

Must have run  
SuperMasterCoreg.sh  
first

Read Inputs

Pairs File

Parameters  
File

[List of Processed]:

-list=filename (as MASMATE\_SLVDATE) or  
-f to check from Geocoded/Mode

FUNCTIONS\_FOR\_CIS.sh  
(script with fcts;  
must be in PATH)

PATHMASK  
(where mask are stored) e.g.:  
../SAR\_SM/MASK/...

DATAPATH  
(where data are stored) e.g.:  
/Volumes/.../SAR/CSL

DEMDIR  
(where DEM are stored) e.g.:  
/Volumes/.../DEM/SRTM30/  
ALL

PROROOTHPATH =  
from ParametersFile.txt

PROPATH =  
PROROOTHPATH/SAT/TRK

RUNDIR =  
PROPATH/  
SMCROPDIR\_Zoom\_ML

RESAMPDATAPATH  
(where data resampled on  
SM are stored) e.g.:  
/Volumes/.../SAR\_SM/  
RESAMPLED

MASSPROCESSPATH =  
from ParametersFile.txt

MASSPROCESSPATHLONG  
=  
MASSPROCESSPATH/SAT/  
TRK/  
SMCROPDIR\_ZOOM\_ML

PREPARE

DEM

cd RUNDIR

Define **MAINRUNDIR** = RUNDIR  
Define **FORMERMASK** = MASSPROCESSPATHLONG/slantRange.txt  
Compute pix aspect ratio from SUPERMASTER:  
Rg / Az sampling taking into account incidence look angle.  
Define **RGSAMP**, **AZSAMP**, **INCIDANGL**, **RATIO**, **RATIOREAL**

If S1  
WideSwath

YES

Select all different masters from  
**Pairs\_to\_process\_RunDate\_RandomNr.txt**

Is Mask  
requested ?

Log and Speak out  
warning: it is your  
responsibility to  
check if mask is the  
same as already  
used

YES: Define  
**MASKBASENAME** =  
basename **PATHMASK**  
and warning

NO : Define  
**MASKBASENAME** = NoMask

No

Is Mask  
requested ?

NO : Define  
**MASKBASENAME** = NoMask

YES:

Test  
**FORMERMASK** = requested  
**PATHMASK**

YES : Define  
**MASKBASENAME** = basename **PATHMASK**

No :  
warning

Log and Speak out  
warning: Mask requested  
is not the same as former  
SuperMasterCoreg  
processing

for all **MASTER** from **Pairs\_to\_process\_RunDate\_RandomNr.txt**

For each different master, define  
**IMGWITHDEM** = MASONLYNAME  
Compute **PIXSIZEAZ** and **PIXSIZEZ**

Define **IMGWITHDEM** = SUPERMASNAME  
Compute **PIXSIZEAZ** and **PIXSIZEZ**

ManageDEM

Test parameter  
RECOMPDEM

KEEP

UNKNOWN

Test if  
externalSlantRangeDEM  
file exists

NO

Test  
if mask is needed

NO

Test if  
slantRangeMask\_maskName  
file exists

NO

Clear possible existing  
unnecessary  
slantRangeMask

update links to  
slanRangeMask and its txt

run  
**MasterDEM.sh** **IMGWITHDEM** **ParametersFile.txt**  
which store externalSlantRangeDEM (and mask if needed) in CROPDIR  
See corresponding flow chart (MasterDEM\_FlowChart.graffle).

Amplitude and Coeg

InSAR and Unwrap

GeoCode and Log

NOTES:

1) Some names are shorten here for  
the sake of clarity:

SAT is SATDIR in scripts  
TRK is TRKDIR in scripts

2) Possible issue:

- Crop using kml for sat other than S1 is not tested yet. Process is hence artificially  
stopped in script.  
- Search for existing pairs using option -f is made in MASSPROCESSEDPATHLONG/  
Geocoded/DefolInterpolx2Detrend. If not available, you may need to check from another  
mode dir (eg. Defo).

SuperMaster\_MassProc\_FlowChart\_Part1\_DEM.graffle  
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