

# WRC-15 Position for AFC

AFC Fall 2015 – Montreal



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6-7 Oct 2015

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### **AFC WRC-15 Positions**

- Review the relevant agenda items
- Confirm prioritization and positions
- Seek opinions on future agenda items



#### **WRC-15**

- 2-27 November 2015, Geneva, Switzerland
   Last WRC was in Feb 2012
  - ASRI sending 2 personnel (US Del and Sector)
- 15 Agenda Items relevant to AFC

   Prioritized to 6 agenda items
   Consideration of future agenda items
- Proposed positions broadly follow that of ICAO, IATA and US
- Some fun items on the list
   IMT, UAS, & GFT



### Topics to be covered

- Prioritization split into high and important items

   Limits of personnel/time
- High
  - 1.1 IMT
  - GFT Global Flight Tracking
- Important
  - 1.4 Amateur HF
  - 1.5 UAS
  - 1.7 AeroMACS
  - -1.17 WAIC



### WRC Process - Recap

- Begins at the previous conference with new agenda items for the next WRC
- New agenda items are assigned to a relevant ITU-R Working Party (WP)
- Several ITU-R Recommendations and Reports to support the development of the work
- In the 12 months before the WRC, a Conference Preparatory Meeting (CPM) is held
- Final CPM text is a template for the WRC
- ITU-R Radio Regulations are updated once with agreements from the WRC

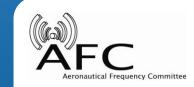


### 1.1 - IMT

- New allocations for IMT shared with existing users between 400 MHz to 6 GHz
  - Dedicated JTG process
- Potential aviation systems affected

   PSRs (1.3-1.35 & 2.7-2.9 GHz)
   Adjacent bands to radio altimeter (4.2-4.4 GHz)
- AFC Position

Oppose changes that will affect aviation



# **GFT – Global Flight Tracking**



- Possible options to support GFT
  - Focused on ADS-B over satellite by modifying existing ADS-B allocation at 1090 MHz
- Introduced at last minute after MAH370

   Process is creating some opposition and concerns
- AFC Position
  - Support necessary allocation
  - Must show compatibility with existing ARNS systems and ITU-R procedures
  - No changes to the aircraft equipage
  - Reliability is appropriate for an AMS(R)S allocation



# 1.4 – Amateur HF

- New amateur allocation in the 5 MHz range
   Adjacent to Aero HF allocation
- Studies not fully considered aero HF systems

   Opposition from other countries using the same freq range
- AFC position
  - Seek minimum of 20 kHz of separation



## 1.5 – UAS over satellite

- Use of FSS for UAS command links
   Remote and oceanic control requirements
- Quickly turned into a political football

   Strong views have prevented progress
   Work remains unfinished
- AFC Position
  - Support UAS operations over satellite
  - Preference for an AMS(R)S allocation



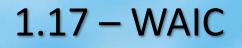
### 1.7 – AeroMACS interference levels



- FSS in 5091-5150 MHz increasing allowable interference from AeroMACS
  - Would also allow FSS allocation to become permanent
- Both sides want the same outcome
  - Existing AeroMACS plans unlikely to interfere with satellites
- AFC Position

Support FSS allocation for increase in AeroMACS interference levels



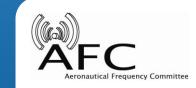


- New concept for internal wireless network on an aircraft
  - Boeing/Airbus concept system
- Sought to reuse existing aviation spectrum
   Radio altimeter band most suitable
- AFC Position
  - Support WAIC systems
  - Guaranteed radio altimeter protection



#### **Future Agenda Items**

- GADSS
- IMT above 6 GHz
- Space planes
- C-band IMT





# Questions?



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