OBSERVATIONS OF CHORUS AT SATURN
BY CASSINI

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Abstract

The Cassini Radio and Plasma Wave instrument has detected whistler-mode
chorus during many of its one hundred thirty-five orbits of Saturn. Similar to ob-
servations of chorus in Earth’s magnetosphere, the chorus at Saturn is found to
always be propagating away from Saturn’s magnetic equator, suggesting a source
near the magnetic equator. Unlike chorus at Earth, the chorus at Saturn is only
observed below half the electron cyclotron frequency unless it is detected in associ-
ation with a local plasma injection event. This work will expand our earlier survey
of chorus observations from the first forty-five orbits of Cassini and discuss the simi-
larities and differences of the two types of chorus detected at Saturn to observations
of chorus at Earth and Jupiter.

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