



12 - 13 FEBRUARY 2020

## SET OF INTERNATIONAL WEBINARS ON METROLOGY NEEDS FOR CLIMATE AND OCEAN OBSERVATION

The [European Metrology Network for Climate and Ocean Observation](#) (EMN) is hosting a set of four webinars as a follow up to our recent survey to identify metrological needs in climate and ocean observation. The webinar sessions will prioritise requirements for improved quality assurance, uncertainty analysis and traceability in the observation and use of Essential Climate Variables (ECVs) and Essential Ocean Variables (EOVs).

Observations from in situ sensors, networks and satellites, and their transformation into bio- and geophysical quantities such as ECVs and EOVs, are the basis of the environmental information services used for societal and commercial applications. Metrology, the science of measurement, can provide a critical role in enabling robust, interoperable and stable observational records and can aid users in judging the fitness-for-purpose of such records. In these interactive webinars we will explore the potential for collaborative research and service development between Europe's National Metrology Institutes and observation experts. The EMN is the European contribution to a global effort to further enhance metrological best practice into such observations, and we welcome worldwide contributions.

The webinar is a follow on to the surveys available at [www.euramet.org/coo-survey-2019](http://www.euramet.org/coo-survey-2019). These surveys will remain open until the webinars, and results received before 24 January 2020 will be summarised in a report sent to all those registered for the webinars a week before the webinars. The webinars were originally advertised as a workshop, but we received many requests for web-based interaction and believe that changing to a webinar will increase participation from a wider community, including those beyond Europe. We also value the opportunity to reduce our carbon footprint by allowing flight-free participation!

Webinar	Time (GMT, UTC)	Time (CET)	Time Beijing	Time East Coast USA
Atmospheric Observations from in situ and on site sensors and networks (non-satellite)	09:00 – 11:00 12 Feb	10:00 – 12:00 12 Feb	17:00 – 19:00 12 Feb	In night
Ocean Observations from in situ and on site sensors and networks (non-satellite)	15:00 – 17:00 12 Feb	16:00 – 18:00 12 Feb	In night	10:00 – 12:00 12 Feb
Using ECV and EOv records for scientific, societal and commercial applications	09:00 – 11:00 13 Feb	10:00 – 12:00 13 Feb	17:00 – 19:00 13 Feb	In night
Satellite observations of ECVs	15:00 – 17:00 13 Feb	16:00 – 18:00 13 Feb	In night	10:00 – 12:00 13 Feb

Detailed information is available below.

**Register for the Webinars at:** <https://www.euramet.org/publications-media-centre/event/international-webinar-on-metrology-needs-for-climate-and-ocean-observation/>

## Webinar 1: Atmospheric Observations from in-situ and on-site sensors and networks (non-satellite). Wednesday 12 February

Time GMT	Time CET	Time Beijing	Activity
08:45	09:45	16:45	Open line.
09:00	10:00	17:00	Introductions and welcomes
09:05	10:05	17:05	Intro to workshop
09:15	10:15	17:15	<b>Paolo Laj, ACTRIS</b>
09:35	10:35	17:35	<b>Bertrand Calpini, WMO</b>
09:55	10:55	17:55	What are main common challenges for this community? Interactive session with online questions, discussion by text and spoken contributions
10:15	11:15	18:15	What is missing from the community needs identified in survey? Interactive session with online questions, discussion by text and spoken contributions
10:35	11:35	18:35	Prioritisation of identified needs – interactive voting on prioritisation and discussion of prioritisation choices
10:55	11:55	18:55	Sum up
11:15	12:15	19:15	Close

## Webinar 2: Ocean Observations from in situ and on site sensors and networks (non-satellite). Wednesday 12 February

Time GMT	Time CET	Time EST	Activity
14:45	15:45	09:45	Open line.
15:00	16:00	10:00	Introductions and welcomes
15:05	16:05	10:05	Intro to workshop
15:15	16:15	10:15	<b>Nadia Pinardi Bologna University</b>
15:35	16:35	10:35	<b>Kirsten Isensee IOC-UNESCO</b>
15:55	16:55	10:55	What are main common challenges for this community? Interactive session with online questions, discussion by text and spoken contributions
16:15	17:15	11:15	What is missing from the community needs identified in survey? Interactive session with online questions, discussion by text and spoken contributions
16:35	17:35	11:35	Prioritisation of identified needs – interactive voting on prioritisation and discussion of prioritisation choices
16:55	17:55	11:55	Sum up
17:15	18:15	12:15	Close





### Webinar 3: Using ECV and EOV records for scientific, societal and commercial applications. Thursday 13 February

Time GMT	Time CET	Time Beijing	Open line.
08:45	09:45	16:45	Introductions and welcomes
09:00	10:00	17:00	Intro to workshop
09:05	10:05	17:05	<b>Kate Willett, Met Office</b>
09:15	10:15	17:15	<b>Andre Obregon, Copernicus Climate Change Service</b>
09:35	10:35	17:35	What are main common challenges for this community? Interactive session with online questions, discussion by text and spoken contributions
09:55	10:55	17:55	What is missing from the community needs identified in survey? Interactive session with online questions, discussion by text and spoken contributions
10:15	11:15	18:15	Prioritisation of identified needs – interactive voting on prioritisation and discussion of prioritisation choices
10:35	11:35	18:35	Sum up
10:55	11:55	18:55	Close
11:15	12:15	19:15	Open line people arrive

### Webinar 4: Satellite observations of ECVs. Thursday 13 February

Time GMT	Time CET	Time EST	Activity
14:45	15:45	09:45	Open line.
15:00	16:00	10:00	Introductions and welcomes
15:05	16:05	10:05	Intro to workshop
15:15	16:15	10:15	<b>Phillippe Goryl, ESA</b>
15:35	16:35	10:35	<b>Invited speaker 2 (TBC)</b>
15:55	16:55	10:55	What are main common challenges for this community? Interactive session with online questions, discussion by text and spoken contributions
16:15	17:15	11:15	What is missing from the community needs identified in survey? Interactive session with online questions, discussion by text and spoken contributions
16:35	17:35	11:35	Prioritisation of identified needs – interactive voting on prioritisation and discussion of prioritisation choices
16:55	17:55	11:55	Sum up
17:15	18:15	12:15	Close