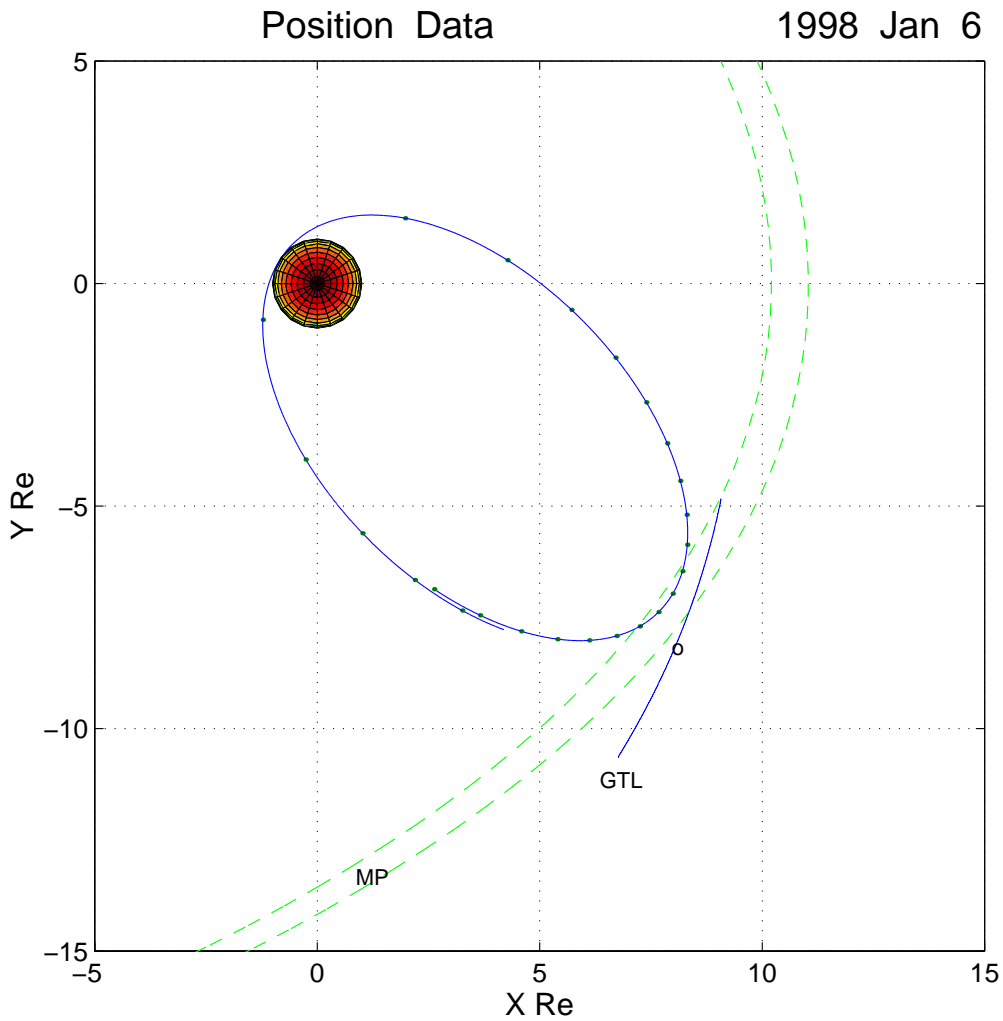
