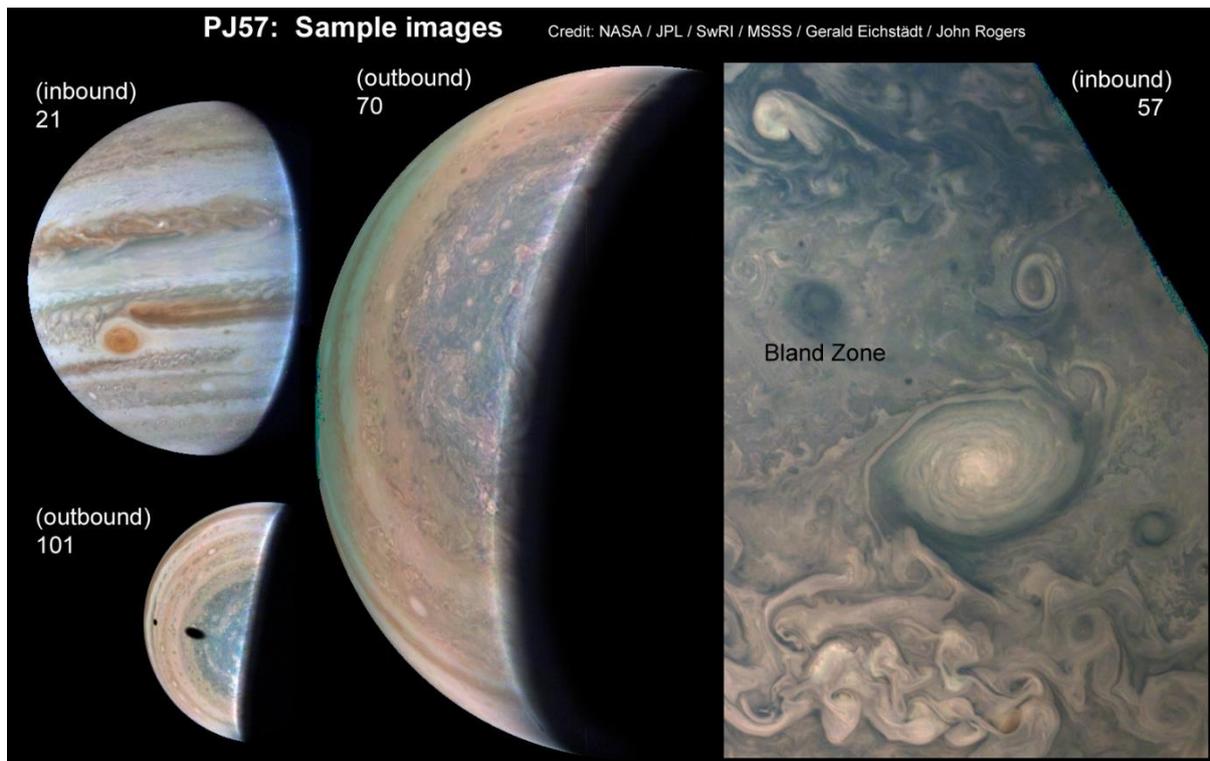


## JunoCam at PJ57: Part II: Jupiter

John Rogers (BAA) (2024 March 4)

**Figures** (small copies; full-size figures are in ZIP file):



**Figure 1.** A selection of images from beginning to end of the Jupiter flyby. All processed by Gerald Eichstädt, contrast enhanced by JHR. *Image 21:* GRS.

*Image 57* (detail): the large long-lived AWO on the N edge of the N5 domain (north is up).

