

One Two Three More: Challenges to Describing a Warmer World

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Abstract

Our visions of warmer worlds are formed by a mix of firm century-old science and evolving state-of-the-art model output. The clarity of this vision when restricted to numerical models is limited, even for a zero degree warmer world. Various

that some models are not expected to yield realistic results (defined, say, as "decision relevant" results), when they reach temperatures significantly greater than that model's "current" global mean value, a value which itself often differs significantly from that of the Earth. Current state-of-the-art model-