QUESTION ITU-R 222-5/3

Measurements and data banks of ionospheric characteristics and radio noise

(1990-1993-2000-2000-2009-2012-2016)

The ITU Radiocommunication Assembly,

considering

*a)* that measurements of signal characteristics and of the ionosphere as a propagation medium are essential for the further improvement of methods of radiowave propagation prediction;

*b)* that many ionospheric measurements were made in the past, but that the ionosphere has been subject to long term secular changes in morphology and characteristics and that there is now an increased understanding of ionospheric phenomena;

*c)* that radio noise is now being produced from new and developing man-made sources and this is likely to affect the performance of radiocommunication systems and networks;

*d)* that the prediction of performance of systems using digital technologies requires new types of measurement and the collection in new databanks;

*e)* that various organisations and agencies maintain databanks of measurements of ionospheric characteristics;

*f)* that measurements of signal characteristics, useful for the evaluation of prediction procedures, etc., may not be consistently collected in databanks elsewhere,

decides that the following Questions should be studied

1 What characteristics of the ionosphere, of signal propagation through or via the ionosphere and of radio noise are appropriate for inclusion in databanks maintained and developed by ITU‑R Study Group 3?

2 What data collection, analysis, standardization, compilation and dissemination procedures are best suited for current ITU-R purposes?

further decides

1 that Radiocommunication Study Group 3 should develop and maintain databanks of measurements of ionospheric propagation, of ionospheric characteristics and of radio noise identified in answering this Question;

2 that the above studies should be completed by 2027.

Category: S3