

Alterra Loobos site data use

Articles

2017

Chongya Jiang, Youngryel Ryu, Multi-scale evaluation of global gross primary productivity and evapotranspiration products derived from Breathing Earth System Simulator (BESS), *Remote Sensing of Environment*, Volume 186, 1 December 2016, Pages 528-547, ISSN 0034-4257, <http://dx.doi.org/10.1016/j.rse.2016.08.030>.

Knist, S., et al. (2017), Land-atmosphere coupling in EURO-CORDEX evaluation experiments, *J. Geophys. Res. Atmos.*, 122, 79–103, doi:10.1002/2016JD025476.

Haeni, M., et al. (2017), Winter respiratory C losses provide explanatory power for net ecosystem productivity, *J. Geophys. Res. Biogeosci.*, 122, 243–260.

Ma, J., et al., Evaluating carbon fluxes of global forest ecosystems by using an individual tree-based model FORCCHN, *Sci Total Environ* (2017), <http://dx.doi.org/10.1016/j.scitotenv.2017.02.073>

Decker, M., D. Or, A. Pitman, and A. Ukkola (2017), New turbulent resistance parameterization for soil evaporation based on a pore-scale model: Impact on surface fluxes in CABLE, *J. Adv. Model. Earth Syst.*, 9, doi:10.1002/2016MS000832.

Zhongmin Hu, Genan Wu, Liangxia Zhang, Shenggong Li, Xianjin Zhu, Han Zheng, Leiming Zhang, Xiaomin Sun and Guirui Yu. Modeling and Partitioning of Regional Evapotranspiration Using a Satellite-Driven Water-Carbon Coupling Model. *Remote Sens.* 2017, 9(1), 54; doi:10.3390/rs9010054.

Shi Peng, Jianguang Wen, Qing Xiao, Dongqin You, Baocheng Dou, Qiang Liu and Yong Tang. Multi-Staged NDVI Dependent Snow-Free Land-Surface Shortwave Albedo Narrowband-to-Broadband (NTB) Coefficients and Their Sensitivity Analysis. *Remote Sens.* 2017, 9(1), 93; doi:10.3390/rs9010093.

Martina Franz, David Simpson, Almut Arneith, and Sönke Zaehle. Development and evaluation of an ozone deposition scheme for coupling to a terrestrial biosphere model. *Biogeosciences*, 14, 45–71, 2017.

2016

Raoult, Nina M; Jupp, Tim E; Cox, Peter M; Luke, Catherine M. Land-surface parameter optimisation using data assimilation techniques: the adJULES system V1.0. *Geoscientific Model Development; Katlenburg-Lindau* 9.8 (2016): 2833-2852.

Hylke E. Beck, Albert I.J.M. van Dijk, Vincenzo Levizzani, Jaap Schellekens, Diego G. Miralles, Brecht Martens, and Ad de Roo. MSWEP: 3-hourly 0.25° global gridded precipitation (1979–2015) by merging gauge, satellite, and reanalysis data. *Hydrol. Earth Syst. Sci. Discuss.*, doi:10.5194/hess-2016-236, 2016.

McCabe, MF, A Ershadi, C Jimenez, Diego Miralles, D Michel, and EF Wood. 2016. “The GEWEX LandFlux Project: Evaluation of Model Evaporation Using Tower-based and Globally Gridded Forcing Data.” *Geoscientific Model Development* 9 (1): 283–305.

Musavi, T., Migliavacca, M., van de Weg, M. J., Kattge, J., Wohlfahrt, G., van Bodegom, P. M., Reichstein, M., Bahn, M., Carrara, A., Domingues, T. F., Gavazzi, M., Gianelle, D., Gimeno, C., Granier, A., Gruening, C., Havránková, K., Herbst, M., Hrynkiw, C., Kalhori, A., Kaminski, T., Klumpp, K., Kolari, P., Longdoz, B., Minerbi, S., Montagnani, L., Moors, E., Oechel, W. C., Reich, P. B., Rohatyn, S., Rossi, A., Rotenberg, E., Varlagin, A., Wilkinson, M., Wirth, C. and Mahecha, M. D. (2016), Potential and limitations of inferring ecosystem photosynthetic capacity from leaf functional traits. *Ecol Evol*, 6: 7352–7366. doi:10.1002/ece3.2479.

Chen, Y., Ryder, J., Bastrikov, V., McGrath, M. J., Naudts, K., Otto, J., Ottlé, C., Peylin, P., Polcher, J., Valade, A., Black, A., Elbers, J. A., Moors, E., Foken, T., van Gorsel, E., Haverd, V., Heinesch, B., Tiedemann, F., Knohl, A., Launiainen, S., Loustau, D., Ogée, J., Vessala, T., and Luyssaert, S.: Evaluating the performance of land surface model ORCHIDEE-CAN v1.0 on water and energy flux estimation with a single- and multi-layer energy budget scheme, *Geosci. Model Dev.*, 9, 2951–2972, doi:10.5194/gmd-9-2951-2016, 2016.

Harper, Anna B;Cox, Peter M;Wiltshire, Andy J;Jones, Chris D;Mercado, Lina M;Atkin, Owen K;Reich, Peter B;Soudzilovskaia, Nadjeda A. Improved representation of plant functional types and physiology in the Joint UK Land Environment Simulator (JULES v4.2) using plant trait information. *Journal Geoscientific Model Development*. Volume 9. Issue 7. Page 2415, 2016.

K. Ziemblińska, M. Urbaniak, B.H. Chojnicki, T.A. Black, S. Niu, J. Olejnik, Net ecosystem productivity and its environmental controls in a mature Scots pine stand in north-western Poland, *Agricultural and Forest Meteorology*, Volumes 228–229, 15 November 2016, Pages 60-72, ISSN 0168-1923.

Rahul Raj et al. Uncertainty analysis of gross primary production partitioned from net ecosystem exchange measurements.

Vanessa Haverd, Matthias Cuntz, Lars P. Nieradzic, and Ian N. Harman. Improved representations of coupled soil–canopy processes in the CABLE land surface model (Subversion revision 3432). *Geosci. Model Dev.*, 9, 3111–3122, 2016. *Biogeosciences*, 13, 1409–1422, 2016

M. Balzarolo, S. Vicca, A.L. Nguy-Robertson, D. Bonal, J.A. Elbers, Y.H. Fua, T. Grünwald, J.A. Horemans, D. Papale, J. Peñuelas, A. Suyker, F. Veroustraete. Matching the phenology of Net Ecosystem Exchange and vegetation indices estimated with MODIS and FLUXNET in-situ observations. *Remote Sensing of Environment* 174 (2016) 290–300.

Flach M., Lange H., Foken T., Hauhs M. (2016) Recurrence Analysis of Eddy Covariance Fluxes. In: Webber, Jr. C., Ioana C., Marwan N. (eds) *Recurrence Plots and Their Quantifications: Expanding Horizons*. Springer Proceedings in Physics, vol 180. Springer, Cham

Emma E. Daniels (2016). Land surface impacts on precipitation in the Netherlands, 160 pages, PhD thesis, Wageningen University, Wageningen, NL. With references, with summaries in Dutch and English ISBN 978-94-6257-667-4 DOI 10.18174/376094

Berckmans, Julie; Giot, Olivier; De Troch, Rozemien; Rafiq Hamdi; Ceulemans, Reinhart; et al. Reinitialised versus continuous regional climate simulations using ALARO-0 coupled to the land surface model SURFEXv5. *Geoscientific Model Development*; Katlenburg-Lindau10.1 (2017): 223-238.

2015

Nicholas G. Smith, Sergey L. Malyshev, Elena Shevliakova, Jens Kattge and Jeffrey S. Dukes. Foliar temperature acclimation reduces simulated carbon sensitivity to climate. *Nature Climate Change* 2015, DOI: 10.1038/NCLIMATE2878.

Xiaoli Shia, Dongsheng Zhao, Shaohong Wu, Wenjiao Shi, Erfu Dai, and Wei Wang. Climate change risks for net primary production of ecosystems in China. *HUMAN AND ECOLOGICAL RISK ASSESSMENT* 2016, VOL. 22, NO. 4, 1091–1105

D. N. Bozhinova (2015) Interpreting plant-sampled $^{14}\text{CO}_2$ to study regional anthropogenic CO_2 signals in Europe. Thesis WUR.

Rakovec, O., et al. 2015: Multiscale and multivariate evaluation of water fluxes and states over European river basins. *J. Hydrometeor.* doi:10.1175/JHM-D-15-0054.1, in press.

Katrin Fleischer, et al. Low historical nitrogen deposition effect on carbon sequestration in the boreal zone. *Journal of Geophysical Research: Biogeosciences*, DOI: 10.1002/2015JG002988.

P. Kountouris, et al. An objective prior error quantification for regional atmospheric inverse applications. *Biogeosciences Discuss.*, 12, 9393–9441, 2015.

Anav, A., et al. (2015), Spatiotemporal patterns of terrestrial gross primary production: A review, *Rev. Geophys.*, 53, 785–818, doi:10.1002/2015RG000483.

George P. Petropoulos, Gareth Ireland, Hywel M. Griffiths, Marc C. Kennedy, Pavlos Ioannou-Katidis and Dionissios P. Kalivas. Extending the Global Sensitivity Analysis of the SimSphere model in the Context of its Future Exploitation by the Scientific Community. *Water* 2015, 7(5), 2101-2141; doi:10.3390/w7052101.

R. Raj, N. A. S. Hamm, C. van der Tol, and A. Stein. Uncertainty analysis of gross primary production partitioned from net ecosystem exchange measurements. *Biogeosciences Discuss.*, 12, 13967–14002, 2015.

Gianluca Tramontana, Kazuhiro Ichii, Gustau Camps-Valls, Enrico Tomelleri, Dario Papale. Uncertainty analysis of gross primary production upscaling using Random Forests, remote sensing and eddy covariance data. *Remote Sensing of Environment* Volume 168, October 2015, Pages 360–373.

Saúl Molina-Herrera, Rüdiger Grote, Ignacio Santabárbara-Ruiz, David Kraus, Steffen Klatt, Edwin Haas, Ralf Kiese and Klaus Butterbach-Bahl. Simulation of CO_2 Fluxes in European Forest Ecosystems with the Coupled Soil-Vegetation Process Model “LandscapeDNDC”. *Forests* 2015, 6(6), 1779-1809; doi:10.3390/f6061779.

Ershadi, A., et al. "Impact of model structure and parameterization on Penman–Monteith type evaporation models." *Journal of Hydrology* 525 (2015): 521-535.

Baldocchi, Dennis, Cove Sturtevant, and Fluxnet Contributors. "Does day and night sampling reduce spurious correlation between canopy photosynthesis and ecosystem respiration?." *Agricultural and Forest Meteorology* 207 (2015): 117-126.

Best, M. J., et al. "The plumbing of land surface models: benchmarking model performance." *Journal of Hydrometeorology* 2015 (2015).

