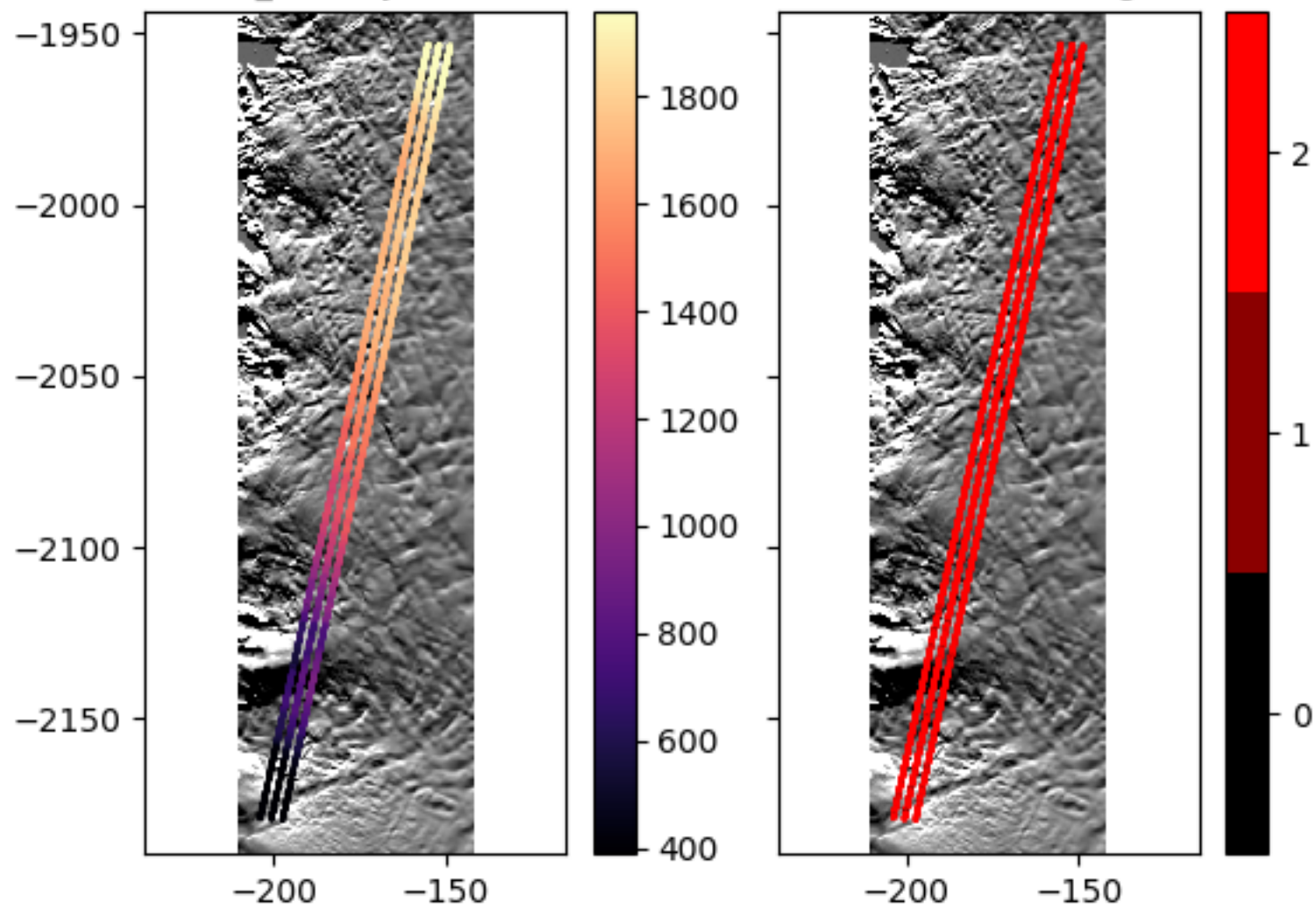Figure 1. Height data, in meters, from cycle 4 (left). Number of cycles with valid height data (right). Both overlaid on gradient of DEM. x, y in km.

