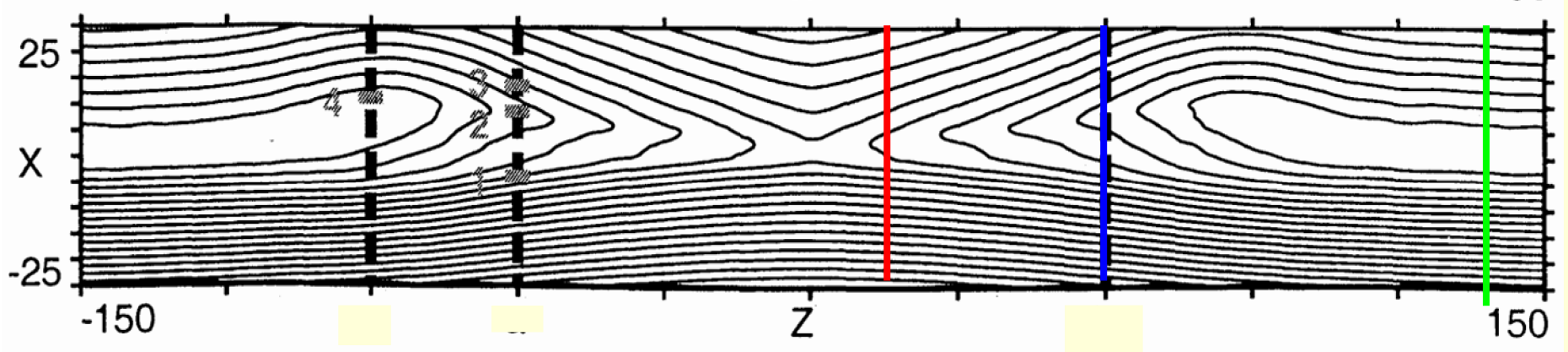


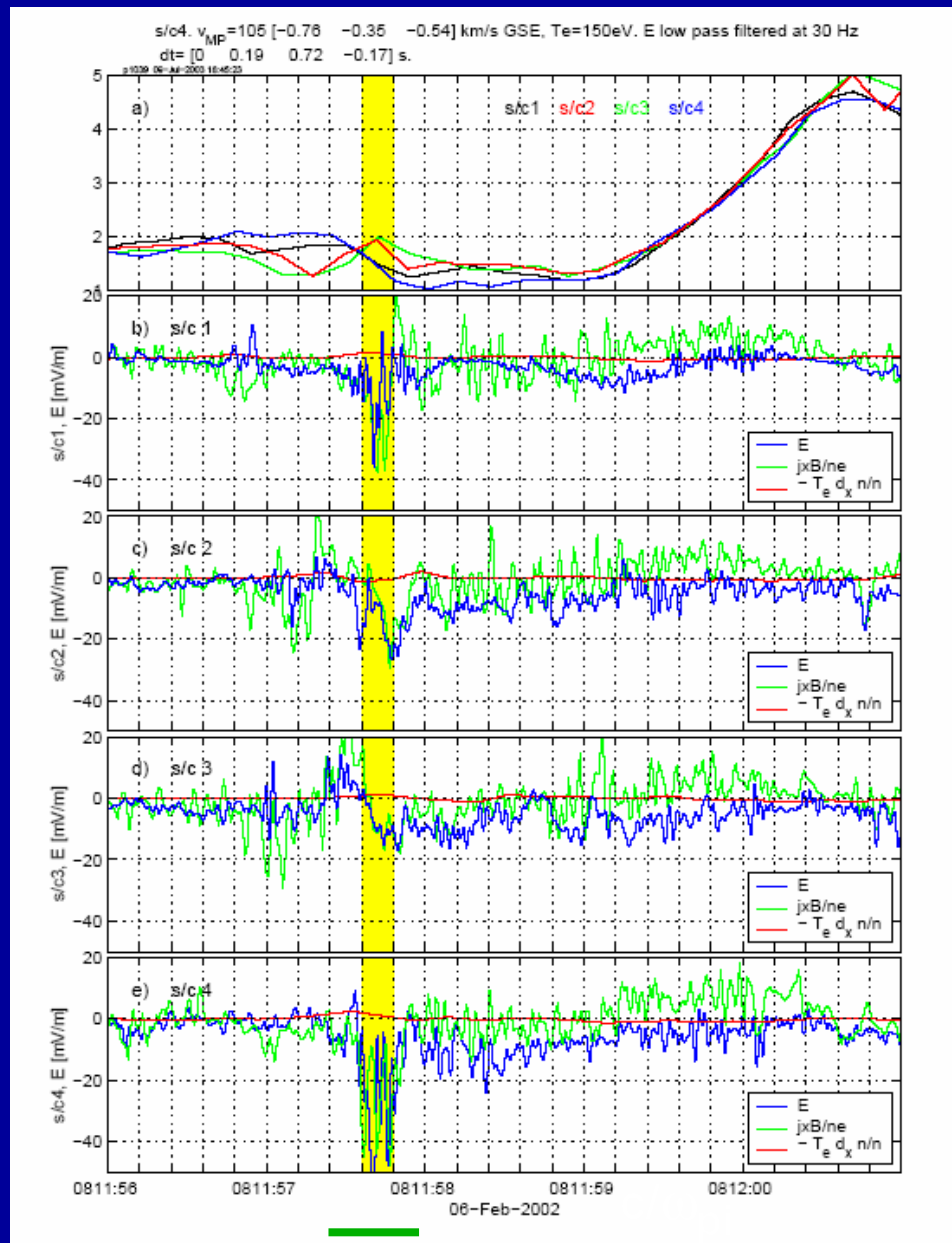
Reconnection and Finestructure at the Magnetopause

