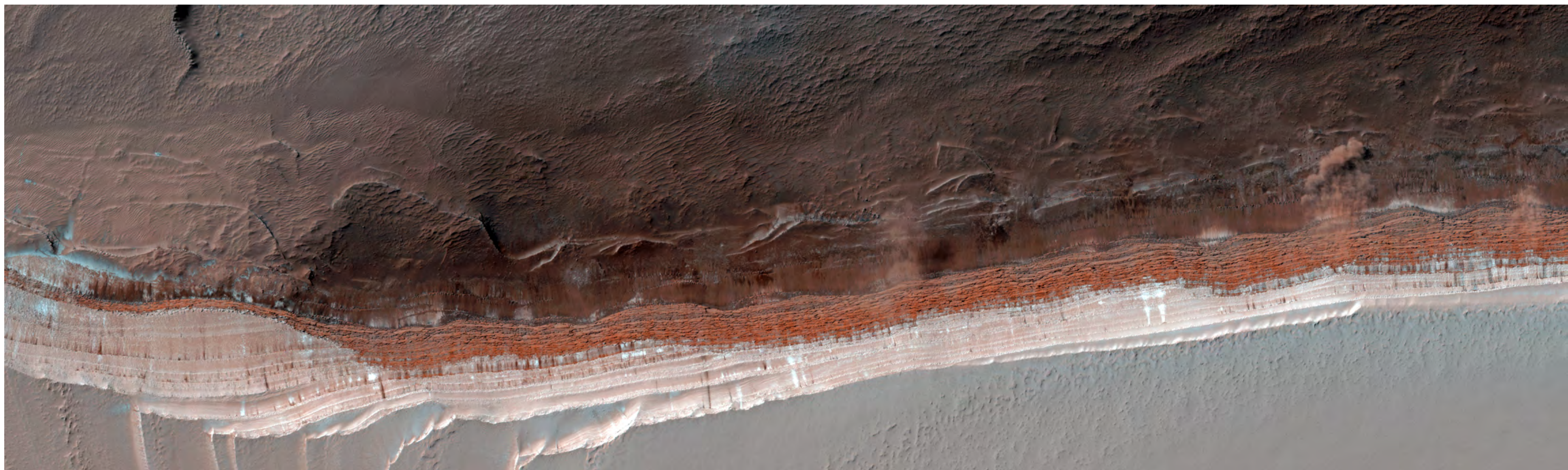
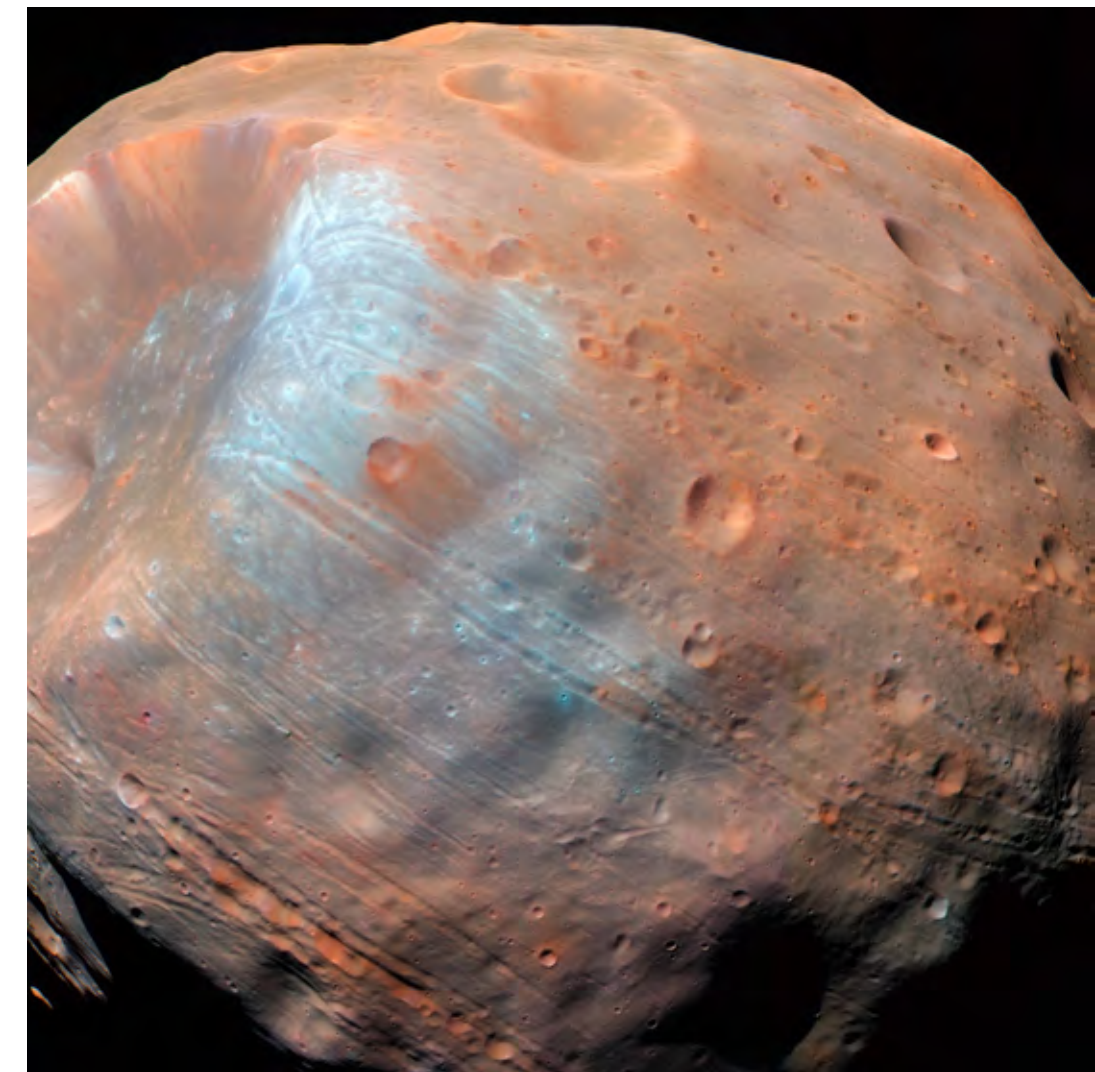
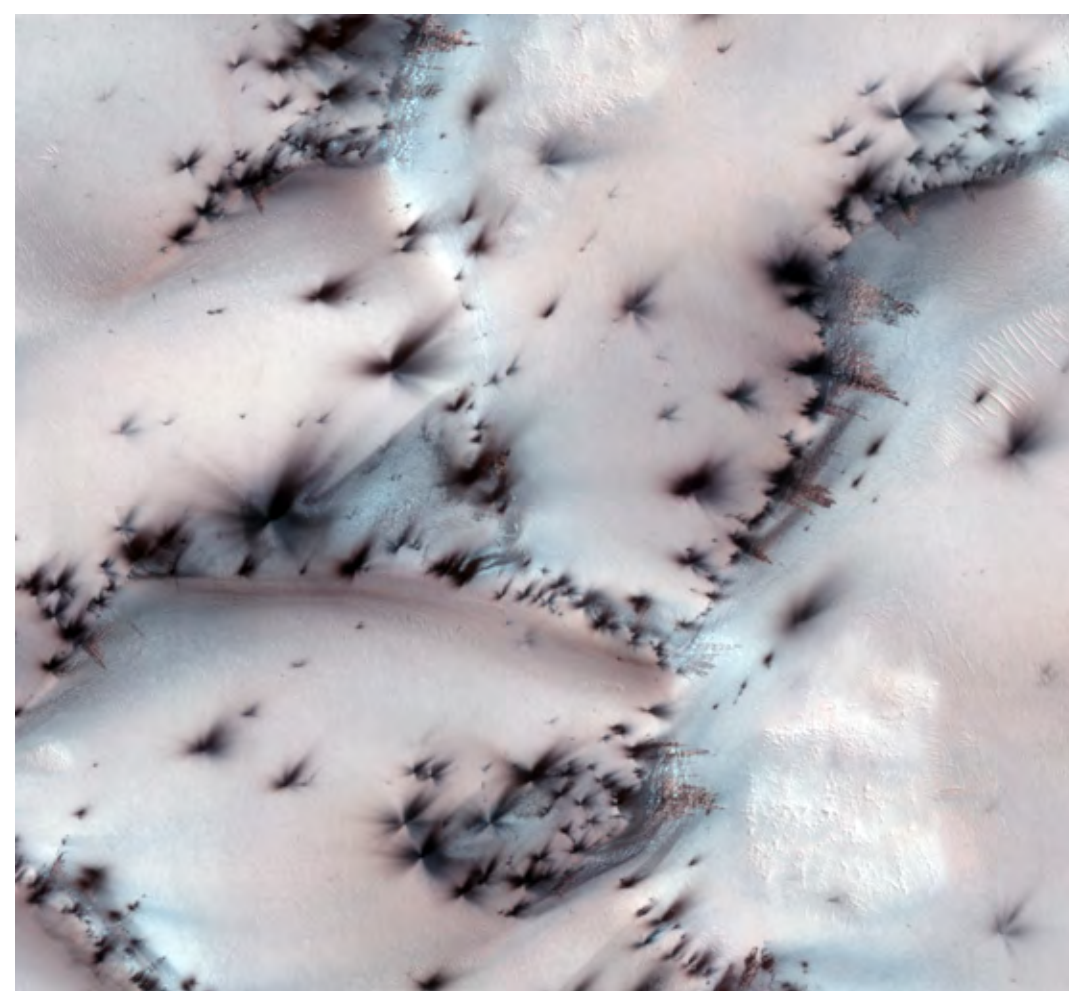
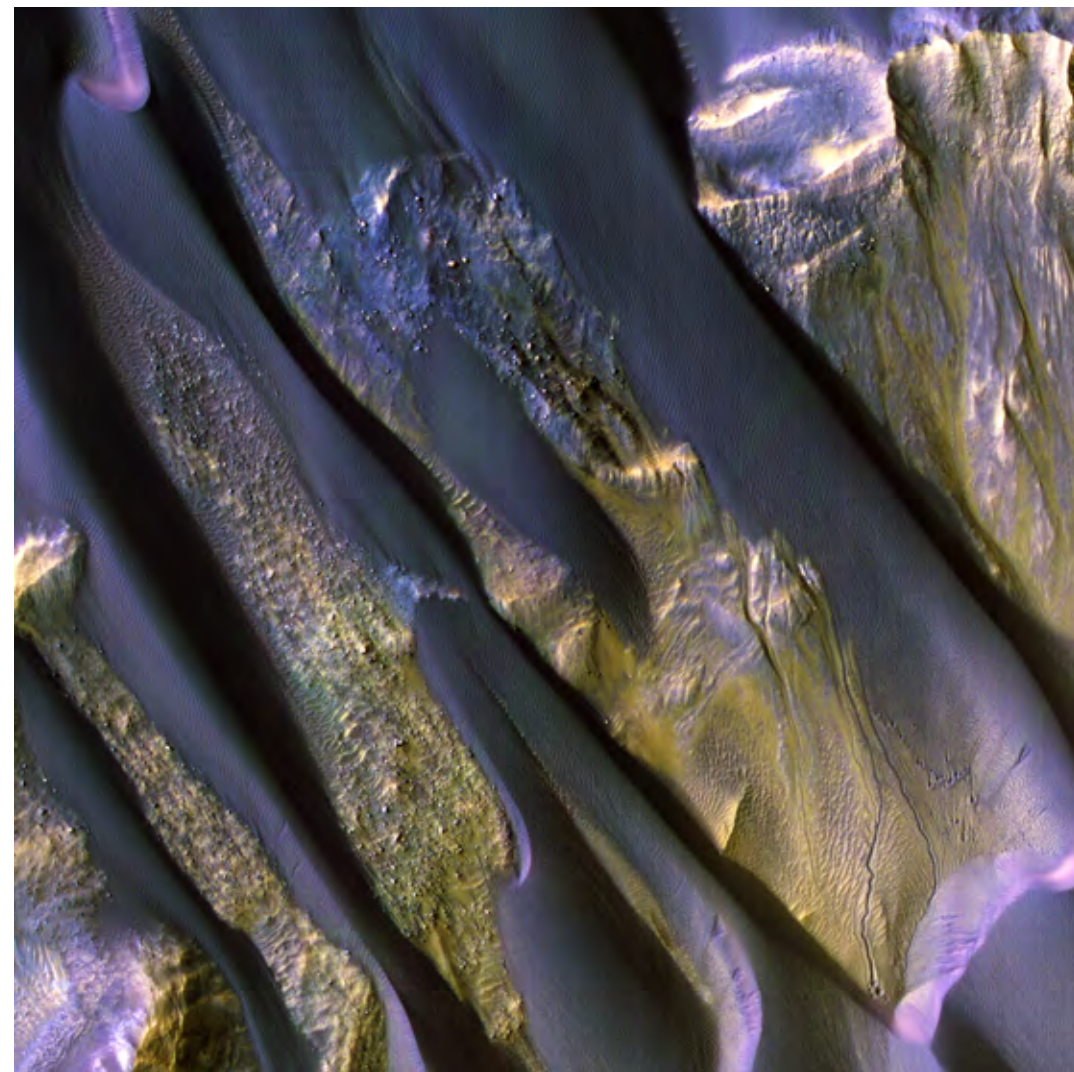
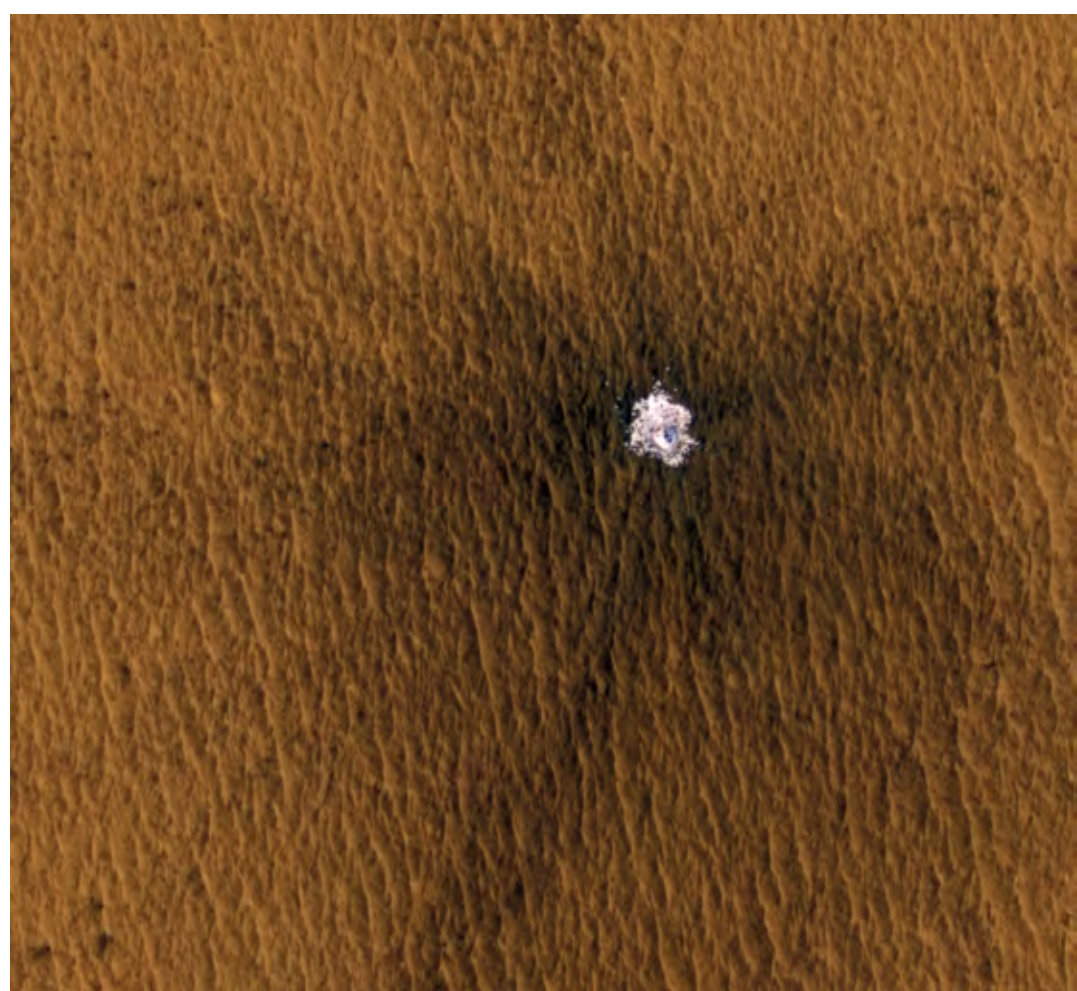
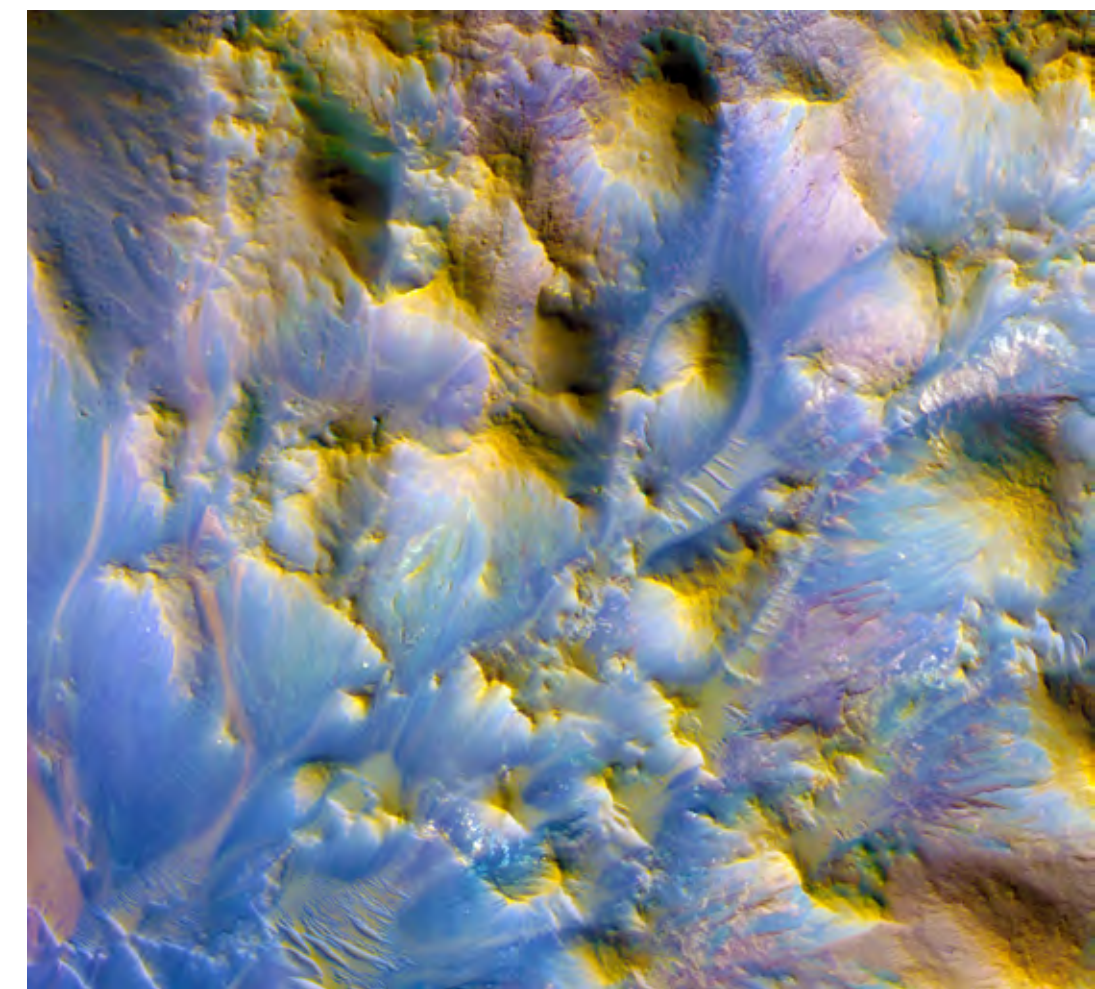
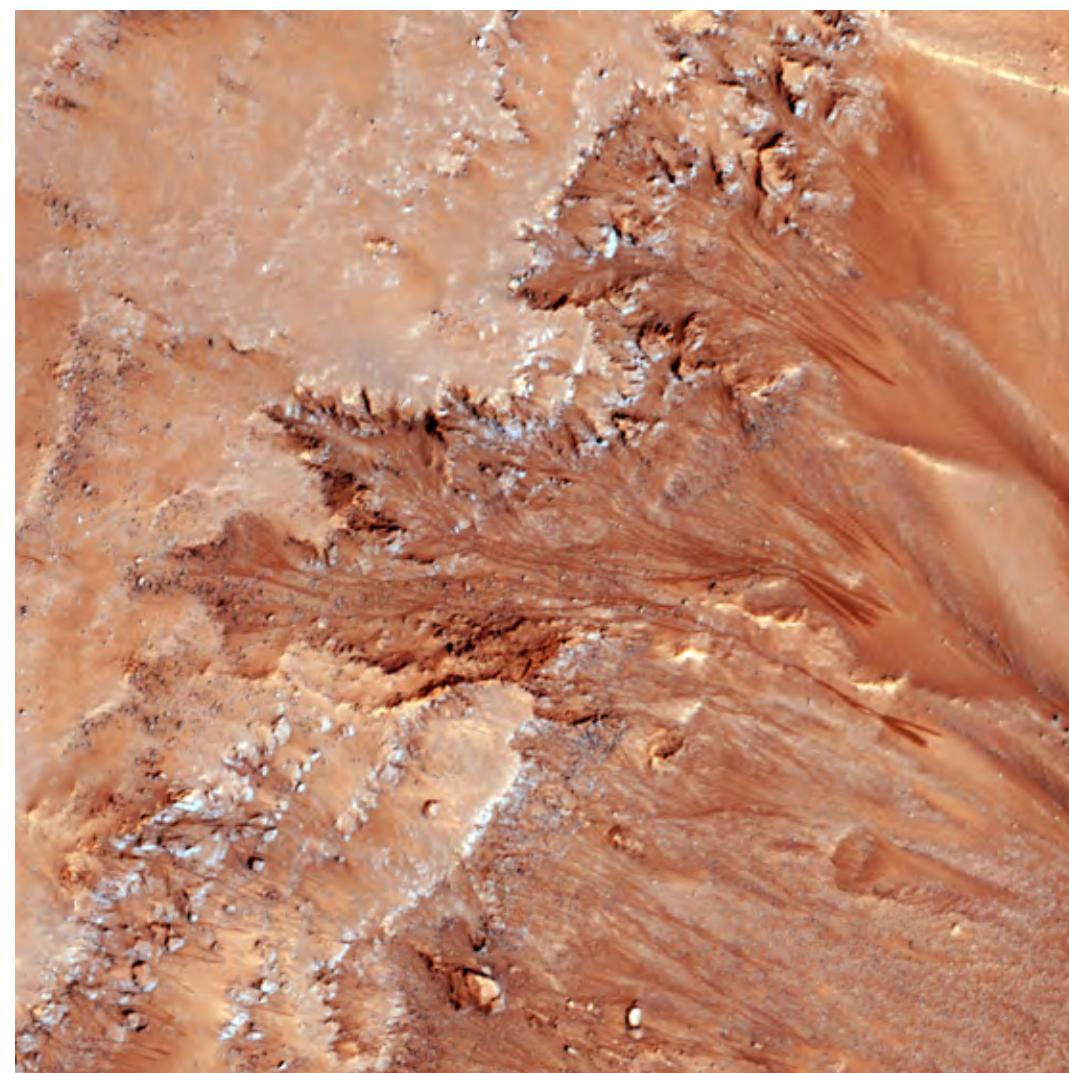
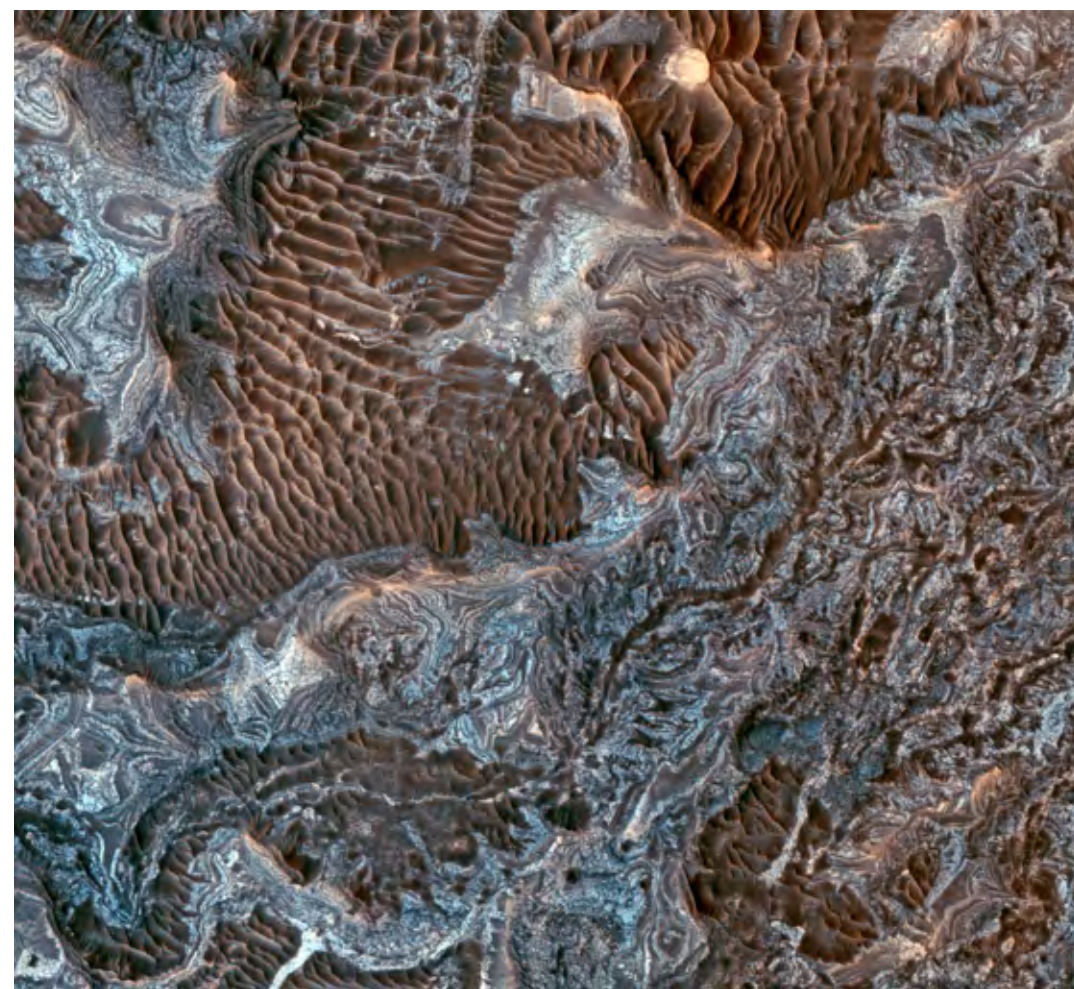
