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| **Radiocommunication Assembly (RA-15) Geneva, 26-30 October 2015** |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** |  |
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|  | **Document 7/1003-E** |
| **1 September 2015** |
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| Radiocommunication Study Group 7 | |
| SCIENCE SERVICES | |
| Questions assigned to radiocommunication study group 7 | |
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Attached please find the list of Questions assigned to Radiocommunication Study Group 7. The following extract from Resolution ITU-R 5-6 gives the definition of categories of Questions:

C: Conference-oriented Questions associated with work related to specific preparations for, and decisions of, world and regional radiocommunication conferences:

C1: very urgent and priority studies, required for the next World Radiocommunication Conference;

C2: urgent studies, expected to be required for other radiocommunication conferences;

S: Questions which are intended to respond to:

– matters referred to the Radiocommunication Assembly by the Plenipotentiary Conference, any other conference, the Council, the Radio Regulations Board;

– advances in radiocommunication technology or spectrum management;

– changes in radio usage or operation:

S1: urgent studies which are intended to be completed within two years;

S2: important studies, necessary for the development of radiocommunications;

S3: required studies, expected to facilitate the development of radiocommunications.

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| **NOC** =  Maintained | **MOD** =  Revised | **SUP** = Deleted | **ADD** = New text | **UNA** =  Undergoing approval |

