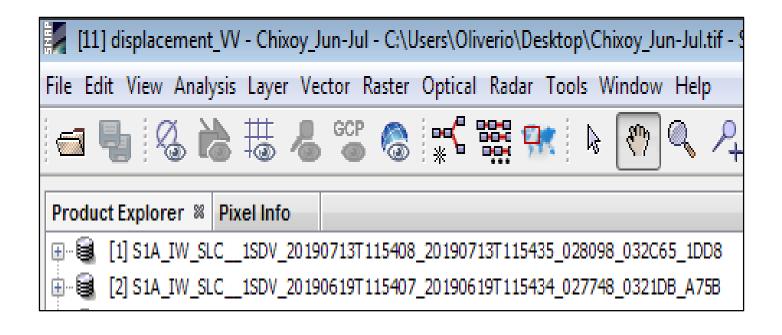
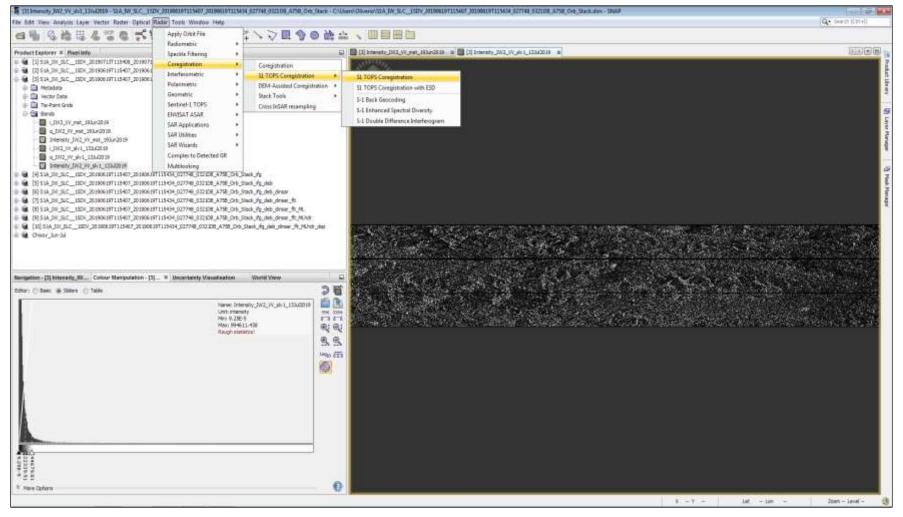
Creation of interferogram

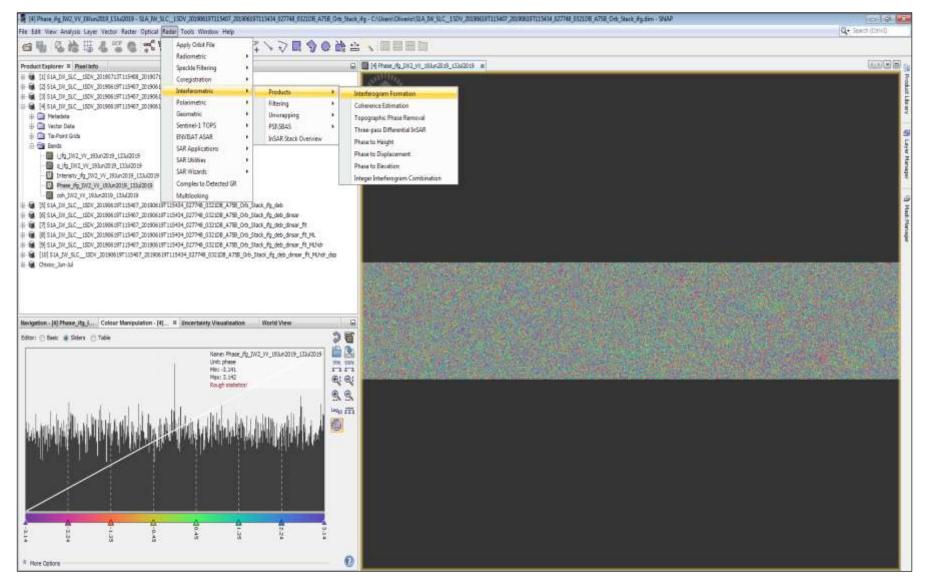
Step 1. Open data.



