



Resolution SFCG 5-9R1

**PROTECTION OF FREQUENCY BANDS ALLOCATED TO
PASSIVE SENSING AND RADIO ASTRONOMY**

The SFCG,

CONSIDERING

- a) that certain frequency bands are restricted to use by the passive services, and that no emissions are permitted in these bands;
- b) that it has happened at least once that a space research mission has involved emissions in one of these restricted bands;
- c) that some planned space research missions intend to transmit in these restricted bands;
- d) that in other bands the passive services share with other space and terrestrial services;
- e) that radio astronomy is conducted terrestrially or in space and is especially susceptible to interference on account of the high sensitivity of the receiving equipment;
- f) that emissions from artificial satellites can be especially harmful to radio astronomy because they may be in or near the main beam of the receiving antenna, and that therefore no frequency allocations have been made, which are shared between the RAS and space services in the space-to-Earth direction;
- g) that there may be exceptional circumstances in which emissions from space in bands shared between radio astronomy and active services may be justified for technical or other reasons;

RESOLVES

- 1. that member agencies adopt a general policy of not conducting missions involving emissions from space in those bands allocated to the radio astronomy, space research (passive) and Earth exploration-satellite (passive) services;

2. that member agencies inform the IUCAF of proposals being considered for space projects involving emissions in bands also allocated for passive use, including details suitable for publication in regular bulletins of concerned scientific organizations;
3. that the scientific community be encouraged to submit relevant comments regarding the proposed emissions before frequency assignments are finalized;
4. that member agencies refrain from conducting missions that involve emissions in the bands restricted to the passive services.