Innovation Lab Application Test – Nepac Data Retriever

## Command to run within the container.

*These instructions include sample commands. Tailor them to your environment.*

* 1. ssh ilab1xx
  2. git clone the core and nepac repositories
  3. cd nepac/model/datasets
     1. tar -xvzf /att/nobackup/cssprad1/nepac\_datasets.tar.gz
     2. cd ../../
  4. mkdir (*and/or cd*) path/to/desired\_directory
  5. mkdir (and/or cd) path/to/desired\_directory/output\_directory
  6. singularity shell -B /att /att/nobackup/iluser/containers/nepac-dev.sif
  7. export PYTHONPATH=`pwd`:`pwd`/core`pwd`/nepac
  8. python nepac/view/NepacCommandLineView.py -f nepac/model/tests/nepacInputOne.csv -md\_file nepac/model/tests/nepacTestSampleInputOne.txt -o ./output\_directory --celery

## Command to invoke container and run application.

* 1. time singularity run -B /att /att/nobackup/iluser/containers/nepac-dev.sif python nepac/view/NepacCommandLineView.py -f nepac/model/tests/nepacInputOne.csv -md\_file nepac/model/tests/nepacTestSampleInputOne.txt
  2. time singularity run -B /att /att/nobackup/iluser/containers/nepac-dev.sif python nepac/view/NepacProcessGUI.py
     1. Input dataset: nepac/model/tests/nepacInputTwo.csv

## Expected Results

For test 2.1:

* 1. There will be a lot of terminal output.
  2. In the output directory, you will find a CSV which should show rows with columns such as time, date, location, chl-a, as well as many more datapoints corresponding to the template ‘Mission-Subdataset’ e.g. ‘MODIS-Aqua-Rrs\_531’

For test 2.2:

* 1. A GUI will pop open in two windows.
     1. The first window will be the main view.
     2. Select the input CSV through the button to choose input file.
     3. Select which subdatasets you want.
     4. Select the desired output directory.
     5. Select no-data and errored-data value.
     6. Submit job through the bottom button.
  2. The second window shows the STDOUT of the process. This shows:
     1. Subdatasets selected.
     2. Path to input file
     3. Path to output file
     4. No-data values
     5. Errored-data value