

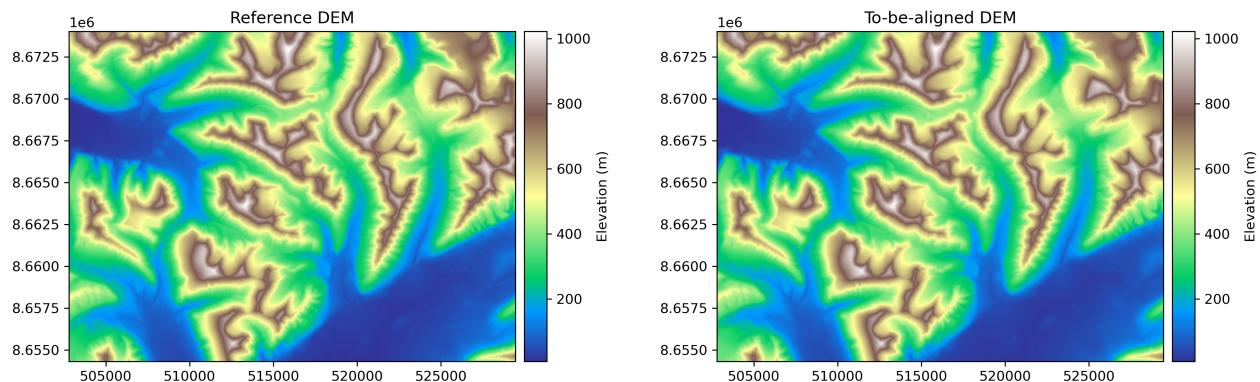
# Accuracy assessment report — xDEM

xDEM version: 0.1.7a4.dev18

Date: 27/12/2025 00:54:05

Computing time: 4.59 seconds

## Elevation datasets



## Information about inputs

Information	Value
reference_elev	{'path_to_elev': '../..//examples/data/Longyearbyen/data/DEM_2009_ref.tif', 'from_vcrs': None, 'to_vcrs': None, 'downsample': 1}
to_be_aligned_elev	{'path_to_elev': '../..//examples/data/Longyearbyen/data/DEM_1990.tif', 'path_to_mask': '../..//examples/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': None}
fitorbin    {'fit_minimizer': , 'fit_loss_func': 'linear'}
iterative   {'max_iterations': 200, 'tolerance': 0.01}
specific    {}
affine      {'only_translation': False}
```

## LZD outputs

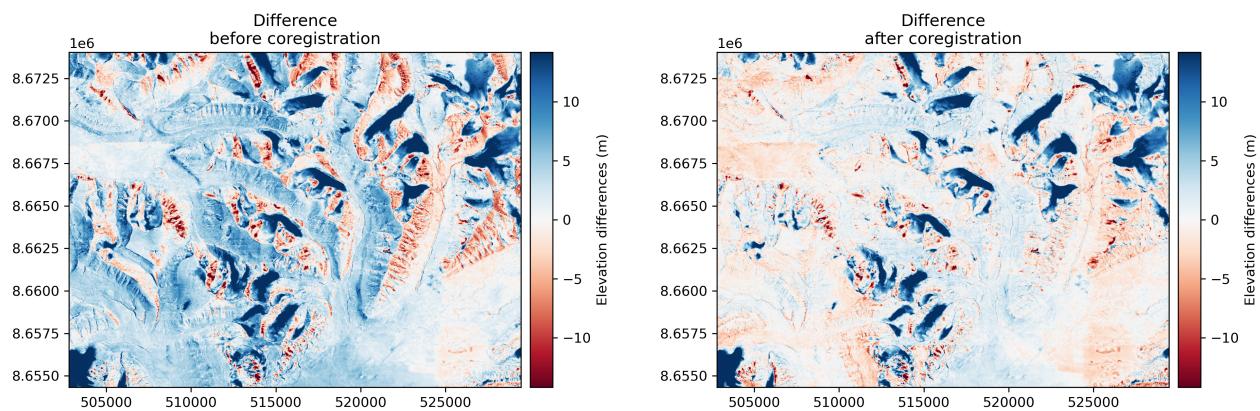
### Information Value

```
{'centroid': (515601.21, 8663868.29, 354.45), 'matrix':
array([[ 9.99999985e-01, 1.07418839e-04, -1.36262287e-04,
9.84790209e+00], [-1.07436058e-04, 9.99999986e-01, -1.26370153e-04,
affine     2.28796149e+00], [ 1.36248711e-04, 1.26384791e-04, 9.99999983e-01,
-1.94178889e+00], [ 0.00000000e+00, 0.00000000e+00,
0.00000000e+00, 1.00000000e+00]]), 'shift_x': 9.85, 'shift_y': 2.29,
'shift_z': -1.94}
random      {'subsample_final': 10000}
```

## Statistics

	Data	Median	NMAD	Valid count
Aligned elevation	363.323242	291.822540	1309704	
Difference before coreg	2.766407	3.805830	1312020	
Difference after coreg	0.255302	2.406555	1309704	

# Elevation differences



# Differences histogram

