

# Magnetospheric mysteries at the Ice Giants

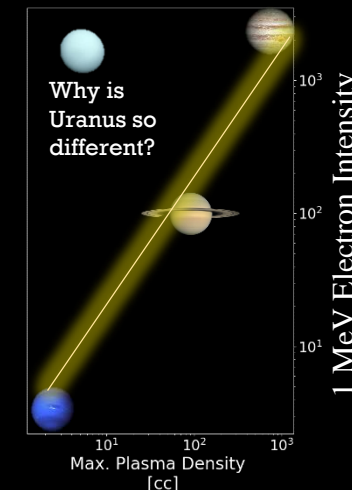
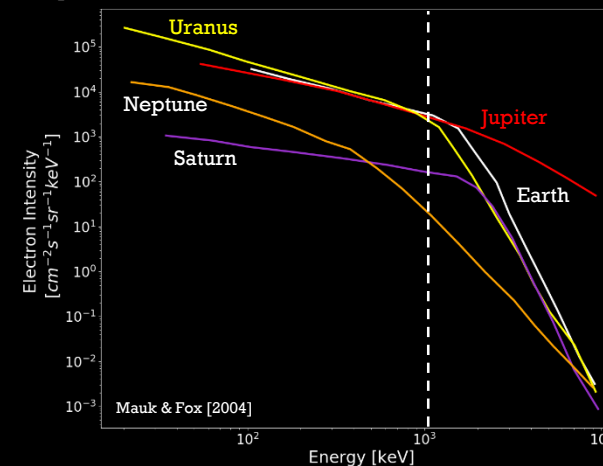
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**Mystery #1:** How are intense radiations belts sourced and sustained at the Ice Giants?

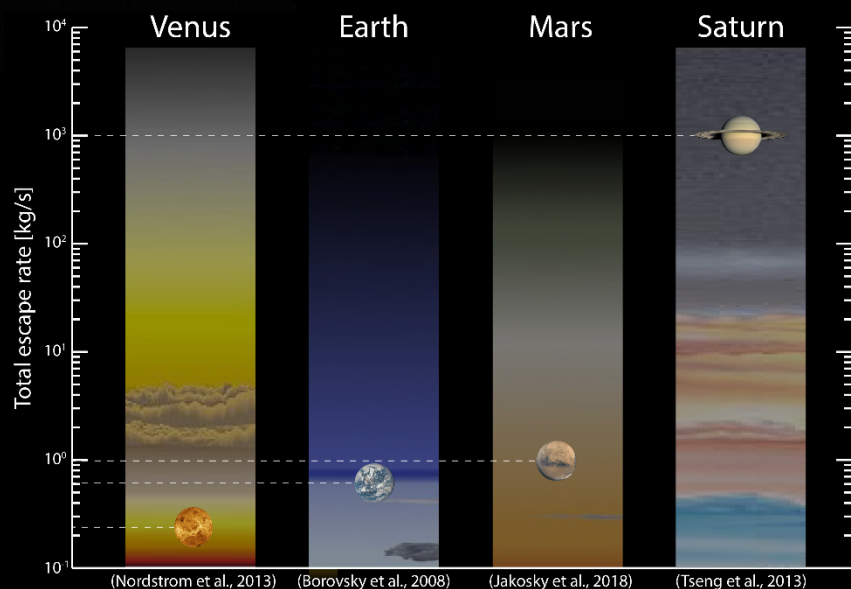
**Mystery #2:** Does the reorientation of a planetary magnetic field increase atmospheric escape rates?

**Mystery #3:** Why are the Ice Giant moons amongst the darkest surfaces in the solar system? Is it due to weathering from magnetospheric plasma?

## Mystery #1

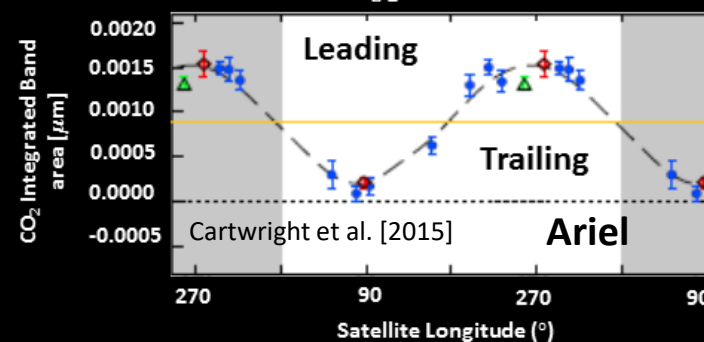


## Mystery #2



## Mystery #3

Asymmetries in the CO<sub>2</sub> distribution may be due to the ion/electron bombardment driving radiolytic CO<sub>2</sub> production



Credit: The Planetary Society

