

# **ASP Report**

## **atlanta\_stereo**

Processed on: 2025-12-09 19:17:08

# **Processing Parameters**

## **Reference DEM:**

ref/ref-utm.tif

## **Bundle Adjust (0 hours and 2 minutes):**

```
bundle_adjust --threads 24 --ip-per-image 10000 --tri-weight 0.1 --
tri-robust-threshold 0.1 --camera-weight 0
10300100036D5200_P002_corr.tif 1030010003D22F00_P001_corr.tif
10300100036D5200_P002.xml 1030010003D22F00_P001.xml -o ba/run
```

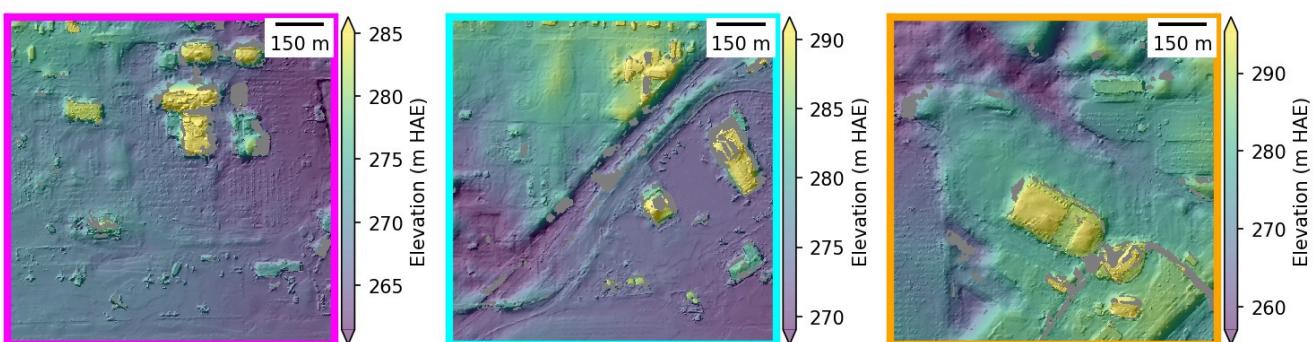
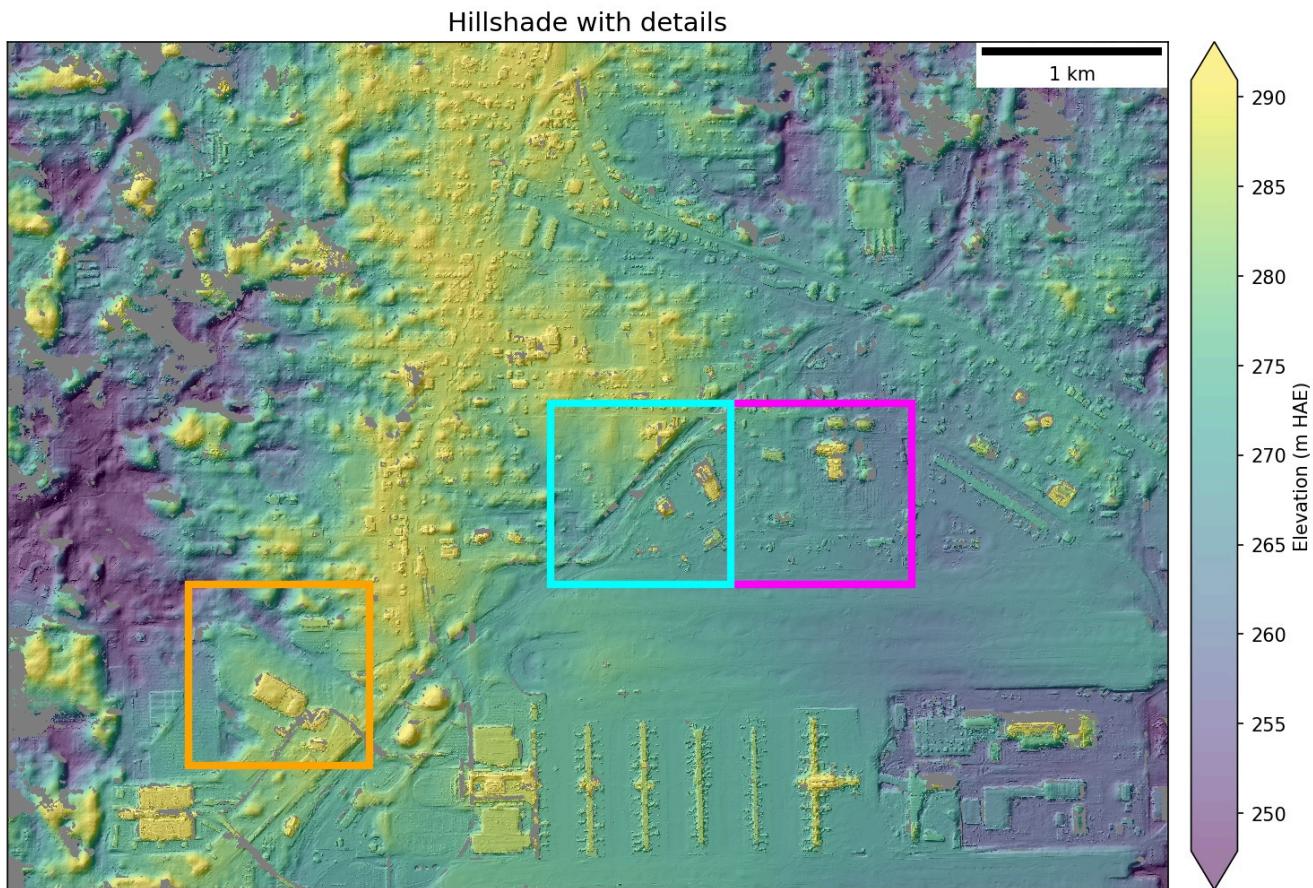
## **Stereo (0 hours and 50 minutes):**

```
stereo --stereo-algorithm asp_mgm --subpixel-mode 9 --alignment-
method none --bundle-adjust-prefix ba/run --corr-seed-mode 1 --
compute-point-cloud-center-only --threads 48
10300100036D5200_P002_corr.map.tif 1030010003D22F00_P001_corr.map.tif
10300100036D5200_P002.xml 1030010003D22F00_P001.xml stereo/run ref/
ref-utm.tif
```

