

## RESOLUTION 672 (WRC-07)

**Extension of the allocation to the meteorological-satellite service in the band 7750-7850 MHz**

The World Radiocommunication Conference (Geneva, 2007),

*considering*

- a) that the band 7750-7850 MHz is allocated to the fixed, the meteorological-satellite (space-to-Earth) and the mobile services;
- b) that this band is currently used by non-geostationary polar orbiting meteorological satellites transmitting typically in data dump modes to large earth stations;
- c) the maximum contact times between satellites and corresponding earth stations occur at high latitudes resulting in optimum deployment of such earth stations at high latitudes in the northern and the southern hemispheres;
- d) that the bandwidth requirements for transmission of data from high-resolution sensors on the next-generation non-geostationary meteorological satellites planned to be launched in the time-frame 2017-2020 are in excess of 100 MHz;
- e) that an extension of the current allocation by 50 MHz would be necessary to accommodate future data transmission requirements;
- f) that the band 7850-7900 MHz is allocated to exactly the same services as the band 7750-7850 MHz and would be a prime candidate for extension of the current allocation to the meteorological-satellite service;
- g) that ITU-R studies conducted prior to WRC-97 concluded that sharing between the meteorological-satellite service and the fixed service is possible with ample margins resulting to the allocation of the band 7750-7850 MHz,

*recognizing*

- 1 that the data obtained by these meteorological satellites are essential for global weather forecast, climate changes and hazard predictions;
- 2 that existing systems need to be duly protected,

## RES672-2

*resolves*

1 to invite ITU-R to conduct sharing analyses between non-geostationary meteorological satellites operating in the space-to-Earth direction and the fixed and mobile services in the band 7850-7900 MHz with a view to extending the current allocation in the space-to-Earth direction to this band;

2 to recommend that WRC-11 review the results of the studies under *resolves* 1;

3 to make appropriate modifications to the Table of Frequency Allocations with respect to *resolves* 1, based on proposals from administrations,

*invites administrations*

to contribute to the sharing studies between the meteorological-satellite service and the fixed and mobile services in the frequency range 7850-7900 MHz,

*invites ITU-R*

to complete the necessary studies, taking into account the present use of allocated bands, with a view to presenting its results to WRC-11.