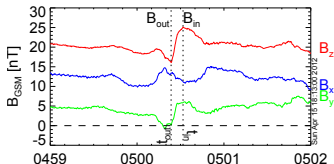


Dipolarizing flux bundles inside GEO by Jiang Liu



- A dipolarizing flux bundle (DFB) is a high- B_z flux tube led by a dipolarization front; it usually appear in the magnetotail.
- A DFB have strong electric field to cause injection.
- Injections inside the geosynchronous orbit receive the most research focus.
 - Energetic particles drift from the tail to the geosynchronous orbit.
 - Energetic particles are locally accelerated by DFBs inside the geosynchronous orbit.
- Previous studies show that DFBs seldom appear inside the geosynchronous orbit.
 - This is because they used the flow speed, which decreases with proximity to Earth, to search for DFBs.

DFBs observed by RBSP

- We use magnetic field data to search for DFBs within the RBSP orbits.
- We identified 53 DFBs in 2013.

