```
if ($stage <= 2) then
#
# make working directories
#
  echo ""
  echo "START FORM A STACK OF INTERFEROGRAMS"
  echo ""
  mkdir -p intf/
  mkdir -p intf_all/
#
# loop over intf.in
#
  foreach line (`awk '{print $0}' $1`)
    set ref = `echo $line | awk -F: '{print $1}'`
    set rep = `echo $line | awk -F: '{print $2}'`
    set ref_id  = `grep SC_clock_start ./raw/$ref.PRM | awk '{printf("%d",int($3))}' `
    set rep_id  = `grep SC_clock_start ./raw/$rep.PRM | awk '{printf("%d",int($3))}' `

    echo ""
    echo "INTF.CSH, FILTER.CSH - START"
    cd intf
    mkdir $ref_id"_"$rep_id
    cd $ref_id"_"$rep_id
    ln -s ../../raw/$ref.LED .
    ln -s ../../raw/$rep.LED .
    ln -s ../../raw/$ref.SLC .
    ln -s ../../raw/$rep.SLC .
    cp ../../raw/$ref.PRM .
    cp ../../raw/$rep.PRM .

    if ($region_cut != "") then
      echo "Cutting SLC image to $region_cut"
cut_slc $ref.PRM junk1 $region_cut
      cut_slc $rep.PRM junk2 $region_cut
      mv junk1.PRM $ref.PRM
      mv junk2.PRM $rep.PRM
      mv junk1.SLC $ref.SLC
      mv junk2.SLC $rep.SLC
    endif

    if($topo_phase == 1) then
      if($shift_topo == 1) then
        ln -s ../../topo/topo_shift.grd .
        intf.csh $ref.PRM $rep.PRM -topo topo_shift.grd
```

```
      else
        ln -s ../../topo/topo_ra.grd .
        intf.csh $ref.PRM $rep.PRM -topo topo_ra.grd
      endif
    else
      intf.csh $ref.PRM $rep.PRM
    endif
    filter.csh $ref.PRM $rep.PRM $filter $dec $range_dec $azimuth_dec
    echo "INTF.CSH, FILTER.CSH - END"

#
# unwrapping
#

    if ($threshold_snaphu != 0 ) then
      if ($switch_land == 1) then
        if ($region_cut == "") then
          set region_cut = `gmt grdinfo phase.grd -I- | cut -c3-20`
        endif
        cd ../../topo
        if (! -f landmask_ra.grd) then
          landmask.csh $region_cut
        endif
        cd ../intf
        cd $ref_id"_"$rep_id
        ln -s ../../topo/landmask_ra.grd .
      endif

      echo ""
      echo "SNAPHU.CSH - START"
      echo "threshold_snaphu: $threshold_snaphu"
      if ($near_interp == 1) then
        snaphu_interp.csh $threshold_snaphu $defomax $region_cut
else
        snaphu.csh $threshold_snaphu $defomax $region_cut
      endif
      echo "SNAPHU.CSH - END"
    else
      echo ""
      echo "SKIP UNWRAP PHASE"
    endif
#
# geocoding
#
    echo ""
```

```
    echo "GEOCODE.CSH - START"
    if ($topo_phase == 1 && $threshold_geocode != 0) then
      if (-f raln.grd) rm raln.grd
      if (-f ralt.grd) rm ralt.grd
      rm trans.dat
      ln -s  ../../topo/trans.dat .
      echo "threshold_geocode: $threshold_geocode"
      geocode.csh $threshold_geocode
    else if($topo_phase == 1 && $threshold_geocode == 0) then
      echo "SKIP GEOCODING"
    else
      echo "topo_ra is needed to geocode"
      exit 1
    endif

  cd ../..
  if(-f intf_all/$ref_id"_"$rep_id) rm -rf intf_all/$ref_id"_"$rep_id
  mv intf/$ref_id"_"$rep_id intf_all/$ref_id"_"$rep_id

  end
endif

echo ""
echo "END STACK OF TOPS INTERFEROGRAMS"
echo ""
```

Lampiran H *Script* create_merge_input.csh

```
#!/bin/csh -f

# input is list of files in intf_all

if ($#argv != 3) then
  echo ""
  echo "Usage: create_merge_input.csh intf_list path mode"
  echo ""
  echo "    Used to create inputlist for merge_batch.csh "
  echo "    input intf_list is the folder names in F?/intf_all"
  echo "    mode 0 is merging all 3 subswaths, mode 1 is for F1/F2"
  echo "    mode 2 is for F2/F3"
  echo ""
  echo "    Example: create_merge_input.csh intflist .. 0"
```

```
  echo ""
  exit 1
endif

set mode = $3
set dir = $2

foreach line (`awk '{print $0}' $1`)
  if ($mode == 0 || $mode == 1) then
    ls $dir/F1/intf_all/$line/*F1.PRM > tmp
    set pth = `awk NR==1'{print $1}' tmp | awk -F'/' '{for(i=1;i<NF;i++) printf("%s/",$i)}'`
    set f1 = `awk NR==1'{print $1}' tmp | awk -F'/' '{print $NF}'`
    set f2 = `awk NR==2'{print $1}' tmp | awk -F'/' '{print $NF}'`
    set txt1 = `echo $pth":"$f1":"$f2`
  endif

  ls $dir/F2/intf_all/$line/*F2.PRM > tmp
  set pth = `awk NR==1'{print $1}' tmp | awk -F'/' '{for(i=1;i<NF;i++) printf("%s/",$i)}'`
  set f1 = `awk NR==1'{print $1}' tmp | awk -F'/' '{print $NF}'`
  set f2 = `awk NR==2'{print $1}' tmp | awk -F'/' '{print $NF}'`
  set txt2 = `echo $pth":"$f1":"$f2`

  if ($mode == 0 || $mode == 2) then
    ls $dir/F3/intf_all/$line/*F3.PRM > tmp
    set pth = `awk NR==1'{print $1}' tmp | awk -F'/' '{for(i=1;i<NF;i++) printf("%s/",$i)}'`
    set f1 = `awk NR==1'{print $1}' tmp | awk -F'/' '{print $NF}'`
    set f2 = `awk NR==2'{print $1}' tmp | awk -F'/' '{print $NF}'`
    set txt3 = `echo $pth":"$f1":"$f2`
  endif

  if ($mode == 0) then
    echo $txt1","$txt2","$txt3
  endif
  if ($mode == 1) then
   echo $txt1","$txt2
  endif
  if ($mode == 2) then
    echo $txt2","$txt3
  endif
end
```