Processing report

Eagloo

Name : 2013_2017_nuth_kaab

19 May 2022

Method of processing :

Co-registration - method : Nuth and Kääb

EAGLOO
DEM Modification Software

1 - Entry names

- Earliest DEM : 2013_NVE_WGS

- Latest DEM : 2017_DEM_NVE_resized_3

- Contour line shapefile of the biggest glacier(Use for masking) : Folgefonna1959_utm32

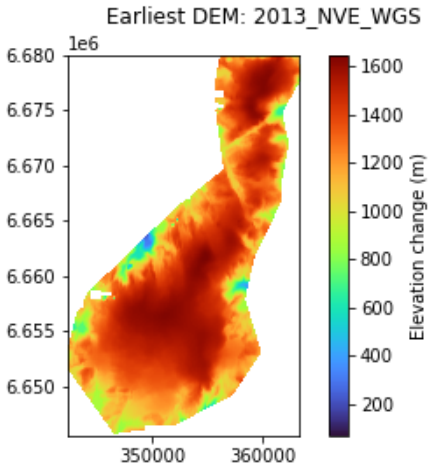
- Path where the files were saved : /home/guillaume/Eagloo/Folgefonna/test_coregistration

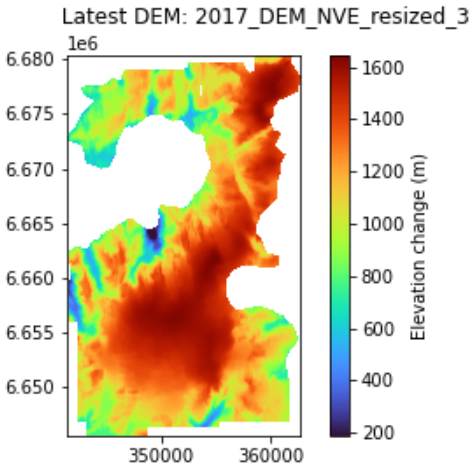
- Coordinate system : EPSG:32633

- Shapefile frame of the study area : frame_folgefonna

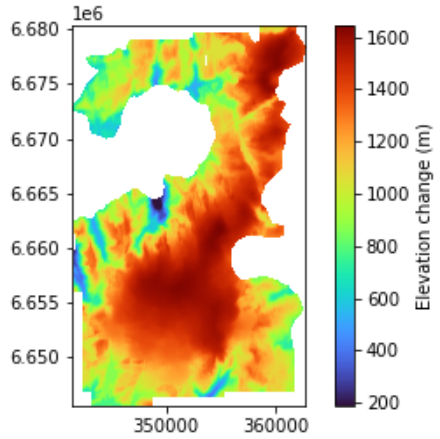
- Resolution : 10.0 m

2 - Digital Elevation Model entries





Reference DEM for the co-registration: 2017_DEM_NVE_resized_3



3 - Co-registration of the DEM: 2013_NVE_WGS

- Reference DEM for co-registration : 2017_DEM_NVE_resized_3

- Method : Nuth and Kääb

Translation (sum) :

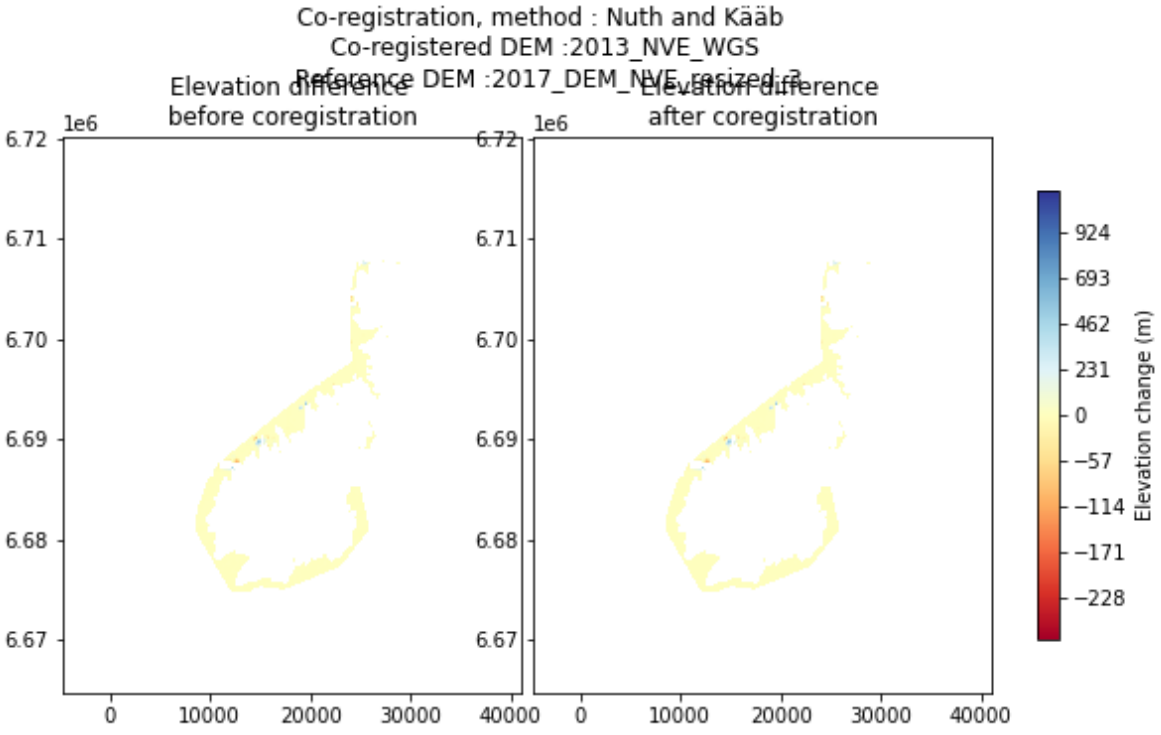
- East offset (dx) : **1.39 m**

- North offset(dy): **-0.42 m**

- Vertical offset (dz) : **0.19 m**

- Error before the co-registration(NMAD) : **1.63 m**

- Error after the co-registration(NMAD) : **1.49 m**


Co-registration, method : Nuth and Kääb
Co-registered DEM :2013_NVE_WGS
Reference DEM :2017_DEM_NVE_resized.tif
Elevation difference
before coregistration
Elevation difference
after coregistration
1e6
6.72
6.71
6.70
6.69
6.68
6.67
0
10000
20000
30000
40000
924
693
462
231
0
−57
−114
−171
−228
Elevation change (m)