QUESTION ITU-R 237/7

Technical and operational factors relating to interference
mitigation practices at radio astronomy stations

(2001)

The ITU Radiocommunication Assembly,

considering

a) that radio astronomy stations are designed to detect natural emissions at extremely low power levels; their operation may therefore be degraded by interference at levels that could be tolerated by other services;

b) that a variety of mitigation techniques may be used to reduce the susceptibility of radio astronomy stations to the effects of interference in observational data;

c) that the use of mitigation techniques entails in many cases a loss of data and observing time, a loss of observational flexibility, and a general reduction in the level of service to users of radio astronomy stations;

d) that recent technological developments create new possibilities for mitigating interference by means of digital techniques and operational procedures,

decides that the following Question should be studied

1 What are the technical and operational characteristics of the mitigation techniques that are being identified for use by radio astronomy stations?

2 What are the consequences and the technical limitations for the use of identified mitigation techniques and which of these techniques may be applied in practice?

further decides

1 that the results of the above studies should be included in (a) Recommendation(s);

2 that the above studies should be completed by 2027.

Category: S2