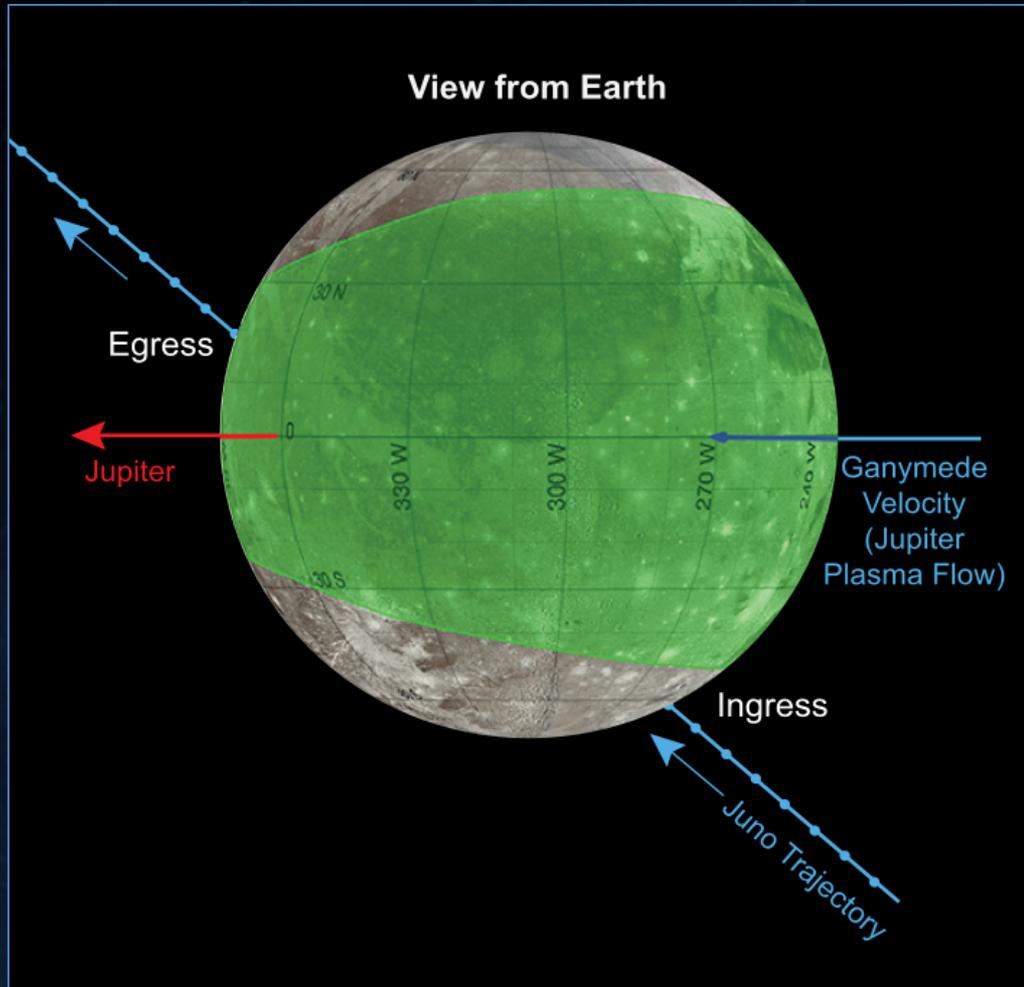


Ganymede's Ionosphere Detected by Juno



- Juno conducted a radio occultation experiment to search for Ganymede's ionosphere, the first to use Ka-band at Jupiter. Ka-band is a special frequency that improves accuracy and minimizes noise from interplanetary plasma.
- Analyses of the radio occultation data shows a detection of an ionosphere on occultation ingress and a non-detection on egress. The sensitivity was $\sim 500 \text{ cm}^{-3}$, the minimum volume density required to detect an ionosphere.
- Detection on ingress occurred where the magnetic fields are connected on one end to Jupiter's magnetosphere, where higher electron impact ionization rates may increase the electron density.