

G.6 Doppler Ionosonde Observations of Ionospheric Movement

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The KEL IPS71 ionosonde has the ability to record rapid high-resolution Doppler ionograms. Observations of three types of ionospheric phenomena made possible with this ionosonde are shown. The first is a virtual velocity map of vertical motion in the ionosphere derived from 5 minute sampling and associated values h'F1, hpF2, foE, foF1 and foF2. The second is the occurrence of sporadic E with non-spread and spread Doppler characteristics with associated fxEs and h'E. The third consists of snapshots of short-period TIDs observed simultaneously in Doppler as well in the usual h'/ frequency plots.