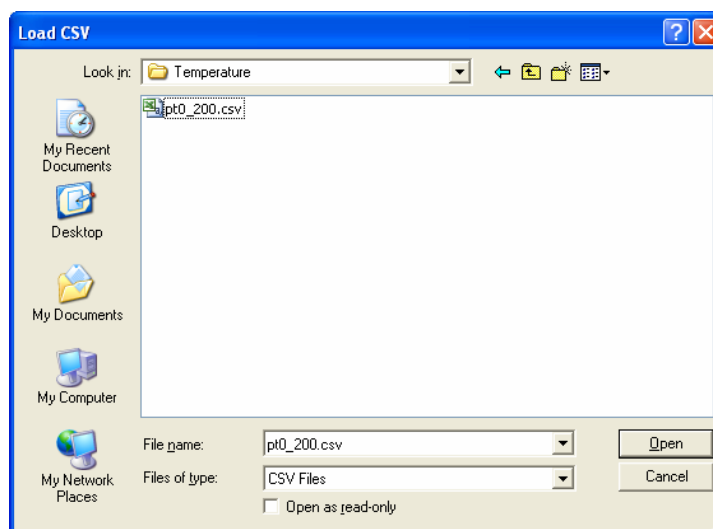
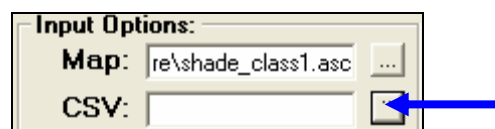
Step 4: Loading an ASCII Map

Click the “...” button to load the file shade_class1.asc.



Step 5: Loading a CSV File

Then click the **Load Class** button to display the file in the frame on the left.

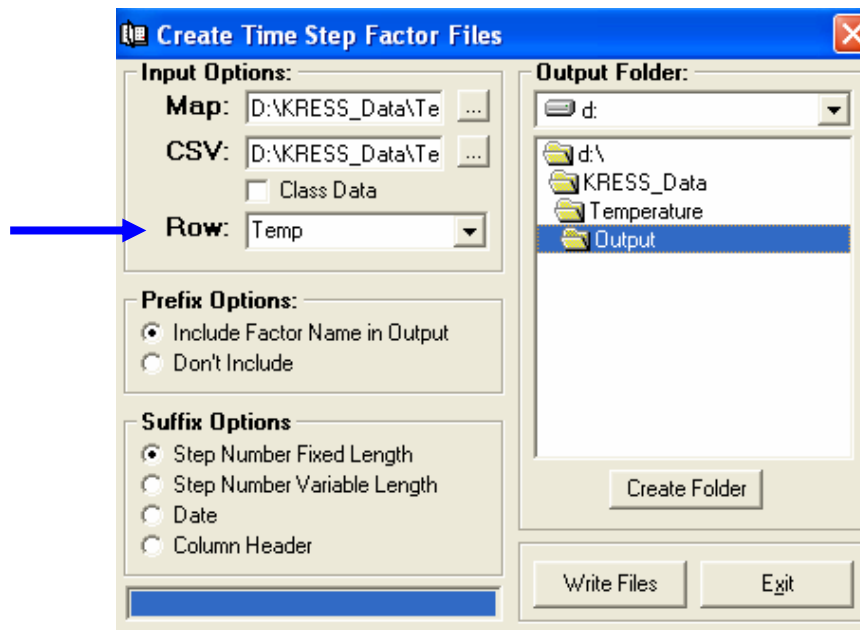


If you open the CSV file in excel it should look like below:

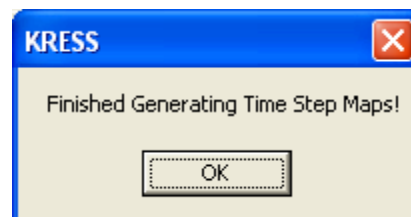
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
1	Temp	-0.89	-0.763	-0.763	-0.89	-0.887	-0.63	-1.01	-1.14	-1.14	-1.27	-1.4	-1.147	-1.14	-1.017	-1.02	-1.023	-1.023	-1
2																			

Step 6: Select temperature

For the Row select Temp as temperature.

