



The Impact of Extreme Events Thursday 25 April, 09:30 – 17:00 Arts Two Lecture Theatre, Queen Mary University of London & Online

09:30 - 10:00	Registration with tea and coffee
10:00 - 10:15	Welcome and introductions
Session 1	
10:15 - 10:45	David Renault, University of Rennes (online) The effects of climate change on native and non-native insects.
10:45 - 11:00	Hester Weaving, University of Bristol How do disease vectors respond to extreme heat? The use of thermal limits to predict climate change responses in the viviparous tsetse fly.
11:00 – 11:15	Mirjam Schilling, Animal and Plant Health Agency (APHA) Establishing a laboratory model to understand overwintering of flaviviruses in temperate European mosquitoes.
11:15 – 11:45	Roger Morris Detecting the effects of extreme events in opportunistic data.
11:45 – 12:00	Aaron Bhambra, University of Birmingham The Range Expansion of the Noble Jewel Wasp, Hedychrum nobile: A new colonist to Britain.
12:00 - 12:15	Sean Rands, University of Bristol The behavioural responses of bumblebees to simulated rain.
12:15 - 13:15	Lunch with poster session
Session 2	
13:15 - 13:45	Sinead English, University of Bristol Plasticity to the rescue: Can plasticity help insects cope with environmental extremes?
13:45 - 14:00	Freya Spencer, Arctech Innovation The impact of adverse weather events associated with climate change on hygiene and pest-borne diseases transmitted by flies and cockroaches.

14:00 - 14:15	Liam Crowley, University of Oxford (online) Effects of experimental drought and elevated rainfall on grassland arthropods and plant-pollinator interactions.
14:15 - 14:30	Dipsikha Bora, Dibrugarh University (online) Climate change and its possible effect on dengue incidence.
14:30 - 14:45	Fiona Plenderleith, Forest Research (online) Modelling the population dynamics and potential for dispersal of <i>lps typographus</i> under variable climatic conditions.
14:45 - 15:15	Refreshment break
Session 3	
15:15 – 15:45	Deborah Hemming, Met Office Hadley Centre & Birmingham University
	Use of climate science to support UK biosecurity.
15:45 – 16:00	Nick Johnson, Animal and Plant Health Agency (APHA) Climate drivers for mosquito-borne virus emergence in northern Europe.
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	Climate drivers for mosquito-borne virus emergence in northern Europe. Matthew Hayes, Cambridge University Heatwave predicts shady future for insects: impacts of an extreme weather event on a chalk grassland in Bedfordshire,
16:00 – 16:15	Climate drivers for mosquito-borne virus emergence in northern Europe. Matthew Hayes, Cambridge University Heatwave predicts shady future for insects: impacts of an extreme weather event on a chalk grassland in Bedfordshire, UK. Andrew Jones, Oxford Brookes University Monitoring insecticide resistance to inform optimal control of

Poster Presentations

P1: Colin Johnston, UKHSA

First detection of *Aedes aegypti* eggs in the UK; a summary of UKHSA mosquito surveillance 2020 to 2023.

P2: Charlotte Linthout, Wageningen University and Research

USUV vertical transmission and overwintering in *Culex pipiens* mosquitoes contributes to annual re-emergence.

P3: Emily Wenban-Smith, University of Cambridge

Quantifying historical impacts of extreme temperature events on British butterflies.

P4: Sofia Samoylova, University of Bristol

Live-bearing cockroaches as a model system to understand heat impacts on pregnancy.

P5: Denise Wawman, University of Oxford

Mapping the UK's flat flies (Diptera: Hippoboscidae).

Convenors

- Scott Hayward, University of Birmingham (Climate Change SIG Convener)
- Marion England, Pirbright Institute (Medical and Veterinary Entomology SIG Convener)
- Arran Folly, Animal and Plant Health Agency (Medical and Veterinary Entomology SIG deputy-Convener)