Space Physics Seminar



Thursday, September 29, 2016



What's Up with Oxygen 834?

Tim Cook

U Mass Lowell

834A emission has been used as a tracer of O+ density - and thus the e- density - in the Earth's sunlit upper atmosphere. In the standard paradigm the emission is produced in the lower thermosphere and travels upward where it scatters off of O+ ions in the ionosphere.

Over the last 40 years sounding rocket observations have revealed the existence of 834A emission on the night side of the Earth. This emission presumably still arises from O+ ions but no obvious mechanism for it's production is evident.

I will discuss our observations of 834A emission, both past and future, and explore possible sources of the night side emission.

4:00pm in CAS 502. Refreshments served at 3:45pm in CAS 500.



Center for Space Physics 725 Commonwealth Avenue 617-353-5990 http://www.bu.edu/iar/seminars Next Week
Joint Seminar with IAR
Thursday 10/8