

Making your first Map

Your job: Make maps for your final project that are helpful in characterizing the geology and natural history of the UNI campus.

This will likely take more time than you think so I recommend getting started on it now!

Requirements for each map;

1. A proper legend
2. A functional graphic scale
- 3.. A functional fractional scale
4. A meaningful title
5. A North Arrow

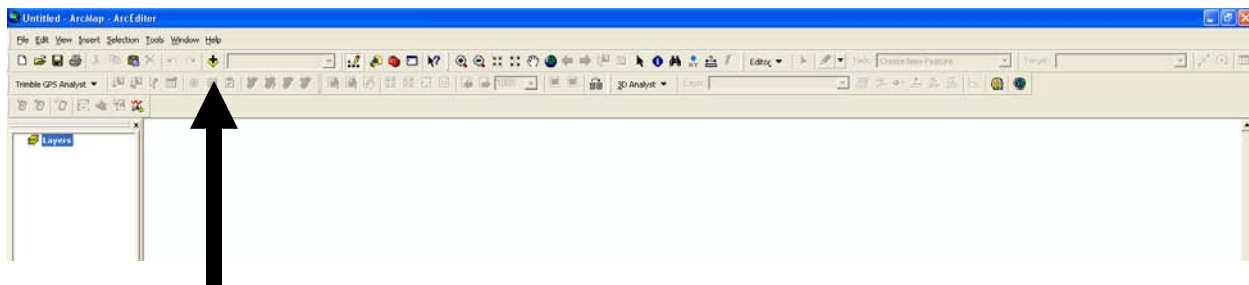
General step for using the ArcGIS software...

The basic data for making your maps is stored on the P-Drive

Create a folder within the liES folder to store your maps (ask if you don't know how to do this)

Steps...

1. Add data to the map!
 - a. Click the yellow symbol with a black plus sign
 - b. Locate the P:\ drive folder
 - c. You can double click to open or click once and then click the add button
 - d. Now choose and open the folder UNI_liES_GIS_basedata
 - e. Now you can migrate to any piece of information you would like to add to your map!
 - f. Keep adding shapes to your map until you have all of the data you would like to work with



If you did go ahead and add the Iowa counties your map should look this....

Zoom in (+) Zoom out (-)

Earth, will zoom back to the beginning...

