Sessão Temática: Novas oportunidades para o sensoriamento remoto da vegetação Amazônica com dados MODIS usando o algoritmo de correção atmosférica com implementação multi-ângulo (MAIAC). *(New opportunities for Remote Sensing of Amazon vegetation from MODIS using the Multi-Angle Implementation of Atmospheric Correction (MAIAC) Algorithm.*

Coordenador: Dr. Thomas Hilker (Oregon State University)

The Amazon basin is a critical hotspot for biodiversity and for the global carbon, water and energy cycle. NASA's Moderate Resolution Imaging Spectroradiometer (MODIS) has been the workhorse for investigating its sensitivity to climate effects, but deficiencies in estimation of atmospheric aerosol loadings and cloud screening introduce large uncertainties in vegetation parameters obtained over tropical regions. A recently developed Multi-Angle Implementation of Atmospheric Correction algorithm (MAIAC) offers substantial improvements by mitigating atmospheric interference and advancing the accuracy of surface reflectance over tropical vegetation by factor of 3-10 and increasing the number of clear-sky observations. The objective of this workshop is to explore the opportunities of this new algorithm. The session will provide an introduction into MAIAC, present results from improved time series analyses and show new possibilities arising from utilizing the multi-angle capacity of MODIS data processed with MAIAC. Potentials and limitations of MAIAC time series will be provided by means of a detailed error analysis. The expected outcome of this workshop is an improved understanding of current limitations and new opportunities for tropical ecosystem monitoring from algorithms like MAIAC.

Hora	Título das Palestras	Apresentador
09:00	Opening	Dr.Thomas Hilker (Oregon State University)
09:10	A novel Multi-Angle Implementation of Atmospheric Correction Algorithm – an Introduction	Dr. Alexei I. Lyapustin (NASA, GSFC)
10:00	Using multi-angle data to analyze structural changes in Amazonian forests	Yhasmin Mendes de Moura (INPE)
10:30	Seasonality and Drought Impacts: Results from Remote Sensing	Dra. Ranga Myneni (Boston University)
11:10	New Opportunities for Remote Sensing of Tropical Ecosystems from Space: Improvements from MAIAC	Dr. Thomas Hilker (Oregon State University)
11:50	Discussion	
12:00	Closing	