

Program ForestSat07 Montpellier November 5 - 7th

Monday, Nov 5th

9.00 am	Opening Session	
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		Plenary Session	Global Forest Monitoring and International reporting
Monday	10.00 am	26	Use of multi-temporal satellite imagery over large territories for monitoring the state of the boreal forest of north-western Quebec, Canada Osvaldo Valeria, Ahmed Laamrani, André Beaudoin, Stephen Côté & Guy Simard
	10.20 am	148	Verification of the monitoring method for ARD under article 3.3 of the Kyoto protocol: the case of Japan Masato Hayashi, Shuji Hori, Kei Suzuki, Toshiro Iehara, Mitsuo Matsumoto, Yoshio Awaya, and Ghislain Gonzales
	10.40 am	154	A first global SPOT mosaic of French Guiana for Kyoto protocol reporting by SEAS-Guyane direct receiving station Michel Petit, Jean-François Faure, Jean-François Girres, Kenji Ose, Laurent Durieux, Christina Corbane, Frédéric Huynh, Dominique Lasselin, Michel Deshayes And Nicolas Stach
	11.00 am	163	Implementation of the MCPFE indicator on landscape level spatial pattern over Europe C. Estreguil, P. Vogt, K. Ostapowicz
	11.20 am	172	Forest cover change detection in Papua New Guinea : testing an object-based approach in the context of the TREES-3 project L. Durieux, H-J.Stibig, F. Achard

11.40 - 12.10 pm	Coffee Break
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		Plenary Session	Remote sensing for sustainable forestry
Monday	12.10 pm	62	Remote sensing within an ecosystem-based management framework for sustainable forests J. E. Luther, R. A. Fournier, B. Hearn, D. Piercey, L. Royer, and G. Strickland,
	12.30 pm	158	Applications of Satellite-Derived Disturbance Information in Support of Sustainable Forest Management Sean P. Healey, Warren B. Cohen, Gretchen G. Moisen
	12.50 pm	178	Remote sensing and geographic information for sustainable management and harvesting of the tropical moist forests in the Congo basin Laurent Dufy
	1.10 pm	136	A participatory landcover/forest type classification by satellite images for a sustainable monitoring Gen Takao

1.30 - 2.30 pm	Lunch
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Monday	Parallel Session		Change detection	
	2.30 pm	8	Canada's Deforestation Monitoring for International Reporting	D. Leckie, S. Tinis, D. Paradine, F. Eichel, D. Tammadge
	2.50 pm	14	Use of Landsat-based Monitoring of Forest Change to Sample and Assess the Role of Disturbance and Regrowth in the Carbon Cycle at Continental Scales	Warren Cohen, Sean Healey, Samuel Goward, Gretchen Moisen, Jeff Masek, Robert Kennedy, Scott Powell, Chengquan Huang, Nancy Thomas, Karen Schleweis
	3.10 pm	89	Estimating area of forest change by random sampling of change strata mapped using satellite imagery	Dymond John R., Shepherd James D., Arnold Greg C. and Trotter Craig M.
	3.30 pm	159	Application of change detection methods to study dynamics of forest in northern Belarus	Maryna Rymasheuskaya

	Parallel Session		Forest Inventory, Classification & k-NN methods (1/2)	
	2.30 pm	151	Comparative analysis of kNN and decision trees for the Irish NFI	Daniel McInerney, Maarten Nieuwenhuis,
	2.50 pm	181	Design-based unbiased estimator in K-NN techniques to support forest inventories	F. Baffetta, P. Corona, G. Chirici, L. Fattorini, S. Franceschi
	3.10 pm	85	Testing of the k-nearest neighbour method to estimate and map forest volume, biomass and cover type in fragmented forests	Annemarie Bastrup-Birk, Anssi Pekkarinen, Lucia Reithmaier, Vivian Kvist Johannsen,
	3.30 pm	23	The current state of nearest neighbors techniques for remote sensing classification and prediction	Ronald E. McRoberts, Erkki O. Tomppo

