8 Day MODIS SCE

PPG Highlights

Pre-requisites

All these steps were done Wednesday morning, this list is for reference only

- Get code from training site
- Setup master_config.py
  - master_config.py file must contain the correct information for your system
- Base data folder must exist with a pre-existing dates' files in place
  - <base_data_path>\data\Asia\8day\modissnowcoverextent
- Required template files must exist, get from training site
- Grids with monthly averages must exist, get from training site

Run Dates

- Can run as a scheduled task or from console
- From the console, a step(integer 0 - 3, required) and a specific Julian date(yyyy jjj, optional) may be provided(must be on the 8 day rotation)
  - Overwrite any existing outputs
  - See pdf for non-leap year Julian dates(use same for leap years)
- From a scheduled task and from the console, if a specific date is not provided
  - Script will check for the last processed data and then calculate the next period's date
  - If it can't find source data for that date it just exits
- Step 1 will download data
- Step 2 will convert the downloaded hdf files to a tiff file
- Step 3 will create the graphics (.pdf, .png files)
- Step 0 will do steps 1-3

Running script

If no arguments are passed, the “usage” will display. This describes the arguments that are expected.

<script_folder>\bin\asia\centralasia\8day\modissnowcoverextent\centralasia_8day_snowcoverextent.py

<script_folder>\bin\asia\middleeast\iraq\8day\modissnowcoverextent\iraq_8day_snowcoverextent.py

Running script

These commands will run the process for the date March 6, 2019 (overwriting any files that exist for this date)

<script_folder>\bin\asia\centralasia\8day\modissnowcoverextent\centralasia_8day_snowcoverextent.py 0 2019 65

<script_folder>\bin\asia\middleeast\iraq\8day\modissnowcoverextent\iraq_8day_snowcoverextent.py 0 2019 65

Running script

These commands will run the process for the next period(overwriting any files that exist for this date)

<script_folder>\bin\asia\centralasia\8day\modissnowcoverextent\centralasia_8day_snowcoverextent.py 0

<script_folder>\bin\asia\middleeast\iraq\8day\modissnowcoverextent\iraq_8day_snowcoverextent.py 0

Running script

Simplest way to run from the console(command prompt)

<script_folder>\bin\allregions_asia_8day_snowcoverextent.py 0 yyyy jjj

This will run both Central Asia and Iraq regions

Overview

Script

- Downloads data,
- Creates a tif from downloaded file,
- Creates graphics showing:
  - current period vs last period
  - Current period vs monthly average
  - Current period vs last year’s period
- We will show an “automatic run” using the Windows Scheduled Task app
- We will show/practice several runs from the console

Other notes

- Must have account setup, for downloading data(we did this Monday afternoon)
- When using a scheduled task to run all regions or using the all regions script,
  - If Central Asia fails, it will run Iraq for previous period, but it checks for existing files, so it will not overwrite any existing outputs.
- If running by steps, other than step 0, you should provide a date (yyyy jjj) to avoid errors
- Example script writes the web data to a folder in local “data” folder,
  - This location is just an example location, you can use whatever location you choose,
  - You can change the location by changing the web_ops_path in the Master_config.py file.
- Data download takes several minutes, be patient when running from console