

Polarization of Type III Radio Bursts

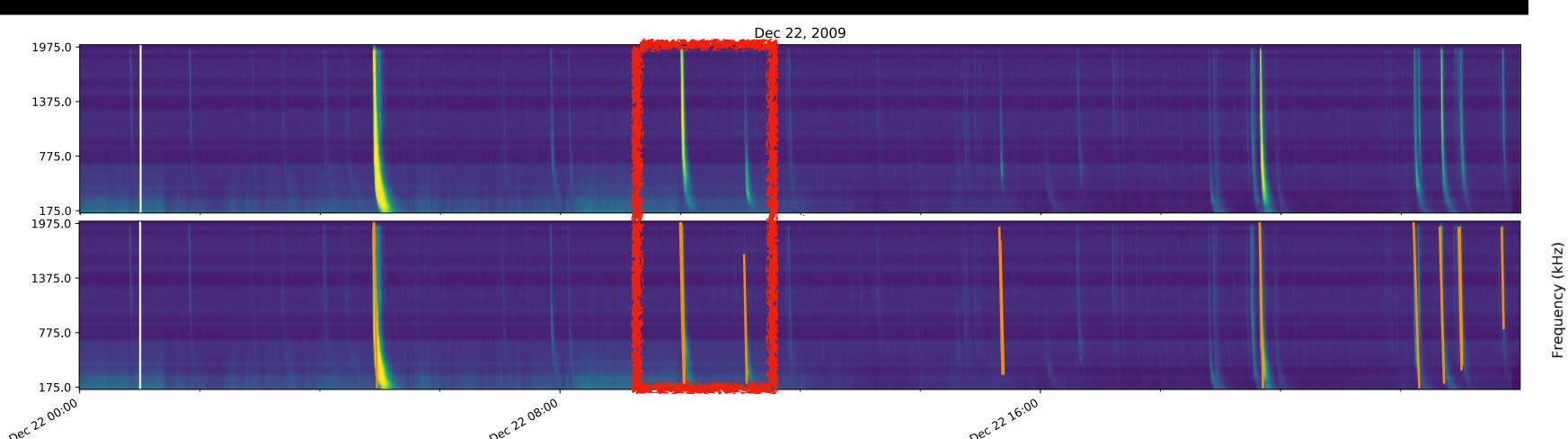
Vratislav Krupar

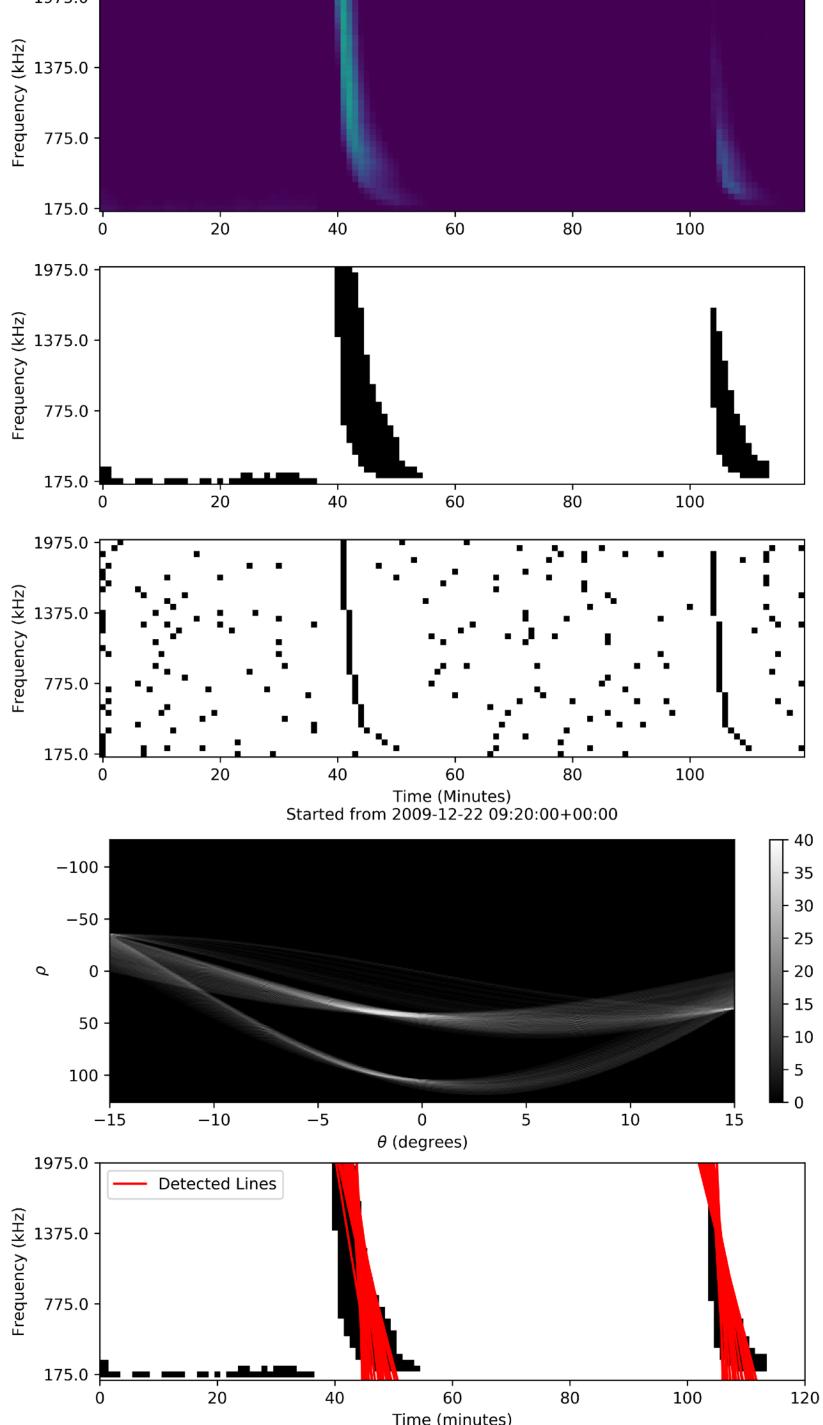


