

## **BOUNDARY LAYER ELF/VLF PLASMA WAVES**

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Magnetopause ELF/VLF boundary layer plasma wave observations will be reviewed, with an emphasis on the most recent POLAR wave (and imaging) results. These new results lead to a distinct paradigm shift. POLAR results indicate that the boundary layer contains auroral zone magnetic field lines and the plasma wave dynamics is intimately related to  $\sim 100$  eV to  $\sim 10$  keV field-aligned electron and ion beams. The electron and ion beams are, in turn, driven by the large scale solar wind-magnetospheric interaction. With this picture in mind, most of the boundary layer wave phenomena at Earth and Jupiter can be understood.