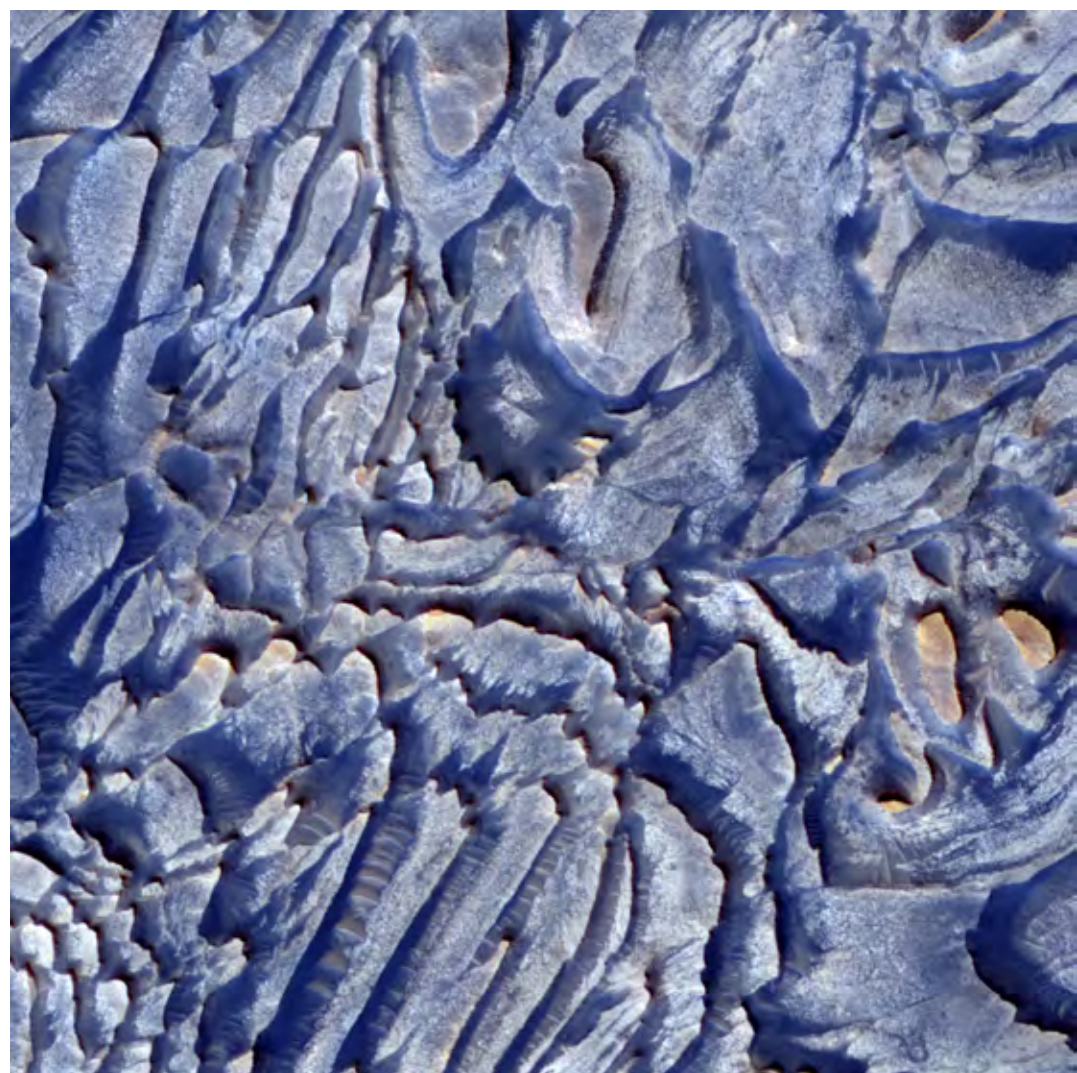
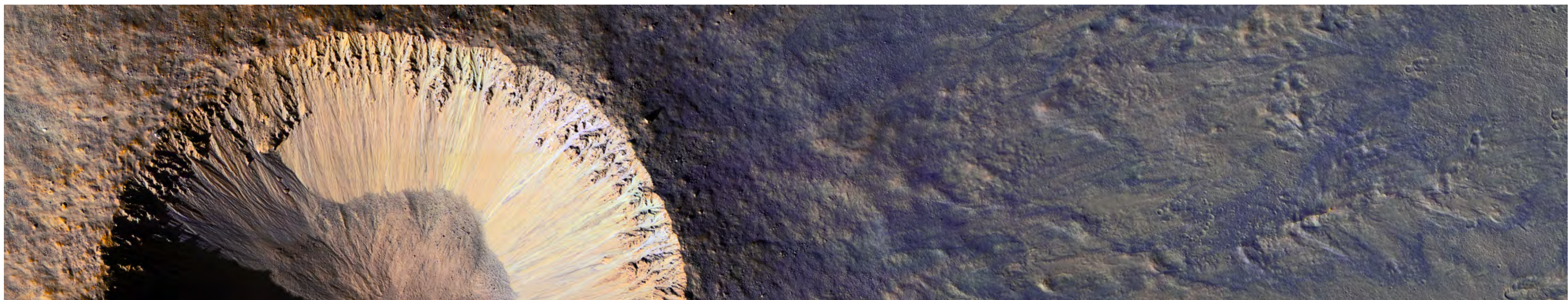


# HiRISE: High Resolution Imaging Science Experiment

HiRISE is the most powerful camera ever sent to another planet. From on-board NASA's Mars Reconnaissance Orbiter, HiRISE observes the Martian surface at resolutions down to 25 