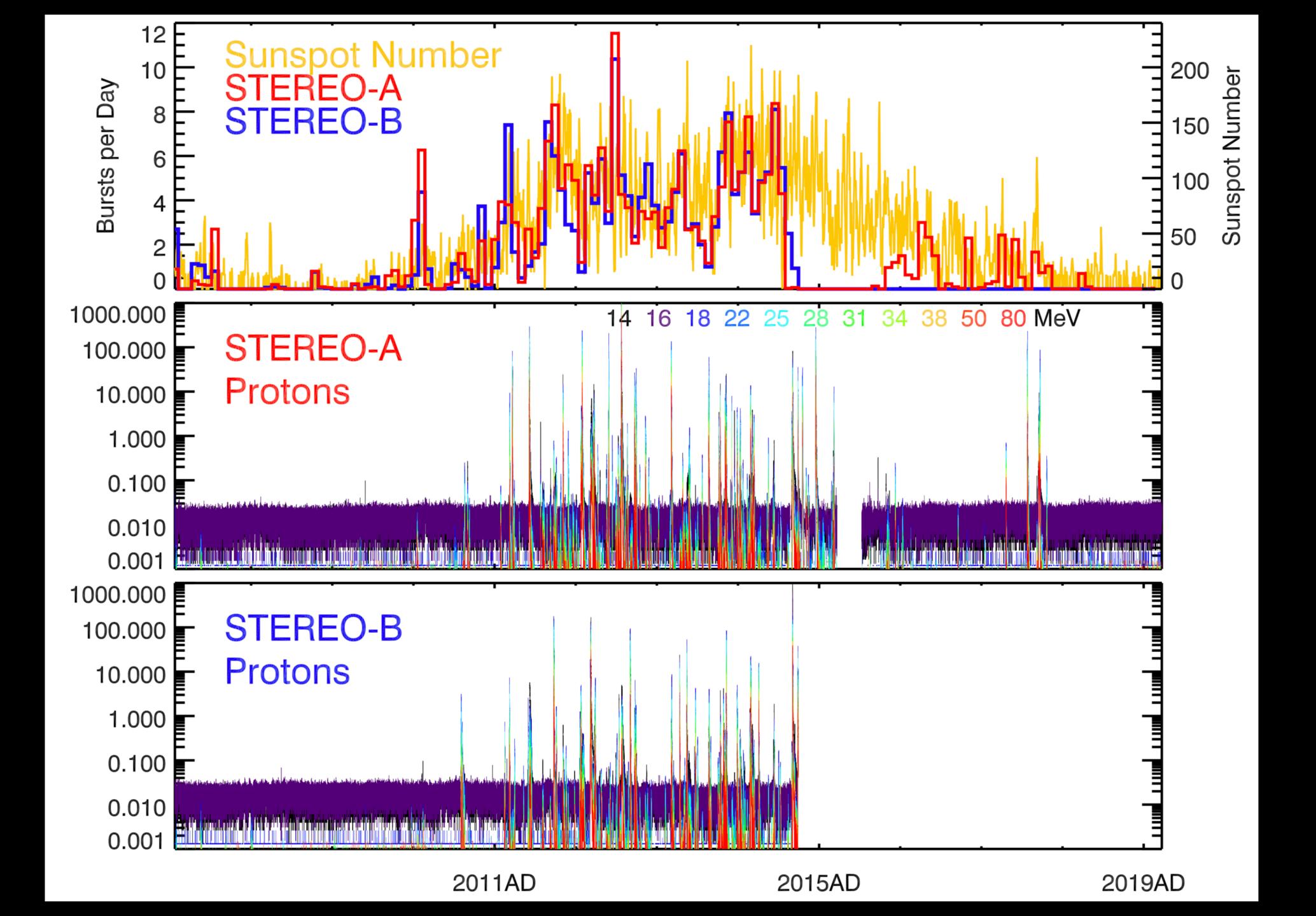
Nov. 30, 2021

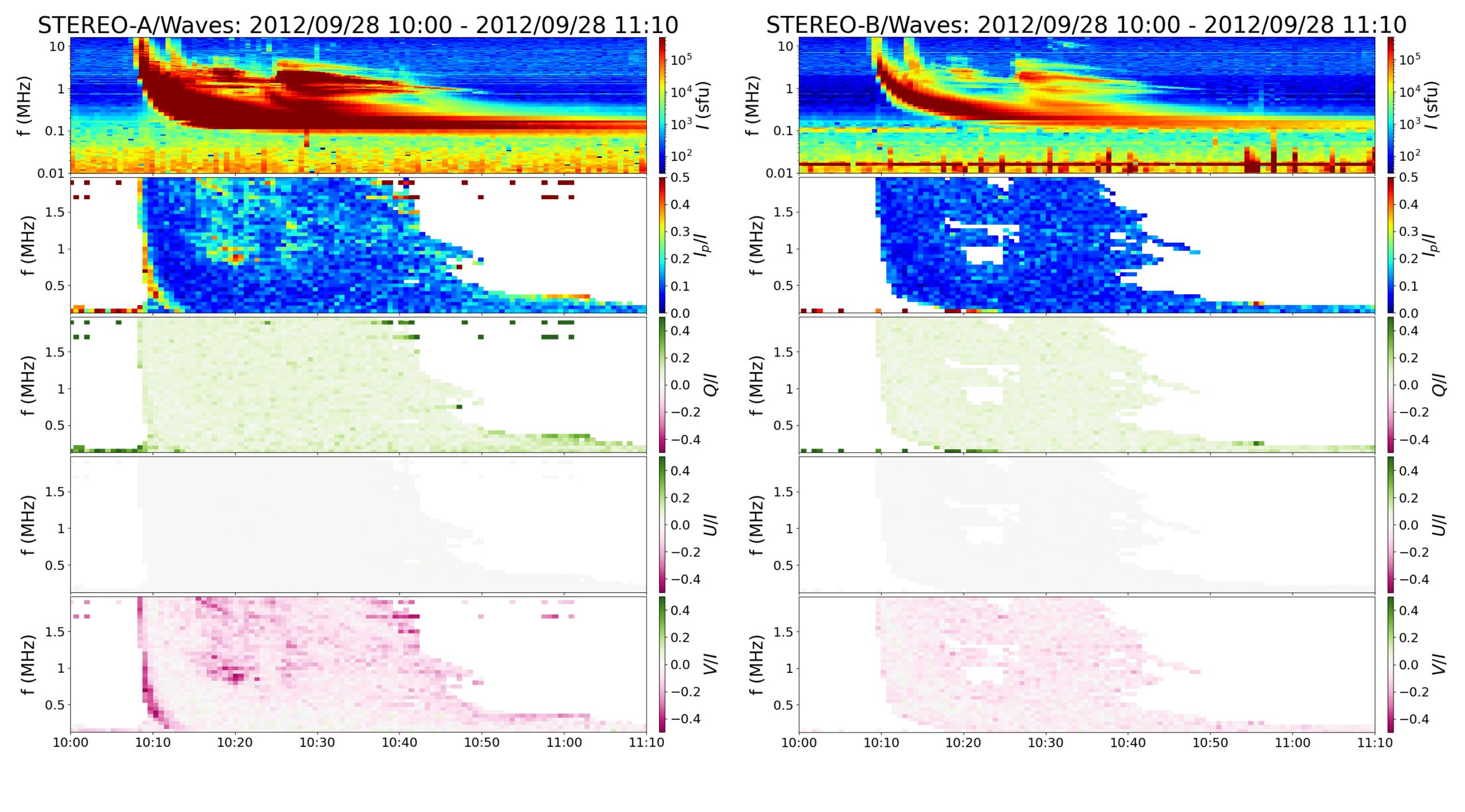
Automated type III burst detection for STEREO

