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| **From: David Rounce** Hello Dr. Irmak,   My name is David Rounce and I'm a student at the University of Texas in the GIS in Water Resources class.  I've been working on assignment 6 for quite some time now and have been able to get through most of it.  In part III, I was able to the create polygons for different land use classes and merge them together properly.  However, when I attempted to work with the training sample manager to save the files and to have the one file be a .gsg extension ArcMap crashed twice.  On my third time through I decided to continue on without this file and was trying to use the ISO\_Unsupervised.gsg which we created earlier.  It brought me a few steps further, but when I got to the class probability portion of the exercise on p29, I could not add my layers to the map (furthermore, I was dealing with 20 layers instead of 11 because that is the number we set to limit the unsupervised section).   I'm not sure if it is just my computer or if other students have been having similar problems with this portion of the exercise.  I was wondering if you had any advice or knew of any way around this problem?   I cc-ed Dr. Maidment on this email because without this .gsg file from the land use polygons we drew I am unable to complete the last two questions that you ask for. Thanks for your help in advance, **Response:**Dear David:You might want to try to save the ISO\_Unsupervised.gsg outside your geodatabase. You cannot really save it in a geodatabase. I think that could be the issue. I thought I mentioned this during the class, but I might be completely wrong.When you add data in ArcMap and if you can double click on the class probability raster, you will be able to see them. Layers are quite large and very high resolution. ArcMap takes a little while to draw the maps if we dont build the pyramids. It might be possible that you are attempting too many operations while ArcGIS is doing its job (drawing layers). Thus, the software will likely crash. Hope this helps.  |
| **From Gonzalo E. Espinoza**Dr. Ayse Irmak:I found that in the Exercise 7 in the page 7, when we are computing  the Spectral radiance of band 3 the equation is:(((264+1.17)/(255-1))\*("Band4"-1))-1.17And I think that the equation should be(((264+1.17)/(255-1))\*("Band3"-1))-1.17Changing that we have the correct answer, maybe this information is  helpful for the other studentsBest Regards, Gonzalo **Response:**Dear Gonzalo, You are absolutely correct. It was a mistake and that I am sorry about that. Thank you very much for bringing this to my attention! |

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| **Maureen McCann**Hi Dr. Irmak, I'm a student at UT and I know Dr. Maidment is out of town right now so I figured I'd bring my question to you... I have been stuck on the first part of Exercise 6. I cannot get the Capital Beach image to appear when using the other transformation methods.  Am I supposed to connect the dots on the control points and keep doing trial and error until it appears? I can't get beyond my control points looking as they do in the attached document. I don't quite understand what "now ArcGIS snapping environment will be automatically activated" means.  Are there any other features that I should ensure are turned on/turned off etc? Thanks for your time, Maureen McCann**Response**Dear Maureen,You need to connect your control point location (point on the TIFF image - capitol beach) to the corresponding 'control point feature class' (dots). Therefore, you do not need to connect dots to each other. It will mess it up.  Please right click on the capitol beach layer, and then zoom to layer. This way you can easily identify the location of control point on the image.  Again zoom in same way to 'control point feature class' and identify corresponding 'control point' (dot) First, please make sure you click on the image point and then click on the control point feature class (dot). Doing it other way will not work at all. When you do this, the ArcGIS snapping environment will be automatically activated. You can automatically connect to control point feature class if you hover your mouse close to it. Hope this helps. |

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| **Naho Orita** Dr. Irmak,I am having trouble with part 1 on the exercise 6. I have made georeference between capitol beach and control points, and when I view the table, auto adjust is checked. I can see 1st order polynomial and 2nd, however, when I switch it to adjust, nothing shows up but the control points. Also, the following step where you use the "update georeferencing" button,  its not activated and thus I cannot use it. and so, I cannot rectify the image. I have tried it several times, and it once has worked, however, when I tried to save it, it said that the Arc was failed to save raster dataset. I need help on this homework.Thanks!**Response:**Dear Naho, It seems as if you are doing something wrong. Indeed, ‘Update geo-referencing’ option should be activated if your control points were added and connected to “capitol beach” image. If it is not activated, I assume you may not have connected the “control points features” to corresponding point on the “capitol beach” image. I hope this would help. Good luck! |

