

**WMO OMM**

World Meteorological Organization
Organisation météorologique mondiale
Organización Meteorológica Mundial
Всемирная метеорологическая организация
المنظمة العالمية للأرصاد الجوية
世界气象组织

Secrétariat

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Our ref.: 18630/2017/OBS/WIS/SG-RFC/SEMINAR

19 June 2017

Annexes: 3 (available in English only)

Subject: Second Seminar of the International Telecommunication Union (ITU) and the World Meteorological Organization (WMO) **"Use of Radio Spectrum for Meteorology: Weather, Water and Climate Monitoring and Prediction"**, ITU, Geneva, Switzerland, 23-24 October 2017

Action required: Nomination of a suitable expert, or experts, to attend the above seminar, **by no later than 15 August 2017**

Dear Sir/Madam,

I wish to announce that the second ITU/WMO seminar "Use of Radio Spectrum for Meteorology: Weather, Water and Climate Monitoring and Prediction", will take place in the ITU Headquarters in Geneva, Switzerland, from 23 to 24 October 2017. The opening session will start at 9.30 a.m. in Room H of the Montbrillant building and the closing session will not run later than 6.00 p.m.

The seminar is organized by ITU and WMO to provide information on the use and further development of radio-based space and terrestrial systems and applications employed for weather, water and climate monitoring and the relevant radio-frequency spectrum management activities. It aims to increase awareness of National Meteorological or Hydrological Services (NMHSs) on the importance of meteorological related spectrum protection and the growing need for their participation in national and international spectrum management activities. It also aims to provide spectrum managers and state telecom administrators an overview of contemporary meteorological applications' use of radio spectrum and their future development, as well as to illustrate the socioeconomic importance of these services in the context of the Sustainable Development Goals.

Discussions will be supported by a new edition of WMO/ITU Handbook on the "Use of Radio Spectrum for Meteorology" along with the Guide to Participation in Radio-frequency Coordination (WMO-No. 1159). These, the background information as presented in Annex I and the draft agenda in Annex II, are available via the WMO meeting page at: <https://wiswiki.wmo.int/ITU-WMO2017>

Further detailed information will be posted as soon as possible, together with a detailed agenda and presentations. The seminar will be conducted in English only.

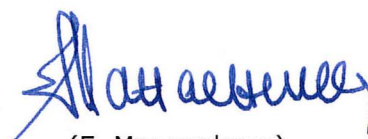
To: Permanent Representatives (or Directors of Meteorological or Hydrometeorological Services) of Members of WMO

cc: Hydrological Advisers to Permanent Representatives

As emphasized by the Executive Council at its sixty-ninth session (EC-69) held 10-17 May 2017, Geneva, (Decision 5.1(1)/13), Members are encouraged to register suitable experts that will be able to benefit from participation in this workshop to facilitate their national coordination of spectrum management issues affecting meteorological and related activities. Registration for NMHS experts is by completion and return of the form in Annex III. In view of limited financial resources available for this activity, it is hoped that the costs of your experts' participation will be borne by your Government. Registration for non-NMHS participants can be made through ITU via the afore-mentioned WMO meeting page, or directly via the ITU meeting page: <http://itu.int/go/ITU-R/sg7-itu-wmo-rsm-17>.

For administrative purposes, I should be grateful if you would kindly complete the registration form and return it by email to wis-help@wmo.int **no later than 15 August 2017**. Further information is available from Mr Peiliang SHI, Director, WMO Information System (WIS) Branch (tel.: +41 (0) 22 730 8219, e-mail: pshi@wmo.int) or by email to: wis-help@wmo.int.

Yours faithfully,



(E. Manaenkova)
for the Secretary-General

ITU/WMO Joint Seminar
Use of Radio Spectrum for Meteorology:
Weather, Water and Climate Monitoring and Prediction

23-24 October 2017, ITU, Geneva, Switzerland

BACKGROUND INFORMATION

Climate change has been labelled as the “defining challenge of our time”. Its impact is already evident and will intensify over time if left unaddressed. There is overwhelming scientific evidence that climate change will threaten economic growth, long-term prosperity and the social welfare of practically all countries, as well as the very survival of the most vulnerable populations.

