

QUESTION ITU-R 235-1/7*

Technical and operational characteristics of applications of science services operating above 275 GHz*****

(2000-2006)

The ITU Radiocommunication Assembly,

considering

- a) that the spectrum in many of the frequency bands used for space radiocommunication is increasingly congested and this problem is expected to get worse;
- b) that some current space research, Earth exploration, meteorological and astronomical systems utilize frequencies above 275 GHz and additional ones are planned;
- c) that communication links are being used or planned for some satellite systems for inter-satellite communications at frequencies above 275 GHz;
- d) that extensive research has already been done and standards established on the hazards of radiation at frequencies above 275 GHz through the International Electrotechnical Commission in standard IEC 60825-1 and the American National Standards Institute in standard ANSI Z136.1-1993;
- e) that at frequencies above 275 GHz, sharing between services is not precluded;
- f) that the study of Questions by Radiocommunication Study Groups includes the following:
 - use of the radio-frequency spectrum in space radiocommunication;
 - characteristics and performance of radio systems;
 - operation of radio systems,

decides that the following Question should be studied

- 1** What are the technical and operational characteristics of systems operating at frequencies above 275 GHz within the science services?
- 2** Are sharing studies required for systems operating at frequencies above 275 GHz within the science services?

* In the year 2009, Radiocommunication Study Group 7 extended the completion date of studies for this Question.

** As used in this Question, the phrase “Science services” refers to Earth exploration-satellite (EESS), space research (SRS), space operation (SOS), radio astronomy (RAS), meteorological-satellite (MetSat), and meteorological aids (MetAids) services.

*** The frequency spectrum above 275 GHz is currently not allocated (see also No. 5.565 of the Radio Regulations).

further decides

- 1** that the results of studies above 275 GHz should be brought to the attention of the other Study Groups;
- 2** that the results of the above studies should be included in (a) Recommendation(s) or (b) Reports;
- 3** that the results of the studies should lead to the formulation of appropriate Recommendations or Reports by 2010.

Category: S2