Chuter, Anna M., et al. "A dynamical systems analysis of the data assimilation linked ecosystem carbon (DALEC) models." *Chaos: An Interdisciplinary Journal of Nonlinear Science* 25.3 (2015): 036401.

Danielewska, Alina, Marek Urbaniak, and Janusz Olejnik. "Growing season length as a key factor of cumulative net ecosystem exchange over the pine forest ecosystems in Europe." *International Agrophysics* 29.2 (2015): 129-135.

Groote, T. De, et al. "ORCHIDEE-SRC v1. 0: an extension of the land surface model ORCHIDEE for simulating short rotation coppice poplar plantations." *Geoscientific Model Development* 8.5 (2015): 1461-1471.

Ireland, Gareth, et al. "Addressing the ability of a land biosphere model to predict key biophysical vegetation characterisation parameters with Global Sensitivity Analysis." *Environmental Modelling & Software* 65 (2015): 94-107.

Jacobs, Cor, et al. "Assessment of evaporative water loss from Dutch cities." *Building and Environment* 83 (2015): 27-38.

Petropoulos, George P., et al. "Extending the Global Sensitivity Analysis of the SimSphere model in the Context of its Future Exploitation by the Scientific Community." *Water* 7.5 (2015): 2101-2141.

Tan, Zheng-Hong, et al. "Interannual and seasonal variability of water use efficiency in a tropical rainforest: Results from a 9 year eddy flux time series." *Journal of Geophysical Research: Atmospheres* (2015).

Van Damme, M., et al. "Towards validation of ammonia (NH₃) measurements from the IASI satellite." *Atmospheric Measurement Techniques* 8.3 (2015): 1575-1591.

Vermeulen, M. H., et al. "Modelling short-term variability in carbon and water exchange in a temperate Scots pine forest." *Earth System Dynamics Discussions* 6.1 (2015): 267-315.

Wu, Xiaocui, et al. "Performance of Linear and Nonlinear Two-Leaf Light Use Efficiency Models at Different Temporal Scales." *Remote Sensing* 7.3 (2015): 2238-2278.

2014

Anayah, F. M., and J. J. Kaluarachchi. "Improving the complementary methods to estimate evapotranspiration under diverse climatic and physical conditions." *Hydrology and Earth System Sciences Discussions* 10.11 (2013): 13595-13634.

Bozhinova, D., et al. "Simulating the integrated summertime $\Delta 14 \text{ CO}_2$ signature from anthropogenic emissions over Western Europe." *Atmospheric Chemistry and Physics* 14.14 (2014): 7273-7290.

Floris Verhagen, Teun Spek, Flip Witte, Bernard Voortman, Eddy Moors, Erik Querner, Gé van den Eertwegh en Jan van Bakel. *Begrijpen we het watersysteem? STROMINGEN 20 (2014), NUMMER 3.*

Braakhekke, Maarten C., et al. "The use of radiocarbon to constrain current and future soil organic matter turnover and transport in a temperate forest." *Journal of Geophysical Research: Biogeosciences* 119.3 (2014): 372-391.

Burri, S., et al. "The impact of extreme summer drought on the short-term carbon coupling of photosynthesis to soil CO_2 efflux in a temperate grassland." (2014).

Coenders-Gerrits, Miriam, et al. "Measuring forest evaporation and transpiration rates with fibre optic temperature sensing." *EGU General Assembly Conference Abstracts*. Vol. 16. 2014.

Daniels, E. E., et al. "Spatial precipitation patterns and trends in The Netherlands during 1951–2009." *International Journal of Climatology* 34.6 (2014): 1773-1784.

Ershadi, A., et al. "Multi-site evaluation of terrestrial evaporation models using FLUXNET data." *Agricultural and Forest Meteorology* 187 (2014): 46-61.

Esmailabadi, Ali Ershadi. *Evapotranspiration: Application, Scaling and Uncertainty*. Diss. University of New South Wales, Sydney, Australia, 2014.

Joiner, J., et al. "The seasonal cycle of satellite chlorophyll fluorescence observations and its relationship to vegetation phenology and ecosystem atmosphere carbon exchange." *Remote Sensing of Environment* 152 (2014): 375-391.

Leclerc, Monique Y., and Thomas Foken. "Practical Applications of Footprint Techniques." *Footprints in Micrometeorology and Ecology*. Springer Berlin Heidelberg, 2014. 199-224.

Mahoney, Craig, et al. "Slope Estimation from ICESat/GLAS." *Remote Sensing* 6.10 (2014): 10051-10069.

Mallick, Kaniska, et al. "A Surface Temperature Initiated Closure (STIC) for surface energy balance fluxes." *Remote Sensing of Environment* 141 (2014): 243-261.

Mustafa, Yaseen T., Valentyn A. Tolpekin, and Alfred Stein. "Improvement of Spatio-temporal Growth Estimates in Heterogeneous Forests Using Gaussian Bayesian Networks." *Geoscience and Remote Sensing, IEEE Transactions on* 52.8 (2014): 4980-4991.

Ruben Caljé, Frans Schaars, Joost Heijkers. "Vergelijking van enkele schattingsmethoden voor de actuele verdamping." Report 18 (2014) stowa.nl.

Otto, J., et al. "Forest summer albedo is sensitive to species and thinning: how should we account for this in Earth system models?." (2014).

Petropoulos, G. P., et al. "SimSphere model sensitivity analysis towards establishing its use for deriving key parameters characterising land surface interactions." *Geoscientific Model Development* 7.5 (2014): 1873-1887.

Stap, Lennert B., et al. "Modeled contrast in the response of the surface energy balance to heat waves for forest and grassland." *Journal of Hydrometeorology* 15.3 (2014): 973-989.

Verhagen, Floris, et al. "Begrijpen we het watersysteem?." Sprengenbeken.nl.

Wei, Suhua, et al. "Data-based perfect-deficit approach to understanding climate extremes and forest carbon assimilation capacity." *Environmental Research Letters* 9.6 (2014): 065002.

2013

Braakhekke, M. C., Wutzler, T., Beer, C., Kattge, J., Schrumpf, M., Ahrens, B., et al. (2013). Modeling the vertical soil organic matter profile using Bayesian parameter estimation. *Biogeosciences*, 10, 399-420. doi:10.5194/bg-10-399-2013.

Broquet, G., et al. "Regional inversion of CO₂ ecosystem fluxes from atmospheric measurements: reliability of the uncertainty estimates." *Atmospheric Chemistry and Physics* 13.17 (2013): 9039-9056.

Ceulemans, R., et al. "Ecophysiological Determinants." *Fluxes of Carbon, Water and Energy of European Forests* 163 (2013): 71.

Chuter, Ann M. A Qualitative Analysis of the Data Assimilation Linked Ecosystem Carbon Model, DALEC. Diss. University of Surrey, 2013.

Elbers, Jan, et al. "Inter-annual variability of carbon exchange and extreme events at the Loobos pine forest." *EGU General Assembly Conference Abstracts*. Vol. 15. 2013.

Exbrayat, J-F., et al. "Sensitivity of net ecosystem exchange and heterotrophic respiration to parameterization uncertainty." *Journal of Geophysical Research: Atmospheres* 118.4 (2013): 1640-1651.

Granier, A., et al. "A Model-Based Study of Carbon Fluxes at Ten European Forest Sites." *Fluxes of Carbon, Water and Energy of European Forests* 163 (2013): 151.

Holmes, Thomas RH, et al. "Enhancing model-based land surface temperature estimates using multiplatform microwave observations." *Journal of Geophysical Research: Atmospheres* 118.2 (2013): 577-591.

Van den Hoof, Catherine, et al. "Improved evaporative flux partitioning and carbon flux in the land surface model JULES: Impact on the simulation of land surface processes in temperate Europe." *Agricultural and Forest Meteorology* 181 (2013): 108-124.

Kaminski, T., et al. "FastOpt." Poster.

Trevor F. Keenan, David Y. Hollinger, Gil Bohrer, Danilo Dragoni, J. William Munger, Hans Peter Schmid, Andrew D. Richardson. Increase in forest water-use efficiency as atmospheric carbon dioxide concentrations rise. *Nature* 499, 324–327, doi:10.1038/nature12291.

ter Maat, H. W., et al. "Exploring the impact of land cover and topography on rainfall maxima in the Netherlands." *Journal of Hydrometeorology* 14.2 (2013): 524-542.

Melaas, Eli K., et al. "Using FLUXNET data to improve models of springtime vegetation activity onset in forest ecosystems." *Agricultural and Forest Meteorology* 171 (2013): 46-56.

Moreira, D. S., et al. "Coupling between the JULES land-surface scheme and the CCATT-BRAMS atmospheric chemistry model (JULES-CCATT-BRAMS1. 0): applications to numerical weather forecasting and the CO₂ budget in South America." *Geoscientific Model Development* 6.4 (2013): 1243-1259.

Petropoulos, George P., Toby N. Carlson, and Hywel M. Griffiths. "Turbulent Fluxes of Heat and Moisture at the Earth's Land Surface: Importance, Controlling Parameters, and Conventional Measurement Techniques." *Remote Sensing of Energy Fluxes and Soil Moisture Content* (2013): 1.

Vaccari, Simone, et al. "Bias in lidar-based canopy gap fraction estimates." *Remote Sensing Letters* 4.4 (2013): 391-399.

Wißkirchen, K., et al. "Quantifying the carbon uptake by vegetation for Europe on a 1 km² resolution using a remote sensing driven vegetation model." *Geoscientific Model Development* 6.5 (2013): 1623-1640.

Zielis, S., et al. "Significance of previous year's weather for forest net ecosystem productivity." *AGU Fall Meeting Abstracts*. Vol. 1. 2013.

2012

Abramowitz, Gab, Laure Pouyanné, and Hoori Ajami. "On the information content of surface meteorology for downward atmospheric long-wave radiation synthesis." *Geophysical Research Letters* 39.4 (2012).

Anayah, Fathi MA. Improving complementary methods to predict evapotranspiration for data deficit conditions and global applications under climate change. Diss. Utah State University, 2012.

Bascietto, Marco, et al. "Biometric assessment of aboveground carbon pools and fluxes in three European forests by Randomized Branch Sampling." *Forest Ecology and Management* 267 (2012): 172-181.

Bequet, Raphael, et al. "Influence of stand, site and meteorological variables on the maximum leaf area index of beech, oak and Scots pine." *European Journal of Forest Research* 131.2 (2012): 283-295.

Bloom, A. A., and M. D. Williams. "Estimating Large-Scale Carbon Fluxes from Remotely-Sensed Biomass and Vegetation Indices." *AGU Fall Meeting Abstracts*. Vol. 1. 2012.

Frédéric Chevallier, Tao Wang, Philippe Ciais, Fabienne Maignan, Marc Bocquet, Altaf Arain, Alessandro Cescatti, Jiquan Chen, A. J. Dolman, Beverly E. Law, Hank Margolis, Leonardo Montagnani, Eddy Moors. What eddy-covariance measurements tell us about prior land flux errors in CO₂-flux inversion schemes. *GLOBAL BIOGEOCHEMICAL CYCLES*, VOL. 26, GB1021, doi:10.1029/2010GB003974, 2012.

