

**Government of Pakistan
Cabinet Secretariat (Aviation Division)
Pakistan Meteorological Department
Sector H-8/2, Islamabad - 44000**

No. Co (Isb)-2(3)/IA/4/2018/

Dated: 22nd February, 2019

C I R C U L A R

SUBJECT: Institute of Advanced Studies in Climate Extremes and Risk Management Summer School, Nanjing, China from 21st October to 1st November, 2019

The World Climate Research Program (WCRP) in collaboration with Future Earth, Integrated Research on Disaster Risk (IRDR) and Nanjing University of Science and Technology (NUIST) is organizing Institute of Advanced Studies in Climate Extremes and Risk Management Summer School in Nanjing, China from 21st October to 1st November, 2019. The Summer School aims at filling gaps by promoting active knowledge exchanges and integration across climate research and disaster risk reduction research communities. A limited number of grants are available to support the selected participants. The School will be organized around four broad topic areas:

- Attribution of changes in the frequency and intensity of extremes
- Climate risk from compound events
- Projections and predictions of extreme events
- Climate risk reduction and management

Interested/eligible scientists/officers may submit their online applications at <http://www.wcrp-climate.org/extremes-risk-summer-school-application> under intimation to this office (pakmet_Islamabad@yahoo.com) latest by **28th March, 2019**. Detailed information regarding the activity is available at <http://www.wcrp-climate.org/extremes-risk-summer-school-overview>. PMD will consider only those personnel for nomination whose application(s) have been accepted alongwith the provision of complete financial support by the organizers.

This issues with the approval of Director Genral, PMD.



(IMRAN AKRAM)

Meteorologist (Coordination)
For Director General, PMD

Distribution:-

- Chief Meteorologist, NDMC Islamabad/FFD Lahore/R & D Division Islamabad/Met. Complex, Karachi
- Director, F & C/CDPC/Maintenance/IMG, Karachi
- Director, RMC, Karachi/Lahore/Quetta/Peshawar/Gilgit.
- Director, NAMC/NWFC/NDMC/Seismic/Planning/Lai Nullah, Islamabad.
- Senior Meteorologist, MO, Karachi/Lahore/Islamabad/Multan

CC:-

- Section Officer (Met), Aviation Division, Islamabad.

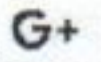
Institute of Advanced Studies in Climate Extremes and Risk Management Summer School

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Dates: 21.10 - 01.11.2019
Venue: Nanjing, China
Contact person: WCRP, wcrp@wmo.int
Website: <https://www.wcrp-climate.org/ext...>



WCRP event



The Institute of Advanced Studies in Climate Extremes and Risk Management Summer School will be held in Nanjing, China, from 21 October to 1 November 2019.

Venue

Nanjing University of Information Science & Technology (NUIST)
No.219, Ningliu Road Nanjing Jiangsu, 210044 P.R. China

Logistics

This Institute of Advanced Studies is organized by the World Climate Research Program (WCRP), led by the WCRP Grand Challenge on Weather and Climate Extremes (GC-Extremes), in collaboration with Future Earth, Integrated Research on Disaster Risk (IRDR) and Nanjing University of Science and Technology (NUIST). This activity was endorsed by the International Science Council (ISC).

The Institute of Advanced Studies in Climate Extremes and Risk Management aims to provide a collaborative environment for world-leading experts from IPCC Working Groups I and II and future science leaders. The programme is designed for early-career researchers*, our future leaders in the field of climate science and risk management.

*This activity seeks only senior PhD students (who will graduate in less than two years) and early career scientists (normally in an early stage of career) in a relevant field.

Description

Overall economic losses caused by natural disasters are increasing worldwide. Many of these natural disasters are weather and climate extremes related. Yet, the impacts and disasters are the results of the complex interplay of climatic, environmental, and human factors.

The severity of impacts from weather and climate extremes depend not only on the extremes themselves but also on exposure and vulnerability. Weather and climate extremes are and will be changing due to human-induced climate change. Exposure and vulnerability are also changing because of social and economic development and as responses to weather and climate extremes. These together make it even more challenging than ever to manage disaster risks.

The climate research community has significantly advanced the understanding of past and future changes in weather and climate extremes. The disaster management community has also significantly developed their understanding of causes of disaster risk. Yet, there is a barrier to the flow of knowledge between the two communities. Disaster risk management towards reducing exposure and vulnerability and increasing resilience to the potential adverse impacts of weather and climate extremes requires the integration of knowledge from both communities.

Goals

The Institute of Advanced Studies in Climate Extremes and Risk Management aims at filling this gap by promoting active knowledge exchanges and integration across climate research and disaster risk reduction research communities. This objective will be achieved by two-prolonged approach:

- To provide a forum and environment in which world-lead experts from the two communities are brought together to learn from each other on weather and climate extremes and disaster risk reduction.
- To train future leaders in the two disciplines such that they both are familiar with aspects of the other disciplines.

Understanding disaster risk will enable climate experts to generate more tailored climate knowledge and information for risk reduction action. Similarly, understanding past and future changes and uncertainty in the projection of weather and climate extremes will enable risk management experts to use climate information properly and more effectively.

Lecturers

Confirmed lecturers include:

- Erich Fischer, ETH Zurich (Cities and heatwaves)
- Alexis Hannart, Ourano (Attribution of climate changes and events; Environmental applications of Data Science)
- Bart Van Den Hurk, KNMI (Compound events)
- Reinhard Mechler, IIASA (Risk management and policy within social, ecological, and economic systems)
- Xuebin Zhang, Environment Canada (Changes in extreme precipitation and their implications for risk management)

Organizers

- Qunil Han (IRDR)
- Zhihong Jiang (NUIST)
- Boram Lee (WCRP)
- Sarah Schweizer (START)
- Xuebin Zhang (Environment Canada, Co-Leader of WCRP GC Extremes)

Program

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The school will be organized around four broad topic areas:

- Attribution of changes in the frequency and intensity of extremes
- Climate risk from compound events
- Projections and predictions of extreme events
- Climate risk reduction and management

Further details: <https://www.wcrp-climate.org/extremes-risk-summer-school-programme>

Applications

The application deadline is 28 March 2019.

Financial assistance, through a selection process, may be available and can be requested on the application form.

Go to: <https://www.wcrp-climate.org/extremes-risk-summer-school-application>

Further information

Go to the summer school website: <https://www.wcrp-climate.org/extremes-risk-summer-school-overview>