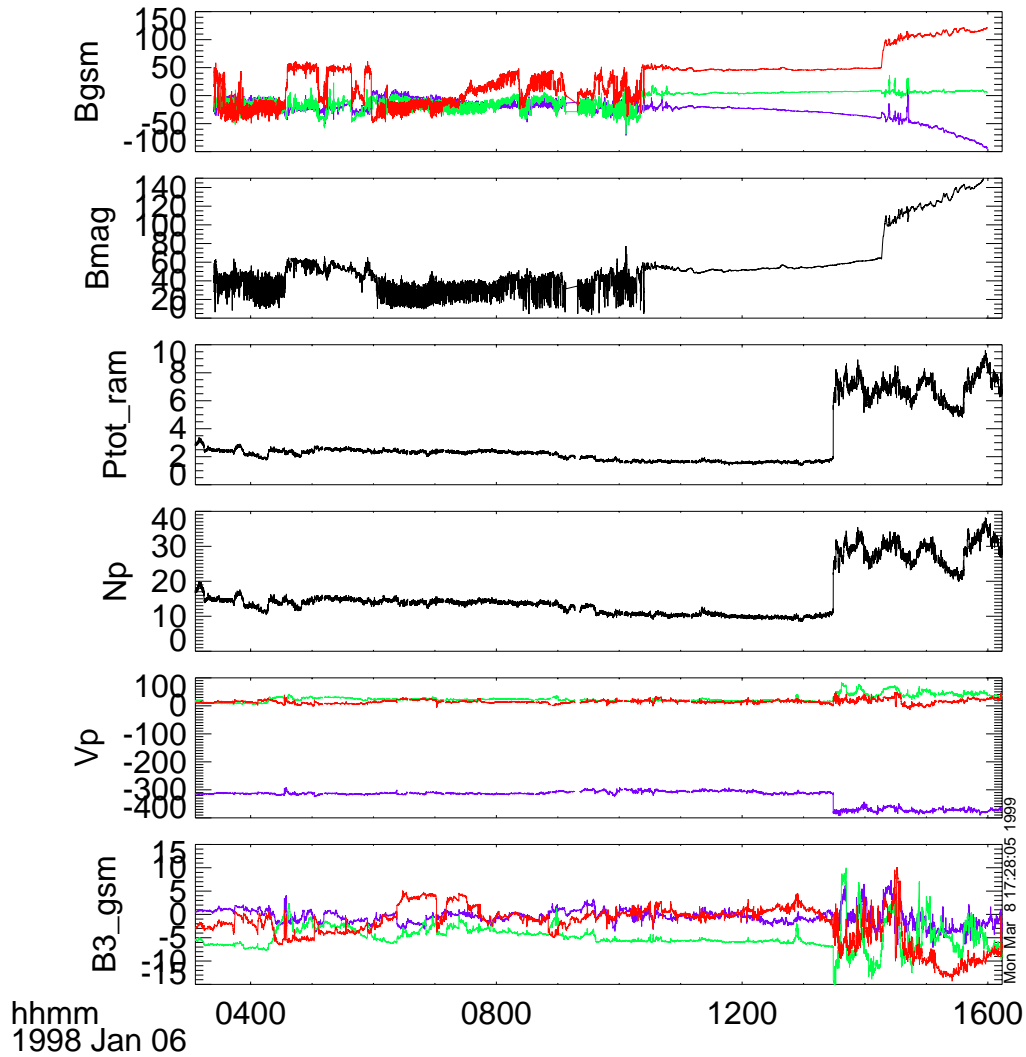


