

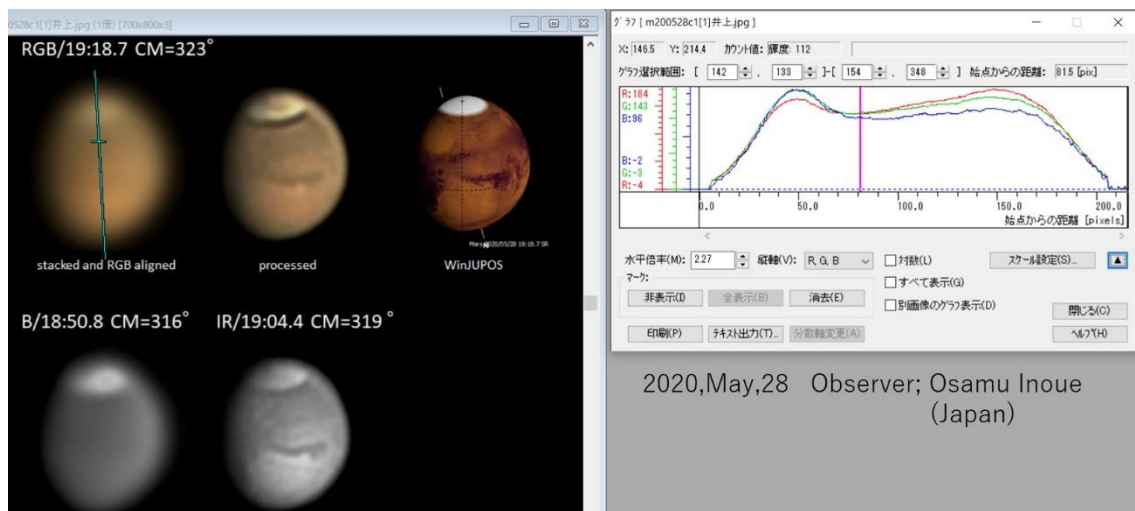
Dust veil distribution

ALPO Japan; Makoto Adachi

As of the end of May 2020, I quoted images around 330° west longitude and examined them using image analysis software "Makari".

The sublimation of the SPC has begun, and the wind is starting to blow north from the SPC. for that reason. A northward wind is blowing at the edge of the SPC. The black edge of the SPC is noticeable on the surface of Mars after image processing. Actually, it is not black as seen in the image, but it is clearly a black band. It is thought that the surface sand was blown off and the black rocks were exposed, which is called the dark fringe. Fine particles spread from here to the atmosphere in the north, and sometimes become dust veil toward the north. Since the optical thickness of the dust veil seems to be thicker in the area where there is more wind from the SPC, we are paying attention to the image.

The image used this time was scanned in the north-south direction using the one that was not subjected to the emphasis processing. The green line in the image is the scan direction. The purple line (right) is the short green on the left This is the check position.



From the purple position to the right, the red line is at the top. In other words, the dust is spreading to the atmosphere on the south side from here. At this time, dust is known to gradually increase in optical thickness near the equator, and this image supports that fact.

Below the scanned image, there is a blue image, but it is black to the purple position, indicating that this part is clear. The image is not in high definition, but it is rather desirable when looking at these trends.

2020, June, 01