Cho, Jaeil, et al. "Testing the hypothesis on the relationship between aerodynamic roughness length and albedo using vegetation structure parameters." *International journal of biometeorology* 56.2 (2012): 411-418.

Chuter, Anna M., et al. "Tipping Points for Forests, Using the Data Assimilation Linked Ecosystem Carbon Model, DALEC." (2012).

Gellens-Meulenberghs, Françoise, Nicolas Ghilain, and Alirio Arboleda. "Land surface evapotranspiration as seen from Meteosat Second Generation Satellites: LSA-SAF developments and perspectives." *Geoscience and Remote Sensing Symposium (IGARSS), 2012 IEEE International. IEEE*, 2012.

Hashimoto, Hirofumi, et al. "Exploring simple algorithms for estimating gross primary production in forested areas from satellite data." *Remote Sensing* 4.1 (2012): 303-326.

Los, S. O., et al. "Vegetation height and cover fraction between 60 S and 60 N from ICESat GLAS data." *Geoscientific Model Development* 5.2 (2012): 413-432.

Meesters, AGCA, Tolk, LF, Peters, W, Hutjes, RWA, Vellinga, OS, Elbers, JA, Vermeulen, AT, van der Laan, S, Neubert, REM, Meijer, HAJ & Dolman, AJ 2012, 'Inverse carbon dioxide flux estimates for the Netherlands' *Journal of geophysical research-Atmospheres*, vol 117, no. 6105, 20306, pp. D20306-1-D20306-13., 10.1029/2012JD017797.

Eddy Moors, Han Dolman, Jan Elbers, Arjan Hensen, Jan Duyzer, Petra Kroon, Elmar Veenendaal, Ko van Huissteden, Fred Bosveld, Cor Jacobs, Wilma Jans, Peter Kuikman, Linda Nol, Christy van Beek. *Integrated observations and modelling of greenhouse gas budgets at the ecosystem level in The Netherlands. Synthesis report ME01. KvR 055/12. 2012.*

Mustafa, Y. T., A. Stein, and V. A. Tolpekin. "Gaussian bayesian network modeling to improve spatial growth estimates of heterogeneous forests."

Naipal, V., A. J. Segers, and W. Peters. "Simulation of CO₂ in The Netherlands, using the chemistry transport model LE." (2012).

Niu, Shuli, et al. "Thermal optimality of net ecosystem exchange of carbon dioxide and underlying mechanisms." *New Phytologist* 194.3 (2012): 775-783.

Richardson, Andrew D., et al. "Uncertainty quantification." *Eddy Covariance. Springer Netherlands*, 2012. 173-209.

Ryu, Youngryel, et al. "On the temporal upscaling of evapotranspiration from instantaneous remote sensing measurements to 8-day mean daily-sums." *Agricultural and Forest Meteorology* 152 (2012): 212-222.

Trotta, Carlo. "Impatto dello schema di post processamento dei dati eddy covariance nella stima del bilancio del carbonio degli ecosistemi terrestri." (2012).

Vermeulen, M. H., B. Kruijt, and P. Kabat. "Modelling short term variability in carbon and water exchange in a Dutch pine forest." *EGU General Assembly Conference Abstracts*. Vol. 14. 2012.

Wharton, S., et al. "Old-growth CO₂ flux measurements reveal high sensitivity to climate anomalies across seasonal, annual and decadal time scales." *Agricultural and Forest Meteorology* 161 (2012): 1-14.

Wu, Haoran, et al. "Estimation of clear-sky land surface longwave radiation from MODIS data products by merging multiple models." *Journal of Geophysical Research: Atmospheres* (1984–2012) 117.D22 (2012).

Yao, Yunjun, et al. "Satellite detection of increases in global land surface evapotranspiration during 1984–2007." *International Journal of Digital Earth* 5.4 (2012): 299-318.

2011

Anav, A., et al. "Impact of tropospheric ozone on the Euro-Mediterranean vegetation." *Global Change Biology* 17.7 (2011): 2342-2359.

Balzarolo, Manuela, et al. "Ground-based optical measurements at European flux sites: a review of methods, instruments and current controversies." *Sensors* 11.8 (2011): 7954-7981.

M. C. Braakhekke, T. Wutzler, M. Reichstein, J. Kattge, C. Beer, M. Schrumpf, I. Schöning, M. R. Hoosbeek, B. Kruijt and P. Kabat. Modeling the vertical soil organic matter profile using 210Pbex measurements and Bayesian inversion. *Biogeosciences Discuss.*, 8, 7257-7312, 2011.

Elbers, J. A., et al. "Assessing the uncertainty of estimated annual totals of net ecosystem productivity: A practical approach applied to a mid latitude temperate pine forest." *Agricultural and Forest Meteorology* 151.12 (2011): 1823-1830.

Flechard, C.R., E. Nemitz, R. I. Smith, D. Fowler, A. T. Vermeulen, A. Bleeker, J. W. Erisman, D. Simpson, L. Zhang, Y. S. Tang, and M. A. Sutton, 2011. Dry deposition of reactive nitrogen to European ecosystems: a comparison of inferential models across the NitroEurope network. *Atmos. Chem. Phys.*, 11, 2703–2728.

Ghilain, N., A. Arboleda, and F. Gellens-Meulenberghs. "Evapotranspiration modelling at large scale using near-real time MSG SEVIRI derived data." *Hydrology and Earth System Sciences* 15.3 (2011): 771-786.

Groenendijk, M., et al. (2011), Seasonal variation of photosynthetic model parameters and leaf area index from global Fluxnet eddy covariance data, *J. Geophys. Res.*, 116, G04027, doi:10.1029/2011JG001742.

Groenendijk, M.; Dolman, A.J.; Molen, M.K. van der; Leuning, R.; Arneth, A.; Delpierre, N.; Gash, J.H.C.; Lindroth, A.; Richardson, A.D.; Verbeeck, H.; Wohlfahrt, G. Assessing parameter variability in a photosynthesis model within and between plant functional types using global Fluxnet eddy covariance data. *Agricultural and Forest Meteorology* 151 (2011)1. - ISSN 0168-1923 - p. 22 - 38.

Horn, J. E., and K. Schulz. "Identification of a general light use efficiency model for gross primary production." *Biogeosciences* 8.4 (2011): 999-1021.

Jones, Michael Bevan. "Dissolved carbon leaching from soil is a crucial component of the net ecosystem carbon balance." (2011).

L. F. Tolk, A. J. Dolman, A. G. C. A. Meesters, and W. Peters. A comparison of different inverse carbon flux estimation approaches for application on a regional domain. *Atmos. Chem. Phys.*, 11, 10349–10365, 2011.

T. Kaminski, W. Knorr, M. Scholze, N. Gobron, B. Pinty, R. Giering and P.-P. Mathieu. Consistent assimilation of MERIS FAPAR and atmospheric CO₂ into a terrestrial vegetation model and interactive mission benefit analysis. *Biogeosciences Discuss.*, 8 , 10761-10795, 2011.

Kindler, Reimo, et al. "Dissolved carbon leaching from soil is a crucial component of the net ecosystem carbon balance." *Global Change Biology* 17.2 (2011): 1167-1185.

Kljun, N., et al. "Airborne LiDAR and Hyperspectral Data for Flux Tower Sites."

Lasslop, Gitta. "Model data fusion for terrestrial biosphere models with carbon and water cycle observations". Dissertation. Max-Planck-Institut für Biogeochemie.

Los, S. O., et al. "Vegetation height products between 60° S and 60° N from ICESat GLAS data." *Geoscientific Model Development Discussions* 4.3 (2011): 2327-2363.

Le Maire, Gueric, Hendrik Davi, and Eric Dufrene. "CASTANEA: A Forest Process-Based Model of Carbon and Water Balances." *Modelling Agroforestry Systems*: 51.

Niu, Shuli, et al. "Seasonal hysteresis of net ecosystem exchange in response to temperature change: patterns and causes." *Global Change Biology* 17.10 (2011): 3102-3114.

Sobrino, J. A., et al. "Evaluation of the DART 3D model in the thermal domain using satellite/airborne imagery and ground-based measurements." *International journal of remote sensing* 32.22 (2011): 7453-7477.

Timmermans, Joris. "Coupling optical and thermal directional radiative transfer to biophysical processes in vegetated canopies." Enschede, University of Twente Faculty of Geo-Information and Earth Observation (ITC), ITC Dissertation 193 (2011).

Tolk, L. F., et al. "A comparison of different inverse carbon flux estimation approaches for application on a regional domain." *Atmospheric Chemistry and Physics* 11.20 (2011): 10349-10365.

Verstraeten, Willem W., et al. *Remotely sensed soil moisture integration in an ecosystem carbon flux model. The spatial implication.* Springer Netherlands, 2011.

Yao, Yunjun, et al. "Evaluation of EDI derived from the exponential evapotranspiration model for monitoring China's surface drought." *Environmental Earth Sciences* 63.2 (2011): 425-436.

Yao, Yunjun, et al. "Monitoring global land surface drought based on a hybrid evapotranspiration model." *International Journal of Applied Earth Observation and Geoinformation* 13.3 (2011): 447-457.

2010

Alton, Paul, and Per Bodin. "A comparative study of a multilayer and a productivity (light-use) efficiency land-surface model over different temporal scales." *Agricultural and forest meteorology* 150.2 (2010): 182-195.

Anav, Alessandro, et al. "A validation of heat and carbon fluxes from high-resolution land surface and regional models." *Journal of Geophysical Research: Biogeosciences* (2005–2012) 115.G4 (2010).

Braakhekke, Maarten, et al. "Mechanistic modeling of the vertical soil organic matter profile in terrestrial ecosystems." *EGU General Assembly Conference Abstracts*. Vol. 12. 2010.

Franssen, HJ Hendricks, et al. "Energy balance closure of eddy-covariance data: A multisite analysis for European FLUXNET stations." *Agricultural and forest meteorology* 150.12 (2010): 1553-1567.

Garbulsky, Martín F., et al. "Patterns and controls of the variability of radiation use efficiency and primary productivity across terrestrial ecosystems." *Global Ecology and Biogeography* 19.2 (2010): 253-267.

Tagir G. Gilmanov, L. Aires, Z. Barcza, V. S. Baron, L. Belelli, J. Beringer, D. Billesbach, D. Bonal, J. Bradford, E. Ceschia, D. Cook, C. Corradi, A. Frank, D. Gianelle, C. Gimeno, T. Gruenwald, Haiqiang Guo, N. Hanan, L. Haszpra, J. Heilman, A. Jacobs, M. B. Jones, D. A. Johnson, G. Kiely, Shengong Li, V. Magliulo, E. Moors, Z. Nagy, M. Nasyrov, C. Owensby, K. Pinter, C. Pio, M. Reichstein, M. J. Sanz, R. Scott, J. F. Soussana, P. C. Stoy, T. Svejcar, Z. Tuba and Guangsheng Zhou. "Productivity, Respiration, and Light-Response Parameters of World Grassland and Agroecosystems Derived from Flux-Tower Measurements" *Rangeland Ecology & Management* Vol. 63, No. 1, *Global Grazinglands and Greenhouse Gas Fluxes* (Jan., 2010), pp. 16-39

Hensen, Arjan, et al. "Meten van broeikasgassen in het landschap." *Landschap: tijdschrift voor Landschapsecologie en Milieukunde* 27.2 (2010): 57-65.