M. André

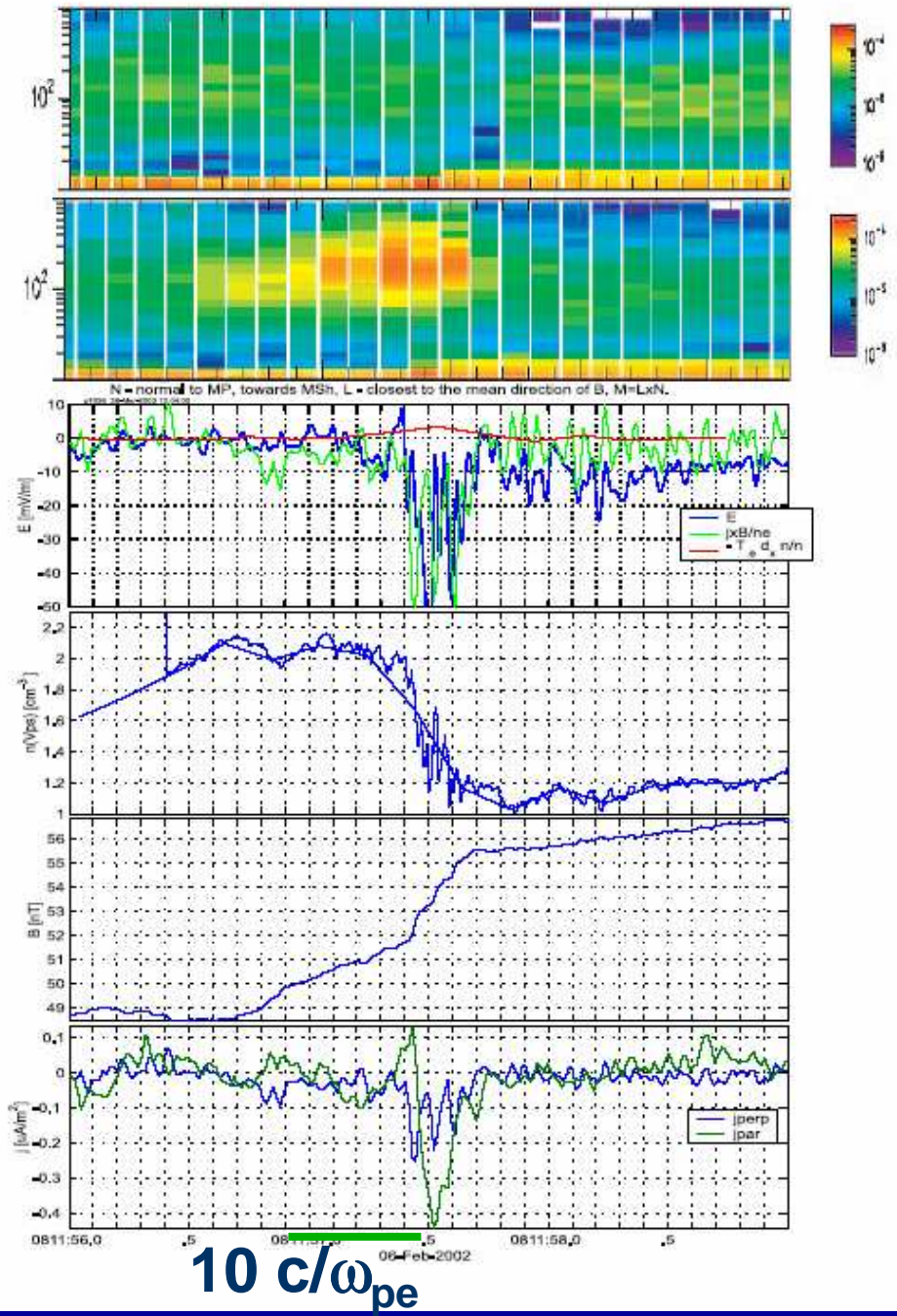
EFW, CIS, DWP, FGM, PEACE,
STAFF, WBD, WHISPER

