Remote Sensing of Essential Climate Variables and Their Applications

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Message from the Guest Editors

Essential Climate Variables (ECVs) and Climate Data Records (CDRs) have become increasingly common, accurate and useful in a wide range of applications. In this Special Issue of Remote Sensing, we call for papers describing all aspects of CDR development, generation, validation, application and resulting societal benefits. We also seek papers on broader CDR and ECV guidelines, standards and frameworks such as requirements development, metadata, application of metrological standards, documentation and production practices, assessment tools and inventories. Our goal is to provide the most comprehensive compendium of CDR-related articles yet compiled. Although we recognize the societal value of all satellite records, we request that contributors adhere to the NRC working definition of a CDR, i.e., a time series of measurements of sufficient length, consistency, and continuity to determine climate variability and change. This mostly requires compilations stemming from multiple satellites, however in special cases where a reprocessed record from a single mission meets that definition, associated papers are welcomed.