

**Title:** Extreme events, hurricanes, and climate change

**Speaker:** Dr. Suzana J. Camargo, Lamont-Doherty Earth Observatory, Columbia University

**Abstract:** In the last years, the social and economical impact of extreme weather events on society and economy has been increasing significantly and receiving lots of attention by the media, social media and public in general. In this talk I will give an overview of the current state of the knowledge on the relationship of extreme weather and climate events and anthropogenic climate change. I will give a general overview on various types of extreme events, but focus most of my talk on hurricanes and typhoons, also called tropical cyclones. I will discuss the current trends on hurricane activity, the attribution of specific hurricane events to climate change, as well as the predictions for the end of the century.

**Biography:** Suzana J. Camargo is the Marie Tharp Lamont Research Professor at the Lamont-Doherty Earth Observatory at Columbia University. She has been at the Lamont campus since 1999, working first at the International Research Institute for Climate and Society before becoming part of the Ocean and Climate Physics Division in 2007. Dr. Camargo received her B.Sc. and M.Sc. in physics from the University of São Paulo, Brazil, and Ph.D. in physics from the Technical University of Munich in Germany. She was a post-doctoral research scientist at the Max-Planck Institute for Plasma Physics and then an associate professor at the São Paulo State University before joining the Lamont-Doherty Earth Observatory. Dr. Camargo has published extensively in peer-reviewed journals on various aspects of climate, in particular the relationship of tropical cyclones and climate in various time-scales. She holds a Lecturer appointment in the Master of Science in Sustainability Science program and is an Adjunct Professor in the Department of Earth of Environmental Sciences at Columbia University. She is an editor of Geophysical Research Letters from American Geophysical Union and a member of the World Meteorological Organization Expert Team on Climate Change Impacts on Tropical Cyclones.