

BIOMASS 2015 Programme

Day 2, Tuesday 27 January 2015

D2S1 - Opening Sesssion

Chairs: Klaus Scipal, ESA / Shaun Quegan, University of Sheffield

09:00 -	09:20	Opening statement, Workshop Goals, Logistics	Klaus Scipal, ESA-ESTEC, Netherlands
09:20 -	09:40	The BIOMASS Mission: Science and Background	Williams, Mat University of Edinburgh, United Kingdom
09:40 -	10:00	The BIOMASS Mission: How it works and what it measures	Thuy Le Toan, Centre d'Etudes Spatiales de la Biosphère (CESBIO), France
10:00 -	10:30	Introducing the 6 key questions of the workshop by Session Leads	Shaun Quegan, University of Sheffield, United Kingdom
10:30-	11:00	Coffee Break	

D2S2 - How will BIOMASS improve C cycle and C flux estimates?

Chairs: Markus Reichstein, Max-Planck-Institute / Philippe Ciais, LSCE

11:00 -	11:20	Modelling biomass dynamics at tropical sites in French guyana in the prospect of assimilation of spaceborne biomass measurements	Nicolas Nadjovski, Montana State University, US
11:20 -	11:40	BIOMASS observations for an enhanced understanding of the terrestrial carbon cycle	Nuno Carvalhais, Max-Planck-Institute, Germany
11:40 -	12:00	Improving understanding of the environmental controls of forest biomass and productivity: insights from permanent plot networks	Nathan Lee Stephenson, USGS, US
12:00 -	12:20	Plenary Discussion	
12:20 -	13:20	Lunch	
13:20 -	13:30	Summary Report on "How will BIOMASS improve C cycle and C flux estimates?"	

D2S3 - Global biomass and C flux maps and syntheses: how good are they and how much will BIOMASS improve them?

Chairs: Sassan Saatchi, JPL / Andreas Langner, JRC

13:30	13:50	An intercomparison of pantropical biomass maps	Edward T.A. Mitchard, University of Edinburgh, UK
13:50	14:10	Satellite-based estimates of tropical biomass change 2002-2012	Alessandro Baccini, Woods Hole Research Center, UK
14:10 -	14:50	Plenary Discussion	
14:50 -	15:20	Coffee Break	
15:20 -	15:30	Summary Report "Global biomass and C flux maps and syntheses: how good are they and how much will BIOMASS improve them?"	

D2S4 - What in situ and Lidar measurements are needed for BIOMASS training & validation? What changes are needed to current networks? And how good are current networks anyway for representing biomass at the large scale?

Chairs: Jerome Chave, CNRS / Keryn Paul, CSIRO

15:30 -	15:50	A Ground-up View on Measuring Tropical Forest BIOMASS	Oliver Phillips, University of Leeds, UK
15:50 -	16:10	Local spatial structure of forest biomass and its consequences for the calibration strategy of the BIOMASS Mission	Maxime Réjou-Méchain, Institut Français de Pondichéry, India
16:10 -	16:20	New measurements of biomass and structure in tropical forests	Mathias Inguar Disney, University College London, UK
16:20 -	17:00	Plenary Discussion	
17:00 -	17:10	Summary Report "What in situ and lidar measurements are needed for BIOMASS training & validation? What changes are needed to current networks? And how good are current networks anyway for representing biomass at the large scale"	
17:10 -	18:30	BIOMASS POSTER SESSION	

Day 3, Wednesday 28 January 2015

D3S1 - What steps must be taken to embed BIOMASS data in policy issues?

Chairs: Martin Herold, Wageningen University / Casey M. Ryan, School of GeoSciences

09:00 - 09:20	What do most developing countries need from remote sensing for REDD+ reporting?	Adam Gerrand, FAO, Italy
09:20 - 09:40	Potential opportunities and adaptability of ESA's BIOMASS mission products in the Hindu Kush-Himalayan region	Hammad Gilani, International Centre for Integrated Mountain Development, Nepal
09:40 - 10:00	National requirements for reporting forest biomass and GHG emissions	Simon Eggleston, Global Forest Observations Initiative Programme Office, Switzerland
10:00 - 10:20	Plenary Discussion	
10:20 - 10:50	Coffee Break	
10:50 - 11:00	Summary Report "What steps must be taken to embed BIOMASS data in policy issues?"	

D3S2 - How can BIOMASS be used to improve estimates of forest dynamics?

Chairs: Mat Williams, University of Edinburgh / Andreas Huth, Helmholtz Centre of Environmental Research

11:00 - 11:20	Forest loss, degradation and fire in the equatorial forests of Southeast Asia -- some recent CIFOR research	Douglas Sheil, Norwegian University of Life Sciences, Norway
11:20 - 11:40	Fragmentation of tropical forests	Andreas Huth Helmholtz Center for Environmental Research, Germany
11:40 - 12:20	Plenary Discussion	
12:20 - 13:20	Lunch	
13:20 - 13:30	Summary Report "How can BIOMASS be used to improve estimates of forest dynamics?"	

