

**Jeffrey B. Weiss**  
**Professor**  
**Department of Atmospheric and Oceanic Sciences**  
**University of Colorado, Boulder**

**Professional Preparation**

Undergraduate	University of Illinois, Urbana	Physics	BS, 1980
Graduate	University of California, Berkeley	Physics	MA, 1982 PhD, 1988
Postdoctoral	National Center for Atmospheric Research	ASP Fellow	1988 – 1990

**Appointments**

2017 –	Chair, Department of Atmospheric and Oceanic Sciences, University of Colorado, Boulder.
2017 –	Professor, Department of Atmospheric and Oceanic Sciences, University of Colorado, Boulder.
2000– 20017	Associate Professor, Department/Program in Atmospheric and Oceanic Sciences, University of Colorado, Boulder.
2002– 2010	Associate Chair, Department/Program in Atmospheric and Oceanic Sciences, University of Colorado, Boulder.
1997–2000	Assistant Professor, Department/Program in Atmospheric and Oceanic Sciences, University of Colorado, Boulder.
1993–1997	Assistant Professor, Program in Atmospheric and Oceanic Sciences within the Department of Astrophysical, Planetary, and Atmospheric Sciences, University of Colorado, Boulder.
1993– 1993	Affiliate Faculty, Department of Applied Mathematics, University of Colorado, Boulder. Visiting Scientist, National Center for Atmospheric Research.
1990–1992	Philip D. Thompson Visiting Scientist, National Center for Atmospheric Research.

**Selected Publications**

Vineel Yettella, Jeffrey B Weiss, Jennifer E Kay, Angeline G Pendergrass, “An ensemble covariance framework for quantifying forced climate variability and its time of emergence,” *Journal of Climate*, <https://doi.org/10.1175/JCLI-D-17-0719.1>, 2018.

Jeffrey B. Weiss and Ian Grooms, “Assimilation of ocean sea-surface height observations of mesoscale eddies,” *Chaos*, **27**, 126803 (2017); <https://doi.org/10.1063/1.4986088>.

Lei Zhang, Kristopher B. Karnauskas, Jeffrey B. Weiss, Lorenzo M. Polvani, “Observational evidence of the downstream impact on tropical rainfall from stratospheric Kelvin waves,” *Climate Dynamics*, <https://doi.org/10.1007/s00382-017-3844-1>, 2017.

R K P Zia, Jeffrey B Weiss, Dibyendu Mandal, and Baylor Fox-Kemper, “Manifest and Subtle Cyclic Behavior in Nonequilibrium Steady States,” *Journal of Physics: Conference Series*, **750** 012003 (2016).

David Nieves, Ian Grooms, Keith Julien, and Jeffrey B. Weiss, “Investigations of non-hydrostatic, stably stratified and rapidly rotating flows,” *Journal of Fluid Mechanics*, **801**, 430-458, (2016).

**Synergistic Activities**

- Co-Organizer, Max-Planck Institute for the Physics of Complex Systems Workshop: Climate Fluctuations and Non-equilibrium Statistical Mechanics: An Interdisciplinary Dialogue, 2017. in summer 2017.
- Advisory Board, Dynamics and Statistics of the Climate System, Oxford University Press, 2015-2016.
- Principal Lecturer at the Geophysical Fluid Dynamics Summer Program at the Woods Hole Oceanographic Institute, 2012.

- Co-Director NCAR/IMAGE 2008 Theme-of-Year (TOY) Summer School on Geophysical Turbulent Phenomena Workshop on Theory and Modeling and Summer School on Geophysical Turbulence.
- Supervised, with Prof. Keith Julien, joint Atmosphere-Ocean Sciences/Applied Mathematics Geophysical Fluid Dynamics research seminar training students and postdocs from both departments in interdisciplinary research.
- Co-Organizer of 2004 Summer School on Fundamental Problems in Geophysical and Environmental Fluid Mechanics, Course XXII, Transport in Geophysical Flows: Ten Years After, Saint-Oyen, Italy.
- K-12 classroom teaching, field classes, and tutoring, in environmental science, meteorology, physics, and mathematics.