HOW TO CREATE ENVIRONMENT TO ANALYZE ICESAT2 DATA ON MUSKOX

Install Anaconda3 to local directory using curl (in bash shell or your preferred shell):

a.
```
cd /tmp
curl -O https://repo.anaconda.com/archive/Anaconda3-2020.02-Linux-x86_64.sh
sha256sum Anaconda3-2020.02-Linux-x86_64.sh
bash Anaconda3-2020.02-Linux-x86_64.sh
```

******IMPORTANT STEP******

```
...

installation finished.

Do you wish the installer to prepend the Anaconda3 install location

to PATH in your ~/.bashrc ? [yes|no]

[no] >>
```

*****TYPE YES TO ADD TO YOUR PATH*****

b. I think it automatically assumes you're in a bash shell during install, so check your .bashrc to make sure conda was added to your path
   i. If you're not, add it to your path in the according .XXrc file
      1. can check which shell you're in by `echo $0`
   ii. You can temporarily switch to bash shell by `exec /bin/bash`

2. **Create minimum functionality icesat2 environment with python3.6**
   a. **With github**
      i.
```
git clone https://github.com/cescherbrayton/icesat2.git

conda env create -f icesat2. Yml

conda activate icesat2
```

   b. **Without github**

i. `conda create --name icesat2 python=3.6 jupyter xarray numpy scipy pandas netcdf4 matplotlib basemap h5py curl`

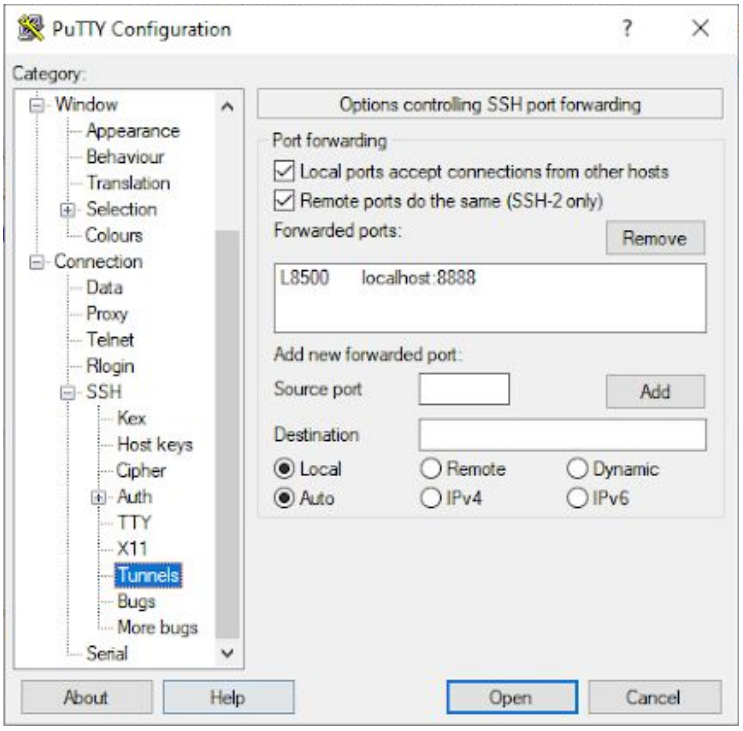
ii. Consider adding packages to create_default_packages section of your .condarc configuration file for whichever packages you want to install to every conda environment you make

c. `conda activate icesat2`

d. To deactivate this environment, use `conda deactivate`

3. **Set us SSH tunnelling for Jupyter Notebooks**

a. If you're using PuTTY

i. 

ii. Launch session, activate icesat2 environment, `jupyter notebook`

iii. Paste http://localhost:8500/ (or your preferred source port) into your preferred browser to open the notebook