

Data assimilation system for food production estimation

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Recent progress in satellite data productions, such as solar radiation, precipitation rate, soil water contents, enable us to generate more useful information through the data assimilation systems. In addition, next generation satellites will improve both time and spatial resolution. Thus data assimilation system with terrestrial modeling will be made the output for food production estimation in the near of future. We will try to discuss the role of super-high resolution optical sensors and SAR data for data assimilation system, and how to establish the validation system including in-situ observation networks.

Keywords: Terrestrial Studies, Remote Sensing, Data Assimilation