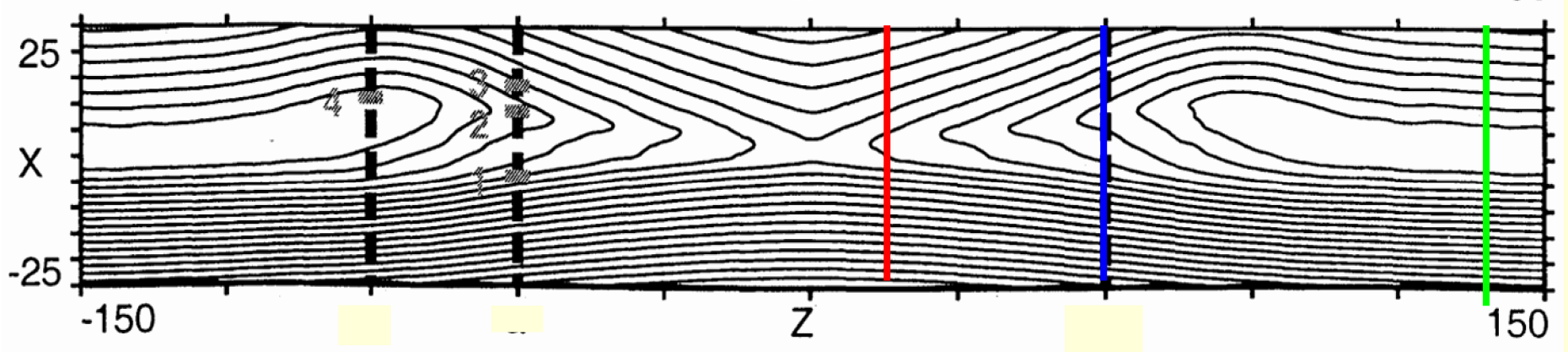


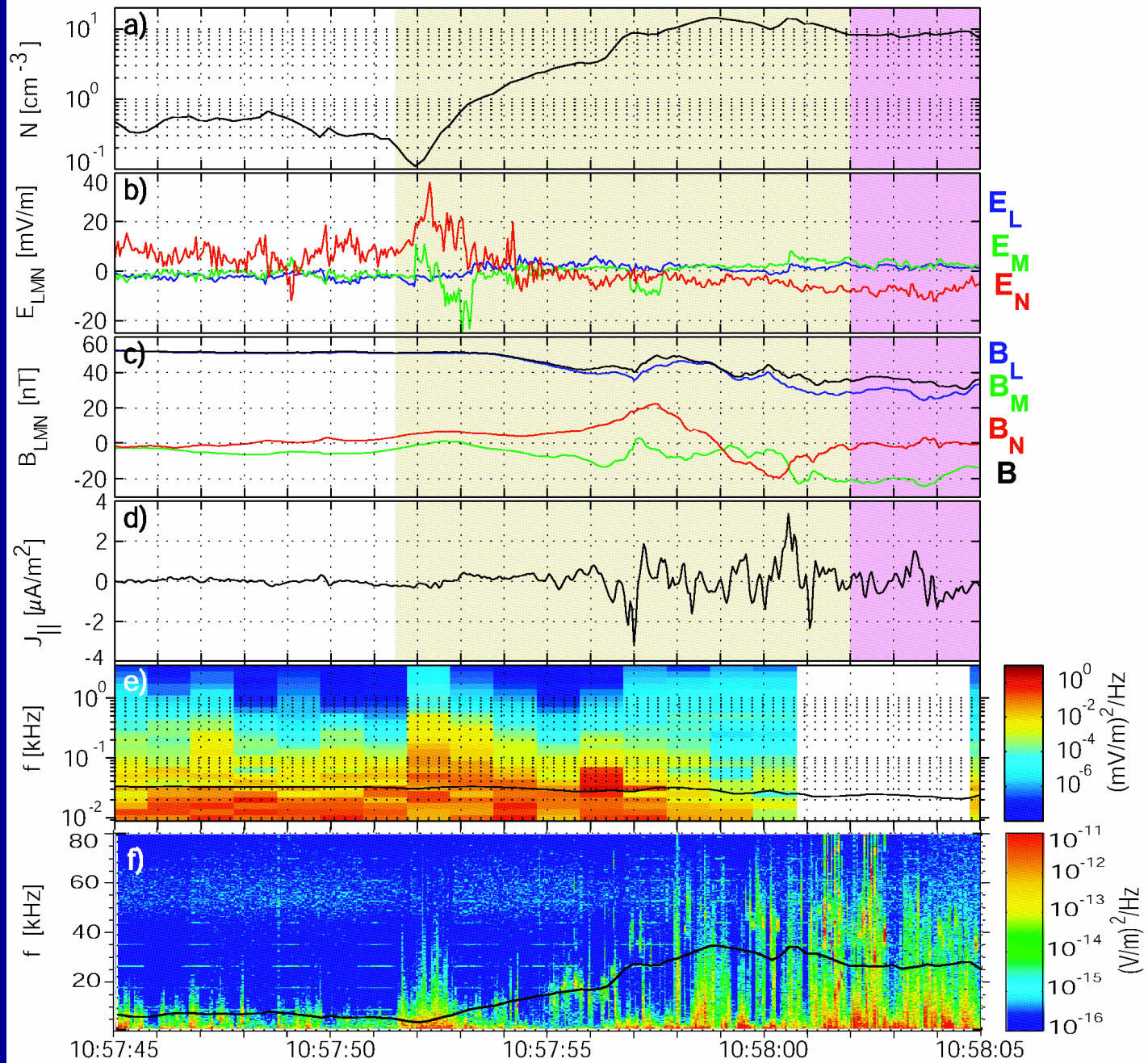
Nakamura & Scholer, JGR, 2000



