

# NOAA Spectrum Management and Planning

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CORF 2007 Meeting

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# WRC-07 Frequency Concerns

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## ☐ 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

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- ❑ 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

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# WRC-07 Frequency Concerns

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- 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

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# WRC-07 Frequency Concerns

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- 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

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# WRC-07 Frequency Concerns

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- Agenda Item 7.2
  - Consideration of items for next WRC
  - Support allocation for NOAA HF radars using 4.5 MHz ( $\pm 150$ kHz), 13 MHz ( $\pm 250$  kHz) and 25 MHz ( $\pm 300$  kHz) used for measurement of ocean surface currents

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# WRC-07 Frequency Concerns

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- ❑ 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

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# Passive Microwave Workshop

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- 3<sup>rd</sup> 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