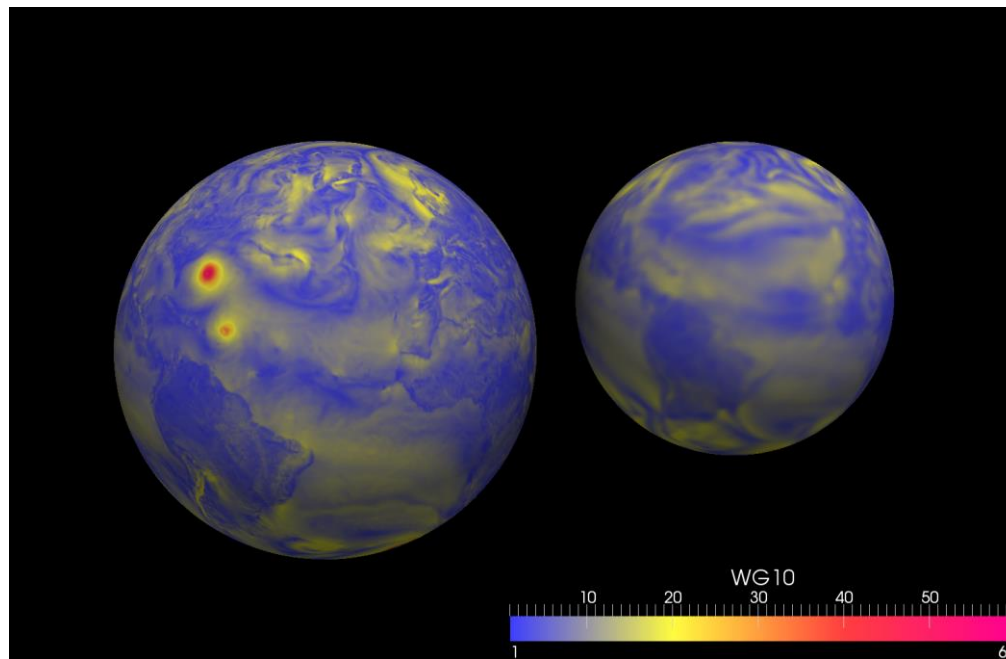


A (c)loud revolution in weather and climate research

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Weather forecasting and future climate projections are relevant to many societal sectors. Extremes in weather and climate pose a large risk to society. Advances in weather forecasting and climate research always went hand in hand with development of high performance computing. In the current era of data-driven research, with data omnipresent from disparate sources, from satellites to smart watches, and new digital technologies, the research domain is changing quickly to develop better and more relevant forecasts and future projections. In this seminar the development of the field, from aiming to resolve the turbulent nature of the atmosphere and oceans in numerical models, up to societal impact concepts will be discussed. New developments in high-end computing, machine learning and data fusion can aid in progressing the research domain and its applications forward.