Commission GASS 2026 Report
Commission F

During URSI GASS 2026 Commission F held three Commission Coordinating Activities meetings:

- 17 August 2026 (Monday), 18:00 - 19:00, Room F;
- 19 August 2026 (Wednesday), 18:00 - 19:00, Room F;
- 21 August 2026 (Friday), 18:00 - 19:00, Room F.

This report summarizes the most important aspects of Commission F activities that have been discussed and decided.

1. Elections of Commission Officers

There were two candidates for Commission F Vice Chair:

- Animesh Maitra from University of Calcutta, India;
- Tomoo Ushio from Osaka University, Japan;

and one candidate for Early Career Representative:

- Monika Krystyna Drozdowska from Universitat Politècnica de València, Spain.

The number of Member Committees voted was 14 and the results are as follows:

- Commission F Vice Chair:
  - Animesh Maitra (India) – 18 votes;
  - Tomoo Ushio (Japan) – 21 votes;
- Early Career Representative:
  - Monika Krystyna Drozdowska (Spain) – 24 votes.

The results have been ratified by URSI Council and announced on Commission F coordinating activities meeting on Wednesday, 19 August 2026. Therefore the incoming Commission F board for the term of 2026-2029 is as follows:

- Chair: Sławomir Jerzy Ambroziak (Poland);
- Vice Chair: Tomoo Ushio (Japan);
- Senior ECR: Gargi Rakshit (India);
- Junior ECR: Monika Krystyna Drozdowska (Spain).

2. Review of Terms of Reference

After discussion the Commission F terms of reference have been reviewed and updated. The new agreed terms of reference for Commission F are presented below.

The Commission encourages:

- **The study of all frequencies in a non-ionized environment:**
  - **wave propagation through planetary, neutral atmospheres and surfaces;**
  - **wave interaction with the planetary surfaces (including land, ocean and ice) and subsurfaces;**
  - **radio channel modeling and characterizations;**
  - **characterization of the environment as it affects wave phenomena;**
- **The application of the results of these studies, particularly in the areas of remote sensing and communications;**
- **The appropriate co-operation with other URSI Commissions and other relevant organizations.**

3. Any changes/confirmation in Working Groups and other organizations

According to Article 33. of URSI Statutes the following Working Groups has been dissolved:

- F.1 Education and Training in Remote Sensing and Related Aspects of Propagation/Next-Generation Radar Remote Sensing
- F.2 Clouds, Precipitation and Climate
- F.3 Environmental Sensing for Disaster Management based on Communication and Remote Sensing Systems
- FCGE Risk and Disaster Management

No Working Groups has been reconstituted nor created by Commission F.

Attendees of the Commission Coordinating Activities meetings have been informed that, according to Article 27. of URSI Statutes, one can form a Working Group for the study of particular scientific subject. To do so, one needs to contact with the Chair of Commission F.

It has been also reminded that, according to Article 35. of URSI Statutes, each Working Group prepares a report on its work including conclusions and recommendations, and the date for the submission of this report is fixed by the Chair of the parent Commission. It was also proposed to ask Working Groups to report the progress with at least one slide during Commission Coordinating Activities meetings at every URSI flagship conference.

Commission F have been also invited to the following joint Working Groups:

- EBCFJ: Spectrum Management
- EFJ: RFI Mitigation and Characterization on Remote Sensing and Radio Astronomy

Commission F have proposed Paolo de Matthaeis as a Co-Chair for aforementioned joint Working Groups

4. Technical Advisory Committee

The role of Technical Advisory Committee within the URSI has been discussed. It includes the following activities: guides commission officers, shapes scientific programs for URSI flagship conferences (helps define hot topics for sessions, gets session conveners, invites authors, organizes workshops, etc.), supports paper reviews, and manages specialized working groups.

In practice, Technical Advisory Committee is a group of people in the Commission who are active and who can be of any help to the URSI community.

