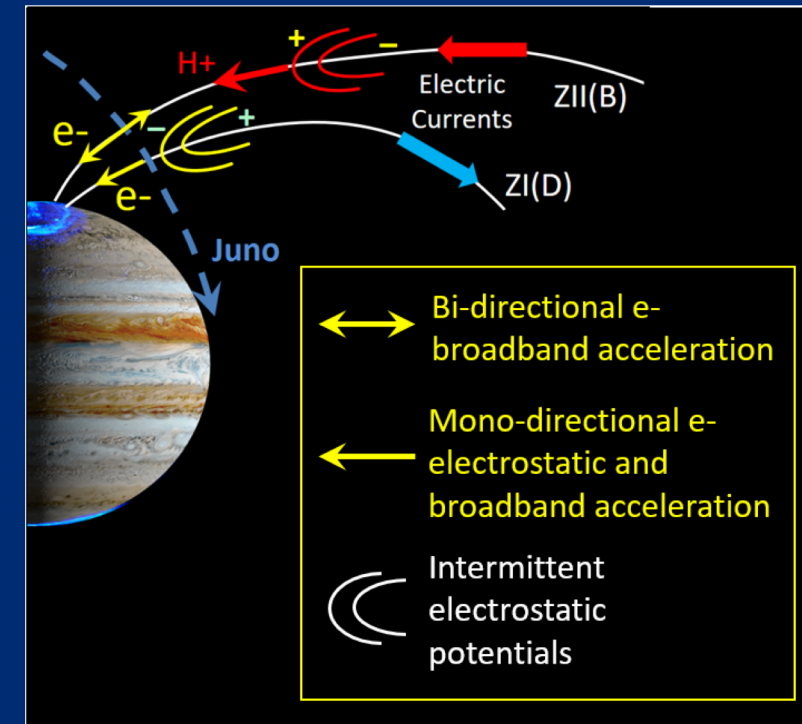
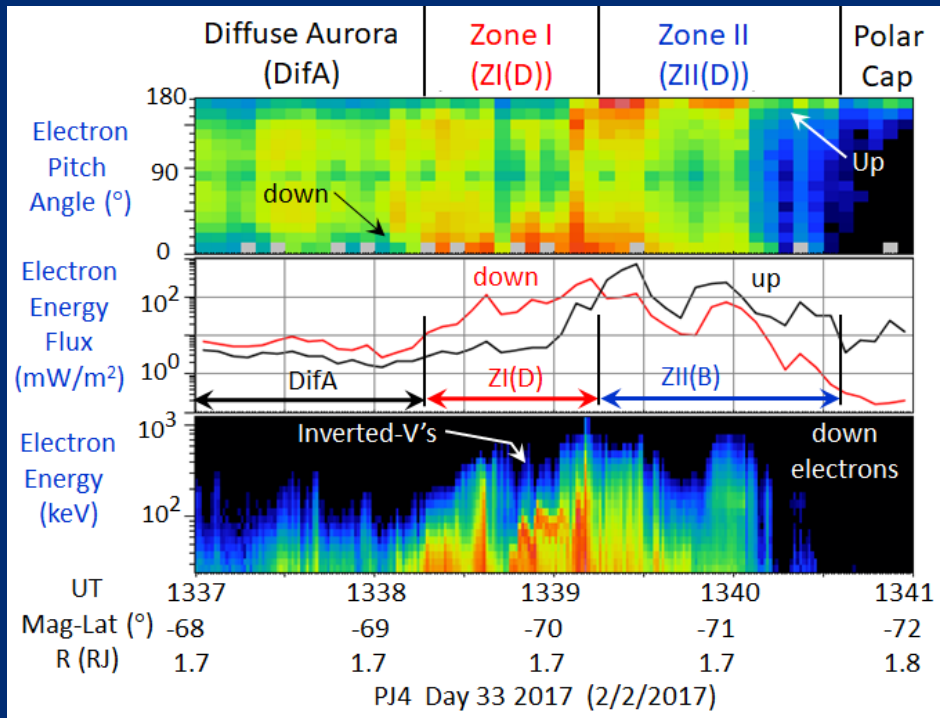


# Juno identifies three distinct auroral acceleration zones at Jupiter

The three regions are:

- 1) Low latitude Diffuse Aurora (DifA): trapped electrons ( $e^-$ ) scatter onto atmosphere.
- 2) Zone-I of downward  $e^-$  acceleration (ZI(D)), sometimes with downward electron inverted-V's with  $e^-$  electrostatic acceleration as high as 400 kV
- 3) Zone-II of bi-directional acceleration (ZII(B)), sometimes with downward ion inverted-V's showing downward proton ( $H^+$ ) electrostatic acceleration as high as 400 kV



It is greatly surprising that Zone-I and Zone-II can generate equally intense auroral emissions, contrary to expectations from Earth