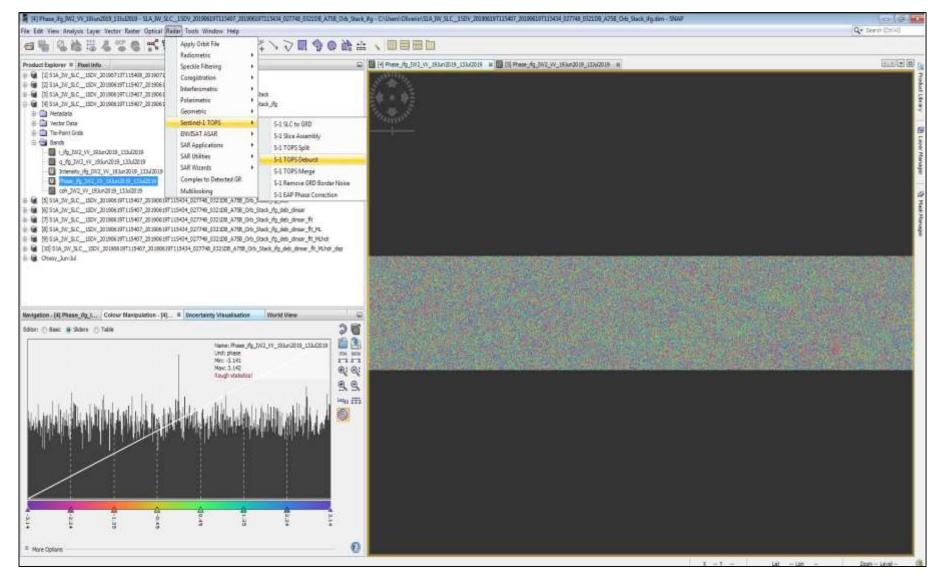
Step 2. Corregistration



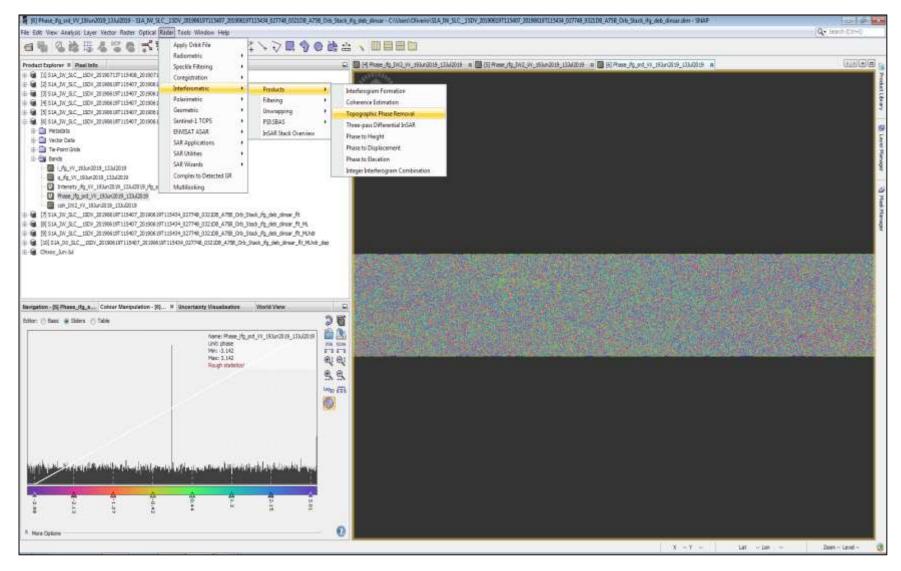
Step 3. Interferogram formation



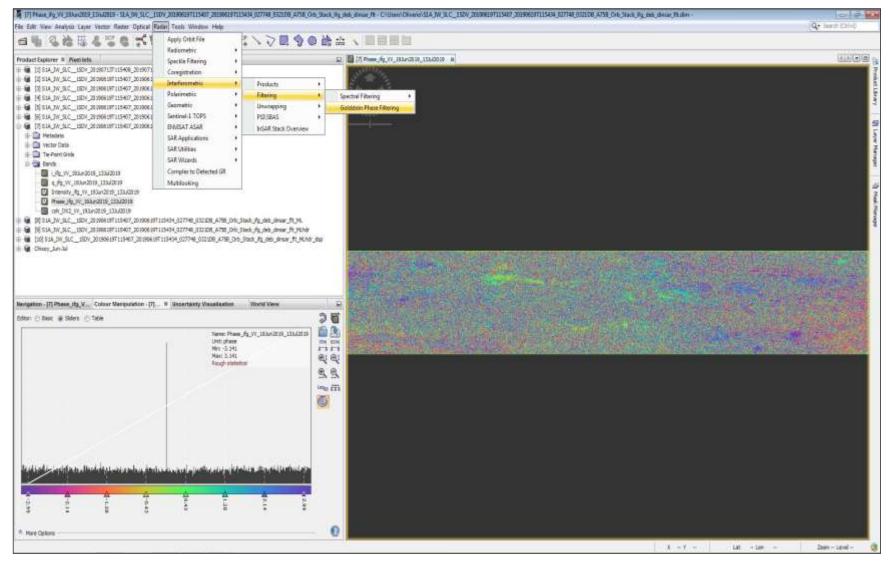
Step 4. Tops derbust



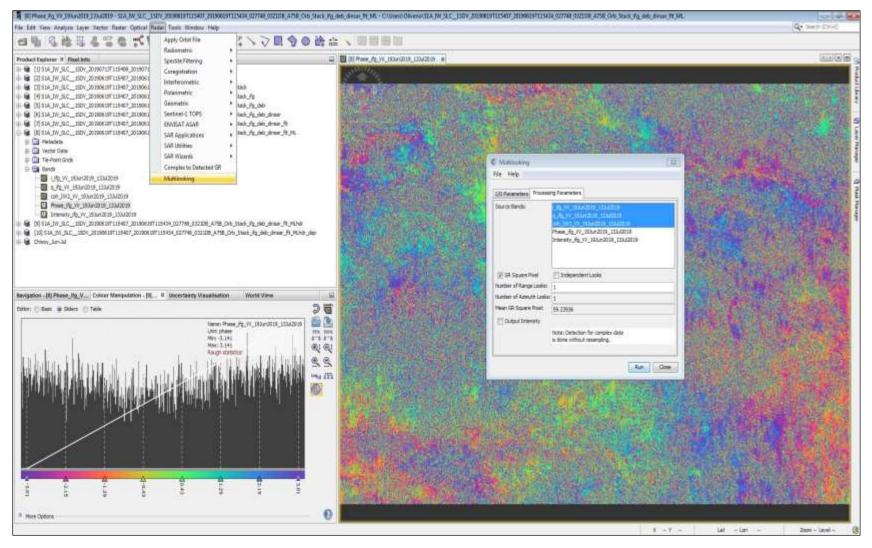
Step 5. Topographic phase removal



Step 6. Goldstein phase filtering



Step 7. Multilooking



Step 8. Snaphu export

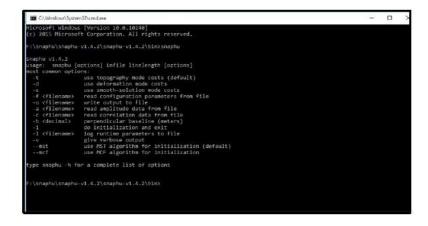
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Step 9. Unwrapping phase with SNAPHU



In decompress the Snaphu file on the local disk, and then open the bin folder, once opened, the files exported from the Multilooking are pasted.

Once all the files are located in the bin folder, the CMD command is applied on the path to use the SNAPHU file



Subsequently, the snaphu.conf file is opened and the paragraph is copied as the next step to develop the phase.

I CONFIG FOR SN	APHD
+	
# Created by SN	AP software on: 22:54:37 25/02/2018
1	
# Command to ca	11 snaphu:
+	
# snaphu	-f snaphu.conf Phase_ifg VV_300ct2017_
23Nov2017.snaph	
***********	******
# Unwrapping pa	raneters #
*********	********
STATCOSTNODE	DEFO
INITMETHOD	HCF
VERBOSE TRU	E.

# Input files #	

CORRFILE	coh_IM2_VV_300ct2017_23Nov2017.snaphu.img
*********	*
# Output files	1
***********	*
OUTFILE	UnwPhase_ifg_VV_300ct2017_23Nov2017.snaphu.img
LOGFILE	snaphu-log
************	*
# File formats	\$
**********	*
INFILEFORMAT	FLOAT DATA
CORRFILEFORMAT	FLOAT DATA
OUTFILEFORMAT	FLOAT DATA

The result of the snaphu process generates two files, the first with terminal hdr and the second as img.

