

## EGU26 media tip sheet: Heat, conflict, climate change and food: Nutrition and health

Food security is a major concern, particularly in the face of conflicts and climate change. So, too, is the link between negative health outcomes and extreme heat. How can the impact be quantified and potentially mitigated?

### Predicting Nutrition Severity in Fragile or Conflicted Areas

*Regions affected by conflict experience overlapping hardships, such as displacement and escalating climate extremes. Such shocks deepen food insecurity. The European Space Agency's European Resilience from Space programme, with UNICEF, is developing a near-real-time spatially detailed early warning system to monitor short-term malnutrition risk.*

**Monday 04 May 16:15–18:00 CEST; Hall X3, X3.110 [EGU26-5700](#)**

Session ITS2.7/NH13.3: [Climate hazards and socioeconomic inequality across scales](#) (poster)

### The Link Between Preterm Births and Climate Change

*As temperatures increase, vulnerable populations like newborns and pregnant people, may be exposed to extreme heat. Extreme heat can trigger preterm birth, which is associated with adverse health outcomes. This study estimates the global contribution of human-induced warming to preterm birth incidence.*

**Wednesday 06 May 11:40–11:50 CEST; Room -2.62 [EGU26-20111](#)**

Session ITS2.4/CL0.18: [Climate Change and Global Health Risks from Interdisciplinary Perspectives](#) (oral)

### Heat Mortality Inferred from Machine Learning

*Large-scale mortality datasets are often reported weekly. Heat-related mortality may operate at shorter timescales, and so may be underestimated. This work proposes a machine-learning framework to predict daily deaths from weekly datasets, validated using a French 2019 daily mortality dataset. By linking daily climate exposure to weekly mortality records, existing datasets could be used to assess lethal heat risk.*

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**Thursday 07 May 08:30–10:15 CEST; Hall X5, X5.243 [EGU26-7881](#)**

Session ITS4.19/CL0.10: [Lethal Heat: Extreme Heat-Humidity Events and Human Health Risks](#) (poster)

### **Mapping and Mitigating Rural Heat Island Effects on Farmworkers**

*Farmworkers are vulnerable to heat. In this work, researchers describe a way to map, measure, anticipate and mitigate heat stress in California's Imperial Valley. Among their findings: air, land and wet-bulb temperature have all increased over 20 years, and farmworkers experience heat exposure with weak government oversight.*

**Thursday 07 May 08:30–10:15 CEST; Hall X5, X5.267 [EGU26-13367](#)**

Session ITS4.18/CL0.17: [Population health in a changing climate: past and ongoing impacts, adaptation and future risks](#) (poster)

### **Climate-Induced Crop Loss Will Take Financial Toll**

*What are the financial consequences of climate-driven crop loss? This work quantifies economic damages from heat and drought-related crop losses in maize, wheat and soybean. The authors show that global annual losses could quadruple between 2019 and 2070 under a high-emissions scenario.*

**Thursday 07 May 08:55–08:57 CEST; PICO spot 2, PICO2.11 [EGU26-8148](#)**

Session BG3.22: [Modeling agricultural systems under global change \(PICO\)](#)

### **Should you Consume Natural Fining Agents?**

*Natural materials like bentonite (clay), sepiolite, and gelatin are used for some food processing purposes, but are they safe? In fact, these agents tend to improve the safety of juices and milk, according to a new study. However, clay dietary supplements in pill-form may contain arsenic, posing a risk to health.*

**Thursday 07 May 16:15–18:00 CEST; Hall X2, X2.39 [EGU26-2103](#)**

Session GMPV2.1: [Solving geoscience problems using mineralogy and mineral's inclusions](#) (poster)

### **Chokepoints in Food's Global Supply Chain**

*The global supply chains for foods like wheat, rice, soy, and maize rely on a few chokepoints, most within the maritime network. This study analyzes short-term risks to global and regional food security arising from chokepoint disruptions. The authors quantify how many people are affected and additional cost per crop.*

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**Friday 08 May 15:05–15:15 CEST; Room 2.24 [EGU26-18448](#)**

Session ITS2.8/NH13.12: [Bridging natural and social sciences to study societal responses to extreme weather events](#) (oral)

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