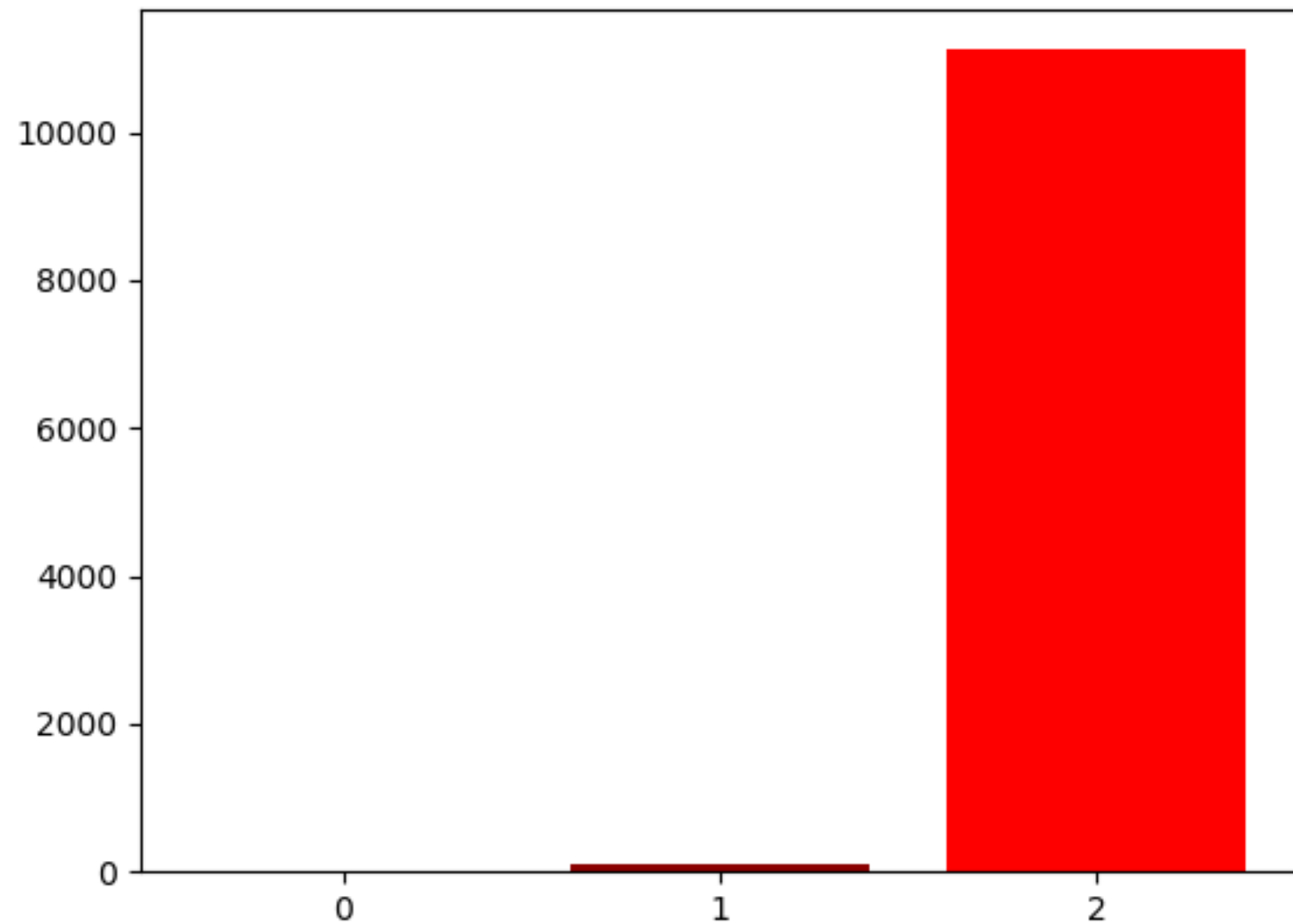# ATL11_078805_0304_02_v002.h5

Figure 2. Histogram of number of cycles with valid height data, all pairs.

