

Progress report on the activities of the Task Force on Monitoring for Dry Deposition

SAC20

23-24 September 2020

Virtual Meeting

Chair and Secretariat of the Task Force

1

1

TOR and member of the Task Force on MDD

(TOR)

- i) To further develop and elaborate the strategy for dry deposition evaluation in the region
 - ii) To discuss on future direction of dry deposition evaluation and provide guidance on relevant activities based on the strategy
 - iii) To improve the Technical Manuals for Air Concentration Monitoring and Dry Deposition Flux Estimation
- Establish Expert Group on revision of the Technical Manuals (EGRTM) as shown in Page 3-4 of EANET/SAC 20/9/1

(Member)

Besides the Chair, one member from each EANET participating country has been nominated as the TFMDD member. Because some members of the Task Force in EANET participant countries are inactive, the member list has been renewed in consultation with the NFP.

The member list is shown in Page 3 of EANET/SAC 20/9/1.

2

2

Results of the 1st meeting of EGRTM (EGRTM1)

EGRTM1 was held at the virtual meeting on 23 April 2020. The minutes of EGRTM1 is attached as [EANET/SAC 20/9/1/Annex 1](#).

(Major discussions; also see [Page 4-6 of EANET/SAC 20/9/1](#))

- The contents of technical manuals should follow the Guidelines for Acid Deposition Monitoring in East Asia, not the Strategy Paper.
- The measurement of the dry deposition is recommended to conduct at the same site of wet deposition monitoring site as described in the Guideline.
- The DQO depends on the monitoring purpose. The objective of EANET monitoring is to estimate the long-term trends.
- A suitable method to estimate dry deposition flux in EANET countries should be considered.
- It is also recommended to update the new resistance model for estimation of the dry deposition flux of particulate components and gases.
- The 2nd revisions of the Technical Manuals will be prepared and circulate them to the EGRTM members for comments by early 2021

3

3

Results of the 5th meeting of TFMDD (TFMDD5)

TFMDD was held at the virtual meeting on 7 July 2020. The minutes of TFMDD5 is attached as [EANET/SAC 20/9/1/Annex 2](#).

(Major discussions; also see [Page 6 of EANET/SAC 20/9/1](#))

- It was pointed out that the Strategy Paper should follow the TOR of the Task Force. If there is no change of TOR, we should keep consistent with the titles of documents. “dry deposition” is a keyword for this Task Force.
- It was suggested that the deliverables of activities in the Strategy Paper be reviewed by the external group. The additional project-based budget would be applied to implement a part of the activities shown in the Strategy Paper.
- TFMDD agreed to propose the recommendation of the revision of the Guidelines to the 20th Session of Scientific Advisory Committee (SAC20)
- In the current Technical Manual on Dry Deposition Flux Estimation, the NC recommended to use the seasonal category of summer for Southeast Asian countries. The dry deposition estimation was based on four seasons in the current Technical Manual. The seasonal category is not suitable for the tropical region, which should be modified in the revised Technical Manual.

4

4

Strategy Paper on Future Direction of Monitoring for Dry Deposition of EANET (2021-2026)

EANET/SAC 20/9/1/Annex 3

- The Strategy Paper was drafted by the NC and the contents were discussed by the TFMDD5. The final draft of the Strategy Paper is submitted to the Twentieth Session of Scientific Advisory Committee (SAC20) for adoption.
- The Strategy Paper will serve as a guide for the Task Force and other related groups for planning and implementing future activities for more elaborated atmospheric monitoring and atmospheric deposition data including dry deposition flux for the assessment of the adverse effects.
- **The Strategy Paper includes 6 activities to be implemented** to achieve the objectives of the Strategy on Monitoring for Dry Deposition from 2021 to 2025.

5

5

Activities to be implemented from 2021 to 2025

Activity	2021	2022	2023	2024	2025
i-i) Review of the Technical Manual for Air Concentration Monitoring in East Asia	X	X			
i-ii) Consideration on feasibility of developed monitoring techniques	X	X	X	X	X
ii) Further develop and elaborate dry deposition flux estimation methodology	X	X			
iii) Enhancement of spatial coverage for dry deposition flux estimation	X	X	X	X	X
iv) Promotion of an ozone monitoring network for the review of its current status in East Asia	X	X	X	X	X
v) Promotion of a PM ₁₀ /PM _{2.5} monitoring network for the review of their current status in East Asia	X	X	X	X	X
vi) Further elaborate QA/QC for air concentration monitoring	X	X	X	X	X

6

6

Recommendations of the Task Force on MDD to SAC20

SAC20 is invited to consider the report on the activities of the report on the activities of the Task Force on Monitoring for Dry Deposition of the EANET by the Chair of the Task Force and the following decisions.

- To endorse the Strategy Paper on Future Direction of Monitoring for Dry Deposition of EANET (2021-2025). attached as [EANET/SAC 20/9/1/Annex 3](#).
- To approve the revision of the Guidelines for Acid Deposition Monitoring in East Asia and review the revised draft by the next Session of SAC.

7

7