



Arctic change and its implications for global risk

COP22 Marrakesh, Morocco.



Date Friday 18th November - 12.30 to 14.00.
Venue European Union Pavilion, Area D, Blue zone of the venue Bab Ighli, Room Brussels

Thematic focus To provide up-to-date information on the regional and global impacts and risks associated with Arctic change.

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Description

The Arctic is experiencing dramatic environmental, economic, and societal changes that not only have implications for the high latitudes, but which are likely to lead to profound global consequences and risks. But how much do we really know about the impact of Arctic change? Building upon the EU's investment in Arctic science our session will provide up-to-date information on the effects and risks associated with Arctic change globally, with a special focus on implications for the lower latitudes.

Purpose

- Provide an up-to-date and holistic overview of impacts and risks associated with Arctic change.
- Provide an opportunity for stakeholders to deliver feedback on the advanced information that is required for decision-making regarding Arctic change and its socioeconomic impacts.

Format

Five high-level, keynote presentations on the multi-sector impacts of Arctic change, followed by an open Q & A panel session.

Moderator

Manuel Pulgar-Vidal: Head of WWF's International Climate and Energy Practice, and Former Minister of State for Environment in Peru and President of COP20.

Session

Overview of the session and the importance of the Arctic
Opening statement (via video)

1. **Climate change in the Arctic**
2. **Arctic connections with the rest of the world**
3. **Global economic risk and the Arctic**
4. **Societal and security impacts of Arctic change**

Question and answer discussion
Wrap and close

Manuel Pulgar-Vidal (WWF)
Andrea Tilche (European Commission)
Jeremy Wilkinson (British Antarctic Survey)
Petteri Taalas (WMO)
Dmitry Yumashev (Lancaster University)
Lene Kielsen Holm (GCRC)
Moderated by **Manuel Pulgar- Vidal**

Session Organisers



ICE-ARC (Ice, Climate, Economics – Arctic Research on Change)

ICE-ARC is a €11.5M, four-year programme of research (2014 - 2017), which investigates the environmental, economic, and social impacts of a changing Arctic. Physicists, chemists, biologists, economists, and sociologists from 24 institutes and 11 countries across Europe, Greenland, and Russia have to study and better understand the multifaceted impact of Arctic change. See www.ice-arc.eu. @ICEARCEU



EU-PolarNet (EU-Polar Network)

EU-PolarNet is the world's largest consortium of expertise and infrastructure for polar research. Seventeen countries are represented by 22 of Europe's internationally respected multi-disciplinary research institutions. From 2015-2020, EU-PolarNet will develop and deliver a strategic framework and mechanisms to prioritise science, optimise the use of polar infrastructure, and broker new partnerships that will lead to the co-design of polar research projects that deliver tangible benefits for society. See www.eu-polarnet.eu. @EUPolarNet

Brief biographies of the Moderator and Speakers

Moderator

Manuel Pulgar-Vidal: Head of WWF's International Climate and Energy Practice. A lawyer-turned-politician, Pulgar-Vidal chaired the UN climate talks through 2014, culminating in the Lima Accord on climate change, which laid the foundations for the 2015 Paris Agreement. "He is a fantastic symbol of how government, business, and civil society¹ can be brought together around global environmental priorities," said WWF International chief Marco Lambertini.



Speakers

Andrea Tilche obtained his Doctor Degree in Agricultural Sciences at the University of Milano in 1978. His scientific career was mainly carried out in Italy where he set-up and directed the wastewater treatment laboratories of ENEA in Bologna. In 1998, he moved to the Joint Research Centre of the European Commission as Head of the Water Research Unit, and later moved to Brussels to lead the Water Key Action in the 5th Framework Programme. After other appointments in the Directorate-General for Research and Innovation, he is now Head of the Unit "Climate Action and Earth Observation". He represents the EU at the Intergovernmental Panel on Climate Change and in other international fora.



Jeremy Wilkinson is employed by the British Antarctic Survey, and represents the UK on the International Arctic Science Committee's Marine Working Group, is a member of the UK Arctic and Antarctic Partnership, and sits on the Scientific Steering Group of Antarctic Sea-Ice processes and Climate. Dr Wilkinson is a recognised authority on sea ice and has participated in excess of 20 polar field campaigns. He is presently co-ordinator of the €12 million EU funded ICE-ARC programme, sits on the Steering Committee of the US Marginal Ice Zone (MIZ) programme, and holds an Advisory Board position for the Japanese Arctic Climate Change Research Project (ArCS). Jeremy has substantial experience in international, multidisciplinary programs and enjoys an excellent working relationship with a wide range of stakeholders in the Polar Regions.



Petteri Taalas is the Secretary-General of the World Meteorological Organization (WMO). He was elected in May 2015 for a mandate running from 2016 to 2019. He was born in 1961 in Helsinki, Finland. He holds a PhD in Meteorology (Helsinki University, Physics department 1993, Univ. of Eastern Finland: meteorology, physics, physical chemistry and international development). Before joining WMO he was the Director-General of the Finnish Meteorological Institute 2002-2005, 2007-2015 (National weather, climate and marine Institute). He has also held positions in International development and scientific fields.



Dmitry Yumashev is a senior research associate at the Pentland Centre at Lancaster University. Dmitry Yumashev has been researching in a wide range of applied areas such as Fluid Mechanics, Aeroacoustics, Financial Mathematics, Applied Economics, Emergency Management, Climate and Arctic Science and Integrated Assessment Modelling, gaining experience in Russia, the UK, and in the Netherlands. He works with multiple ICE-ARC project partners from the UK, Germany, and the Netherlands, and is coordinating a wide range of R&D activities in the fields of Arctic science, economics of climate change and integrated assessment modelling of climate policy. d.yumashev@lancaster.ac.uk @vocal_modeller



Lene Kielsen Holm was secretary for the Minister for Housing and Infrastructure at the Homerule Government in Greenland, and then became special assistant within Inuit Circumpolar Council, ICC Greenland, where she dealt with Environmental and Sustainable Development Issues, working with the Arctic Council. She has worked with bodies such as IPY and KNAPK, the Greenlandic Association of Fishermen and Hunters where she interviews hunters, fishermen, sheep-farmers and other knowledgeable persons about their perception on a changing environment, with special interest of climate change. Lene has been Greenlandic coordinator for Siku-Inuit-Hila, an international and interdisciplinary project, where hunters from Alaska, Canada, and Qaanaaq in Greenland, together with researchers in multiple fields, have been brought together in the different regions of the Inuit countries, to exchange knowledge primarily on sea-ice and life with it. Lene is Researcher and Project leader at the Greenland Climate Research Centre, at the Greenland Institute of Natural Resources in Nuuk.

