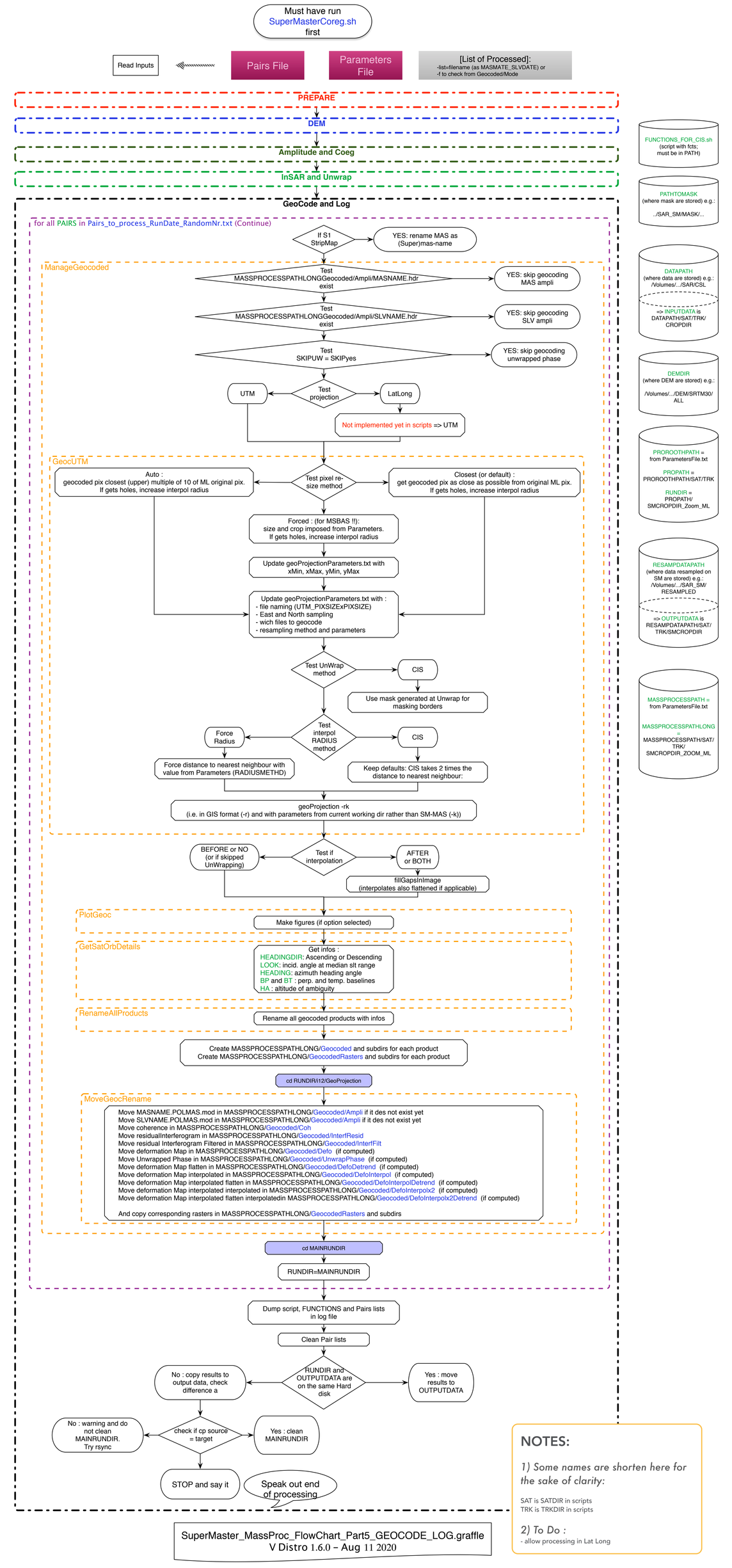
Must have run SuperMasterCoreg.sh first
Read Inputs
Pairs File
Parameters File
[List of Processed]:
-list=filename (as MASMATE_SLVDATE) or
-f to check from Geocoded/Mode
PREPARE
DEM
Amplitude and Coeg
InSAR and Unwrap
GeoCode and Log
FUNCTIONS_FOR_CIS.sh
(script with fcts;
must be in PATH)
PATHTOMASK
(where mask are stored) e.g.:
../SAR_SM/MASK/...
