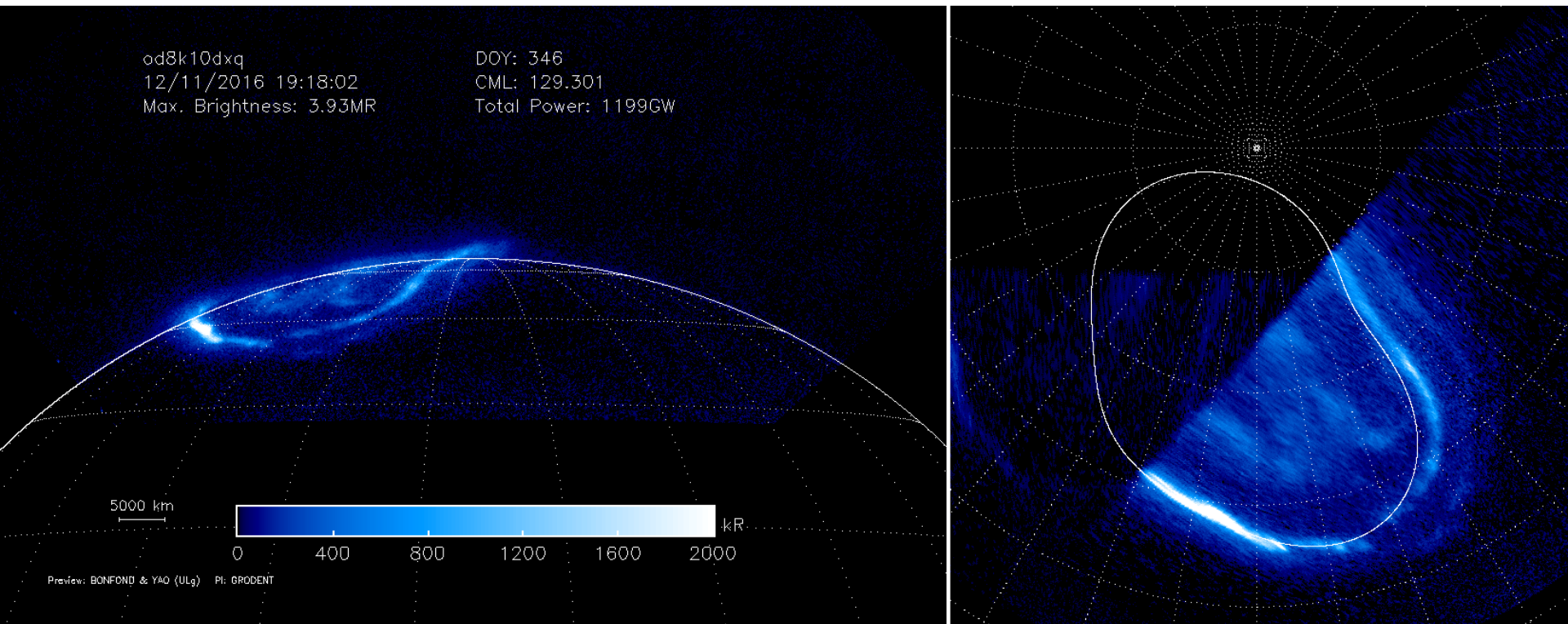
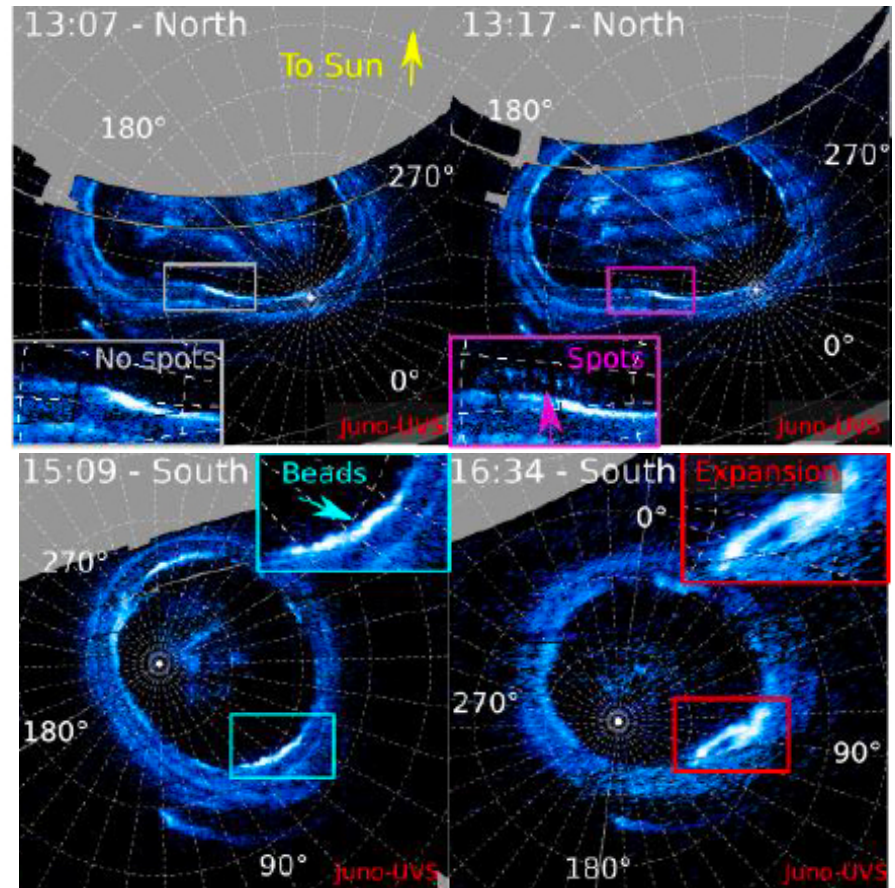