Hutjes, R. W. A., et al. "Dis-aggregation of airborne flux measurements using footprint analysis." *Agricultural and Forest Meteorology* 150.7 (2010): 966-983.

Kaminski, Thomas, et al. "Assimilation of MERIS FAPAR into a Terrestrial Vegetation Model and Mission Design." *Proceedings of ESA, iLEAPS, EGU joint Conference, Frascati, Italy, European Space Agency*. 2010.

Reimo Kindler, Jan Siemens, Klaus Kaiser, David Christopher Walmsley, Christian Bernhofer, et al.. Dissolved carbon leaching from soil is a crucial component of the net ecosystem carbon balance. *Global Change Biology*, Wiley-Blackwell, 2010, 17 (2), pp.1167.

Knorr, W., et al. "Carbon cycle data assimilation with a generic phenology model." *Journal of Geophysical Research: Biogeosciences* (2005–2012) 115.G4 (2010).

Le Maire, Gueric, et al. "Detecting the critical periods that underpin interannual fluctuations in the carbon balance of European forests." *Journal of Geophysical Research: Biogeosciences* (2005–2012) 115.G3 (2010).

Mahecha, M. D., Reichstein, M., Carvalhais, N., Lasslop, G., Lange, H., Seneviratne, S. I., Vargas, R., Ammann, C., Arain, M. A., Cescatti, A., Janssens, I. A., Migliavacca, M., Montagnani, L., and Richardson, A. D.: Global convergence in the temperature sensitivity of respiration at ecosystem level, *Science*, 329, 838–840, 2010.

Mahecha, Miguel D., et al. "Comparing observations and process-based simulations of biosphere-atmosphere exchanges on multiple timescales." *Journal of Geophysical Research: Biogeosciences* (2005–2012) 115.G2 (2010).

Suzuki, Takashi, and Kazuhito Ichii. "Evaluation of a terrestrial carbon cycle submodel in an Earth system model using networks of eddy covariance observations." *Tellus B* 62.5 (2010): 729-742.

Teuling, Adriaan J., et al. "Contrasting response of European forest and grassland energy exchange to heatwaves." *Nature Geoscience* 3.10 (2010): 722-727.

Ter Maat, H. W., et al. "Simulating carbon exchange using a regional atmospheric model coupled to an advanced land-surface model." *Biogeosciences* 7.8 (2010): 2397-2417.

Willem W. Verstraeten, Frank Veroustraete, Wolfgang Wagner, Tom Van Roey, Walter Heyns, Sara Verbeiren, Jan Feyen. Remotely sensed soil moisture integration in an ecosystem carbon flux model. The spatial implication. *Climatic Change*, DOI 10.1007/s10584-010-9920-8.

Chuxiang Yi, Cor Jacobs, Eddy Moors, Jan Elbers et al. Climate control of terrestrial carbon exchange. *Environ. Res. Lett.* 5 (2010) 034007 (10pp).

2009

E. D. Schulze, S. Luysaert, P. Ciais, A. Freibauer, I. A. Janssens et al. Importance of methane and nitrous oxide for Europe's terrestrial greenhouse-gas balance. *Nature Geoscience* 2, 842 - 850 (2009) Published online: 22 November 2009 | Corrected online: 13 December 2009 | doi:10.1038/ngeo686

Anupam Badola. Validation of Surface Energy Balance System (SEBS) over forest land cover and sensitivity analysis of the model. PhD Thesis, 2009, ITC.

Beer, C., Ciais, P., Reichstein, M., Baldocchi, D., Law, B.E., Papale, D., Soussana, J.-F., Ammann, C., Buchmann, N. Frank, D., Gianelle, D., Janssens, I.A., Knohl, A., Köstner, B., Moors, E., Rouspard, O., Verbeeck, H., Vesala, T., Williams, C.A. and Wohlfahrt, G. (2009) Temporal and among-site

variability of inherent water use efficiency at the ecosystem level. *Global Biogeochemical Cycles*, 23, GB2018.

Buzek, F. T. Paces and I. Jackova, 2009. Production of dissolved organic carbon in forest soils along the north–south European transect. *Applied Geochemistry*, 24: 1686–1701.

Clark, Douglas; Harris, Phil. 2009 Joint UK Land Environment Simulator (JULES) Version 2.1 User Manual. NERC/Centre for Ecology & Hydrology, 119pp. (Unpublished report)

Damm Alexander, Jan Elbers, Andre Erler, Beniamino Gioli, Karim Hamdi, Ronald Hutjes, Martina Kosvancova, Michele Meroni, Franco Miglietta, André Moersch, Jose Moreno, Anke Schickling, Ruth Sonnenschein, Thomas Udelhoven, Sebastian van der Linden, Christian van der Tol, Patrick Hostert, Uwe Rascher, 2009. Remote sensing of sun induced fluorescence to improve modelling of diurnal courses of gross primary production (GPP). *Global Change Biology*, doi: 10.1111/j.1365-2486.2009.01908.x

Droogers, P. (2009). Verbetering bepaling actuele verdamping voor het strategisch waterbeheer : definitiestudie. Rapport / Stowa (2009 11). ISBN 9789057734281.

C.M.J. Jacobs, E.J. Moors, J.A. Elbers, W.W.P. Jans, and B. Kruijt. Does inter-annual variability of Net Ecosystem Exchange exceed uncertainty? *Geophysical Research Abstracts*, Vol. 11, EGU2009-12095, 2009.

Lauvaux, T., B. Gioli, C. Sarrat, P. J. Rayner, P. Ciais, F. Chevallier, J. Noilhan, F. Miglietta, Y. Brunet, E. Ceschia, H. Dolman, J. A. Elbers, C. Gerbig, R. Hutjes, N. Jarosz, D. Legain, M. Uliasz, 2009. Bridging the gap between atmospheric concentrations and local ecosystem measurements., *GEOPHYSICAL RESEARCH LETTERS*, VOL. 36, L19809, 5 PP., 2009, doi:10.1029/2009GL039574

Fox Andrew, Mathew Williams, Andrew D. Richardson, David Cameron, Jeffrey H. Gove, Tristan Quaife, Daniel Ricciuto, Markus Reichstein, Enrico Tomelleri, Cathy, M. Trudinger, Mark T. Van Wijk, 2009. The REFLEX project: Comparing different algorithms and implementations for the inversion of a terrestrial ecosystem model against eddy covariance data. *Agricultural and Meteorology*, 149: 1579-1615.

Gitta Lasslop , Markus Reichstein, Dario Papale, Andrew D. Richardson, Almut Arneeth, Alan Barr, Paul Stoy and Georg Wohlfahrt. Separation of net ecosystem exchange into assimilation and respiration using a light response curve approach: critical issues and global evaluation. *Global Change Biology* Volume 16 Issue 1, Pages 187 – 208.

Gorsel Eva, van, Nicolas Delpierre; Ray Leuning; Andy Black; J. William Munger; Steven Wofsy; Marc Aubinet; Christian Feigenwinter; Jason Beringer; Damien Bonal; Baozhang Chen; Jiquan Chen; Robert Clement; Kenneth J Davis; Ankur R Desai; Danilo Dragoni; Sophia Etzold; Thomas Grünwald; Lianhong Gu; Bernhard Heinesch; Lucy R Hutyra; Wilma W Jans; Werner Kutsch; B. E Law; Monique Y Leclerc; Ivan Mammarella; Leonardo Montagnani; Asko Noormets; Corinna Rebmann; Sonia Wharton, 2009. Estimating nocturnal ecosystem respiration from the vertical turbulent flux and change in storage of CO₂. *Agricultural and Forest Meteorology*, 149: 1919-1930.

Kint Vincent, Petra Lasch, Marcus Lindner and Bart Muys, 2009. Multipurpose conversion management of Scots pine towards mixed oak–birch stands. A long-term simulation approach. *Forest Ecology and Management*, 257: 199–214.

Kwast, J. van der, Timmermans, W., Gieske, A., Su, Z., Olioso, A., Jia, L., Elbers, J., Karssenberg, D., and de Jong, S., 2009. Evaluation of the Surface Energy Balance System (SEBS) applied to ASTER imagery with flux-measurements at the SPARC 2004 site (Barrax, Spain), *Hydrol. Earth Syst. Sci. Discuss.*, 6: 1165-1196.

Luyssaert, S., M. Reichstein, E.-D. Schulze, I. A. Janssens, B. E. Law, D. Papale, D. Dragoni, M. L. Goulden, A. Granier, W. L. Kutsch, S. Linder, G. Matteucci, E. Moors, J. W. Munger, K. Pilegaard, M. Saunders and E. M. Falge, 2009. Toward a consistency cross-check of eddy covariance flux–based and biometric estimates of ecosystem carbon balance. *Global Biochemical cycles*, 23(6): 833-845.

Sarrat, C., Noilhan, J., Lacarrere, P., Donier, S., Dolman, A.J., Gerbig, C., Hutjes, R.W.A., Elbers, J.A., Gioli, B., Miglietta, F., Neininger, B., Ciais, P., Ramonet, M., Ceschia, E., Bonnefond, J.M. 2009. Mesoscale modeling of the CO₂ interactions between the surface and the atmosphere applied to the April 2007 CERES field experiment. *Biogeosciences Discussions* 6: 515-544.

Skiba, U., J. Drewer, Y.S. Tang, N. van Dijk, C. Helfter, E. Nemitz, D. Famulari, J.N. Cape, S.K. Jones, M. Twigg, M. Pihlatie, T. Vesala, K.S. Larsen, M.S. Carter, P. Ambus, A. Ibrom, C. Beier, A. Hensen, A. Frumau, J.W. Erisman, N. Brüggemann, R. Gasche, K. Butterbach-Bahl, A. Neftel, C. Spirig, L. Horvath, A. Freibauer, P. Cellier, P. Laville, B. Loubet, E. Magliulo, T. Bertolini, G. Seufert, M. Andersson, G. Manca, T. Laurila, M. Aurela, A. Lohila, S. Zechmeister-Boltenstern, B. Kitzler, G. Schaufler, J. Siemens, R. Kindler, C. Flechard and M.A. Sutton, 2009. Biosphere–atmosphere exchange of reactive nitrogen and greenhouse gases at the NitroEurope core flux measurement sites: Measurement strategy and first data sets. *Agriculture, Ecosystems & Environment*, 133 (3-4): 139-149.

