***Support for in-person attendance at the MINKE Workshop: An introduction to measurement uncertainty for young and early career marine scientists***

Monitoring the state of the oceans, both in terms of chemical and physical parameters, can be a demanding task, due to the highly variability and complexity of the marine environment.

The application of the metrological concepts to the oceanographic research is not always straightforward, but represent a pillar in supporting the collection of sound and reliable data from the global monitoring networks. A fundamental aspect in the metrological framework is the evaluation of the measurement uncertainty, being a paramount property of every measurement result, which assures the comparability of data collected all over the world.

In this context and to contribute to reach this goal, the EU project MINKE is organising a new three-days training-workshop entitled “An introduction to measurement uncertainty for young and early career marine scientists” to integrate the training in metrology for marine scientists started in 2022.

The workshop will be held from **25th to 27th September 2023 in Torino, Italy**, with an entirely on-site participation.

The first day of the workshop will be devoted to give an overview on the topics related to measurement uncertainty; the second day will focus on the measurement uncertainty context, where specific case studies and issues will be discussed. Finally, the third day will be organised with visits to INRiM laboratories and a round table with all the participants, to promote an interactive discussion on the covered themes.

Support is foreseen for in-person attendance, and participants wishing to avail of this possibility should fill in the attached application form (appendix 1 below) and send it to the organizing committee by **4th September 2023**.

The expenses related to travel (from an applicant’s country/town of residence to Torino and back) and local accommodation costs will be eligible. The workshop organizers will refund the expenses of the participants for the travel and accommodation on a “first come, first served” basis. The reimbursement will be finalized after the workshop and priority will be given to applicants from the developing countries and to students/early-career scientists in scientific areas related to the workshop themes (oceanography, biology, chemistry, physics…).

**MINKE** stands for **M**etrology for **I**ntegrated marine ma**N**agement and **K**nowledge-transfer n**E**twork, and it is an EU project that is aiming to try to lay down the foundations of a framework for making measurements coming from Ocean and Coastal Observing Systems more reliable. The project is funded under the European Union’s Horizon 2020 Call entitled “Integrating and opening research infrastructures of European interest”.

The overall goal of MINKE is to integrate key European marine metrology research infrastructures, and to coordinate their use and development working together with stakeholders such as the marine research organisations, instrument manufacturers, the international metrology community, academia, industry, and civil society. The project is proposing an innovative framework of “data quality” for marine data that is multidimensional in character, considering not only “accuracy” but also other dimensions such as “completeness”.

*Find out more about the MINKE project at*: https://minke.eu/

**APPENDIX 1. Application for receiving financial support to participate in the MINKE workshop**

1. Name and current address of the applicant

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1. Nationality and country of residence (if different from the country of origin)

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1. English language skills
   1. No Proficiency
   2. Elementary Proficiency
   3. Limited Working Proficiency
   4. Professional Working Proficiency
   5. Native / Bilingual Proficiency
2. Are you a student of the Marine Sciences? If yes, specify the details of your course of study
   1. Undergraduate or postgraduate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. Name of university, institution, etc.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. Faculty/program\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   4. State of progress (e.g. number of credits completed, number of years completed) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   5. Explain shortly (max. 1000 characters) how you expect the workshop to help you in your studies \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Are you an early-career marine scientist? If yes, specify the details of your current position
   1. Degree\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. Year of completion of Degree\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. Employer\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   4. Current position and job description \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   5. Explain shortly (max. 1000 characters) how you expect the workshop to help you in your work \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Are you a member of the technical personnel of marine sciences? If yes, specify the details of your current position
   1. Degree\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. Year of completion of Degree\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. Employer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   4. Current position and job description \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   5. Explain shortly (max. 1000 characters) how the workshop will support your work \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Estimated costs of following travel expenses (in Euros):

Travel expenses (Airplane/train/ferry etc.) to Torino (return)

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Local travel expenses in your country of residence

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1. Estimated cost of accommodation (max 3\* hotel/ in Euros)

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**Please send application form by 4th September 2023 to:** [**f.rolle@inrim.it**](mailto:f.rolle@inrim.it) **and to** [**f.durbiano@inrim.it**](mailto:f.durbiano@inrim.it)