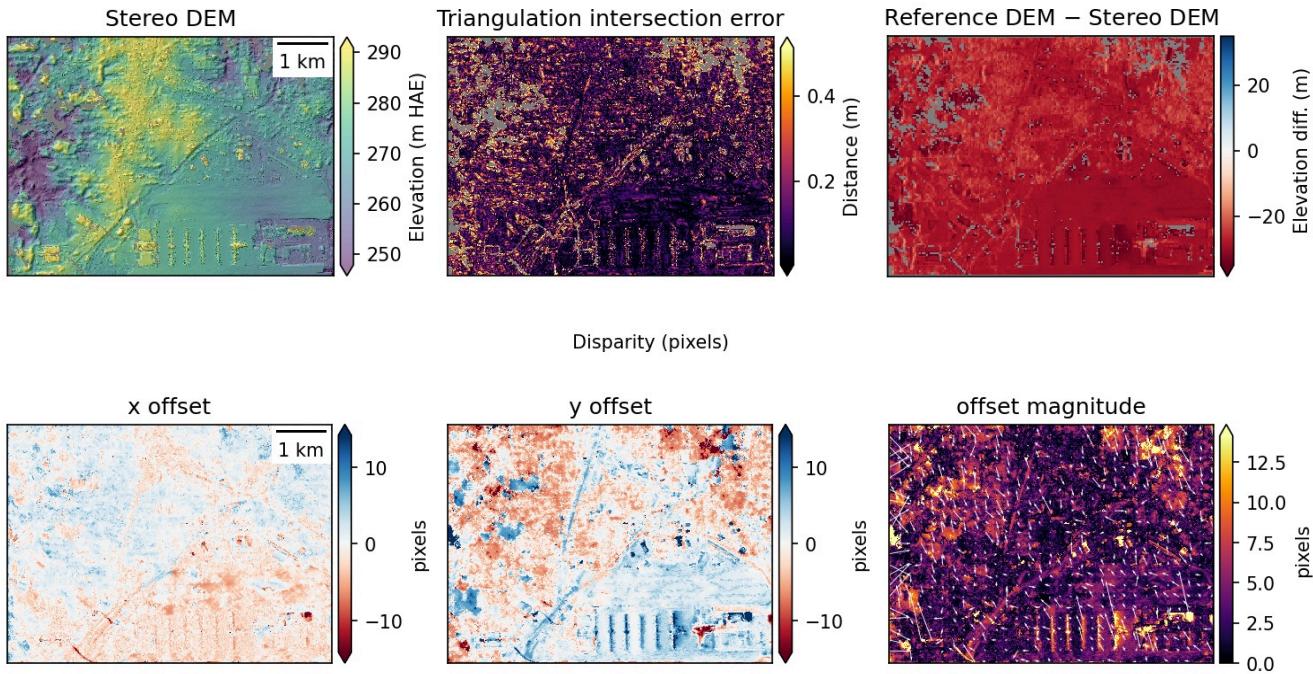
## **point2dem (0 hours and 1 minutes):**

```
point2dem --tr 1 --t_srs "+proj=utm +zone=16 +datum=WGS84 +units=m
+no_defs" --errorimage stereo/run-PC.tif
```

