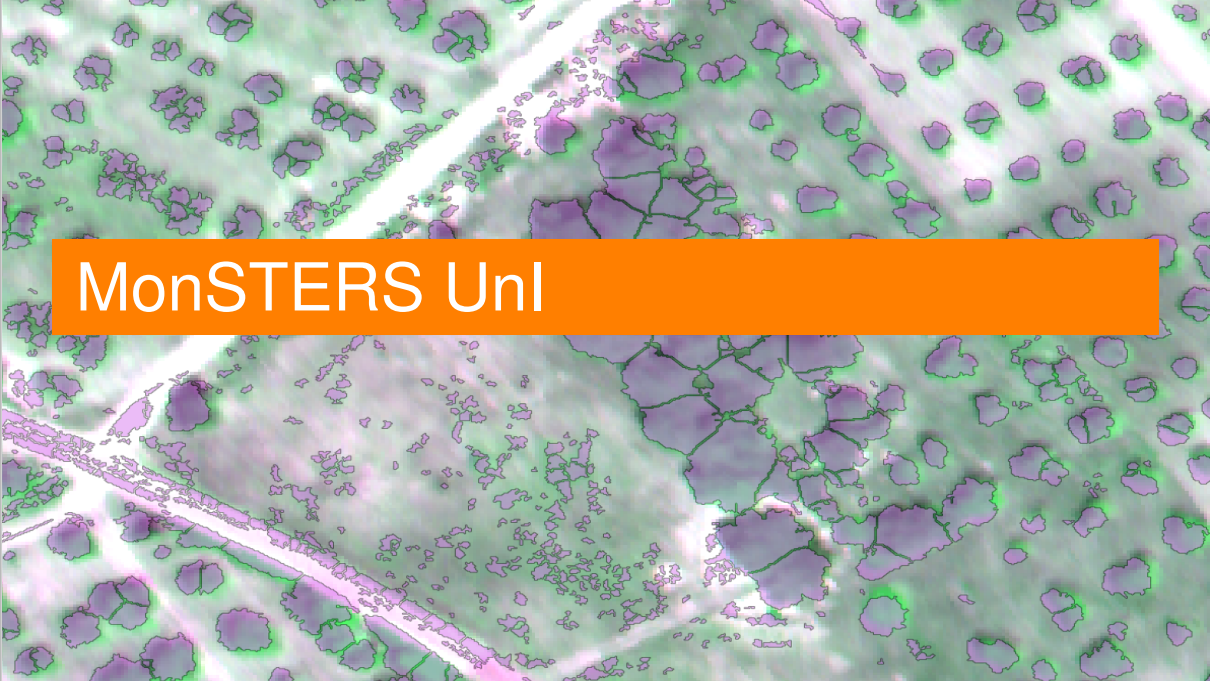

MonSTERS UnI

Resources available:

Tesla	139.191.148.131	/data/canhemon
HPC-MPI	hpc-gw1.jrc.it	/home/hpctest
HPC-EOSSSD	?	?

Processing chain

- Fiji/ImageJ sh => Tree crowns identification NDVI-based
- GRASS sh => Tree crown statistics into shp file
- Crown Indices sh => Additional indices from refl in shp

