Aidan
Thayer
Pennsylvania State University
William Bristow, Pennsylvania State University
Oral
(Student Speaker)
Poleward moving radar auroral forms, PMRAFs, are radar signatures of magnetopause reconnection and strong indicators of flux transfer events. Due to a lack of instrumentation, the Southern Hemisphere has historically suffered from a lack of measurements capable of tracking the high density, high velocity plasma associated with PMRAFs. Using SuperDARN's high resolution imaging dataset and a temporal analysis of the data, we are able to discern features of PMRAFs at a higher resolution. We compare interplanetary magnetic field statistics and auroral indices of those PMRAFs at the time of each event to check for trends.
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