WCRP SAFE LANDING CLIMATES

Avoiding Extreme Climate Risk

We invite scientific contributions relevant to the new Lighthouse activity which explores the routes to climate-safe landing spaces for human and natural systems. We solicit presentations focusing on limits to adaptation; metrics for dangerous climate change; and climate-related global tail risks, or high-impact events that could have significant consequences for humanity but are currently uncertain or poorly modelled. Examples include triggering of carbon release; ice shelf/sheet collapse and sea level rise; regime shift of ocean or atmosphere circulation and clouds; multiplicative effect of compound hazards; biome (e.g. Amazon) collapse; "Fireball Earth;" and dangerous extremes that exceed our ability to adapt. We are also interested in climate and carbon cycle feedbacks in the context of negative emissions and the reversibility of the anthropogenic perturbation, and in changes that threaten large scale water availability or habitability of coasts. This session focus is on occurrences or events that have global-scale consequences.

https://agu.confex.com/agu/fm21/prelim.cgi/Session/124533

AGU FALL MEETING

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