

Perspectives on collaboration between TFMM and FAIRMODE

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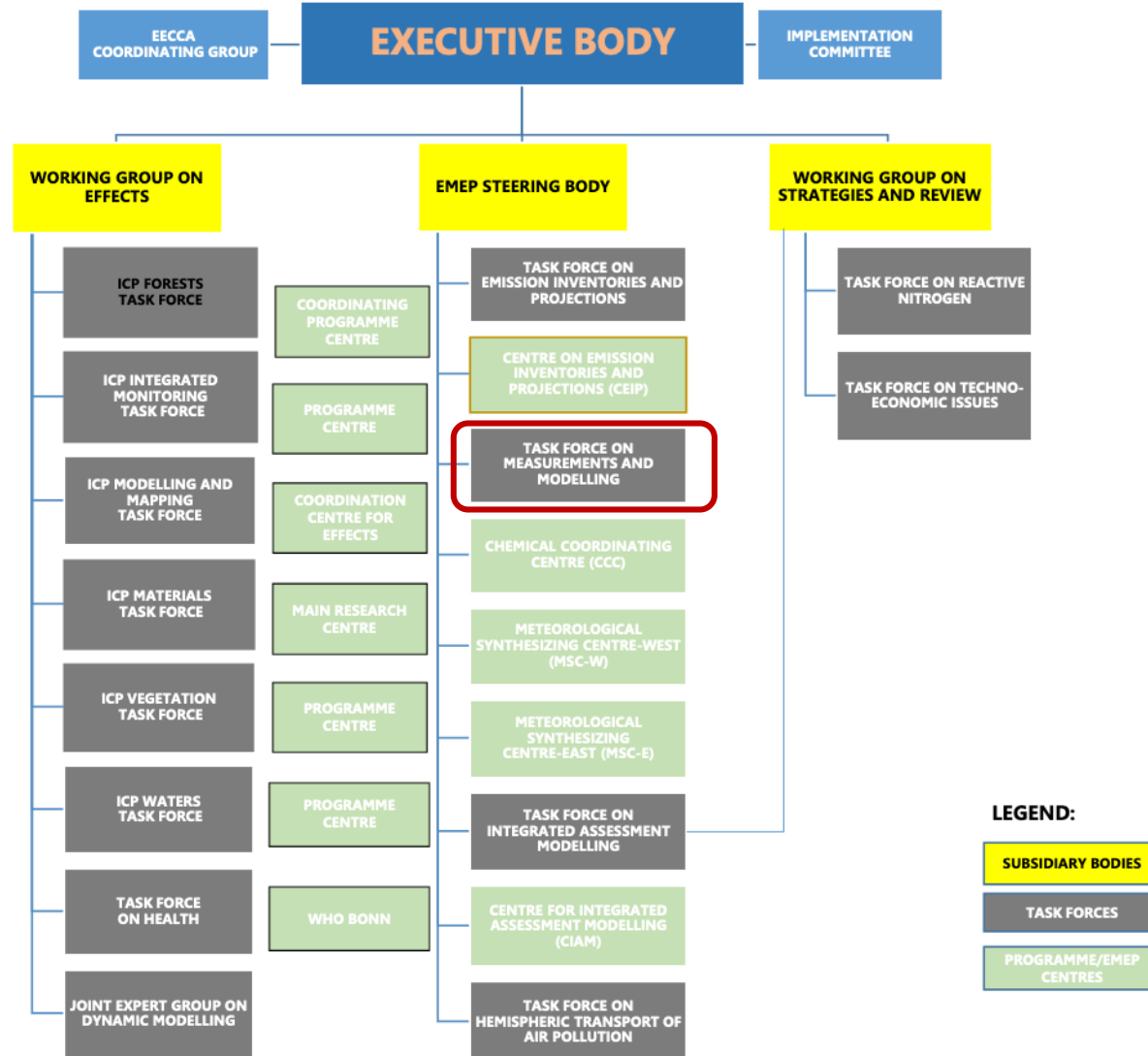
26/02/2024, FAIRMODE Plenary Meeting

