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## **Running a script from Snappy**

We use a python script (snappy\_backscatterLAI.py) from Snappy to generate LAI map given Sentinel-1 VV and VH data (in C11 and C22 form) using Water Cloud Model inversion. **User Guide:** 

- Download the Script (snappy\_backscatterLAI.py) and a sample LUT (generated from forward WCM) rice LUT.csv from Github repository.
- Copy these two files in snappy installation directory
   C:\Anaconda3\envs\snappy36\Lib\snappy\examples\LAI AWS
- Keep Sentinel-1 preprocessed data in C:\Anaconda3\envs\snappy36\Lib\snappy\testdata

## **Running script from snappy**

1. Open Anaconda Command prompt (no Admin privileges are required)

```
>> conda activate snappy36
>> cd to snappy directory where script was
copied(C:\Anaconda3\envs\snappy36\Lib\snappy\examples\LAI_A
WS)
C:\Anaconda3\envs\snappy36\Lib\snappy\examples\LAI_AWS>pyth
on.exe snappy_backscatterLAI.py
../../testdata/S1A_IW_SLC__1SDV_20180816_Orb_Cal_deb_ML_sub
set_mat_Spk_TC.dim
```

## Where

../../testdata/S1A\_IW\_SLC\_\_1SDV\_20180816\_Orb\_Cal\_deb\_ML\_subset \_\_mat\_Spk\_TC.dim is the directory path of Sentinel-1 preprocessed data having C11 and C22 bands.

## **Resources:**

https://forum.step.esa.int/t/snappy-where-to-start/1463