

# Coupled Earth-Atmosphere processes in a changing climate: past, present, future



Morning session 9 : 30~12 : 00



**Chris Conway**  
(Geological  
Survey of Japan)



**Kyoko Kataoka**  
(Niigata University)



**Thomas Aubry**  
(University of  
Oxford, UK)

Afternoon session 13 : 30~16 : 00



**Tanmay Agrawal**  
(University of  
Oxford, UK)



**Masakazu Fujii**  
(NIPR, Japan)



**Andrea Dittus**  
(University of  
Reading, UK)

This colloquium unites leading international experts and researchers from Niigata University to showcase and explore the latest discoveries on Earth-atmosphere interactions—an area of growing importance in a changing climate.



 [jfarquharson@gs.niigata-u.ac.jp](mailto:jfarquharson@gs.niigata-u.ac.jp)

**Jamie Farquharson**  
(Niigata University)



17 March 2026  
8年3月17日



09:30-16:00



Niigata University  
Sakeology Center  
日本酒学センター



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All presentations will  
be in English

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主催  
研究統括機構



# Coupled Earth-Atmosphere processes in a changing climate: past, present, future



## International colloquium-program

Date : March 17 2026

Venue : Sakeology Center, Niigata University

### Morning session

09:30–09:45: Arrival and coffee

09:45–10:00: Introduction

10:00–10:30: Chris Conway (Geological Survey of Japan)

“The response of magma systems to deglaciation at arc stratovolcanoes”

10:30–11:00: Kyoko S. Kataoka (Niigata University)

“Characteristics of volcanic mudflows as a function of triggering mechanism at a seasonally snow-clad volcano: the 2014 phreatic eruption of Ontake Volcano, Japan”

11:00–11:30: Jamie Farquharson (Niigata University)

“How will climate change–induced evolution of extreme rainfall affect volcanic hazards?”

11:30–12:00: Thomas Aubry (University of Oxford, UK)

“Volcanic impacts on climate in a warming world”

### Afternoon session

13:30–14:00: Tanmay Agrawal (University of Oxford, UK)

“Interaction of plane buoyant jets with a lateral density stratification”

14:00–14:30: Masakazu Fujii (NIPR, Japan)

“Observation of Mid-Ocean Ridge Oscillation: Assessment of Response to Glacial–Interglacial Forcing”

14:30–14:45: Coffee break

14:45–15:15: Andrea Dittus (University of Reading, UK)

“Storylines of regional net-zero futures emerging from two leading earth system models”

15:15–15:45: Open discussion

15:45–16:00: Closing remarks



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