

# The Earth's Plasmasphere: Pending Questions and Issues

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Since its discovery in the 60's a wide range of the dynamical properties of the Plasmasphere have already been revealed thanks to ground based whistler observations, as well as the plenty of in-situ spacecraft measurements.

After a review of the most important properties already identified, I will outline some features and properties that would need closer examination in future studies, and tentative physical solutions from experimental and theoretical points of view: e.g. the Plasma Boundary Layer, the Plasmaspheric Wind, Plasma Plumes, Plasmaspheric Depressions ...