

CURRICULUM VITAE

Name	Dolman, Albertus Johannes (Han)
Marital status	Married
Children	Two (born 20-1-1993, 4-5-95)
Nationality	Dutch
Place of Birth	Apeldoorn
Date of Birth	14 february 1958
Profession	Professor
Present Employer	Vrije Universiteit Amsterdam

Key Qualifications

2006- to date	Director Institute for Earth Sciences, Faculty of Earth and Life Sciences, Vrije Universiteit Amsterdam.
2001- to date	Professor in Ecohydrology at the Free University (Vrije Universiteit) of Amsterdam and head of the Department of Geo-environmental Sciences at the Faculty of Earth and Life Sciences.
2002-to date	Coordinator Regional experiment CarboEurope-IP and member of the executive board of CarboEurope-IP
2005	Convenor International workshop Monitoring the continental scale carbon balance. Dutch Royal Society, Amsterdam
2000-2001	Lead Convenor and Chief Editor of the Maastricht 2001 Symposium of the International Association of Hydrological Sciences: Soil Vegetation Atmosphere Transfer Schemes and Large Scale Hydrological Models.
2000- 2001	Co-ordinator of EU Fifth framework Programme Project: Regional Assessment and Modelling of the Carbon Balance of Europe. Project aims at scaling up point measurements of CO ₂ fluxes and assess their fate in the atmospheric boundary layer. Involves isotope sampling, tower fluxes and aircraft measurements.
2001- 2003	Chairman Steering Committee CARBOEUROPE cluster of Fifth Framework Carbon Research Projects. This cluster is formed out of 7 EU Fifth Framework projects aimed at reducing uncertainties in the European terrestrial carbon balance. Close contacts with EU DG Research and DG Environment. Also principal Investigator CarboEurope Accompanying Measure project.
2000- 2004	Member Science Panel Global Land Atmosphere System Study (GLASS). Part of the Global Energy and Water Experiment (GEWEX) of the World Climate Research Program. Aimed at improving the description of land surface hydrology and carbon exchange in climate models, and at improving the coupling of land surface hydrology and climate.
1999-2001	Leader “synthesis activity” Dutch Climate Program on “Land use and Climate. Preparation of a book synthesising various natural science and socio-economic aspects of the relation land use and climate.
1999- 2001	Programme leader Research programme Ministry of Agriculture, Nature Management and Fisheries on Climate Change. Total budget 2 Mfl per year. Consists of about 20 projects aimed at reducing emissions and assessing the vulnerability of ecosystems and hydrology to climate change. Involves close contacts with policy makers at national level.
1997	Visiting scientist at the Brazilian Centre for Weather Forecasting and Climate Prediction (4 months). Project aimed at assessing the impacts of tropical deforestation on the land surface hydrology.

1997-1998	Section leader "Land use, hydrology and climate". Management of human and financial resources of the section. Part of the management team of the Department of Water Management.
1993-2001	Senior Researcher Climate and Forest Hydrology at SC-DLO/Alterra 1989- to date Invited speaker at various conferences: Royal Society London, European Geophysical Society, American Geophysical Union, Brazilian Meteorological Congress, numerous IGBP/WCRP and (inter)national workshops, and at the Conference of the Parties (Climate conference) at the Hague, Toronto (2005)

Research focus

Interaction of land use (change) with major biogeochemical cycles and atmosphere. Measurement and modelling of CO₂ exchange of the biosphere, links with hydrology and transport within the atmospheric boundary layer. Ecohydrology, interaction of the terrestrial biosphere with the atmosphere. Physics of the transfer of water, energy and nutrients from soil to biosphere and atmosphere. Numerical modelling of Soil Vegetation Atmosphere Transfer (SVAT) models and mesoscale atmospheric models. Forest hydrology. Experience in the Netherlands, Europe, semi arid regions (Niger), boreal forests (East Siberia) and humid tropical regions (rainforest, Cameroon, Brazil) and Mediterranean .
 Advisory role on post Kyoto, land use and hydrology, and land use and climate issues, Ministry of programme Ministry of Agriculture, Nature Management and Fisheries, Ministry of VROM, and EU (DG XI and XIII) and internationally IGOS-C..

