

Study of the wave structure induced by K-H instability in Venus ionosphere

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Two-dimensional Hybrid simulation on the entire Venus-solar wind interaction shows that the distribution of ionopause surface waves generated by Kelvin-Helmholtz instability exhibits a clear asymmetry on the direction of solar wind motional electric field to understand global dynamics in the Venus ionosphere, it is important to take two-dimensional imagery of the resonance scattering emission of oxygen ions.

We resolve a relationship between macroscopic scales of wave structure due to K-H Instability and IMF direction, solar zenith angle, and the direction of induced electric field by examining altitude profile of OII density observed by Pioneer Venus Orbiter (PVO).