

Demcompare report

Jun 23, 2023

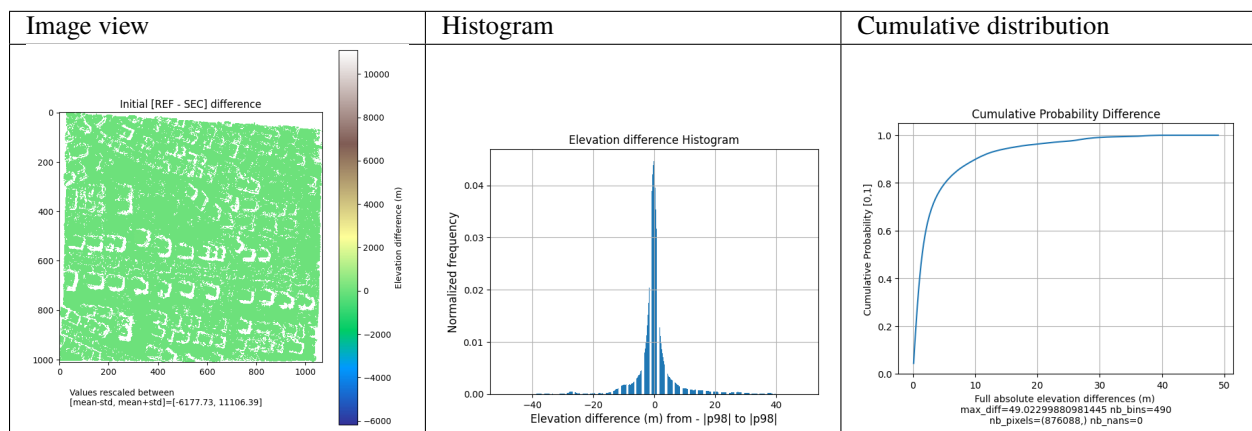
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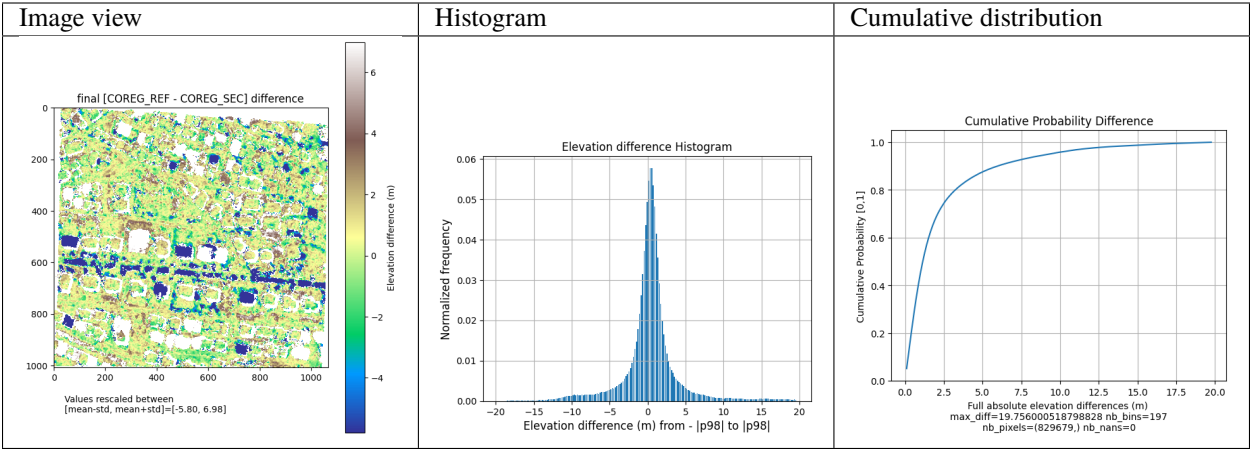
- *Generated date:* 23/06/23 18h04
- *Demcompare version:* 0.5.2
- *Documentation:* <https://demcompare.readthedocs.io/>
- *Repository:* <https://github.com/CNES/demcompare>

