Geogrid

python ../../geogrid\_autorift/testGeogrid\_ISCE.py -m ../fine\_coreg -s ../secondary -d ../../geogrid\_req/demtest\_roi.tif -sx ../../geogrid\_req/demtest\_roi\_X.tif -sy ../../geogrid\_req/demtest\_roi\_Y.tif -ssm ../../geogrid\_req/ssm.tif

AutoRIFT

python ../../geogrid\_autorift/testautoRIFT\_ISCE.py -m ../merged/reference.slc.full -s ../merged/secondary.slc.full -g window\_location.tif -vx window\_rdr\_off2vel\_x\_vec.tif -vy window\_rdr\_off2vel\_y\_vec.tif -ssm window\_stable\_surface\_mask.tif -mpflag 128 -nc S -ncname name

python3 ../glacier\_flow\_analysis/setup\_env.py --reference https://datapool.asf.alaska.edu/SLC/SA/S1A\_IW\_SLC\_\_1SDV\_20190509T124801\_20190509T124828\_027151\_030F85\_9644.zip --secondary https://datapool.asf.alaska.edu/SLC/SA/S1A\_IW\_SLC\_\_1SDV\_20190602T124802\_20190602T124829\_027501\_031A6E\_CE84.zip --orbit\_path ../data/2019/orbits/ --data\_pathR ../data/2019/may/ --data\_pathS ../data/2019/jun/

topsApp.py topsApp.xml --start-startup --end=denseoffsets

python3 ../glacier\_flow\_analysis/setup\_env.py --reference https://datapool.asf.alaska.edu/SLC/SA/S1A\_IW\_SLC\_\_1SDV\_20190801T124806\_20190801T124833\_028376\_0334E4\_82C5.zip --secondary https://datapool.asf.alaska.edu/SLC/SA/S1A\_IW\_SLC\_\_1SDV\_20190825T124807\_20190825T124834\_028726\_0340A2\_D636.zip --orbit\_path ../data/2019/orbits/ --data\_pathR ../data/2019/aug/ --data\_pathS ../data/2019/aug/

/DATA/glacier-vel/geogrid\_req/offset\_tracking.sh ./ ov128 --> offset\_track ov128

## Docker

apt install wget

sudo docker run -it isce:latest bash

# Stack

python3 stackSentinel.py -s ../data/stack/ -d ./ -a ../data/aux/ -o ../data/orbits/ -b '32.06 32.77 76.86 77.82' -t 'python3 {cwd}/stack/topsStack/'

python3 stack\_process.py --save\_path /DATA/glacier-vel/stack\_test2/ --aux /DATA/glacier-vel/data/aux/ --data\_path /DATA/glacier-vel/stack\_data/ --config /DATA/glacier-vel/Automated\_Offset\_Tracking/configs/data\_config.json --download\_txt /DATA/glacier-vel/Automated\_Offset\_Tracking/data/stack\_data2.txt

python3 isce\_batch.py --save\_path /DATA/glacier-vel/output/ --config /DATA/glacier-vel/Automated\_Offset\_Tracking/configs/data\_config.json --download\_csv /DATA/glacier-vel/Automated\_Offset\_Tracking/data/data\_download1.csv

python offset\_batch.py --save\_path /DATA/glacier-vel/output/ --download\_csv /DATA/glacier-vel/Automated\_Offset\_Tracking/data/data\_download1.csv --config /DATA/glacier-vel/Automated\_Offset\_Tracking/configs/data\_config.json

cmd = ")

gdal\_translate -of ENVI {} {}".format(os.path.join(mergedir, 'reference.slc'+suffix+'.vrt'), os.path.join(mergedir, 'reference.slc'+suffix)

runCmd(cmd)

cmd = "gdal\_translate -of ENVI {} {}".format(os.path.join(mergedir, 'secondary.slc'+suffix+'.vrt'), os.path.join(mergedir, 'secondary.slc'+suffix))

runCmd(cmd)

python3 stack\_process.py --save\_path /DATA/glacier-vel/stack\_test/ --aux /DATA/glacier-vel/data/aux/ --data\_path /DATA/glacier-vel/stack\_data/ --config /DATA/glacier-vel/Automated\_Offset\_Tracking/configs/data\_config.json --download\_txt /DATA/glacier-vel/Automated\_Offset\_Tracking/data/stack\_data.txt

ssh -L 8080:localhost:8888 dbalaji@172.26.126.105

jupyter notebook --no-browser --port=8888

python3 /DATA/glacier-vel/Automated\_Offset\_Tracking/preprocessing/setup\_env.py --roi "[29.47, 30.29, 78.64, 79.79]" --reference S1A\_IW\_SLC\_\_1SDV\_20190801T124716\_20190801T124743\_028376\_0334E4\_F625 --secondary S1A\_IW\_SLC\_\_1SDV\_20190906T124718\_20190906T124745\_028901\_0346BD\_7CD3 --orbit\_path /DATA/glacier-vel/data/orbit/ --data\_pathR /DATA/glacier-vel/data/dem\_test/ --data\_pathS /DATA/glacier-vel/data/dem\_test/ --type demApp