A satellite with two large solar panel arrays is positioned in the upper half of the frame against a dark, starry sky. Below the satellite, a cityscape is visible, with the Burj Khalifa as the central focus. The scene is illuminated by a bright light source on the horizon, creating a hazy, golden glow over the city and a clear horizon line.

# WRC-23:

## What It Means for GNSS

Hon Fai Ng  
International Telecommunication Union  
ICG-17, 15-20 Oct 2023, Online/Madrid, Spain

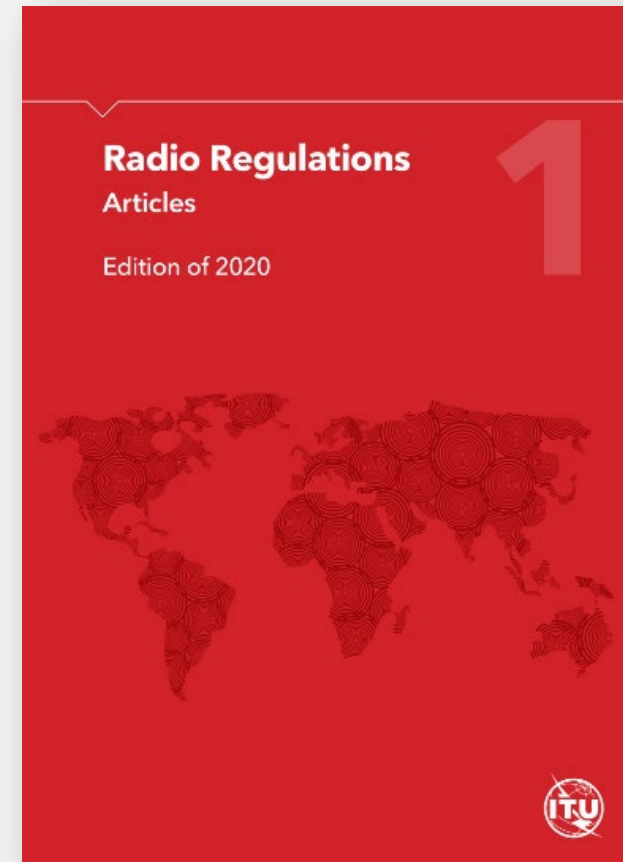




Manages frequency spectrum & orbits

# WRC has power to change Radio Regulations

(World Radiocommunication Conference)



# **A Typical WRC**

3000+ Participants

4 years studies, 4 weeks decisions

Members States propose and decide

In-person & live webcast



Space weather sensors  
Agenda Item 9.1 Topic a



UTC  
Resolution 655

## **WRC-23**

40+ Agenda Items & Topics



Interference to GNSS  
BR Director's Report



RNSS Protection from Amateur  
Agenda Item 9.1 Topic b



Space weather sensors  
Agenda Item 9.1 Topic a



RNSS Protection from Amateur  
Agenda Item 9.1 Topic b



UTC  
Resolution 655



Interference to GNSS  
BR Director's Report



Space weather sensors  
Agenda Item 9.1 Topic a

About

Solar activity monitoring

Issue

No RR protection

Possible Outcome

RR definition /  
allocation at WRC-27



RNSS Protection from Amateur  
Agenda Item 9.1 Topic b

About

RNSS 1240-1300 MHz

Issue

Interference from  
Amateur service

Possible Outcome

Enhanced protection /  
No change



UTC  
Resolution 655

About

Coordinated Universal  
Time (UTC)

Issue

Leap second

Possible Outcome

Relax UT1-UTC by  
2035 / +15 years



Interference to GNSS  
BR Director's Report

About

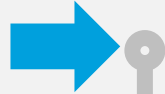
Ongoing interference

Issue

4.6x more incidents!



TODAY



T+14 days

### **Deadline for contributions**

Date: 30 Oct 2023  
Send to: [wrc23@itu.int](mailto:wrc23@itu.int)

T+35 days



### **WRC-23**

Date: 20 Nov - 15 Dec 2023  
Venue: Dubai World Trade Center, UAE



### **New Radio Regulations 2025**

Enter into force on 01.01.2025  
(or end of WRC-23)





## WRC-23: QUICK REFERENCE

### BASIC INFORMATION

- Dates: 20 Nov - 15 Dec 2023
- Venue: Dubai World Trade Center, UAE
- Official WRC-23 Website: <https://www.itu.int/wrc-23>
- Contact: <https://www.itu.int/wrc-23/participation/practical-info/contact-wrc-23-team/>

### REGISTRATION & TRAVEL

- Registration: <https://www.Itu.Int/wrc-23/participation/registration/>
- Travel & Accommodation: <https://dubaiwrc23.Ae/home>
- Visa Support: [visa@dubaiwrc23.Ae](mailto:visa@dubaiwrc23.Ae)

### BEFORE (PREPARE FOR WRC-23)

- Deadline for Submission: 30 Oct 2023 | Email for Submission: [wrc23@itu.int](mailto:wrc23@itu.int)
- Radio Regulations 2020: [www.itu.int/pub/R-REG-RR-2020](http://www.itu.int/pub/R-REG-RR-2020)
- WRC-23 Studies: <https://www.itu.int/en/ITU-R/study-groups/rcpm/Pages/wrc-23-studies.aspx>
- Structure of WRC-23: <https://www.itu.int/wrc-23/structure-of-wrc-23/>
- All Contributions: <https://www.itu.int/md/R23-WRC23-C/en>
- Find Proposals by Agenda Items: <https://www.itu.int/net4/proposals/WRC23>
- BR Director's Report: <https://www.itu.int/md/R23-WRC23-C-0004/en>

### DURING (FOLLOW WRC-23)

- Schedule & Timetable: <https://www.itu.int/wrc-23/programme/timetable-and-schedule/>
- Agenda: <https://www.itu.int/md/R23-WRC23-ADM/en>
- Webcast: <https://www.itu.int/wrc-23/programme/webcast/>
- Working Docs (Sharepoint): <https://extranet.itu.int/sites/wrc-ra/WRC-23/default.aspx>
- Temporary Docs (DT): <https://www.itu.int/md/R23-WRC23-231120-TD/en>
- Blue Docs (1<sup>st</sup> reading at Plenary): <https://www.itu.int/md/R23-WRC23-C/en>
- Pink Docs (2<sup>nd</sup> reading at Plenary): <https://www.itu.int/md/R23-WRC23-C/en>

### AFTER (WRC-23 RESULTS)

- Minutes of Plenary: <https://www.itu.int/md/meetingdoc.asp?lang=en&parent=R23-WRC23-C&class=MINS>
- Final Acts: <https://www.itu.int/pub/R-ACT-WRC>
- Radio Regulations (edition 2025): <https://www.itu.int/en/history/Pages/RegulationsCollection.aspx>

# International Telecommunication Union



[www.itu.int](http://www.itu.int)



SCAN ME