3.50 - 4.20 pm

Coffee Break

Monday	Parallel Session		Biodiversity and Landscape ecology	
	4.20 pm	43	Modelling of NATURA 2000 Habitat Types in Different Biogeographic Regions – Experiences from Spain and Germany	Michael Förster, Javier Velázquez, Birgit Kleinschmit
	4.40 pm	74	Remote-sensing data to predict distribution of landbirds of conservation concern in Canada's eastern boreal forest	Jason A. Duffe, J. Ryan Zimmerling, Jeannine Paquette and Evan D. Seed
	5.00 pm	76	Forecasting of the managed boreal forest landscape using satellite data time series	H. Olsson, J. Bohlin, S. Joyce,
	5.20 pm	81	Modelling deforestation in a tropical dry region of Mexico	Gabriela Cuevas and Jean-François Mas,
	5.40 pm	98	Object-oriented classification potential to characterize landscape structure from aerial photography	David Sheeren, Nicolas Bastin, Annie Ouin, Jean-Paul Lacombe, Sylvie Ladet and Gérard Balent
	6.00 pm	127	Magnitude and distance of edge influence at anthropogenically created forest edges on very high resolution Ikonos satellite images	Urmas Peterson, Jaan Liira and Ülo Mander

	Parallel Session		Forest Inventory, Classification & k-NN methods (2/2)	
	4.20 pm	25	Estimating annual cuttings using multi-temporal satellite data and field data from the Swedish NFI	Mats Nilsson, Sören Holm, Jörgen Wallerman, Heather Reese and Håkan Olsson
	4.40 pm	118	Large-area stem volume estimation based on airborne laser scanner data and national forest inventory data	Hollaus Markus, Dorigo Wouter, Wagner Wolfgang, Schadauer Klemens, Maier Bernhard
	5.00 pm	164	An evaluation of climate parameters in relation to forest inventory data: towards guidance for satellite-based forest attribute modelling	Greg C. Liknes, Christopher W. Woodall.
	5.20 pm	173	Estimation and regionalization of aboveground biomass in a forest-tundra ecosystem in Siberia: Combining satellite imagery (QuickBird, ASTER) and field inventory data with a non parametric approach	Hans Fuchs, Paul Magdon, Christoph Kleinn, Natalia Mikheyeva, Heiner Flessa
	5.40 pm	22	Moving remote sensing from forest attribute mapping to forest resource estimation	Ronald E. McRoberts

6.20 pm

End of first conference day

7.00 - 8.00 pm

Icebreaker Party

8.00 - 9.00 pm

Visit of the Amazonian Greenhouse

Tuesday, Nov 6th

Plenary Session	ESA GSE-Forest Monitoring project session
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Tuesday	8.30 - 9.00 am invited talk	Prospects for Forest Monitoring with GMES	Mark Doherty
	9.00 am	68 Policy Foundations and User Involvement in the GMES Service Element for Forest Monitoring	Jo Van Brusselen and Andreas Schuck,
	9.20 am	117 Service portfolio evolution – the instrument for keeping the services of GSE Forest Monitoring up to date	Christian Thiel, Carolin Thiel, Johannes Reiche, Reik Leiterer, Tanja Riedel, Christiane Schullius
	9.40 am	119 Monitoring land use and land use changes in French Guiana by optical remote sensing	Nicolas Stach, Anne Salvado, Michel Petit, Florent Ingrassia, Pierre Joubert and Michel Deshayes
	10.00 am	61 Gse fm - (sub)-national forest information update in thuringia	Gernot Ramminger, Barbara Koch,
	10.20 am	73 Forest type mapping based on SPOT-5 and IKONOS data as a service within GSE Forest Monitoring	Tanja Kraus, Michael Bock, Guenter Strunz,

