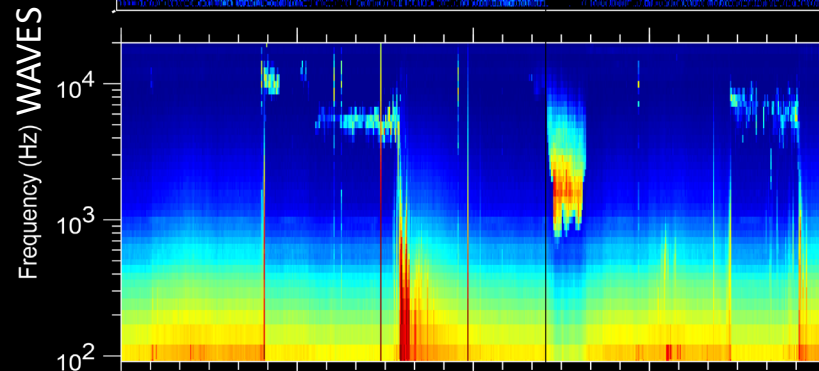
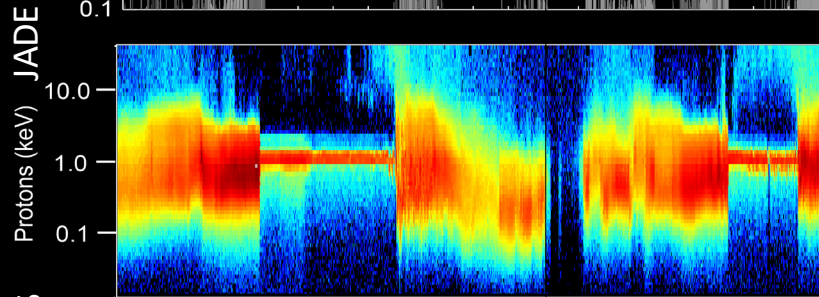
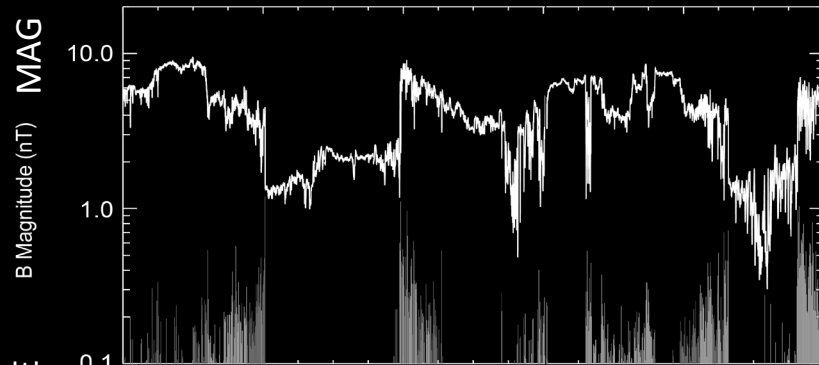




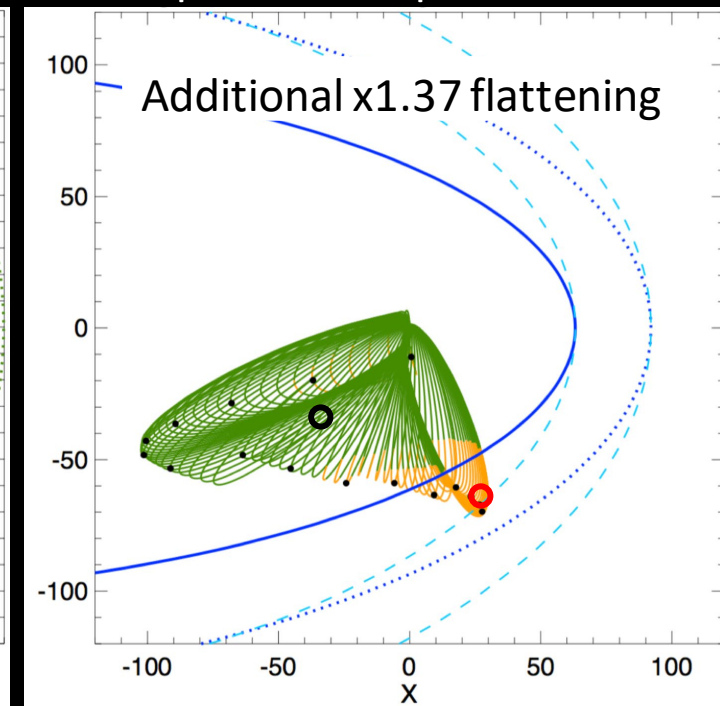
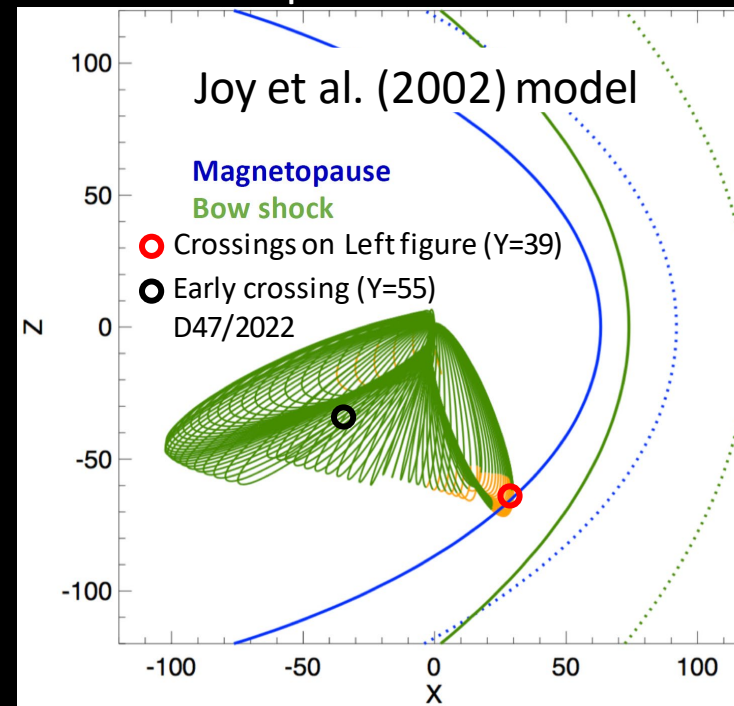
# Jupiter's polar magnetospheric boundaries are often closer than expected



2024-09-06 (250)

- Juno has more and earlier crossings of the magnetopause (MP; and even the bow shock; BS) than expected.
- Early crossings occurred well inside of orange regions in the plots below (MP and BS lines are for  $Y = 0$ . Colors take  $Y$  into account).
- High quality of MP crossings data will allow us to address the nature of these never-before-seen regions.

## Pre-Extended-Mission Proposal Expectations (Orange = outside MP) Expectation Exploration of possibilities



W. S. Kurth, R. W. Ebert, J. E. P. Connerney, M. F. Vogt