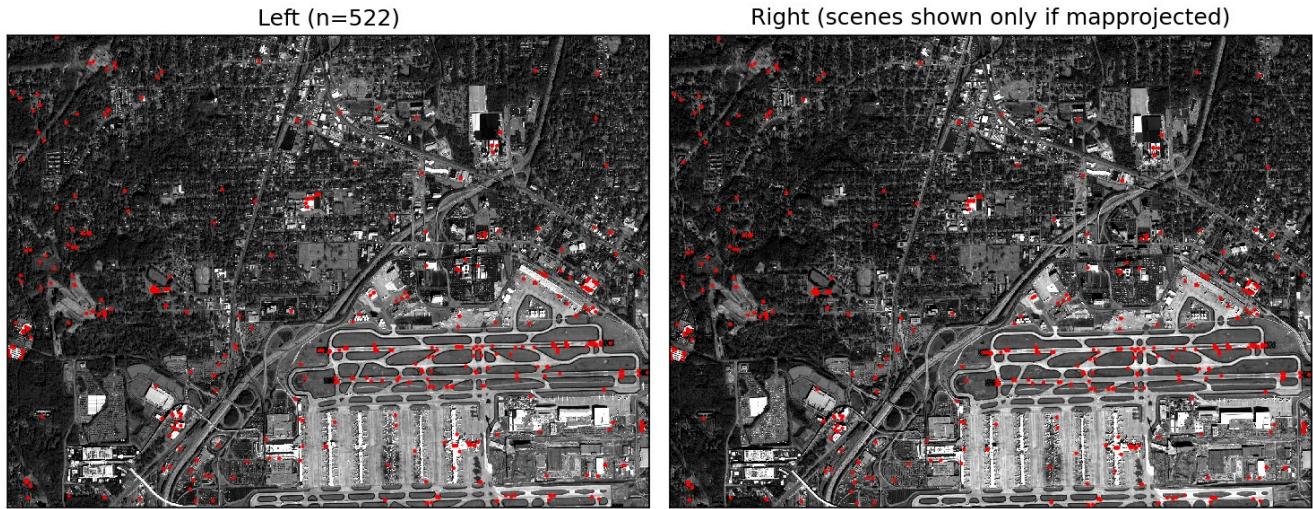
# Plots



### Stereo DEM Results



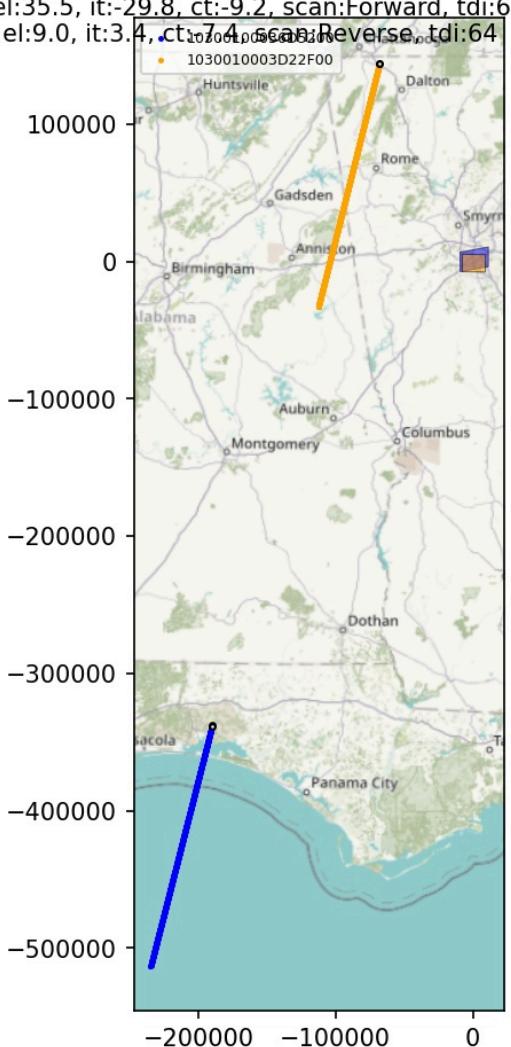
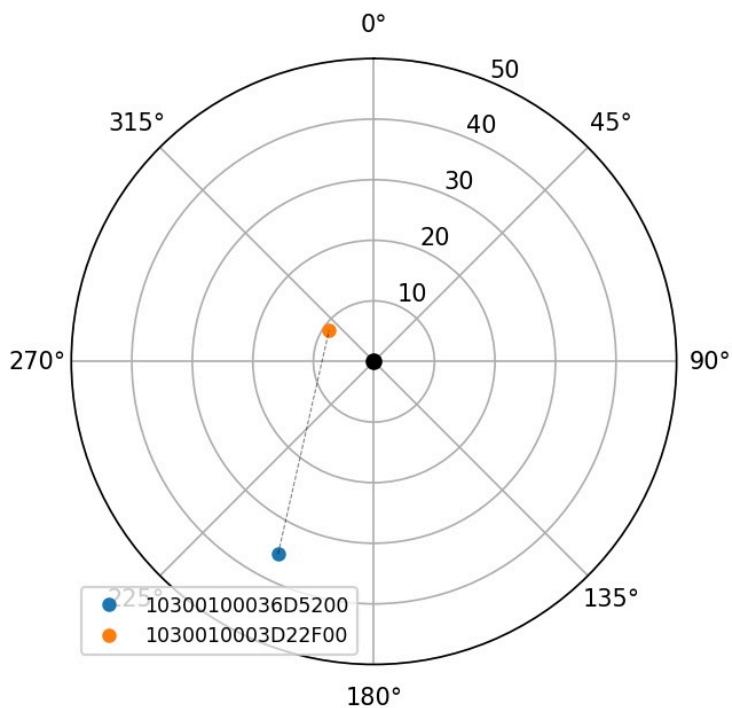
### Stereo Match Points



