



Stationary Reflectors in the Martian Ionosphere

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Probing the Martian ionosphere by the low frequency radar MARSIS on board the Mars Express orbiter, has demonstrated the presence of stationary reflectors in the ionosphere. Analysis of reflections with varying nadir angle combined with the dynamics of the spacecraft, as well as analysis of the spatial variations of the inverted ionograms, yield the locations of the reflectors. The reflector locations are related to the crustal magnetic field.