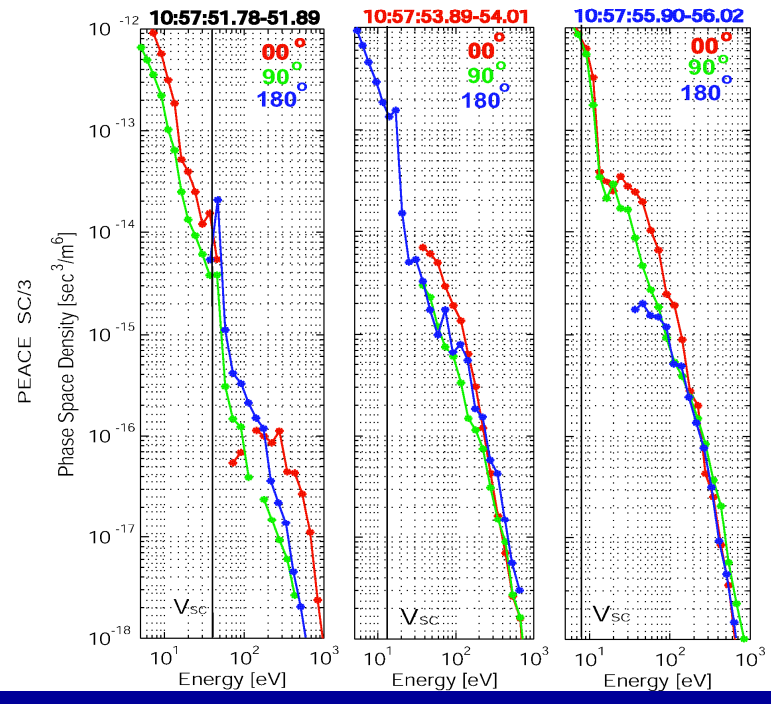
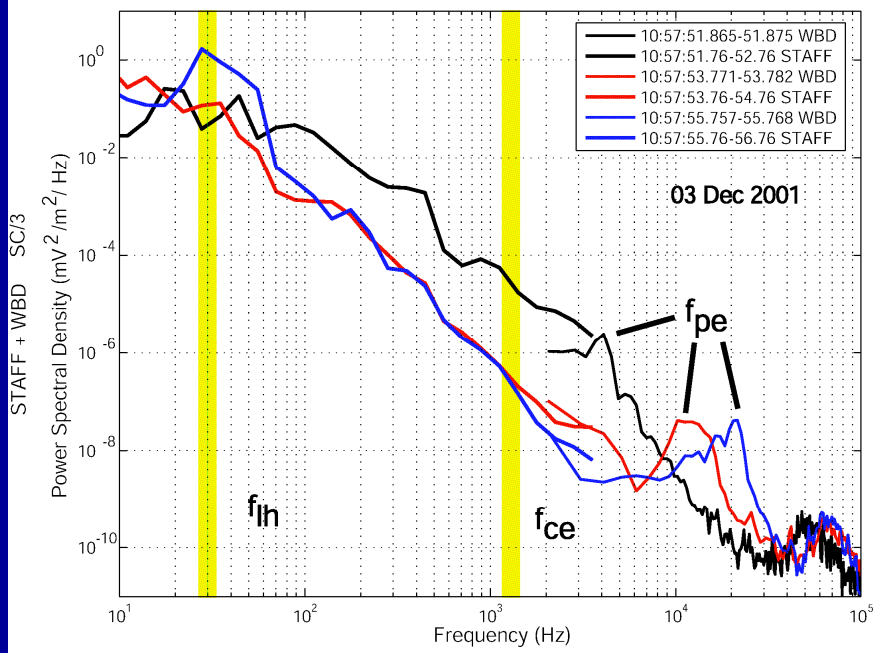
10 c / ω_{pe}

