Extreme heat events: processes, impacts and adaptation

Conveners: Tom Matthews, Ana Casanueva, and Martha Marie Vogel

Format of session

The presentations have been separated in to three blocks, as indicted below. The blocks will each run for 30 minutes, with five minutes between each one to enable a smooth transition.

The moderators will ensure each display item is given some attention by prompting the presenting author to introduce their work at an appropriate point, after which a discussion of typically 5-10 mins will follow. The author's introduction should include one or two, **succinct** highlights of the study. Note that the order of the items below is the order in which the moderators will ask the authors for their introduction.

Block 1: Contemporary processes and forecasting (10:50 – 11:20)

[Moderator: Tom Matthews]

The effect of soil-moisture on human heat stress during hot spells
Hendrik Wouters et al.

Recent changes in hot and humid extreme over China
Nicolas Freychet et al.

Identification of Hotspots for Heatwaves using Big Data
Sang-Wook Kim et al.

Subseasonal prediction of average vs extreme European land temperatures in S2S hindcasts
Ole Wulff and Daniela Domeisen

Block 2: Processes under future scenarios of warming (11:25 – 11:55)

[Moderator: Ana Casanueva]

Hotspots of Extreme Heat under Global Warming
Laura Suarez-Gutierrez et al.

Representing the Urban Heat Island Effect in Future Climates
Annkatrin Burgstall, Ana Casanueva, Elke Hertig, Erich Fischer, Reto Knutti, and Sven Kotlarski

Very rare heat extremes: how anomalous could they get?
Claudia Gessner et al

Heat Events in the Indian Subcontinent under a warming climate scenario: Detection and its Drivers
Kapoor Ritika et al.

Block 3: Impacts (12:00 – 12:30)

[Moderator: Martha Marie Vogel]

Heat-wave health impacts forecasting model in Korea: development and evaluation
Jongchul Park and Yeora Chae

Heat stress indicators in CMIP6: Estimating future trends and exceedances of critical physiological […]
Clemens Schwingshackl et al.

Loss of work productivity in a warming world: Differences between developed and developing countries

Shuang Yu et al.