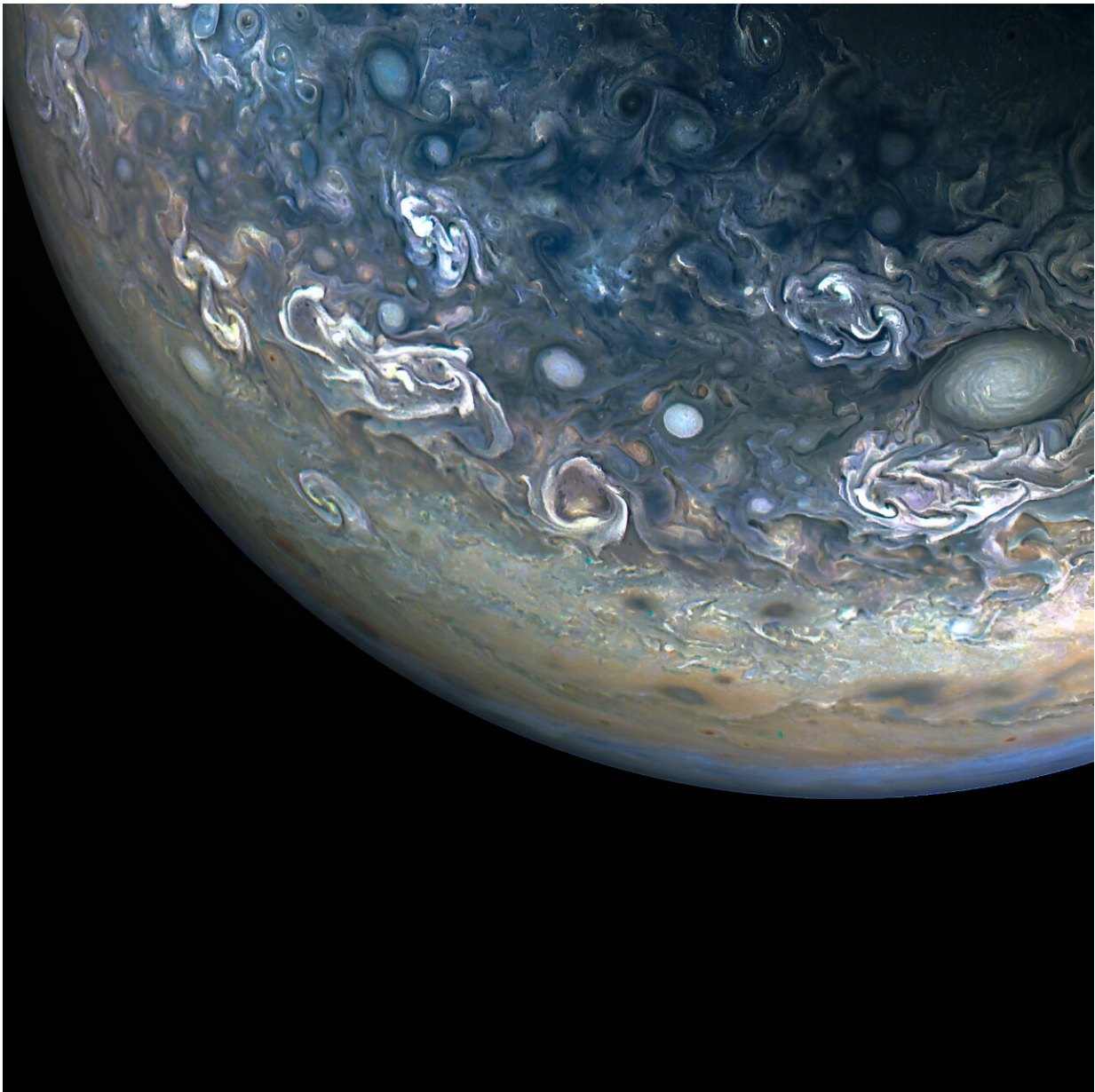


# Image: NASA's Juno mission captures the colorful and chaotic clouds of Jupiter

July 22 2024

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Credit: Image data: NASA/JPL-Caltech/SwRI/MSSSI Image processing by Gary Eason, CC BY

During its 61st close flyby of Jupiter on May 12, 2024, NASA's Juno spacecraft captured this color-enhanced view of the giant planet's northern hemisphere. It provides a detailed view of chaotic clouds and cyclonic storms in an area known to scientists as a folded filamentary region.

In these regions, the zonal jets that create the familiar banded patterns in Jupiter's clouds break down, leading to turbulent patterns and cloud structures that rapidly evolve over the course of only a few days.

Citizen scientist Gary Eason made this image using raw data from the JunoCam instrument, applying digital processing techniques to enhance color and clarity.

At the time the raw image was taken, the Juno spacecraft was about 18,000 miles (29,000 kilometers) above Jupiter's cloud tops, at a [latitude](#) of about 68 [degrees](#) north of the equator.

Provided by NASA

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