

## RESOLUTION 776 (WRC-19)

**Conditions for the use of the frequency bands 71-76 GHz and 81-86 GHz  
by stations in the satellite services to ensure compatibility with passive services**

The World Radiocommunication Conference (Sharm el-Sheikh, 2019),

*considering*

- a) that WRC-2000 made a number of different allocation changes to the frequency bands 71-76 GHz and 81-86 GHz based on the requirements known at the time;
- b) that the frequency band 71-76 GHz is also allocated to the fixed-satellite service (FSS) (space-to-Earth) and the mobile-satellite service (MSS) (space-to-Earth) and the frequency band 74-76 GHz is allocated to the broadcasting-satellite service;
- c) that the frequency band 81-86 GHz is also allocated to the FSS and MSS (Earth-to-space);
- d) that the frequency bands 76-77.5 GHz, 79-81 GHz and 81-86 GHz are allocated to the radio astronomy service (RAS) on a primary basis;
- e) that the frequency band 86-92 GHz is allocated to the Earth exploration-satellite service (EESS) (passive), the space research service (SRS) (passive) and the RAS, and that No. **5.340** applies in this frequency band;
- f) that compatibility conditions between satellite services in the frequency bands 71-76 GHz and 81-86 GHz and passive services in the frequency bands and in adjacent frequency bands could not be fully developed at WRC-2000 due to lack of available information on satellite services at the time;
- g) that WRC-12 already addressed sharing and compatibility issues between the fixed service and passive services in the frequency bands 71-76 GHz and 81-86 GHz and relevant adjacent frequency bands;
- h) that Resolution **750 (Rev.WRC-19)** contains no provisions to protect the EESS (passive) in the frequency band 86-92 GHz from emissions of the space services in the frequency band 81-86 GHz;
- i) that Resolution **739 (Rev.WRC-19)** contains no provisions to protect the RAS in adjacent frequency bands from emissions of the space services in the frequency bands 71-76 GHz and 81-86 GHz,

*recognizing*

- a) that there are an increasing number of satellite filings in the frequency bands 71-76 GHz and 81-86 GHz;
- b) that Resolution **731 (Rev.WRC-19)** calls for consideration of sharing and adjacent-band compatibility between passive and active services above 71 GHz;

**RES776-2**

*c)* that Resolution **750 (Rev.WRC-19)** already contains necessary provisions to protect passive services in the frequency bands and adjacent frequency bands from emissions of the fixed service in the frequency bands 71-76 GHz and 81-86 GHz, and there is no intention to change these provisions;

*d)* that there is no intention to change the existing allocations or status of those allocations in Article **5** of the Radio Regulations for the frequency bands 71-76 GHz and 81-86 GHz,

*resolves to invite the ITU Radiocommunication Sector*

to conduct the appropriate studies to determine the technical conditions for satellite services in the frequency band 81-86 GHz in order to protect the EESS (passive) and the SRS (passive) in the frequency band 86-92 GHz and the RAS in the frequency bands mentioned in *considering d)* and *e)* without unduly constraining satellite systems,

*invites the 2027 World Radiocommunication Conference*

to consider the results of studies and take necessary action,

*invites administrations*

to participate actively in the studies by submitting contributions to the ITU Radiocommunication Sector.