

Jupiter's Auroral Morphology: X-Ray and UV Emission Associated with Energetic Particles
Observed by Juno-JEDI.

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Equipped with state-of-the art instrumentation the polar orbiting Juno spacecraft has accomplished 19 crossings of Jupiter's auroral region at the time of writing. Providing better than 30-degree longitudinal and local-time resolution Juno has simultaneously measured particles precipitating into and light emitted from Jupiter's polar regions. By correlating incident energetic particle precipitation (electrons, Oxygen and Sulphur) with spectral observations at different wavelengths we can test if the source regions of Jupiter's bright, variable and complex aurora are consistent with production by precipitating particles. In this presentation we compare precipitating ion and electron fluxes from Juno-JEDI with Chandra HRC-1, XMM-Newton and Juno-UVS measurements.