

39th ICP M&M Task Force meeting, 30th CCE and 4th CDM meetings

Our 39th Modelling and Mapping Task Force meeting, together with the 30th Coordination Centre for Effects (CCE) and 4th Centre for Dynamic Modelling (CDM) meetings were held in Prague (Czech Republic) from 28th to 30th of March 2023. It gathered 52 delegates at the most, from 19 countries including representatives of the Convention intergovernmental bodies, expert groups and scientific centers (WGE Bureau, ICP Forests, ICP Integrated Monitoring, ICP Vegetation and ICP Waters, and the CIAM). Several experts presented their recent progress in the field of critical loads (CL) and other ICPs were invited to present the state of play of their work. The meeting allowed ICP M&M community to be informed on the progress of activities of CCE, including the national contributions received following the most recent call for data including 2022 revised empirical CL of N and the update of the European receptor map. CDM also reported on its progress regarding the further development on dynamic modelling (DM) and its recent workshop on C-N interactions. Besides this reporting on ongoing activities within the biennial 2023-2024 workplan, other topics were tackled during the meeting, including the possibility to develop outreach activities, such as an e-learning course on CL, and to deepen possible links between the Convention and some of the Convention on Biological Diversity indicators.

➤ Our 2023 report on these activities including the meeting proceedings is available at the [CCE website](#).

Any question? @ alice.james@ineris.fr @ cce@uba.de @ cdm@ivl.se

Recent activities of the ICP since early 2023 and upcoming events

02/2023	CCE, CDM and ICP M&M Chair attended WGE/EMEP Bureaux meeting (online)
02/2023	CCE attended ICP Vegetation (online)
03/2023	CCE and CDM attended Saltsjöbaden VII meeting in Gothenburg
03/2023	CCE, CDM and ICP M&M Chair organized the ICP M&M annual meeting (Prague/CZ)
04/2023	CCE attended Acid Rain conference (Niigata/Japan)
04/2023	CCE, CDM and ICP M&M Chair attended WGE/EMEP Bureaux meeting (Uppsala)
05/2023	CCE and ICP M&M Chair attended meeting of ICP Integrated Monitoring and ICP waters (Lunz/AT)
06/2023	CCE and ICP M&M Chair attended ICP Forests (online)
09/2023	Joint meeting of EMEP/WGE (Geneva/Switzerland)

DM work and expert workshop on C-N interactions

In modelling the effects of air pollution on ecosystems, including modelling of nitrogen effects and modelling of impacts on biodiversity, the interactions between carbon and nitrogen represent a clear and important overlap where modelers could and should be providing an input to policies. An expert workshop on C-N interactions has been organized back-to-back with the 2023 ICP M&M and centers annual meetings (Prague, Czech Republic, 28 March 2023). This workshop was part of the ICP M&M 2022–2023 workplan ([ECE/EB.AIR/148/Add.1](#), item 1.1.1.23). Apart from further work on effects of N deposition on ecosystems and interaction of air pollution and climate change, modelling biodiversity change and modelling of impacts on soils has been identified as the most important areas of work. The meeting also stressed the importance of observational data from monitoring and from ecosystem experiments for model applications and development.

Any question? @ cdm@ivl.se

Preparing instruction documents for recent and upcoming Call for Data

At the last ICP M&M meeting, the recent call for data (CfD) focusing on the application of the currently updated empirical CL was discussed and several NFC expressed their intention to respond to this call. The insights from the discussion and the feedback already provided might lead to an update and expansion of the original documents. In addition, the upcoming CfD (timeframe 2024–2025) was also discussed. This CfD will essentially aim at updating the politically relevant CL. However, concrete content of the next CfD is not yet finalized and will be discussed at the next meetings.

- News around the CfD and additional information can be found [on the CCE website](#).

Any question? @ cce@uba.de

Update of the European Receptor map

The update the harmonized Convention receptor map is part of the ICP M&M 2022–2023 workplan (item 1.1.1.21). Work on the recently updated map of European receptors has been completed and the final technical report will be available soon. The CCE has already started distributing samples of the dataset to interested NFCs and other CLRTAP institutions. The results of the application of the data by the already active users will be collected and used to produce a user manual alongside the more technical report mentioned above.

- NFCs interested in data samples are welcome to [contact the CCE](#) to arrange data sharing from Sept. 2023.

Any question? @ cce@uba.de

Critical levels for ammonia and Mapping Manual update

The review of the critical levels for ammonia is part of the ICP M&M 2022–2023 workplan (item 1.1.1.22). A substantial amount of new data and scientific papers have become available since the last update and these have been discussed in a workshop organized by CCE in Dessau in March 2022. The proceedings and main results of the workshop are published. Updates have now been transferred to the Mapping Manual and approved by experts of the field (ICP V, ICP M&M). The draft revised chapter 3.2.3 on ammonia critical levels of the Mapping Manual will be presented at the 9th Joint EMEP/WGE meeting for approval.

As discussed at the last ICP M&M meeting, the application of the critical levels for ammonia and in particular the linkage with the available receptor data is a challenge. The presentation of the exceedance of the critical levels also needs to be reconsidered. As agreed, the CCE plans to set up an expert group to find solutions to the above challenges. This activity is to be resumed after the summer break.

- Please, [let us now at CCE](#) if you would like to participate to this group.

Any question? @ cce@uba.de