cm/pixel, in three wavelengths and in stereo. The USGS Astrogeology Science Center in Flagstaff, AZ participates in the daily operations of HiRISE and with the processing, distribution and archiving of these data. View thousands of images and suggest your own at [UAHiRISE.org](http://UAHiRISE.org).



**HiRISE**

These images are enhanced color views. The HiRISE camera samples wavelengths of light that are different than human eyes would see, and the images are stretched to optimize color contrast. The HiRISE bandpasses are 400–600 nm (blue-green), 550–850 nm (red), 800–1000 nm (infrared). The “RGB” images display the red data as red, the blue-green data as green, and a ratio of the red to blue-green data as blue. In the “IRB” images, the infrared, red, and blue-green data are displayed in color as red, green and blue respectively. Top row: Fresh impact crater in Bosphorus Planum, ESP\_024927\_1445, IRB, 10.7 km image width. Row 2: Faulted sedimentary deposits in Danielson crater, PSP\_008930\_1880, IRB, 0.67 km image width. Sedimentary deposits in Melas Chasma, ESP\_013561\_1705, RGB, 1.0 km image width. Dark recurring slope lineae in Palikir crater, ESP\_022689\_1380, RGB, 0.47 km image width. Central pit of an impact crater in Terra Sirenum, ESP\_016136\_1525, IRB, 1.14 km image width. Row 3: New impact crater exposing ice, ESP\_025840\_2240, IRB, 0.50 km image width. Dunes in western Nereidum Montes, ESP\_012202\_1390, IRB, 1.02 km image width. Sublimation-driven fan deposits and seasonal ice on the north polar dunes, ESP\_012202\_1390, IRB, 1.04 km image width. Phobos (a moon of Mars) PSP\_007769\_9015, IRB, 16.6 km approximate image width. Row 4: Seasonal avalanches in the north polar layered deposits, PSP\_007338\_2640, RGB, 8.61 km image width. Bottom row: Mars Exploration Rover Opportunity (arrow) at the southeast rim of Santa Maria crater, ESP\_021536\_1780, RGB, 0.4 km image width.

