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The COSMIC Data Analysis and Archive Center (CDAAC) is an end-to-end processing and analysis system for ground- and space-based Global Navigation Satellite System (GNSS) data focusing on radio occultation (RO). We process data and publish products from a variety of space missions in near-real-time, post-processing, and reprocessing modes. FORMOSAT-3/COSMIC-1 (F3C) is a joint Taiwan/US RO science mission for weather, climate, space weather and geodetic research. Since its launch in 2006 the F3C payload science data are being downloaded via telemetry downlink stations and transferred to the CDAAC for processing into atmospheric profiles that are delivered in near real-time to global weather centers for assimilation into their forecasting systems. CDAAC also post-processes data from all active RO missions in a more accurate batch- processed mode within 2-3 months of observation, and reprocesses data on a ~3 year cycle with the most current and consistent software and algorithms for use in climate studies. This presentation will provide an overview of the CDAAC, update on the
status of F3C and other RO mission processing, and summarize our reprocessing efforts. We also discuss recent algorithm improvements and science highlights, plans for upcoming missions of opportunity, and look ahead to the launch of FORMOSAT-7/COSMIC-2.
OSTS session
Regional and Global CAL/VAL for Assembling a Climate Data Record
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