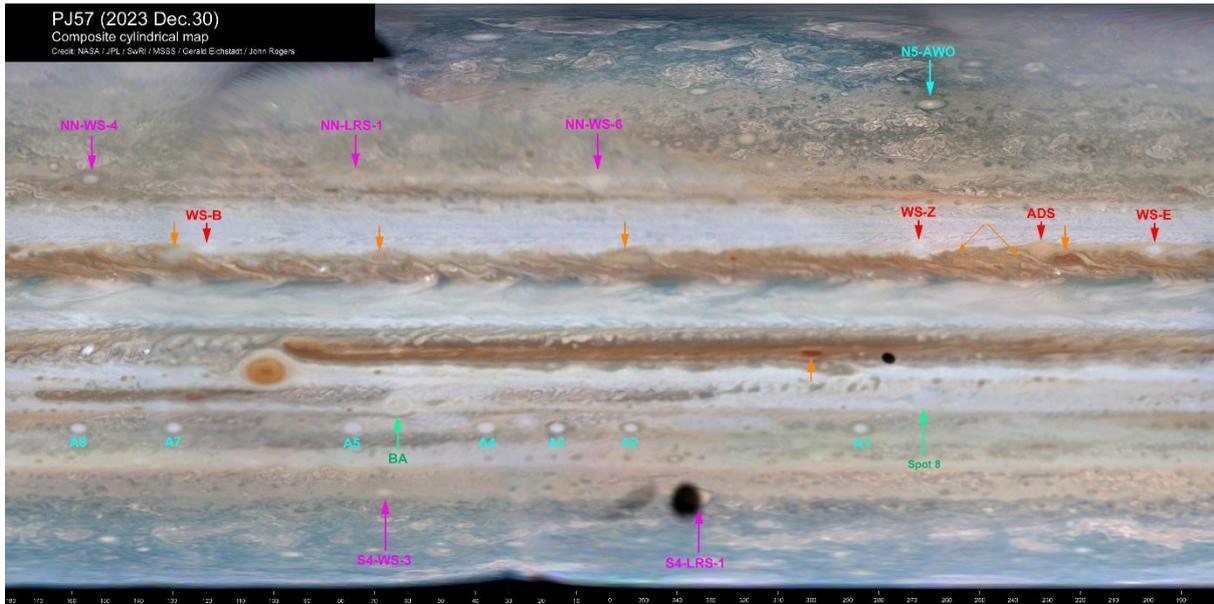
*Image 70:* first image after perijove, looking down on the south pole; note the dense pattern of haze bands visible on the terminator. The blue-green area is due to saturation as this is one of the outbound images given longer exposure in order to improve terminator detail.

*Image 101:* Final image, including shadows of Europa and Ganymede.

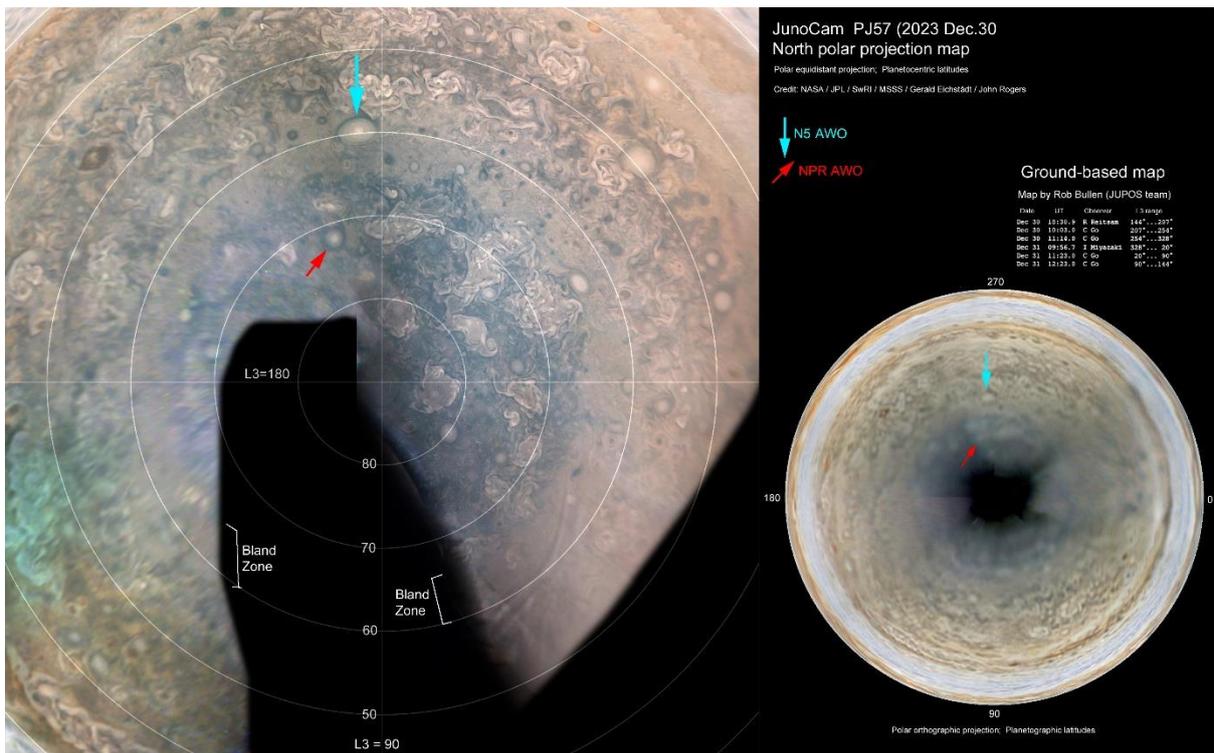


Images: NASA/JPL-Caltech/SwRI/MSSS 2023-12-30 11:23:33 Product ID: JNCE\_2023364\_57C00050\_V01 Image processing: Björn Jónsson

