



SCAR Activities
Poster Session
KLCC, Kuala Lumpur, Malaysia

URSI

INTERNATIONAL UNION OF RADIO SCIENCE

WWW.URSI.ORG



ICSU Scientific Member since 1922.
President: CANNON Paul
Past President: WILKINSON Philip
Secretary general: LAGASSE Paul
Treasurer: INAN Umran
Contacts: HELEU Inge

URSI DELEGATE TO SCAR 2014-2016: [Giorgiana De Franceschi \(giorgiana.defranceschi@ingv.it\)](mailto:giorgiana.defranceschi@ingv.it)

URSI was created in 1919 during the Constitutive Assembly of the International Research Council (now ICSU). URSI's origins go back even further, to the earlier **International Commission on Scientific Radiotelegraphy**. This had been active during the period **1913-1914**, when the only existing type of radio communication was radiotelegraphy.

The original objective of URSI in 1919 (to encourage scientific studies of radiotelegraphy, especially those which require international cooperation) has been broadened considerably over the past 70 years.

URSI MAIN OBJECTIVES

URSI objective is described in Article 1 of the Statutes, namely:

Radio science encompasses the **knowledge and study of all aspects of electromagnetic fields and waves**. Under ICSU URSI is responsible **for stimulating and coordinating, on an international basis, studies, research, applications, scientific exchange, and communication in the fields of radio science**. Included within the **objectives** are the following:

1. to encourage and promote international activity in radio science and its applications, for the benefit of humanity;
2. to encourage the adoption of common methods of measurement, and the intercomparison and standardisation of the measuring instruments used in scientific work;
3. to stimulate and coordinate studies of:
 - the scientific aspects of telecommunications using electromagnetic waves, guided and unguided;
 - the generation, emission, radiation, propagation, reception, and detection of fields and waves, and the processing of the signals embedded in them;
4. to represent radio science to the general public, and to public and private organizations.

At present, **45 Member Committees adhere to URSI**. URSI has close contacts in particular with the International Telecommunications Union (**ITU**), supports **IUCAF**, the Steering Committee on Frequency Allocation for Radio Astronomy and Space Science, and **ISES**, the International Space Environment Service which provides information relevant to disciplines related to the Sun-Earth environment.

URSI's quarterly magazine "The Radio Science Bulletin" can be downloaded free of charge at www.ursi.org/RSB.htm



Commission A	Commission B	Commission C	Commission D	Commission E
Electromagnetic Metrology	Fields and waves	Radiocommunication Systems and Signal Processing	Electronics and Photonics	Electromagnetic Environment and Interference
Commission F	Commission G	Commission H	Commission J	Commission K
Wave Propagation and Remote Sensing	Ionospheric Radio and Propagation	Waves in Plasmas	Radio Astronomy	Electromagnetics in Biology and Medicine

URSI SCIENTIFIC COMMISSIONS

Commission G "Ionospheric Radio and Propagation" deals with the study of the **ionosphere** in order to provide the broad understanding necessary to support space and ground-based radio systems as well **Space Weather topics**.

GRAPE (www.grape.scar.org) organized two scientific sessions within URSI Commission G:
 • **URSI AT RASC 2015** (Gran Canaria, Spain)
 • **Beacon Satellite Symposium, 2016** (Trieste, Italy)

FUTURE ACTIONS



AUGUST 19-26, 2017 | MONTRÉAL, QUÉBEC, CANADA

A JOINT SCIENTIFIC SESSION (Commissions G and F) IS PLANNED: Radio Studies on Polar Aeronomy

Neutral and ionized atmosphere can affect remote sensing radar systems for Earth science dedicated to observations of surface deformation, cryosphere dynamics, etc...**The goal of the session is to pose a solid bridge between the ionosphere and remote sensing communities, and to facilitate exchange of information on their respective states of the art as well as on their future needs.**