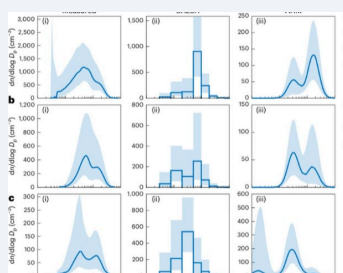




Latest publications

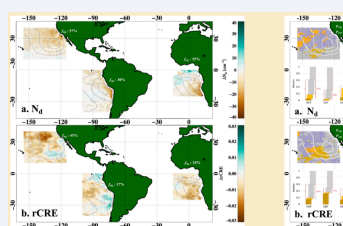


High sensitivity of cloud formation to aerosol changes

Virtanen, A., Joutsensaari, J., Kokkola, H. et al.

Nat. Geosci. (2025).

<https://doi.org/10.1038/s41561-025-01662-y>

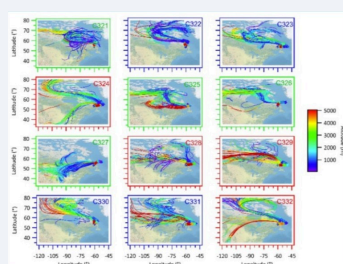


Radiative forcing from the 2020 shipping fuel regulation is large but hard to detect

Zhang, J., et al.

Commun Earth Environ 6, 18 (2025).

<https://doi.org/10.1038/s43247-024-01911-9>

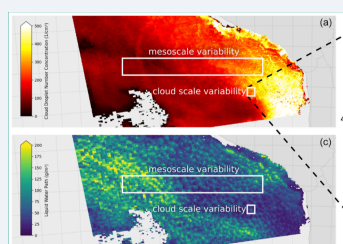


Transport of continental particulate over the Labrador Sea and entrainment are important pathways for glaciation of remote marine clouds

Coe, H., et al.

Faraday Discussions

<https://doi.org/10.1039/D5FD00005J>



Model analysis of biases in the satellite-diagnosed aerosol effect on the cloud liquid water path

Kokkola, H., et al.

Atmos. Chem. Phys., 25, 1533–1543

<https://doi.org/10.5194/acp-25-1533-2025>

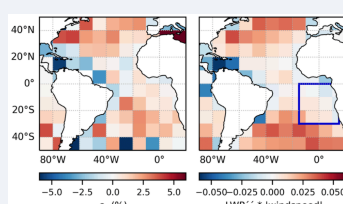


Terrestrial and Marine Sources of Ice Nucleating Particles in the Eurasian Arctic

G. Li, et al.

Faraday Discuss. (2024)

<https://doi.org/10.1039/D4FD00160E>

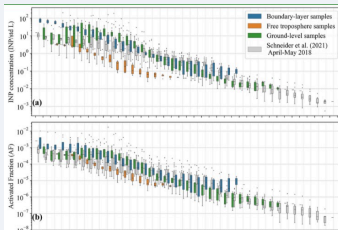


Weak liquid water path response in ship tracks

Tippett, A., et al.

Atmos. Chem. Phys., 24, 13269–13283 (2024)

<https://doi.org/10.5194/acp-24-13269-2024>



Vertical distribution of ice nucleating particles over the boreal forest of Hyytiälä, Finland

Brasseur, Z., et al

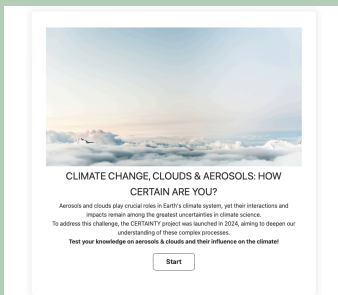
Atmos. Chem. Phys., 24, 11305–11332 (2024)

<https://doi.org/10.5194/acp-24-11305-2024>

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Climate Change, Clouds & Aerosols Quiz



We created this quiz to help our website visitors learn more about aerosols, clouds, and their role in Earth's climate - while also introducing the CERTAINTY project.

[Quiz](#)

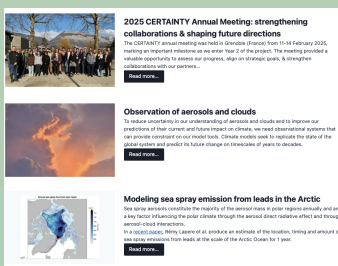
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Visit the [news section](#) of our website to stay updated and learn more about our project: [Modeling sea spray emission from leads in the Arctic](#), [Observation of aerosols and clouds](#), etc.

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Annual meeting



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The CERTAINTY annual meeting was held in Grenoble (France) from 11 to 14 February 2025, marking an important milestone as we enter Year 2 of the project.

A big thank you to all participants for making this meeting so engaging and productive! Stay connected for more updates!

ERCA



[The European Research Course on the Atmosphere \(ERCA\)](#) took place in Grenoble, France, from January 19 to 31, 2025, bringing together 27 students.

CERTAINTY researchers delivered inspiring lectures to ERCA students, covering topics like aerosols and clouds, atmospheric dynamics, weather systems, remote sensing, and statistical analysis.



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