

Radio Conference Subcommittee (RCS)
Preparation for ITU World Radiocommunication Conferences

UNITED STATES

DRAFT PRELIMINARY VIEW ON WRC-11

AGENDA ITEM 1.24

AGENDA ITEM 1.24: to consider the existing allocation to the meteorological-satellite service in the band 7 750-7 850 MHz with a view to extending this allocation to the band 7 850-7 900 MHz, limited to non-geostationary meteorological satellites in the space-to-Earth direction, in accordance with Resolution **672 (WRC-07)**.

ISSUES: Resolution **672 (WRC-07)** considers expanding the existing meteorological-satellite service allocation in the 7 750-7 850 MHz band by 50 MHz to support the transmission of data from high-resolution sensors on the next-generation non-geostationary meteorological satellites.

BACKGROUND: Meteorological satellites operating in the 7 750-7 850 MHz band provide data essential for global weather forecast, climate changes, and hazard predictions. The transmission of data from high-resolution sensors on the next generation non-geostationary meteorological satellites will require more than the currently allocated 100 MHz of spectrum.

The ITU-R is studying sharing between non-geostationary meteorological satellites operating in the space-to-Earth direction and the fixed and mobile services. The ITU-R is also studying required power flux-density limits on non-geostationary meteorological-satellite space-to-Earth transmissions in the 7 850-7 900 MHz band needed to protect the terrestrial services. The outcome of this agenda item may result in consequential changes to Appendix 7 on methods for the determination of the coordination area around an earth station.

U.S. VIEW: If studies identified in Resolution **672 (WRC-07)** indicate that sharing is feasible between the meteorological-satellite service and existing allocated services in the band 7 850-7 900 MHz, the United States supports the allocation of this additional spectrum with appropriate regulatory constraints on the meteorological-satellite service to protect the fixed and mobile services.