ATL11_078805_0304_02_v002.h5

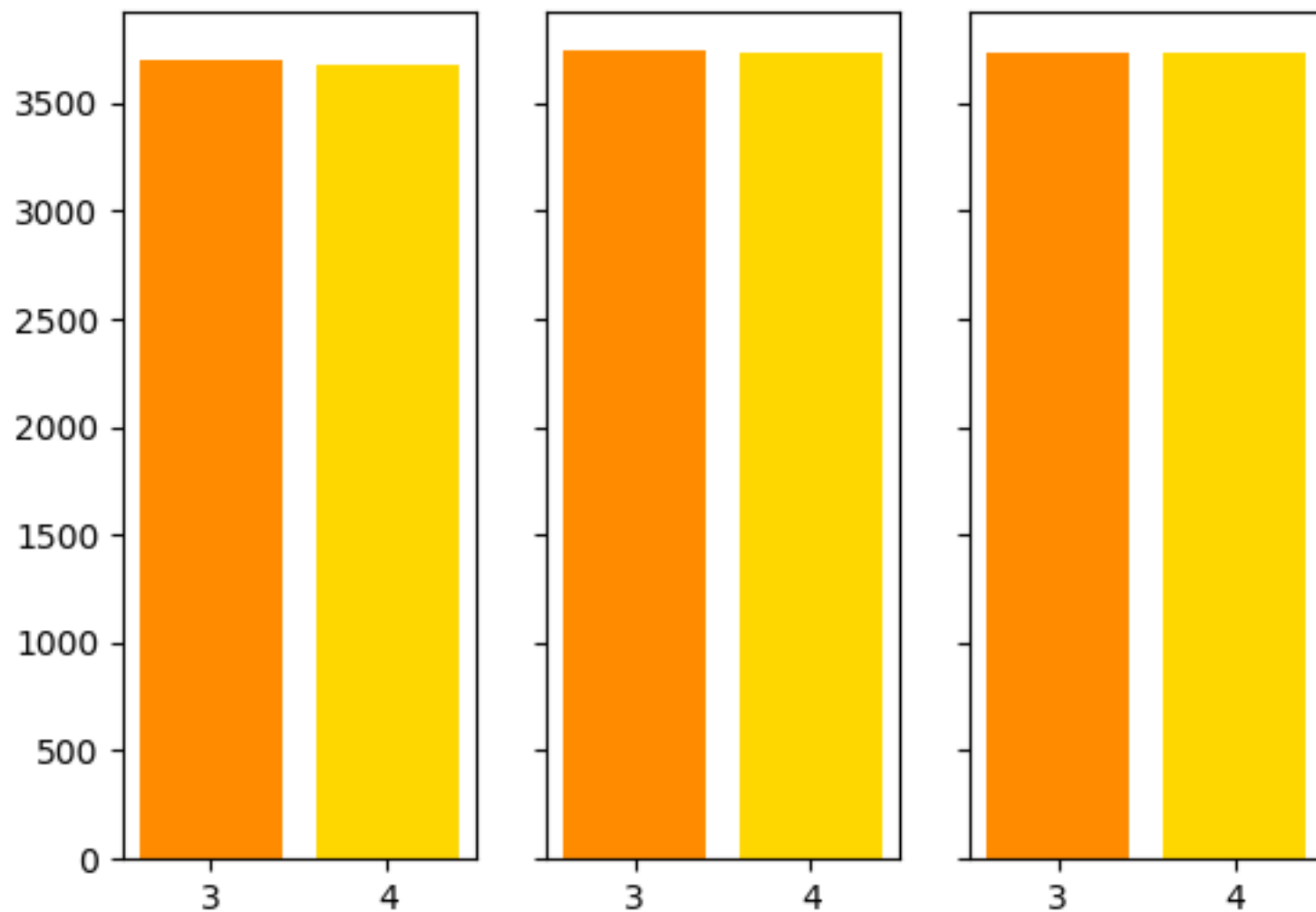## Number of valid heights from each pair

Figure 3. Histogram of number of valid height values from each pair: 1,2,3 left to right. Color coded by cycle number.

