

specklekillerCC

InSAR coherence magnitude filter

Usage

Packages required:

Required packages are included in the supplied environment `filter.yml`

Input parameters:

dir: input data set directory

file: input data set (must be float32 ENVI 4 data type)

wavdir: directory for wavelet data representation

outfile: filetered data set

dp: number of pixel in the input datat set

dl: number of lines in the input data set

skipdwt: switch set to 1 to skip the wavelet transform step

linsw: set to one (used to perform filtering in the linear or log domain)

`specklekillerCC(dir, file, wavdir, outdir, outfile, dp, dl, skipdwt, linsw)`

Input data sets

One file (float32) holding coherence amplitude data

Some InSAR data processor generate coherence files with NaN values. These should be converted to 0.0.

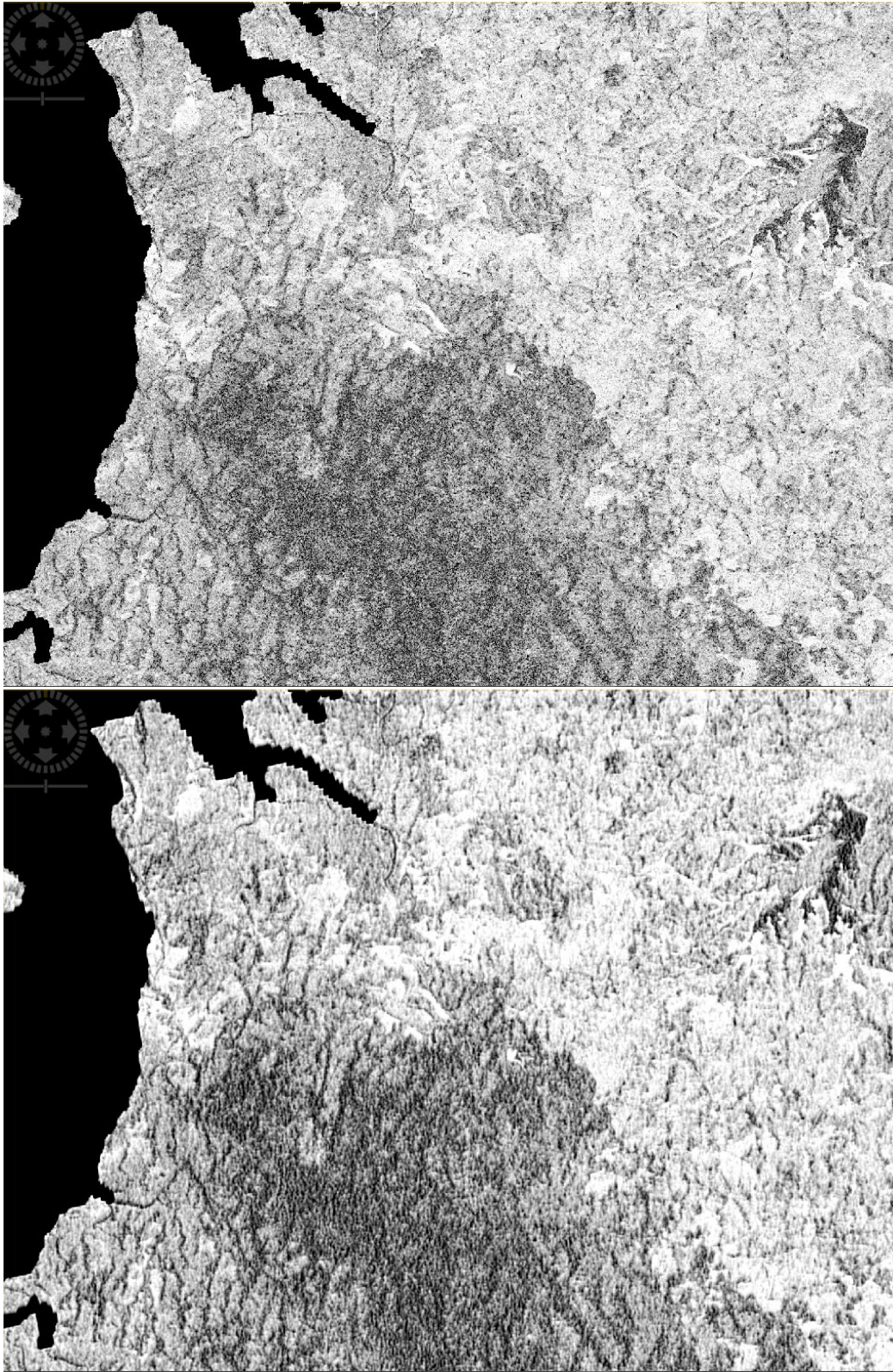
The procedure `stripanan(dir, file, outdir, outfile, dp, dl)` can be used for the purpose.

Sample call

From `specklefilterAdb` import `specklekillerCC`

```
specklekillerCC('O:/TanDEM-X/sungai/coherence', 'set1HH_cc', 'O:/TanDEM-X/sungai/coherence/wav',  
'O:/TanDEM-X/sungai/coherence', 'set1HH_cc', 3472, 6040, 0, 1)
```

Example



Tandem-X Sungai: original coherence modulus (above) and filtered coherence modulus (below)