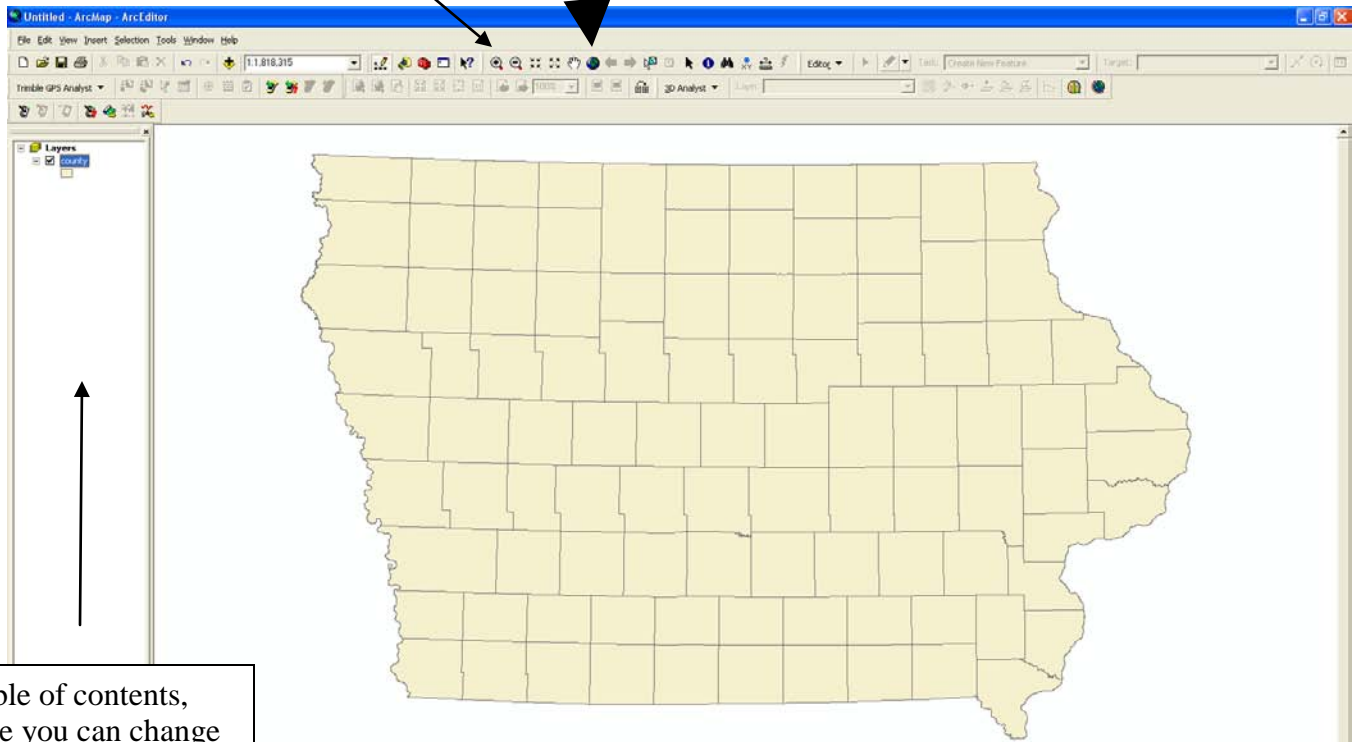


Table of contents, here you can change colors and much more, you can drop and drag layers above and below each other.

Use this window to build and manipulate your map! The tool bar at the top of the window is pretty complicated but, most of the symbols should be intuitive. I've pointed out some of the major ones above...

I will help you with the more difficult tasks... Just ask lots of questions (ask them early and often)

You should store your map to your personal folder on the P:\ liES GIS base data

DO NOT rename of move any of the data stored within the P-drive

If you want to search the web for more 'shapes' to add to your map, you may download data to the P:\ from this website

<http://www.igsb.uiowa.edu/nrgislibx/gishome.htm>

You will have to unzip these data! (if you don't know how to do this please ask!)

Changing from adding data to your map window to making the actual map....
Up until this point you have been working in a data view.

Steps

- A. Look at the top of the screen on the menu bar, and click View
- B. Now choose the Layout view

Within this Layout view you are able to add/insert many important aspects of your map (e.g. north arrows, scales, titles etc.) Use the Insert tab on the top menu bar.

Once you have a map that you are happy with,
Steps,

- A. Click File on the top menu bar
- B. Click Export map
- C. Now you will have the choice to save your map as an image (.jpg, .gif, .tiff) please save the file to the individual folder that you have made. Or save it to a jump drive that you have brought in.

You now should be able to make some basic maps for your final! Have fun, no I'm not trying to torture you, this should really be fun! Be creative!

Don't get frustrated ask questions if you get stuck!

