



Cassini's first Titan encounters: a comparison of plasma results

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We compare plasma data from the first encounters of Titan by the Cassini-Huygens mission. Several features in the ionosphere appear to be present at every encounter, including ionospheric photoelectrons. Other features in the larger scale interaction are different between encounters, such as the interaction size, detailed structure, geometry and the magnetospheric conditions in which Titan is immersed. In this paper we will compare the electron and ion measurements made by the Cassini Plasma Spectrometer (CAPS) and explore possible reasons for the difference in the observed structures at the different encounters.