10.40 - 11.10 am	Coffee Break
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Plenary Session	RS for forest parameters assessment
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Tuesday	11.10 am	57 Prediction of tree species by means of airborne digital sensor data and LiDAR.	L.T. Waser, M. Kuchler, E. Baltsavias, H. Eisenbeiss,
	11.30 am	87 Allometric equations between DBH and sunny-crown area derived from high resolution satellite data in Cryptomeria Japonica and Chamaecyparis obtusa	Yasumasa Hirata, Yukinori Tsubota, Atsushi Sakai
	11.50 am	152 A comparison of biophysical parameter retrieval for forestry using airborne and satellite LiDAR	J. Rosette, P. North and J. Suárez,
	12.10 pm	168 Processing full-waveform lidar data to extract forest parameters and digital terrain model: validation in an alpine coniferous forest	Adrien Chauve, Sylvie Durrieu, Frédéric Bretar, Marc Pierrot Deseilligny, William Puech
	12.30 pm	170 A strategy to map biomass of Canadian northern boreal forests using multi-sensor / multi-resolution imagery: approach, methods and preliminary results.	Beaudoin A., L. Guindon, R.J. Hall, J.E. Luther and R. Fournier
	12.50 pm	94 Terrestrial laser scanning for forest inventory and carbon sequestration	Agata Wencel, Pawel Strzelinski, Tomasz Zawila-Niedzwiecki, Marcin Chirrek
	1.10 pm	179 Summary of 10 Years of Forest Biomass Mapping in Finland, Central Siberia and NE China using C- and L-Band Radar Interferometry and Hyper-Temporal Analysis	Schullius, C., Santoro, M., Askne, J., Cartus, Eriksson, L., O., Thiel, Ch., Thiel, C., Wegmüller, U., Wiesmann, A.

1.30 -2.30 pm	Lunch
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Parallel Session	Large area forest monitoring using RS data	
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Tuesday	2.30 pm	42	Mapping northern boreal forests of Eastern Canada using shadow fraction and decision rules	Antoine Leboeuf; Richard Fournier; Joan Luther; Mélanie Houle
	2.50 pm	99	Post-socialist forest cover changes in the Polish Carpathians	Patrick Hostert, Magdalena Main, Tobias Kuemmerle,
	3.10 pm	104	Detecting and Monitoring of Forest Operations and Disturbances at National Level	Aron Davidsson, Joakim Evertson, Mats Rosengren,
	3.30 pm	108	Remote Sensing based forest map of Austria and derived environmental indicators.	Gallaun Heinz, Schardt Mathias, Linser Stefanie,
	3.50 pm	124	Remote sensing estimation of lichen coverage over the Swedish reindeer husbandry area	Michael Gilichinsky, Heather Reese, Per Sandström, Jon Moen and Mats Nilsson
	4.10 pm	174	Full-service technologies for receiving high-resolution satellite imagery for forest management in Russia	Alexander A. Maslov

4.30 - 5.00 pm	Coffee break
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Parallel Session	High Resolution imagery (1/2)	
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Tuesday	5.00 pm	4	Using remote sensing observations for modeling transpiration of a sparse Mediterranean dryland planted forest	Michael Sprintsin, Arnon Karnieli, Shabtai Cohen and Pedro Berliner
	5.20 pm	103	A Hybrid Clustering and Statistical Method for Detecting Errors in Forest Stand Databases	Mats Rosengren, Aron Davidsson, Joakim Evertson
	5.40 pm	17	Investigating the utility of AWIFS data for forest information	Heather Reese, Mats Nilsson, Håkan Olsson
	6.20 pm	82	Detecting changes in riparian habitat conditions based on patterns of remotely sensed greenness change	K. Bruce Jones, Curtis Edmonds, and Anne C. Neale,