Equator-S / Geotail Close Conjunction



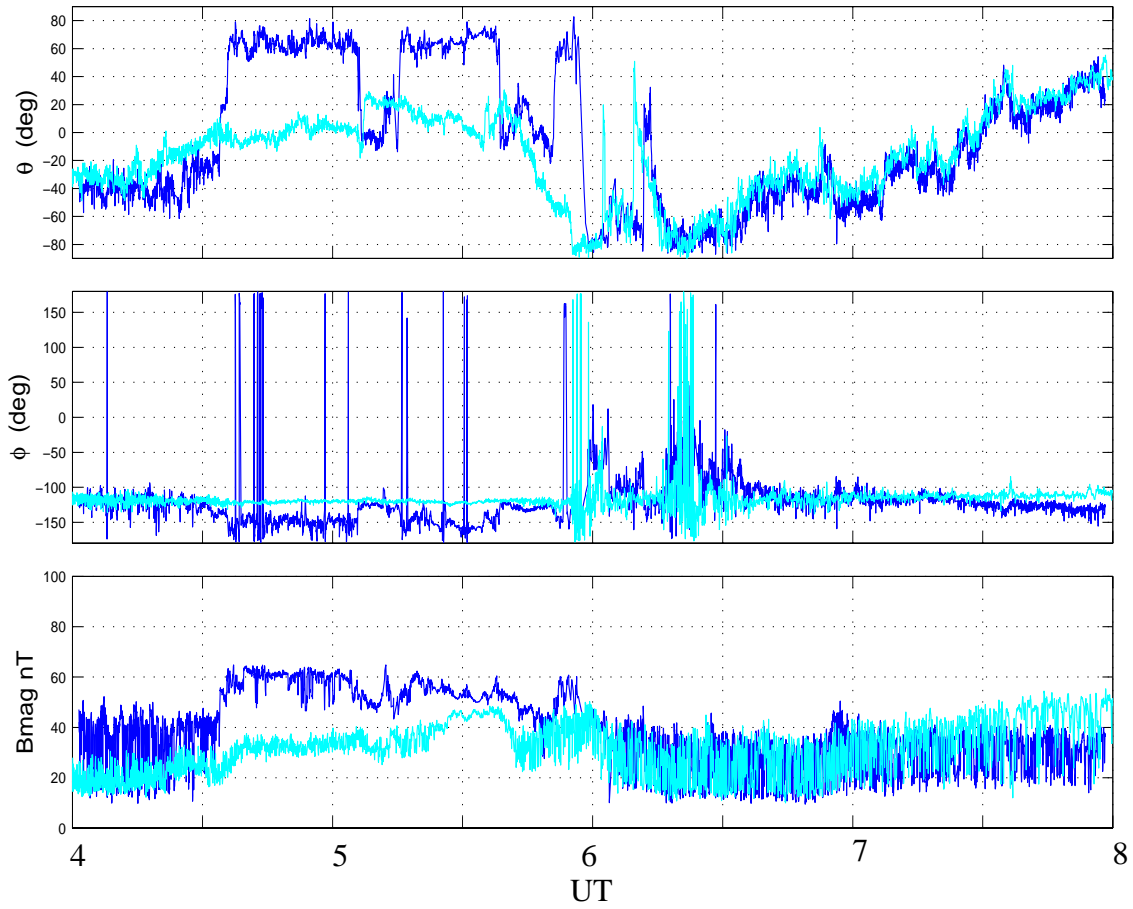
- Closest conjunction at 6 UT, separation $< 2 R_e$
- Equator-S skimmed the magnetopause
- Geotail remained in the upstream magnetosheath

Overview of Equator-S Observations



- Multiple high-magnetic shear magnetopause crossings
- Response to arrival of interplanetary shock
- Mirror waves in magnetosheath -> Comparison with Geotail

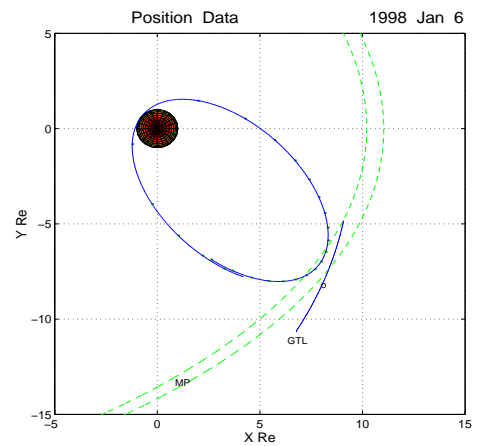
Mirror Waves at Geotail and Equator-S



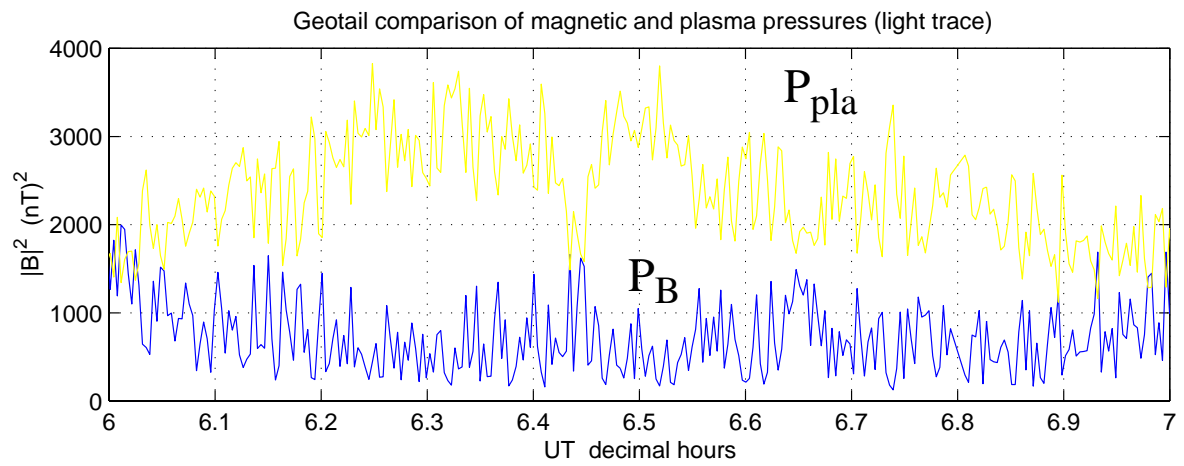
$$\Delta B_{\text{GTL}} < \Delta B_{\text{EQS}}$$