The following Technical Advisory Committee of Commission F has been appointed by the incoming Chair:

- Luca Baldini (Italy),
- Lorenzo Capineri (Italy),
- Madhu Chandra(Germany),
- Venkatachalam Chandrasekar (USA),
- Saurabh Das (India),
- Ke Guan (China),
- Thomas Kürner (Germany),
- Animesh Maitra (India),
- Paolo De Matthaeis (USA),
- Simonetta Paloscia (Italy),
- Massimiliano Pieraccini (Italy),
- Motoyuki Sato (Japan),
- Kamran Sayrafian (USA),
- Enrico Maria Vitucci (Italy),
- Lilong Zou (United Kingdom).

5. Preparation of Future Meetings/Identification of meetings to be supported (cfr. Commission budget)

Future URSI flagship conferences, including dates and venues, have been presented and discussed. All Member Committees and others interested in Commission F activities have been invited to contribute to AT-RASC 2027 scientific programme.

Rules of applications for URSI sponsorship of conferences, meetings, and workshops have been presented. No meeting to be supported has been identify and no application has been submitted till the end of URSI GASS 2026.

6. Proposed sessions and conveners for AT-RASC 2027

Contribution to AT-RASC 2027 have been discussed with URSI GASS 2026 session conveners present at Commission Coordinating Activities meetings. In addition, all Member Committees and others interested in Commission F activities have been invited vie e-mail to contribute to sessions organization at AT-RASC 2027. Based on the feedback received, the following tentative list of sessions to be organized at AT-RASC 2027 has been proposed:

- **F01: Subsurface Sensing/GPR** (Motoyuki Sato, Lorenzo Capineri, Lilong Zou);
- **F02: Remote Sensing of Precipitation** (Chandrasekar V., Luca Baldini);
- **F03: Remote Sensing of Earth and Planetary Atmospheres** (Animesh Maitra, Tomoo Ushio);
- **F04: IEEE AP-S TC3: Measurements & Channel Characterization for mmWave and THz Communications** (Sławomir Ambroziak, Thomas Kürner, Ke Guan);
- **F05: Ground-based and UAV-based Radar Measurements** (Motoyuki Sato, Massimiliano Pieraccini);
- **F06: Methods and Techniques for Next Generation Remote Sensing Radars** (Madhu Chandra, Tobias Rommel);
- **F07: AI for Precipitation and Atmospheric Remote Sensing** (V. Chandrasekar, Saurabh Das);
- **F08: Propagation Measurement and Modelling for Complex Propagation Environment** (Enrico Maria Vitucci, Diego Dupleich, Krzysztof Cichoń);
- **F09: Microwave Remote Sensing of Vegetation and Terrestrial Snow** (Simonetta Paloscia, Emanuele Santi);
- **F10: Open Session on Remote Sensing** (Tomoo Ushio);
- **F11: Open Session on Radio Wave Propagation and Channel Modeling** (Sławomir Ambroziak);

- **FG: Innovations in Space Surveillance and Environmental Interaction** (Liliana Macotela, Austin Egert, Sari Lasanen, Tom Grydeland);
- **FK: Body Area Networks – Propagation Channel Modelling and EMF Exposure** (Sławomir Ambroziak, Maxim Zhadobov, Kamran Sayrafian).

Commission F also declares the willingness to continue contribution to the following joint sessions organized by other commissions:

- **EFJ: RFI Detection, Characterization and Mitigation in Remote Sensing and Radio Astronomy** (Flávio Miguel da Silva Jorge, Paolo de Matthaeis, Tasso Tzioumis);
- **EBCFJ: Spectrum management and Utilization** (Flávio Miguel da Silva Jorge, Paolo de Matthaeis, Tasso Tzioumis, Satheesh Bojja Venkatakrishnan, Kumar Vijay Mishra);
- **EFGH: Natural Electromagnetic Noise and Radio Sensing Applications in Terrestrial and Planetary Environment** (Yasuhide Hobara, Sujay Pal, Tomoo Ushio);
- **EFGJ: Machine Learning and Signal Processing to Analyze and Mitigate EMI and RFI** (Kaushal Buch, Virginie Deniau, Paolo de Matthaeis, Riccardo Trinchero, Kevin Vinsen);
- **CF: Weather radars** (Kumar Vijay Mishra, Madhukar Chandra).