1. Using the command ***nccrat 3B42\*.nc out.nc*** concatenate netcdf files in rainfall filesinto one larger netcdf file containing all the files stacked together
2. I manually prepare a script to read hdf files and output the variable names in the files using the command ***ncl varnames.ncl | tail -n +15 | cut -c 5-80 > varnames.txt***
3. I will read and output the required aerosol into a nc files using ncl or grads
4. Downloaded the Modis Aerosol product II list. It was important to understand the products <https://cimss.ssec.wisc.edu/dbs/China2011/Day2/Lectures/MODIS_A-Kleidman_MODIS_AerosolProducts.pdf>
5. Understood that the aerosol dimensions are lon (43to 65) lat (0.5 to 4) degrees
6. Using ***ncl\_convert2nc***, you can create nc files from this hdfs and use ***ncview*** to view the files content
7. Discovered that ASTER has 30m resolution data, that is AST\_L1B data.
8. Discovered we can use AVHRR to detect biomass burning
9. We can also use ***h4tonccf\_nc4*** program (downloadable) to convert hdf files to nc files.
10. Discovered a ***hdfstruct.py*** program contained in examples/hdfstruct in pyhdf that does the same job as ***ncl\_filedump*** or ***ncdump*** on hdf files.
11. Wrote an ncl script to read off variables fromt he hdf files
12. Converted latitude and longitude into one dimensional arrays since they are in two dimensions
13. Coordinates of Narok are lon (34.590,36.436) and lat (-0.473, -2.109)
14. I plotted the ***Optical Depth Land and Ocean*** variable and found that some of the files do not contain data at all, which means, they are ***no data / missing*** values rather than no-record values.
15. Learned how to ***commit*** (add) a file to github.

Learn how to set up and push your file to your repositories.

First username is : kimloote

Password is: kimrefs551

***git init ; initialize git***

***touch README ; tell it to follow edits of a file “README”in current folder***

***git add README ; now tell you want to send the file README to your online repository***

***git commit -m 'first commit' ; follow it with a message you want***

***git remote add origin <https://github.com/yourusername/Hello-World.git> ; send the file***

***git push origin master ; send the file***