

RESOLUTION 754 (WRC-07)

Consideration of modification of the aeronautical component of the mobile service allocation in the 37-38 GHz band for protection of other primary services in the band

The World Radiocommunication Conference (Geneva, 2007),

considering

- a) that the band 37-38 GHz is allocated on a primary basis to the fixed, mobile and space research (space-to-Earth) services, and the 37.5-38 GHz portion of this band is also allocated on a primary basis to the fixed-satellite service (space-to-Earth);
- b) that an aeronautical mobile station can cause unacceptable interference to receivers in the fixed service (including high-density applications), as well as land mobile, maritime mobile and fixed-satellite (space-to-Earth) receivers within line-of-sight;
- c) that an aeronautical mobile station can cause unacceptable interference to receivers in the space research service whenever it is within line-of-sight of the receiver, as indicated in Recommendation ITU-R SA.1016;
- d) that interference from the emissions of an aeronautical mobile station to a space research service earth station receiver may significantly exceed the permissible interference levels for extended periods of time, thus jeopardizing the success of a space mission,

recognizing

- a) that the Table of Frequency Allocations already excludes the operation of aeronautical mobile stations in the bands 2.29-2.3 GHz, 8.4-8.5 GHz and 22.21-22.5 GHz where the mobile service is co-allocated on a primary basis with the space research service (space-to-Earth), and in the 31.5-31.8 GHz band where the mobile service is allocated on a secondary basis;
- b) that the Table of Frequency Allocations also already excludes the operation of aeronautical mobile stations in many bands where the mobile service is co-allocated on a primary basis with the fixed service, such as in the band 11.7-12.5 GHz and the fixed service and the fixed-satellite service (space-to-Earth), such as 7 300-7 750 MHz;

RES754-2

c) that No. **5.547** indicates that the 37-38 GHz band is available for high-density applications in the fixed service;

d) that use of the 37-38 GHz band is required to support the increased data requirements of planned manned and scientific missions,

noting

a) that aeronautical mobile service systems are currently neither deployed nor planned in the 37-38 GHz band;

b) that sharing studies between the space research service (space-to-Earth) and the aeronautical mobile service have already begun,

resolves

1 to invite ITU-R to conduct appropriate studies involving the aeronautical mobile service and the affected primary services in the band 37-38 GHz in order to determine the compatibility of the aeronautical mobile service with these other services;

2 to invite WRC-11 to review the results of the studies under *resolves* 1 and consider the inclusion of any appropriate compatibility criteria within the Radio Regulations or appropriate modifications to the Table of Frequency Allocations,

invites ITU-R

to complete the necessary studies, as a matter of urgency, taking into account the present use of the allocated band, with a view to presenting, at the appropriate time, the technical information likely to be required as a basis for the work of the Conference,

invites administrations

to contribute to the compatibility studies between the aeronautical mobile service and the other services in the 37-38 GHz band,

instructs the Director of the Radiocommunication Bureau

to bring this Resolution to the attention of the international and regional organizations concerned.