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Board on Atmospheric Sciences and Climate

Spring Meeting 2022

Hybrid | Keck Center (500 5th St NW Washington DC 20001) | Zoom

FINAL OPEN SESSION AGENDA

Wednesday, June 1st
Frontiers of Extreme Event Attribution

The Academies previously conducted a consensus study, [Attribution of Extreme Weather Events in the Context of Climate Change \(2016\)](#), which examined the current state of science of extreme weather attribution, and identified ways to move the science forward to improve attribution capabilities. In this session, speakers will consider the scientific advances that have been made since the previous study, emerging approaches and methodologies, and extreme weather attribution in the context of decision-support.

1:00 PM ET **Session Overview**

Marshall Shepherd, University of Georgia
Peter Frumhoff, Harvard University

1:10 PM **Overview of Frontiers of Extreme Event Attribution**

High level overview of international probabilistic event attribution, including equity and justice dimensions.

Friederike Otto, Imperial College, London

1:30 PM **Science advances since the 2016 Academies report and remaining research gaps**

Through the lens of three examples of extreme events, panelists will discuss the state of the science understanding of attributing these extreme weather events in the context of climate change, significant advances in recent years, and remaining gaps in our ability to do extreme event attribution.

- **Victor Gensini**, Northern Illinois University
- **Janin Guzman-Morales**, University of California, Santa Barbara
- **Tom Knutson**, NOAA GFDL

2:30 PM Break

3:00 PM **Emerging methods and overcoming data biases**

- **Ted Shepherd**, University of Reading
- **Philippe Naveau**, Laboratoire des Sciences du Climat et l'Environnement

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3:30 PM

Applications to law, society, and decision support

- **Michael Wehner**, Lawrence Berkeley Laboratory
- **Michael Burger**, Columbia University Law School
- **Shannon Osaka**, Grist

4:15 PM

Discussion

4:45 PM

Adjourn