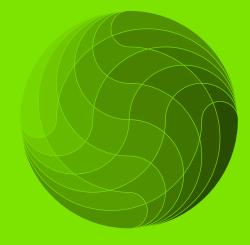
# NPL

# Measurement for our planet



# **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-scaler 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 datarelated 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.

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### 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

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



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 SG-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





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### **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

