



A method for automatic detection of spread F on ionograms

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A method for automatic detection of spread F is presented. The method is based on image recognition technique and is applied to the ionograms recorded at the ionospheric station of Tucuman (Argentina). The performance obtained are statistically evaluated and shown with significative examples. The method is addressed to the ionograms recorded at equatorial latitudes but in principle can be applied to polar and middle latitude ionograms. The analysis of data is a retrospective study and is the base for a real time application as an extension of Autoscala capabilities. The correlation with scintillation phenomena observed by GPS receivers is also marginally considered.