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| **Radiocommunication Bureau (BR)** |
| Administrative Circular**CACE/832** | 22 September 2017 |
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| **To Administrations of Member States of the ITU, Radiocommunication Sector Members, ITU‑R Associates participating in the work of Radiocommunication Study Group 3 and ITU Academia** |
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| Subject: | **Radiocommunication Study Group 3 (Radiowave propagation)** **– Proposed approval of 1 draft new ITU-R Question****– Proposed suppression of 1 ITU-R Question** |
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At the meeting of Radiocommunication Study Group 3 held on 1 September 2017, 1 draft new
 ITU-R Question was adopted according to Resolution ITU-R 1-7 (§A2.5.2.2) and it was agreed to apply the procedure of Resolution ITU‑R 1-7 (see § A2.5.2.3) for approval of Questions in the interval between Radiocommunication Assemblies. The text of the draft ITU-R Question is attached for your reference in Annex 1. Any Member State who objects to the approval of a draft Question is requested to inform the Director and the Chairman of the Study Group of the reasons for the objection.

Furthermore, the Study Group proposed the suppression of 1 ITU-R Question in accordance with Resolution ITU-R 1-7 (§A2.5.3). The ITU-R Question proposed for suppression is indicated in
Annex 2. Any Member State who objects to the suppression of an ITU-R Question is requested to inform the Director and the Chairman of the Study Group of the reasons for the objection.

Having regard to the provisions of §A2.5.2.3 of Resolution ITU-R 1-7, Member States are requested to inform the Secretariat (brsgd@itu.int) by 22 November 2017, whether they approve or do not approve the proposals above.

After the above-mentioned deadline, the results of this consultation will be announced in an Administrative Circular and the approved Question will be published as soon as practicable (see: <http://www.itu.int/ITU-R/go/que-rsg3/en>).

François Rancy

Director

**Annexes**: 2

– 1 draft new ITU-R Question

– Proposed suppression of 1 ITU-R Question

**Distribution:**

– Administrations of Member States of the ITU and Radiocommunication Sector Members participating in the work of Radiocommunication Study Group 3

– ITU-R Associates participating in the work of Radiocommunication Study Group 3

– ITU Academia

– Chairmen and Vice-Chairmen of Radiocommunication Study Groups

– Chairman and Vice-Chairmen of the Conference Preparatory Meeting

– Members of the Radio Regulations Board

– Secretary-General of the ITU, Director of the Telecommunication Standardization Bureau, Director of the Telecommunication Development Bureau

Annex 1

(Document [3/79](https://www.itu.int/md/R15-SG03-C-0079/en))

draft new QUESTION ITU-R [SCINT\_INDICES]/3

Computation of ionospheric scintillation indices

The ITU Radiocommunication Assembly,

considering

*a)* that, in the case of some high-performance systems involving satellites, ionospheric scintillation effect should be considered for signals up to below 3 GHz and may occasionally be observed up to 10 GHz;

*b)* that various satellite systems, including mobile- and navigation-satellite services, are employing non-geostationary satellite networks;

*c)* that, in case of a scintillation event, rapid amplitude and phase fluctuations are observed with modifications to signal time coherence properties;

*d)* that, in case navigation satellite services, scintillation can cause cycle slips, degrade the positioning accuracy and, in case of a strong event, can lead to a complete loss of signal lock,

decides that the following Question should be studied

for the computation of S4 and σφ ionospheric indices, what is the impact of factors such as:

– the detrending process;

– the cut-off frequencies of the signal power spectral density;

– the sampling rate of the signal power spectral density;

– the signal duration;

– the GNSS receiver,

further decides

1 that the available information should be prepared as new Recommendations, or as revisions to existing Recommendations;

2 that the above studies should be completed by 2019.

Category: S3

Annex 2

(Document [3/72](https://www.itu.int/md/R15-SG03-C-0072/en))

Proposed suppression of ITU-R Question

| Question ITU-R | Title |
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| 232-1/3 | The effect of nanostructure materials on propagation |

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