Weather and Climate Risk Assessments of Population Displacements by Extreme Weather Events

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3:30 p.m. 🕐

Zoom Link: Here
Meeting ID: 992 4969 9833
Passcode: 983837

What are the human impacts from an extreme weather event such as river floods or tropical cyclones? What is the statistical risk from climate change to your region, country or planet? How do we identify the vulnerable people and find the most effective adaptation measures?

The python-based open-source CLIMADA platform (CLIMate ADAptation) can support these analyses. It is a globally consistent, fully probabilistic risk assessment tool, designed for both academics and decision-makers that used in climate adaptation projects, impact forecasting and financial planning.

Population displacements create hardships, particularly for socio-economically vulnerable groups, therefore assisting displaced people is important of any humanitarian response to disasters. Among all weather-related disasters, river flooding is responsible for a large part of population displacement. In our recent project, we show that both climate and population change are projected to lead to an increase of relative global river flood displacement risk by roughly 350% by the end of the century. Detailed methodology and results will be discussed. The session will also include further application of the tool, and the on-going project on early-tropical cyclones displacement warning system.

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