Sessão Especial: Big Data em Observação da Terra: infraestruturas e análises espaço-temporais *(Big Earth Observation Databases: infrastructure and spatiotemporal analysis)*

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Current scientific methods for extracting information for Earth observation data lag far behind our capacity to build sophisticated satellites. These satellites produce massive amounts of data, but only a fraction of that data is effectively used for scientific research and operational applications. *How can substantially improve the extraction of information from big Earth Observation data sets in an open and reproducible way?* In response to this challenge, this Special Session will present and discuss new types of knowledge platform for organization, access, processing and analysis of big Earth Observation data. The presentations will focus on the innovative techniques of large-scale databases that can hold thousands of images joined in space and time. Users are then able to develop algorithms that can seamlessly span partitions in space, time, and spectral dimensions. The special Session will present state-of-the-art advances on infrastructure and analysis for big Earth observation data.

Hora	**Título das Palestras**	**Apresentador**
09:00	The Google Earth Engine: Massive Earth Observation Data Access and Processing	Dr. Rebecca Moore (Google)
09:45	High Resolution Global Maps of 21st-Century Forest Cover Change	Dr. Matthew Hansen (University of Maryland, USA)
10:30	The Roadmap for a Global Land Observatory	Dr. Gilberto Câmara (INPE) and (IFGI-Germany)
11:15	Time Series Analysis of Big Earth Observation Data	Dra. Lúbia Vinhas (INPE)
12:00	Closing	