



Recommendation ITU-R SA.1164-4
(08/2019)

**Sharing and coordination criteria for service
links in data collection systems using GSO
satellites in the Earth exploration-satellite
and meteorological-satellite services**

SA Series
Space applications and meteorology



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Foreword

The role of the Radiocommunication Sector is to ensure the rational, equitable, efficient and economical use of the radio-frequency spectrum by all radiocommunication services, including satellite services, and carry out studies without limit of frequency range on the basis of which Recommendations are adopted.

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

Policy on Intellectual Property Right (IPR)

ITU-R policy on IPR is described in the Common Patent Policy for ITU-T/ITU-R/ISO/IEC referenced in Resolution ITU-R 1. Forms to be used for the submission of patent statements and licensing declarations by patent holders are available from <http://www.itu.int/ITU-R/go/patents/en> where the Guidelines for Implementation of the Common Patent Policy for ITU-T/ITU-R/ISO/IEC and the ITU-R patent information database can also be found.

Series of ITU-R Recommendations

(Also available online at <http://www.itu.int/publ/R-REC/en>)

Series	Title
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BR	Recording for production, archival and play-out; film for television
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M	Mobile, radiodetermination, amateur and related satellite services
P	Radiowave propagation
RA	Radio astronomy
RS	Remote sensing systems
S	Fixed-satellite service
SA	Space applications and meteorology
SF	Frequency sharing and coordination between fixed-satellite and fixed service systems
SM	Spectrum management
SNG	Satellite news gathering
TF	Time signals and frequency standards emissions
V	Vocabulary and related subjects

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 SA.1164-4

Sharing and coordination criteria for service links in data collection systems using GSO satellites in the Earth exploration-satellite and meteorological-satellite services

(Question ITU-R 142/7)

(1995-1997-1999-2018-2019)

Scope

This Recommendation provides the sharing and coordination criteria to protect service links for data collection systems in the Earth exploration-satellite and meteorological-satellite services using the aggregate interference criteria given in Recommendation ITU-R SA.1163.

Keywords

Sharing criteria, coordination criteria, power limits, data collection systems

Related ITU-R Recommendations and Reports

Recommendations ITU-R SA.1023 – Methodology for determining sharing and coordination criteria for systems in the Earth exploration-satellite and meteorological-satellite services

Recommendations ITU-R SA.1163 – Interference criteria for service links in data collection systems in the Earth exploration-satellite and meteorological-satellite services

Recommendations ITU-R SM.1448 – Determination of the coordination area around an earth station in the frequency bands between 100 MHz and 105 GHz

The ITU Radiocommunication Assembly,

considering

- a) that the frequency bands allocated to the Earth exploration-satellite service (EESS) (including the meteorological-satellite (MetSat) service) may be shared by several systems, including those operating in other services;
- b) that Recommendation ITU-R SA.1163 specifies the interference criteria needed to determine the sharing criteria;
- c) that sharing criteria may be determined using the methodology described in Recommendation ITU-R SA.1023;
- d) that the typical deployment of interfering stations may change over a period of years as a result of growth in the number of systems and revisions to frequency band allocations that are adopted by world radiocommunication conferences;
- e) that by governing the use of the radio-frequency spectrum in their territory and through international coordination of frequency assignments, administrations may exercise a degree of control over the number of systems that may generate interference at significant levels;
- f) that the interference levels encountered by shipborne earth stations in the MetSat service are unlikely to be worse than those encountered by earth stations operating on land;
- g) Recommendation ITU-R SM.1448, which provides the methodologies for determining when coordination is warranted between transmitting terrestrial stations and earth stations,