Must have downloaded S1 images
in a dir named after your REGION :
…/SAR_DATA/S1/S1-DATA-*REGION*-SLC.UNZIP

RAWDATADIR
(where raw data are stored, named after REGION, eg:
…/SAR_DATA/S1/S1-DATA-*REGION*-SLC.UNZIP)

Prepare and Read hard coded parameters

Create log in DATAPATH and save time and date: …/SAR_CSL/S1/ARG_DOMU_LAGUNA/Last_Run_Cron_Step1.txt

Read hard coded parameters:
- BP, BT = Max Perpendicular and Temporal Baseline
- NEWASCPATH = Where to store the resampled data
- NEWDESCPATH = Where to store the resampled data (in …/SAR_SM/RESAMPLED/S1/*REGION_TRK*/CROPDIR)

DATAPATH
(where CSL data are stored) e.g.:
/Volumes/.../SAR/CSL
=> INPUTDATA is DATAPATH/SAT/TRK/CROPDIR

Read all S1 Images for the desired footprint

Read_All_Img.sh RAWDATADIR DATAPATH/NoCrop SAT PATHTOKML > /dev/null 2>&1

PATHTOKML
(where kml are stored) e.g.:
../KML/…

Coregister All images on a Super Master

SuperMasterCoreg.sh PATHTOPARAM/Parameters_File_ASC_For_Coreg.txt &

SuperMasterCoreg.sh PATHTOPARAM/Parameters_File_DESC_For_Coreg.txt &

PATHTOPARAM
(where parameters files are stored) e.g.:
../Param_files_SuperMaster/…)

Pair selection and baseline plot

Ins_All_Img.sh DATAPATH/NoCrop PATHTOSET/set1 SAT > /dev/null 2>&1 &

Ins_All_Img.sh DATAPATH/NoCrop PATHTOSET/set2 SAT > /dev/null 2>&1 &

Test if new Asc data

YES

Test if new Desc data

YES

PATHTOSET
(where pairs are selected for MSBAS e.g.:
…/SAR_SM/MSBAS/REGION/…)

Prepa_MSBAS.sh PATHTOSET/set1 BP BT 0 0 YYYYMMDD > /dev/null 2>&1 &

where YYYYMMDD is Super Master Date in Ascending

Prepa_MSBAS.sh PATHTOSET/set2 BP BT 0 0 YYYYMMDD > /dev/null 2>&1 &

where YYYYMMDD is Super Master Date in Descending

Test if new Asc and Desc data

YES

make and/or cd PATHTOSET/BaselinePlots_S1_set_1_2

Create a list of sets with path (ModeList.txt)

plot_Multi_span.sh ModeList.txt 0 BP 0 BT $PATH_SCRIPTS/SCRIPTS_OK/ColorTable_AD.txt

RESAMPDATAPATH
(where data resampled on SM are stored) e.g.:
/Volumes/.../SAR_SM/RESAMPLED
=> OUTPUTDATA is RESAMPDATAPATH/SAT/TRK/SMCROPDIR

Close Log file with date and time

Cron_Step1_Read_Coreg.graffle
V Distro 1. - Mach 31 2021

NOTES:

1) Script must be tuned:

This cron script contains several hard coded info which need to be revised and tuned to your needs. It is written here for S1 but it could of course be adapted to any other sat.

2) More than 2 modes ?

This script can be adapted to as much modes as required. In the present case, set1 is Asc and set2 is Desc, but this is arbitrary and more sets are possible. It will however require adaptation of the script to plot the baseline plot.

3) Symbols used

> /dev/null 2>&1 : mutes errors and output messages
& : executes script(s) in background; needs "wait" to carry on when all background processes are finished.