Demcompare report

Jun 23, 2023

Contents

1	Image views	1
	1.1 Initial elevation (REF-SEC)	1
	1.2 Final elevation after coregistration (COREG_REF-COREG_SEC)	2
	Stats Results	2
	2.1 Classification layer: global	
	2.2 Classification layer: Slope0	2
3	Full input configuration	4

• Generated date: 23/06/23 17h33

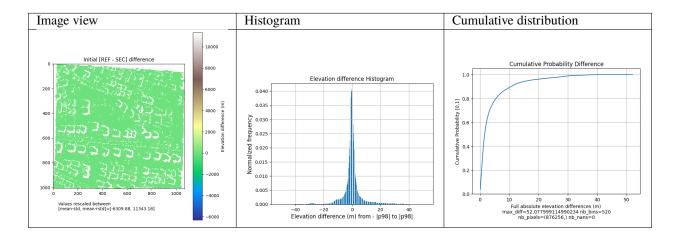
• Demcompare version: 0.5.2

• Documentation: https://demcompare.readthedocs.io/

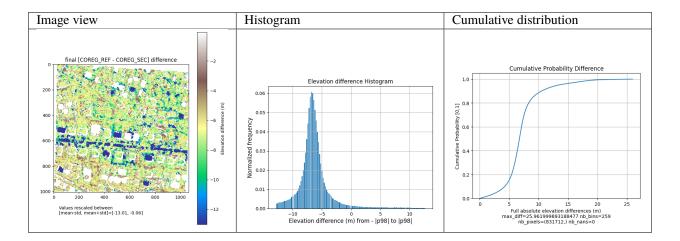
• Repository: https://github.com/CNES/demcompare

1 Image views

1.1 Initial elevation (REF-SEC)



1.2 Final elevation after coregistration (COREG_REF-COREG_SEC)



2 Stats Results

The stats metrics are organized around classification layers and modes.

Stats are generated from:

- input_ref when one input dem and statistics only
- reprojected input_ref input_sec difference when statistics only
- reprojected and coregistered **input_ref input_sec** difference with coregistration and statistics

2.1 Classification layer: global

Mode: standard

Table showing comparison metrics

Set	nbpts	per-	mean	me-	max	min	sum	per-	squared_s	ummad	rmse	std
Name		cent_valid_poi	nts	dian				centil_90				
global:[1]61021.	0080.29	-	-	12.90) -	-	8.06	50796252	.01059	7.82	3.89
			6.78	6.69		25.96	5638297.	00				

2.2 Classification layer: Slope0

Mode: standard

Table showing comparison metrics

Set	mean	me-	max	min	sum	per-	squared_	summad	rmse	std	nbpts	per-
Name		dian				centil_90)					cent_valid_poin
[0%;5%[:0) -	-	9.37	-	-	3.63	9187.03	0.78	7.67	3.11	160.00	0.01
	7.02	6.73		19.11	1094.53							
[5%;10%[:5-	-	10.79	-	-	2.59	61546.67	0.68	7.24	2.44	1224.00	0.11
	6.82	6.75		25.70	8008.12							
[10%;25%	[:10	-	12.81	-	-	2.71	1562551.	62 0.80	7.24	2.52	30884.0	02.88
	6.79	6.70		25.96	202324.1	2						
[25%;45%	[:25	-	12.87	-	-	3.95	2935363.	50.02	7.35	2.76	56083.0	05.23
	6.82	6.67		25.96	370023.0	6						
[45%;inf[:	45	-	12.90	-	-	7.28	12780142	2. Q 020	7.66	4.05	222285	0 0 0.73
	6.51	6.60		25.96	1416136	62						

Mode: intersection

Table showing comparison metrics

Set	mean	me-	max	min	sum	per-	squared_	summad	rmse	std	nbpts	per-
Name		dian				centil_90						cent_valid_poin
[0%;5%[:0) -	-	9.37	-	-	3.63	9187.03	0.78	7.67	3.11	160.00	0.01
	7.02	6.73		19.11	1094.53							
[5%;10%[:5-	-	10.79	١ -	-	2.59	61546.67	0.68	7.24	2.44	1224.00	0.11
	6.82	6.75		25.70	8008.12							
[10%;25%	[:10	-	12.81	-	-	2.71	1562551	.6 D .80	7.24	2.52	30884.0	02.88
	6.79	6.70		25.96	202324.1	2						
[25%;45%	[:25	-	12.87	' -	-	3.95	2935363	.50.02	7.35	2.76	56083.0	05.23
	6.82	6.67		25.96	370023.0	6						
[45%;inf[:	45	-	12.90) _	-	7.28	1278014	2. Q 020	7.66	4.05	222285	0 0 0.73
	6.51	6.60		25.96	1416136	62						

Mode: exclusion

Table showing comparison metrics

Set	mean	me-	max	min	sum	per-	squared_	summad	rmse	std	nbpts	per-
Name		dian				centil_90)					cent_valid_poin
[0%;5%[:0) -	-	11.96	i -	=	8.24	591026.7	51.22	8.41	3.70	8669.00	0.81
	7.55	6.90		25.89	63142.47							
[5%;10%[:5-	-	12.29) -	-	7.75	1610734	.50.17	8.35	3.57	23948.0	02.23
	7.55	6.91		25.87	174409.7	8						
[10%;25%	[:10	-	12.88	-	-	8.19	7414507	.00.34	8.49	3.72	106965	09.97
	7.63	6.94		25.95	785172.0	6						
[25%;45%	[:25	-	12.90) -	-	7.51	9864000	.00.40	8.23	3.66	150482	004.03
	7.37	6.87		25.96	1072950	88						
[45%;inf[:	45	-	12.90) -	-	8.74	9914919	.00.59	7.37	3.85	190867	007.80
	6.29	6.47		25.96	1146740	38						

3 Full input configuration

```
"output_dir": "/home/duboise/work/src/discover-cnes-3d-tools/data_turkey/outputs_

    demcompare_diff_dsm",
"input_ref": {
  "path": "/home/duboise/work/src/discover-cnes-3d-tools/data_turkey/outputs_cars_post_
→event/cars_dsm_post_event.tif",
  "zunit": "m"
},
"input_sec": {
  "path": "/home/duboise/work/src/discover-cnes-3d-tools/data_turkey/outputs_cars_pre_
→event/cars_dsm_pre_event.tif",
  "zunit": "m",
  "geoid_georef": "True",
  "nodata": 0
},
"coregistration": {
  "method_name": "nuth_kaab_internal",
  "number_of_iterations": 6,
  "estimated_initial_shift_x": 0,
  "estimated_initial_shift_y": 0,
  "output_dir": "/home/duboise/work/src/discover-cnes-3d-tools/data_turkey/outputs_

→demcompare_diff_dsm",
  "sampling_source": "sec",
  "save_optional_outputs": false
},
"statistics": {
  "classification_layers": {
    "Slope0": {
      "type": "slope",
      "ranges": [
        0,
        5,
        10.
        25,
        45
      1
   }
  "remove_outliers": "True",
  "output_dir": "/home/duboise/work/src/discover-cnes-3d-tools/data_turkey/outputs_
→demcompare_diff_dsm"
"report": "sphinx",
"otd": "default_OTD"
```