excellent agreements

$$B_{\text{GTL}} < B_{\text{EQS}}$$

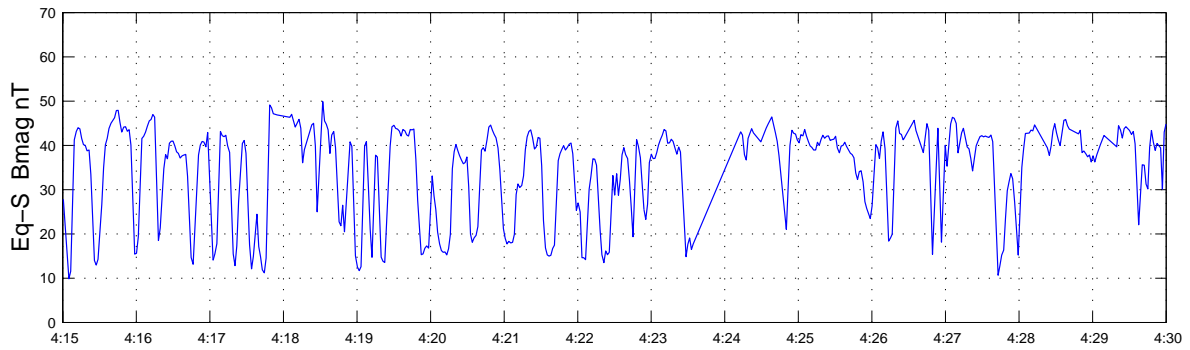
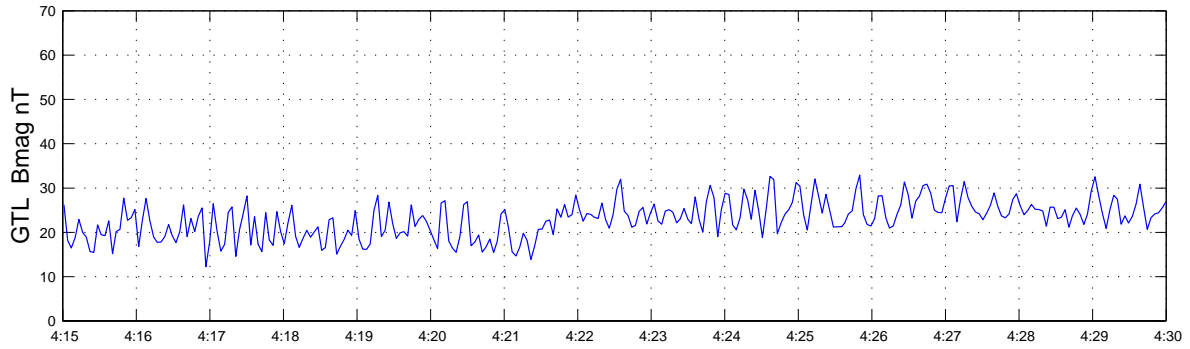