6.20 pm	End of second conference day
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8.30 pm	Conference Dinner
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Parallel Session	Very High Resolution imagery (1/2)	
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Tuesday	2.30 pm	31	Potential and constraints of UAV technology for the characterisation of Mediterranean riparian forest: a case study of the Drôme, France.	R. Dunford, K Michel and H. Piégay
	2.50 pm	69	Spatiotemporal dynamics of land use/land cover of north western of Turkey: a case study from Igneada forest planning unit	Sedat Keles, Fatih Sivrikaya, Günay Çakir, Selahattin Köse, Emin Zeki Bachkent,
	3.10 pm	97	The accuracy and possible uses of a stand height map derived from a Digital Surface Model	Zoltán Zboray, Eszter Tanács, Ilona Bárány-Kevei,
	3.30 pm	107	Small scale forest classification and evaluation of wood resources in the Ukrainian Carpathians	M. Hirschmugl, H. Schmidtke, K. Granica, M. Schardt, B. Ruff,
	3.50 pm	109	The Potential of Optical High Resolution Data for the Assessment of Leaf Area Index in East African Rainforest Ecosystems	Tanja Kraus, Michael Schmidt, Stefan Dech, Cyrus Samimi,

Parallel Session	Very High Resolution imagery (2/2)	
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Tuesday	5.00 pm	122	Monitoring forest logging in Mediterranean coppice by multitemporal VHR satellite imagery	Chirici G., Corona P., Marchetti M., Rossi L., Tonti D., Giuliarelli D.
	5.20 pm	150	Canopy structure from above and below: relations between Ikonos image and hemiphotos	Flores O., Trébuchon J.-F., Gond V., Gourlet-Fleury S.,
	5.40 pm	155	Self-learning Canopy Gap Mapping for Aerial Images using Photogrammetric Height, Color, and Texture Information	R. Nuske and O. Ronneberger,

Wednesday, Nov 7th

Parallel Session High Resolution imagery (2/2)

Wednesday	8.30 am	35	Use of ALSAT-1 data and the SIG for identifying the impact of the Forest fires in forest ecosystem in semi arid zone	Zegrar Ahmed, Kebir Lahcene
	8.50 am	36	Forest cover and carbon changes in coastal temperate rainforest, Chile	Romero P. Neira E., Lara A.
	9.10 am	169	DMC: Advances in small satellite constellation imaging capability	Hawkins O., Mackin S., Stephens P.
	9.30 am	86	Pan-European forest/non-forest mapping for epochs 1990 and 2000	Anssi Pekkarinen, Lucia Reithmaier and Peter Strobl,

Parallel Session Hyperspectral & Advanced sensors

8.30 am	18	Fluorescence LiDAR method for remote monitoring of vegetation	Fateyeva N., Klimkin A., Klimkin V., Matvienko G.
8.50 am	29	Forest Reflectance Modelling of Hyperspectral Data	Lange Holger, Solberg Svein
9.10 am	63	Järvelja testsite for the RAMI (Radiation transfer Model Intercomparison) phase 4	Mait Lang, Andres Kuusk, Tiit Nilson, Matti Möttus, Joel Kuusk, Tõnu Lükk,
9.30 am	100	Forest reflectance simulations for a hemiboreal test site: Linking angular properties of the spectral signature to canopy structure	Miina Rautiainen, Pauline Stenberg, Matti Mottus, Andres Kuusk, Mait Lang, Tiit Nilson,
9.50 am	138	A basis for estimating productivity via light use efficiency in eucalypt plantations with hyperspectral reflectance	Karen Barry, Libby Pinkard, Michael Battaglia, Christine Stone, Caroline Mohammed

10.10 - 10.40 am Coffee Break

Parallel Session Lidar

Wednesday	10.40 am	38	Monitoring continuous cover forests; describing fine-scale spatial structure from high resolution airborne imagery	Rachel Gaulton and Tim J. Malthus
	11.00 am	54	An approach for 3d single tree detection using airborne fullwave LiDAR raw point clouds	Sandeep Gupta, Holger Weinacker, Barbara Koch,
	11.20 am	144	Estimating forest attributes using LiDAR data: a case study in northern Italy	Chirici G., Corona P., Lamonaca A., Mason F., Montagni A., Travaglini D
	11.40 am	153	Detection and Parametrisation of High Urban Vegetation with Airborne Laser Scanning Data	Martin Rutzinger, Bernhard Höfle, Norbert Pfeifer
	12.00 pm	161	The integration of airborne LiDAR to ForestGALES to estimate wind loading on individual trees	J.Suarez, B. Gardiner and S. Bathgate,
	12.20 pm	166	Automated estimation of stand volume in eucalyptus globulus plantations using lidar data	Luis Gonçalves-Seco, Eduardo González, Rafael Crecente and David Miranda
	12.40 pm	182	Assessment of protection forest structure with airborne laser scanning in the French Alps	Dorren L. and Berger B.