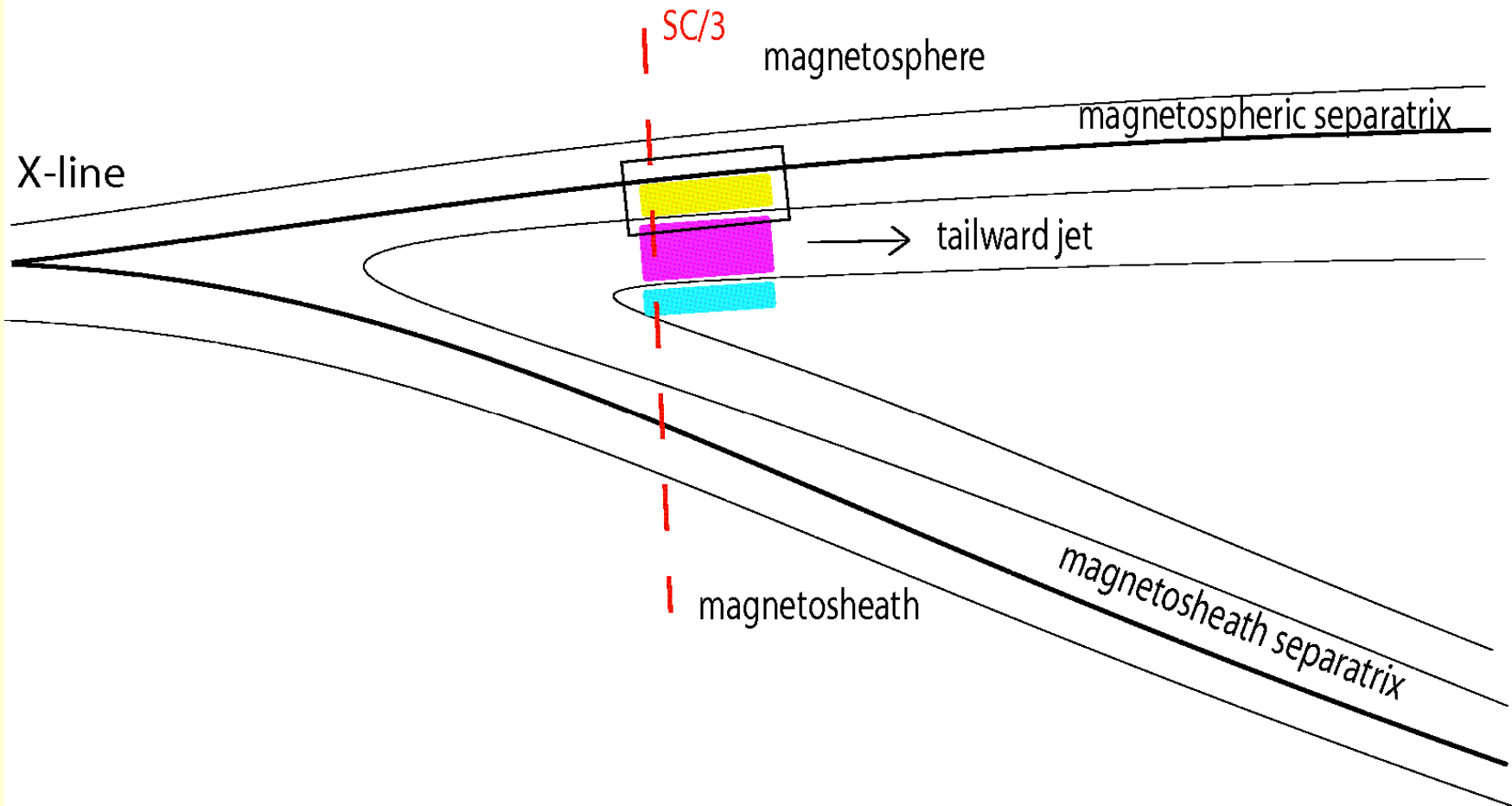
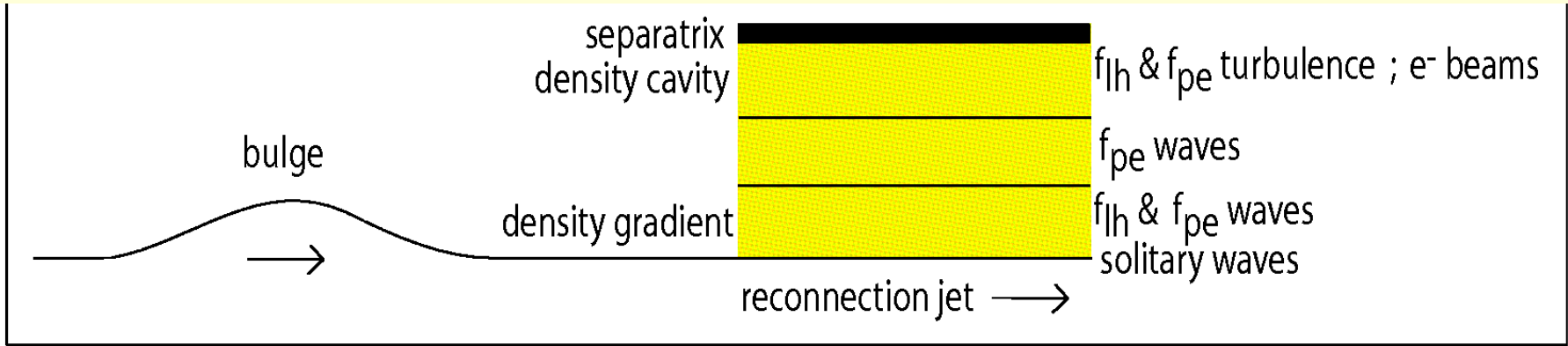