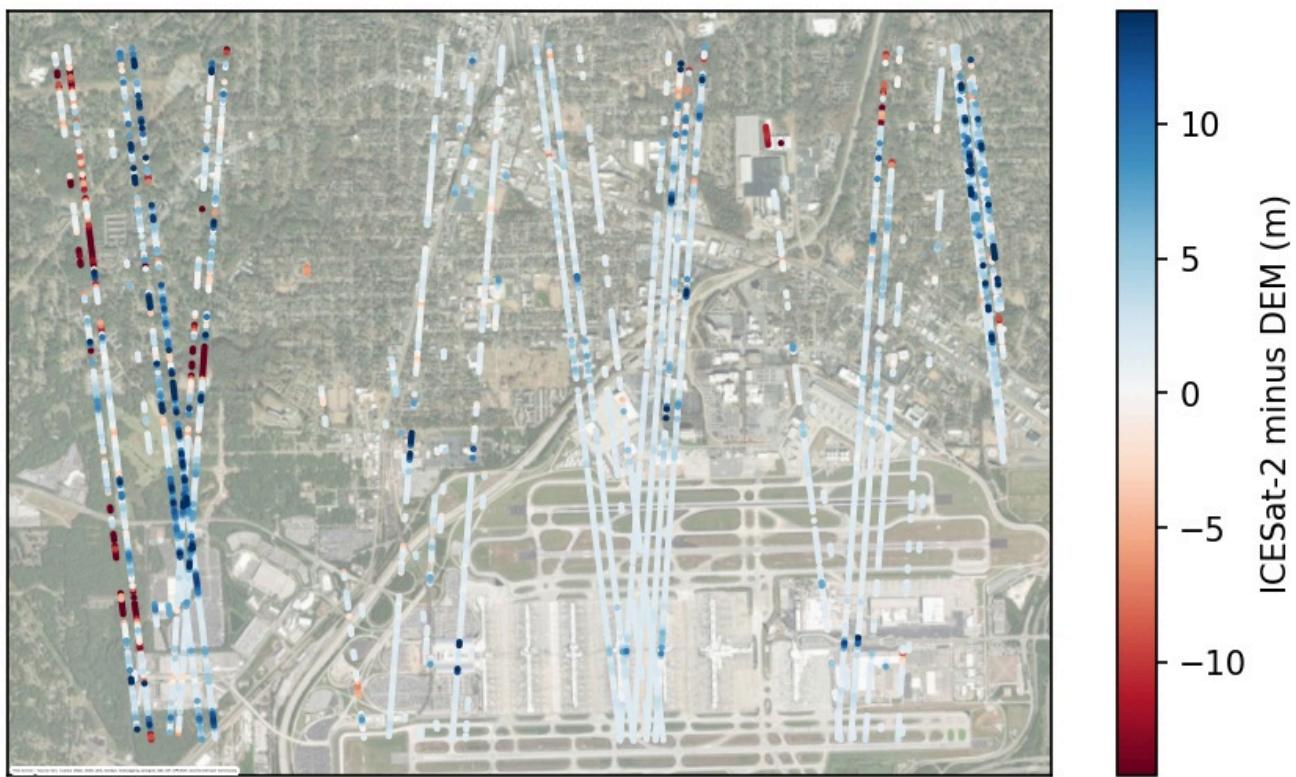
### Stereo Scenes Map-projected Scenes



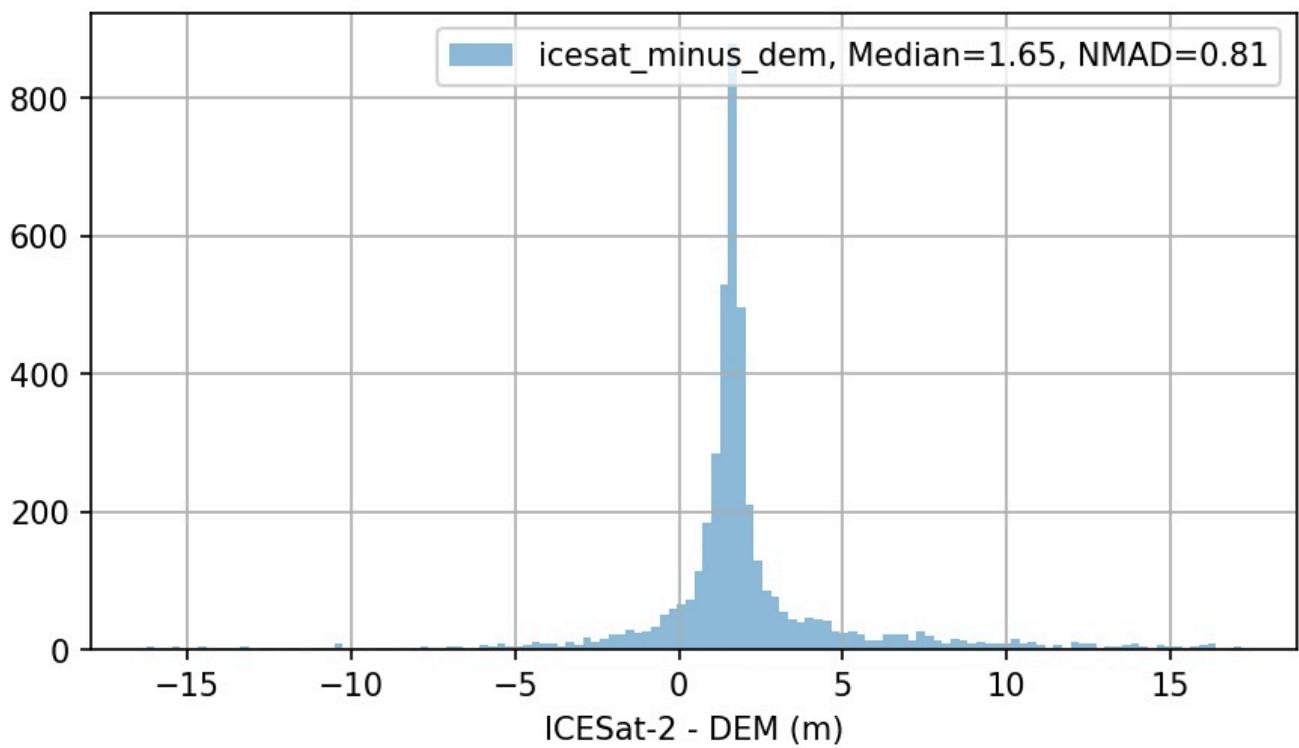
atlanta\_stereo  
Center datetime: 2009-12-22 16:36:57.884575  
Time offset: 0:01:13.192000  
Conv. angle: 37.68, B:H ratio: 0.68, BIE: 72.16, Assym Angle: 77.64, Int. area: 179.90 km<sup>2</sup>  
ID:10300100036D5200, GSD:0.62, off:31.0, az:206.5, el:35.5, it:-29.8, ct:-9.2, scan:Forward, tdi:64  
ID:1030010003D22F00, GSD:0.48, off:8.1, az:304.5, el:9.0, it:3.4, ct:7.4, scan:Reverse, tdi:64