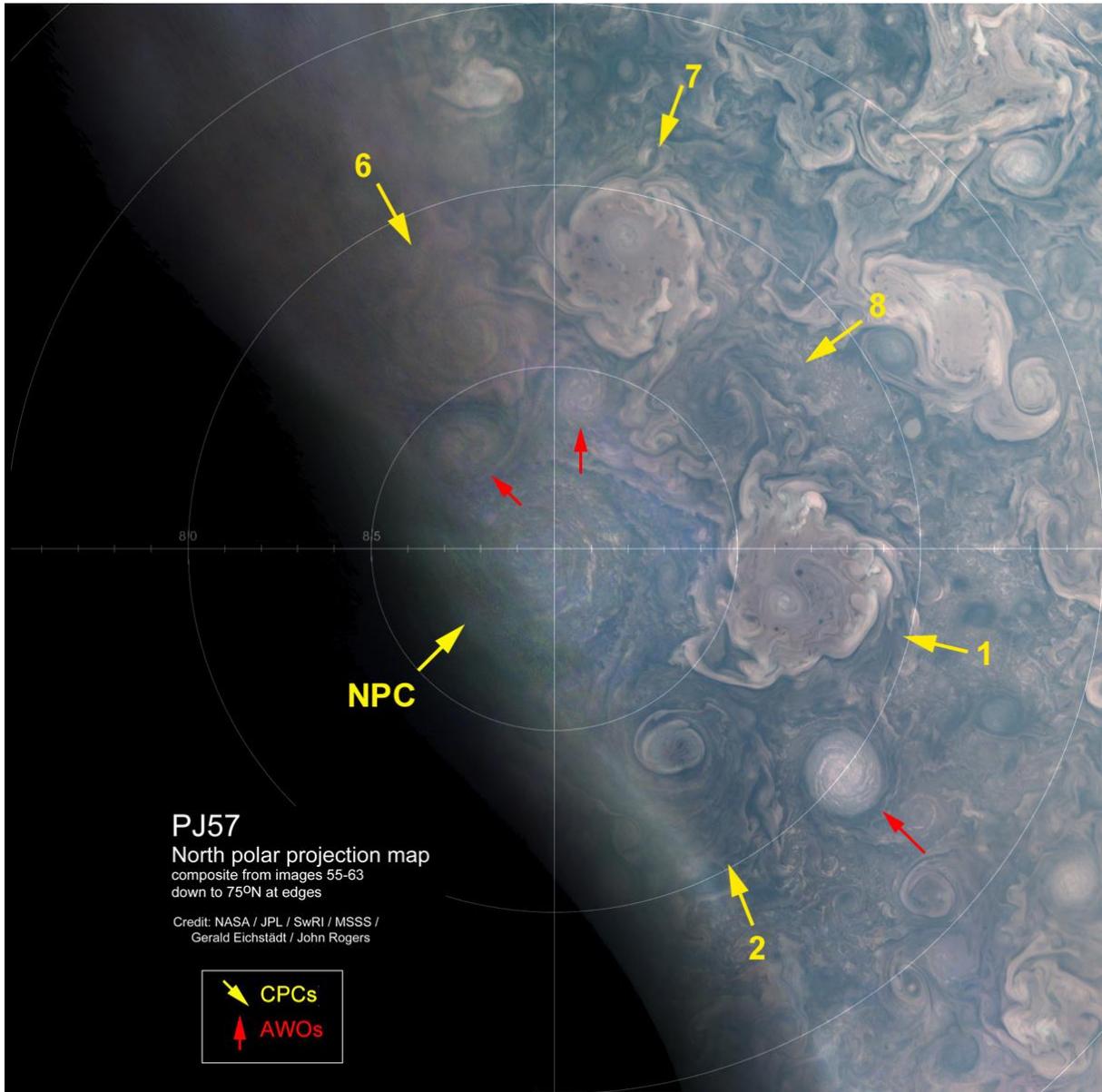
**Figure 2.** Image 50, processed by Björn Jónsson (with sharpening), showing important features in the NEB. (For a similar image that is unsharpened and labelled, see our *2023/24 Report no.4.*)



**Figure 3.** Global map from the PJ57 images, made by Gerald Eichstädt. This is mainly from inbound images, except the high southern latitudes from outbound images (including the shadow of Ganymede). Long-lived features are labelled; an unlabelled version is provided in the ZIP file. Orange arrows indicate barges, in the NEB and SEB, or faded barges.



