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Rycroft. The subject of  
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interactions occurring in space plasmas has developed strongly, both observationally and theoretically, since the discovery of the Van Allen radiation belts of charged particles trapped in the Earth's magnetosphere over forty years ago.

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Y ...**

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The whistler mode waves periodically appeared at each cycle of the ion-scale waves, and the electron distribution functions associated with the whistler mode waves showed enhancement in the direction parallel to background magnetic field. ... A likely candidate of the ion-scale wave is the kinetic Alfvén wave, which can generate the



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**Modulation of Space  
Whistler Mode  
Waves by Ion-Scale  
Waves ...**

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in space. [V. I. Ukhovits;  
Trakhtengerts; Michael  
J Rycroft] -- The subject  
of wave-particle  
interactions occurring  
in space plasmas has  
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Preface; 1.

Introduction; 2. Basic  
theory of cyclotron  
masers (CMs); 3. Linear  
theory of the cyclotron  
instability (CI); 4.

Backward wave  
oscillator (BWO)

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regime in CMs; 5.

Nonlinear cyclotron  
wave-particle  
interactions for a quasi-  
monochromatic wave;  
6. Nonlinear interaction  
of quasi-  
monochromatic  
whistler mode waves  
with gyroresonant  
electrons in an in  
homogeneous plasma;  
7.

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In the 1960s there began a remarkable series of experiments involving controlled injection of whistler-mode signals into the magnetosphere and study of the mechanism by which the spectra of the waves were apparently altered by the hot plasma of the magnetosphere. This work was initially dependent upon

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signals from existing  
communication and...

## **Introduction to Whistler Waves in the Magnetosphere**

...

[3] Whistler is an extraordinary mode of electromagnetic wave propagation in magnetized plasmas. There are many physical phenomena in which one encounters whistler wave turbulence; examples

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include turbulence  
excited by energetic  
particles in the  
radiation belts of  
Earth's magnetosphere  
[ Kennel and  
Engelmann , 1966 ]  
and waves excited in  
the ...

**Whistler  
propagation and  
modulation in the  
presence of ...**

At electron kinetic  
scales, whistler-mode  
turbulence dissipates

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through the cyclotron and Landau resonances of the electrons. These resonant interactions depend on the propagation angle of the whistler fluctuation, so a preferred resonance in whistler-mode turbulence depends on the direction of cascading of fluctuation energy.

**Generation of**  
*Page 16/27*



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**intermittent ion  
acoustic waves in  
whistler ...**

Definition. An Alfvén wave in a plasma is a low-frequency (compared to the ion cyclotron frequency) travelling oscillation of the ions and the magnetic field. The ion mass density provides the inertia and the magnetic field line tension provides the restoring force.. The wave propagates in the

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direction of the magnetic field, although waves exist at oblique incidence and smoothly change into ...

## **Alfvén wave - Wikipedia**

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**Hybrid Alfvén  
resonant mode  
generation in the ...**

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**Nonlinear whistler  
wave scattering in  
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The dynamical  
response of electrons  
to distortions of the  
magnetic field in the  
unmagnetized ion limit  
is described by whistler-  
mode waves rather

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than Alfvén waves.  
Whistler-mode waves  
are...

**Rapid magnetic  
reconnection in the  
Earth's  
magnetosphere ...**

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