D3S3 - BIOMASS is not alone in space; what are the synergies with other missions?

Chairs: Christiane Cornelia Schmullius, Friedrich Schiller Universität Jena / Zhuoting Wu, USGS

13:30 - 13:50	Global forest observation using the L-band SARs on ALOS and ALOS-2	Masanobu Shimada, JAXA, Japan
13:50 - 14:10	The Global Ecosystem Dynamics Investigation (GEDI) Lidar	Ralph Dubayah, University of Maryland, US
14:10 - 14:50	Plenary Discussion	
14:50 - 15:20	Coffee Break	
15:20 - 15:30	Summary Report "BIOMASS is not alone in space; what are the synergies with other missions?"	
15:30 - 18:30	Open Science Forum - 10 minute discussion sessions on topics proposed by conference participants	

Day 4, Thursday 29 January 2015

Joint Sessions POLinSAR-BIOMASS 2015

D4S1 - The Biomass Mission

Chair: Thuy Le Toan, CESBIO

09:00 - 09:20	Facing the scientific challenges of the BIOMASS mission	Shaun Quegan, University of Sheffield, UK
09:20 - 09:40	The Biomass mission, status of the satellite system	Marco Arcioni, ESA-ESTEC, Netherlands
09:40 - 10:00	On the Separation of Dynamic Scattering and Ionospheric Effects in SAR Data	Kim, Jun Su DLR, Germany
10:00 - 10:20	Assessment Of Tropical Forest Biomass: A Challenging Objective For The Biomass Mission	Thuy Le Toan, ESA-ESTEC, France
10:20 - 10:40	On the Correlation Between Biomass and the P-band, Polarimetric HH-VV Phase Difference, and Its Potential for Biomass and Tree Number Density Estimation from SAR	Maciej Jerzy Soja, Chalmers University of Technology, Sweden
10:40 - 11:10	Coffee Break	

D4S2 - P-band PolSAR and PolInSAR for Forest Information Retrieval

Chairs: Konstantinos Papathanassiou, DLR / Lars Ulander, Swedish Defence Research Agency

11:10 - 11:30	On Combining BIOMASS with Contemporary Sensors	Mark L. Williams, Horizon Geoscience Consulting, Australia
11:30 - 11:50	A Polarimetric model of topographic effects on P-band forest backscatter	Erik Blomberg, Chalmers University of Technology, Sweden
11:50 - 12:10	First Results From The Ecosar P-Band Digital Beamforming Single Pass InSAR	Lola Fatoyinbo, NASA, US
12:10 - 12:30	Impact of temporal decorrelation on tree height and biomass estimation at P-band: PolInSAR experiments with the P-band RMoG model	Marco Lvalle, JPL/Caltech, US
12:30 - 12:50	PolInSAR Height Retrieval Method based on Electromagnetic Forward Meta-Model initiated with TomoSAR Estimates: Applications on TropiSAR Data and Prospects for Biomass mission	Ludovic Villard, CESBIO, France
12:50 - 13:10	A Comparison of P- and L-Band 3-D PolInSAR Forest Structure Estimates: A Study Case in Traunstein (Germany)	Matteo Pardini, DLR, Germany
13:10 - 14:40	Lunch	

D4S3 - P-band Tomography

Chairs: Laurent Ferro-Famil, University of Rennes 1 / Othmar Frey, ETH Zurich

14:40 - 15:00	SAR Tomography imaging of a tropical forest at P- and L-band	Ho Tong Minh, Dinh CESBIO, France
15:00 - 15:20	Airborne Holographic SAR Tomography at L- and P-band	Octavio Ponce, DLR, Germany
15:20 - 15:40	Tropical forest BIOMASS retrieval using P-band POLTOMSAR data	Bassam El Hajj Chehade, University of Rennes 1, France
15:40 - 16:00	Forest Structure Information Retrieval from Polarimetric Tomographic SAR Data	Marivi Tello, DLR, Germany
16:00 - 16:30	Coffee Break	

D4S4 - Biomass Beyond Forests

Chairs: Philippe Paillou, University of Bordeaux / Jorgen Dall, Technical University of Denmark

16:30 - 16:50	The BIOMASS Mission: Secondary Objectives	Philippe Paillou, University of Bordeaux, France
16:50 - 17:10	A Comparison of L- and P-band PolSAR Observations of a Sub-polar Ice-cap	Giuseppe Parrella, DLR, Germany
17:10 - 17:30	The effect of dielectric changes on ice velocities measured with polarimetric DInSAR	Jorgen Dall, Technical University of Denmark, Denmark
17:30 - 18:10	Round Table Discussion	
18:10 - 19:40	JOINT POSTER SESSION	

Day 5, Friday 30 January 2015

Session Summaries

Chairs: Shaun Quegan, University of Sheffield / Thuy Le Toan, CESBIO

12:10 - 13:10	Session Summaries
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