

Installing and testing Hydra and McIDAS-V

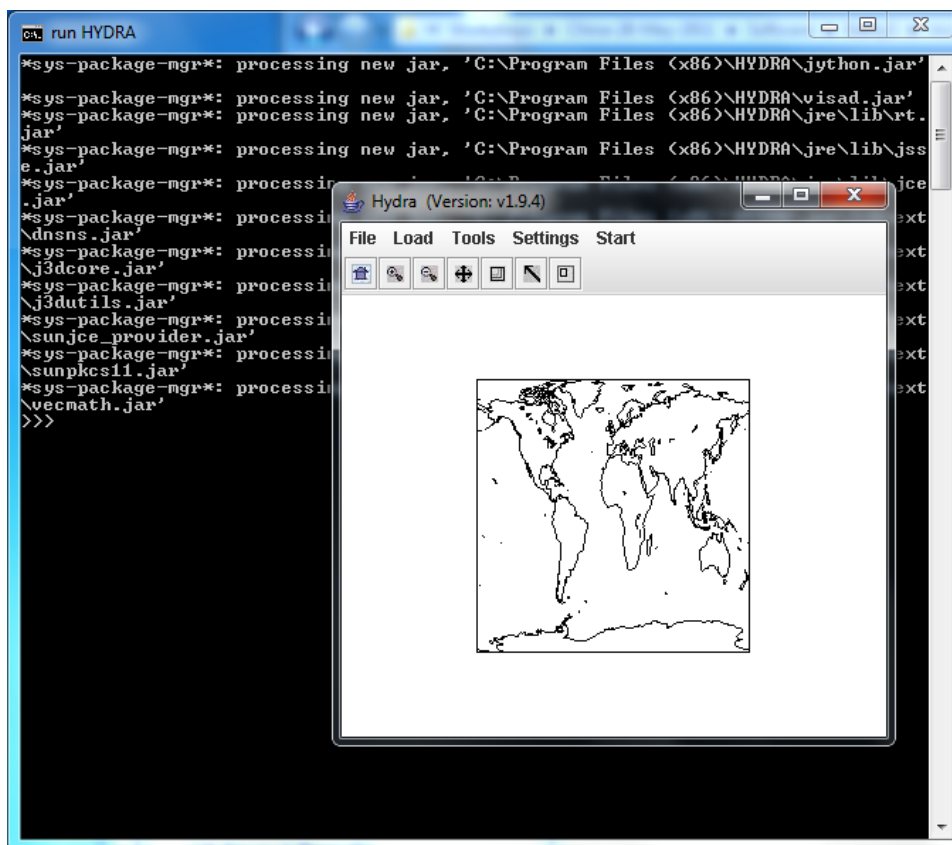
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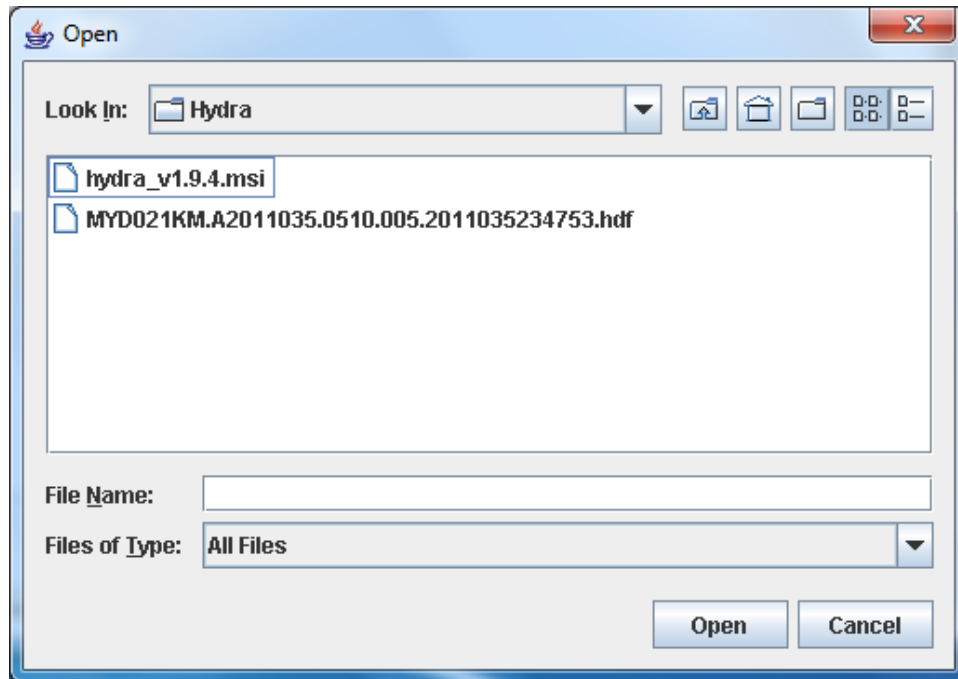
Download the files under the FTP directories <ftp://ftp.ssec.wisc.edu/pub/willemm/workshop/China-28-May-2011/hydra> and <ftp://ftp.ssec.wisc.edu/pub/willemm/workshop/China-28-May-2011/mcidasv>.