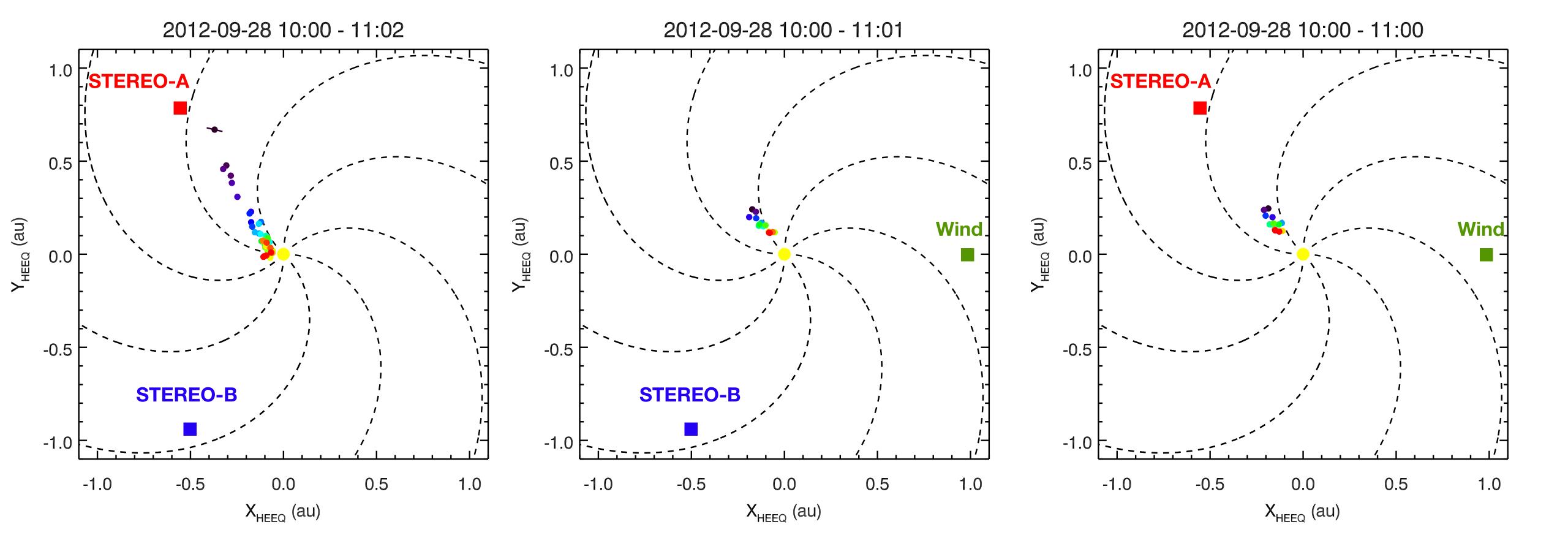
- Nearly continuous radio measurements since 2006
- A large number of radio emissions covering three solar cycles
- The Hough transform -> detection and recognition of line segments on the binarized and cleaned spectrum images
- Inspired by application of **Zhang et al.** (2018, A&A) to ground-based radio measurements

