

UNITED STATES OF AMERICA
DRAFT PROPOSALS FOR THE WORK OF THE CONFERENCE

Agenda Item 1.1: *to consider additional spectrum allocations to the mobile service on a primary basis and identification of additional frequency bands for International Mobile Telecommunications (IMT) and related regulatory provisions, to facilitate the development of terrestrial mobile broadband applications, in accordance with Resolution 233 (WRC-12)*

Background Information: The ITU-R is considering the band 1 435-1 525 MHz as a potential candidate for a new mobile service allocation under the 2015 World Radiocommunication Conference agenda item 1.1. Some administrations utilize the band 1 435-1 525 MHz for flight-testing in the Americas. The band is critical for aerospace research and development, and aircraft safety standards certification. Flight testing requires real-time data for the protection of the pilot and aircrew, test aircraft, and people and property on the ground. Administrations performing such flight testing require transmission of this data in interference-free frequency bands to minimize the chance of disruption to critical safety communications. Thus, the use of the band 1 435-1 525 MHz for aeronautical mobile telemetry (AMT) systems is essential for the aerospace manufacturing industry in the Americas.

No. **5.343** provides that “[i]n Region 2, the use of the band 1 435-1 525 MHz by the aeronautical mobile service for telemetry has priority over other uses by the mobile service.”

ITU-R compatibility studies show that co-frequency sharing of IMT with AMT systems in Region 2, in the absence of very large exclusion zones, is not practical. This result is consistent with a study performed independently for Region 1 by another administration. The two studies independently arrive at comparable, very large protection distances (e.g. over 100 km in the case of IMT to AMT interference, and over 365 km in the case of AMT to IMT interference). Therefore, Region 2 requires no change to the table of allocations.

Proposal:

NOC

USA/1.1/1

ARTICLE 5
Frequency allocations
1 300-1 525 MHz

Allocation to Services		
Region 1	Region 2	Region 3
...	1 429-1 452 FIXED MOBILE 5.343 5.338A 5.341	
...	1 452-1 492 FIXED MOBILE 5.343 BROADCASTING BROADCASTING-SATELLITE 5.208B 5.341 5.344 5.345	
...	1 492-1 518 FIXED MOBILE 5.343 5.341 5.344	...
...	1 518-1 525 FIXED MOBILE 5.343 MOBILE-SATELLITE (space-to-Earth) 5.348 5.348A 5.348B 5.351A 5.341 5.344	...

Reasons: Based on studies submitted in ITU-R, co-frequency sharing between IMT and AMT is not practical. Due to the need for continued use of AMT within Region 2, the band 1435-1525 MHz should not be identified for IMT use in Region 2.