Z. Su, W. J. Timmermans, C. van der Tol, R. J. J. Dost, R. Bianchi, J. A. Gómez, A. House, I. Hajnsek, M. Menenti, V. Magliulo, M. Esposito, R. Haarbrink, F. C. Bosveld, R. Rothe, H. K. Baltink, Z. Vekerdy, J. A. Sobrino, J. Timmermans, P. van Laake, S. Salama, H. van der Kwast, E. Claassen, A. Stolk, L. Jia, E. Moors, O. Hartogensis, and A. Gillespie. 2009. EAGLE 2006 – multi-purpose, multi-angle and multi-sensor in-situ, airborne and space borne campaigns over grassland and forest. *Hydrol. Earth Syst. Sci. Discuss.*, 6, 1797-1841.

Denise Wagner. Climate Change effects on greenhouse gas emissions from Northern European soils. PhD Thesis, 2009, Vienna University.

2008

F. G. Kuglitsch, M. Reichstein, C. Beer, A. Carrara, R. Ceulemans, A. Granier, I. A. Janssens, B. Koestner, A. Lindroth, D. Loustau, G. Matteucci, L. Montagnani, E. J. Moors, D. Papale, K. Pilegaard, S. Rambal, C. Rebmann, E. D. Schulze, G. Seufert, H. Verbeeck, T. Vesala, M. Aubinet, C. Bernhofer, T. Foken, T. Grünwald, B. Heinesch, W. Kutsch, T. Laurila, B. Longdoz, F. Miglietta, M. J. Sanz, and R. Valentini. Characterisation of ecosystem water-use efficiency of European forests from eddy covariance measurements. *Biogeosciences Discuss.*, 5, 4481–4519, 2008.

P.B. Alton. 2008. Reduced carbon sequestration in terrestrial ecosystems under overcast skies compared to clear skies. *Agricultural and Forest Meteorology* Volume 148, Issue 10, 3 September 2008, Pages 1641-1653.

Calvet, J.-C., A.-L. Gibelin, J.-L. Roujean, E. Martin, P. Le Moigne, H. Douville, and J. Noilhan, 2008. Past and future scenarios of the effect of carbon dioxide on plant growth and transpiration for three vegetation types of southwestern France. *Atmos.. Chem. Phys.*, 8: 397-406.

H. W. Ter Maat and R. W. A. Hutjes. 2008. Simulating carbon exchange using a regional atmospheric model coupled to an advanced land-surface model. *Biogeosciences Discuss.*, 5, 4161–4207.

G. Lasslop, M. Reichstein, J. Kattge, and D. Papale. 2008. Influences of observation errors in eddy flux data on inverse model parameter estimation. *Biogeosciences*, 5, 1311–1324.

Casso-Torralba, Paul, Jordi Vilà-Guerau de Arellano, Fred Bosveld, Maria Rosa Soler, Alex Vermeulen, Cindy Werner, Eddy Moors, 2008. Diurnal and vertical variability of the sensible heat and carbon dioxide budgets in the atmospheric surface layer. *Journal of geophysical research*, 113, D12119, doi:10.1029/2007JD009583.

Gockede, M., T. Foken, M. Aubinet, M. Aurela, J. Banza, C. Bernhofer, J. M. Bonnefond, Y. Brunet, A. Carrara, R. Clement, E. Dellwik, J. Elbers, W. Eugster, J. Fuhrer, A. Granier, T. Grunwald, B. Heinesch, I. A. Janssens, A. Knohl, R. Koeble, T. Laurila, B. Longdoz, G. Manca, M. Marek, T. Markkanen, J. Mateus, G. Matteucci, M. Mauder, M. Migliavacca, S. Minerbi, J. Moncrieff, L. Montagnani, E. Moors, J.-M. Ourcival, D. Papale, J. Pereira, K. Pilegaard, G. Pita, S. Rambal, C. Rebmann, A. Rodrigues, E. Rotenberg, M. J. Sanz, P. Sedlak, G. Seufert, L. Siebicke, J. F. Soussana, R. Valentini, T. Vesala, H. Verbeeck, and D. Yakir, 2008. Quality control of CarboEurope flux data – Part 1: Coupling footprint analyses with flux data quality assessment to evaluate sites in forest ecosystems. *Biogeosciences*, 5: 433–450.

Jacobs, C.M.J., E.J. Moors, H.W. Ter Maat, R. Teuling, G. Balsamo, J.-C. Calvet, J. Ettema, M. Lange, B.J.J.M. Van Den Hurk, P. Viterbo, and W. Wergen, 2008. Evaluation of European Land Data Assimilation System (ELDAS) products using in situ observations. *Tellus 60A*: 1023-1037.

Rey, Ana and Paul Jarvis, 2006. Modelling the effect of temperature on carbon mineralization rates across a network of European forest sites (FORCAST). *Global Change Biology*, 12: 1894–1908.

Rey, A., E. Pegoraro and P. G. Jarvis, 2008. Carbon mineralization rates at different soil depths across a network of European forest sites (FORCAST). *European Journal of Soil Science*, 59(6): 1049 – 1062.

Richardson A.D., M.D. Mahecha, E. Falge, J. Kattge, A.M. Moffat, D. Papale, M. Reichstein, V.J. Stauch, B.H. Braswell, G. Churkina, B. Kruijt, D.Y. Hollinger, 2008. Statistical properties of random CO₂ flux measurement uncertainty inferred from model residuals. *Agricultural and Forest Meteorology*, 148(1): 38-50.

van den Hurk, B., J. Ettema, and P. Viterbo, 2008: Analysis of Soil Moisture Changes in Europe during a Single Growing Season in a New ECMWF Soil Moisture Assimilation System. *J. Hydrometeor.*, 9: 116–131.

2007

Sobrino, J.A., Jimenez-Munoz, J.C., Gomez, M., Barella-Ortiz, A., Soria, G., Julien, Y., Zaragoza-Ivora, M.M., Gómez, J.A., de Miguel, E., Jiménez, M., Su, Z., Timmermans, W.J. and ... [et al.] (2007) Application of high - resolution thermal infrared remote sensing to assess land surface temperature and emissivity in different natural environments. In: ISPRS 2007 : Vol. XXXVI, part 7/C50 : proceedings of ISPMSRS'07 : 10th international symposium on physical measurements and spectral signatures in remote sensing, Davos, Switzerland, March 12-14, 2007 / editor M.E. Schaepman, ... [et al.]. International Society for Photogrammetry and Remote Sensing (ISPRS), 2007. 350-354.

E. M. Gusev, O. N. Nasonova. Technique for estimating the dynamics of water and carbon budgets of a coniferous forest ecosystem. *Izvestiya Atmospheric and Oceanic Physics* Volume 43, Number 1, 70-80, DOI: 10.1134/S0001433807010082.

S. Luyssaert, I. A. Janssens, M. Sulkava, D. Papale, A. J. Dolman, M. Reichstein, J. Hollmen, J. G. Martin, T. Suni, T. Vesala, D. Loustau, B. E. Law and E. J. Moors. Photosynthesis drives anomalies in net carbon-exchange of pine forests at different latitudes. *Global Change Biology* (2007) 13, 2110–2127, doi: 10.1111/j.1365-2486.2007.01432.x

Granier, A., M. Reichstein, N. Bréda, I.A. Janssens, E. Falge, P. Ciais, T. Grünwald, M. Aubinet, P. Berbigier, C. Bernhofer, N. Buchmann, O. Facini, G. Grassi, B. Heinesch, H. Ilvesniemi, P. Keronen, A. Knohl, o. B. Köstner, F. Lagergren, A. Lindroth, B. Longdoz, D. Loustau, J. Mateus, L. Montagnanir,, C. Nys, E. Moors, D. Papale, M. Peiffer, K. Pilegaard, G. Pita, J. Pumpanen, S. Rambal, C. Rebmann, A. Rodrigues, G. Seufert, J. Tenhunen, T. Vesala and Q. Wang, 2007. Evidence for soil water control on carbon and water dynamics in European forests during the extremely dry year: 2003. *Agricultural and Forest Meteorology* 143 (1-2): 123-145.

2006

Dario Papale. 2006. The FLUXNET network: a unique tool to better understand and predict global carbon budget. *iLEAPS Newsletter* Issue No. 3 – December 2006.

E. M. Gusev and O. N. Nasonova. Technique for Estimating the Dynamics of Water and Carbon Budgets of a Coniferous Forest Ecosystem. *Izvestiya Atmospheric and Oceanic Physics*, 2007, Vol. 43, No. 1, pp. 70–80.

Ye.M. Gusev and O.N. Nasonova. Modeling the Impact of Climate Change on Hydrological and Carbon Cycle of a Pine Forest Ecosystem. *Geophysical Research Abstracts*, Vol. 8, 00286, 2006.

Voogt, M., B.J.J.M. van den Hurk and C. Jacobs, The ECMWF land surface scheme extended with a photosynthesis and LAI module tested for a coniferous site KNMI publication: WR-06-02, 3/1/2006, pp22.

Venkata R Jogireddy, Peter M Cox, Chris Huntingford, Richard J Harding and Lina Mercado. 2006. An improved description of canopy light interception for use in a GCM land-surface scheme: calibration and testing against carbon fluxes at a coniferous forest. Hadley Centre technical note 63.

Dirmeyer, P.A., Koster, R.D. and Guo, Z., 2006. Do Global Models Properly Represent the Feedback between Land and Atmosphere? *Journal of Hydrometeorology*, 7: 1177-1198.

Bréda, Nathalie, Roland Huc, André Granier and Erwin Dreyer, 2006. Temperate forest trees and stands under severe drought: a review of ecophysiological responses, adaptation processes and long-term consequences. *Ann. For. Sci.*, 63: 625–644.

Davi, H., E. Dufrene, C. Francois, G. Le Maire, D. Loustau, A. Bosc, S. Rambal, A. Granier, E. Moors, 2006. Sensitivity of water and carbon fluxes to climate changes from 1960 to 2100 in European forest ecosystems. *Agricultural and Forest Meteorology* 141: 35–56.

Verstraete, Willem W., Frank Veroustraete, Jan Feyen, 2006. On temperature and water limitation of net ecosystem productivity: Implementation in the C-Fix model. *Ecological modeling*, 199: 4–22.

Jogireddy, V., et al. "An improved description of canopy light interception for use in a GCM land-surface scheme: calibration and testing against carbon fluxes at a coniferous forest." Hadley Centre technical note 63 (2006): 1-13.

2005

Churkina Galina, David Schimel, Bobby H. Braswell and Xiangming Xiao, 2005. Spatial analysis of growing season length control over net ecosystem exchange. *Global Change Biology*, 11: 1777–1787.

Guerric Le Maire, Hendrik Davi, Kamel Soudani, Christophe François, Valérie Le Dantec and Eric Dufrêne, 2005. Modeling annual production and carbon fluxes of a large managed temperate forest using forest inventories, satellite data and field measurements. *Tree Physiology*, 25: 859–872.

