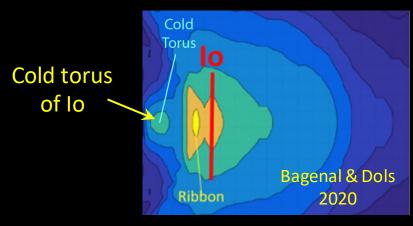
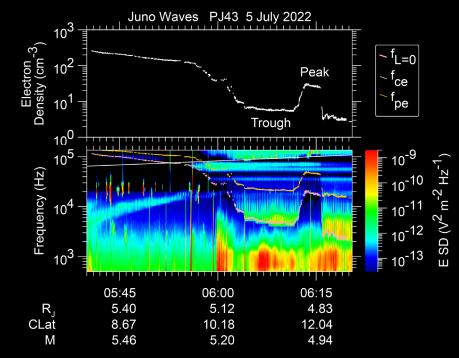


Juno Reveals a Surprising Feature of lo's Ethereal Cold Torus



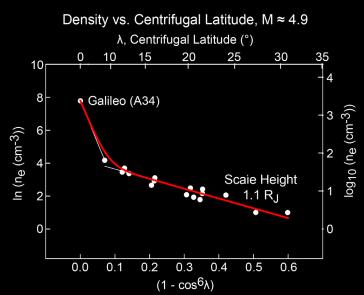


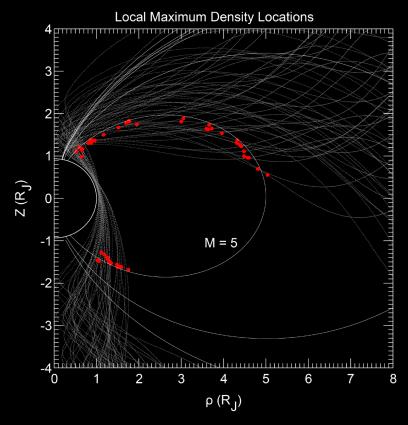
Juno Waves observes spectral features related to the plasma density



- Data from several mid-latitude crossings of the inner lo torus, provides density profiles with a significant new feature.
- The latitudinal extent of the feature, just inside the M=5 magnetic shell, is a substantial surprise.
- This feature is thought to be related to the 'cold torus' observed in optical observations of S⁺ from Earth.

The feature's ~1.1 _{RJ} scale height suggests a light ion component elevated by ambipolar forces.





W. S. Kurth, et al., in preparation