

BG3.20: Global Earth observation for improved understanding of terrestrial ecosystem dynamics

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[Displays](#) | [Chat Tue, 05 May, 08:30–10:15](#)

Preliminary schedule for the session chat

Active?	Start	End	Duration	Title / Author
18	8:30	10:15	01:45	
	8:30	8:32	00:02	Introduction
0	8:32	8:32	0:00	D697 Estimating carbon losses from disturbances in tropical moist forests (deforestation and forest degradation) since 2011 by Frederic Achard, Christelle Vancutsem, Valerio Avitabile, and Andreas Langner
1	8:32	8:37	0:05	D698 Relating ASCAT backscatter and dynamic vegetation parameters to vegetation water dynamics in the Amazon by Ashwini Petchiappan, Susan Steele-Dunne, Mariette Vreugdenhil, Sebastian Hahn, and Wolfgang Wagner
1	8:37	8:42	0:05	D699 Analysis of water dynamics in the soil-plant-atmosphere continuum using a multi-sensor approach by David Chaparro, Thomas Jagdhuber, Dara Entekhabi, Maria Piles, Anke Fluhrer, Andrew Feldman, François Jonard, and Mercè
1	8:42	8:47	0:05	D700 Effects of sub-daily internal and external canopy water fluctuations on radar backscatter by Paul Vermunt, Susan Steele-Dunne, Saeed Khabbazan, Jasmeet Judge, and Leila Guerriero
1	8:47	8:52	0:05	D701 Global maps of ecosystem functional properties with the SCOPE model on Google earth engine Sentinel-2 composites by Egor Prikaziuk, Christiaan van der Tol, and Mirco Migliavacca
1	8:52	8:57	0:05	D702 Climatic drivers and biogeophysical feedbacks: a causal inference approach over multiple temporal scales by Jeroen Claessen, Annalisa Molini, Brecht Martens, Matteo Detto, Matthias Demuzere, and Diego G. Miralles
1	8:57	9:02	0:05	D703 Slow-down of the greening trend in natural vegetation with further rise in atmospheric CO2 by Alexander J. Winkler, Ranga B. Myneni, Alexis Hannart, and Victor Brovkin
1	9:02	9:07	0:05	D704 Down-scaling MODIS operational vegetation products with machine learning and fused gap-free high resolution reflectance data in Google Earth Engine
0	9:07	9:07	0:00	D705 Predicting <i>Opuntia stricta</i> (Haw.) in arid and semi-arid environment of Kenya using Sentinel imagery and ensemble machine learning classifiers
0	9:07	9:07	0:00	D706 Land use shapes the relationship between tree cover and carbon stocks in the tropics by Manan Bhan, Steffen Fritz, Simone Gingrich, and Karlheinz Erb
1	9:07	9:12	0:05	D707 How global dryland vegetation dynamics relate to changing climatic conditions and anthropogenic dynamics by Christin Abel, Stéphanie Horion, Torbern Tagesson, Wanda De Keersmaecker, Alistair W.R. Seddon, Abdulhakim M. Abdi, and
1	9:12	9:17	0:05	D708 Quantitatively distinguish the impact of climate change and human activities on the vegetation changes in Mainland China based on the improved residual method
1	9:17	9:22	0:05	D709 Unraveling the time-scale teleconnections between soil moisture and vegetation by Diego Bueso, Maria Piles, and Gustau Camps-Valls
0	9:22	9:22	0:00	D710 Phenology-induced energy and carbon fluxes in land surface models by Jan De Pue, José Miguel Barrios, Fabienne Maignan, Liyang Liu, Philippe Ciais, Alirio Arboleda, Rafiq Hamdi, Manuela Balzarolo,
1	9:22	9:27	0:05	D711 An offline reanalysis of land surface variables with LDAS-Monde forced by a kilometer scale NWP system by Bertrand Bonan, Clément Albergel, Adrien Napoly, Yongjun Zheng, and Jean-Christophe Calvet
1	9:27	9:32	0:05	D712 On the added value of improving the spatial representation and seasonal variations of vegetation cover in land surface models for simulated land surface temperature
0	9:32	9:32	0:00	D713 Inferring non-steady-state terrestrial vegetation carbon turnover times from multi-decadal space-borne observations on global scale
1	9:32	9:37	0:05	D714 Forest above-ground biomass estimates across three decades from spaceborne scatterometer observations by Maurizio Santoro, Oliver Cartus, Nuno Carvalhais, Simon Besnard, and Naixin Fan
0	9:37	9:37	0:00	D715 A new space-borne perspective of crop productivity variations over the US Corn Belt not presented by Peter Somkuti, Hartmut Boesch, Robert Parker, Alex Webb, Liang Feng, Paul Palmer, and Tristan Quaife
1	9:37	9:42	0:05	D716 Convergences and divergences between data-driven GPP estimates and high-resolution SIF measurements across vegetation and climatic gradients
1	9:42	9:47	0:05	D717 Estimation of global vegetation productivity from 1981 to 2018 With remote sensing data by Rui Sun, Juanmin Wang, Zhiqiang Xiao, Anran Zhu, Mengjia Wang, and Tao Yu
1	9:47	9:52	0:05	D718 A new global Gross Primary Production (GPP) dataset based on microwave Vegetation Optical Depth Climate Archive (VODCA)
1	9:52	9:57	0:05	D719 The Global Long-term Microwave Vegetation Optical Depth Climate Archive VODCA by Leander Moesinger, Ruxandra Zotta, Robin van der Schalie, Matthias Forkel, Tracy Scanlon, Irene Teubner, Richard de Jeu, and
1	9:57	10:02	0:05	D720 Assessing the sensitivity of multi-frequency vegetation optical depth to biomass and canopy moisture content: towards an ecological-oriented evaluation
0	10:02	10:02	0:00	D721 SMOS-IC L-VOD reveals that tropical forests did not recover from the strong 2015–2016 El Niño event by Lei Fan, Jean-pierre Wigneron, Philippe Ciais, Ana Bastos, Martin Brandt, Jérôme Chave, Sassan Saatchi, Alessandro Baccini, and
	10:02	10:15	00:13	Final discussion time