Haszpra L, Barcza Z, Davis KJ, Tarczay K., 2005. Long-term tall tower carbon dioxide flux monitoring over an area of mixed vegetation. *Agricultural and Forest Meteorology* 132: 58-77.

Hemming D, Ambus P, Aurela M, Besson C, Black K, Buchmann N, Burllett R, Cescatti A, Clement R, Gross P, Granier A, Gruenwald T, Havrankova K, Janous D, Janssens IA, Knohl A, Koestner B, Kowalski A, Laurila T, Mata C, Marcolla B, Matteucci G, Moncrieff J, Moors EJ, Osborne B, Pereira JS, Pihlatie M, Pilegaard K, Ponti F, Rosova Z, Rossi F, Scartazza A, Vesala T, Yakir D (2005): Pan-European delta C-13 values of air and organic matter from forest ecosystems. *Global Change Biology* 11 (7): 1065-1093

Verstraeten, Willem W. , Frank Veroustraete and Jan Feyen. Estimating evapotranspiration of European forests from NOAA-imagery at satellite overpass time: Towards an operational processing chain for integrated optical and thermal sensor data products. *Remote Sensing of Environment*, Volume 96, Issue 2, 30 May 2005, Pages 256-276.

Altaf Arain, M., and Natalia Restrepo-Coupe. Net ecosystem production in a temperate pine plantation in southeastern Canada. *Agricultural and Forest Meteorology*, Volume 128, Issues 3-4, 28 February 2005, Pages 223-241

Havránková K, Heinesch B, Knohl A, Laurila T, Longdoz B, Marcolla B, Markkanen T, Miglietta F, Moncrieff J, Montagnani L, Moors E, Nardino M, Ourcival J-M, Rambal S, Rannik Ü, Rotenberg E, Sedlak P, Unterhuber G, Vesala T, Yakir D., 2005. Quality analysis applied on eddy covariance measurements at complex forest sites using footprint modelling. *Theoretical and Applied Climatology*, 80: 121-141.

Krinner, G. , Nicolas Viovy, Nathalie de Noblet-Ducoudré, Jérôme Ogée, Jan Polcher, Pierre Friedlingstein, Philippe Ciais, Stephen Sitch, and I. Colin Prentice. A dynamic global vegetation model for studies of the coupled atmosphere-biosphere system. *Global biogeochemical cycles*, Vol. 19, GB1015, 2005

Rebmann, C, Göckede M, Foken T, Aubinet M, Aurela M, Berbigier P, Bernhofer C, Buchmann N, Carrara A, Cescatti A, Ceulemans R, Clement R, Elbers JA, Granier A, Grünwald T, Guyon D, Havránková K, Heinesch B, Knohl A, Laurila T, Longdoz B, Marcolla B, Markkanen T, Miglietta F, Moncrieff J, Montagnani L, Moors E, Nardino M, Ourcival J-M, Rambal S, Rannik Ü, Rotenberg E, Sedlak P, Unterhuber G, Vesala T, Yakir D (2005) Quality analysis applied on eddy covariance measurements at complex forest sites using footprint modelling. *Theoretical and Applied Climatology*, 80, 121-141 (2005)

Xia, Youlong, Zong-Liang Yang, Paul L. Stoffa, and Mrinal K. Sen. Optimal Parameter and Uncertainty Estimation of a Land Surface Model: Sensitivity to Parameter Ranges and Model Complexities. *Advances in Atmospheric Sciences*, Vol. 22, No. 1, 2005, 142–157.

Wolfgang Knorr and Jens Kattge. 2005. Inversion of terrestrial ecosystem model parameter values against eddy covariance measurements by Monte Carlo sampling. *Global Change Biology* Volume 11 Issue 8, Pages 1333 – 1351.

2004

Xia, Youlong, Mrinal K. Sen, Charles S. Jackson, Paul L. Stoffa, 2004: Multidataset Study of Optimal Parameter and Uncertainty Estimation of a Land Surface Model with Bayesian Stochastic Inversion and Multicriteria Method. *J. Appl. Meteor.*, 43, 1477–1497.

Xia, Youlong, et al. "Effect of forcing data errors on calibration and uncertainty estimates of the CHASM model: a multi-dataset study." *Observations, Theory, and Modeling of Atmospheric and Oceanic Variability, Meteorol. East Asia Ser 3* (2004): 340-358. doi: 10.1175/JAM2145.1

Jens Kattge, Wolfgang Knorr. Inversion of terrestrial ecosystem parameter values against eddy covariance measurements by Monte Carlo sampling. Presentation at the University of Bayreuth, Germany 22.11.2004.

Falge, Eva, John Tenhunen, Dennis Baldocchi, Marc Aubinet, Peter Bakwin, Paul Berbigier, Christian Bernhofer, Jean-Marc Bonnefond, George Burba, Robert Clement, Kenneth J. Davis, Jan A. Elbers, Matthias Falk, Allen H. Goldstein, Achim Grelle, André Granier, Thomas Grünwald, Jón Guðmundsson, David Hollinger, Ivan A. Janssens, Petri Keronen, Andrew S. Kowalski, Gabriel Katul, Beverly E. Law, Yadvinder Malhi, Tilden Meyers, Russell K. Monson, Eddy Moors, J. William Beniamino Gioli, Franco Miglietta, Biagio De Martino, Ronald W.A. Hutjes, Han A.J. Dolman, Anders Lindroth, Marcus Schumacher, Maria Jose` Sanz, Giovanni Manca, Alessandro Peressotti, Edward J. Dumas, 2004. Comparison between tower and aircraft-based eddy covariance fluxes in five European regions. *Agricultural and Forest Meteorology* 127: 1–16.

Dijk, Albert I. J. M. van and A. J. (Han) Dolman. Estimates of CO₂ uptake and release among European forests based on eddy covariance data. *Global Change Biology* Volume 10 Issue 9 Page 1445, September 2004

Gioli, Beniamino, Franco Miglietta, Biagio De Martino, Ronald W.A. Hutjes, Han A.J. Dolman, Anders Lindroth, Marcus Schumacher, Maria Jose` Sanz, Giovanni Manca, Alessandro Peressotti, Edward J. Dumas. Comparison between tower and aircraft-based eddy covariance fluxes in five European regions. *Agricultural and Forest Meteorology* 127 (2004) 1–16

Kyaw Tha Paw U, Matthias Falk, Thomas H. Suchanek, Susan L. Ustin, Jiquan Chen, Young-San Park, William E. Winner, Sean C. Thomas, Theodore C. Hsiao, Roger H. Shaw, Thomas S. King, R. David Pyles, Matt Schroeder, Anthony A. Matista, Carbon Dioxide Exchange Between an Old-growth Forest and the Atmosphere, *Ecosystems*, Volume 7, Issue 5, Aug 2004, Pages 513 – 524

Molen , M. K. van der, J. H. C. Gash and J. A. Elbers. Sonic anemometer (co)sine response and flux measurement: II. The effect of introducing an angle of attack dependent calibration. *Agricultural and Forest Meteorology*, Volume 122, Issues 1-2, 20 March 2004, Pages 95-109

Schelhaas, M. J. , G. J. Nabuurs, 2, W. Jans, E. Moors, S. Sabate and W. P. Daamen. Closing the Carbon Budget of a Scots Pine forest in the Netherlands. *Climatic Change*, Issue: Volume 67, Numbers 2-3, Date: December 2004, Pages: 309 – 328.

2003

Nadine Gobron , Frédéric Mélin, Bernard Pinty, Malcolm Taberner and Michel M. Verstraete. MERIS GLOBAL VEGETATION INDEX: EVALUATION AND PERFORMANCE. Proc. MERIS User Workshop, Frascati, Italy, 10 – 13 November 2003 (ESA SP-549, May 2004)

Brian J. Enquist, Evan P. Economo, Travis E. Huxman, Andrew P. Allen, Danielle D. Ignace & James F. Gillooly. 2003. Scaling metabolism from organisms to ecosystems. *Nature* 423, 639-642 (5 June 2003).

Churkina, G., Tenhunen, J., Thornton, P., Elbers, J. A., Erhard, M., Falge, E. M., Grünwald, T., Kowalski, A. S., Rannik, Ü. and Sprinz, D. F. (2003) Analyzing the ecosystem carbon dynamics of four European coniferous forest using a biogeochemistry model. *Ecosystems*, 6, 168-184.

Dario Papale and Riccardo Valentini. A new assessment of European forests carbon exchanges by eddy fluxes and artificial neural network spatialization. *Global Change Biology* (2003) 9, 525-535.

Ceulemans R., A.S. Kowalski, P. Berbigier, A.J. Dolman, A. Grelle, I.A. Janssens, A. Lindroth, E. Moors, U. Rannik and T. Vesala, 2003. Coniferous forests (Scots and Maritime Pine): Carbon and water fluxes, balances, ecological and ecophysiological determinants. Chapter 5. In: R. Valentini (Ed.). *Fluxes of Carbon, Water and Energy of European Forests*. Ecological Studies, Vol.163. Springer-Verlag, Berlin, Heidelberg; pp. 71-97. ISBN 3-540-43791-6.

Falge E, Tenhunen J, Aubinet M, Bernhofer C, Clement R, Granier A, Kowalski A, Moors E, Pilegaard K, Rannik U, Rebmann C, 2003. A model-based study of carbon fluxes at ten European forest sites. In: Editor(s): Valentini R., *FLUXES OF CARBON, WATER AND ENERGY OF EUROPEAN FORESTS* 163: 151-177

Dolman AJ, Moors EJ, Grunwald T, Berbigier P, Bernhofer C., 2003. Factors controlling forest atmosphere exchange of water, energy, and carbon. In: Editor(s): Valentini R., *FLUXES OF CARBON, WATER AND ENERGY OF EUROPEAN FORESTS* 163: 207-223

Carrara, Arnaud, Andrew S. Kowalski, Johan Neiryneck, Ivan A. Janssens, Jorge Curiel Yuste and Reinhart Ceulemans. Net ecosystem CO₂ exchange of mixed forest in Belgium over 5 years. *Agricultural and Forest Meteorology*, Volume 119, Issues 3-4, 30 November 2003, Pages 209-227

2002

Schelhaas M.J., Nabuurs G.J., Jans W.W.P., Moors E.J., Sabate S., Daamen W.P. (2002) Converging estimates of the forest carbon sink: a comparison of the carbon sink of Scots pine forest in The Netherlands as presented by the eddy covariance and the forest inventory method. Alterra-rapport 631, Alterra, Green World Research, Wageningen, Netherlands, 44pp.

Dolman, A.J., Moors, E.J., Elbers, J.A. (2002). The carbon uptake of a mid latitude pine forest growing on sandy soil. *Agric. and Forest. Met.*, 111 (3) : 157-170.

