

NOAA Spectrum Management and Planning

CORF 2007 Meeting

25 April 07

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WRC-07 Frequency Concerns

□ Agenda Item 1.2

- Expansion of existing 18.1-18.3 GHz geostationary metsat allocation
- Additional 500 MHz sought to accommodate increased data rates from next-generation sensors
- Preference is for common allocation in all 3 ITU regions

WRC-07 Frequency Concerns

□ Agenda Item 1.4

- NOAA weather radars operating in 2.7-2.9 GHz under threat from next-generation cell phones
- Need to remove this band from consideration by IMT-2000 proponents

WRC-07 Frequency Concerns

□ Agenda Item 1.8

- High Altitude Platform Stations (HAPS) operations adjacent to 31.3-31.5 GHz exclusively passive band
- Maintain unchanged the existing footnote 5.543A that limits HAPS unwanted power density levels into HAPS ground station antennas

WRC-07 Frequency Concerns

□ Agenda Item 1.12

- Consider changes to filing procedures for satellite network frequency assignments
- Support changes that would maintain passive and active sensor frequencies in ITU-R satellite data bases

WRC-07 Frequency Concerns

□ Agenda Item 7.2

- Consideration of items for next WRC
- Support allocation for NOAA HF radars using 4.5 MHz (± 150 kHz), 13 MHz (± 250 kHz) and 25 MHz (± 300 kHz) used for measurement of ocean surface currents

WRC-07 Frequency Concerns

- ❑ NOAA's concerns for passive sensing agenda items support those of NASA
- ❑ Protection of 23.6-24 GHz, 31.3-31.5 GHz and 50.2-50.4 GHz important for numerical weather prediction models
- ❑ 50.2-50.4 GHz most critical for temperature soundings of the atmosphere

Passive Microwave Workshop

- 3rd Passive Microwave Workshop 1-2
May 07 in SSMC3, Silver Spring, MD
- Main thrusts
 - To conclude on use of passive sensor allocations for measurement of atmospheric and surface properties
 - Use this information to update 3 ITU-R RS passive recommendations