Use of Earth Observation for the study of climate and socio-environmental systems

Seminar presented by Benoit Parmentier, Data Scientist for SESYNC.

Earth observation and geospatial datasets are providing a unique synoptic view of the Earth system with time series spanning the decadal time scale. As datasets are rapidly increasing in number and a host of new use cases have found their way in multiple fields. In this talk, I provide a brief survey of research applications in socio-environmental systems along with some of the latest methods developed in my research. Some of the topics include land change and fire, climate interpolation, climate variability, spatial epidemiology and urban expansion.

About speaker: Benoit Parmentier is a trained geographer whose research interests include land cover change, climate, sustainability, global environmental change and Remote Sensing/GIS and social sciences. Benoit is from Belgium where he did his undergraduate studies and master in geography and Remote Sensing/Cartography. He holds his PhD in geography from Clark University Worchester Massachusetts. During graduate school, he worked at Clark Labs (IDRISI/TerrSet) for many years and later spent some time at the National Center for Ecological Analysis and Synthesis(NCEAS) as a postdoc. He worked at the Sustainability Solutions Initiative at the University of Maine for a few years before joining SESYNC. He is involved in research on...
time series analyses, space-time methods, Climate Variability and teleconnections (ENSO), land cover change and Food flows in Yucatan.

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