



International Committee on  
Global Navigation Satellite Systems

**ICG WORKING GROUP S**  
**Systems, Signals, and Services**  
**ICG-13 Meeting**  
**Xi'an, China**  
**06-08 November 2018**

**IDM Task Force**

*Draft document*

***Assessment of electromagnetic and  
interference environment at the point of location  
of measurement in GNSS frequency bands***

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## **The new name of the document**

*«Assessment of electromagnetic environment in the GNSS frequency bands»*

**The purpose** *of the document is to present a methodology of assessment of electromagnetic and interference environment at the point of location of measurement in GNSS frequency bands*

**The methodology** *can be used for spectrum protecting and interests of evaluation of propagation and reception conditions of GNSS signals*

## **The document was developed taking into account:**

- ✓ *Peculiarity satellite navigation systems*
- ✓ *Peculiarity frequency band of GNSS*
- ✓ *Sensitivity of satellite navigation systems to the levels of electromagnetic noise and interference*

## **Direction of the methodology**

- *Providing the solution of problems of monitoring of parameters of propagation medium and reception of GNSS signals*
- *Operational analysis of the situation at the place of assessment*
- *The actual detection of high levels of electromagnetic background noise and interference of propagation and reception of GNSS signals*

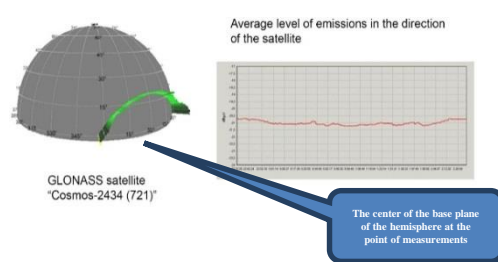
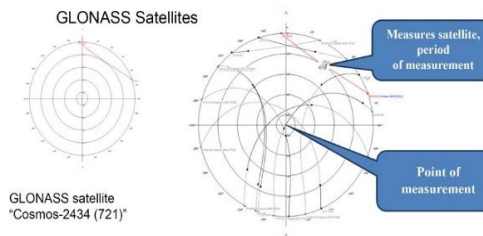
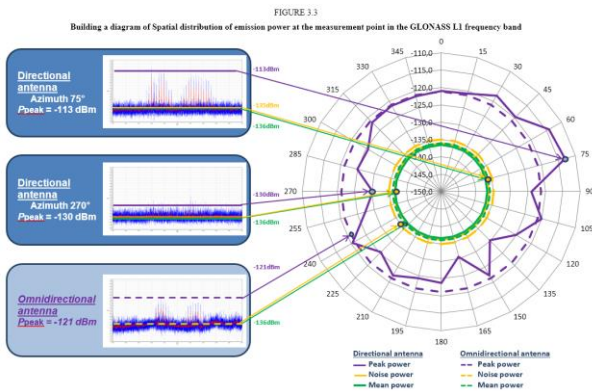
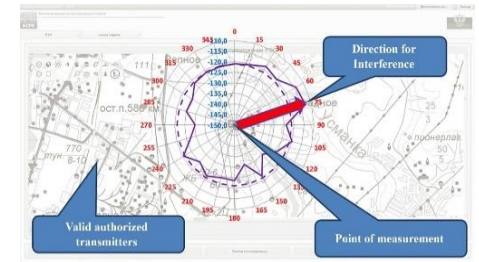
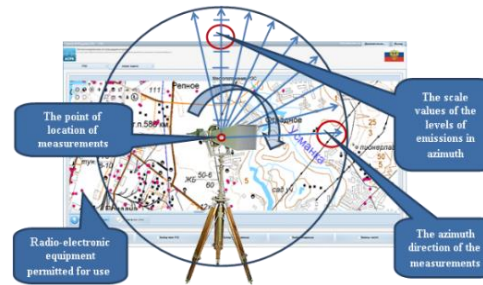
# The main sections of the document:

## Introduction

1. General description of the methodology
2. Requirements to radiomonitoring equipment
3. Practical example of measurements and assessments of electromagnetic environment

## Conclusion

## Reference documents



## **The first version of the draft document:**

- Was presented at the meeting IDM Task Force  
*10 May 2017 – ICG, IDM Task Force, Baska, Croatia - Presentation*
- Was sent for consideration to the participants IDM Task Force  
*31 May 2017 - ICG, Sending first versions to participants IDM Force*
- Was sent for consideration to the participants ITU WP 1C  
*7 July 2017 - ITU, Working Party 1C «Spectrum monitoring»,  
Presentation of the project (first version) document*
- Was refined according to received comments and suggestions  
*July - November 2017 - receive of comments and modification of the  
project document*

## **The second version of the draft document:**

- Was sent for consideration to the participants IDM Task Force  
*16 Nov 2017 - ICG, Sending second versions to participants IDM Force*
- Report on the status of consideration of the draft document  
*4 Dec 2017 – ICG-12, IDM Task Force, Kyoto, Japan*

## Consideration of the draft document in ITU :

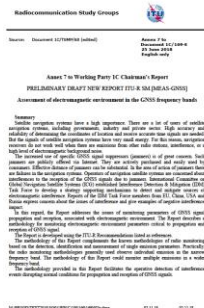
- The draft document was adopted by ITU for consideration and agreement

*July 2017 - ITU, Working Party 1C «Spectrum monitoring»,  
Presentation of the draft document (first version).  
The correspondence group was establish to prepare the  
document*

- Development and presentation of the second version of the document

*June 2018 - ITU, Working Party 1C «Spectrum monitoring»,  
Consideration of the second version of the document.  
The decision to continue the work of the KG.*

*June 2018 - Revision of the document. Preparation and  
publication of the third version of the document on the  
electronic resource ITU*



## **Current status of the draft document :**

- *The third version of the document is published on the ITU electronic resource - <https://www.itu.int/md/R15-WP1C-C-0169/en>*
- *Work on the draft document is ongoing*
- *Comments and suggestions on the draft document are accepted by e-mail [5314368@mail.ru](mailto:5314368@mail.ru)*
- *A fourth version of the draft document is being prepared for publication at the end of the year*
- *It is possible to obtain a decision on approval of the draft document in ITU in 2019*



## **Draft document**

«Assessment of electromagnetic environment  
in the GNSS frequency bands»

### **Is propose:**

- ✓ **to continue work on the draft document**
- ✓ **at the next meeting IDM Task Force to consider the results of the work on the draft document**



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**Thank you for your attention**