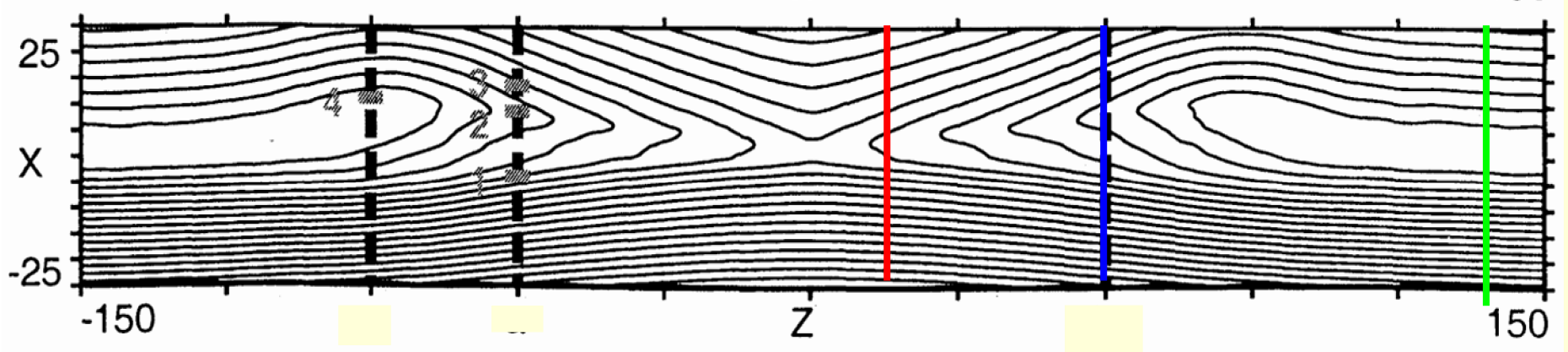


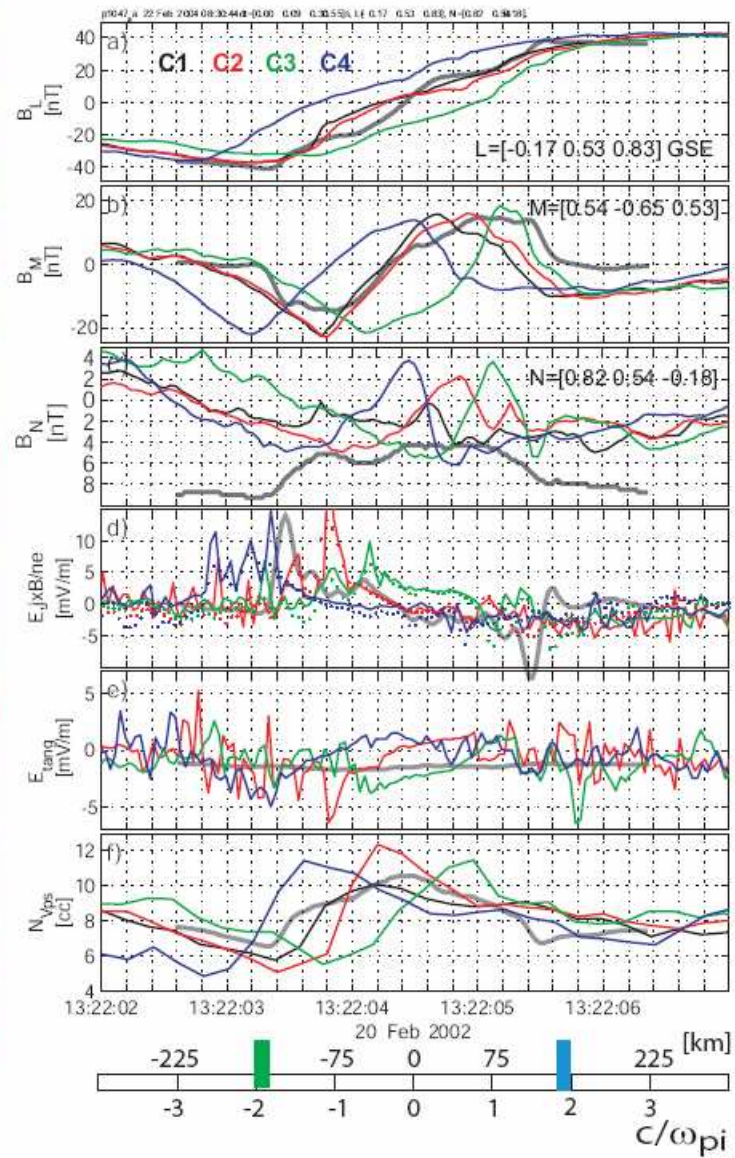
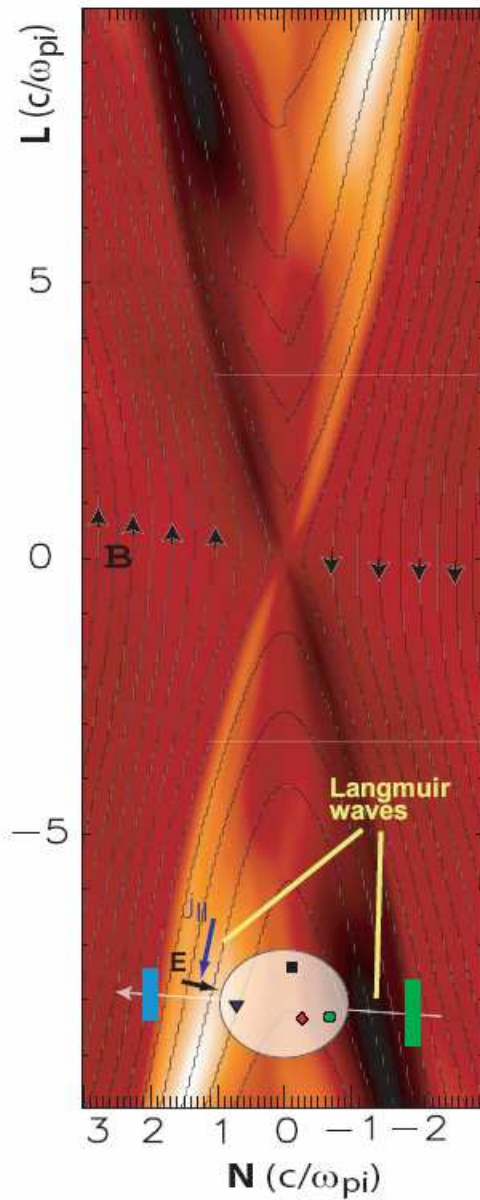


