

Atmospheric Science Research Division (ASRD)

2016.4.1 ~ 2021.3.31

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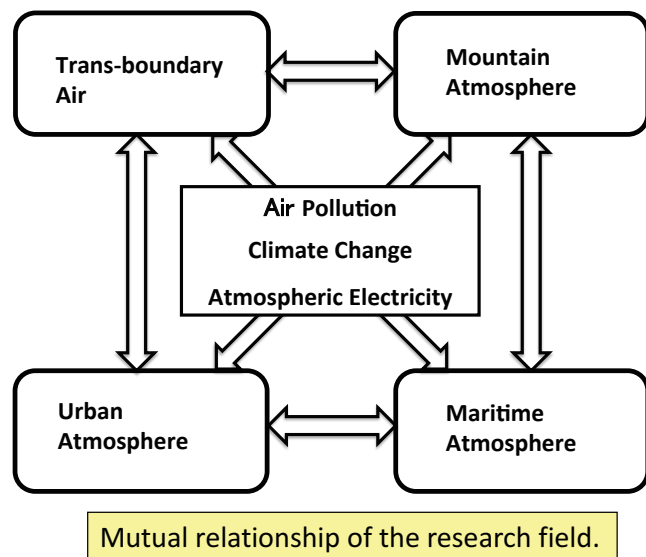
Guest Researcher 21 persons

Objectives

To clarify the effect of aerosols on air pollution and climate change, the ASRD will observe atmospheric pollutants in the urban, mountain, and maritime atmospheres.

Research subject

- High concentration cause of PM2.5 in the Kanto district
- Effects of atmospheric aerosols on climate change
- Process of new particle formation and cloud formation measured at the Tokyo sky tree tower
- Process of new particle formation and cloud formation at the summit of Mt. Fuji
- Mutual relationship of maritime atmosphere and the urban atmosphere

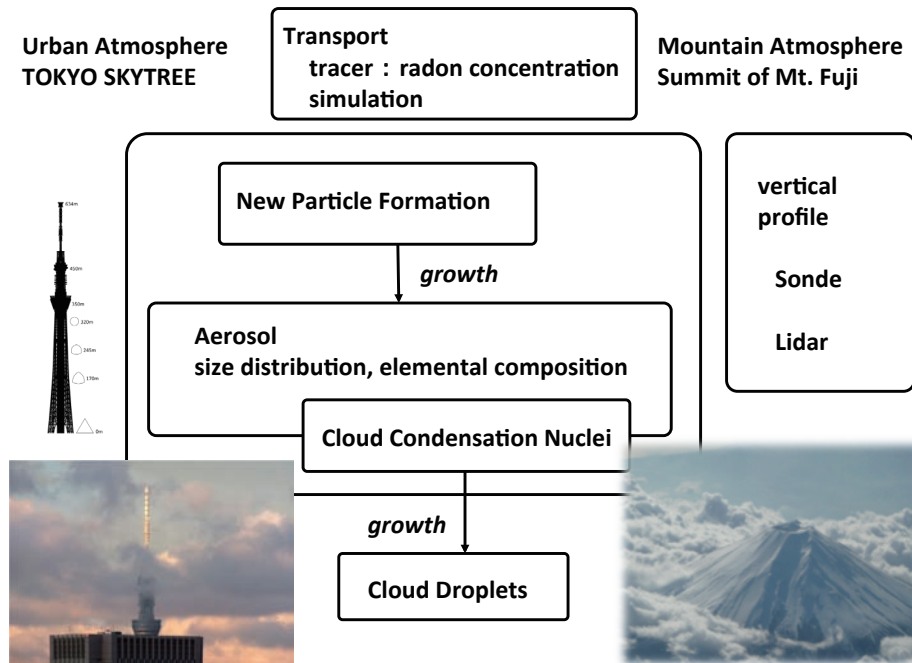


Future Development Goals

The ASRD will activate the collaborated research and make the network of Japanese atmosphere observatory.

Highlight① Aerosol Effects on Climate Change

Study on the process of new particle formation and cloud formation in the urban and maritime atmosphere



Highlight② Aerosol Effects on Human Health

Factors Controlling Enhancement of Urban PM2.5 and Development of a Supporting Method for Administrative Monitoring Data

Environment Research and Technology Development Fund, Ministry of the Environment (2016.4.1-2019.3.31)

(S1) "Study on the relation of the gas-like and particle-like ammonia and nitric acid"

Kazuo Osada (PI) (Nagoya University)

(S2) "Study on the urban PM2.5 cause in the Nobi Plain"

Makiko Yamagami (Nagoya City Institute For Environmental Sciences)

(S3) "Study on the urban PM2.5 cause in the Kanto Plain"

Shinji Saito (Tokyo Metropolitan Research Institute for Environmental Protection)

(S4) "Impact assessment of hygroscopic particles to be supplied to the PM2.5 mass concentration"

Kazuhiko Miura (Tokyo University of Science)