Major projects

2003-to date	Coordinator CarboEurope-IP (regional component and member of executive board
2006- to date	PI EU funded project WATCH investigating the vulnerability of the Hydrological Cycle.
2003- to date	Several PhD project supervision, relating to large scale dynamics of drought, vulnerability of the carbon balance in Amazonia, the Mediterreanean and Siberia and developments of new soil vegetation atmosphere transfer schemes.
2005	Organiser Workshop :Monitoring the continental scale carbon balance of Europe, Dutch Royal Society, Amsterdam
2000-2001	Coordinator EU- funded project Regional Assessment and modelling of the Carbon Balance within Europe (see above)
2001-2005	PI Terrestrial Carbon Observation System Siberia (TCOS-Siberia)
2000- to date	Project leader Assessment of the water, energy and carbon balance of East Siberian Larch in Yakutsk, East Siberia. Measurements of CO ₂ , water and energy exchange over a Siberian Larch forest on permafrost. Collaboration with Russian Academy of Sciences. Funding Program International Nature Management and LNV Strategic Expertise Development (230 kf 2 years).
2000-2001	Principal Investigator of Aerocarb (EU CarboEurope project) aimed at scaling up point scale measurements of CO ₂ and water exchange to large scale models .
2000-2001	Principal investigator CarboEuroflux. Continuation of EUROFLUX
2000-2001	Principal investigator TACOS, EU Fifth Framework Infrastructure program aimed at upgrading measurements of CO ₂ exchange and concentration in Europe (60 kEuro/3 years).
1999- 2001	Project Leader Dutch Climate Program project: Interactions between land use, atmospheric concentration of greenhouse gasses and climate in West

- Europe and their consequences for post Kyoto options. Project aimed at providing inventories of greenhouse gas emissions of the biosphere, interactions of the hydrological cycle with the carbon cycle, and integration of socio-economic analysis (drivers of land use change). Partners, Department of Economics and Meteorology Wageningen Universiteit, KNMI, IVM, and RIVM.
- 1998-2001 Project leader Dutch Climate Program project: Improvement of the seasonal hydrological cycle in NWP's and climate models. Aimed at improving the parameterization of land surface hydrology (unsaturated zone modelling and vegetation representation, SVAT modelling). Partners KNMI, Department of Hydrology and Water Resources and Meteorology Wageningen Universiteit.
- 1996- 2000 Project leader "Hydrology and water balance of forests in the Netherlands". Project aimed at assessing the impact of forests on the water resources in the Netherlands. Measurements with eddy correlation and modelling with Soil Vegetation Atmosphere Transfer Schemes at four sites. Funded by Ministry of Agriculture, National Forestry Service and terrain management organisations (Unie van Landschappen).
- 1996-1999 Principal Investigator EU EUROFLUX program for estimating the CO₂ balance of European forests. Assessment of the net exchange of CO₂, water and energy of European forest. Funded by the Fourth Framework Program of the EU. Budget 220 kEuro/3 years.
- 1996-1998 Principal Investigator Tropenbos Cameroon Land Evaluation study with respect to the effects of deforestation on hydrology and sediment transport.
- 1997-2000 Principal Investigator EU project Climate and Land Degradation, aimed at assessing the impact of land use change on rainfall in the Sahel. Mesoscale modelling.
- 1997-1999 Participant EU projects Medeflu and LBA-Eustach. Measurement and modelling of water energy and CO₂ exchange of Mediterranean and tropical forests.
- 1987-1988 Leader of a project studying the exchange of heat, water vapour and momentum from a forest edge in the Netherlands (Sleen Advection Experiment).
- 1985-1986 Leader of a modelling project "Modelling evaporation from forests in the Netherlands"
- 1986 Visiting scientist at the Institute of Hydrology (Wallingford, UK) investigating forest hydrology. NWO grant.
- 1983-1987 Ph. D assistant investigating evaporation from an oak forest in the Dutch coastal dunes.

Education

- 1983-1987 Ph.D. awarded June 1987. Title thesis: "Evaporation from an oak forest".
- 1976-1982 Msc. Theoretical Biology at the University of Groningen, the Netherlands. Specialization in mathematical biology, physical geography and environmental science.
- 1970-1976 Atheneum-B, Koninklijke Scholengemeenschap Apeldoorn.

Experience Record

- 2006- to date Director Institute for Earth Sciences, Faculty of Life and Earth Sciences Vrije Universiteit Amsterdam.
- 2001- Professor in Ecohydrology at the Free University (Vrije Universiteit) of Amsterdam and head of the Department of Geo-environmental Sciences at the Faculty of Earth and Life Sciences.

