

The study of the relations between Doppler velocities and backscattering echoes by the Chung-Li VHF radar

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The intense observations of nighttime E-region irregularities made at the Chung-Li VHF radar indicate that there exists a strong correlation between the enhancement of backscattering echoes and the upward Doppler shift. These events can be readily explained by the local theory [Kelley, 1989; Kagan and Kelley, 1998] in which the neutral wind plays a role of importance. In this present, interferometry results associated with echoes correlation will also be shown.