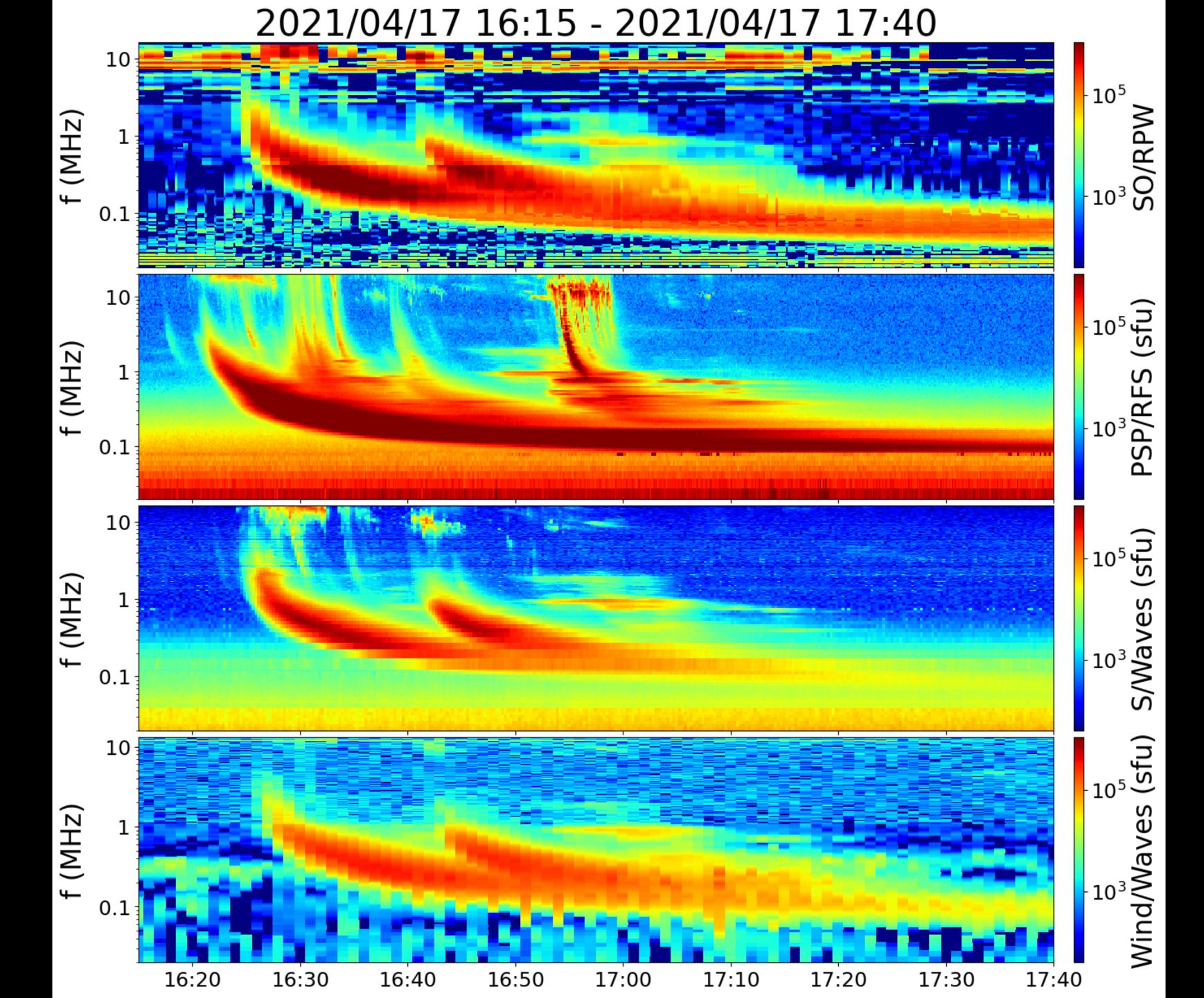


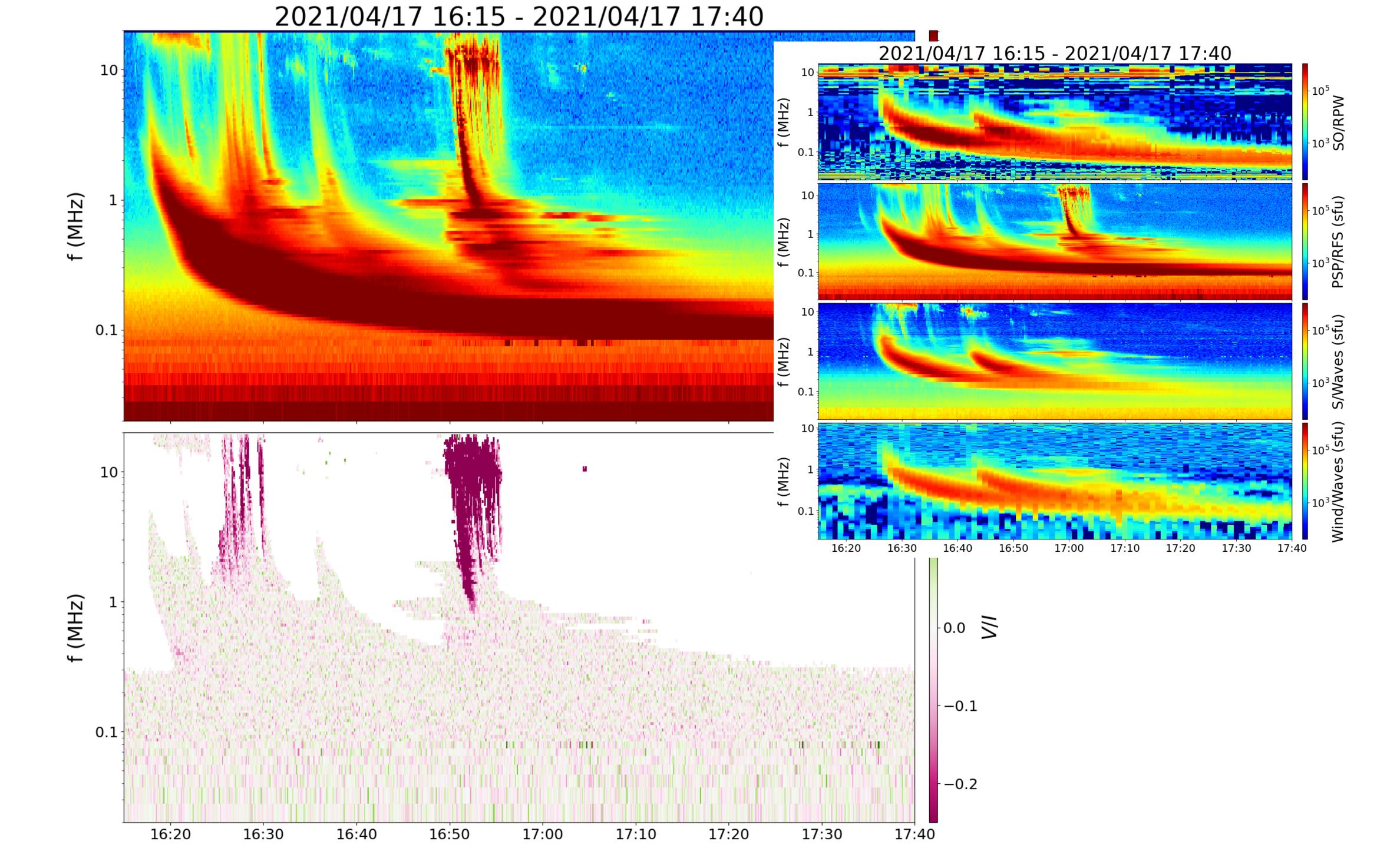


