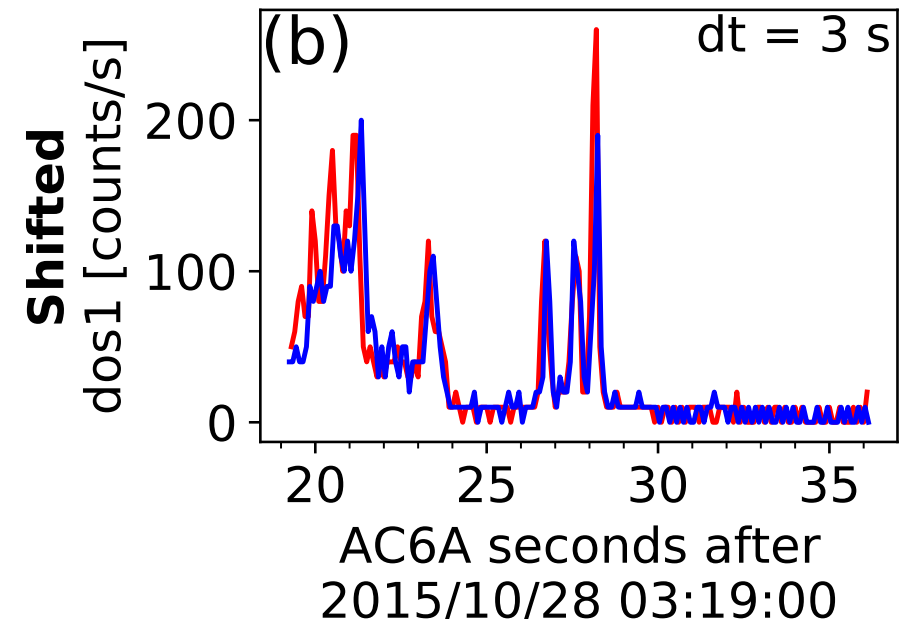
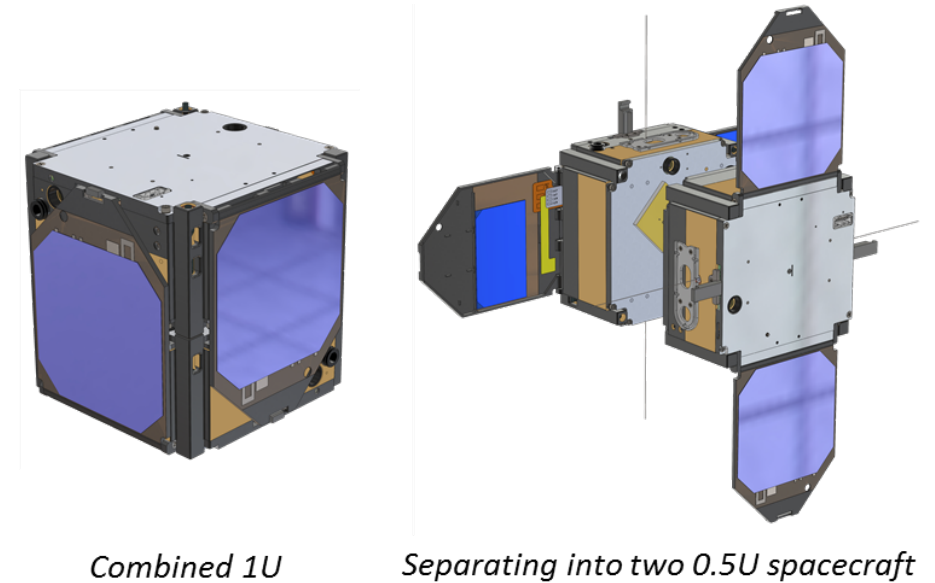


Statistical Properties of Electron Curtain Precipitation Estimated with AeroCube-6