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 Name	nbpts	per-cent_valid_points	mean	me-dian	max	min	sum	per-centil_90	squared_summad	rmse	std
global:	11858954	0.0002	0.38	0.38	19.76	-18.57	311684.53	91	12267602.00	58	3.85

2.2 Classification layer: Slope0

Mode: standard

Table showing comparison metrics

Set Name	mean	median	max	min	sum	percentil_90	squared_summad	rmse	std	nbpts	percent_valid_points	
[0%;5%[:0 - 0.09		0.41	3.35	- 11.03	- 12.70	3.01	809.71	0.71	2.35	2.35	154.00	0.01
[5%;10%[:50.20		0.41	17.96	- 16.75	236.27	2.94	7348.24	0.77	2.48	2.47	1233.00	0.11
[10%;25%[:100.00		0.40	19.53	- 17.82	9115.88	2.64	170525.20	0.81	2.37	2.35	31363.00	0.292
[25%;45%[:257		0.38	19.74	- 18.47	14573.07	3.85	389947.22	1.03	2.68	2.67	56127.00	0.523
[45%;inf[:450.71		0.51	19.76	- 18.57	145952.77	2.29	3503338.50	2.26	4.13	4.06	210191.00	0.958

Mode: intersection

Table showing comparison metrics

Set Name	mean	me-dian	max	min	sum	per-centil_90	squared_summad	rmse	std	nbpts	per-cent_valid_points	
[0%;5%[:0 - 0.09		0.41	3.35	- 11.03	- 12.70	3.01	809.71	0.71	2.35	2.35	154.00	0.01
[5%;10%[:50.20		0.41	17.96	- 16.75	236.27	2.94	7348.24	0.77	2.48	2.47	1233.00	0.11
[10%;25%[:100.00		0.40	19.53	- 17.82	9115.88	2.64	170525.20	0.81	2.37	2.35	31363.00	0.292
[25%;45%[:257		0.38	19.74	- 18.47	14573.07	3.85	389947.22	1.03	2.68	2.67	56127.00	0.523
[45%;inf[:450.71		0.51	19.76	- 18.57	145952.77	2.29	3503338.50	2.26	4.13	4.06	210191.00	0.958

Mode: exclusion

Table showing comparison metrics

Set Name	mean	me- dian	max	min	sum	per- centil_90	squared_summad	rmse	std	nbpts	per- cent_valid_points	
[0%;5%[:0 - 0.40		0.18	19.43	- 18.56	- 3527.99	6.96	95199.14	1.15	3.29	3.27	9094.00	0.85
[5%;10%[:5- 0.46		0.18	19.63	- 18.54	- 10994.08	7.52	288831.84	1.19	3.46	3.43	25024.00	0.233
[10%;25%[:10 0.45		0.14	19.75	- 18.56	- 47958.51	7.71	1343027.88	1.30	3.55	3.52	111011.00	0.034
[25%;45%[:25 0.21		0.20	19.75	- 18.57	- 30418.94	7.27	1842645.25	1.36	3.53	3.53	152730.00	0.423
[45%;inf[:450.86		0.62	19.75	- 18.56	- 158629.38	8.45	2822020.00	1.57	3.91	3.82	192706.00	0.795

3 Full input configuration

```
{
"output_dir": "/home/duboise/work/src/discover-cnes-3d-tools/data_turkey/outputs_
↳demcompare_diff_dhm",
"input_ref": {
  "path": "/home/duboise/work/src/discover-cnes-3d-tools/data_turkey/outputs_bulldozer_
↳post_event/DHM.tif",
  "zunit": "m"
},
"input_sec": {
  "path": "/home/duboise/work/src/discover-cnes-3d-tools/data_turkey/outputs_bulldozer_
↳pre_event/DHM.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_dhm",
  "sampling_source": "sec",
  "save_optional_outputs": false
},
"statistics": {
  "classification_layers": {
    "Slope0": {
      "type": "slope",
      "ranges": [
        0,
        5,
        10,
        25,
        45
      ]
    }
  }
},
"remove_outliers": "True",
"output_dir": "/home/duboise/work/src/discover-cnes-3d-tools/data_turkey/outputs_
↳demcompare_diff_dhm"
},
"report": "sphinx",
"otd": "default_OTD"
}
```