



## **Plasma Wave Intensity During Cassini's Ring-grazing and Proximal Orbits**

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In the final period of the Cassini mission the spacecraft trajectory included 20 high inclination ring-grazing and 22 proximal orbits. The ring-grazing orbits traversed the inner edge of the Enceladus plasma torus, which is a region of intense Z-mode and narrowband emission source regions. The proximal orbits intercepted the ring plane just above the planet and even penetrated the ionosphere. Using the Cassini radio and plasma wave science (RPWS) instrument observations we conduct a survey of a number of the individual orbits and calculate the mean intensity and wave normal angle of Z-mode and whistler mode hiss in frequency and latitude. We compare the results to previous surveys of chorus and Z-mode, waves that can interact strongly with radiation belt electrons.