

AIRQ Collection: HARMO23- Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes



Aims and Scope:

The series of *International Conferences on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes (HARMO Conferences)* is a main activity of the International Initiative on this topic, started in 1991. Originally born as a European initiative for regulatory purposes, the Harmo Initiative and its conference series have developed in an open intercontinental forum. The final goal is the improvement of dispersion models for regulatory purposes and for real-time applications, addressing latest scientific findings and meeting specific demands of society and regulators. 'Harmonisation' is motivated by the goal of employing the best available meteorological and air quality sciences in a consensual way to best serve the needs of the society and citizens.

The 23rd HARMO Conference (HARMO23) took place at the Earth System Sciences Department at University of Hamburg from September 15th to 19th, 2025. The conference was organized jointly by colleagues from the Meteorological Institute at the University of Hamburg and the Helmholtz-Center Hereon (Geesthacht).

The collection contains a selection of full-length papers, derived from the contributions discussed at the conference, and covers its key topics:

- Approaches to model evaluation and quality assurance
- Regional and long-range scale modelling
- Urban scale and street scale modelling
- Health and Exposure assessments
- Inverse modelling, source identification and appointment
- Dispersion modelling and exposure to accidental releases
- Air pollution management and decision support systems
- Support to EU legislation an air quality modelling
- Theoretical studies on atmospheric dispersion processes
- Special Session 1: Emerging fields of air quality modelling
- Special Session 2: Results from the MODISAFE project

Guest Editors:

Dr. Silvia Trini Castelli, Institute of Atmospheric Sciences and Climate, National Research Council, Torino, Italy; s.trinicastelli@isac.cnr.it (lead guest editor)

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**** PLEASE NOTE THIS COLLECTION IS BY INVITATION ONLY:** link:*

<https://link.springer.com/collections/igbchbcbic>

Timeline: Submission portal opened: **10 July 2026**

Deadline for manuscript submission: **14 September 2026**

How to submit: Manuscripts should be original and written in English. The suggested length per research article is up to 10,000 words, excluding references. Submission requires that the author has to confirm that the manuscript has not been submitted for review or publication elsewhere and that it will not be submitted elsewhere while the review process is underway. All papers will go through external peer review by at least three experts.

Papers should be submitted via <https://www.editorialmanager.com/airq/>. Please indicate that this is a submission for the '**HARMO23 - Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes**' Collection/Special Issue on the author checklist during the submission process.

Details and guidelines about the preparation of the manuscript can be [obtained here](#). It is important to follow the guidelines closely, failing which a paper will not be considered for review.