

Characteristics and operational requirements of radionavigation-satellite service (space-to-Earth, space-to-space, Earth-to-space) systems

(2004-2006-2007)

The ITU Radiocommunication Assembly,

considering

- a) that radionavigation-satellite service (RNSS) systems provide worldwide precision, timing, positioning and navigation information for many applications, including critical and safety of life applications;
- b) that there are various existing or planned RNSS systems;
- c) that the bands 149.9-150.05 MHz and 399.9-400.05 MHz are allocated worldwide on a primary basis to the RNSS effective until 1 January 2015;
- d) that the bands 1 164-1 300 MHz, 1 559-1 610 MHz and 5 010-5 030 MHz are allocated worldwide on a primary basis to the RNSS (space-to-Earth, space-to-space);
- e) that the bands 1 300-1 350 MHz, and 5 000-5 010 MHz are allocated worldwide on a primary basis to the RNSS (Earth-to-space);
- f) that these frequency bands are also allocated on a primary basis to other services;
- g) that characteristics and protection criteria for RNSS systems may differ between bands and user applications;
- h) that WRC-2000 concluded that sharing of the 1 559-1 610 MHz RNSS band by any co-frequency radiocommunication service is not recommended;
- j) that studies on the compatibility between RNSS and other services or systems are ongoing or planned;
- k) that Recommendations ITU-R M.1088, ITU-R M.1477 and ITU-R M.1479 provide characteristics and descriptions of several types of receivers that are used with several RNSS systems;
- l) that the design of RNSS systems referred to in *considering* f) has recently evolved, and that the corresponding relevant Recommendations consequently may require updating;
- m) that there is an essential need to protect RNSS systems from the interference caused by other services and systems, to the extent provided by the Radio Regulations,

* Former Question ITU-R 236-2/8

decides that the following Question should be studied

What are the technical and operational characteristics of RNSS systems to be used in sharing and compatibility studies with other services or systems?

further decides

- 1 that the results of the above studies should be included in one or more Recommendations and/or Reports;
- 2 that the above studies should be completed no later than 2010.

Category: S2