## The Dayside Ionospheric Superfountain: Observations and Modeling

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Promptly penetrating interplanetary electric fields cause the uplift of the dayside equatorial/near-equatorial ionosphere with the consequences of plasma transport to middle latitudes and the formation of a new ionosphere. Ground and satellite GPS observations illustrating this effect will be shown. Efforts to quantitatively match simulations to the observations are currently being undertaken. Recent progress will be reviewed.