Mirror Waves: |B| - Density Anti-Correlations



UT

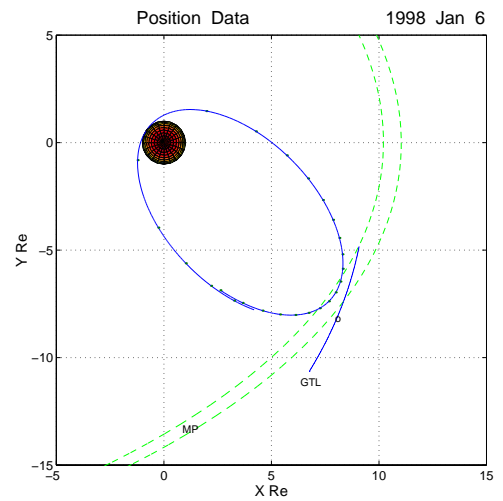
4:15 - 4:30 UT



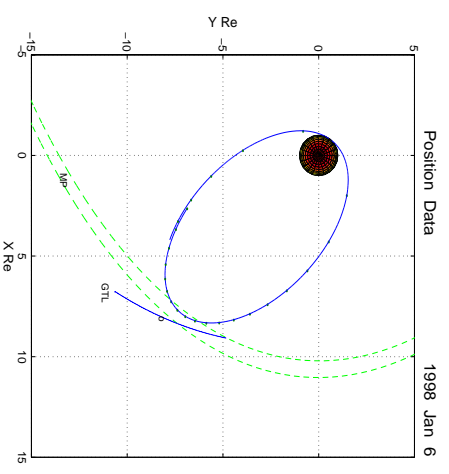
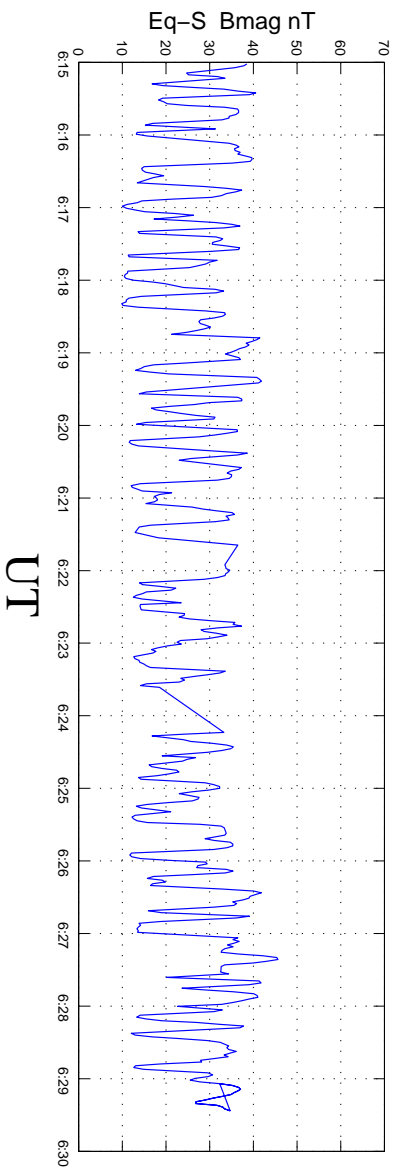
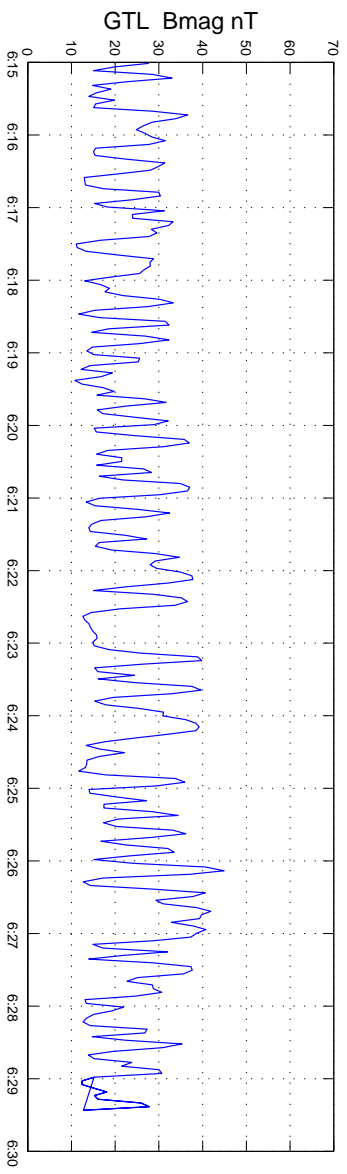
UT

