

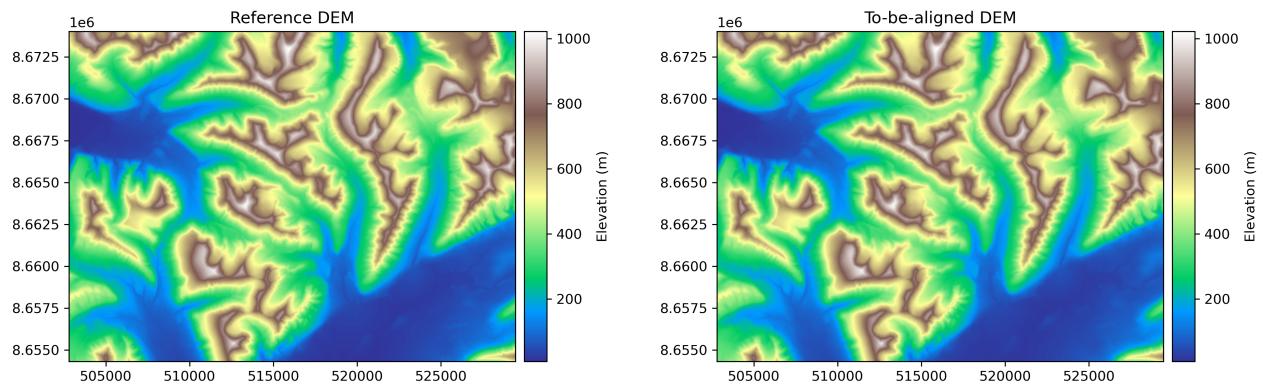
Accuracy assessment report — xDEM

xDEM version: 0.1.7a4.dev47

Date: 07/01/2026 19:18:06

Computing time: 4.39 seconds

Elevation datasets



Information about inputs

Information	Value
reference_elev	{'path_to_elev': '../../.xdem/example_data/Longyearbyen/data/DEM_2009_ref.tif', 'from_vcrs': None, 'to_vcrs': None, 'downsample': 1}
to_be_aligned_elev	{'path_to_elev': '../../.xdem/example_data/Longyearbyen/data/DEM_1990.tif', 'path_to_mask': '../../.xdem/example_data/Longyearbyen/data/glacier_mask/CryoClim_GAO_SJ_1990.shp', 'from_vcrs': None, 'to_vcrs': None, 'downsample': 1}

Coregistration user configuration

Information	Value
step_one	{'method': 'LZD', 'extra_information': {'subsample': 10000}}
sampling_grid	reference_elev
process	True

LZD inputs

Information Value

```
random      {'subsample': 10000, 'random_state': 42}
fitorbin    {'fit_minimizer': , 'fit_loss_func': 'linear'}
iterative   {'max_iterations': 200, 'tolerance': 0.01}
specific    {}
affine      {'only_translation': False}
```

LZD outputs

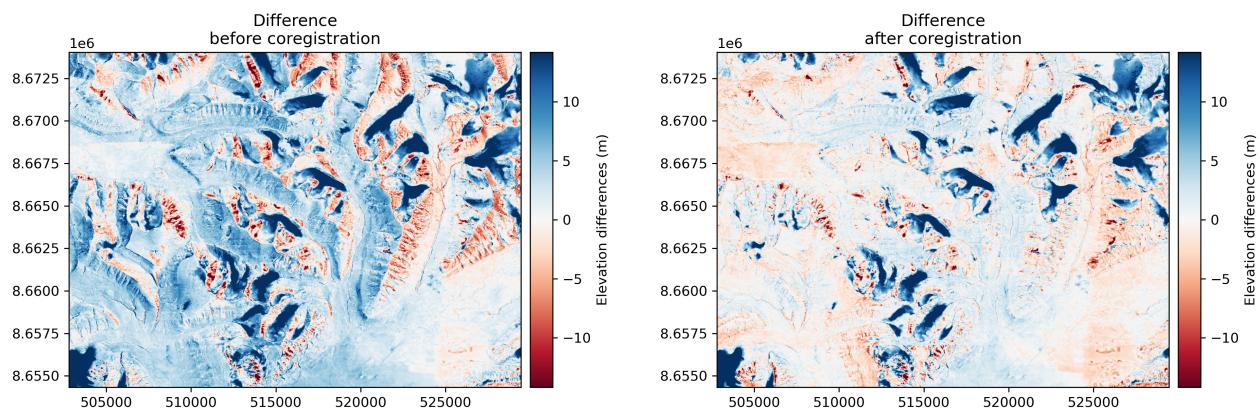
Information Value

```
{'centroid': (515650.83, 8663888.17, 353.11), 'matrix':
array([[ 9.99999985e-01, 1.17578419e-04, -1.30099078e-04,
       1.02548967e+01], [-1.17594385e-04, 9.99999986e-01, -1.22719549e-04,
       affine     1.90590312e+00], [ 1.30084647e-04, 1.22734846e-04, 9.99999984e-01,
       -1.93544013e+00], [ 0.00000000e+00, 0.00000000e+00,
       0.00000000e+00, 1.00000000e+00]]), 'shift_x': 10.25, 'shift_y': 1.91,
       'shift_z': -1.94}
random      {'subsample_final': 10000}
```

Statistics

	Data	Median	NMAD	Valid count
Aligned elevation	363.338928	291.801208	1309704	
Difference before coreg	2.766407	3.805830	1312020	
Difference after coreg	0.254444	2.403943	1309704	

Elevation differences



Differences histogram

