QUESTION ITU-R 87-4/4[[1]](#footnote-1)\*

Transmission characteristics for a mobile-satellite  
communication system

(1988-1990-1992-1993-2007)

The ITU Radiocommunication Assembly,

considering

*a)* that currently the International Maritime Organization (IMO) has recognized only one provider of mobile-satellite communications (Inmarsat) for the GMDSS;

*b)* that other organizations offer or plan to offer international or domestic mobile-satellite services;

*c)* that modulation techniques and systems should be robust under fading and shadowing conditions;

*d)* that the efficiency of orbit-spectrum utilization in mobile-satellite systems will be determined in part by the technical characteristics employed, such as modulation methods and parameters, impact of frequency reuse techniques or the arrangement of radio-frequency carriers,

decides that the following Questions should be studied

1 What are the preferred transmission characteristics for the following systems:

1.1 land mobile-satellite systems;

1.2 maritime mobile-satellite systems, including GMDSS;

1.3 aeronautical mobile-satellite systems;

1.4 mobile-satellite systems incorporating a combination of two or more of the above systems?

2 What are the technically preferred multiple access, modulation and coding methods for such systems?

3 What are the preferred performance characteristics of earth stations and space stations for such systems?

4 What transmission characteristics could be common to facilitate compatibility between the land, maritime, and aeronautical mobile-satellite services?

further decides

1 that the results of the above studies should be included in appropriate Recommendations and/or Reports;

2 that the above studies should be completed by 2027.

Category: S2

1. \* This Question should be brought to the attention of the International Maritime Organization (IMO). [↑](#footnote-ref-1)