SIOS training course on metrology in Svalbard

Getting started
- Introduction

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WMO OMM
World Meteorological Organization
Organisation météorologique mondiale

18 - 20 June 2022
Objective

Introduction to metrology in meteorology, terminology and vocabularies, calibration and measurement uncertainties, temperature calibration, projects.
Day 1 – 18 June 2022

Getting started

- Welcome
- Housekeeping
- Introduction to workshop
- Training agenda
- Participants Introductions: Name, Country, Position (1 minute per person!)
Day 1 – 18 June 2022

Metrology in Meteorology
- General principles of metrology
- World Institutions
- Traceability chain

Terminology and Vocabularies
* Correct measurement terminology
* Vocabularies and legal aspects
Day 2 – 19 June 2022

Calibration and Measurement Uncertainty

- A complete overview on definition, processes and methods to evaluate uncertainties in laboratory calibration and field measurement processes

- Case study: calibration of thermometers (Carmen Garcia Izquierdo – Spain – CEM)
Day 3 – 20 June 2022

• Definition of the measurand
  * Air temperature

Metrology projects and activities of interest

Roundtable – discussion
Further reading

Guide to Instruments and Methods of Observation
https://library.wmo.int/index.php?id=12407&lvl=notice_display#.YJqHf6FvFaQ

International vocabulary of metrology – Basic and general concepts and associated terms (VIM)
https://www.bipm.org/documents/20126/2071204/JCGM_200_2012.pdf/f0e1ad45-d337-bbeb-53a6-15fe649d0ff1

Guide to the expression of uncertainty in measurement
https://www.bipm.org/documents/20126/2071204/JCGM_100_2008_E.pdf/cb0ef43f-baa5-11cf-3f85-4dcd86f77bd6

WMO Knowledge-sharing Portal
https://community.wmo.int/activity-areas/imop/knowledge-sharing-portal

WMO Library
https://library.wmo.int/
Thank you
Merci