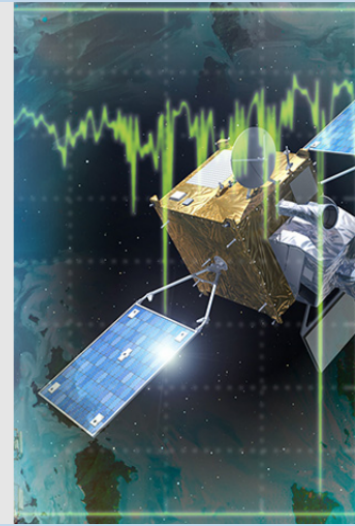




# RFI | 2022



**ECMWF** Reading, United Kingdom  
14-18 February 2022



## A Meeting of URSI, the International Union of Radio Science

### CALL FOR PAPERS

The RFI 2022 Workshop will bring together scientists and engineers from all disciplines to discuss the impact of Radio Frequency Interference in Numerical Weather Prediction, Radio Astronomy, Earth Remote Sensing, and other radio sciences.

This small conference will offer the opportunity of further discussing the current and future status of interference contamination and of reporting recent advances made in RFI advances made in techniques to deal with RFI. Special attention will be paid to spectrum management as a tool to protect the radio spectrum for scientific use, discussing current and future regulatory challenges and opportunities. Particular efforts will be made to foster exchanges between attendees and prepare the community for the World Radiocommunication Conference 2023 (WRC-23).

RFI 2022 will be held on February 14-18, 2022, at the European Centre for Medium-Range Weather Forecasts (ECMWF) in Reading, United Kingdom.

Abstract submissions are invited on the following topics:

- ▶ RFI detection and filtering techniques
- ▶ Monitoring, surveillance and databases
- ▶ Localization methods
- ▶ Interference issues related to new 5G wireless systems
- ▶ RFI affecting instrument calibration
- ▶ Defining and quantifying the impact of interference on scientific applications
- ▶ RFI and the error that it can cause in Numerical Weather Prediction
- ▶ SETI: separating extra-terrestrial and anthropogenic terrestrial transmissions
- ▶ RFI in passive and active remote sensing from space and ground based platforms
- ▶ Inter-satellite interference in remote sensing active radar systems
- ▶ RFI in multichannel imaging radar systems
- ▶ Interference in GNSS radio occultation, path delay and reflectometry
- ▶ RFI in scientific RF Telemetry
- ▶ Prediction techniques, including Artificial Intelligence
- ▶ Real-time RFI mitigation and management
- ▶ Radio Quiet Zones, Dynamic Zones and electromagnetic interference
- ▶ Protection of the Shielded Zone of the Moon (SZM) as a radio quiet zone.
- ▶ Strategies for science communities to influence spectrum policies
- ▶ Spectrum management and frequency allocation processes for scientific services
- ▶ Potential impact of WRC-19 outcomes on scientific users
- ▶ Items relevant to scientific users in future WRC agendas
- ▶ Radio spectrum innovation initiatives
- ▶ Developments in spectrum use and future sources of RFI
- ▶ Education and outreach in spectrum management for scientific users

### IMPORTANT DATES

- ▶ Abstract submission deadline:  
~~September 30, 2021~~ **October 21, 2021**
- ▶ Abstract acceptance notification:  
~~November 1, 2021~~ **November 10, 2021**
- ▶ Author registration deadline:  
~~December 1, 2021~~ **December 10, 2021**
- ▶ Conference: **February 14-18, 2022**

### WORKSHOP ORGANIZATION

- ▶ **General Chair:**  
Willem Baan (ASTRON)
- ▶ **Technical Chair for Meteorology:**  
Stephen English (ECMWF)
- ▶ **Technical Chair for Remote Sensing:**  
Paolo de Mattheis (NASA GSFC)
- ▶ **Technical Chair for Radio Astronomy:**  
Balthasar Indermuehle (CSIRO)
- ▶ **Technical Chair for Spectrum Management:**  
Federico di Vruno (SKAO)
- ▶ **Scientific Committee:**  
Alexandra Bringer (Ohio State University)  
Tobias Bollian (DLR)  
Roger Carter (Orbital Micro Systems)  
Greg Hellbourg (CalTech)  
Joel Johnson (Ohio State University)  
Yann Kerr (CESBIO)  
François Kapp (SARAO)  
David Le Vine (NASA GSFC)  
Harvey Liszt (NRAO)  
Sidharth Misra (Jet Propulsion Laboratory)  
Ryo Natsuaki (University of Tokyo)  
Gelu Nita (NJIT)  
Roger Oliva (European Space Agency)  
Braam Otto (SKAO)  
Yan Soldo (European Space Agency)  
Carol Wilson (CSIRO)  
Haiyan Zhang (NAOC)
- ▶ **Local arrangements:**  
Karen Clarke (ECMWF)

### FINANCIAL SUPPORT

Funds will be available to cover travel expenses of students and early career researchers.

### WEBSITE

For more details, please visit the workshop website at [www.rfi2022.org](http://www.rfi2022.org)



Union Radio-Scientifique Internationale  
International Union of Radio Science



EUROPEAN CENTRE FOR MEDIUM RANGE WEATHER FORECASTS