

## RESOLUTION 551 (WRC-07)

**Use of the band 21.4-22 GHz for broadcasting-satellite service  
and associated feeder-link bands in Regions 1 and 3**

The World Radiocommunication Conference (Geneva, 2007),

*considering*

- a) that WARC-92 allocated the band 21.4-22.0 GHz in Regions 1 and 3 to the broadcasting-satellite service and the allocation came into effect on 1 April 2007;
- b) that after 1 April 2007 the introduction of BSS (HDTV) systems in this band should be regulated in a flexible and equitable manner until such time as a future competent world radiocommunication conference has adopted definitive provisions for this purpose in accordance with Resolution **507 (Rev.WRC-03)**;
- c) that the interim use of this band by the broadcasting-satellite service is subject to the provisions of Resolution **525 (Rev.WRC-07)**;
- d) that future BSS systems in the band 21.4-22.0 GHz may provide extremely high resolution imagery (EHRI) applications as shown in Recommendation ITU-R BT.1201 and Report ITU-R BT.2042;
- e) that, based on its studies, ITU-R has established basic operating parameters of BSS systems in this band, including methods of overcoming attenuation in countries with higher rainfall (Recommendation ITU-R BO.1659 and Report ITU-R BO.2071);
- f) that in the band 21.4-22.0 GHz in Regions 1 and 3, reference power flux-density for the BSS has been developed and given in Recommendation ITU-R BO.1776;
- g) that in the band 21.4-22.0 GHz in Regions 1 and 3, intra-service sharing criteria for GSO BSS systems have been developed and given in Recommendation ITU-R BO.1785;
- h) that *a priori* planning is not necessary and should be avoided as it freezes access according to technological assumptions at the time of planning and then prevents flexible use taking account of real world demand and technical developments;
- i) that interim arrangements for the use of the bands are on a first-come-first-served basis;
- j) that further study is needed for the spectrum usage of the band 21.4-22.0 GHz in Regions 1 and 3,

**RES551-2**

*noting*

that Resolution **525 (Rev.WRC-07)** identifies interim procedures for introduction of HDTV BSS systems in the band 21.4-22 GHz in Regions 1 and 3,

*resolves*

1 that ITU-R continue technical and regulatory studies on harmonization of spectrum usage, including planning methodologies, coordination procedures or other procedures, and BSS technologies, in preparation for WRC-11, in the 21.4-22 GHz band and the associated feeder-link bands in Regions 1 and 3, taking into account *considering h) and i)*;

2 that WRC-11 review the results of the studies and decide the usage of the 21.4-22 GHz band and the associated feeder-link bands in Regions 1 and 3,

*invites administrations*

to participate in ITU-R studies by providing contributions.