

# NASA's Juno to soar closest to Jupiter this Saturday

August 26 2016

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This dual view of Jupiter was taken on August 23, when NASA's Juno spacecraft was 2.8 million miles (4.4 million kilometers) from the gas giant planet on the inbound leg of its initial 53.5-day capture orbit. Credit: NASA/JPL-Caltech/SwRI/MSSS

This Saturday at 5:51 a.m. PDT, (8:51 a.m. EDT, 12:51 UTC) NASA's Juno spacecraft will get closer to the cloud tops of Jupiter than at any

other time during its prime mission. At the moment of closest approach, Juno will be about 2,500 miles (4,200 kilometers) above Jupiter's swirling clouds and traveling at 130,000 mph (208,000 kilometers per hour) with respect to the planet. There are 35 more close flybys of Jupiter scheduled during its prime mission (scheduled to end in February of 2018). The Aug. 27 flyby will be the first time Juno will have its entire suite of science instruments activated and looking at the giant planet as the spacecraft zooms past.

"This is the first [time](#) we will be close to Jupiter since we entered orbit on July 4," said Scott Bolton, principal investigator of Juno from the Southwest Research Institute in San Antonio. "Back then we turned all our instruments off to focus on the rocket burn to get Juno into orbit around Jupiter. Since then, we have checked Juno from stem to stern and back again. We still have more testing to do, but we are confident that everything is working great, so for this upcoming flyby Juno's eyes and ears, our science instruments, will all be open."

"This is our first opportunity to really take a close-up look at the king of our solar system and begin to figure out how he works," Bolton said.

While the science data from the pass should be downlinked to Earth within days, interpretation and first results are not expected for some time.

"No other spacecraft has ever orbited Jupiter this closely, or over the poles in this fashion," said Steve Levin, Juno project scientist from NASA's Jet Propulsion Laboratory in Pasadena, California. "This is our first opportunity and there are bound to be surprises. We need to take our time to make sure our conclusions are correct."

Not only will Juno's suite of eight [science instruments](#) be on, the spacecraft's visible light imager—JunoCam will also be snapping some

closeups. A handful of JunoCam images, including the highest resolution imagery of the Jovian atmosphere and the first glimpse of Jupiter's north and south poles, are expected to be released during the later part of next week.

**More information:** More information on the Juno mission is available at: [www.nasa.gov/juno](http://www.nasa.gov/juno)

Provided by Jet Propulsion Laboratory

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