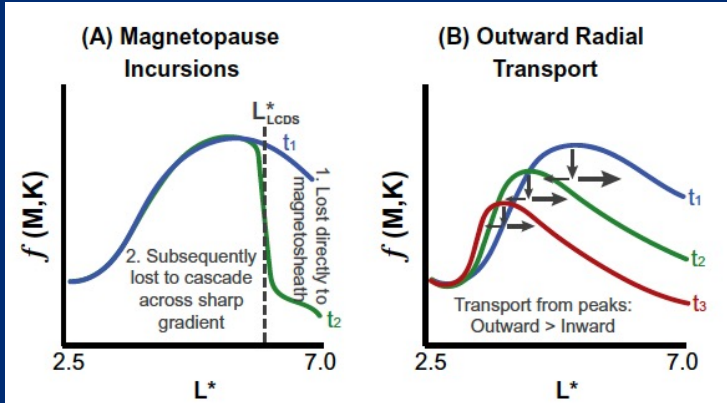


Outer radiation belt losses by magnetopause incursions and outward radial transport: new insight and outstanding questions from the Van Allen Probes era

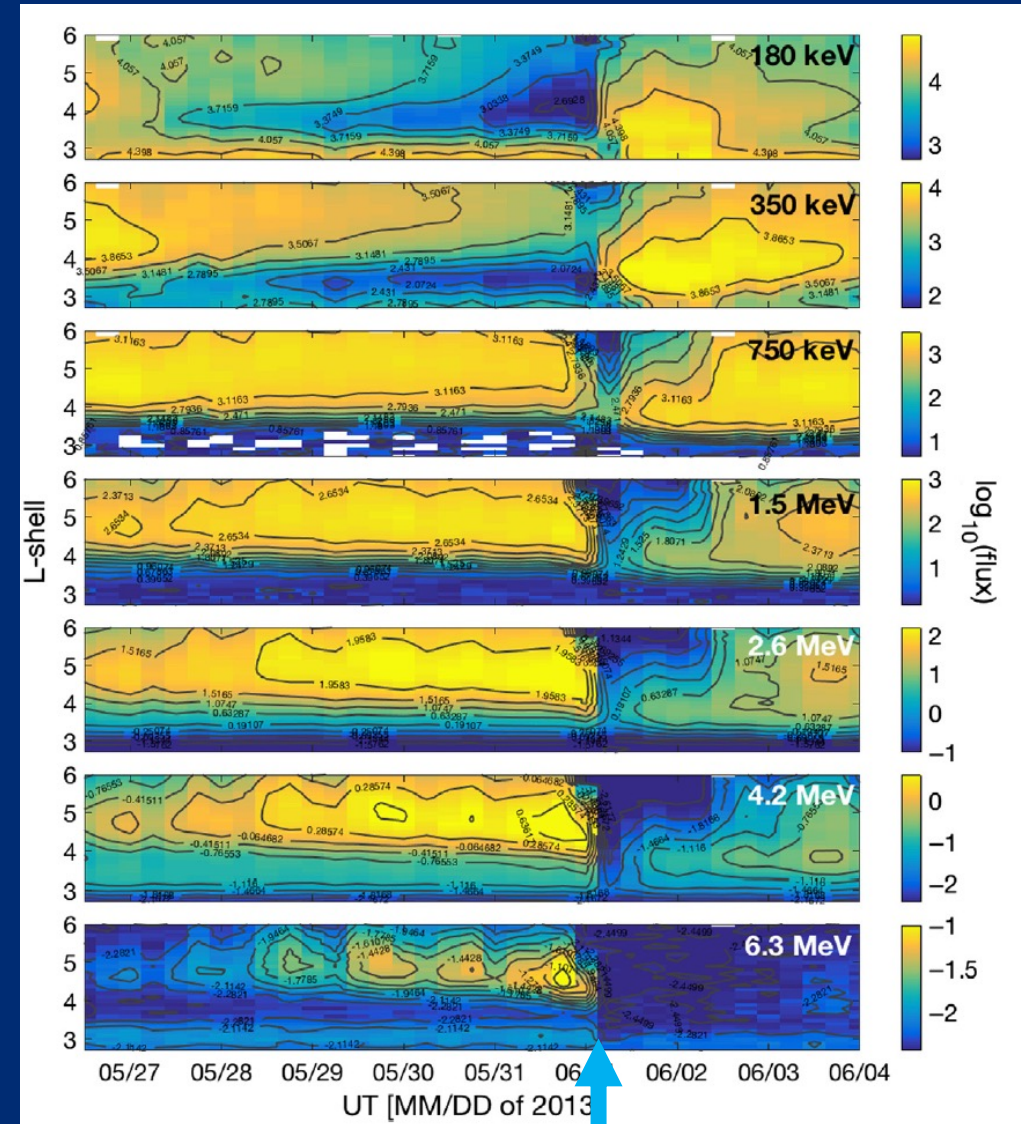
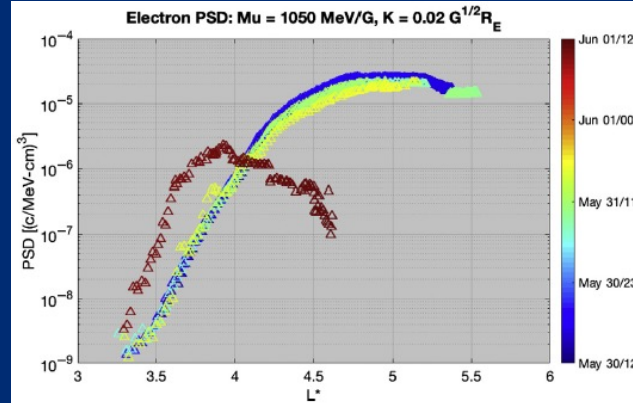
Drew L. Turner¹ and Aleksandr Y. Ukhorskiy²

- This is a review of current understanding of radiation belt dropouts and losses through Earth's magnetopause

Theory



Observations



New results from NASA's Van Allen Probes have conclusively demonstrated the importance of magnetopause losses and outward transport during radiation belt dropout events

Dropout event observed by Van Allen Probes