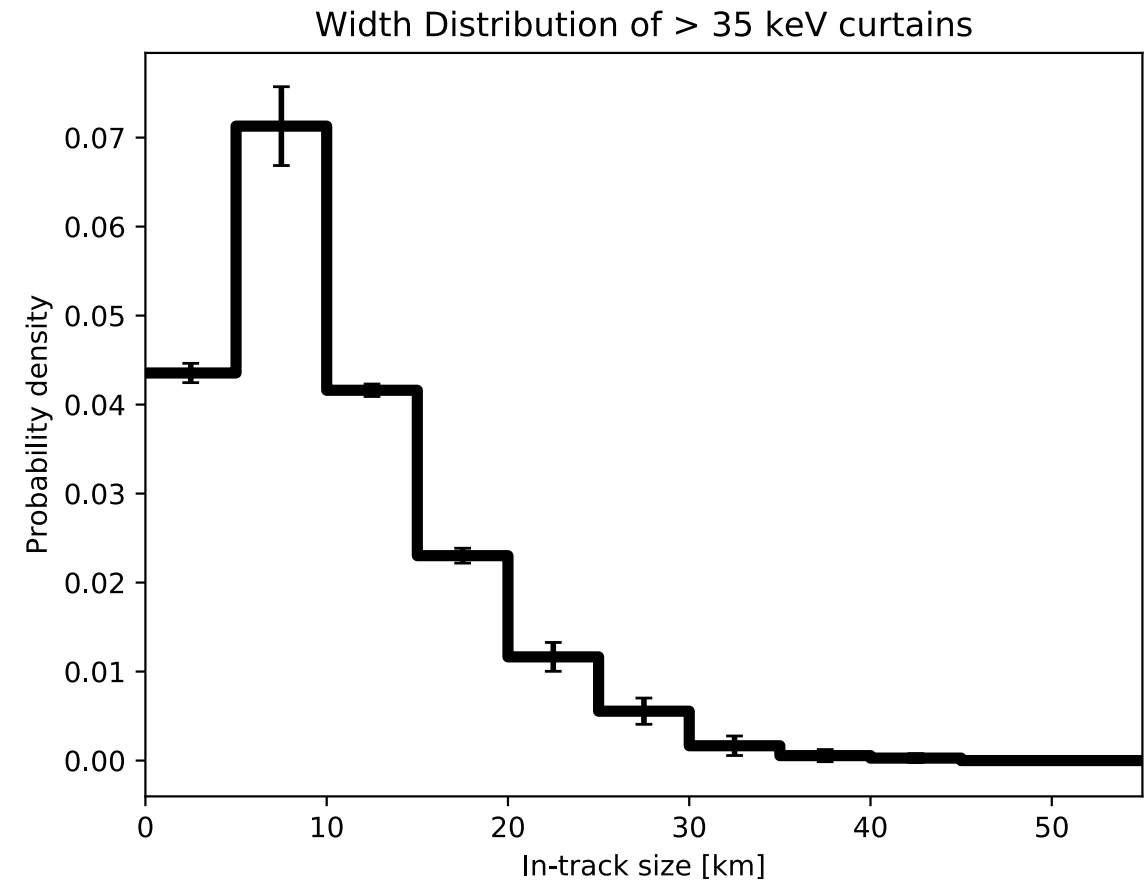
Mykhaylo (Mike) Shumko

Blake and O'Brien 2016 discovered curtains: a latitudinally narrow and stationary form of precipitation with mysterious physical shape, statistical properties, and origin.

We investigated their statistical properties and began to unravel their mysterious origin.

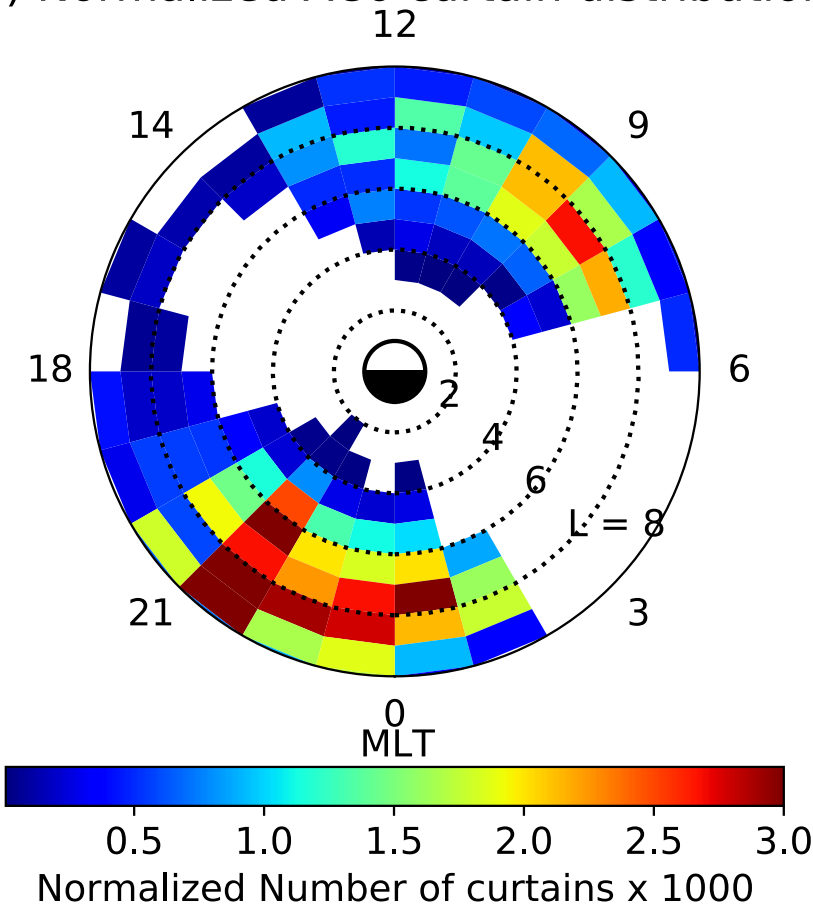


90% of curtains are narrower than 20 km in latitude



Curtains are observed predominately pre-midnight MLT and at high L shell

(b) Normalized AC6 curtain distribution



AC6 Curtains in the Bounce Loss Cone

Surprisingly, we found curtains that continuously precipitated into the atmosphere. Could curtains be related to the aurora?

More details at:
<https://doi.org/10.1029/2020JA028462>

Questions?

