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| **Radiocommunication Bureau (BR)** | | |
| Administrative Circular  **CACE/636** | | 10 October 2013 |
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| **To Administrations of Member States of the ITU, Radiocommunication Sector Members and ITU-R Associates participating in the work of Radiocommunication Study Group 3** | | |
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| Subject: | **Radiocommunication Study Group 3 (Radiowave propagation)**  **– Adoption of 2 new ITU-R Recommendations and 24 revised ITU-R Recommendations and their simultaneous approval by correspondence in accordance with § 10.3 of Resolution ITU-R 1-6 (Procedure for the simultaneous adoption and approval by correspondence)**  **– Suppression of 1 ITU-R Recommendation** | |
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By Administrative Circular CACE/622dated 30 July 2013, 2 draft new ITU-R Recommendations and 24 draft revised ITU-R Recommendations were submitted for simultaneous adoption and approval by correspondence (PSAA), following the procedure of Resolution ITU-R 1-6 (§ 10.3). In addition, the Study Group proposed the suppression of 1 ITU-R Recommendation.

The conditions governing this procedure were met on 30 September 2013.

The approved Recommendations will be published by the ITU and Annex 1 to this Circular provides their titles, with the assigned numbers. Annex 2 provides the suppressed Recommendation.

François Rancy

Director

**Annexes:** 2

**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

– Chairmen and Vice-Chairmen of Radiocommunication Study Groups and the Special Committee on Regulatory/Procedural Matters

– 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

Titles of the approved Recommendations

Recommendation ITU-R P.2040-0 Doc. 3/21(Rev.1)

**Effects of building materials and structures on radiowave   
propagation above about 100 MHz**

Recommendation ITU-R P.2041-0 Doc. 3/48(Rev.1)

**Prediction of path attenuation on links between an airborne platform and space and between an airborne platform and the surface of the Earth**

Recommendation ITU-R P.676-10 Doc. 3/11(Rev.1)

**Attenuation by atmospheric gases**

Recommendation ITU-R P.1407-5 Doc. 3/12(Rev.1)

**Multipath propagation and parameterization of its characteristics**

Recommendation ITU-R P.1057-3 Doc. 3/13(Rev.1)

**Probability distributions relevant to radiowave propagation modeling**

Recommendation ITU-R P.833-8 Doc. 3/14(Rev.1)

**Attenuation in vegetation**

Recommendation ITU-R P.678-2 Doc. 3/16(Rev.1)

**Characterization of the variability of propagation phenomena and  
estimation of the risk associated with propagation margin**

Recommendation ITU-R P.840-6 Doc. 3/18(Rev.1)

**Attenuation due to clouds and fog**

Recommendation ITU-R P.836-5 Doc. 3/19(Rev.1)

**Water vapour: surface density and total columnar content**

Recommendation ITU-R P.839-4 Doc. 3/20(Rev.1)

**Rain height model for prediction methods**

Recommendation ITU-R P.1321-4 Doc. 3/23(Rev.1)

**Propagation factors affecting systems using digital   
modulation techniques at LF and MF**

Recommendation ITU-R P.373-10 Doc. 3/24(Rev.1)

**Definitions of maximum and minimum transmission frequencies**

Recommendation ITU-R P.842-5 Doc. 3/25(Rev.1)

**Computation of reliability and compatibility of HF radio systems**

Recommendation ITU-R P.533-12 Doc. 3/26(Rev.1)

**Method for the prediction of the performance of HF circuits**

Recommendation ITU-R P.372-11 Doc. 3/28(Rev.1)

**Radio noise**

Recommendation ITU-R P.1411-7 Doc. 3/33(Rev.1)

**Propagation data and prediction methods for the planning of short-range  
outdoor radiocommunication systems and radio local area networks   
in the frequency range 300 MHz to 100 GHz**

Recommendation ITU-R P.1816-2 Doc. 3/34(Rev.1)

**The prediction of the time and the spatial profile for broadband land  
mobile services using UHF and SHF bands**

Recommendation ITU-R P.1812-3 Doc. 3/35(Rev.1)

**A path-specific propagation prediction method for point-to-area   
terrestrial services in the VHF and UHF bands**

Recommendation ITU-R P.531-12 Doc. 3/37(Rev.1)

**Ionospheric propagation data and prediction methods required  
for the design of satellite services and systems**

Recommendation ITU-R P.1546-5 Doc. 3/39(Rev.1)

**Method for point-to-area predictions for terrestrial services  
in the frequency range 30 MHz to 3 000 MHz**

Recommendation ITU-R P.618-11 Doc. 3/40(Rev.1)

**Propagation data and prediction methods required for the design of   
Earth-space telecommunication systems**

Recommendation ITU-R P.530-15 Doc. 3/41(Rev.1)

**Propagation data and prediction methods required for the design of terrestrial line-of-sight systems**

Recommendation ITU-R P.617-3 Doc. 3/43(Rev.1)

**Propagation prediction techniques and data required for the   
design of trans-horizon radio-relay systems**

Recommendation ITU-R P.311-14 Doc. 3/45(Rev.1)

**Acquisition, presentation and analysis of data  
in studies of radiowave propagation**

Recommendation ITU-R P.2001-1 Doc. 3/46(Rev.1)

**A general purpose wide-range terrestrial propagation model  
in the frequency range 30 MHz to 50 GHz**

Recommendation ITU-R P.452-15 Doc. 3/51(Rev.1)

**Prediction procedure for the evaluation of interference between stations  
on the surface of the Earth at frequencies above about 0.1 GHz**

Annex 2

**Suppressed ITU-R Recommendation**

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| Recommendation ITU-R | Title |
| P.313-11 | Exchange of information for short-term forecasts and transmission of ionospheric disturbance warnings |

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