ATL11_078805_0304_02_v002.h5
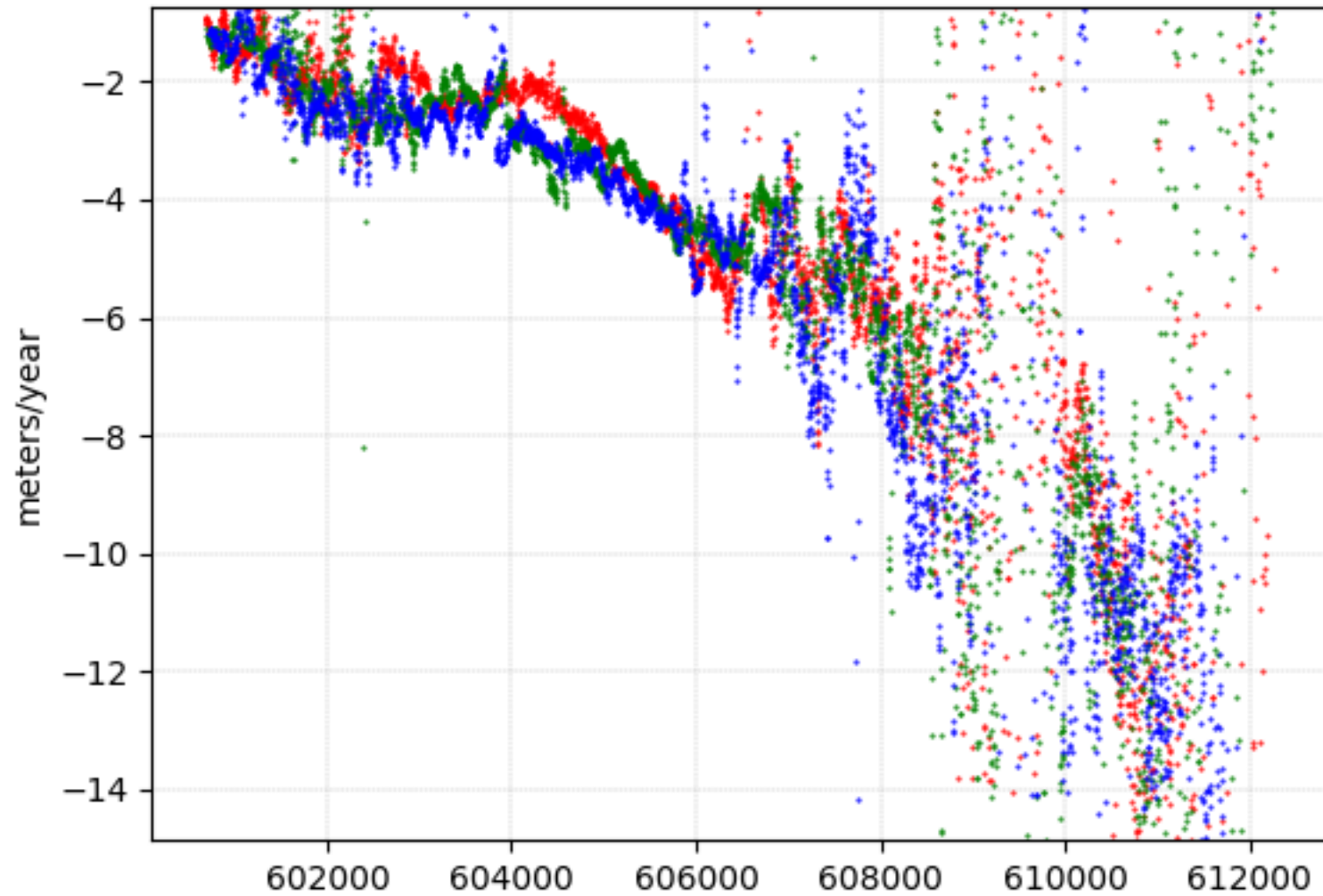
Change in height over time: cycle 4 minus cycle 3

Figure 4. Change in height over time, dH/dt, in meters/year. dH/dt is the last cycle minus the first cycle in the file. Color coded by beam pair: 1 (red), 2 (green), 3 (blue). Plotted against reference point.

