

## A Comparison of Real-Time Ionospheric Models

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### Abstract

An accurate real-time ionospheric map is important for many applications of radio science including coordinate registration in an over-the-horizon radar, frequency management for high frequency communications links and mitigation for radio astronomy. There are many ways to go about mapping the ionosphere. A Monthly Median Model could be used, however it is rarely adequate and needs real-time data to make the map useable. Since a large amount of data is needed to produce the required accuracy, it is convenient to use ionograms from off the shelf Vertical Incidence Sounders. Two different schemes for parameterising the ionograms and converting the information into a usable ionospheric map are presented and compared.