**Figure 4.** North polar projection maps of the JunoCam and ground-based images. The best match between them is with Chris Go's images (L3 207-328) taken at the same time as Juno's approach.



**Figure 5.** North polar projection map down to 75°N showing the circumpolar cyclones (CPCs) and three AWOs (red arrows). This copy is at reduced resolution.

**Figure 6.** Excerpt from the north polar map at full resolution, showing CPC-1 and one AWO, from images 60 & 62.

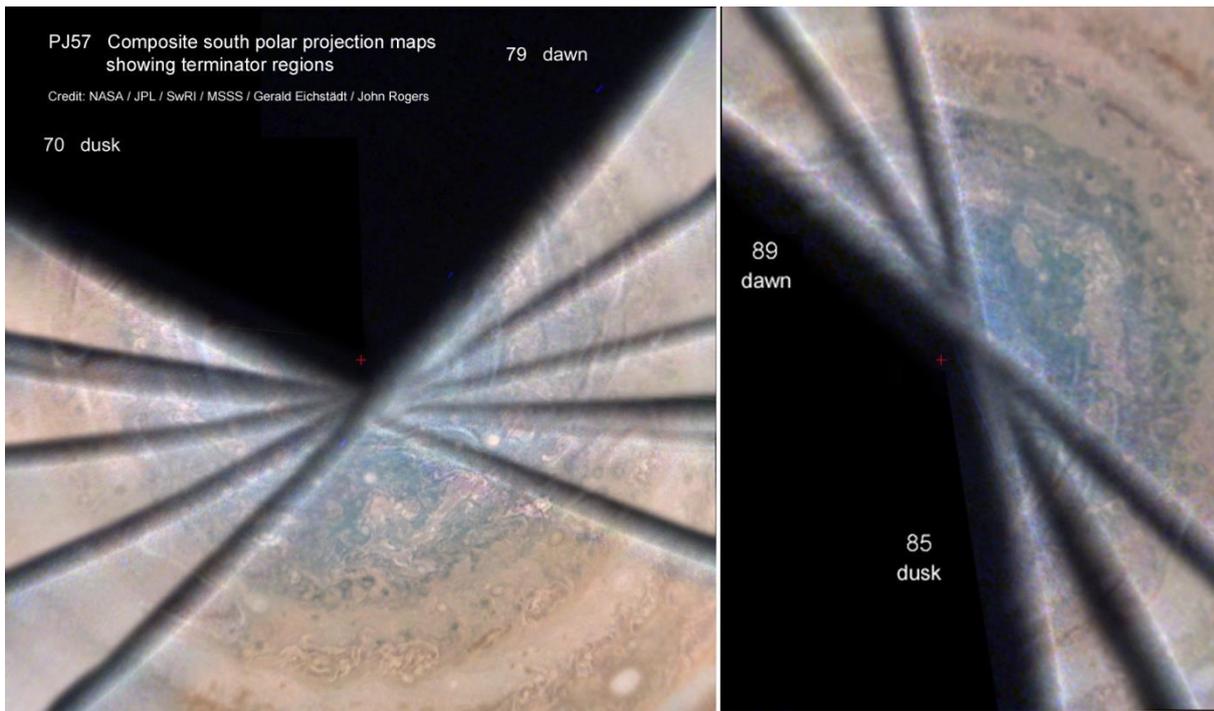


PJ57 Map  
Images 50&62

PJ57 South polar composite map, down to 45°S at edges (outbound images) Credit: NASA / JPL / SwRI / MSSS / Gerald Eichstädt / John Rogers

**Figure 7.** South polar projection map (Gerald Eichstädt's automated assembly.)





**Figure 8.** Composites of south polar projection maps emphasising the terminator regions, to show elevated haze structures.

**Figure 9.** Three south polar projection maps showing different aspects of the Long Band under different lighting. Arrows indicate its left and right portions. The central panel is from [Figure 8](#).