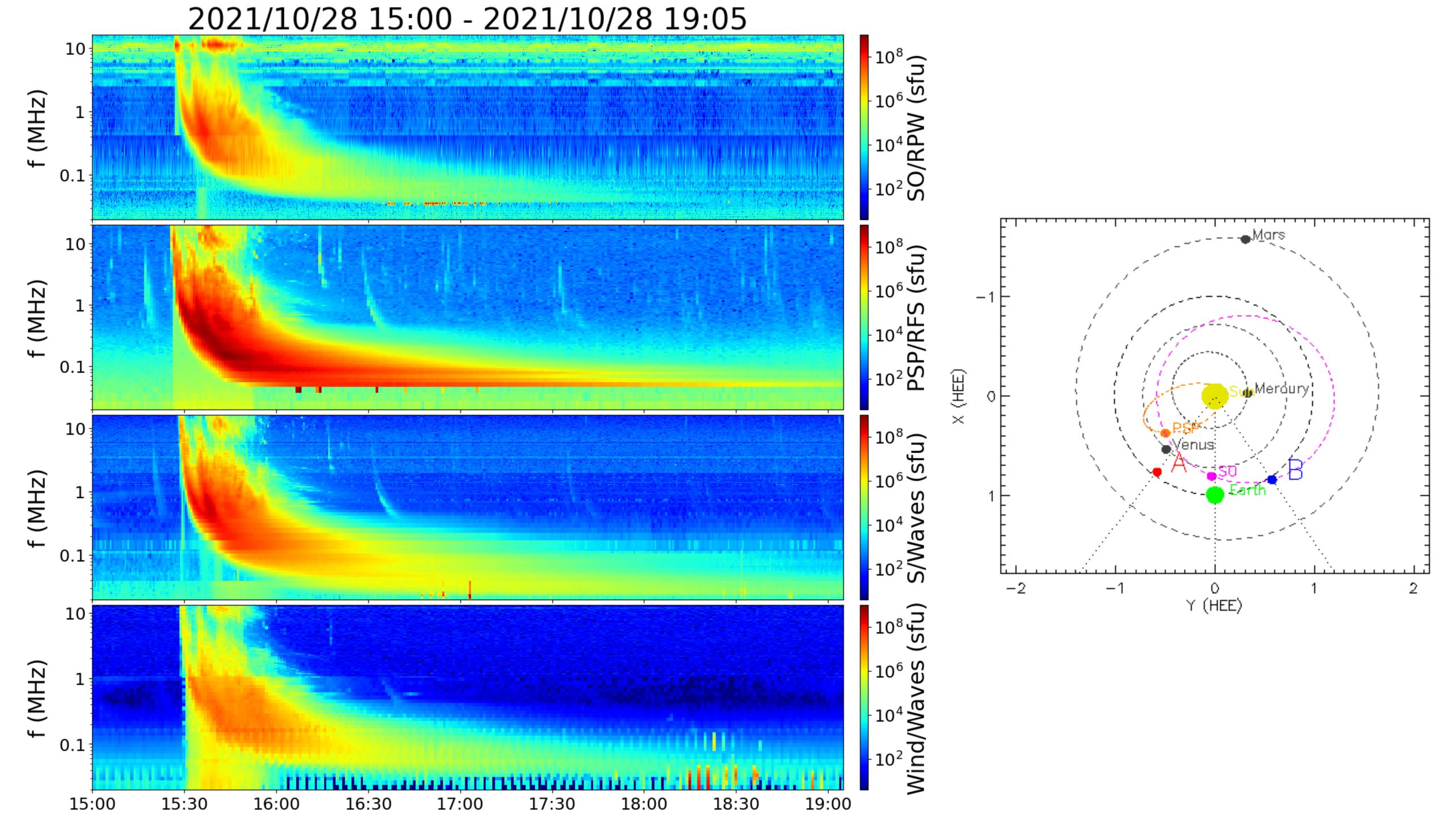


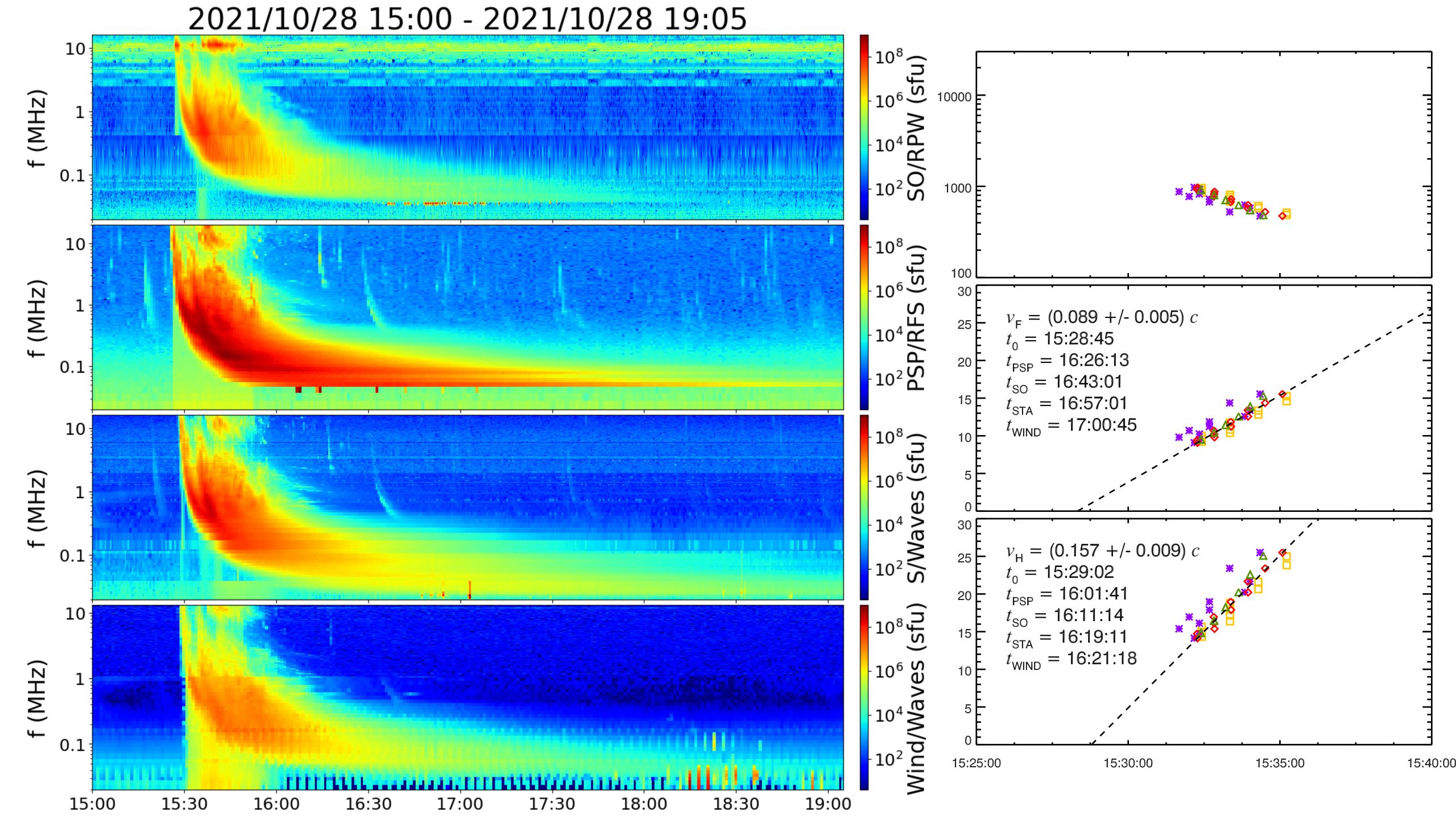