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| **From Jeanny Miles** Dr Irmak, I have downloaded the Ex6 zip file numerous times from your website and for some reason have an empty Lancaster geodatabase (no shapefiles present, no CALMIT, NASS, lancaster county, etc.).  The images show up fine, but not the projected layers within this geodatabase.   I've done half of the assignment but am stuck now since I cannot add these layers to my map nor compare the image analysis with these layers (or use their projections). I am using ArcMap 9 for this part of the exercise and I'm sure this has nothing to do with it.  Many of my other questions stem from not having access to these files. Could you please send me this geodatabase so I can complete the assignment**Response:**Dear Jeanny:I am sorry, but you can’t use 9.x to view/open the files in geodatabase. ArcGIS v10 geodatabase structure is completely different than that of ArcGIS v9.x |
| **From:** Jeanny Miles (Utah State) I'm having some problems with Ex 6.  I've gotten through the first third of the assignment a few times, both in ArcMap 10 and ArcMap 9.  The presentations by Dr. Irmak are actually quite confusing (and don't match the instructions handout) However, I am not able to georeference the Capitol Beach tiff properly, and therefore cannot overlay it with the other images for comparison.  I've started over a couple times and it seems that one of the links (from the top of the syllabus spreadsheet or from the lecture date) does not have all the information within the Lancaster geodatabase (the layers that I used earlier are no longer there).  In order to import the projection, I need another copy of the NASS, CALMIT, Lancaster county etc. feature classes that are in this geodatabase. I am away on business and won't be back until Monday.  I have my laptop and am now in a new project on my laptop in ArcMap 9, working on the homework and term project review and term project.  Here are the issues I am trying to verify: **1. page 4:**  to add capitol Beach in the personal godatabase, I used Raster to geodatabase (multiple) and selected the WGS coordinate system associated with the files in LT50280322005196EDC00 folder  (is that okay?) **2- page 7:**  is there a create feature window in ArcMap9?  I can't see an absolute X,Y as I did and am not sure which editing function to use to place the points on the map (I did this before on ArcMap 10) **3-** I made an XY event table and imported it as a table into my Ex6 geodatabase.  Page 7 indicates we will later export this layer as a point feature class under the name Control\_Points, but this is not elaborated on.  Would we export the layer in lieu of creating the Control\_Points feature class or after this feature class is already created?  (After exporting into a new control\_points shape file and losing the locations that I designated, I crashed out of the program).  I have a shapefile of control points as well, but without X/Y coordinates.  Can I also manually add these points or import the table into the shapefile or join the tables from the two files? **4- Page 10:**  After Georeferencing and Rectifying it seems (like the person who asked a question in class - James?) that CapitolBeach\_Rect is already in the desired projection:  NAD\_1983\_StatePlane\_Nebraska\_FIPS\_2600\_Feet.  Therefore I did not reproject it.  Also, I still need a copy of the Lancaster\_County Polygon to import the coordinate system from.  This becomes an issue again on page 16 when I need to project the Landsat imagery - is there a way around this (by selecting a different coordinate system)?   I did some of the image analysis with CALMIT and NASS layers at home on my ArcMAP 10 desktop computer... but alas do not have this info through my multiple downloads - so I am now stuck.  I also re-downloaded it again from Prof. Irmak's website and the Lancaster shape files (only a Lancaster geodatabase shell but no files) are still not there.  Can you please send me these shapefiles or direct me to another site that has this data?   Thanks,  Response:Dear Jenny: I am so sorry that you have had so many problems. Thank you for bringing those to my attention. 1. page 4:  to add capitol Beach in the personal geodatabase, I used Raster to geodatabase (multiple) and selected the WGS coordinate system associated with the files in LT50280322005196EDC00 folder  (is that okay?) **I prepared addendum and added the steps (**[**http://snr.unl.edu/airmak/giswr/2010/**](http://snr.unl.edu/airmak/giswr/2010/)**). You can find addendum on my website. That’s correct. You can either import it into geodatabase or save it in geodatabse through ArcMap.**   2- page 7:  is there a create feature window in ArcMap9?  I can't see an absolute X,Y as I did and am not sure which editing function to use to place the points on the map (I did this before on ArcMap 10) **It is in ArcMap v10. When you start editing, window appears on right side of ArcMap. Once you start editing, absolute XY will be enabled/highligted.** 3- I made an XY event table and imported it as a table into my Ex6 geodatabase.  Page 7 indicates we will later export this layer as a point feature class under the name Control\_Points, but this is not elaborated on.  Would we export the layer in lieu of creating the Control\_Points feature class or after this feature class is already created?  (After exporting into a new control\_points shape file and losing the locations that I designated, I crashed out of the program).  I have a shapefile of control points as well, but without X/Y coordinates.  Can I also manually add these points or import the table into the shapefile or join the tables from the two files? **I added the material in Addendum explaining the alternative method. Please check it out.**  4- Page 10:  After Georeferencing and Rectifying it seems (like the person who asked a question in class - James?) that CapitolBeach\_Rect is already in the desired projection:  NAD\_1983\_StatePlane\_Nebraska\_FIPS\_2600\_Feet.  Therefore I did not reproject it.  Also, I still need a copy of the Lancaster\_County Polygon to import the coordinate system from.  This becomes an issue again on page 16 when I need to project the Landsat imagery - is there a way around this (by selecting a different coordinate system)? **That is exactly correct. The re-projection step is redundant. That is because once you update the geo-referencing, it takes the spatial reference of data-frame. When I did the exercise first time, it was WGS\_1984 and I had to re-project it. This step is skipped in addendum. The data is in Ex6 zip folder -** [**http://snr.unl.edu/airmak/giswr/2010/**](http://snr.unl.edu/airmak/giswr/2010/)
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