ATL11_078805_0304_02_v002.h5
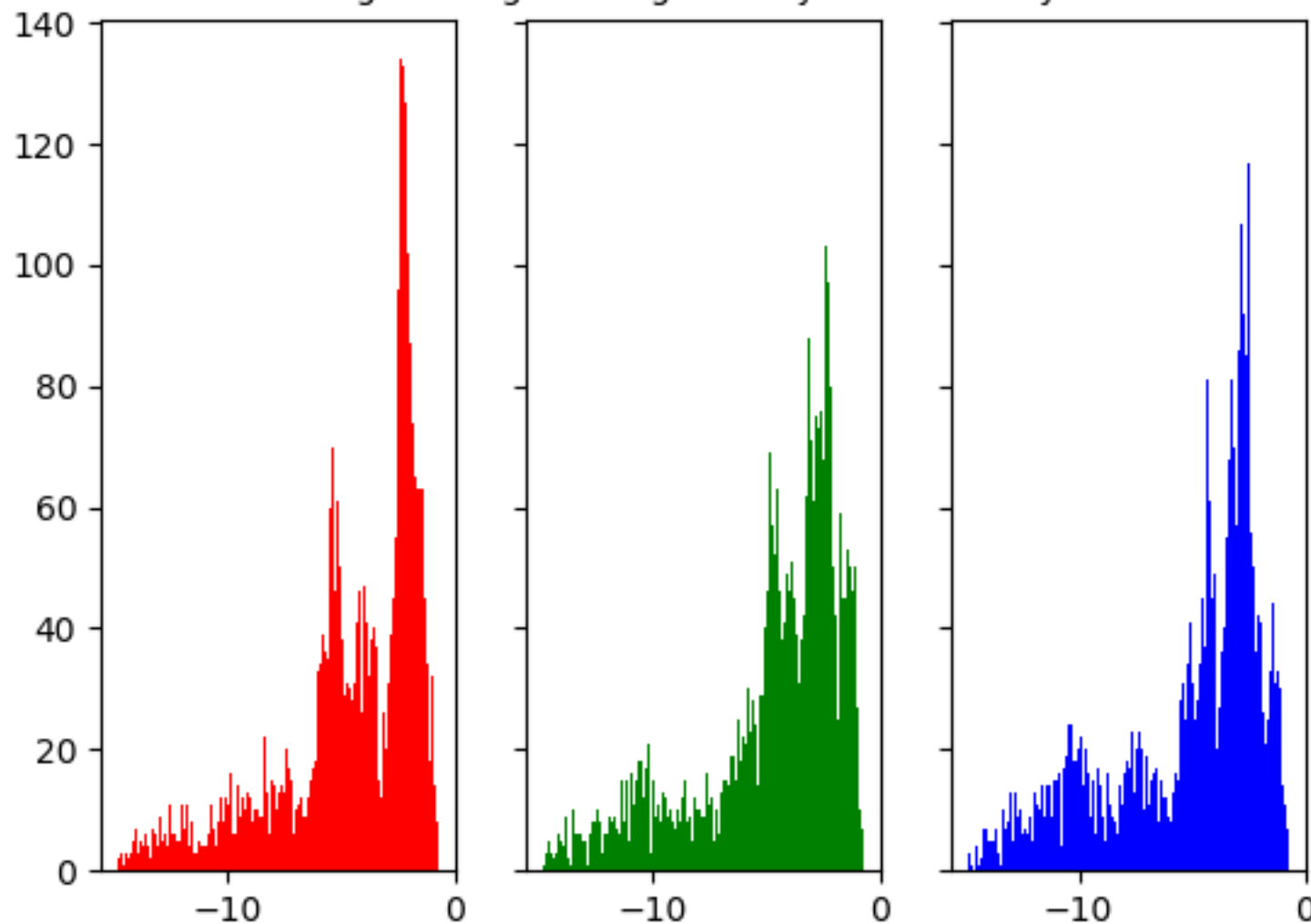
Change in height histograms: cycle 4 minus cycle 3

Figure 5. Histograms of change in height over time, dH/dt, in meters/year. dH/dt is the last cycle minus the first cycle in the file. One histogram per beam pair: 1 (red), 2 (green), 3 (blue).