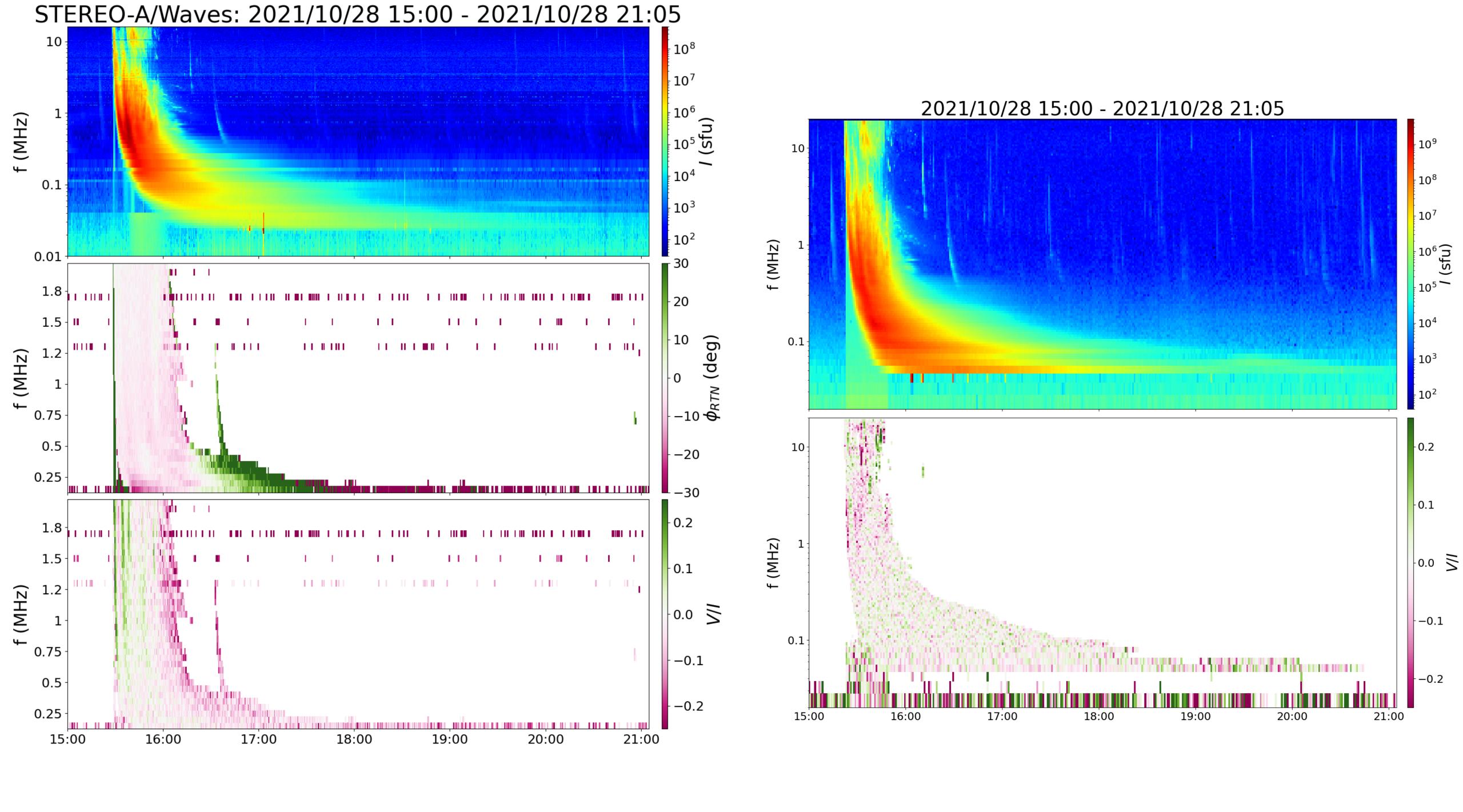