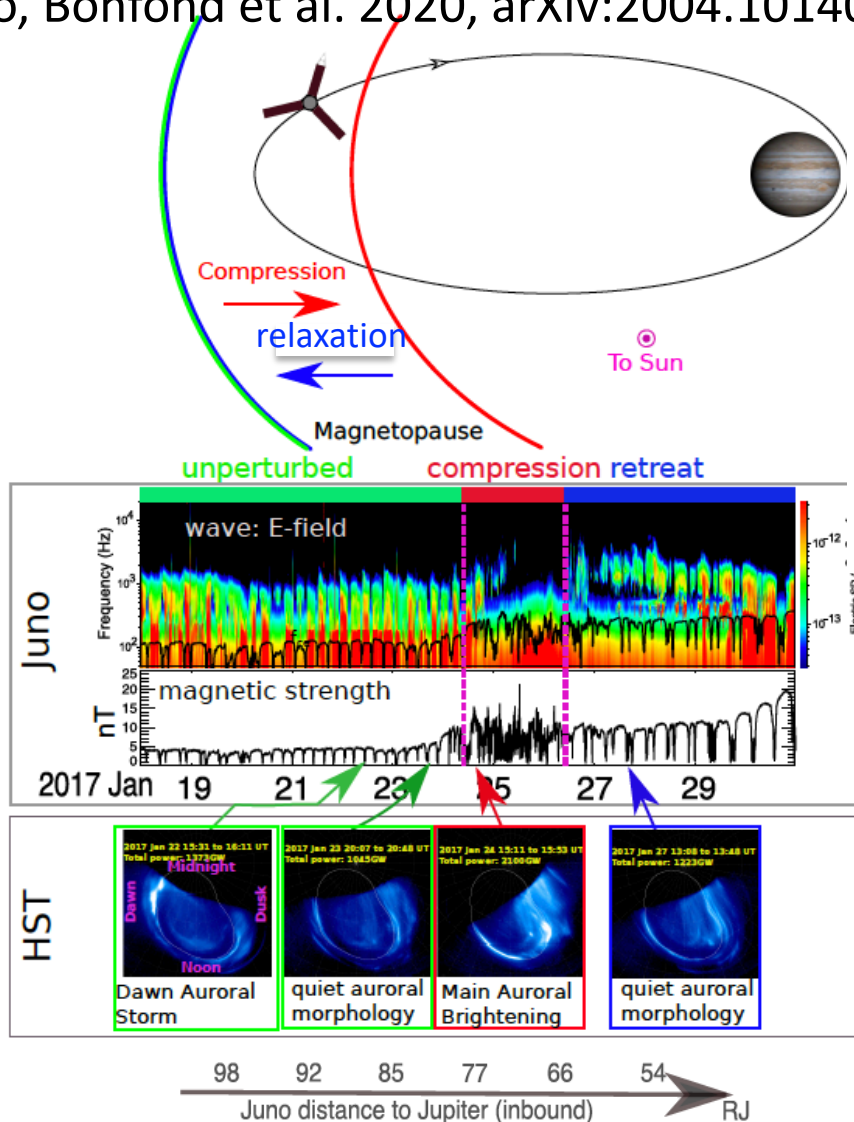