DATAPATH
(where data are stored) e.g.:
/Volumes/.../SAR/CSL
=> INPUTDATA is
DATAPATH/SAT/TRK/
CROPDIR
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
=> OUTPUTDATA is
RESAMPDATAPATH/SAT/
TRK/SMCROPDIR
MASSPROCESSPATH =
from ParametersFile.txt
MASSPROCESSPATHLONG
=
MASSPROCESSPATH/SAT/
TRK/
SMCROPDIR_ZOOM_ML
for all PAIRS in Pairs_to_process_RunDate_RandomNr.txt (Continue)
If S1 StripMap
YES: rename MAS as (Super)mas-name
ManageGeocoded
Test MASSPROCESSPATHLONGGeocoded/Ampli/MASNAME.hdr exist
YES: skip geocoding MAS ampli
Test MASSPROCESSPATHLONGGeocoded/Ampli/SLVNAME.hdr exist
YES: skip geocoding SLV ampli
Test SKIPUW = SKIPyes
YES: skip geocoding unwrapped phase
UTM
Test projection
LatLong
Not implemented yet in scripts => UTM
GeocUTM
Test pixel re-size method
Auto :
geocoded pix closest (upper) multiple of 10 of ML original pix.
If gets holes, increase interpol radius
Closest (or default) :
get geocoded pix as close as possible from original ML pix.
If gets holes, increase interpol radius
Forced : (for MSBAS !!):
size and crop imposed from Parameters.
If gets holes, increase interpol radius
Update geoProjectionParameters.txt with xMin, xMax, yMin, yMax
Update geoProjectionParameters.txt with :
- file naming (UTM_PIXSIZExPIXSIZE)
- East and North sampling
- wich files to geocode
- resampling method and parameters
Test UnWrap method
CIS
Use mask generated at Unwrap for masking borders
Test interpol RADIUS method
Force Radius
CIS
Force distance to nearest neighbour with value from Parameters (RADIUSMETHD)
Keep defaults: CIS takes 2 times the distance to nearest neighbour:
geoProjection -rk
(i.e. in GIS format (-r) and with parameters from current working dir rather than SM-MAS (-k))
Test if interpolation
BEFORE or NO (or if skipped UnWrapping)
AFTER or BOTH
fillGapsInImage
(interpolates also flattened if applicable)
PlotGeoc
Make figures (if option selected)
GetSatOrbDetails
Get infos :
HEADINGDIR: Ascending or Descending
LOOK: incid. angle at median slt range
HEADING: azimuth heading angle
BP and BT : perp. and temp. baselines
HA : altitude of ambiguity
RenameAllProducts
Rename all geocoded products with infos
Create MASSPROCESSPATHLONG/Geocoded and subdirs for each product
Create MASSPROCESSPATHLONG/GeocodedRasters and subdirs for each product
cd RUNDIR/i12/GeoProjection
MoveGeocRename
Move MASNAME.POLMAS.mod in MASSPROCESSPATHLONG/Geocoded/Ampli if it des not exist yet
Move SLVNAME.POLMAS.mod in MASSPROCESSPATHLONG/Geocoded/Ampli if it des not exist yet
Move coherence in MASSPROCESSPATHLONG/Geocoded/Coh
Move residuallnterferogram in MASSPROCESSPATHLONG/Geocoded/InterfResid
Move residual Interferogram Filtered in MASSPROCESSPATHLONG/Geocoded/InterfFilt
Move deformation Map in MASSPROCESSPATHLONG/Geocoded/Defo (if computed)
Move Unwrapped Phase in MASSPROCESSPATHLONG/Geocoded/UnwrapPhase (if computed)
Move deformation Map flatten in MASSPROCESSPATHLONG/Geocoded/DefoDetrend (if computed)
Move deformation Map interpolated in MASSPROCESSPATHLONG/Geocoded/DefoInterpol (if computed)
Move deformation Map interpolated flatten in MASSPROCESSPATHLONG/Geocoded/DefoInterpolDetrend (if computed)
Move deformation Map interpolated interpolated in MASSPROCESSPATHLONG/Geocoded/DefoInterpolx2 (if computed)
Move deformation Map interpolated flatten interpolatedin MASSPROCESSPATHLONG/Geocoded/DefoInterpolx2Detrend (if computed)
And copy corresponding rasters in MASSPROCESSPATHLONG/GeocodedRasters and subdirs
cd MAINRUNDIR
RUNDIR=MAINRUNDIR
Dump script, FUNCTIONS and Pairs lists in log file
Clean Pair lists
RUNDIR and OUTPUTDATA are on the same Hard disk
No : copy results to output data, check difference a
Yes : move results to OUTPUTDATA
check if cp source = target
No : warning and do not clean MAINRUNDIR. Try rsync
Yes : clean MAINRUNDIR
STOP and say it
Speak out end of processing
NOTES:
1) Some names are shorten here for the sake of clarity:
SAT is SATDIR in scripts
TRK is TRKDIR in scripts
2) To Do :
- allow processing in Lat Long
SuperMaster_MassProc_FlowChart_Part5_GEOCODE_LOG.graffle
V Distro 1.6.0 – Aug 11 2020