Ice Imagery Exercise

1) Login to the mapit computer. Use the directory created in a previous exercise as your working directory (last name).
2) There are ice imagery files for eight different groups to work on. The files are located in ~ucar/class/data and the directory names are:
    a) aquamodis-3daychloro
    b) aquamodis-3daysst
    c) cis
    d) cis2
    e) nws-ice
    f) nws-sst
    g) cis3
    h) cis4
3) Copy all the files from the directory you will be working on to your working directory.
4) If your ice imagery files end with
    a) .gz - run gunzip *.gz
    b) .zip – run unzip *.zip

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5) You will be creating a *.js file for the definition of the layers and a *.map file to be included in the polarstar.map file. Remember that only one group should be editing the layers.inc.js and polarstar.map file at a time. After you have finished with your data files and creating your .js and .map file, check if another group is editing the files before starting. After making the changes to the layers.inc.js and polarstar.map file, verify that the map loads correctly. Follow the directions below for the type of data files that you are working on.

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aquamodis-3daychloro:

a) Run create_map.pl program in your working directory. This will create .tif files for each of the .png images.
b) Run gdalinfo command on one of the .tif files. Find the projection information for the image.
c) Create a nasa_chlo.js file to define the layer name and a nasa_chlo.map file to define the layer information. Also include code to display a date-time label.
d) Copy the .tif, .map and .js files to data/polarstar/nasa_chlo directory.
e) Edit layers.inc.js file to add your .js file. Add line to layers.html file for your .js file. Add a symbolic link for your .js file to the html directory.
f) Edit polarstar.map file and add the include statement for your .map file.
g) Add information to the layers.inc.js file to display the aquamodis/chlor_a.html file. See the SSMIS layer for an example.
h) Test mapserver.

Ice Imagery Exercise

aquamodis-3daysst:

a) Run create_tif.pl program in your working directory. This will create .tif files for each of the .png images.
b) Run gdalinfo command on one of the .tif files. Find the projection information for the image.
c) Create a nasa_sst.js file to define the layer name and a nasa_sst.map file to define the layer information. Also include code to display a date-time label.
d) Copy the .tif, .map and .js files to data/polarstar/nasa_sst directory.
e) Edit layers.inc.js file to add your .js file. Add line to layers.html file for your .js file. Add a symbolic link for your .js file to the html directory.
f) Edit polarstar.map file and add the include statement for your .map file.
g) Add information to the layers.inc.js file to display the aquamodis/sst.html file. See the SSMIS layer for an example.
h) Test mapserver.

Ice Imagery Exercise

nws-ice:

a) tar xvpf Full_07May.tar
b) Run the ogrinfo command on one of the shapefiles. Find the projection information for the image.
c) Create a nws-ice.js file to define the layer name and a nws-ice.map file to define the layer information. Also include code to display a date-time label.
d) Copy all the data, .map and .js files to data/polarstar/nws-ice directory.
e) Edit layers.inc.js file to add your .js file. Add line to layers.html file for your .js file. Add a symbolic link for your .js file to the html directory.
f) Edit polarstar.map file and add the include statement for your .map file.
g) Add information to the layers.inc.js file to display the nwsice.html file. See the SSMIS layer for an example.
h) Edit your .map file to include the information in the nws-ice.map file which will color each of the types of ice differently.
i) Add information to your map file to display the template html files.
j) Test mapserver.

Ice Imagery Exercise

nws-sst:

a) tar xvpf sst_GFE_08May12.tar
b) Run the ogrinfo command on one of the shapefiles. Find the projection information for the image.
c) Create a nws-sst.js file to define the layer name and a nws-sst.map file to define the layer information. Also include code to display a date-time label.
d) Copy all the data, .map and .js files to data/polarstar/nws-sst directory.
e) Edit layers.inc.js file to add your .js file. Add line to layers.html file for your .js file. Add a symbolic link for your .js file to the html directory.
f) Edit polarstar.map file and add the include statement for your .map file.
g) Edit your .map file to include the information in the sst-extra.map file which will color each of the sst values differently.
h) Test mapserver.

Ice Imagery Exercise

cis:

a) tar xvpf cis_SGRDIAL_20110904_pl_a.tar
b) Run the ogrinfo command on one of the shapefiles. Find the projection information for the image.
c) Create a cis.js file to define the layer name and a cis.map file to define the layer information. Also include code to display a date-time label.
d) Copy all the data, .map and .js files to data/polarstar/cis directory.
e) Edit layers.inc.js file to add your .js file. Add line to layers.html file for your .js file. Add a symbolic link for your .js file to the html directory.
f) Edit polarstar.map file and add the include statement for your .map file.
g) Edit your .map file to include the information in the cis-extra.map file which will color each of the ice values differently.
h) Add information to your map file to display the template html files.
i) Test mapserver. This ice imagery is located in the Chukchi Sea, so you will need to reposition the map to see the imagery.

Ice Imagery Exercise

cis2:

a) tar xvpf cis_SGRDIAL_20110911_pl_a.tar
b) Run the ogrinfo command on one of the shapefiles. Find the projection information for the image.
c) Create a cis2.js file to define the layer name and a cis2.map file to define the layer information. Also include code to display a date-time label.
d) Copy all the data, .map and .js files to data/polarstar/cis2 directory.
e) Edit layers.inc.js file to add your .js file. Add line to layers.html file for your .js file. Add a symbolic link for your .js file to the html directory.
f) Edit polarstar.map file and add the include statement for your .map file.
g) Edit your .map file to include the information in the cis-extra.map file which will color each of the ice values differently.
h) Add information to your map file to display the template html files.
i) Test mapserver. This ice imagery is located in the Chukchi Sea, so you will need to reposition the map to see the imagery.

Ice Imagery Exercise

cis3:

a) tar xvpf cis_SGRDIAL_20110919_pl_a.tar
b) Run the ogrinfo command on one of the shapefiles. Find the projection information for the image.
c) Create a cis3.js file to define the layer name and a cis3.map file to define the layer information. Also include code to display a date-time label.
d) Copy all the data, .map and .js files to data/polarstar/cis3 directory.
e) Edit layers.inc.js file to add your .js file. Add line to layers.html file for your .js file. Add a symbolic link for your .js file to the html directory.
f) Edit polarstar.map file and add the include statement for your .map file.
g) Edit your .map file to include the information in the cis-extra.map file which will color each of the ice values differently.
h) Add information to your map file to display the template html files.
i) Test mapserver. This ice imagery is located in the Chukchi Sea, so you will need to reposition the map to see the imagery.

Ice Imagery Exercise

cis4:

a) tar xvpf cis_SGRDIAL_20110926_pl_a.tar
b) Run the ogrinfo command on one of the shapefiles. Find the projection information for the image.
c) Create a cis4.js file to define the layer name and a cis4.map file to define the layer information. Also include code to display a date-time label.
d) Copy all the data, .map and .js files to data/polarstar/cis4 directory.
e) Edit layers.inc.js file to add your .js file. Add line to layers.html file for your .js file. Add a symbolic link for your .js file to the html directory.
f) Edit polarstar.map file and add the include statement for your .map file.
g) Edit your .map file to include the information in the cis-extra.map file which will color each of the ice values differently.
h) Add information to your map file to display the template html files.
i) Test mapserver. This ice imagery is located in the Chukchi Sea, so you will need to reposition the map to see the imagery.