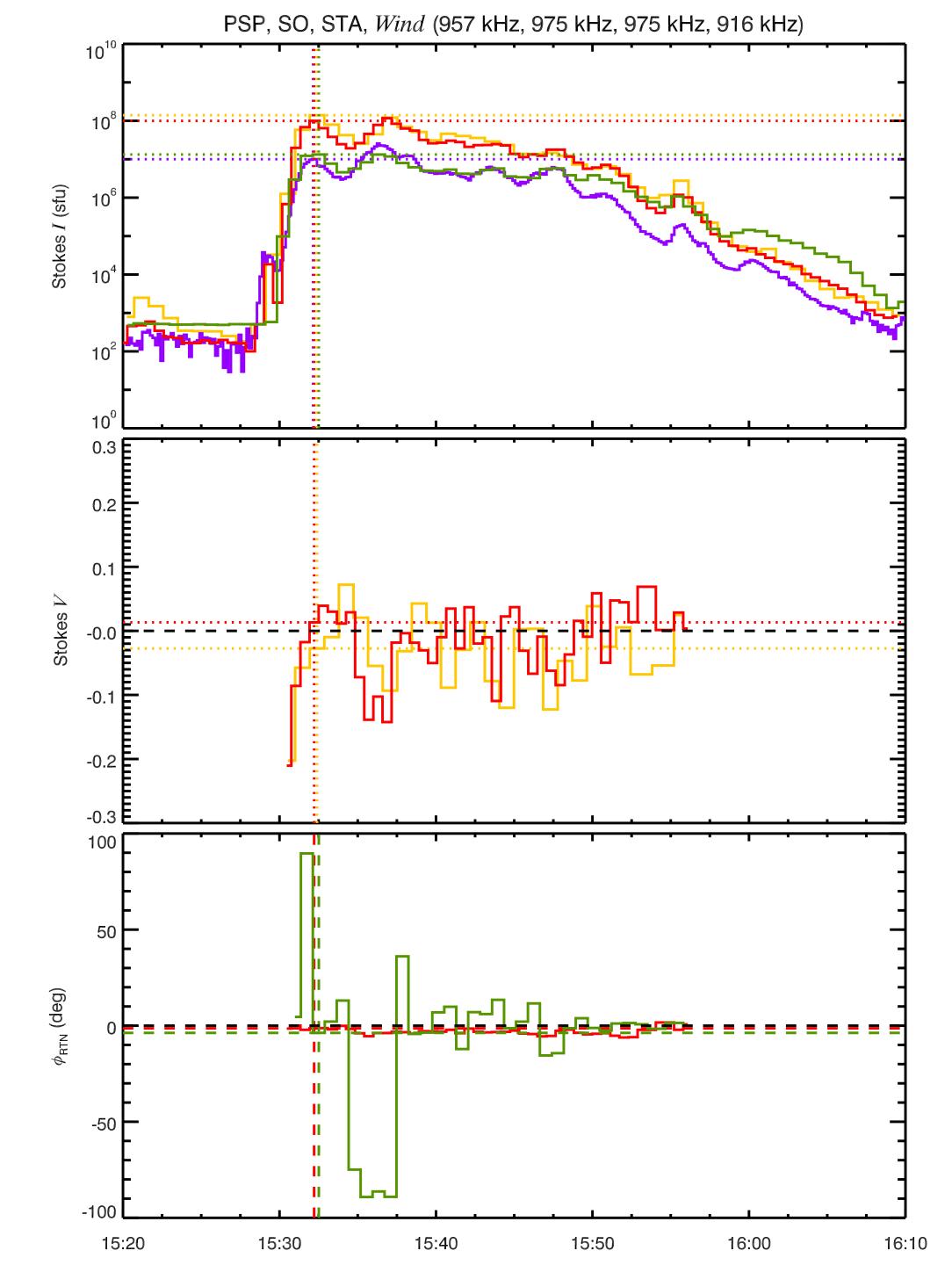




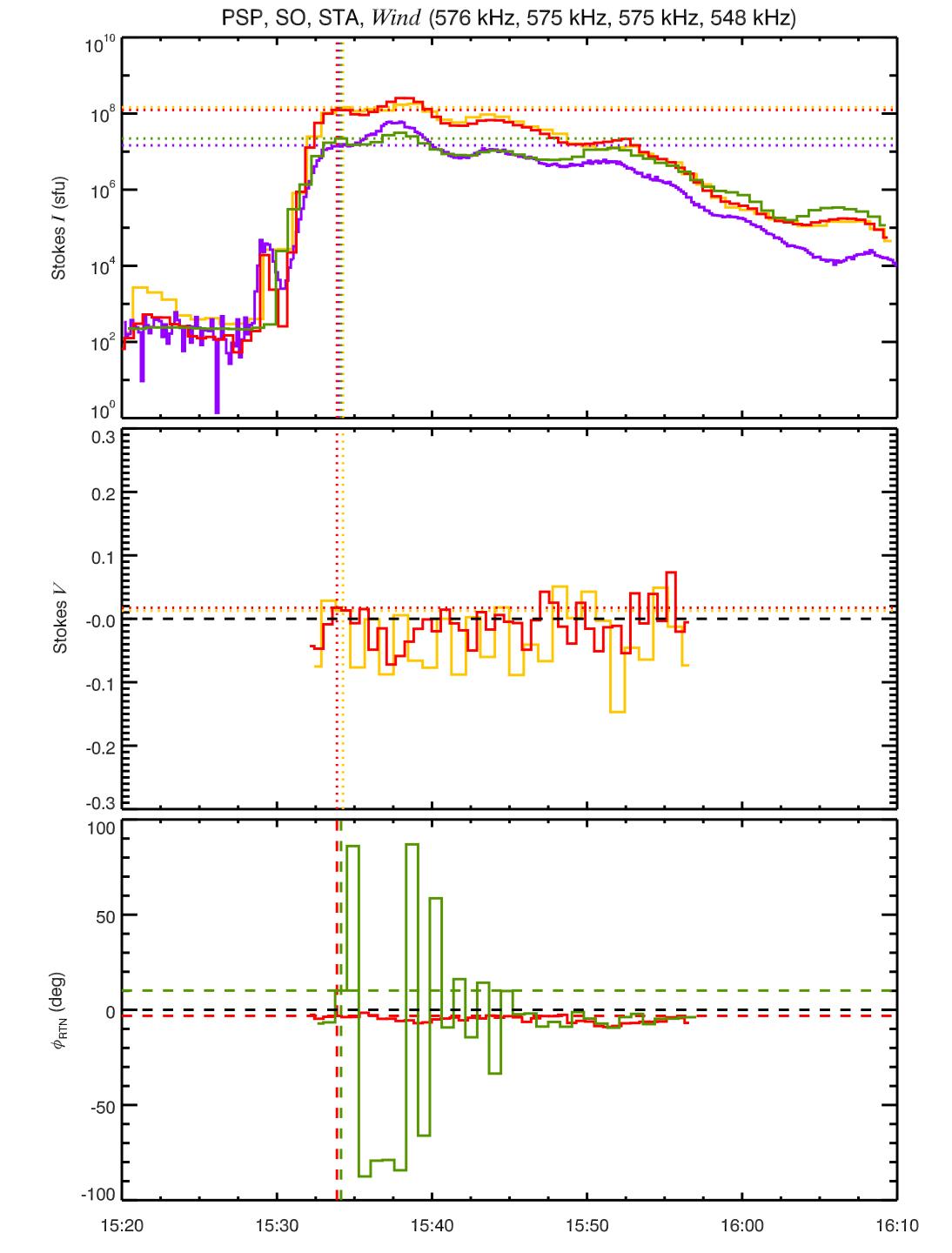




