

**Measurement****for our planet**

Providing confidence in climate action

Measurement for Climate Action

Join NPL and key stakeholders from the climate community to discuss how metrology – the science of measurement – can support climate action by providing improved confidence in data.

NPL is bringing together the international metrology community and climate science experts for this free two-day online workshop.

13 & 14 October 2021, 12:00–14:30 BST (11:00–13:30 UTC)

To find out more about this free event and register online, visit:
npl.co.uk/measurement-for-climate-action

In the run up to COP26, NPL is convening a workshop together with the international metrology community and the International Bureau of Weight and Measures (BIPM) - to engage with both the providers and end-users of climate science.

This free online event provides a forum for discussion between the measurement community and climate science stakeholders who may depend on measurement to inform and facilitate evidence-based decision making for climate action.

Two-day online workshop

Collaborating together to:

- Identify the most critical areas of focus for improving the quality system of climate science
- Share how metrology – the science of measurement – has already delivered impact in improving specific aspects of climate science
- Explore the potential impact of metrology capability that is currently in development
- Discuss how improvements in climate data quality could support international negotiations at COP and the ambitions of individual countries

Advancing climate science

Society has made huge advances in climate science to drive new insights and knowledge regarding climate change. Continuing this advancement requires new measurement capabilities, including better measurement accuracy for perceiving change, improved stability to identify multi-annual trends earlier, and integrated multi-scalar measurements and models for the many complex measurands that cannot be directly observed.

A range of experts and topics

This event will include a broad range of compelling speaker sessions and a lively panel debate on topics such as the observed emissions and climate data-related work of the National Metrology Institutes (NMIs), the need for a whole systems approach, and the forthcoming plans of the Metrology for Climate Action initiative.

Agenda

- Hear how the whole systems approach is an important principle to addressing climate change
- Learn about observed emissions and climate data-related programmes of work that National Metrology Institutes are delivering
- Hear from key organisations within the climate community on their perspectives regarding metrology needs to support climate action
- Listen to a lively panel session that will explore and debate the challenges ahead
- Find out about the forthcoming plans of BIPM and the World Meteorological Organisation (WMO), as they launch the Metrology for Climate Action initiative

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Speakers and the panel

Chair

Richard Barker

Head of Energy & Environment,
NPL

Speakers

Dr Bruce Forgan

Vice-president of the WMO Commission for Observation, Infrastructure and Information Systems (Infrastructure Commission), WMO

Dr Susanne Mecklenburg

Head of ESA Climate Office, ESA

Dr Robert Wielgosz

Steering Committee Member: BIPM-WMO Metrology for Climate Action Initiative, BIPM

Professor Nigel Fox

NPL Fellow in Earth Observation, Climate and Optical Radiometry
Chair of the CEOS WGCV IVOS Subgroup
UK science lead for the TRUTHS satellite mission, NPL

Dr Andrea Merlone

Senior Researcher, INRiM
CCT WG Environment Chairperson, BIPM
SC-MINT Expert Team "Measurement Uncertainty" Chairperson, WMO

Dr Hong Lin

Group Leader of Greenhouse Gas and Air Pollutant Inventory Research, NIM

Dr James R Whetstone

Special Assistant to the Director for Greenhouse Gas Measurement, NIST



Measurement for our planet

Find out more about how NPL supports UK leadership in global climate action and follow NPL's activities around *Measurement for our planet* in the run up to COP26, and beyond.

npl.co.uk/measurement-for-our-planet

