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SPEAKER TITLES/ABSTRACTS

Carmen Boening

JPL

“Data and Model Analysis and Uncertainty Quantification for Sea Level Science”

Sea level change is a complex scientific problem involving many Earth system components. Not only are processes in the ocean important to understand for evaluating past, present, and future of sea level change, but sea level is also driven by external sources such as melting ice sheets, land hydrology, large scale changes in precipitation and evaporation and many more. NASA satellites and Earth system models provide a vast source of understanding these physical processes. However, analysis and uncertainty quantification of data and models are often challenging because of the size of the data, a large variety of storage locations to pull from, different data formats, and disparate error sources. In this talk, particular challenges of sea level science with a focus on water mass transport data from GRACE, sea level prediction uncertainties from ice and ocean models, and enabling analyses through web-based tools <http://sealevel.nasa.gov> will be discussed.