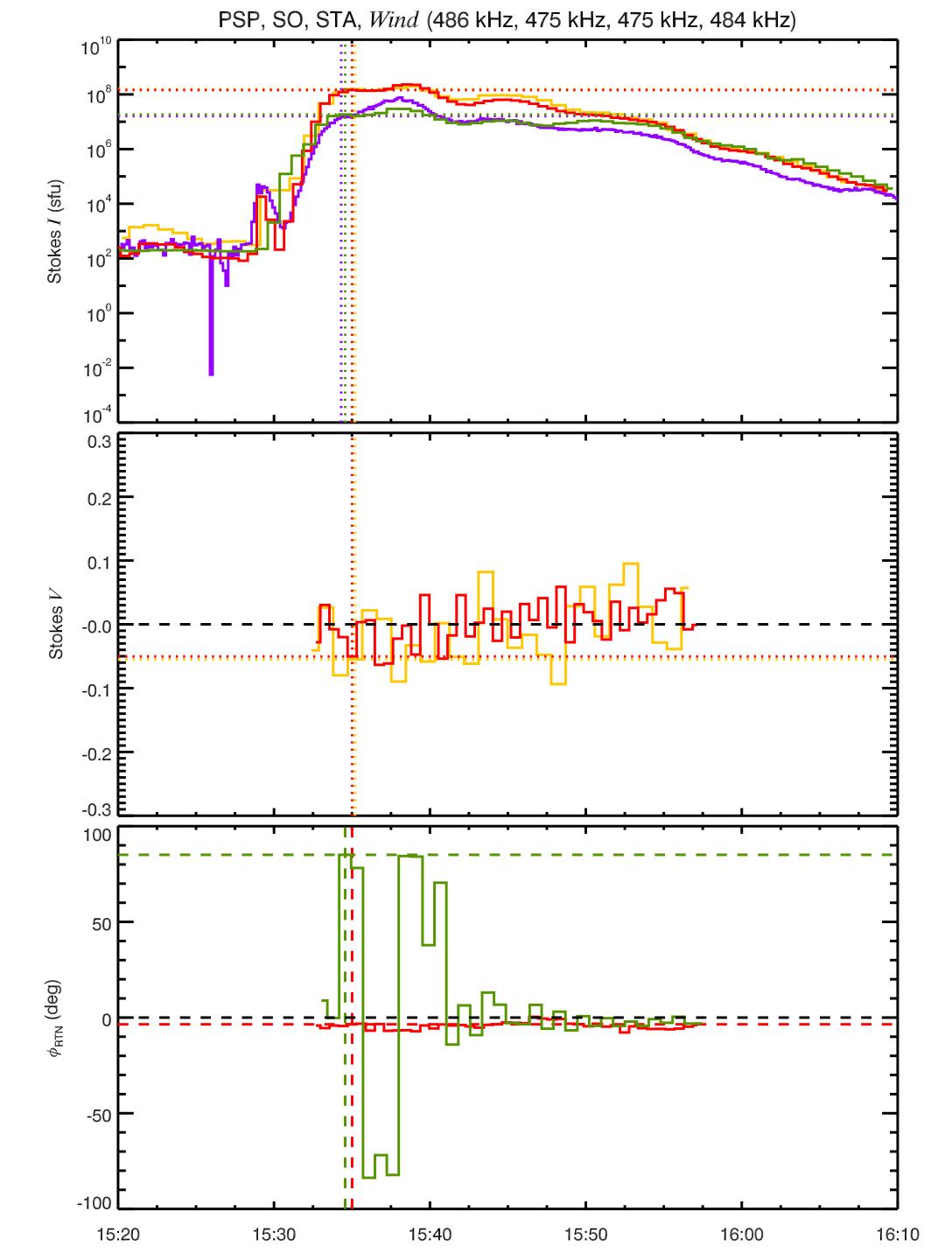
1,000 kHz



600 kHz



500 kHz



200 kHz

