

QUESTION ITU-R 236/4

Interference criteria and calculation methods for the fixed-satellite service

(1995)

The ITU Radiocommunication Assembly,

considering

- a) that the Radiocommunication Bureau (BR), in carrying out its duties under Articles 9 and 11 of the Radio Regulations, is required to calculate potential interference between networks of all types in the fixed-satellite service and to compare the results of such calculations with appropriate criteria;
- b) that the BR has requested guidance from Study Group 4 on the methods to be employed for the calculation of the interference within the fixed-satellite service (FSS), and on the criteria to be used for comparison;
- c) that a similar BR request in respect of interference between FSS networks and networks of the fixed service has been addressed to Working Party 4-9S;
- d) that it would be convenient for the BR to have a single document containing the calculation methods and criteria applicable to all combinations of interfering and victim FSS carrier types, in as concise a form as practicable;
- e) that interference criteria and calculation methods are currently available in ITU-R Recommendations for most, but not all, combinations of carrier types in the FSS;
- f) that most, but not all, of the available FSS interference criteria and calculation methods are currently summarized in Recommendation ITU-R S.741;
- g) that Recommendation ITU-R S.1150 gives guidance on circumstances in which the probability of harmful interference between FSS carriers can be considered to be negligible,

decides that the following Question should be studied

- 1** Which combinations of interfering and victim FSS carrier types are covered by other ITU-R texts on interference calculation methods and criteria but not included in Recommendation ITU-R S.741?
- 2** To what extent does Recommendation ITU-R S.741 present the FSS interference calculation methods and criteria available elsewhere in Study Group 4 texts, in a form which can be used by the BR without the need to refer to those texts?
- 3** Which combinations of interfering and victim FSS carriers are not currently covered by Study Group 4 texts describing interference criteria and/or calculation methods, and what criteria and calculation methods are appropriate for such combinations?
- 4** What should be the structure and status of a single document, designed for use by the BR in carrying out its duties under RR Articles 9 and 11, and containing the outcome of *decides* 3?

further decides

- 1** that the results of these studies should lead:

- a) to an update of Recommendation ITU-R S.741 in respect of *decides* 1 and 2, and
 - b) to answers to the questions in *decides* 3 and 4 as and when additional criteria and calculations are developed in the normal course of the work of Study Group 4.
- 2 that the above studies should be completed by 2006.
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