qUESTION ITU-R 272/4[[1]](#footnote-1)\*

Frequency sharing between the FSS and the space research service
in the 37.5-38 GHz and 40-40.5 GHz bands

(2005)

The ITU Radiocommunication Assembly,

considering

*a)* that the 37.5-38 and 40-40.5 GHz bands are allocated to the FSS;

*b)* that the bands, or portions thereof, are also allocated to the space research, fixed, mobile, Earth exploration-satellite and mobile-satellite services;

*c)* that the band 37.5-38 GHz is shared, *inter alia*, between the FSS (space-to-Earth) and the space research service (SRS) (space-to-Earth) on a primary basis;

*d)* that the band 40.0-40.5 GHz is shared, *inter alia*, between the SRS (Earth-to-space) and the FSS (space-to-Earth) on a primary basis;

*e)* that the use of the band 37.5-38 GHz by the SRS may include the reception of signals at earth stations from manned Lunar-based and planetary-based stations, and from space very long baseline interferometry (S-VLBI) satellites;

*f)* that the use of the band 40-40.5 GHz by the SRS may include the transmission of signals from earth stations for reception by manned Lunar-based and planetary-based stations, and for telecommand and precise reference signals used for S-VLBI satellites;

*g)* that geostationary (GSO) and non-geostationary (non-GSO) FSS satellite systems are expected to be introduced into the bands 37.5-38 GHz and 40-40.5 GHz,

decides that the following Question should be studied

What are the criteria and techniques to facilitate sharing between systems operating in the SRS and the FSS in the bands 37.5-38 GHz and 40-40.5 GHz?

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 Radiocommunication Study Groups 5 and 7. [↑](#footnote-ref-1)