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**Sessão Temática:** Uso de satélites, modelos de ecossistemas e inventários florestais para apoio às políticas de REDD+ (*Informing REDD+ services with satellite, ecosystem models, and forest inventory*)

**Coordinators:** Dr. Benjamin Poulter (Montana State University, USA) and Dr. Nicolas Barbier (IRD-UMR, AMAP, France)

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Assessing the structure and biomass of tropical forests in a frequent and consistent manner is key to sustainably manage, exploit, preserve and enhance forest resources not only in a commercial but also in a conservation context in order to maintain their function as carbon sink. This course focuses on the requirements and assessment methods to effectively implement forest monitoring systems needed to measure the performance under practices related to the Reduced Emissions from Deforestation and forest Degradation (REDD+) framework. Following REDD+ guidelines and protocol, the amount of accountable carbon stock incentivized by carbon credits is related to the uncertainty of the measurements, with the lowest uncertainty expected by Tier 3 estimates. Tier 3 carbon estimates require a calibrated carbon cycle modeling approach that integrates forest inventory, remote sensing and carbon cycle modeling to estimate carbon stocks for a variety of forest carbon pools. This short course will present state-of-art tools and methodology currently being developed to map tropical forest types, structure, carbon density and degradation. The course will include presentations related to REDD+ project design principles, new radar and optical remote sensing approaches for estimating forest biomass and stand structure, modeling forest carbon dynamics, and economic aspects and issues related to uncertainty. The presentations will be given by partners who are working together in a European Union funded Climate KIC initiative related to monitoring and verifying forest carbon stocks. The topics are aimed to a broad audience interested in linking carbon policy, remote sensing techniques, carbon cycle modeling, and forest economics, and the challenges and opportunities posed by interdisciplinary research.

<b>Hora</b>	<b>Título das Palestras</b>	<b>Apresentador</b>
9:00	Opening	
9:05	What goes into REDD+ project design?	Dr. Nicolas Chenet (ONFI, France)
9:35	Using new RADAR remote sensing observations to estimate forest biomass.	Dr. Felicitas Poncet (Airbus, Germany)
10:05	Approaches in optical remote sensing for mapping forest stand structure.	Dr. Nicolas Barbier (IRD-UMR, AMAP, France)
10:30	Calibrating carbon cycle models to determine tropical ecosystem biomass stocks.	Dr. Benjamin Poulter (Montana State University, USA)
11:05	Quantifying forest biomass uncertainties along the REDD+ processing chain	Dr. Joanne Nightingale (National Physical Laboratory, UK)
11:35	Financing carbon sequestration with REDD+	Dra. Mariana Deheza (CDC-Climat, France)
12:00	Closing	