Hydra

1. There should be two files in the Hydra directory, the two file names are
 - a. hydra_v1.9.4.msi
 - b. MYD021KM.A2011035.0510.005.2011035234753.hdf
2. Double click on the “hydra_v1.9.4.msi” file and proceed with the Hydra installation.
3. After installing Hydra version 1.9.4, execute Hydra.
5. Two windows will appear on the screen, a command line window and the Hydra workspace window:

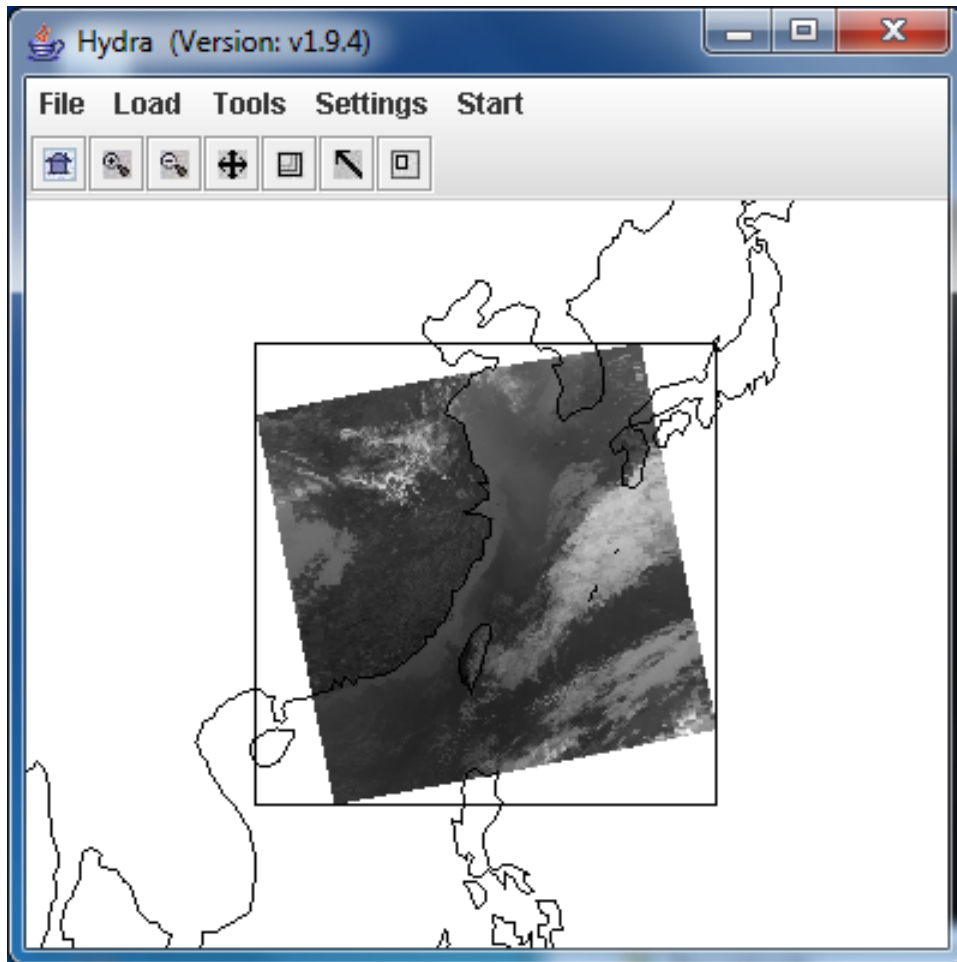


6. Go to the Hydra toolbar and click on *Load*, and then on *Local Data*. The following window will appear on the screen:



7. Browse to the directory where the file "MYD021KM.A2011035.0510.005.2011035234753.hdf" is archived, and load the file.

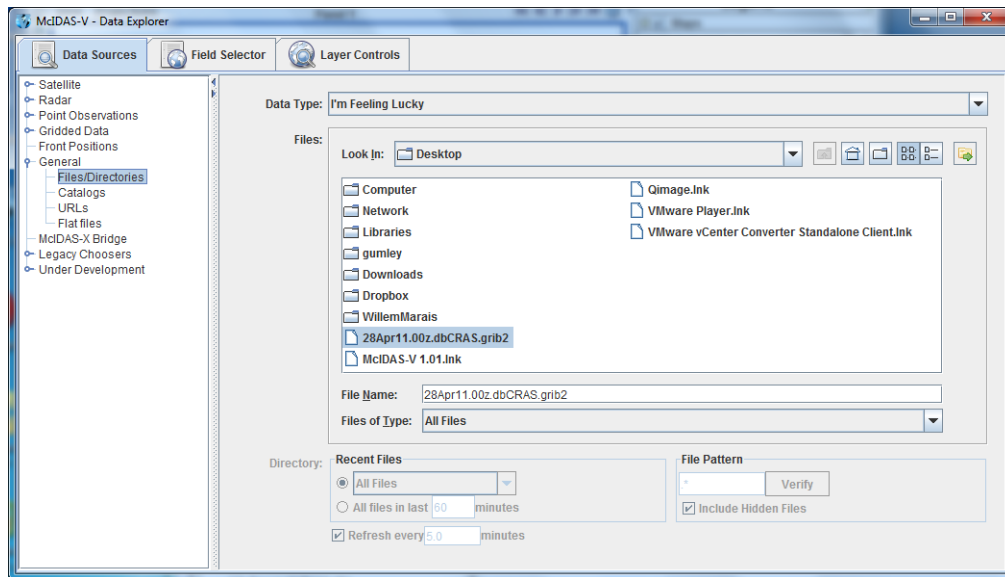
8. After the data file has been loaded, the Hydra workspace window will display the following:



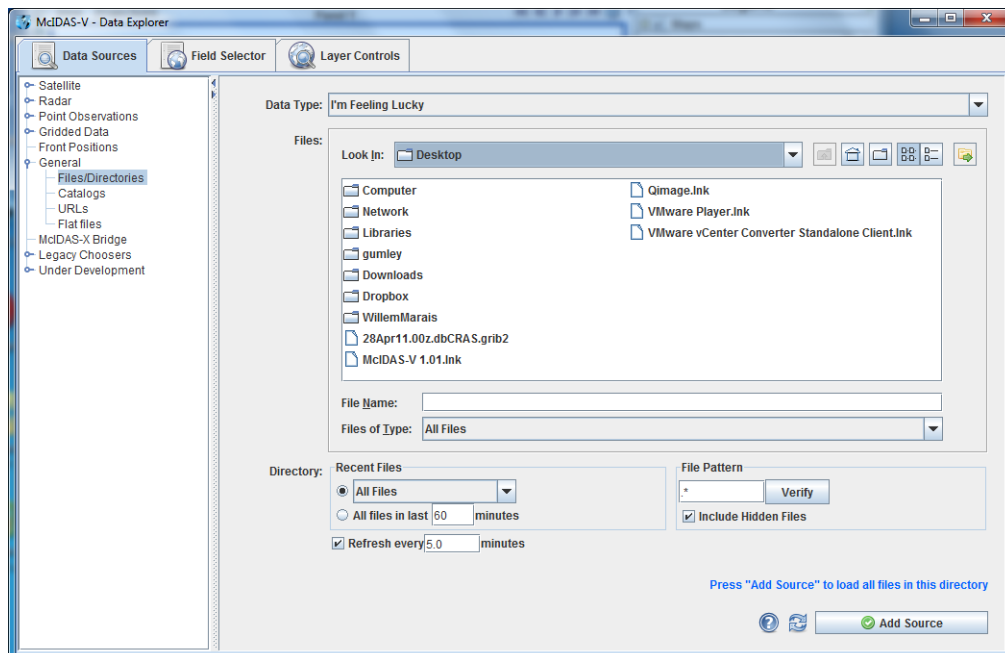
9. If the data is displayed in the Hydra workspace window, the installation of Hydra was successful.