Parallel Session Forest Health, Forest Damages, Fire Risk

10.40 am	13	Testing remote sensing techniques for monitoring large scale insect defoliation	Svein Solberg, Lars Eklundh, Arnt Kristian Gjertsen, Steve Joyce, Holger Lange, Erik Næsset, Håkan Olsson, Yong Pang
11.00 am	65	Integrating data from field inventories and satellite remote sensors to assess effects for forest blowdown	Mark Nelson, Sean Healey, W. Keith Moser, and Mark Hansen,
11.20 am	110	Building a nationwide 30-meter forest parameter dataset for forest health risk assessments	Jim Ellenwood, Frank Krist,
11.40 am	114	Operational Prospects in the Use of Remote Sensing for the Monitoring of Forest Decline Potentially Related to Climate Change	Nathalie Morin, Anne Jolly, Myriam Legay, Thomas Kochert
12.00 pm	147	Feature extraction on VHR satellite images to map vegetation types required in forest fire risk to characterize wildland urban interfaces	LONG Marlène, LAMPIN Corinne, JAPPIOT Marielle, BORGNIET Laurent, MORGE Denis, BOUILLON Christophe,
12.20 pm	167	Automatic extraction of forest fuel and terrain variables with airborne lidar for the determination of spatial fire risk	Luis Gonçalves-Seco , Bruño Fraga-Bugallo, David Miranda and Rafael Crecente

1.30 - 2.30 pm Lunch

Parallel Session	Medium and Low resolution sensors		
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Wednesday	2.30 pm	27	Multi-angle Imaging SpectroRadiometer (MISR) detection of charcoal production sites in Senegal	Karl Wurster
	2.50 pm	37	Seasonal and annual dynamics of Siberian forests	Haruo Sawada, Yoshito Sawada and Yojiro Matsuura
	3.10 pm	145	Quality improvement of MODIS time series to monitor forest dynamics in Tasmania	Verbesselt J., Newnham G., Opie, K. , Sims N., Barry K., Stone C., Mohammed C., Wardlaw T, and Culvenor D
	3.30 pm	156	Altitudinal variations of forest phenology over Pyrenees Mountains from SPOT/VEGETATION times-series	Guyon D., Guillot M., Hagolle O., Cardot H., Y.Vitasse, S.Delzon,

Parallel Session	Radar & Forests		
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2.30 pm	53	A P-Band SAR Mission for Biomass Monitoring	Le Toan Thuy, Quegan Shaun,
2.50 pm	93	Monitoring forest cover in French Guiana using space borne radar data	Tuomas Häme, Nicolas Stach, Yrjö Rauste, Seppo Väätäinen and Heikki Ahola
3.10 pm	116	Analysis of ASAR and PALSAR data for optimising forest cover mapping – a GSE Forest Monitoring study	Christian Thiel, Carolin Thiel, Johannes Reiche, Reik Leiterer, Christiane Schmulius
3.30 pm	125	Synthetic aperture radar for estimating above-ground biomass of the woody vegetation in a sparse savanna woodland	Karin M. Viergever, Iain H. Woodhouse, Neil Stuart
3.50 pm	143	Reforestation of burned areas monitored by SAR and a scattering model	F. Del Frate, A. Minchella, D. Solimini

4.10 - 4.30 pm	Coffee Break		
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4.30 - 5.30 pm	Conclusion Session		
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5.30 pm	End of the ForestSat07conference		
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