QUESTION ITU-R 205-1/4[[1]](#footnote-1)\*

Frequency sharing between non-geostationary satellite feeder links in the fixed‑satellite service used by the mobile-satellite service

(1993-1995)

The ITU Radiocommunication Assembly,

considering

*a)* that the World Administrative Radio Conference For Dealing With Frequency Allocations in Certain Parts of the Spectrum (Málaga-Torremolinos, 1992) (WARC-92) adopted primary mobile‑satellite service (MSS) allocations in the 1 to 3 GHz frequency range on a shared primary basis with other radio services;

*b)* that the useof the primary MSS allocation referred to in considering a) is subject to coordination under No. **9.11A**;

*c)* that there are other MSS allocations;

*d)* that non-geostationary satellite orbit (non-GSO) systems implementing these MSS allocations may use the fixed-satellite service (FSS) allocations for feeder links;

*e)* that the feeder links for these MSS non-GSO systems are considered part of the FSS;

*f)* that the frequency and technical characteristics of such feeder links for the non-GSO MSS systems may depend on the technical characteristics of such systems using the MSS frequency bands;

*g)* that several of these non-GSO MSS systems may use the same FSS frequency band for their feeder links;

*h)* that studies of interference mechanisms between non-GSO networks in the respective MSS and the FSS allocated bands have commenced but are not complete;

*i)* that the permissible interference criteria used for geostationary FSS networks may not be applicable to the FSS feeder links for non-GSO MSS systems,

decides that the following Questions should be studied

1 What are the updated technical characteristics of the FSS feeder link used by the non-GSO MSS systems?

2 What are the permissible interference criteria between FSS feeder links used by the non‑GSO MSS systems taking into account the impact on the MSS?

3What are the other general constraints (including number of systems) under which sharing is feasible between the feeder-links of two or more non-GSO MSS systems?

4What are the spectrum sharing possibilities and technical solutions that are available to permit the sharing of frequencies between FSS feeder links used by non-GSO MSS systems?

5What are the appropriate coordination methods for sharing between the feeder-links of two or more non-GSO MSS systems?

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. \* Radiocommunication Study Group 4 made editorial amendments to this Question in the year 2023 in accordance with Resolution ITU-R 1. [↑](#footnote-ref-1)