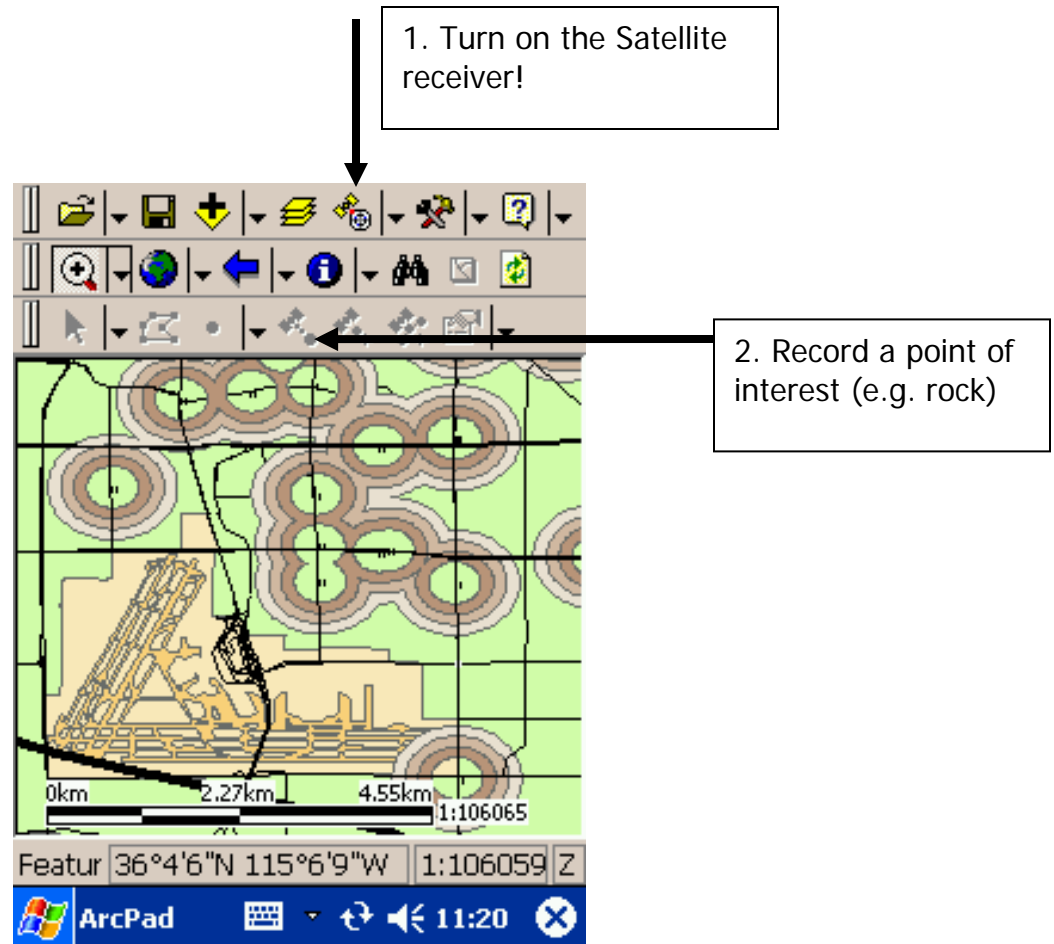
Using the JUNO SB (Please be very careful with these units, be gentle with the touch screen, be patient tap then wait these they react slower than a regular computer, do not get them wet, do not leave them in the sunlight for a long time, don't drop or throw them, don't lose it, don't look at them with angry eyes....

Using the ArcPad software is very similar to using the ArcGIS software you are using to make your maps!

To get to the software: START, Programs, ArcPad 7.0, open a new map

PLEASE do NOT change any settings, it will take me a long time to figure out what you have changed, meaning you will have less time to do your work! Just collect data and have fun!

ArcPad screenshot



Getting started

- A. You can add map layers and shapes using the blackPlus/yellow square (top menu bar)
- B. You can zoom in and out using the magnifying glass (point\hold\drag\box, and you will zoom to the area of box that you drew the box...)
- C. The Earth Symbol will bring you to the full extent of your data if you get stuck and want to start over

Collecting your ROCK data;

1. Add symbol\press the plus sign for UNI_campus_GIS **OR** UNI_GIS and choose then click the box for the data you want to add to your map (repeat as needed)

- Once you follow the directions to number 1 the path to the card data may be linked directly to the black plus add symbol. If it is not just use the directions to #1 again.

2. The two most valuable items to load to your map will be

- A. the aerial photo
- B. the ArcPad_shapes (Rock)

3. Once you have the Rock file open and the GPS on you can record the position of the rock feature and enter data about it!