For inquiries about the UIUC Atmospheric Sciences briefing, contact Patti Arthur.
(patti67@illinois.edu)

This briefing is for activities that occurred during the November 2023 period.

**Notes from the Head**

Greetings and Happy New Year, Atmospheric Sciences! I hope you were able to recharge and enjoy time with loved ones. We’ve got a busy start to the semester coming up, and I want to mention a few important items:

- **Climate position search**: The search committee for this position has been working hard setting up our 5 faculty interviews for this position. Itineraries are being finalized and will be distributed to the candidates shortly. Look for an email from Patti to gather feedback about the candidates, as we’ve done in years past.
AMS Annual Meeting in Baltimore, MD: The Department will have a table at the Undergrad Career Fair on Sunday afternoon, and don’t forget about the Alumni and Friends Reception on Tuesday, January 30, 2024, from 7 - 8 pm at the Hyatt Regency Baltimore Inner Harbor, Frederik Room.

Department Name Change: The Department’s name change to the Department of Climate, Meteorology & Atmospheric Sciences will be considered by the Board of Trustees on the afternoon of January 18. Assuming that the name change is approved, we will begin rolling out the name change on social media, our website, and other venues. After final approval, we will provide an updated logo and letterhead, updating signage and banners, and other items such as business cards. We will also be doing a merchandise order for department fleece jackets, polo shirts, hats, and mugs. If there are other items that need to be updated, please review and add them to this working “punch list” document containing action items for the name change.

Grad Recruiting: All of the Fall 2024 applications are in and should be populated in GradApps. As of now, we have 94 applicants.

Please start identifying candidates and let Ryan know if you are interested in making an offer to any students.

- We would like to hold a grad recruiting event on campus on February 23 or March 1. If you have any conflict with either of those dates, please let me know.
- Keep students in mind for Grad College Fellowships, who have upcoming round 2 deadlines. Also, nominate students you’ve offered to for our internal fellowships, see my email from January 8.

I wish everyone a great and productive semester!

Steve Nesbitt
Professor and Head

Publications


Dominguez, F. et al., Advancing South American Water and Climate Science through Multidecadal Convection-Permitting Modeling. 2024, Bulletin of the American Meteorological


Roy, P., R. M. Rauber, L. Di Girolamo, 2023: A closer look at the evolution of supercooled cloud droplet temperature and lifetime in different environmental conditions with implication for ice nucleation in the evaporating regions of cloud., J. Atmos. Sci, 80, 2481-2501. doi: https://doi.org/10.1175/JAS-D-22-0239.1  


Presentations


Gopalakrishnan, D., JT Allen, RJ Trapp, and E. Robinson, Future changes in severe thunderstorm environments over the United States from CMIP6 models, AGU Fall Meeting, San Francisco, CA, December 2023


Liu, Y., JH Curtis, ML Dawson, DN Higgins, MV Johnston, N. Riemer, Modeling the seed-dependent particle growth via multiphase reactions with the particle-resolved model PartMC-CAMP Conference: International Aerosol Modeling Algorithms Conference (IAMA) Location: UC Davis Conference Center, Davis, CA Date: December 6-8, 2023

Loveridge, J., and L. Di Girolamo, 2023: Accounting for systematic errors in satellite retrievals in the assessment of variations of cloud properties across the stratocumulus-to-cumulus


Xu, X., JH Curtis, and N. Riener, Investigating impact of surfactants on cloud condensation nuclei activity with a particle-resolved aerosol model International Aerosol Modeling Algorithms Conference, Davis CA, Dec 6-8, 2023
Activities

Professor Nicole Riemer attended the International Aerosol Modeling Algorithms Conference UC Davis, December 6 - 8, 2023, and served on the Technical Progam Committee.

Professor Larry Di Girolamo participated in the AGU Fall Meeting in San Francisco, CA.

Professor Larry Di Girolamo participated in the MISR Data User Symposium, Pasadena, CA.

Professor Larry Di Girolamo participated in the MISR Science Team Executive Meeting, Pasadena, CA.

Professor Kelvin Droegemeier represented NSF and gave a presentation on a panel titled “Role of Institutional Leadership in Public Policy” at the Public Responsibility in Medicine and Research Annual Meeting in Washington, DC.

Professor Kelvin Droegemeier spoke and awarded the first place prize at the “Reimagine Our Future” ceremony at UIUC.

Professor Atul Jain was a session chair, Fall 2023 American Geophysical Union (AGU) Meeting, session title “Advances in Modeling the Effects on Land Surfaces Characteristics due to Land Use/Land Cover Changes”, San Francisco, CA., Dec 11-15, 2023.

Professor Atul Jain piece for the Illinois News Bureau, "Why are global carbon emissions starting to increase again?" December 5, 2023, https://blogs.illinois.edu/view/6231/1480677099

Announcements

Professor Atul Jain was awarded the AGU Fellow at an honors ceremony at the AGU Fall Meeting, 2023, San Francisco, CA, Dec 11-15, 2023.
Seminar Schedule

**Spring 2024:**

2/6: Graduate Student, David Lafferty, UIUC

2/13: Graduate Students Matthew Graber and Kyle Killion, UIUC

2/22: **Special Seminar:** Rachel Meidl, Rice University

2/24: Graduate Students Gabrielle Christo and Zachary D'Aquino, UIUC

2/27: Graduate Students Samuel Frederick and Joseph Nied, UIUC

3/5: Graduate Student, Alex Adams, UIUC

3/16: Alexandra Anderson-Frey *Student Choice*

3/26: Graduate Student, Michael Sessa, UIUC

4/2: Graduate Students Katie Straus and David Roegner, UIUC

4/9: Graduate Students McKenzie Peters and Maile Sasaki, UIUC

4/11: **Special Seminar** - Graduate Students Wenhan Tang and John Lundstrom, UIUC

4/16: Grad Student, Carolina Bieri, UIUC

4/18: **Special Seminar** - Graduate Student, Chu-Chun Chen, UIUC

4/23: Clara Deser-Ogura Lecture
Birthdays

Happy January Birthday!

Faculty:
Ryan Sriver
Don Wuebbles

Graduate Students:
Mitchell Lazarow
Sean Matus
Lina Rivelli Zea
Mingshi Yang

Contact Us At

PHONE: 217-333-2046

EMAIL: atmos-sci@mx.uillinois.edu

WEBPAGE: www.atmos.illinois.edu

MAILING ADDRESS:
Department of Atmospheric Sciences, 3070 Natural History Building, 1301 West Green St. MC-104, Urbana, IL 61801