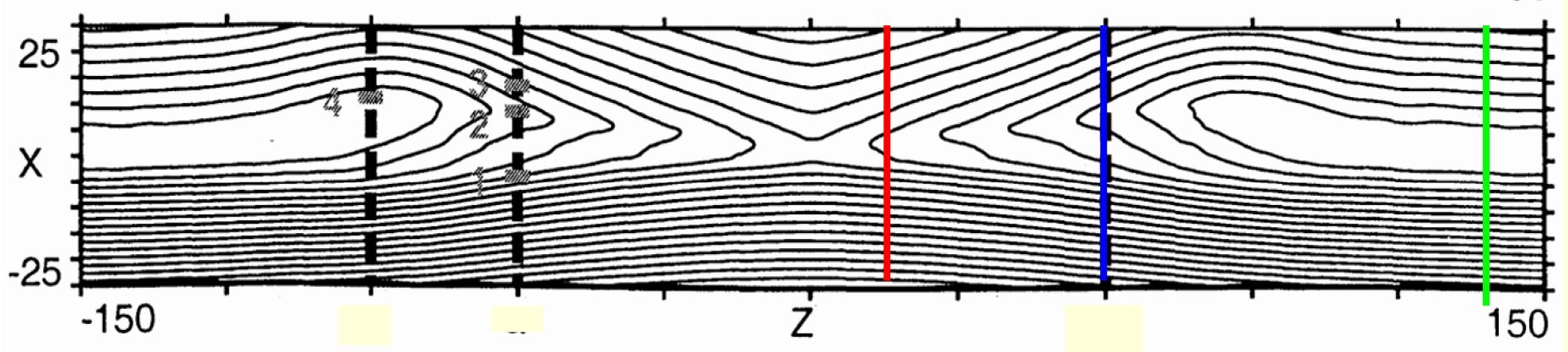
03 Dec 2001

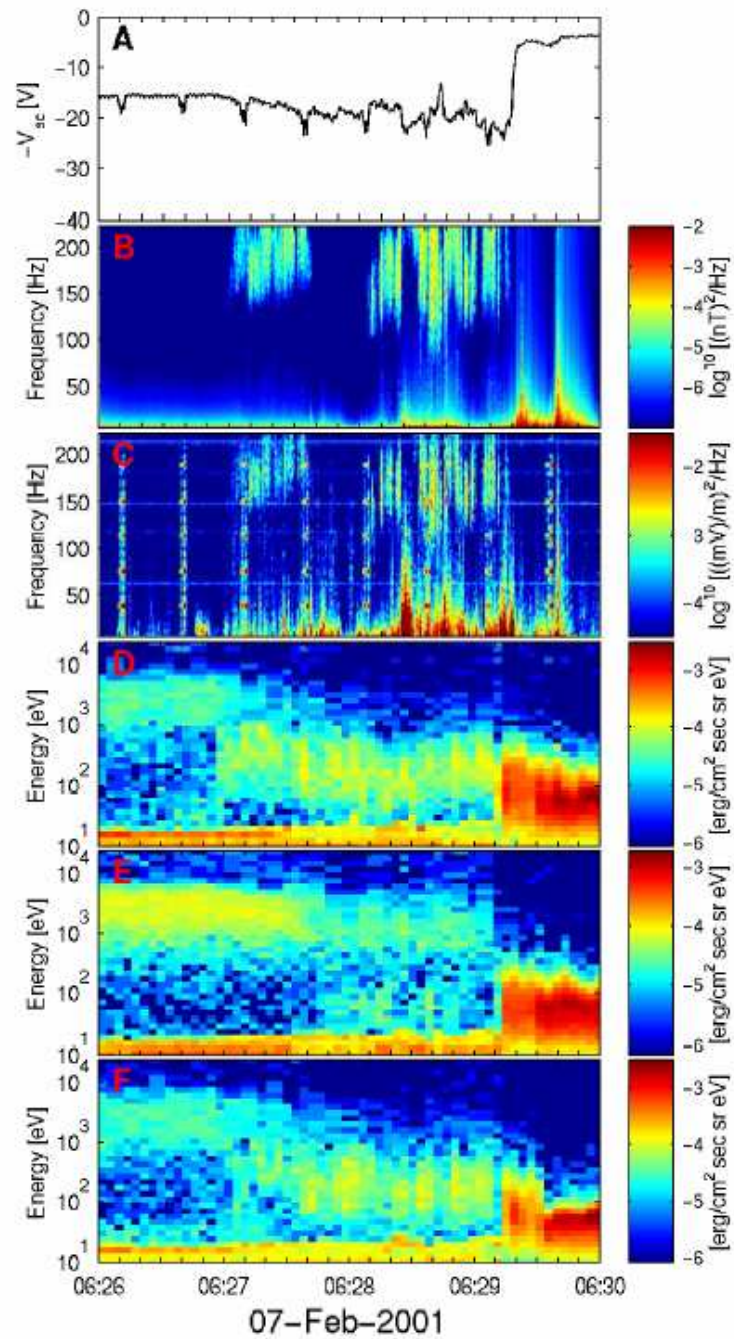


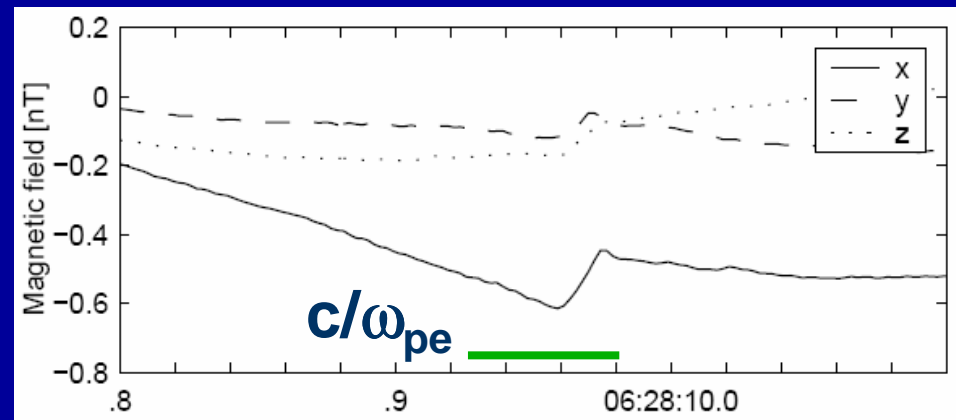
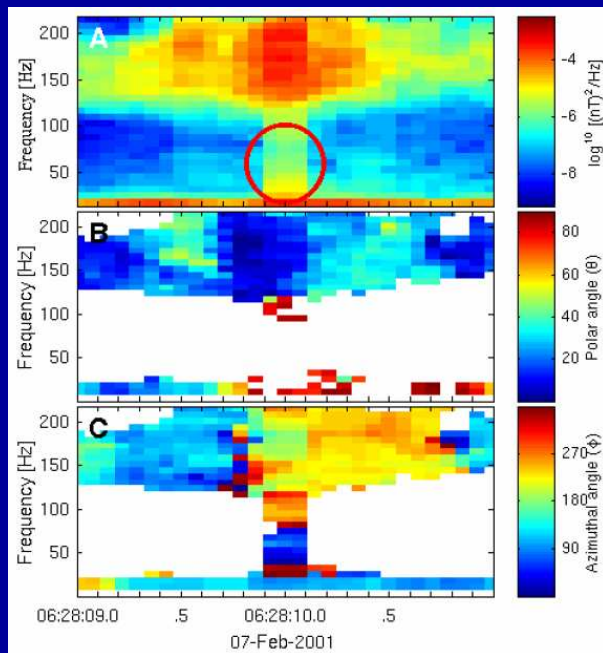
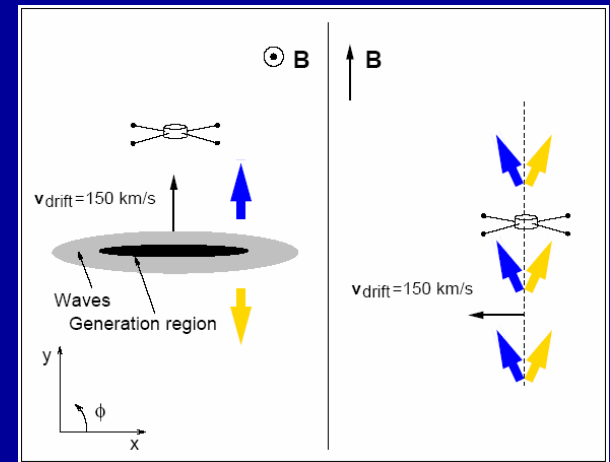
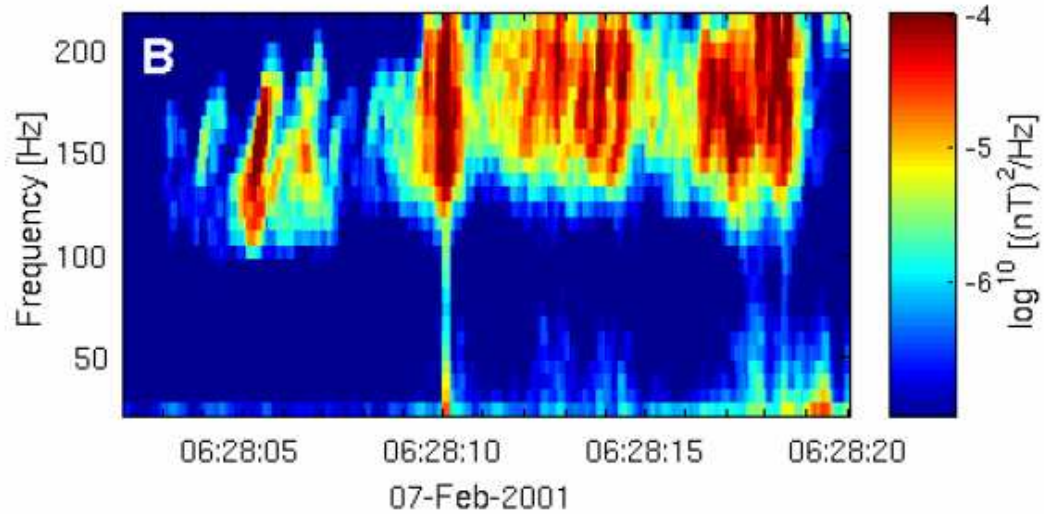












Relevant Papers and Posters

- ***Near diffusion region***
Structure of the magnetic reconnection diffusion region...
Vaivads et al., Phys. Rev. Lett., 2004
- ***Intermediate***
The structure of the separatrix region...
Retinò et al., submitted to GRL, 2005
- ***Far away***
Thin electron-scale layers at the magnetopause
André et al., GRL, 2004
- ***Inside the magnetopause***
Electron-scale structures indicating patchy reconnection...?
Stenberg et al., submitted to Ann. Gephys, 2005

Posters Today

- Canu A search for electron scale structures...
- Khotyaintsev Electric structure of an FTE...
- Stenberg Electron-scale structures....

Summary

- Separatrices (less than ion scale) far away from the diffusion region (>100 ion scales)
- Much finestructure (electron scale, Debye length) in the separatrices also far away from diffusion region
- Intermediate scales (ion, several times electron scale) likely to extend for long distances, small scales (electron, Debye) often locally generated
- Direct coupling to the diffusion region likely also well inside the magnetopause