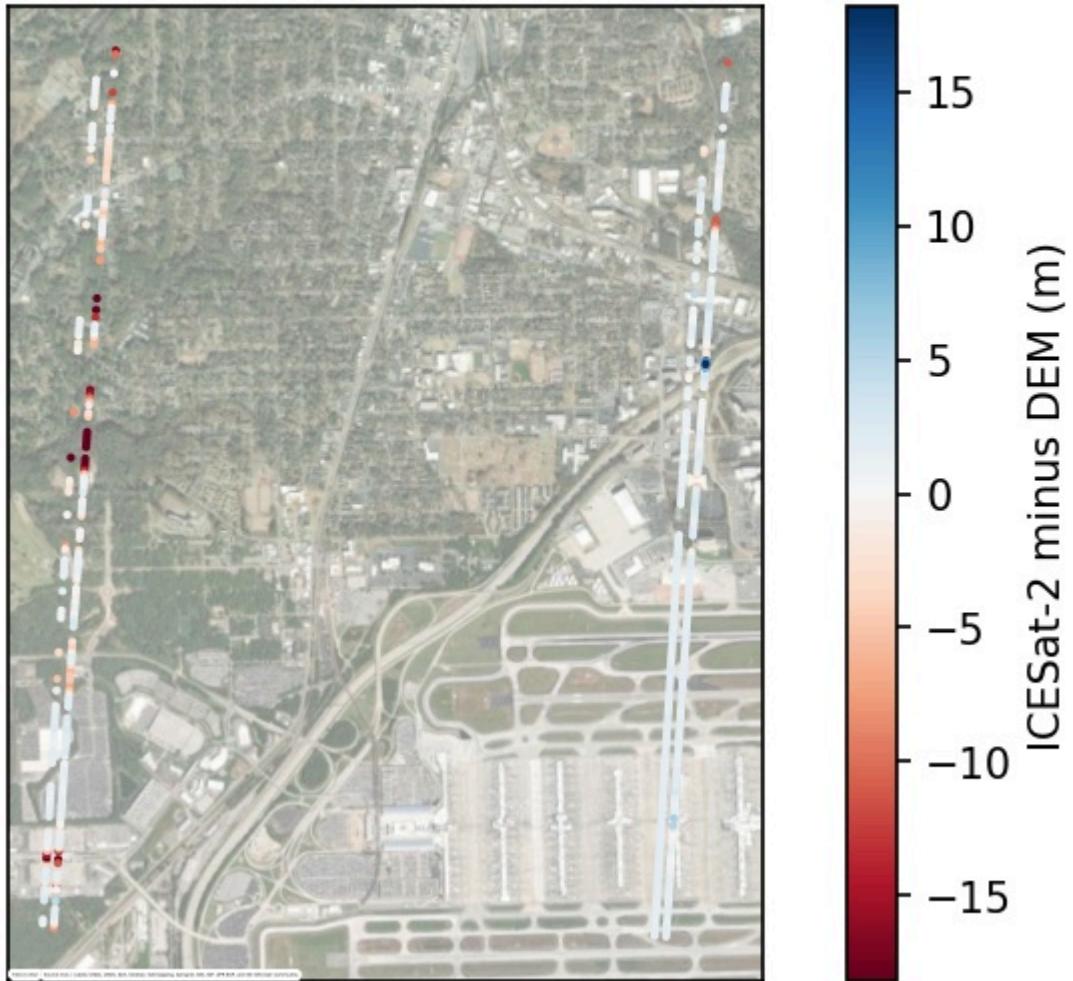
ICESat-2 ATL06-SR  
all (n=5222)



