High Level Agenda: Annual ESSM Community Workshop
2019 Theme: Climate Research to Enhance Resilience to Extreme Heat
November 18-19, 2019
DoubleTree Hilton, Silver Spring, MD

**Workshop Objective:** Engage researchers, users, and stakeholders inside and outside NOAA to identify needs and opportunities for the Climate Program Office, Earth System Science and Modeling Programs (CPO/ESSM) to support climate research to enhance resilience to extreme heat.

**Workshop expected outcome:** A workshop report with key ideas from participants to inform CPO/ESSM future research directions and funding priorities.

**Nov. 18 Morning Session:** Keynote presentations on critical problems and required climate information for decision makers

**Nov. 18 Afternoon Session:** Topical Breakouts writing sessions and plenary discussions to inform workshop report
- What are the most critical problems for decision makers when it comes to the impacts of extreme heat on air quality, water resources, environmental quality, agriculture, energy, transportation, public health, and coastal/ocean resources, etc.?
- What climate information and Earth system modeling capabilities are required for addressing those problems?

**Nov. 19 Morning Session:** Keynote presentations on state of the art science and current capabilities
- Observing and monitoring climate variability and changes
- Understanding mechanisms and predictability
- Modeling and prediction capabilities
- Science applications to inform decisions

**Nov. 19 Afternoon Session:** Topical Breakouts group discussions/writing sessions and plenary discussions to inform workshop report
- What capabilities already exist?
- What are the gaps and opportunities for further research and engagement?
- What can CPO/ESSM programs do?

**Nov. 20 Morning:** ESSM Council Meeting (closed session)