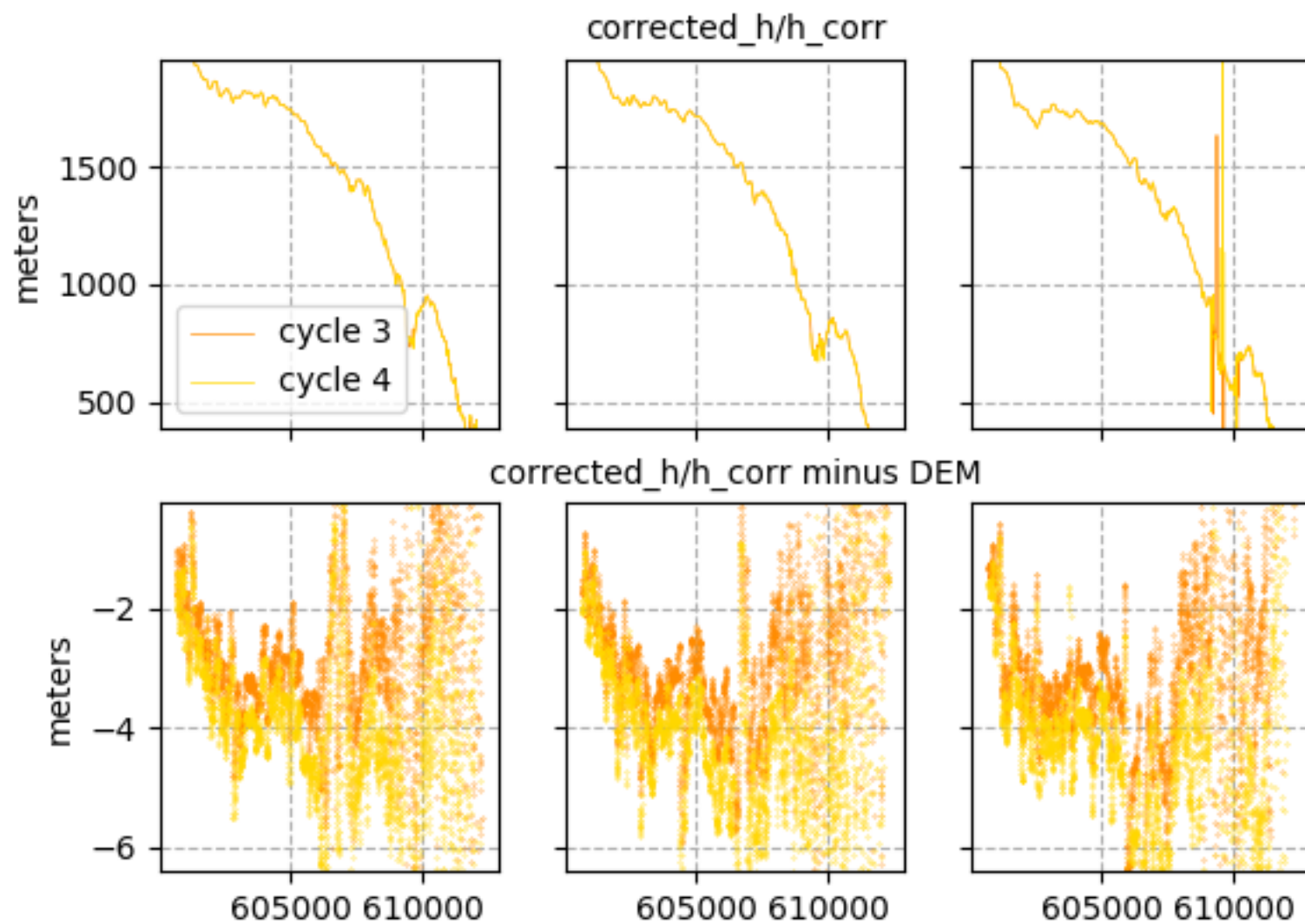
Figure 6. Top row: Heights, in meters, plotted for each beam pair: 1 (left), 2 (center), 3 (right). Bottom row: Heights minus DEM. Color coded by cycle number. Plotted again reference point.