QUESTIONS ASSIGNED TO radiocommunication STUDY GROUP 7

Science services

| Question ITU-R | Title | Status | Category | Proposed target date | Comments |
| --- | --- | --- | --- | --- | --- |
| [**110-2/7**](http://www.itu.int/pub/R-QUE-SG07.110) | Time codes | NOC | (S2) | 2019 |  |
| [**111-1/7**](http://www.itu.int/pub/R-QUE-SG07.111) | Signal delays in antennas and other circuits and their calibration for high-accuracy time transfer | NOC | (S2) | 2019 |  |
| [**118-2/7**](http://www.itu.int/pub/R-QUE-SG07.118) | Factors which affect frequency sharing between data relay satellite systems and systems of other services | NOC | (S2) | 2019 |  |
| [**129-2/7**](http://www.itu.int/pub/R-QUE-SG07.129) | Unwanted emissions radiated from and received by stations of the science services | NOC | (S2) | 2019 |  |
| [**139-4/7**](http://www.itu.int/pub/R-QUE-SG07.139) | Data transmission for Earth exploration-satellite systems | NOC | (S2) | 2019 |  |
| [**141-4/7**](http://www.itu.int/pub/R-QUE-SG07.141) | Data transmission for meteorological satellite systems | NOC | (S2) | 2019 |  |
| [**145-2/7**](http://www.itu.int/pub/R-QUE-SG07.145) | Technical factors involved in the protection of radioastronomical observations | NOC | (S2) | 2019 |  |
| [**146-2/7**](http://www.itu.int/pub/R-QUE-SG07.146) | Criteria for evaluation of interference to radio astronomy | NOC | (S2) | 2019 |  |
| [**152-2/7**](http://www.itu.int/pub/R-QUE-SG07.152) | Standard frequencies and time signals from satellites | NOC | (S2) | 2019 |  |
| [**207-3/7**](http://www.itu.int/pub/R-QUE-SG07.207) | Time and frequency transfer using digital communication links | NOC | (S2) | 2019 |  |
| [**211/7**](http://www.itu.int/pub/R-QUE-SG07.211) | Frequency sharing between the space research service and other services in the 37-38 GHz and 40-40.5 GHz bands | NOC | (S2) | 2019 |  |
| [**221/7**](http://www.itu.int/pub/R-QUE-SG07.221) | Preferred frequency bands and protection criteria for space research service observations (passive) | NOC | (S2) | 2019 |  |
| [**222-2/7**](http://www.itu.int/pub/R-QUE-SG07.222) | Radio links between earth stations and lunar and planetary missions by means of lunar and/or planetary data relay satellites | NOC | (S2) | 2019 |  |
| [**226-1/7**](http://www.itu.int/pub/R-QUE-SG07/%20%20%20%20%20%20%20%20%20%20%20%20%20%20publications.aspx?lang=en&parent=R-QUE-SG07.226) | Frequency sharing between the radio astronomy service and other services in bands above 70 GHz | NOC | (S2) | 2019 |  |
| [**230-1/7**](http://www.itu.int/pub/R-QUE-SG07.230) | Preferred frequency bands and protection criteria for radio astronomy measurements in space | NOC | (S2) | 2019 |  |
| [**231/7**](http://www.itu.int/pub/R-QUE-SG07.231) | Earth exploration-satellite service (active) and space research service (active) operating above 100 GHz | NOC | (S2) | 2019 |  |
| [**234/7**](http://www.itu.int/pub/R-QUE-SG07.234) | Frequency sharing between active sensor systems in the Earth exploration-satellite service and systems operating in other services in the 1 215-1 300 MHz band | NOC | (S2) | 2019 |  |
| [**236-1/7**](http://www.itu.int/pub/R-QUE-SG07.236) | The future of the UTC time scale | NOC | (C1) | 2015 |  |
| [**237/7**](http://www.itu.int/pub/R-QUE-SG07.237) | Technical and operational factors relating to interference mitigation practices at radio astronomy stations | NOC | (S2) | 2019 |  |
| [**238/7**](http://www.itu.int/pub/R-QUE-SG07.238) | Trusted time source for time stamp authority | NOC | (S2) | 2019 |  |
| [**239/7**](http://www.itu.int/pub/R-QUE-SG07.239) | Instrumentation time codes | NOC | (S2) | 2019 |  |
| [**242/7**](http://www.itu.int/pub/R-QUE-SG07.242) | Radio quiet zones | NOC | (S2) | 2019 |  |
| [**244/7**](http://www.itu.int/pub/R-QUE-SG07.244) | Interference between standard frequency and time signal services operating between 20 and 90 kHz | NOC | (S2) | 2019 |  |
| [**245/7**](http://www.itu.int/pub/R-QUE-SG07.245) | Interference to the standard frequency and time signal service in the low-frequency band caused by noise from electrical sources | NOC | (S2) | 2019 |  |
| [**246/7**](http://www.itu.int/pub/R-QUE-SG07.246) | Future bandwidth requirements for the space research service (deep space) | NOC | (S2) | 2019 |  |
| [**247/7**](http://www.itu.int/pub/R-QUE-SG07.247) | Emergency radiocommunications for human space flight | NOC | (S2) | 2019 |  |
| [**248/7**](http://www.itu.int/pub/R-QUE-SG07.248) | Timing Information from Global Navigation Satellite Systems (GNSS) and their augmentations | NOC | (S2) | 2019 |  |
| [**249/7**](http://www.itu.int/pub/R-QUE-SG07.249) | Time and frequency information from “enhanced” LOng Range Aid to Navigation (eLORAN) | NOC | (S2) | 2019 |  |
| [**250/7**](http://www.itu.int/pub/R-QUE-SG07.250) | Application and improvement of two-way satellite time and frequency transfer (TWSTFT) | NOC | (S2) | 2019 |  |
| [**251/7**](http://www.itu.int/pub/R-QUE-SG07.251) | Ground-based passive sensors | NOC | (S2) | 2019 |  |
| [**252/7**](http://www.itu.int/pub/R-QUE-SG07.252) | Parameters needed for the registration of distributed radio astronomy systems | NOC | (S2) | 2019 |  |
| [**253/7**](http://www.itu.int/pub/R-QUE-SG07.253) | Relativistic effects in the transfer of time and frequency in the vicinity of the Earth and in the solar system | NOC | (S2) | 2019 |  |
| [**254/7**](http://www.itu.int/pub/R-QUE-SG07.254) | Characteristics and spectrum requirements of satellite systems using nano and pico satellites | NOC | (C2) | 2015 |  |
| [**255/7**](http://www.itu.int/pub/R-QUE-SG07.255) | Detection and resolution of radio frequency interference to Earth exploration-satellite service (passive) sensors | NOC | (S1) | 2019 |  |
| [**256/7**](http://www.itu.int/pub/R-QUE-SG07.256-2015) | Space weather observations | NOC | (S3) | 2019 |  |

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