

# **EANET Research Portal**

**– A gate for research activities on the EANET –**

**SAC21**

26-28 October 2021

Virtual Meeting

Network Center for the EANET  
Secretariat for the EANET


# Objectives and strategies

- According to the recommendation from the Scientific Advisory Committee at its 20th Session (SAC20), it was decided that the EANET Science Bulletin would not be published.
- Relevant contents, such as summary of science papers, would be uploaded to the EANET website. **To promote research activities in the EANET community and enhance use of the EANET data by scientific community globally, a new webpage is developed as the main menu under the EANET homepage with the following strategies.**
  - To introduce research activities conducted by the EANET community
  - To share scientific outputs from the EANET research activities
  - To demonstrate importance of the EANET data for scientific research activities
  - To provide opportunities of joint research activities with the EANET community

A gate to EANET's research activities

# EANET Research Portal

**Key word search box**



EANET researchers have been working collaboratively for 20 years to study mechanisms of acid deposition and its effects on ecosystems, resulting in various scientific publications. These aim at creating a common understanding of the state of acid deposition problems in East Asia, and to provide useful inputs for decision-making at the local, national, and regional levels.

The EANET Research Portal was created to promote research activities developed in the EANET community and to enhance the use of the EANET data by the scientific community globally. The main objectives of this page are to introduce research activities conducted by the EANET community, share scientific outputs from the EANET research activities, demonstrate the importance of the EANET data for scientific research activities, and provide opportunities for joint research activities with the EANET community.

# Latest Research News, Research Activities by the EANET Community

## Latest Research News **Update occasionally**

- (June, 2021 Updated) Joint Projects of Catchment Analysis Study in Thailand

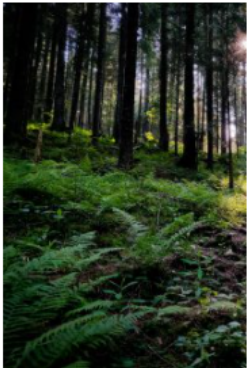
Link: <https://www.eanet.asia/news-eanet-joint-projects-with-participating-countries-catchment-analysis-thailand/>

- (May, 2021 Updated) Joint Projects of Development of an Emission Inventory Manual for Mongolia

Link: <https://www.eanet.asia/news-eanet-joint-projects-with-participating-countries-emission-inventory-manual-mongolia/>

## Research Activities by the EANET Community

### **Introduction on research activities**



#### **Review on air pollution and tree and forest decline in East Asia (2015-2020)**

The regional condition of forest decline and its relationship with air pollution have been compiled as the scientific review by the EANET Task Force members from Japan, China, Russia, and Malaysia based on scientific literature published in the respective countries.

The review work was implemented as one of the activities on Task Force on Soil and Vegetation Monitoring of the EANET. It was also supported by JSPS KAKENHI and the Russian Fund Fundamental Researches.

Links:

#### **Link to detail information**

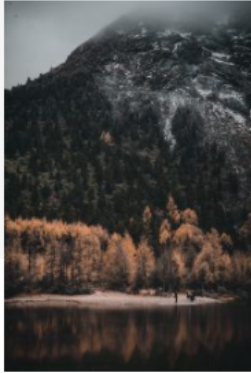
- [https://www.acap.asia/en/research-main/forest\\_decline/](https://www.acap.asia/en/research-main/forest_decline/)
- <https://www.sciencedirect.com/science/article/abs/pii/S0048969720338092?via%3Dihub>

- Research projects by the EANET bodies (e.g. Task Forces under SAC), participating countries, Network Center (NC) and/or EANET related communities may be shown here.
- **EANET participating countries may request to introduce their own research activities utilizing the EANET data and EANET monitoring scheme (Call for submission).**

# Reports of EANET Research Fellowship, EANET Science Bulletins

## Reports of EANET Research Fellowship

**Update occasionally not periodic publication**



### EANET Research Fellowship in 2019 - Improvement of atmospheric ammonia emissions combined with satellite observations

Miaomiao Cheng, Institute of Atmospheric Environment, Chinese Research Academy of Environmental Sciences, Beijing 100012, China

In this study, the NH<sub>3</sub> emissions inventories in China were improved using the atmospheric chemical transport model, satellite observations, and inverse modeling methodology. In terms of spatial distribution, according to the corrected emissions, NH<sub>3</sub> emissions were mainly seen in densely-populated areas such as the North China Plain, the Yangtze River Delta, the Pearl River Delta, Chengdu, and Chongqing, with the emissions per unit area exceeding 300 kg ha<sup>-1</sup> yr<sup>-1</sup>. As for annual changes, China showed an almost stable trend in NH<sub>3</sub> emissions from 2013 to 2016, and nationwide NH<sub>3</sub> emissions came in at about 10 million tons in each of these years.

[Download the Research Report](#)

**Outline of the peer reviewed fellowship report**

## EANET Science Bulletins

**Link to the previous EANET Science Bulletins**



- o EANET Science Bulletin Vol. 5 (June 2020)
- o EANET Science Bulletin Vol. 4 (October 2016)
- o EANET Science Bulletin Vol. 3 (September 2013)
- o EANET Science Bulletin Vol. 2 (January 2011)
- o EANET Science Bulletin Vol. 1 (November 2008)

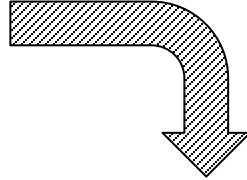
# List of Research Papers Related to EANET

## List of Research Papers Related to EANET

This list consists of the database of research articles using EANET data and/or mentioning EANET. The articles include peer-reviewed papers, books, data papers, working papers, project reports, etc. The list covers the period from today, since EANET's foundation. If you wish to inform us about any important paper using EANET data that is currently missing in the lists below, kindly [contact the Network Center](#) on this matter.

- Publications in 2021-
- Publications in 2016-2020
- Publications in 2011-2015
- Publications in 2006-2010
- Publications in 2001-2005

**Link to list**



The list is developed and updated based on the research information collected by the NC. However, some important papers using the EANET data may be missed in the list. **The NC welcomes notifications on the missing papers from the authors and countries.**

# List of Research Papers Related to EANET (2016-2020)

1. **Zhou De-Ping et al.**, Analysis on Change of Precipitation pH and Chemical Characteristics of Acid Rain in Liaoning Province (2007-2018). *Rev. Chim.*, 71 (5), 491-505, 2020.
2. **Zuhair Kattan**, Factors affecting the chemical composition of precipitation in Syria, *Environmental Science and Pollution Research*, volume 27, 28408-28428, 2020.
3. **Mireadili Kuerban et al.**, Spatio-temporal patterns of air pollution in China from 2015 to 2018 and implications for health risks. *Environmental Pollution*, Volume 258, 113659, March 2020. <https://doi.org/10.1016/j.envpol.2019.113659>
4. **Yanwei Lu et al.**, Corrigendum to "Chloride tracer of the loess unsaturated zone under sub-humid region: A potential proxy recording high-resolution hydroclimate". *Sci. Total Environ.* 700, 134465, 2020.