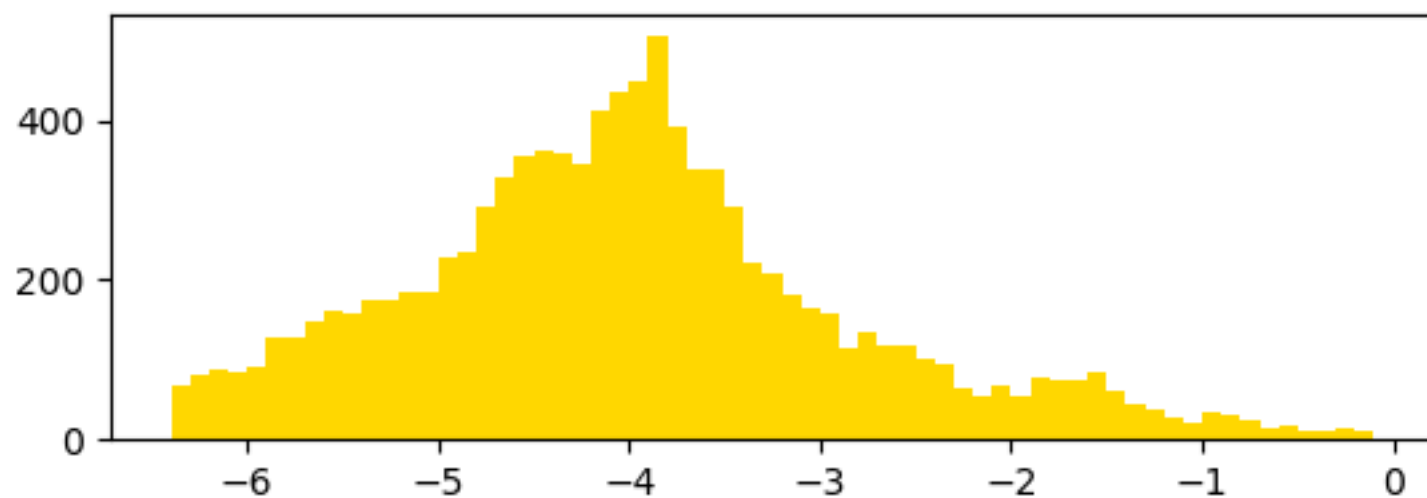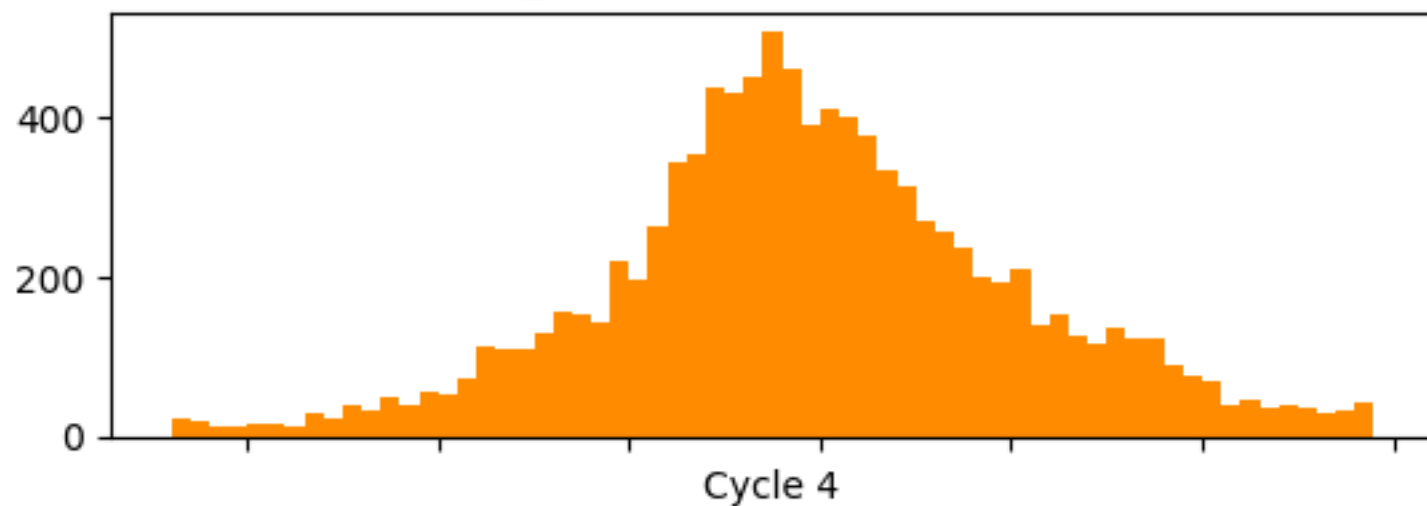
Figure 7. Histogram of corrected_h/h_corr heights minus DEM, in meters. One historgram per cycle, all pairs.