Convention on Long-range Transboundary Air Pollution

- Long-range transboundary air pollution means air pollution whose physical origin is situated wholly or in part within the area under the national jurisdiction of one State and which has adverse effects in the area under the jurisdiction of another State at such a distance that it is not generally possible to distinguish the contribution of individual emission sources or groups of sources (Article 1).
- The 1984 protocol on long-term financing of the **cooperative programme for monitoring and evaluation** of the long-range transmission of air pollution in Europe (EMEP Protocol) is a monitoring programme which forms the backbone for the review and assessment of European air pollution in the light of agreements on emission reduction.
 - EMEP has three main components: collection of emission data; measurement of air and precipitation quality; and modelling of atmospheric dispersion



LRTAP Convention structure



TFMM Mandate

The functions of the Task Force on Measure:

- 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.);
- 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;



TFMM Mandate

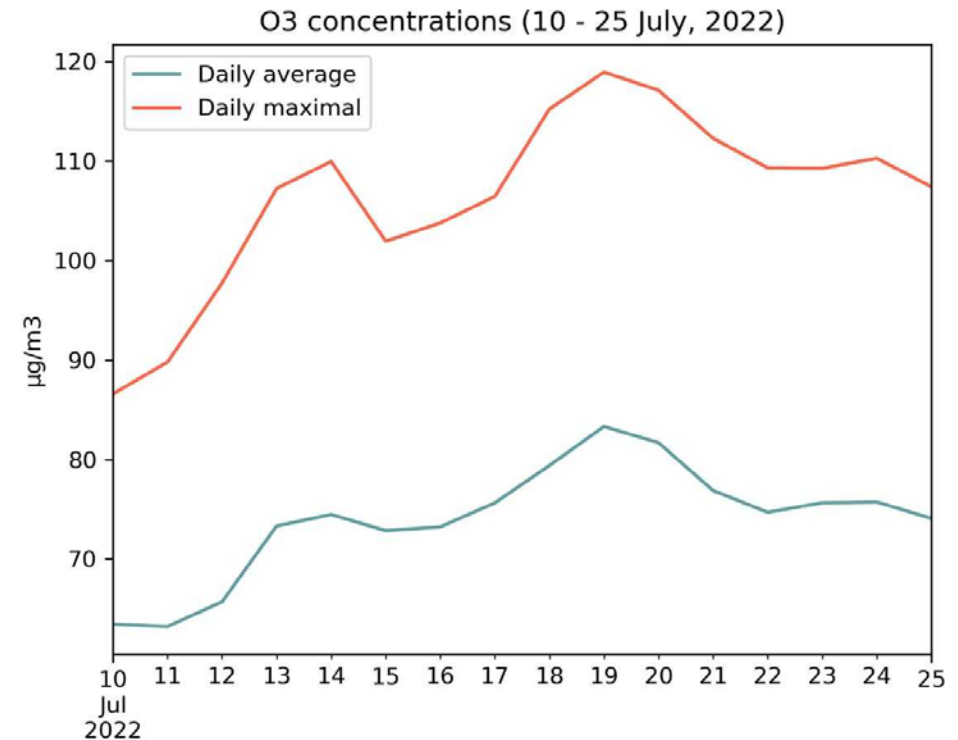
The functions of the Task Force:

- 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;
- 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**



TFMM Workplan 2024-2025

1. Ozone modelling exercise (July 2022), sensitivity to VOC, observation from the campaign (Joanna Struzewska, IOS-PIB)
1. Measurement campaign oriented towards VOC in urban regions in 2024 (Wenche Aas, NILU)



TFMM Workplan 2024-2025

3. Modelled PMs composition (preparation for the modelling exercise in 2025 or 2026)

- a. Aerosol chemical speciation in different models
- b. Representation of intermediate and semi-volatile condensable emissions

4. Chemicals of emerging concern

5. Assessment of the BaP related health effects

6. Low-Cost Sensor review of WMO



TFMM Workplan - ideas for the next period

- Dust (FAIRMODE) and wild fires exercise (TF HTAP)
- Transboundary assessment
- Benchmarking of EMEP emission with JRC tools (in cooperation with TFEiP)
- Source-receptor methodologies



25TH annual TFMM meeting (Warsaw, Slowicza 32)

6-7 May 2024



Topics:

- Ozone variability in Europe (episodes/heat waves, long-term trends, impact of fires, impact of methane)
- Ozone and VOC monitoring and modeling with a focus on EMEP campaigns
- Representation of PM chemical composition in air quality models (OC/BC, BaP, condensable emissions)
- Chemicals of Emerging Concern
- Low-Cost Sensors
- General country updates

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Thank you

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