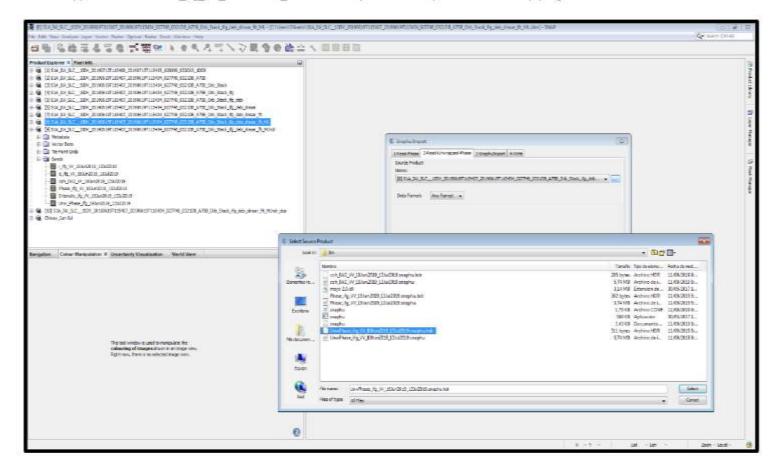
coh_IW2_VV_19Jun2019_13Jul2019.snaph	11/09/2019 9:32	Archivo HDR	1 KB
🙆 coh_IW2_VV_19Jun2019_13Jul2019.snaphu	11/09/2019 9:32	Archivo de image	5.884 KB
S msys-2.0.dll	30/05/2017 10:21	Extensión de la apl	3.226 KB
Phase_ifg_VV_19Jun2019_13Jul2019.snap	11/09/2019 9:32	Archivo HDR	1 KB
Phase_ifg_VV_19Jun2019_13Jul2019.snaphu	11/09/2019 9:32	Archivo de image	5.884 KB
🗐 snaphu	11/09/2019 9:32	Archivo CONF	2 KB
🗾 snaphu	30/05/2017 10:19	Aplicación	370 KB
📄 snaphu	11/09/2019 9:39	Documento de tex	4 KB
UnwPhase_ifg_VV_19Jun2019_13Jul2019.s	11/09/2019 9:32	Archivo HDR	1 KB
UnwPhase_ifg_VV_19Jun2019_13Jul2019.s	11/09/2019 9:41	Archivo de image	5.884 KB

Step 10.

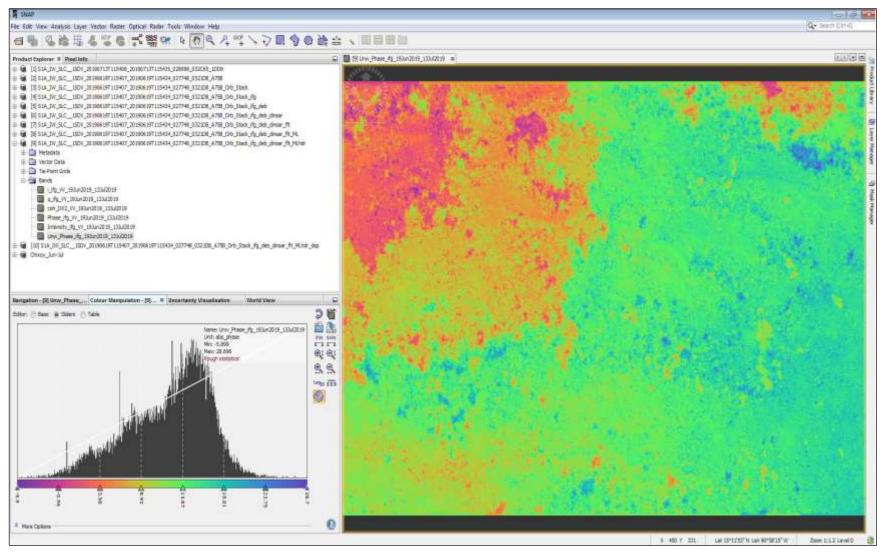
In the following link the following are placed: to.

a. Read phase: the exported ML file.

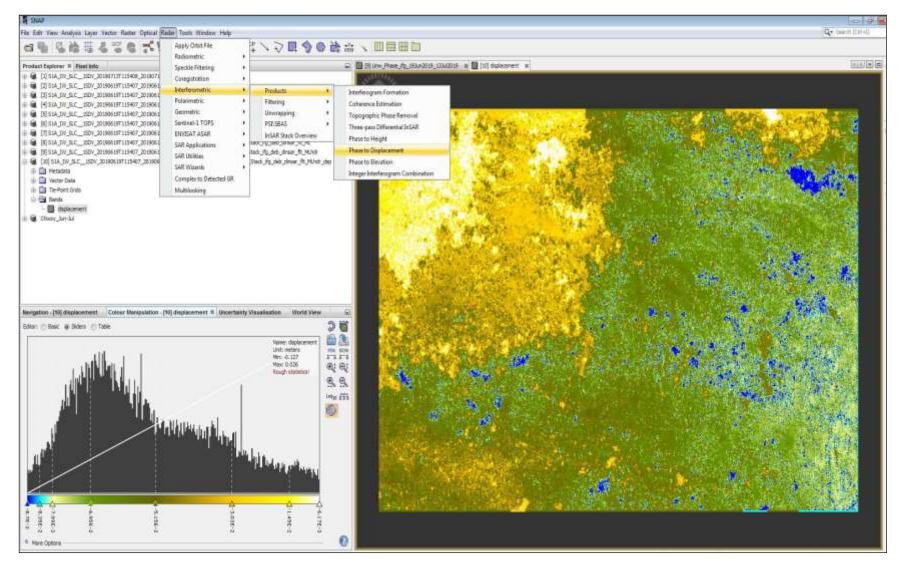
b. In Read Unwrapped: the UnwPhase ifg VV 19Jun2019 13Jul2019.snaphu.hdr file is placed and the snap program is run.