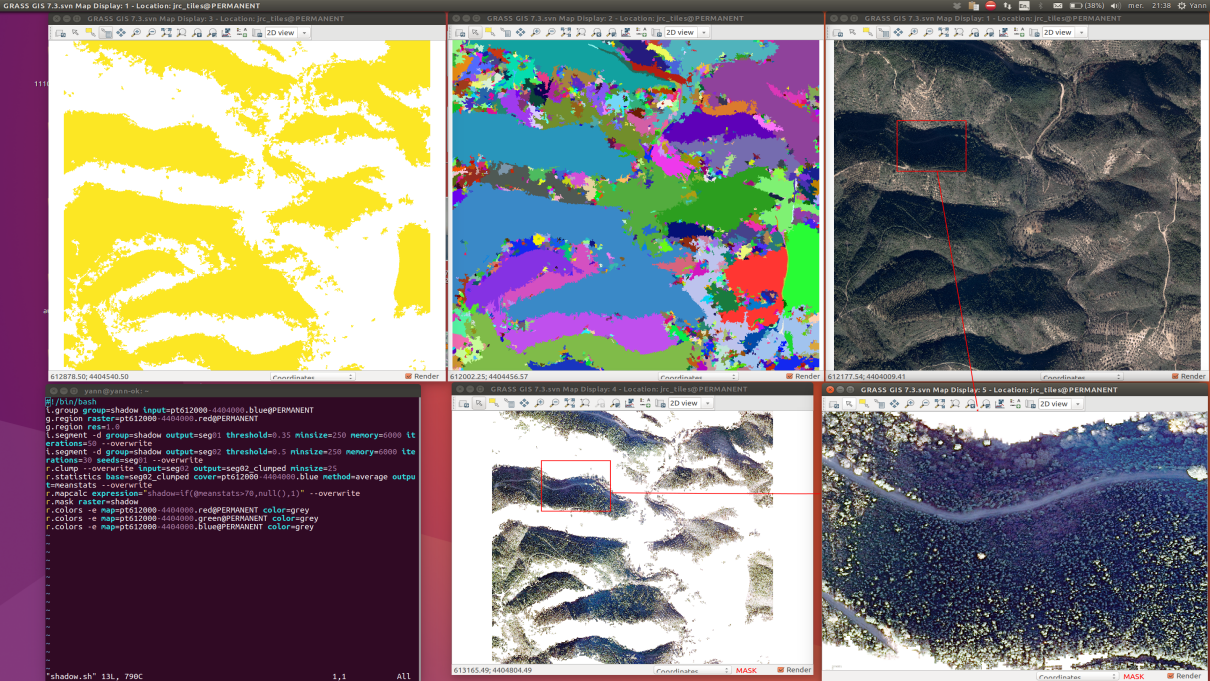

Tesla

GRASS script

- GRASS7.3 in Tesla
- GRASS7 => RGBNIR (Acc port)
- GRASS7 => thermal.sh (original port)
- GRASS7 => rgbnir.sh (original port)
- TODO: think about RGBNIR+Hyperspectral

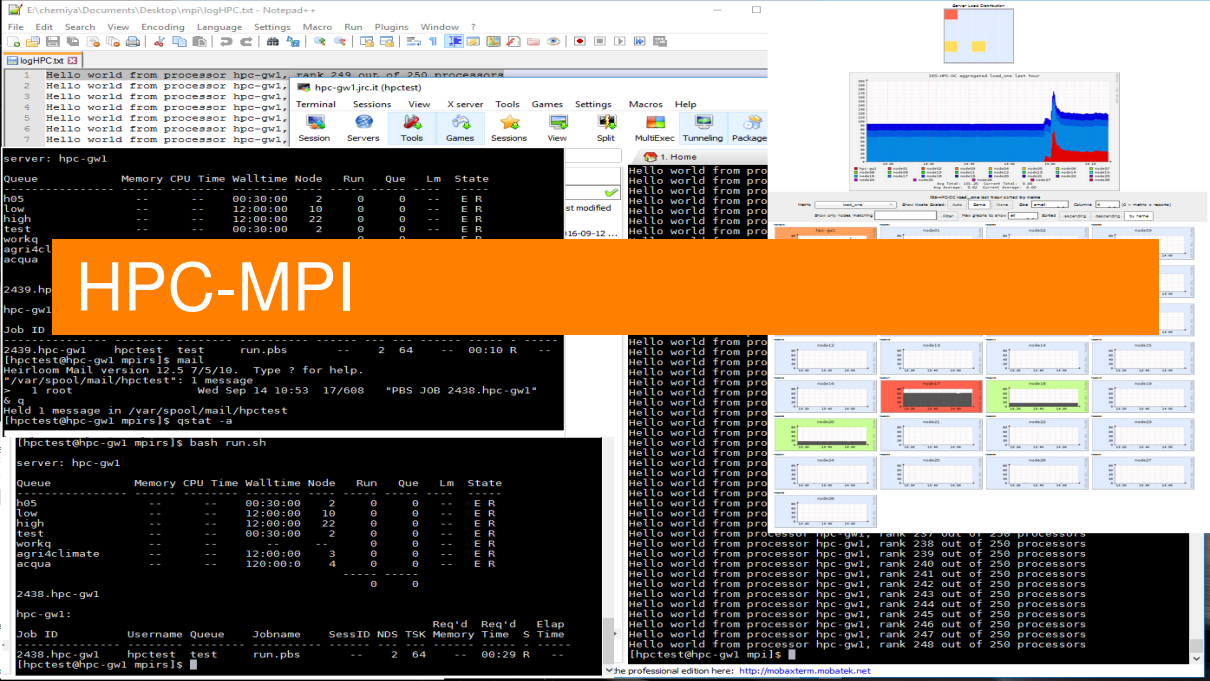
Tree crown creation

- Mask out villages from LU
- Processed Area 51 (future batch sample)
- Mask in shadow area and reprocess Tree Crown detection