**2016-now:** more than 200 HST visits are obtained, providing an unprecedented opportunity to study Jovian aurora with **simultaneous measurements**.



## Two key questions:

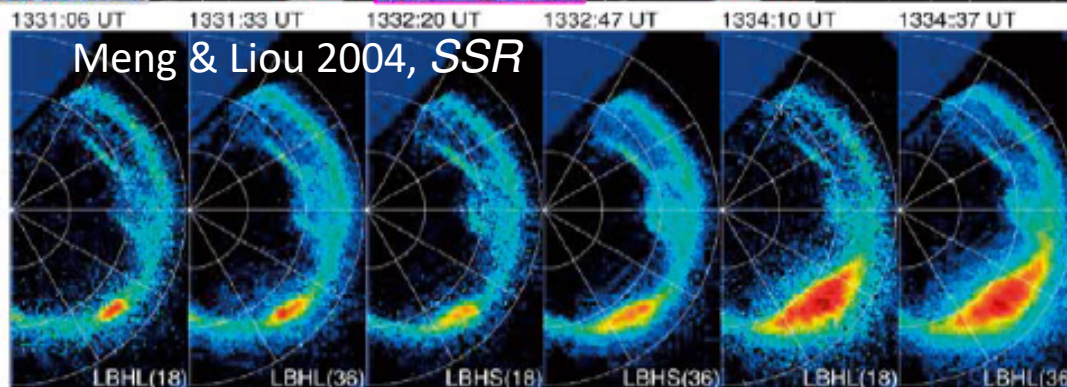
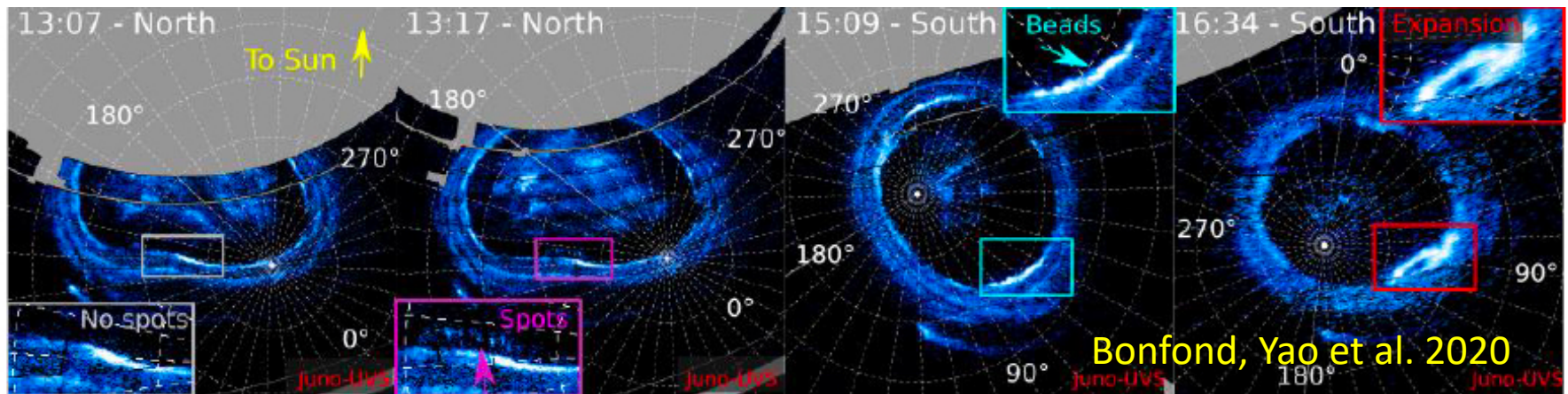
- what mechanisms drive the main aurora?
- Is the night the same as the dayside feature?



- Solar wind compression enhances the main aurora
- Near-noon aurora is enhanced but not dimmed during a compression

- Auroral dawn storm is initiated from midnight poleward boundary
- Beads and poleward auroral spots are discovered at the dawn storm initiation

# Fundamental processes for energy dissipation?



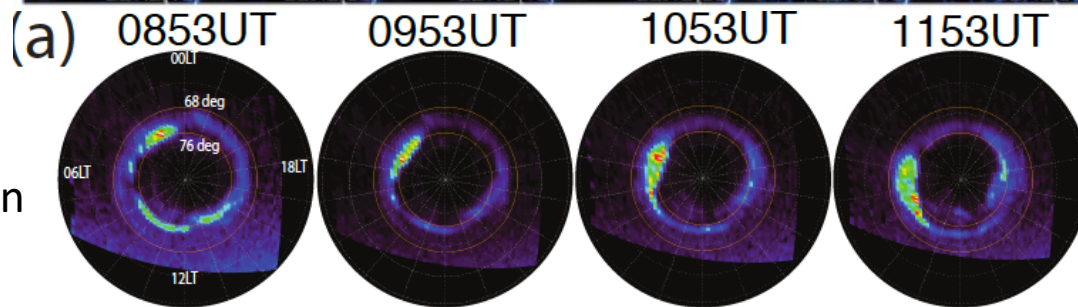
Meng & Liou 2004, SSR

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Yao et al. 2018, JGR