Dolman, H.; de Martino, B.; Gioli, B.; Hutjes, R. W. A.; Lindroth, A.; Miglietta, F.; Millan, M. M.; Sanz, M. J.; Schumacher, M. Regional Assessment and Monitoring of The Carbon Balance Within Europe (recab): Experimental Strategy and Mesoscale Modeling Preliminary Results. EGS XXVII General Assembly, Nice, 21-26 April 2002, abstract #6856

Law, B. E., Falge, L. Gu, D. D. Baldocchi, P. Bakwin, P. Berbigier, K. Davis, A. J. Dolman, M. Falk, J. D. Fuentes et al. Environmental controls over carbon dioxide and water vapor exchange of terrestrial vegetation. *Agricultural and Forest Meteorology*, Volume 113, Issues 1-4, 2 December 2002, Pages 97-120.

Falge, Eva, Dennis Baldocchi, John Tenhunen, Marc Aubinet, Peter Bakwin, Paul Berbigier, Christian Bernhofer, George Burba, Robert Clement, Kenneth J. Davis, Jan A. Elbers, Allen H. Goldstein, Achim Grelle, André Granier, Jón Guðmundsson, David Hollinger, Andrew S. Kowalski, Gabriel Katul, Beverly E. Law, Yadvinder Malhi, Tilden Meyers, Russell K. Monson, J. William Munger, Walt Oechel, Kyaw Tha Paw U, Kim Pilegaard, Üllar Rannik, Corinna Rebmann, Andrew Suyker, Riccardo Valentini, Kell Wilson and Steve Wofsy. Seasonality of ecosystem respiration and gross primary production as derived from FLUXNET measurements. *Agricultural and Forest Meteorology* Volume 113, Issues 1-4, 2 December 2002, Pages 53-74.

Veroustraete, Frank, Hendrik Sabbe and Herman Eerens. Estimation of carbon mass fluxes over Europe using the C-Fix model and Euroflux data. *Remote Sensing of Environment*, Volume 83, Issue 3, December 2002, Pages 376-399

Kramer K.; Leinonen I.; Bartelink H.H.; Berbigier P.; Borghetti M.; Bernhofer C.; Cienciala E.; Dolman A.J.; Froer O.; Gracia C.A.; Granier A.; Grünwald T.; Hari P.; Jans W.; Kellomäki S.; Loustau D.; Magnani F.; Markkanen T.; Matteucci G.; Mohren G.M.J.; Moors E.; Nissinen A.; Peltola H.; Sabaté S.; Sanchez A.; Sontag M.; Valentini R.; Vesala T. Evaluation of six process-based forest growth models using eddy-covariance measurements of CO₂ and H₂O fluxes at six forest sites in Europe. *Global Change Biology*, March 2002, vol. 8, no. 3, pp. 213-230(0)

Wilson Kell, Allen Goldstein, Eva Falge, Marc Aubinet, Dennis Baldocchi, Paul Berbigier, Christian Bernhofer, Reinhart Ceulemans, Han Dolman, Chris Field, Achim Grelle, Andreas Ibrom, B.E. Law, Andy Kowalski, Tilden Meyers, John Moncrieff, Russ Monson, Walter Oechel, John Tenhunen,

Riccardo Valentini, Shashi Verma. Energy balance closure at FLUXNET sites. *Agricultural and Forest Meteorology*, 113: 223–243.

Wilson, K., Baldocchi, D., Aubinet, M., Berbigier, P., Bernhofer, C., Dolman, H., Falge, E., Field, C., Goldstein, A., Granier, A., Grelle, A., Alldor, T., Hollinger, D., Katul, G., Law, B., Lindroth, A., Meyers, T., Moncrieff, J., Monson, T., Oechel, W., Tenhunen, J., Valentini, R., Verma, S., Vesala, T., Wofsy, S., 2002. Energy partitioning between latent and sensible heat flux during the warm season at FLUXNET sites. *Water Resources Research*, 38(12): 30/1-30/11.

Meer, P. J. van der , I. T. M. Jorritsma and K. Kramer. Assessing climate change effects on long-term forest development: adjusting growth, phenology, and seed production in a gap model. *Forest Ecology and Management*, Volume 162, Issue 1, 1 June 2002, Pages 39-52

Oechel, Munger, Walt, Kyaw Tha Paw U, Kim Pilegaard, Üllar Rannik, Corinna Rebmann, Andrew Suyker, Halldor Thorgeirsson, Giampiero Tirone, Andrew Turnipseed, Kell Wilson and Steve Wofsy, 2002. Phase and amplitude of ecosystem carbon release and uptake potentials as derived from FLUXNET measurements. *Agricultural and Forest Meteorology*, 113 (1-4): 75-95.

Wilson, Kell, Allen Goldstein, Eva Falge, Marc Aubinet, Dennis Baldocchi, Paul Berbigier, Christian Bernhofer, Reinhart Ceulemans, Han Dolman, Chris Field, Achim Grelle, Andreas Ibrom, B.E. Law, Andy Kowalski, Tilden Meyers, John Moncrieff, Russ Monson, Walter Oechel, John Tenhunen, Riccardo Valentini, Shashi Verma. Energy balance closure at FLUXNET sites. *Agricultural and Forest Meteorology* 113 (2002) 223–243

Janssens, I.A., H. Lankreijer, G. Matteucci, A.S. Kowalski, N. Buchmann, D. Epron, K. Pilegaard, W. Kutsch, B. Longdoz, T. Grünwald, L. Montagnani, S. Dore, C. Rebmann, E.J. Moors, A. Grelle, Ü. Rannik, K. Morgenstern, S. Oltchev, R. Clement, J. Gudmundsson, S. Minerbi, P. Berbigier, A. Ibrom, J. Moncrieff, M. Aubinet, C. Bernhofer, N.O. Jensen, T. Vesala, A. Granier, E.D. Schulze, A. Lindroth, A.J. Dolman, P.G. Jarvis, R. Ceulemans & R. Valentini, 2002. Productivity overshadows temperature in determining soil and ecosystem respiration across European forests. *Glob. Change Biol.* 7: 269-278.

Falge E, Tenhunen J, Baldocchi D, Aubinet M, Bakwin P, Berbigier P, Bernhofer C, Bonnefond JM, Burba G, Clement R, Davis KJ, Elbers JA, Falk M, Goldstein AH, Grelle A, Granier A, Grunwald T, Gudmundsson J, Hollinger D, Janssens IA, Keronen P, Kowalski AS, Katul G, Law BE, Malhi Y, Meyers T, Monson RK, Moors E, Munger JW, Oechel W, U KTP, Pilegaard K, Rannik U, Rebmann C, Suyker A, Thorgeirsson H, Tirone G, Turnipseed A, Wilson K, Wofsy S, 2002. Phase and amplitude of ecosystem carbon release and uptake potentials as derived from FLUXNET measurements. *Agric. Forest Meteorol.* 113 (1-4): 75-95

2001

Falge, Eva , Dennis Baldocchi, Richard Olson, Peter Anthoni, Marc Aubinet, Christian Bernhofer, George Burba , Reinhart Ceulemans, Robert Clement, Han Dolman, André Granier, Patrick Gross, Thomas Grünwald, David Hollinger, Niels-Otto Jensen, Gabriel Katul, Petri Keronen, Andrew Kowalski, Chun Ta Lai, Beverley E. Law, Tilden Meyers, John Moncrieff, Eddy Moors, J. William Munger, Kim Pilegaard, Üllar Rannik, Corinna Rebmann, Andrew Suyker , John Tenhunen, Kevin Tu, Shashi Verma , Timo Vesala, Kell Wilson, Steve Wofsy. Gap filling strategies for long term energy flux data sets. *Agricultural and Forest Meteorology* 107 (2001) 71–77

Falge, E., D. Baldocchi, R. Olson, P. Anthoni, M. Aubinet, C. Bernhofer, G. Burba, R. Ceulemans, R. Clement, H. Dolman, A. Granier, P. Gross, T. Grünwald, D. Hollinger, N.O. Jensen, G. Katul, P. Keronen, A. Kowalski, C.T. Lai, B.E. Law, T. Meyers, J. Moncrieff, E.[J.] Moors, J.W. Munger, K. Pilegaard, Ü. Rannik, C. Rebmann, A. Suyker, J. Tenhunen, K. Tu, S. Verma, T. Vesala, K. Wilson & S. Wofsy: Gap filling strategies for defensible annual sums of net ecosystem exchange. *Agric. Forest Meteorol.* 107 (2001): 43-69.

Jarvis, P.G., A.J. Dolman, E.D. Schulze, G. Matteucci, A.S. Kowalski, R. Ceulemans, C. Rebmann, E.J. Moors, A. Granier, P. Gross, N.O. Jensen, K. Pilegaard, A. Lindroth, A. Grelle, C. Bernhofer, T. Grünwald, M. Aubinet, T. Vesala, Ü. Rannik, P. Berbigier, D. Loustau, J. Gudmundson, A. Ibrom, K. Morgenstern, R. Clement, J. Moncrieff, L. Montagnani, S. Minerbi & R. Valentini, 2001. Carbon balance gradient in European forests: should we doubt 'surprising' results?; a reply to Piovesan & Adams. *J. Veg. Sci.* 12, 1: 145-150.

2000

Veroustraete F Sabbe H 2000 European net ecosystem productivity determined with space borne sensors In *Topics in Ecology: Structure and Function in Plants and Ecosystems*, edited by R. Ceulemans, J. Bogaert, G. Deckmyn and I. Nijs (Wilrijk: University Press Antwerp), pp. 71–79
OpenURL Wageningen UR

Canadell, J. G., H. A. Mooney, D. D. Baldocchi, J. A. Berry, J. R. Ehleringer, C. B. Field, S. T. Gower, D. Y. Hollinger, J. E. Hunt, R. B. Jackson, S. W. Running, G. R. Shaver, W. Steffen, S. E. Trumbore, R. Valentini, B. Y. Bond, Commentary: Carbon Metabolism of the Terrestrial Biosphere: A Multitechnique Approach for Improved Understanding, *Ecosystems*, Volume 3, Issue 2, Mar 2000, Pages 115 – 130

Valentini, R., G. Matteucci, A.J. Dolman, E.-D. Schulze, C. Rebmann, E.J. Moors, A. Granier, P. Gross N.O. Jensen, K. Pilegaard, A. Lindroth, A. Grelle, C. Bernhofer, T. Grünwald, M. Aubinet, R. Ceulemans, A.S. Kowalski, T. Vesala, U. Rannik, P. Berbigier, D. Loustau, J. Gudmundsson, H. Thorgeirsson, A. Ibrom, K. Morgenstern, R. Clement, J. Moncrieff, L. Montagnani, S. Minerbi and P.G. Jarvis, 2000. Respiration as the main determinant of carbon balance in European forests. *Nature*, 404: 861-865.

1999

Wijk, M. T. van and W. Bouten. Water and carbon fluxes above European coniferous forests modelled with artificial neural networks. *Ecological Modelling*, Volume 120, Issues 2-3, 17 August 1999, Pages 181-197.

1998

Dolman, A.J., Moors, E.J., Elbers, J.A., Snijders, W. (1998). Evaporation and surface conductance of three temperate forests in the Netherlands. *Ann. Forest.*, 55: 255-270.