ICTs and radiocommunications in particular are essential tools in the combat against climate change. Areas foreseen in this context include: continued observations and long-term monitoring of solar activity to improve our knowledge and understanding of the influence of the electromagnetic radiation from the sun on Earth's environment, including climate; continued observations to characterize changes in the atmosphere, oceans and land surface, and the use of such information for climate change modelling; and continued observations of the change in the ozone layer and its effects on the environment and human health. Land cover change assessment and understanding of its dynamics are recognized as essential requirements for sustainable management of natural resources, environmental protection, food security, climate change and humanitarian programmes. Terrestrial and satellite radiocommunication systems contribute to the monitoring of carbon emissions, the changing of ice in polar caps and glaciers, and temperature changes.

For more than 140 years, starting with the International Telegraph Union and the International Meteorological Organization in the late 1800s, to become, respectively, the ITU and WMO in the 1950s, there has been fruitful collaboration and partnership between the global meteorological and telecommunication agencies. Whilst WMO focuses its efforts on meeting the need for environmental information and the corresponding radio frequency spectrum for standardized weather, climate and hydrological applications, ITU, as international steward of the radio spectrum, allocates the necessary radio frequencies to allow the interference-free operation of radio-based applications and radiocommunication systems (terrestrial and space) used for climate monitoring and prediction, weather forecasting and disaster early warning and detection.

Successive ITU World Radiocommunication Conferences have taken into account the needs of WMO to ensure the availability and protection of radio-frequency bands for such atmospheric and other environmental observation tools as radiosondes, weather and wind profiler radars and spaceborne infrared and microwave sounders.

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DRAFT AGENDA

Time	Subject
23 October 2017	
09.30-10.00	Opening
	ITU
	WMO
10.30-12.00	ITU- international spectrum management system
	Main principles of spectrum management: WRC, ITU-R activities, RR, registration principles, ITU-R Study groups
	ITU-R SG7 activities
14.00-15.30	WMO - Integrated global observing system, societal economic value
	Essential role of radio frequencies
16.00-17.30	Meteorological satellite
	Data collection platforms
	Modern Applications outlook
24 October 2017	
09.00-10.30	Active and Passive Sensing
	Future development
11.00-12.30	Meteorological radars
	Current threats
	Future development
14.00-15.30	Met aids
	Lightning Radiosondes Space weather
16.00-17.30	World Radiocommunication Conference 2019 and 2023 issues
17.30-18.00	Closing

ITU/WMO Joint Seminar
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 23-24 October 2017, ITU, Geneva, Switzerland

PARTICIPANT NOMINATION FORM

The Government of nominates the following candidate as a participant in the above-mentioned seminar:

1. Family Name (Surname):	2. First Name (Given):
3. Country:	4. Gender: Male <input type="checkbox"/> Female <input type="checkbox"/>
5. Organization:	6. E-mail:
7. Telephone No:	8. Position Title:
9. Official Address:	
10. English language skill: Excellent <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> Nil <input type="checkbox"/>	11. Experience in spectrum associated activities in meteorology or related areas: Extensive <input type="checkbox"/> Some <input type="checkbox"/> Little or none <input type="checkbox"/>
12. What do you wish to achieve by having your candidate participate in this seminar?	
13. Any other information:	
14. Name and signature of the Permanent Representative of the country with WMO: Name: Signature:	
15. Date:	

Please complete this form and return by email to wis-help@wmo.int no later than **15 August 2017, for the attention of:**

Mr Peiliang SHI, Director, WIS Branch
 Tel.: +41 (0) 22 730 8219 / E-mail: pshi@wmo.int