QUESTION ITU-R 221-2/3

Propagation by way of sporadic E and other ionization

(1990-2009-2012)

The ITU Radiocommunication Assembly,

considering

*a)* that the available information on terrestrial propagation by sporadic E and other ionization is insufficient to provide statistical data of the type needed by telecommunication engineers, especially at low and high latitudes;

*b)* that ionospheric irregularities including meteor ionization in the E region and the F region can affect the performance of radio systems;

*c)* that suitable methods for estimating sky-wave field strength and signal dispersion are required by:

– administrations, in connection with the establishment and operation of radio systems;

– the Radiocommunication Bureau, for further refinement of its technical standards contained within the Rules of Procedure;

– the Radiocommunication Sector, in connection with future Radiocommunication Conferences,

decides that the following Questions should be studied

1What are the characteristics of sporadic-E (Es) ionization and how do these affect oblique incidence propagation in the HF and VHF bands?

2 What are the mechanisms for VHF and UHF propagation by the ionosphere and how can the statistics of the propagation characteristics be predicted?

further decides

1that the available information should be prepared as new Recommendations, or as revisions to existing Recommendations;

2 that the above studies should be completed by 2015.

Category: S3