

**WMO OMM**

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

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Annex: 1

Subject: WMO Training Workshop in Russian, 21 November – 2 December 2022

Action required: Nominate participants and register via ZOOM

Dear Sir/Madam,

I am pleased to inform you that the World Meteorological Organization (WMO) Training Workshop on Generating Basic Climate Statistics in Russian, will be held virtually via the ZOOM application, from 21 November to 2 December 2022.

The Training Workshop will address key aspects of the National Meteorological and Hydrological Services' (NMHSs) basic climate data management and aggregation processes, thereby underpinning the NMHS's capacities to contribute and to benefit from WMO climate-related activities. These activities include the publication of WMO flagship products such as the State of the Climate reports, Climatological Standard Normals, etc. Such flagship products showcase the WMO Members' capacities and expertise in delivering world-class authoritative climate information and to have great potential to raise the visibility of NMHSs.

Please find attached herewith a concept note, including the schedule for the training sessions (see [Annex](#)).

I am pleased to invite you to nominate up to three participants from your Service to attend the workshop. Nominees are invited to register for the training individually, using the [registration page](#) by **15 November 2022**. Participants will receive the ZOOM link upon registration.

Should you require further clarification, please do not hesitate to contact the WMO Secretariat (Mr Peer Hechler, Scientific Officer, S/CS/CMP) at wcdmp@wmo.int.

I wish to thank you for your continued support to WMO activities.

Yours faithfully,

Dr Elena Manaenkova
for the Secretary-General

To: Permanent Representatives of Kyrgyzstan, Tajikistan, Uzbekistan, Turkmenistan, Kazakhstan and Armenia, Azerbaijan, Belarus, Bulgaria, Ukraine, Russian Federation with WMO (limited distribution)

cc: Regional Offices Europe and Singapore

WMO TRAINING WORKSHOP ON GENERATING BASIC CLIMATE STATISTICS

The workshop is intended to provide training on basic climate statistics, which are fundamental for Members' participation in WMO activities. It will introduce the open-source software package R-Instat, which has been extended recently to include functionality to support the calculation of Climatological Standard Normals, World Weather Records, National Climate Monitoring Products, etc.

The workshop will be held in English with simultaneous interpretation into Russian. A handbook has been developed from the workshop concept to allow participants and other WMO Members to benefit from R-Instat including relevant tutorials and videos (handbook available in [English](#) and [Russian](#)). R-Instat is closely linked to OpenCDMS and collaborating CDMSs.

The meeting will be held via ZOOM.

The workshop will be conducted through six sessions, 90 minutes each, stretched over two weeks (see draft work plan below).

Date	Session	Content	Resource persons
Monday, 21 November 2022 1000–1130 Geneva time (9:00–10:30 UTC)	Opening, Introducing R-Instat	Scene setting including importance of standard climate datasets; introduction to R-Instat	Roger Stern University of Reading, UK; David Stern, Danny Parsons, IDEAMS, UK; Peer Hechler (WMO); Members of WMO SERCOM Expert Team on Data Requirements for Climate Services (tbc)
Wednesday, 23 November 2022 1000–1130 Geneva time (0900–1030 UTC)	A gallery of graphs	How to generate graphs and data visualizations	
Friday, 25 November 2022 1000–1130 Geneva time (0900–1030 UTC)	Recovering and tidying climate data	Data rescue, data import, conversion into common formats ready for R-Instat analyses	
Monday, 28 November 2022, 1000–1130 Geneva time (0900–1030 UTC)	Taking stock and checking the data	Data inventory, quality control, homogenization	
Wednesday, 30 November 2022, 1000–1130 Geneva time (0900–1030 UTC)	Summarizing data and calculating standard products	Generation of summaries for trend and variability analyses, Climatological Standard Normals, World Weather Records, National Climate Monitoring Products	
Friday, 2 December 2022, 1000–1130 Geneva time (0900–1030 UTC)	Discussion and feedback Closure	Remaining questions, discussion of workshop content, suggestions for tutorials, videos, handbook, feedback from participants, WMO view including outlook	