$$\Delta B_{\text{GTL}} < \Delta B_{\text{EQS}}$$

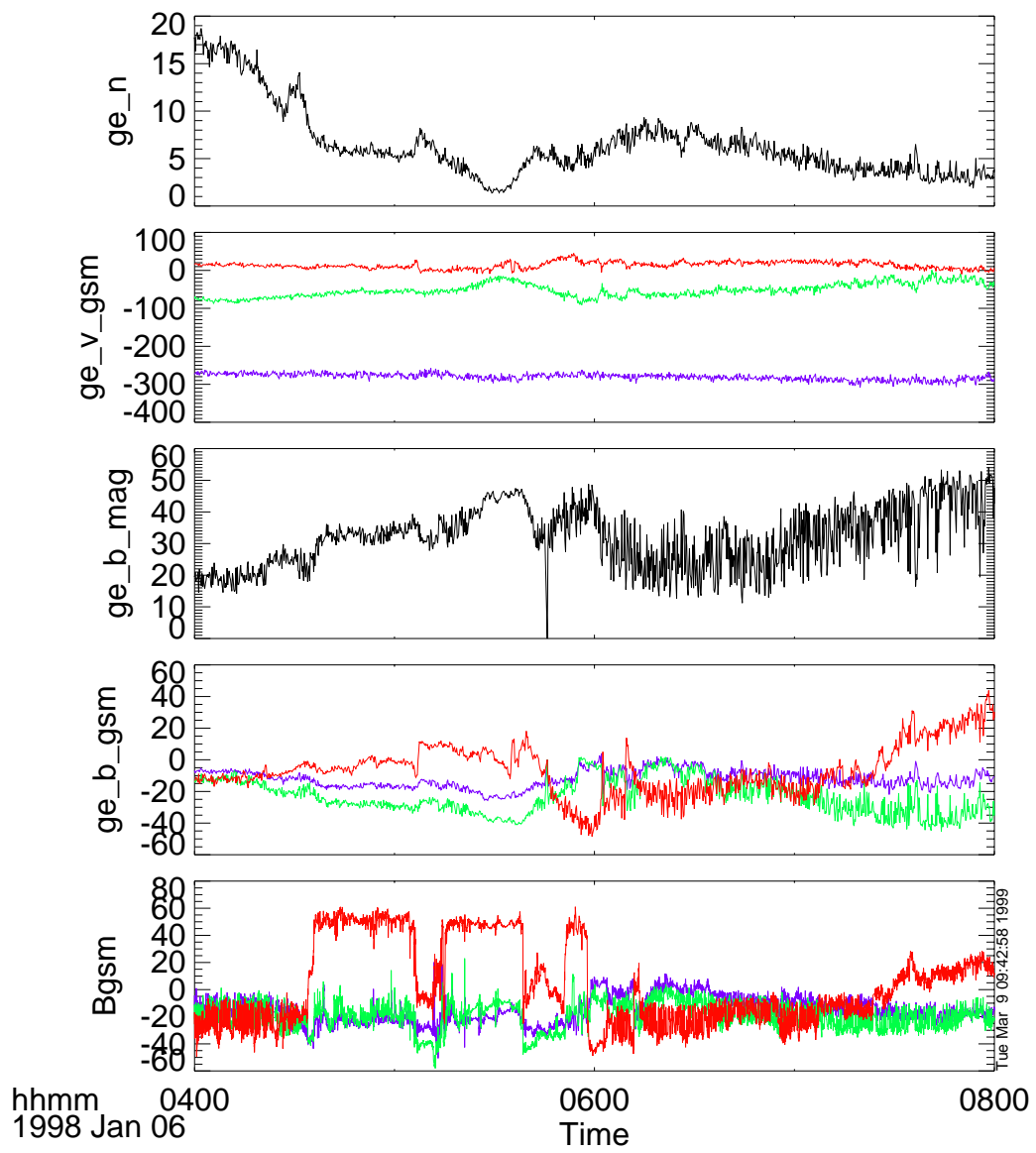
$$B_{\text{GTL}} < B_{\text{EQS}}$$



6:15 - 6:30 UT



Geotail in Magnetosheath at 4:00-8:00 UT



Solar Wind Condition at 4:00-8:00 UT

