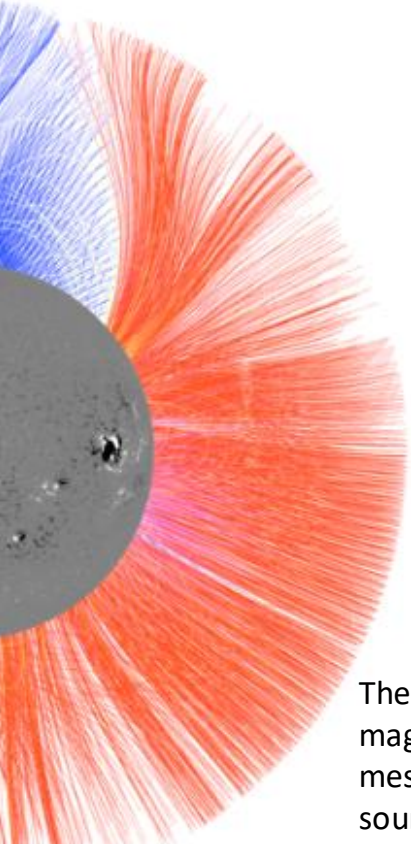


# Characterizing the Solar Sources of Periodic Mesoscale Solar Wind

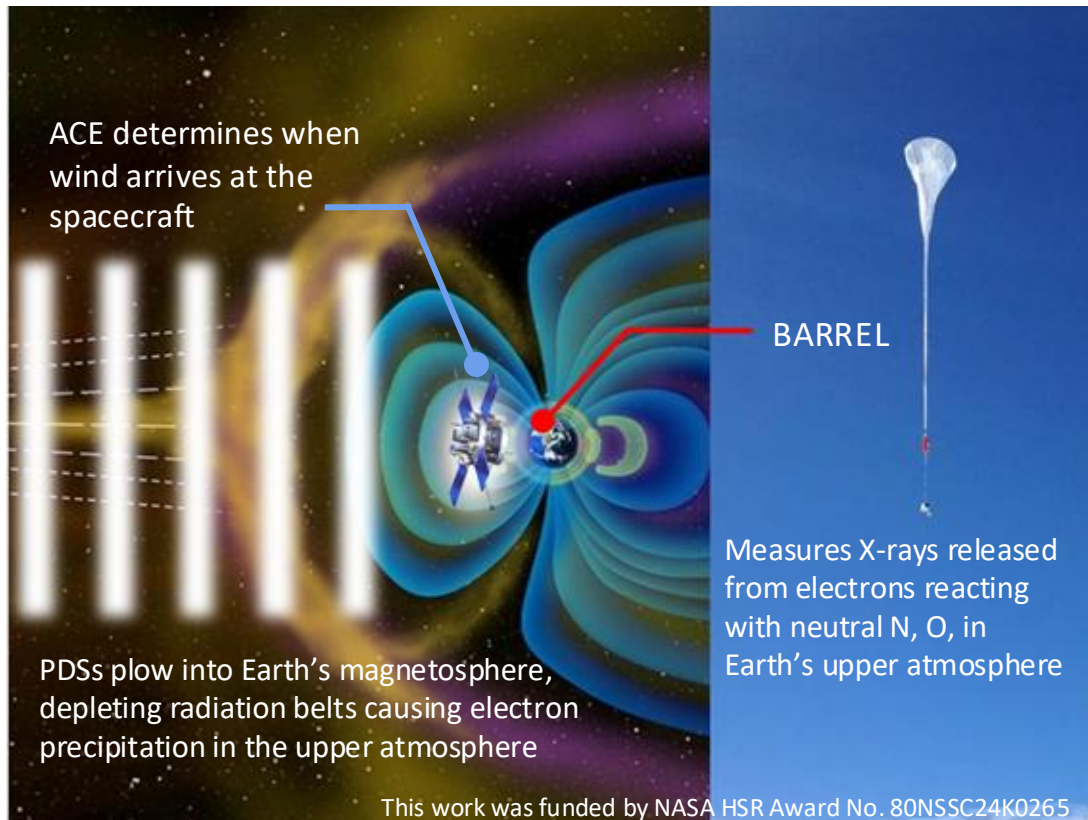
## Structures Responsible for Radiation Belt Particle Loss



