

Revised mandate for the Chemical Coordinating Centre (CCC)

The EMEP Steering Body, considering the evolution of EMEP since the CCC was established decided:

1. The mandates for EMEP Centres need to be revised and updated to make them consistent with the 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);
- (f) 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 Chemical Coordinating Centre (CCC) was established by decision of Executive Body to offer to the Parties, the EMEP task forces (in particular the Task Force on Measurements and Modelling) and other international organizations modelling tool for scientific assessment of past trends and current status in air pollution throughout the ECE region and evaluating the impact of the implementation of the Protocols of the Convention.

3. Within the period of its existence, CCC has supported the Convention and EMEP *inter alia*, through the following actions:

- a) Developed and updated the EMEP monitoring strategy (including quality assurance framework) and supporting the Parties in its implementation to ensure availability of high quality comparable data on air pollution throughout the ECE region;
- b) Promoted and disseminated best practices available and recommendations for implementation of the EMEP monitoring strategy, in particular thanks to the provision of the EMEP Manual for Sampling and Chemical Analysis;
- c) Contributed to the improvement of the scientific understanding of the processes that control European air pollution levels through regular intensive measurement campaigns;
- d) Participated to the elaboration of assessment report and trend analyses of air pollution concentrations and deposition in the EMEP domain over the past 40 years;

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).

e) Developed and maintained of the EBAS database which collects, gathers, checks and publishes all observations and measurements realized by the Parties to the Convention;

f) Supported and assisted Parties for running new observation sites, especially in the Eastern Europe, the Caucasus and Central Asia.

Annex

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1. The Chemical coordinating Centre hosted by NILU in Norway, has been carrying out its functions as one of three cooperating international centres of the Cooperative Programme for Monitoring and Evaluation of the Long-range Transmission of Air Pollutants in Europe (EMEP) as indicated in Article 1 of the EMEP Protocol to the Convention. It will be responsible for providing scientific support to the Convention with information on measurements of all pollutants and precursors addressed by the Convention.

2. The Centre will assume principal responsibility for coordinating the relevant activities under EMEP including development of technical projects, provision of annual reports and access to all relevant information and data, provision of deliverables according to the workplan, participation in the relevant task force meetings, organization of technical workshops and training workshops, and provision of communication with and direct support to Parties.

3. The Centre will be responsible for the production and the provision with respect to the processes set by the EMEP Steering Body (in particular regarding the time lines) of all information and data necessary for the implementation of the Convention and its Protocols in the Parties. The Centre will report on its activities and deliverables to the Steering Body to EMEP.

4. The scientific and technical activities developed by the Centre beyond this mandate should be discussed and approved by the EMEP Steering Body and be included in the biannual workplan.

5. EMEP Centres are co-funded through the Convention trust fund managed by ECE. The draft EMEP budget is developed by the EMEP Steering Body according to the priorities of EMEP and the Convention. The Executive Body decides about the workplan and the associated EMEP budget.

6. The functions of the Centre will be to:

(a) Development and coordination of the observation activities required to assess air pollution across the EMEP geographical domain:

(i) Developing and revising the EMEP monitoring activities (monitoring strategy) in collaboration with TFMM, Parties and others;

(ii) Assist Parties in implementing the monitoring strategy; Motivate Parties, Agencies and Scientific groups to be involved in EMEP activities;

(iii) Make efforts to strengthen activities in regions with inadequate monitoring activities;

(iv) Ensure links with other organizations and programs communities undertaking measurements of atmospheric composition and deposition;

(b) Securing and improving the quality and representativeness of observations

(i) Developing adequate methodology to support EMEP needs where not available elsewhere, harmonization with CEN, ISO and the Metrology community etc.;

- (ii) Responsible for developing and updating the measurement guidelines and standard operation procedures in co-operation with TFMM, WMO/GAW and others;
 - (iii) Responsible for organizing training courses and undertaking site visits (selection of new sites, audits) and laboratory audits;
 - (iv) Arranging regular laboratory intercomparisons for all variables required by the EMEP monitoring strategy, and linking results to data usage and interpretation;
 - (v) Arranging field intercomparisons; Assessment of representativeness of observations
- (c) Quality assurance and quality control of data submitted by Parties
- (i) Development of data reporting templates allowing sufficient meta-data provision;
 - (ii) Training and assistance to personnel involved in data reporting;
 - (iii) Technical handling of data flow; Check of individual datasets submitted, including statistical methods, visual inspection of time series plots, consistency in time and space; bi-lateral discussions, corrections and re-submissions with data originators.
 - (d) Archival and dissemination of observation data and associated meta-data to users including development and operational support of the underlying IT-infrastructure used to host data and provision of access to data for operational users (other EMEP centers, external modeling groups, external users (EEA, WMO-GAW, COPERNICUS, others);
 - (e) Improve timeliness of observation data to users (EMEP Near-Real-Time);
 - (f) Assessment of data and information to stakeholders about results from monitoring activities
 - (g) Support Parties, EMEP centers and others in data assessments and interpretations; Offer expert advice in the use of data, taking into account knowledge about data quality and other metadata; Prepare data reports providing status of observations and main findings;
 - (h) Contribute to the EMEP Status reports prepared for the EMEP Steering Body;
 - (i) Serve the interest of EMEP monitoring activities towards relevant activities under other frameworks to ensure harmonization, efficient use of resources and multiple use of data. Promote the use of EMEP observations in supporting European scale assessment of air pollution and source apportionment with respect to monitoring required in response to EU-directives; maintain links to external bodies addressing similar issues within Europe (EEA, HELCOM, OSPAR, others); maintain links to external bodies addressing similar issues outside Europe (AMAP, WMO-GAW, UNEP Stockholm Convention, UNEP Minamata Convention, regional programs in Northern America, South East Asia and elsewhere (in collaboration with HTAP); Promote EMEP observations as a contribution to COPERNICUS and GEOSS; Encourage the involvement of research groups to ensure implementation of EMEP Level 2 and Level 3 monitoring activities.;
 - (j) Report on its activities and deliverables to the Steering Body to EMEP and Working Group on Effects and participate in annual meetings of the relevant Task Forces (TFMM, TFHTAP).
 - (k) Carry out other tasks assigned to it by the EMEP Steering Body and the Executive Body.