Martin P., Dolman, A.J., Elbers, J.E., et al., 1998. New estimate of the Carbon sink strength of EU forests integrating flux measurements, field surveys and space observations. *Ambio* 27: 582-584

1996

Dolman, A.J., Moors, E.J., Elbers, J.A. en Snijders, W. (1996). De waterbalans van grove den op de veluwe in 1995. H2O. 29: 467-

Reports

P. Friedlingstein, I.C. Prentice. Introducing the Dynamic Biosphere into Earth System Models. IGBP Working Group report.

Venkata R Jogireddy, Peter M Cox, Chris Huntingford, Richard J Harding and Lina Mercado. An improved description of canopy light interception for use in a GCM land-surface scheme: calibration and testing against carbon fluxes at a coniferous forest. 22 March 2006. Hadley Centre technical note 63.

Chris Jones & Matthieu Warnier. Climate–Land Carbon Cycle Simulation of the 20th Century: Assessment of HadCM3LC C4MIP Phase 1 experiment. Hadley Centre technical note 59, 2004.

Kruijt, B., K. Kramer, I. van den Wyngaert, R. Groen, J.A. Elbers & W.W.P. Jans. The sustainability of carbon sinks in forests; Studying the sensitivity of forest carbon sinks in the Netherlands, Europe and the Amazon to climate and management. Alterra Rapport 750. gepubliceerd: 26 Jun 2003, 65 pp.

Valentini R. (ed.) (2003): Fluxes of Carbon, Water and Energy of European Forests. Ecological Studies 163. Springer Verlag. 270p.

J. Trembath, G. Churkina, D. Schimel. CarboData Scientific Report (MPI for Biogeochemistry)

T.A. Groen, K. Kramer, I.M.A. Heitköning. Modelling the interactions between water availability and forest succession on a spatial basis. Alterra rapport 147. Alterra, Green World Research, Wageningen, 2000.

Elbers, J.A. A.J. Dolman, E.J. Moors en W. Snijders, 1996. Hydrologie en waterhuishouding van bosgebieden in Nederland. Fase 2: Meetopzet en eerste resultaten. Rapport 333.2, DLO - Staring Centrum, 65 p.

Dolman, A.J., E.J. Moors, J.A. Elbers, 1994. Hydrologie en waterhuishouding van bosgebieden in Nederland. Fase 1: Toetsing instrumentarium Rapport 333, DLO - Staring Centrum, 73 p.

Abstracts

Venkata. R. Jogireddy , Peter. Cox and Chris. Huntingford. An improved description of light interception in the JULES SVAT model: calibration and testing against carbon fluxes at a coniferous forest. Geophysical Research Abstracts, Vol. 7, 07284, 2005.

Jean-Christophe Calvet, Pedro Viterbo, Philippe Ciais, Bart Van den Hurk, Eddy Moors, Alexander Kaptein, Marc Leroy. Assimilation of remote sensing data to monitor the terrestrial carbon cycle: the carbon observatory of geoland, 2004. ILEAPS conference, Helsinki, 2004.

Cor Jacobs, Eddy Moors, Herbert Ter Maat and Ryan Teuling, 2004. Validation of ELDAS products using in situ observations. ECMWF/ELDAS workshop Reading UK, November 2004.

Petropoulos, G.P., M.J. Wooster, N.A. Drake, E.J. Moors, 2004. Spatial mapping of surface evapotranspiration rates via assimilation of soil vegetation atmospheric transfer (SVAT) modelling and ASTER image analysis. Poster at ESA conference, 2004.

Volker Hahn, Nina Buchmann, Ernst-Detlef Schulze. Carbon isotopes as source indicators of soil CO₂. Max-Planck-Institute for Biogeochemistry, Jena. Forecast poster, 2001

Dolman, A.J.; Elbers, E.J.; Moors, J.A., 2000 Interannual variability of Net Ecosystem Exchange of a Scots pine forest. Abstract EGS 2000, Nice.

Moors, E.J.; Dolman, A.J.; Elbers, J.A., 2000. Interannual and site variability in water and energy fluxes of 4 forests, Abstract EGS 2000, Nice.

Moors, E.J., Dolman, A.J., Elbers, J.A., Snijders, W. (1996) An intercomparison of the water balances of four forested sites in the Netherlands. *Annales Geophysicae* C468

Presentations

Gab Abramowitz. Systematic bias and model independence in land surface models. Macquarie University, Sydney. CSIRO Marine and Atmospheric Research, Melbourne. WGNE/PCMDI Workshop on systematic errors, Feb 12-16, 2007.

Katherine Owen, John Tenhunen, Xiangming Xiao. Parameter Estimation. A Training Course on CO₂ Eddy Flux Data Analysis and Modeling. The Institute of Geography and Natural Resources, CAS, Beijing, China. July 25, 2006.

Marko Scholze, Peter Rayner, Jens Kattge, Wolfgang Knorr, Thomas Kaminski, Ralf Giering & Heinrich Widmann. A Global Carbon Cycle Data Assimilation System (CCDAS) to Infer Atmosphere-Biosphere CO₂ Exchanges and Their Uncertainties. Tsukuba, 1st Novembre 2004.

Jens Kattge, Wolfgang Knorr. A Bayesian approach and Metropolis Monte Carlo method to estimate parameters and uncertainties in ecosystem models from eddy-covariance data. CAMELS Meeting, Wageningen, 11.- 12. November 2003.

J. Tenhunen, R. Geyer, K. Owen, N.Q. Dinh and M. Reichstein, M. Aubinet, M. Aurela, Ch. Bernhofer, B. Chojnicki, A. Granier, A. Knohl, T. Laurila, A. Lohila, D. Loustau, E. Moors, Z. Nagy, J. Pereira, K. Pilegaard, S. Rambal, T. Vesala. Tower-based "Bottom-up" PIXGRO Analysis of the 2003 Summer Drought: Regional Response of Ecosystem Types. Department of Plant Ecology University of Bayreuth.

Carlos Gracia. ADAPTING MANAGEMENT TO OPTIMIZE WATER USE and CARBON STORAGE in Mediterranean Forests: A challenge. Department of Ecology, University of Barcelona.

Gabriel Rooney. Implementation of the FLake lake model in the Joint UK Land Environment Simulator (JULES). Met Office.

Impact of Water Constraints on Tree and Forest Growth. G.M.J. Mohren, Wageningen University

Moors, E.J., Dolman, A.J., Elbers, J.A., Snijders, W., 1996. An intercomparison of the water balances of four forested sites in the Netherlands. Presentation at XXI EGS assembly, the Hague. Annales Geophysicae C468.

Chris Huntingford, Peter Cox, Richard Harding. MOSES calibration for coniferous forests. CAMELS presentation.

Cotrufo M. Francesca; De Pascale Raffaele; Matteucci Giorgio. Leaf litter Leaf litter & wood debris : Contribution to forest Contribution to forest C stores stores. FORCAST presentation.

Dissertations

Volker Hahn. Soil carbon sequestration and CO2 flux partitioning.

Websites

www.loobos.alterra.nl

www.alterra.wur.nl/UK/cwk/teams/lai/Carboeuroflux.htm

www.bgc-jena.mpg.de/public/carboeur/sites/loobos.html

132.180.60.7/WRZLPRMPFT/site10.htm (with data)

132.180.60.7/CARBODATACD/site10.htm (with data)

www.weizmann.ac.il/ESER/wp5/loobos.html

www.fluxnet.ornl.gov/fluxnet/Cd-1/web/site10.html

www.fluxnet.ornl.gov/fluxnet/webpage2url.cfm?KEYID=nl.loobos.01

www.modis.ornl.gov/modis/modis_newurl4a.cfm?keyid=nl.loobos.01

gaia.agraria.unitus.it/database/index3.asp (with data)

research-db.bgc-jena.mpg.de/Seawifs/DATA/Loobos/ (with data)

www.pilpsc1.cnrs-gif.fr/instructions.htm

carbodat.ei.jrc.it/data_arch_site_indiv.cfm?db_id=10

carbodat.ei.jrc.it/data_arch_info_eur.cfm (with data)

research-db.bgc-jena.mpg.de/Seawifs/DOCS/Loobos.pdf

btb4x3.bio.uni-bayreuth.de/WRZLPRMPFT/sites.htm

www.geo.vu.nl/~dblse/index.phtml?topic=database

www.dow.wau.nl/natcons/np/FORCAST/files_database_forecast2.htm

Various

Contribution of MPI-BGC and FastOpt to the CAMELS brochure for COP 10 (UNFCCC convention) in Buenos Aires on Dec 15. 2004

CLASSIC Annual Technical Report 2004/05

Yeugeny M. GUSEV(Institute of Water Problems, Russian Academy of Sciences) Development of svat model's parameterization of heat, water and carbon exchange processes within forest systems of the boreal zone: swap model. IUGG 2003 Scientific Program.

Nadine Gobron, Frédéric Mélin, Bernard Pinty, Malcolm Taberner and Michel M. Verstraete. Meris global vegetation index: evaluation and performance. MERIS User Workshop, Frascati, Italy, 10 – 13 November 2003 (ESA SP-549, May 2004).

Malcolm Taberner. Fraction of Absorbed Photosynthetically Active Radiation (FAPAR). ProductsUsers' Guide Version 2.0. Global Vegetation Monitoring Unit, Institute for Environment and Sustainability, Joint Research Centre, Italy, 2003.

N. Viovy. Description of the PILPS C-1 experiment. PILPS-C1 workshop, May 6-7 2003, CNRS center, Gif-sur-Yvette, France.

Nicolas Viovy. Coupling chemistry and physics in the terrestrial biosphere: the PILPS-C1 experiment. French Atomic Energy Commission. GEWEX news Vol. 12, No. 3 August 2002

Cor Jacobs, Eddy Moors, Herbert ter Maat. ELDAS preliminary test-validation. Alterra Green World Research, Wageningen (NL)

E.J.Moors and A.J. Dolman. Long term measurements of weather and fluxes of co2: treatment of discontinuous data. Proceedings of the International Workshop on GAME-AAN/Radiation. Phuket, Thailand, 7-9 March, 2001.

Veroustraete F, Sabbe H. European net ecosystem productivity determined with space borne sensors, 2000. Topics in Ecology: Structure and Function in Plants and Ecosystems, edited by R. Ceulemans, J. Bogaert, G. Deckmyn and I. Nijs (Wilrijk: University Press Antwerp), pp. 71-79.

Lindner, M. (Ed.) 2000: National and Regional Climate Change Impact Assessments in the Forestry Sector - Workshop summary and abstracts of oral and poster presentations. PIK Report 61, 73 pp.

GOTILWA+: Growth of Trees is Limited by Water

LTEEF project

J. J. M. de Jong, W. Klaassen, en M. van der Linden, 1998. SAR sensing of vegetation wetness. Proceedings of the second international workshop on the retrieval of bio- and geophysical parameters from SAR data for land applications. 21-23 October 1998, Noordwijk, pp. 341-345.