

1. Setup your computer virtual environment for Ubuntu & StaMPS
 - 1) Virtualbox installation (done for you)
 - 2) Go FTP site for downloading virtual machine prepared for this class named: **ubuntu_stamps.ova** (virtual machine is **only** for this classroom, do not copy it to your personal computer. If you need it, please ask me directly.). Also the tarball data for practice.
 - 3) Make a directory named **vbox_share_folder** at disk D under windows, and move the downloaded data to **vbox_share_folder**
 - 4) Open virtualbox and adjust the setup items to avoid invalid options of the VM, then setup share folder as **vbox_share_folder** constructed in 3) (do not setup the mount point for it). Oracle virtualbox extension for the VM is needed for use share folder, but this is already installed in the VM for you.
 - 5) Now import the VM from virtualbox menu, and start the VM when it's finished import.
 - 6) Log in Ubuntu with name **sun** and passcode **11111111**. The following will be under Ubuntu system 19.10
 - 7) Correct some bugs of matlab as follows:

```

mkdir exclude
#driver issue:
~/MATLAB/R2018a/sys/os/glnxa64$ mv libstdc++.so.6 exclude
# libfont issue:
mv ~/MATLAB/R2018a/bin/glnxa64/libfreetype.so.6 exclude
sudo chmod 757 -R ~/.matlab
sudo chmod 757 -R ~/Documents/MATLAB

sudo mount -t vboxsf vbox_share_folder ./vbox_share
export PATH=/bin:/usr/bin:/usr/local/bin:PATH

# running matlab under share folder:
cd ~/vbox_share
matlab2018 -softwareopengl -nosplash -nodesktop

```

2. Working on practice datasets. The conventional InSAR processing has already been done for saving time. What you need to is only StaMPS for PS processing.

```

cd PATCH_14
setparam('plot_scatterer_size',15); % 120m
ps_plot('w',5,0,0,2)
stamps(2,2)
setparam('reest_gamma_flag','n') %62326 ->53239
stamps(3,3)
setparam('density',1) %54220 -> 46472
stamps(3,3)
setparam('weed_neighbours','n') % 45100
stamps(4,4)
stamps(5,5) % psver2

```

```
ps_plot('w',5/1,0,0,10)
setparm('weed_standard_dev',1.2) %46472-> 46342
stamps(4,5)
```

```
cd ../
gedit patch.list %7~24
stamps(5,5) %23457
setparm('merge_resample_size', 200) %full res -> 200m
stamps(5,5) %23457
setparm('unwrap_grid_size', 200)
stamps(6,6)
setparm('plot_scatterer_size',200)
ps_plot('u')
setparm('scla_deramp','y')
stamps(7,7)
ps_plot('u-dmo') % ps_plot('u/d/m/o')
ps_info
ps_plot('w-dmo')
setparm('scla_drop_index',[2,24])
stamps(7,7)
setparm('scla_drop_index',[])
stamps(7,7)
%scla_reset
stamps(6,7)
```

```
ps_plot('v-do','ts')
ps_plot('vs-do')
ps_plot('vdrop-do')
```

```
ps_plot('u',1,[],1,[])
```