

Revised mandate for the EMEP Task Force on Measurements and Modelling (TFMM)

The EMEP Steering Body, considering the evolution of EMEP since the TFMM was established in 1999 decided:

1. The mandates for the EMEP task forces need to be revised and updated to make them consistent with current provisions and priorities of the Convention and EMEP set in the following documents:

- (a) Revised Strategy for EMEP for 2010-2019 (ECE/EB.AIR/2009/16/Rev.1);
- (b) EMEP Revised Monitoring Strategy 2010-2019 (ECE/EB.AIR/GE.1/2009/15);
- (c) Long-term Strategy for the Convention on Long-range Transboundary Air Pollution (ECE/EB.AIR/106/Add.1);
- (d) The 2016 scientific assessment of the Convention;¹
- (e) Policy response to the 2016 scientific assessment of the Convention (ECE/EB.AIR/WG.5/2017/3, ECE/EB.AIR/WG.5/2017/3/Corr.1 and ECE/EB.AIR/2017/4 forthcoming);
- (e) Draft 2018-2019 workplan for the implementation of the Convention.

The revised mandates will include key objectives and functions of the task forces and centres. The mandates are expected to be in force for the next 5 to 10 years. Specific activities and related deliverables on a shorter timeframe will be included in the bi-annual workplans for the implementation of the Convention.

2. The Task Force for Measurements and Modelling was established in 1999 by decision of Executive Body of the Convention to offer a forum to the Parties, the EMEP centres and other international organizations for scientific discussions to evaluate methods and tools for the measurements and modelling of air pollution.

3. Within the period of its existence, TFMM has supported Parties to the Convention, *inter alia*, through the following actions:

- a) continuously discussed and fostered the development of an observational network and modelling tools that are essential for the verification of the impact of the actions taken on pollutants emission reduction;
- b) actively participated in elaborations, discussions, revisions and implementation of the EMEP monitoring strategy in cooperation with CCC;
- c) contributed to the improvement of the scientific understanding of the processes that control European air pollution levels through regular intensive measurement campaigns;

¹ See Rob Maas and Peringe Grennfelt, eds., *Towards Cleaner Air: Scientific Assessment Report 2016* (Oslo, 2016) and United States Environmental Protection Agency and Environment and Climate Change Canada, *Towards Cleaner Air: Scientific Assessment Report 2016 – North America* (2016, online report).

- d) coordinated benchmarking of EMEP modelling tools by means of model comparison projects and focused case studies, in particular by liaising with MSC-E and MSC-W;
- e) supported sharing, use and evaluation of EMEP models as tools for the assessment of air pollution transport and deposition at national and regional levels by the Parties;
- f) performed and published assessment reports and trend analyses of air pollution concentrations and deposition in the EMEP domain over the past 40 years.

Annex

Revised mandate for the Task Force on Measurements and Modelling

1. The Task Force on Measurements and Modelling, under the leadership of France and WMO, and in view of up-to-date scientific knowledge and technical developments of its Parties and worldwide will continue to examine the needs and requirements of the Parties to the LRTAP Convention with the goal to support the improvement of tools and good practices to monitoring the state of the air pollution and to model the past and future changes of concentrations of air pollutants, transboundary fluxes, and deposition within the EMEP region.
2. The lead Parties will assume main responsibility for coordinating the work of the Task Force, including coordination of technical projects, provision of deliverables according to the mandate and respective workplans, organizing TF meetings and ensuring communication among Parties and relevant Convention bodies.
3. The Task Force will report on its activities and deliverables to the Steering Body to the Cooperative Programme for Monitoring and Evaluation of the Long-range Transmission of Air Pollutants in Europe (EMEP).
4. The Task Force will be composed of experts nominated by Parties to the Convention, invited experts and representatives of the EMEP Centres responsible for tasks related to measurements and modelling (CCC, MSC-E and MSC-W). Meetings of the Task Force will be open to designated representatives of intergovernmental or accredited non-governmental organizations. The chair(s) are encouraged to invite individuals with expertise relevant to the work of the Task Force. Reports, prepared by the Task Force reflect the full range of views expressed at its meetings.
5. All reports prepared by the Task Force will reflect the full range of views expressed during its meetings.
6. The functions of the Task Force will be to:
 - a) Provide a forum for the Parties to share knowledge, experiences, views, suggestions and develop recommendation on the issues related to air quality, efficiency and sufficiency of EMEP measurements and modelling.
 - b) Provide an opportunity for the Parties and EMEP Centres (MSC-E, MSC-W, CCC) to discuss performance of measurements and models (EMEP models and those developed by the Parties), and their improvements, bearing in mind the scope and range of their application (such as for national assessments of air quality, assessment of transboundary fluxes and their influence on air quality, trend analyses, etc.);
 - c) Plan and conduct its technical work towards implementation of the Monitoring Strategy of EMEP taking into consideration challenges encountered at national levels, best practices available and recommendations provided by the EMEP Manual for Sampling and Chemical Analysis;

- d) Interpret and assess the observations and modelling results related to air pollution levels, assess its temporal and spatial trends and contribute to the evaluation of the effectiveness of the implementation of the Convention and its Protocols;
 - e) Ensure the coordinated efforts of Parties in organization and conduction of the intensive measurement periods and focused case studies, following data processing, model interpretation and results dissemination;
 - f) Provide support and facilitate involvement of Parties in Eastern Europe, the Caucasus and Central Asia for example with respect to setting up monitoring stations and national programs, case studies, use of models and promoting the tools developed under EMEP during workshops and other dedicated meetings;
 - g) Collaborate with CCC, MSC-W, MSC-E, CEIP, TF-EIP, TF-HTAP, TF-IAM, and Working Group on Effects to evaluate emission inventories, improve the modelling tools to serve the integrated modelling and effects assessment, ensure the consistency between the regional and hemispheric scale analyses;
 - h) Strengthen linkages with the European Union scientific programmes and infrastructures (like Copernicus or ACTRIS) with a focus on development of common tools and regional assessments; develop joint activities with European and international organizations and conventions (e.g. JRC, EEA, WMO) to ensure synergies between regional and global scales, strengthening national activities,
 - i) Carry out other specific tasks assigned by the EMEP Steering Body and the Executive Body through bi-annual workplans.
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