## Abstract Submitted for the TSS09 Meeting of The American Physical Society

A Table for Ionopheric Boundaries and Solar Wind Conditions<sup>1</sup> ROBERT ALLEN, JORGE LANDIVAR, RAMON LOPEZ, The University of Texas at Arlington — Using data from the Defense Meteorological Satellites Program (DMSP) satellite F13 we find the times, locations, and the difference in location between the Convection Reversal Boundary (CRB) and the Polar Cap Boundary (PCB). The Convection Reversal Boundary is where the electron drift changes direction from toward the sun to away from the sun. The Polar Cap Boundary is the boundary between the magnetic field lines that are connected to the Earth on both sides and those which are connected at one end to the Earth and the other end to the solar wind. The periods selected are from Richardson et al coronal mass ejections list filtering for -70 DST and below. Then we gather solar wind characteristics using the OMNI data set along with DST values from ground based magnetometers. The related positions of the CRB and PCB are of interest to other studies being done in the group. This study will also be used to validate simulation results from our group.

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