International Telecommunication Union

ITU-R
Radiocommunication Sector of ITU

Recommendation ITU-R F.1570-2
(04/2010)

Impact of uplink transmission in the fixed service usign high altitude platform stations on the Earth exploration-satellite service (passive) in the 31.3-31.8 GHz band

F Series
Fixed service

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The regulatory and policy functions of the Radiocommunication Sector are performed by World and Regional Radiocommunication Conferences and Radiocommunication Assemblies supported by Study Groups.

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Note: *This ITU-R Recommendation was approved in English under the procedure detailed in Resolution ITU-R 1.*

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RECOMMENDATION ITU-R F.1570-2*

Impact of uplink transmission in the fixed service using high altitude platform stations on the Earth exploration-satellite service (passive) in the 31.3-31.8 GHz band

(2002-2003-2010)

Scope

This Recommendation provides guidance on the interference evaluation method of high altitude platform stations (HAPS) uplink on the EESS (passive) in the 31.3-31.8 GHz band. Annex 1 provides considerations on a limit for the level of unwanted emissions of a transmitter at the input of a HAPS ground station antenna using the typical parameters for the HAPS system in the band 31-31.3 GHz given in Recommendation ITU-R F.1569.

The ITU Radiocommunication Assembly,

considering

a) that new technology utilizing high altitude platform stations (HAPS) in the stratosphere is being developed;

b) that the 31.3-31.8 GHz band is allocated to the radio astronomy, Earth exploration-satellite service (EESS) (passive) and space research service (passive), and it is necessary to appropriately protect these services from unwanted emissions from HAPS ground stations operated in the 31-31.3 GHz band, taking into account the interference criteria given in the relevant ITU-R Recommendations,

recognizing

a) that the 27.9-28.2 GHz and 31-31.3 GHz bands may also be used for HAPS in the fixed service in certain countries on a non-interference, non-protection basis,

recommends

1 that § 1 in Annex 1 should be used for the parameters regarding EESS (passive) for the interference evaluation of HAPS uplink (ground-to-airship direction) on the EESS (passive) in the 31.3-31.8 GHz band;

2 that Recommendation ITU-R F.1569 should be used for the typical parameters regarding HAPS system for the impact evaluation of HAPS system on the EESS (passive) in the 31 GHz band;

3 that § 2 in Annex 1 should be used for the interference evaluation method of HAPS uplink on the EESS (passive) in the 31.3-31.8 GHz band.

* This Recommendation should be brought to the attention of Radiocommunication Study Group 7.

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