1999- to date	Programme leader Research programme Ministry of Agriculture, Nature Management and Fisheries on Climate Change (see above).
1993- 2001	Senior Researcher ecohydrology (Hydrology of forest and nature reserves) and climate hydrology at SC-DLO. Leader of project "Hydrology and water balance of forests in the Netherlands". Research on ecohydrology and landsurface hydrology, measurements and modelling. Experience with cold permafrost areas (Siberia), semi-arid (Niger) and humid tropical regions (rainforest, Brazil). Development soil-vegetation-atmosphere-transfer schemes (SVAT). Studies into net ecosystem exchange of CO ₂ for forests. Development aggregation techniques for heterogeneous vegetation/land use types. Research on scaling up issues of water, energy and CO ₂ . Senior scientist in Tropenbos Cameroon land inventory study for hydrology.
1989-1992	CEGB Senior Research Fellow at the Institute of Hydrology, UK. Research on ecohydrology, atmosphere interaction modelling. Experimental work on measuring evaporation from semi-arid regions (Niger, west Africa) and boundary layer structure in semi-arid regions. Analysis of data. Development of Soil Vegetation Atmosphere Transfer schemes models.
1987-1988	Lecturer in Physical geography University of Groningen. Leader of a project studying the exchange of heat, water vapour and momentum from a forest edge in the Netherlands. Both experimental and modelling input.
1985-1986	Leader of the project "Modelling evaporation from forests in the Netherlands"
1983-1987	Ph.D assistant investigating evaporation from an oak forest in the Dutch coastal dunes.

Languages:	language	speaking	reading	writing
	Dutch	excellent	excellent	excellent
	English	excellent	excellent	excellent
	German	good	good	good
	French	fair	fair	fair
	Portugese	fair	fair	fair

Professional Memberships

Fellow of the Royal Meteorological Society
 Member of the American Geophysical Union
 Member of the European Geophysical Society

Regular reviewer for

Journal of Geophysical Research
 Global Change Biology
 Hydrology and Earth Systems Science
 Quarterly Journal of the Royal Meteorological Society
 Annales Geophysicae
 Agricultural and Forest Meteorology
 Journal of Hydrology
 Water resources Reserach
 Research proposals for NASA, DOE, NOAA, NSF, NERC, EU and various other (inter) national programs.

Organisational activities

2006- to date	Member Mission Assesment Group ESA Ascope mission
2006- to date	Member Steering Group Integrated Carbon Observation System (ICOS)
2000- 2003	Member and Chairman Steering Committee CARBOEUROPE cluster of Fifth Framework Carbon research Projects
1999-2001	Member Programme Committee Dutch Climate Research Programme (NRP/NOP)
2000-2001	Lead convenor and chief editor IAHS 2001 Symposium on Soil Vegetation Atmosphere Transfer Models
2000- 2001	Member management committee EU Cost action 718 Agrometeorology
1999-to date	Vice president International Committee on Atmosphere Soil Vegetation Relations (ICASVR) of the International Hydrological Association (IAHS).
1999- to date	Secretary Climate and Hydrology of the European Geophysical association (EGS)
1997-2000	Leader Validation team Global Soil Wetness Project GEWEX-ISLSCP (Global Water and Energy Cycle Experiment, International Land Surface Climatology Project)
1999- to date	Member Science Panel WCRP/GEWEX Global Land Atmosphere System Study (GLASS)
1996-2001	Member Science Panel WCRP/GEWEX/ISLSCP (International Land Surface Climatology Project)
1999-2001	Member board Wageningen Climate Change and Biosphere Program (CCB)
1999- 2001	Member “Dossier team” Climate Ministry of Agriculture, Nature Management and Fisheries
1995-to date	Convenor and co convenor of several Symposia European Geophysical Society
1997	Organiser GEWEX/IGBP Workshop on Soil Vegetation Atmosphere Transfer Models La Jolla, Feb, 1997.
1997-2000	Coordinator Mesoscale component Large scale Biosphere Atmosphere experiment in Amazonia (LBA) (EU) Physical climate component
1997-2000	Organiser several LBA workshops related to the definition of the mesoscale field and modelling component
1998- todate	Member LBA Scientific Steering Committee
1994	Member guest editorial board Special Issue on HAPEX-Sahel for the Journal of Hydrology
1998-1999	Member guest editorial board Special Global Soil Wetness Issue Journal of the Japanese Meteorological Society.

