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**Abstract**

**The Ulysses Mission: Studies of Solar (and Jovian) Polar Regions**

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After an introduction of the Ulysses spacecraft mission, I will focus on radio and plasma wave studies of shocks and coronal mass ejections, as evidenced by observations from high solar latitudes. The high latitude, fast solar wind is also home to plasma wave activity in magnetic holes, as discovered by Ulysses. Ulysses also visited the polar regions of the Jovian magnetosphere, the source of most of the Jovian radio emissions. Their similarities to and differences from terrestrial magnetospheric emissions will be examined. Future polar spacecraft missions, such as Solar Orbiter, will be compared to the Ulysses mission.