ATL11_078805_0304_02_v002.h5

crossing_track_data/h_corr

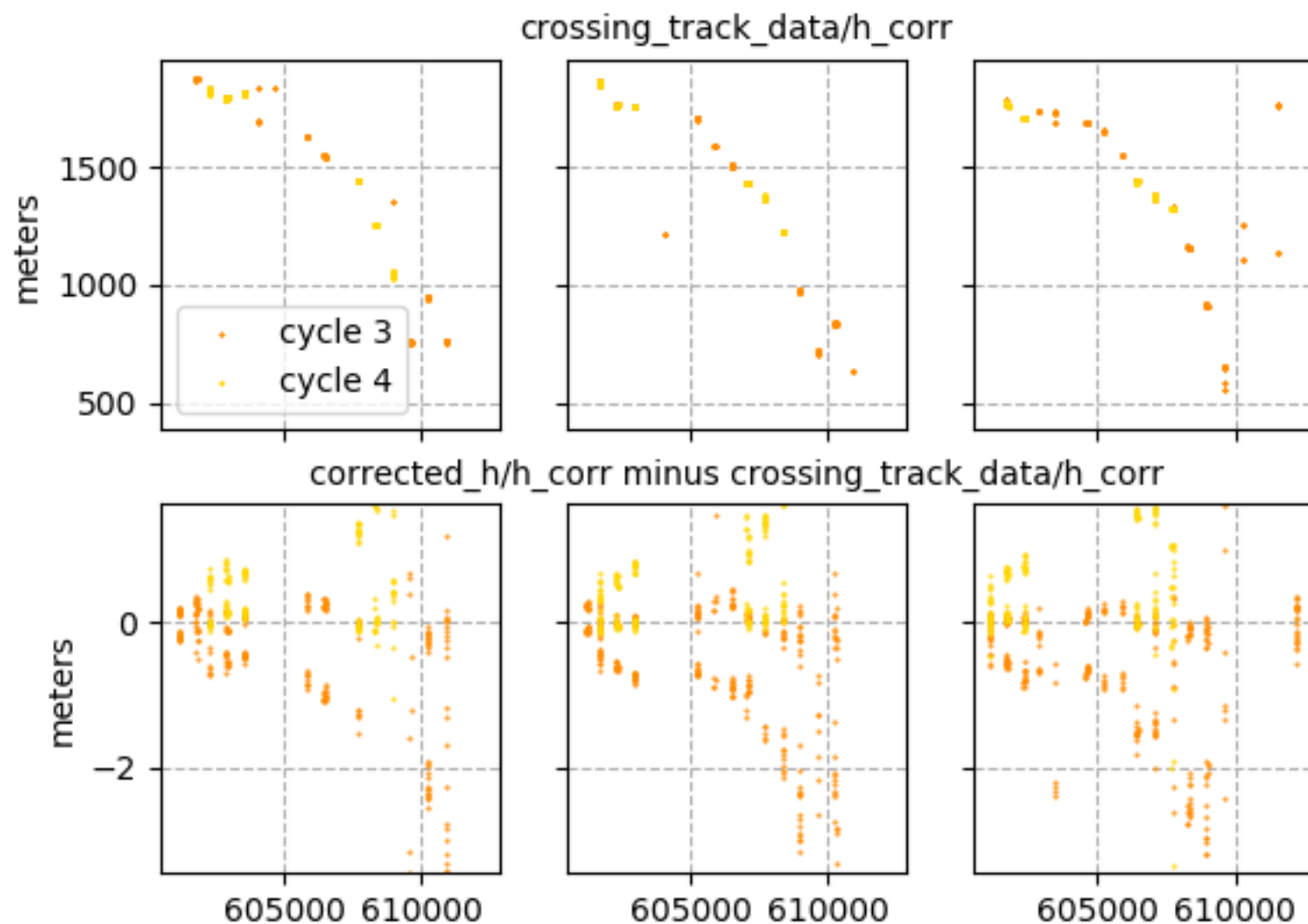## corrected_h/h_corr minus crossing_track_data/h_corr

Figure 8. Top row: Heights from crossing track data, in meters, plotted for each beam pair: 1 (left), 2 (center), 3 (right). Bottom row: Heights minus crossing track heights. Color coded by cycle number. Plotted against reference point.