

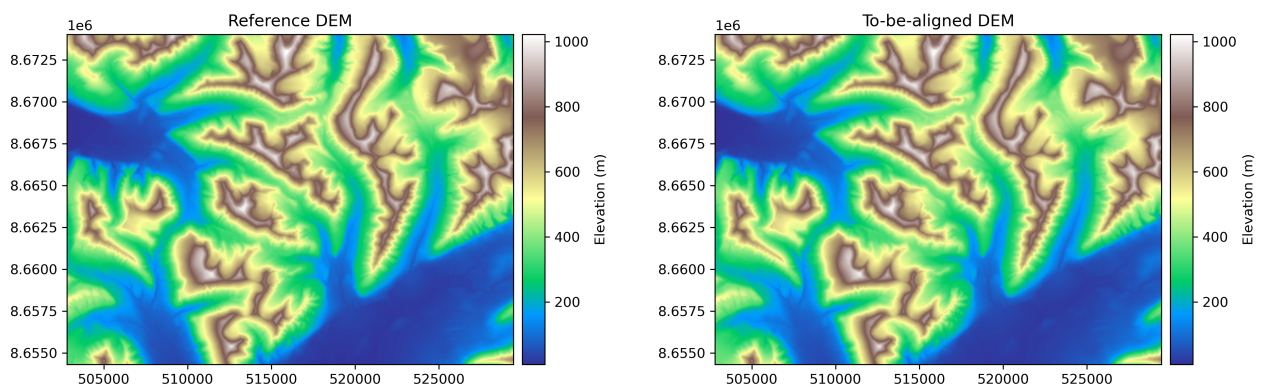
# Accuracy assessment report — xDEM

xDEM version: 0.2.3.dev0

Date: 28/01/2026 03:17:02

Computing time: 8.18 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': 'least_squares', 'fit_loss_func': 'linear'}
iterative   {'max_iterations': '200', 'tolerance': '0.01'}
specific    {}
affine      {'only_translation': 'False'}
```

## LZD outputs

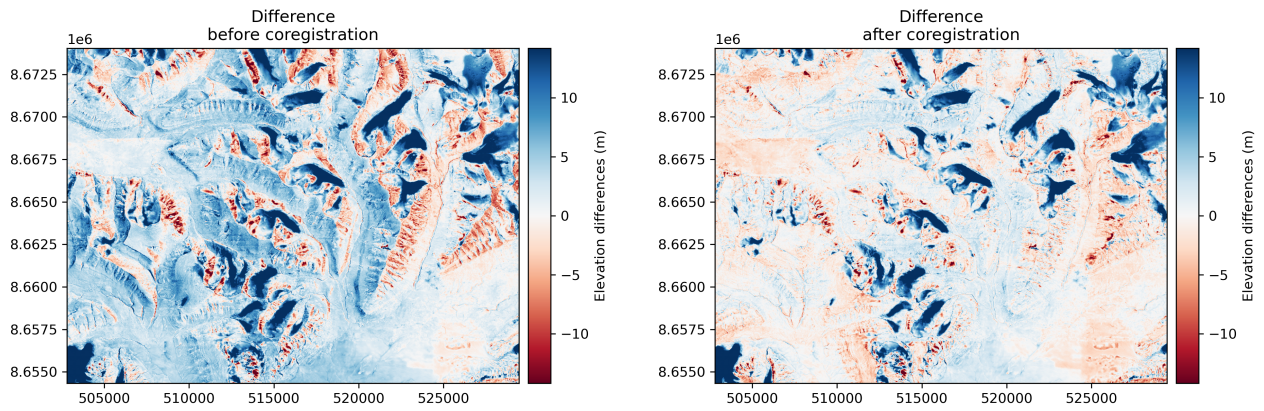
### Information Value

```
affine      {'centroid': '(515650.83, 8663888.17, 353.11)', 'matrix':
            '[[ 9.99999985e-01 1.17578419e-04 -1.30099078e-04
            1.02548967e+01]\n [-1.17594385e-04 9.99999986e-01 -1.22719549e-04
            1.90590313e+00]\n [ 1.30084647e-04 1.22734846e-04 9.99999984e-01
            -1.93544013e+00]\n [ 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

	<b>Data</b>	<b>Median</b>	<b>NMAD</b>	<b>Valid count</b>
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

