



# International Amateur Radio Union Region 1

Europe, Middle East, Africa and Northern Asia

Founded 1950



## General Conference, Davos, 11 to 16 September 2005

|                   |  |                      |                          |
|-------------------|--|----------------------|--------------------------|
| <b>SUBJECT</b>    | <b>Harmonising the 76GHz band in IARU Region 1</b> |                      |                          |
| <b>Society</b>    | <b>RSGB</b>  | <b>Country:</b>      | <b>United Kingdom</b>    |
| <b>Committee:</b> | <b>C5</b>  | <b>Paper number:</b> | <b>41</b>                |
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### Considering that:

- A European Commission Decision (2004/545/EC) has been made to harmonise automobile UWB SRR in the 79GHz band (identified by CEPT as suitable for this purpose) as soon as possible, and, similarly Decision 2005/50/EC for interim use of the 24GHz band,
- The Amateur Service and Amateur Satellite Service have been Primary users in parts of both of these bands since WARC '79,
- Short Range Radar (SRR) in the "79GHz band" will cover an instantaneous bandwidth of 77-81GHz, and in the "interim 24GHz band" will cover 21.65-26.65GHz,
- Automotive Long Range Radar (LRR) for Adaptive Cruise Control (ACC) already exists in the 76-77GHz band,
- IARU Region 1 and RSGB have made representations which resulted in the incorporation of Footnote EU 35 into the European Frequency Tables,
- Footnote EU 35, which amended 5.559A in the European Frequency Tables, permits 75.5 to 76.0GHz to continue to be available to the Amateur and Amateur Satellite Services on a Primary basis beyond 2006,
- The UK Regulatory Authority, Ofcom, has stated that it will "take all necessary steps to permit the Amateur Service and the Amateur Satellite Service (to continue to use) 75.5 – 76.0GHz after 2006",
- RSGB and UK Microwave Group have adopted the pragmatic attitude that technology development in the 77-81GHz band for vehicle radar should be 'welcomed', as it would assist migration from, and reduce interim use of, the 24GHz band for vehicle SRR,
- Paper C5.06 (RSGB) recognises these challenges to the Amateur Services, and Paper C5.25 (Chairman C5, PA0EZ) recommends adoption of the 75.5 -76.0GHz segment (from before WRC 2000),
- Paper C5.38 (DARC) is the only paper which rejects these proposals in the 76GHz band,
- That band-planning should be consistent with IARU San Marino Recommendations regarding harmonisation and promotion of activity in Amateur Primary Allocations.

**RSGB and the UK Microwave Group recommends:**

- IARU Region 1 should harmonise Amateur and Amateur Satellite operation in the 75.5 to 76.0GHz band by accepting that 500MHz of the band on a Primary basis is sufficient for all foreseen future needs of amateurs,
- Future band-planning (including decisions taken at Davos, 2005) should take place only within this segment,
- The remainder of the band, 76.0 to 81.0GHz, especially the Secondary segments, should not be used by the Amateur Services,
- That all other European IARU Region -1 Societies provide an update on the implementation status of EU 35 in their countries' allocation tables.

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