

Atmospheric Wave Impacts on the Ionosphere via Multiple Coupling Pathways
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Wave-like patterns in the density and velocity of the ionosphere that look like and are correlated with the presence of atmospheric waves have been reported in a wide range of observations. Such features offer an opportunity to test our understanding of ion-neutral coupling as there are multiple pathways through which waves in the atmosphere can modify the ionosphere. A serendipitous case study using ground- and space-based observations in which the coupling pathways could be identified will be discussed. The way in which the upcoming ICON and GOLD mission will enable new explorations of these mechanisms will be discussed.