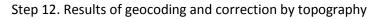


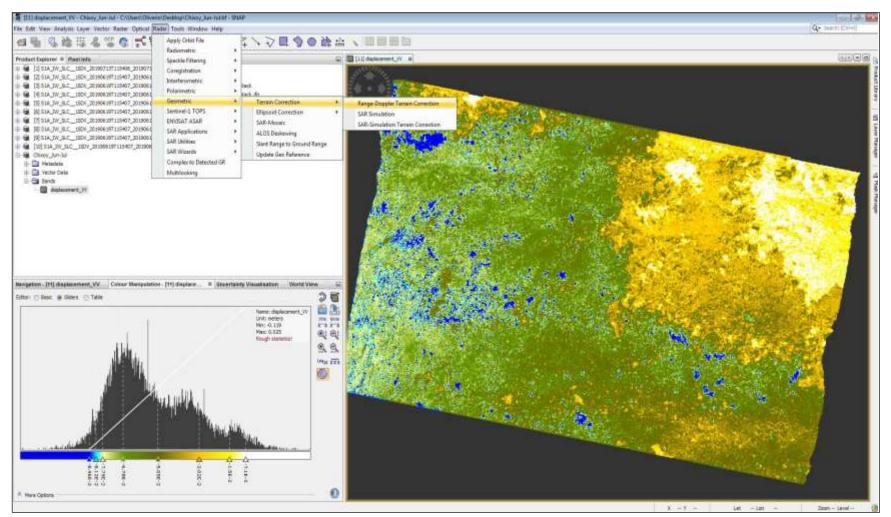
Step 10.1 Processing this you get:



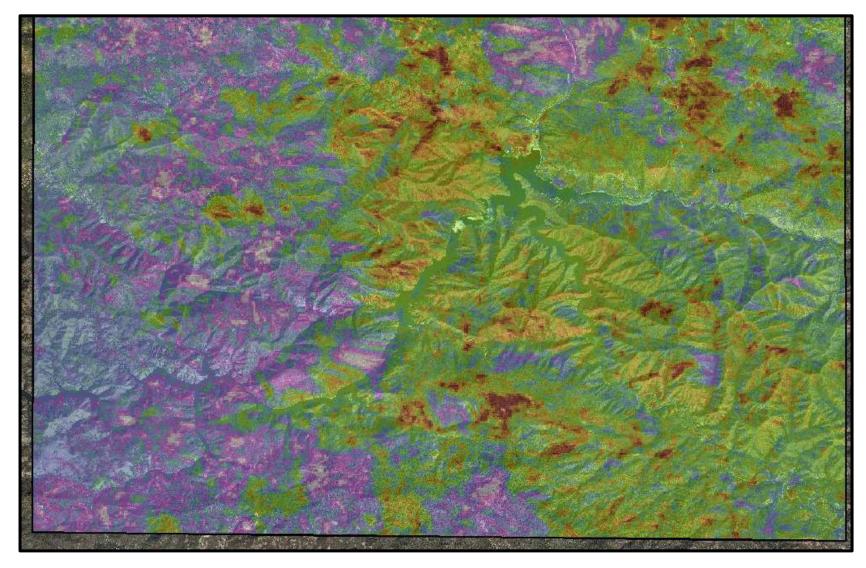
Step 11. Phase conversion in displacement







In Processing parameters, select source bands and output bands.



Step 13. The file obtained is exported as a tiff for processing in QGIS 3.10

From the steps applied I ask for your opinion and the answers according to your experience for the following questions:

- 1. If the water does not discriminate in the interferogram. How do you eliminate the effect of coherence in slow waters?
- 2. If the band can identify areas identified by the potential for water erosion and wind erosion in areas without vegetation cover
- 3. And if the interval time of 1 year can be taken as a reference for surface deformation or subsidence?

Regards,

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