 Grace Gratton,  Samantha Wallace,  Nicholeen M. Viall,  Simone Di Matteo

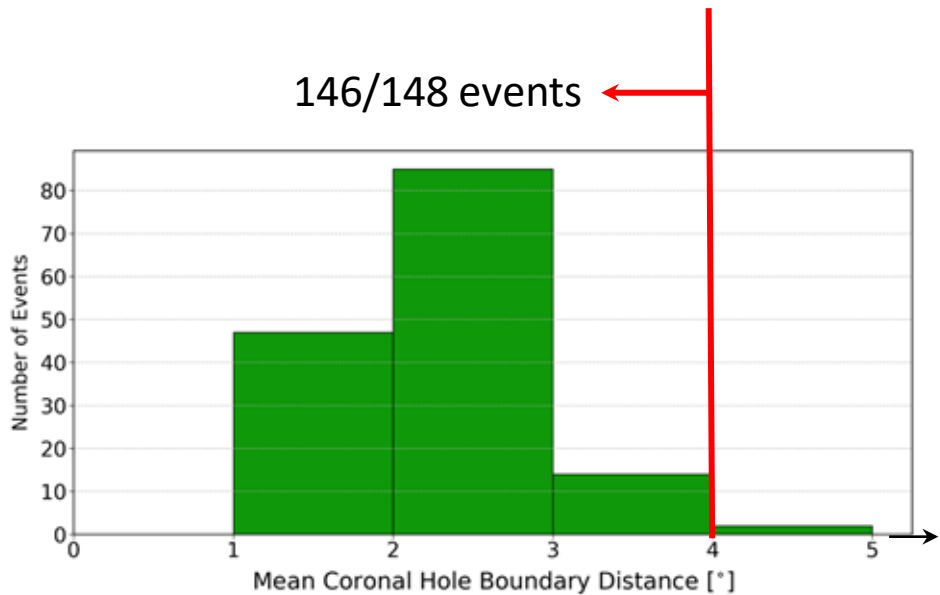


The ADAPT-WSA derives magnetic connectivity of mesoscale structures to their source at the Sun

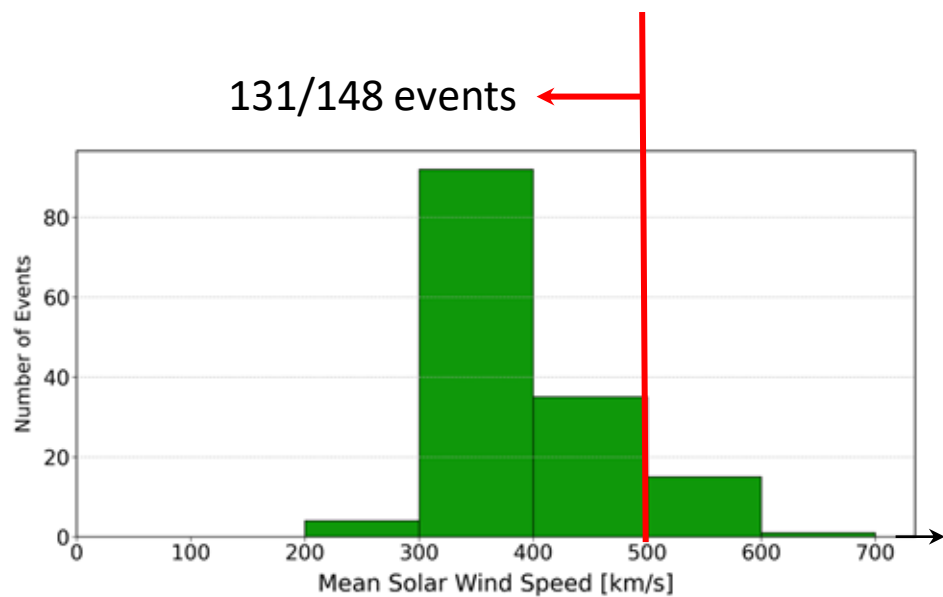


**99% of PDSs originate from within 4° of the magnetic open-closed boundary and 89% of our events are associated with slow solar wind.**

146/148 events



131/148 events



The distribution of our events is skewed toward originating from the S-web, relative to the total solar wind impacting Earth's magnetosphere during BARREL flight intervals.