McIDAS-V

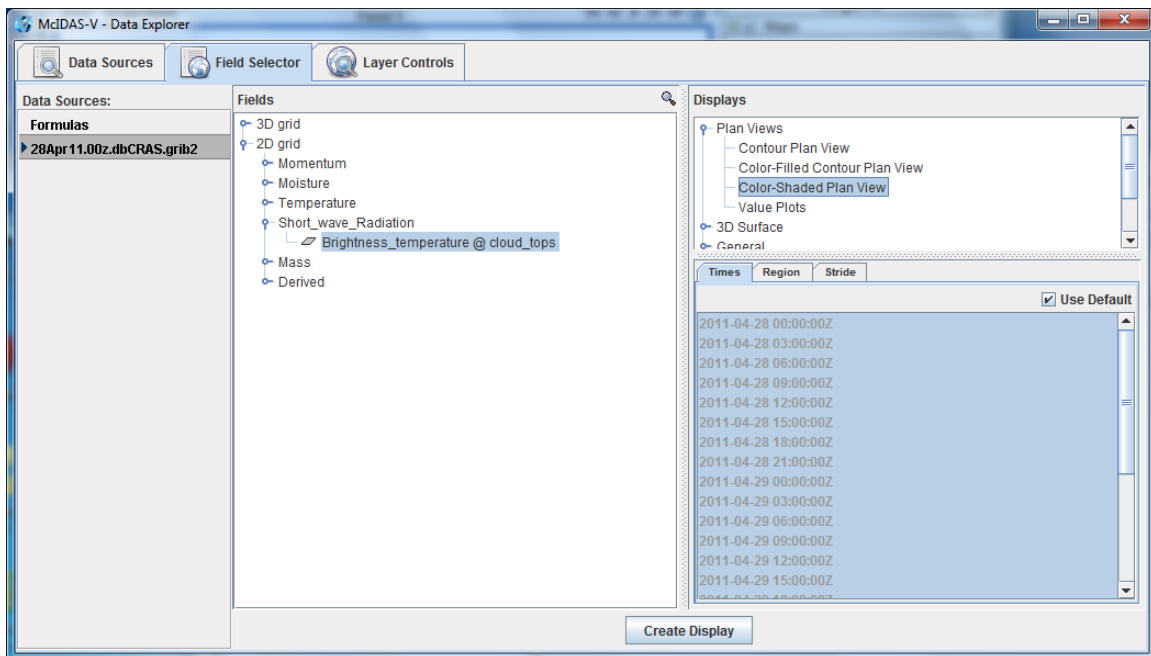
1. There should be two files in the McIDAS-V directory, the two file names are
 - a. McIDAS-V_1.01_windows_installer.exe
 - b. 28Apr11.00z.dbCRAS.grib2
2. Double click on the “McIDAS-V_1.01_windows_installer.exe” file and proceed with the McIDAS-V installation.
3. After McIDAS-V has been installed, execute McIDAS-V. Two windows will appear on the screen, one of which is called ‘Data Explorer’. The following image shows an example of the ‘Data Explorer’ window:



