Southern Ring Nebula (cataloged as NGC 3132) captured by Webb’s Near-Infrared Camera (NIRCam, left) and Mid-Infrared Instrument (MIRI, right). We can now see rings of gas and dust expanding from the dimmer star at center as it loses mass. Tracing these ejections allows researchers to look into the history of the system. This nebula is roughly 2,500 light years away.

A far-flung location: The James Webb Space Telescope is stationary and located at the second Sun-Earth Lagrange point (L2), 1.5 million kilometers from Earth. Compare this to the Hubble Space Telescope, which orbits Earth at an altitude of about 570 kilometers.