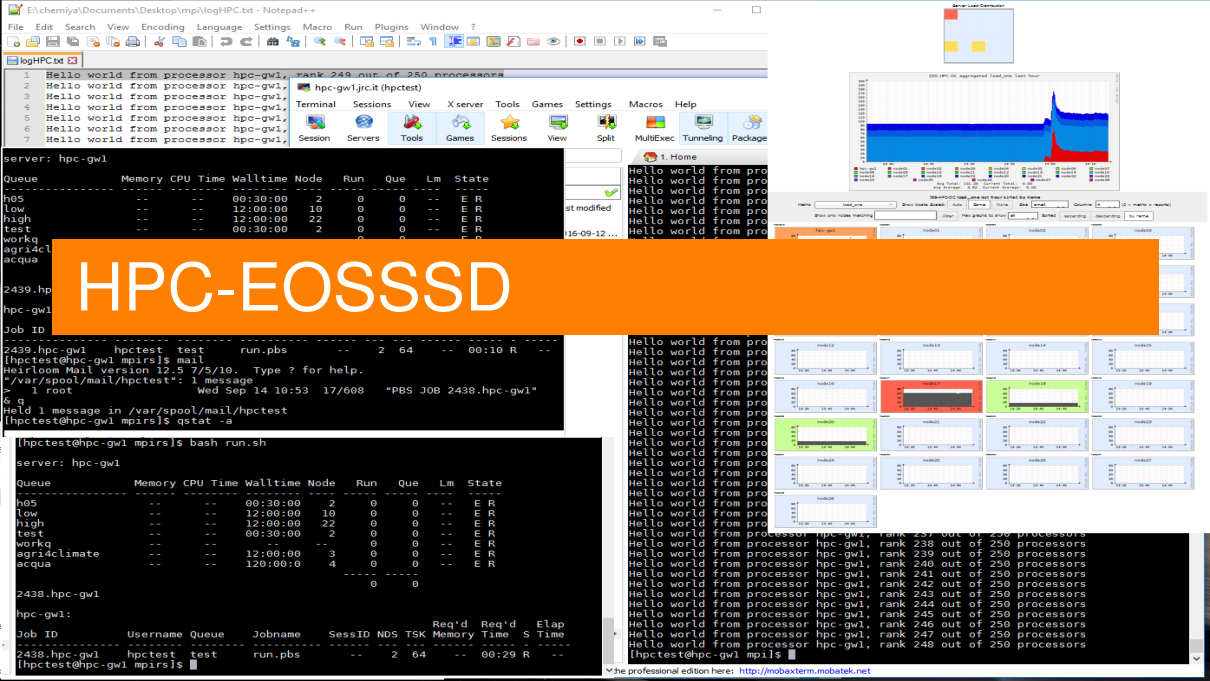

GRASS GIS 7.3.svn Map Display: 1 - Location: jrc_tiles@PERMANENT
GRASS GIS 7.3.svn Map Display: 2 - Location: jrc_tiles@PERMANENT
GRASS GIS 7.3.svn Map Display: 3 - Location: jrc_tiles@PERMANENT
GRASS GIS 7.3.svn Map Display: 4 - Location: jrc_tiles@PERMANENT
GRASS GIS 7.3.svn Map Display: 5 - Location: jrc_tiles@PERMANENT
2D view
Render
MASK
yann@yann-ok: ~
#!/bin/bash
i.group group=shadow input=pt612000-4404000.blue@PERMANENT
g.region raster=pt612000-4404000.red@PERMANENT
g.region res=1.0
i.segment -d group=shadow output=seg01 threshold=0.35 minsize=250 memory=6000 iterations=50 --overwrite
i.segment -d group=shadow output=seg02 threshold=0.5 minsize=250 memory=6000 iterations=30 seeds=seg01 --overwrite
r.clump --overwrite input=seg02 output=seg02_clumped minsize=25
r.statistics base=seg02_clumped cover=pt612000-4404000.blue method=average output=meanstats --overwrite
r.mapcalc expression="shadow=if(@meanstats>70,null(),1)" --overwrite
r.mask raster=shadow
r.colors -e map=pt612000-4404000.red@PERMANENT color=grey
r.colors -e map=pt612000-4404000.green@PERMANENT color=grey
r.colors -e map=pt612000-4404000.blue@PERMANENT color=grey
"shadow.sh" 13L, 790C
1,1
All

Cal Val

- Recursive v.what.rast
- Recommend to have a single shp file for all
- TODO: QGIS PostGIS read from Andrew's
- TODO: Script to create accuracy matrix


HPC-MPI

- MPI + OpenMP hydbrid
- distRS test OK
- PBS qsub issues, libGDAL not in cores only in FE
- still a test user (2 nodes, 64 cores, 30min)
- Adrian trying to add libgdal module
- R 3.3.1 is available on all nodes (future/different research)


HPC-EOSSSD

- Dockerfile
- Debian:testing
- ImageJ/Fiji TODO: FIJI v2 !
- GRASS-SVN compilation on build (v7.3)
- TODO: Use the CanHeMon scripts with it
- TODO: Strategy on data distribution
- TODO: meet Dario and Pieter K (today or tomorrow)


Thank you