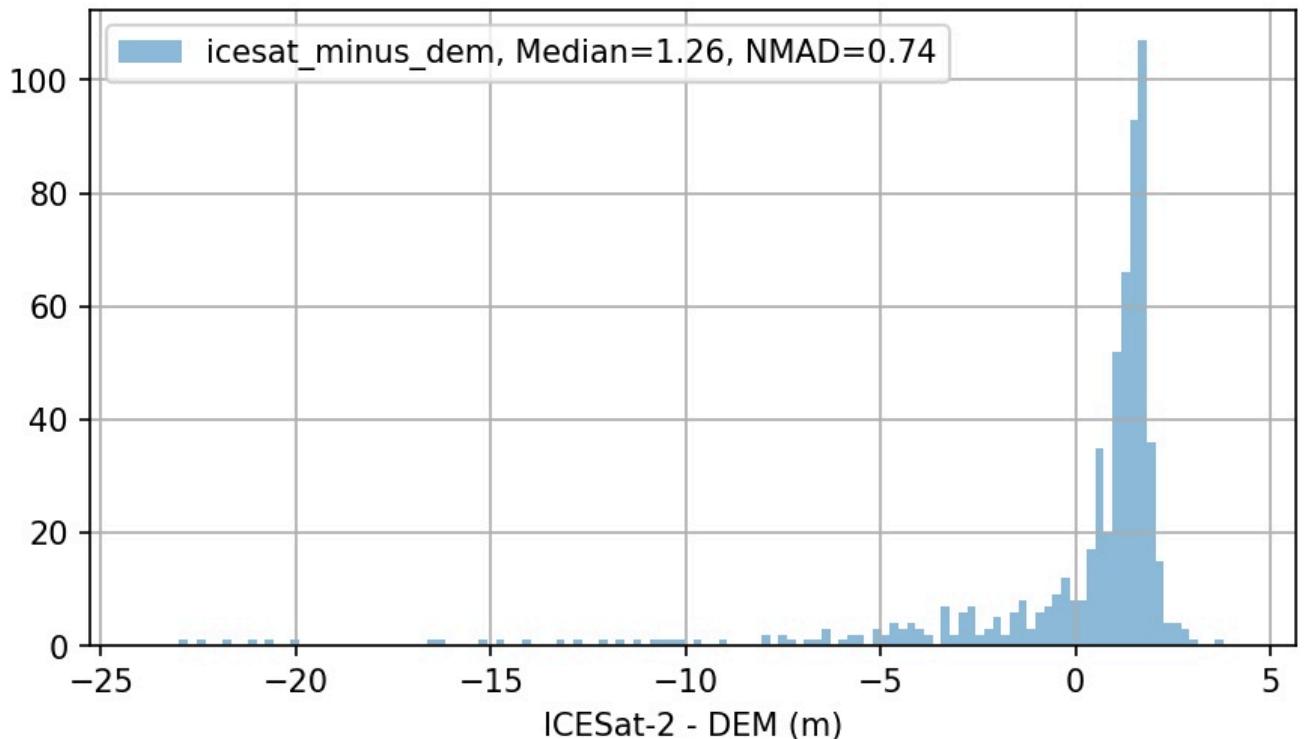
Histogram  
all (n=5222)



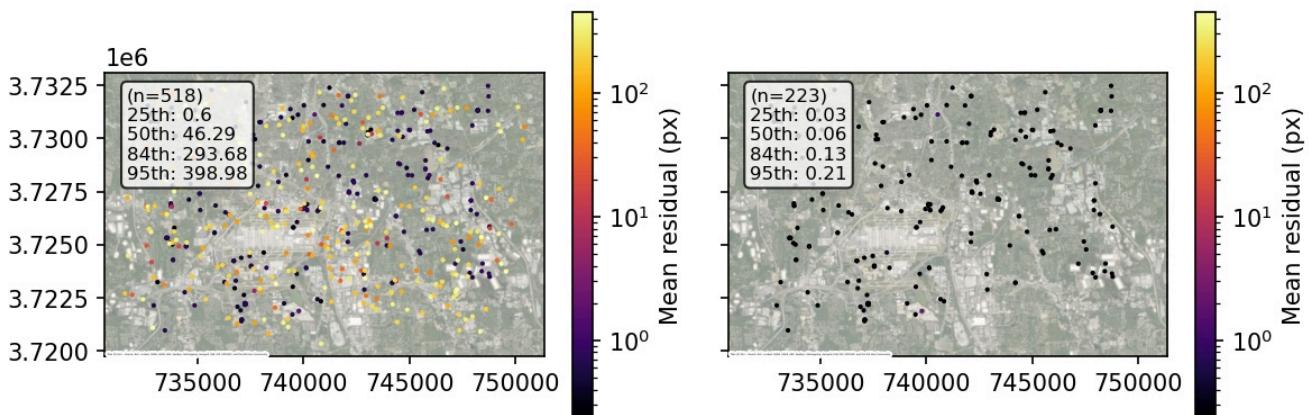
ICESat-2 ATL06-SR  
ground\_seasonal (n=718)



Histogram  
ground\_seasonal (n=718)



Bundle Adjust Initial and Final Residuals (Log Scale)



Bundle Adjust Initial and Final Residuals (Linear Scale)