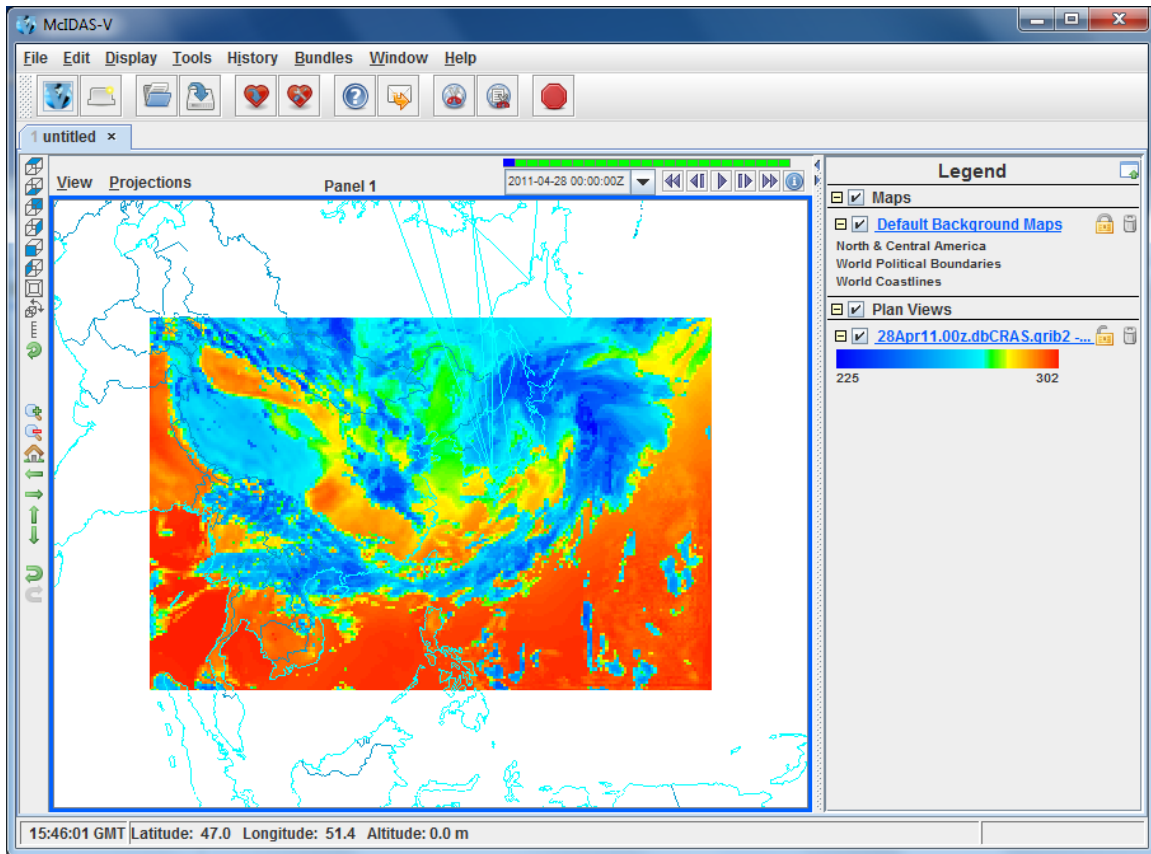
4. Make the ‘Data Explorer’ larger at the bottom of the window until a button appears at the bottom right of the window, which is labeled as “Add Source”:



5. Browse to the directory where the file “28Apr11.00z.dbCRAS.grib2” is archived, select the file and click on the button ‘Add Source’.
6. The ‘Data Explorer’ window appearance will change, and the tab ‘Field Selector’ will be displayed in the window.
7. Next the brightness temperature data must be loaded.
 - a. To the left of the ‘Field Selector’ tab, select the data source which is called “28Apr11.00z.dbCRAS.grib2”.
 - b. In the middle of the tab under the “Fields” column select “2D grid”, and select the “Short_wave_Radiation” option. Click then on the “Brightness_temperature @ cloud_tops” option.
 - c. On the right most column which is called “Displays”, click on the “Plan Views” option and then on the “Color-Shaded Plan View” option.



8. Click then on the bottom button which is labeled as 'Create Display'. The following window should then appear on the screen:



9. The complete the test, click on the “play” button. The following image shows an example of the “play” button labeled with a red rectangular box:



10. The image in the main workspace windows should be an animation of the brightness temperature. The McIDAS-V installation is successful if the brightness temperature animation is successful.