Jupiter’s moon Io casts its shadow on Jupiter whenever it passes in front of the Sun as seen from Jupiter. Many pictures have been taken of Io’s shadow on Jupiter, but this is the first from such a close distance. The shadow looms extraordinarily large because the Juno spacecraft was just 13,600 km above the cloud tops. When seen from this close, the vast expanse of Jupiter curves away over the horizon, and Io’s shadow dominates the scene.

Citizen scientist Tanya Oleksuik created this enhanced color image from the JunoCam image taken at 10:54 p.m. EST during Juno’s 22nd close pass by Jupiter.