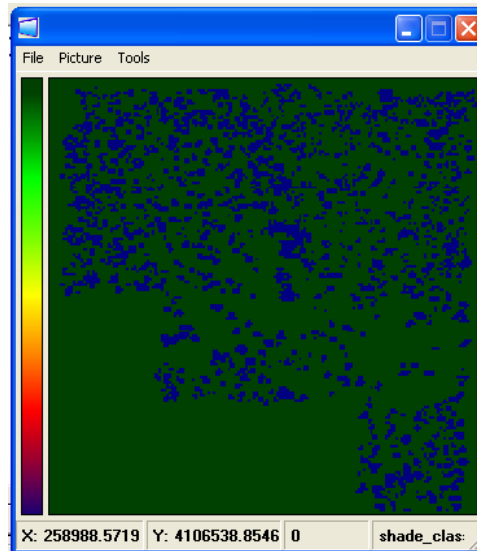


Click on write files.

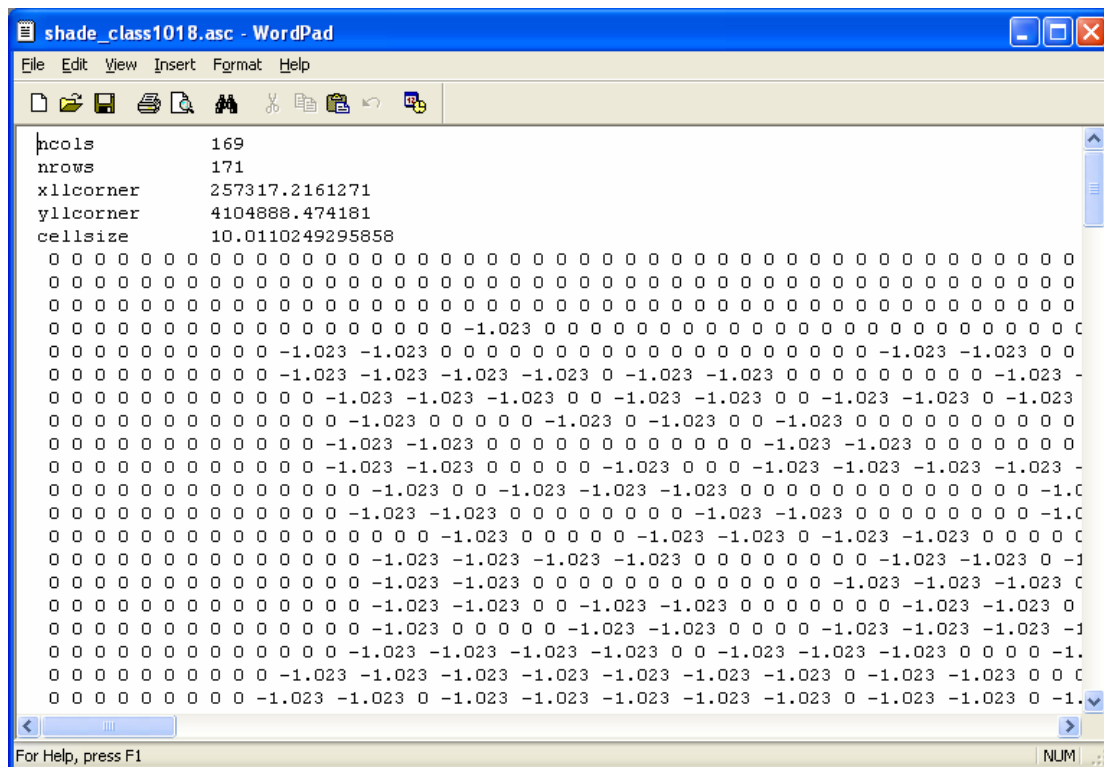


Step 7: Opening Files in KRESS Viewer

200 maps were generated. Open one of them using the viewer:



If you open the same file in WordPad it should look like the following:

A screenshot of the WordPad application window titled 'shade_class1018.asc - WordPad'. The window shows the raw data from the KRESS Viewer file. The data is organized into a header section followed by a grid of values. The header section includes:

```
ncols      169
nrows      171
xllcorner  257317.2161271
yllcorner  4104888.474181
cellsize   10.0110249295858
```

The grid consists of 171 rows and 169 columns of values. The values are mostly 0, with some -1.023 values scattered throughout. The values are arranged in a pattern that corresponds to the map shown in the previous screenshot. The status bar at the bottom of the window shows 'For Help, press F1' and 'NUM'.