Signature:

Date:

LIST OF PUBLICATIONS:

Peer reviewed papers, as per 30/10/2006

- Dolman, A.J.*, J. Noilhan, P. Durand, C. Sarrat, A. Brut, B. Pignatelli, A. Butet, N. Jarosz, Y. Brunet, D. Loustau, E. Lamaud, L. Tolck, R. Ronda, F. Miglietta, B. Gioli, V. Magliulo, M. Esposito, C. Gerbig, S. Körner, P. Galdemard, M. Ramonet, P. Ciais, B. Neininger, R.W.A. Hutjes, J.A. Elbers, R. Macatangay, O. Schrems, G. Pérez-Landa, M. J. Sanz, Y. Scholz, G. Facon, E. Ceschia, P. Beziat. 2006 CERES, the CarboEurope Regional Experiment Strategy in Les Landes, South West France, May-June 2005. *Bull. Am. Meteorol. Soc.* 10-1367-1379
- C. van der Tol, *A.J. Dolman*, M.J. Waterloo and K. Raspor 2006. Topography induced spatial variations in diurnal cycles of assimilation and latent heat of Mediterranean forest. *Biogeosciences Discussions*.
- Alessandro C. de Araujo, Bart Kruijt, Antonio D. Nobre, *Albertus J. Dolman*, Maarten J. Waterloo, Eddy J. Moors, Juliana S. de Souza. 2006, CO₂ underneath a tropical forest canopy and nocturnal accumulation in a topographical gradient. *Ecol. Appl.*, in press.
- Luyssaert, S., *Dolman et al.*, 2006. Global patterns in forest CO₂-balance – An analysis based on a new global database. *Global. Change. Biol* (in review).
- Bouwer, L., Aerts, J, Droogers, P., *Dolman A.J.* 2006. Detecting the long-term impacts from climate variability and increasing water consumption on runoff in the Krishna river basin (India) *Hydrol. Earth Syst. Sci.*, 10, 703–713, 2006
- Luyssaert, S., I.A. Janssens, M. Sulkava, D. Papale, *A.J. Dolman*, M. Reichstein, T. Suni, J. Hollmén, T. Vesala, D. Lousteau, B. Law and E.J. Moors, 2006. Photosynthesis drives interannual variability in net carbon-exchange of pine forests at different latitudes *Global change Biology* (in review).
- Van der Molen, M.K. and *Dolman, A.J.*, 2006. Meso-scale heterogeneity, surface fluxes and the variability in atmospheric content of CO₂. *J. Geophys. Res.*, in press.
- M.K. van der Molen, *A.J. Dolman*, M.J. Waterloo and L.A. Bruijnzeel, 2005. Climate is affected more by maritime than by continental land use change: a multiple scale analysis. *Glob. Plan. Change*, in press.
- van Huissteden, J., T. C. Maximov, and *A. J. Dolman* (2005), High methane flux from an arctic floodplain (Indigirka lowlands, eastern Siberia), *J. Geophys. Res.*, 110, G02002, doi:10.1029/2005JG000010.
- van Dijk A. I. J. M., *A. J. Dolman*, E.-D. Schulze (2005), Radiation, temperature, and leaf area explain ecosystem carbon fluxes in boreal and temperate European forests, *Global Biogeochem. Cycles*, 19, GB2029, doi:10.1029/2004GB002417.
- Gioli, B. , Miglietta, F. , De Martino, B. , Hutjes, R.W.A. , *Dolman, A.J.* , Lindroth, A. , Schumacher, M. , Sanz, M.J. , Manca, G. , Peressotti, A., 2004. Comparison between tower and aircraft-based eddy covariance fluxes in five European regions. *Agricultural and Forest Meteorology*, 127:1-16.
- Janssens, I. A. , Freibauer, A., Schlamadinger, B., Ceulemans, R., Ciais, P., *Dolman, A. J.*, Heimann, M., Nabuurs, G. -J., Smith, P., Valentini, R. and Schulze, E. -D., 2005. The carbon budget of terrestrial ecosystems at country-scale a European case study. *Biogeosciences*, Vol. 2, pp 15-26.
- Van Dijk, Albert I. J. M. & (HAN) *Dolman, A. J.* (2004) Estimates of CO₂ uptake and release among European forests based on eddy covariance data. *Global Change Biology* **10** (9), 1445-1459. doi: 10.1111/j.1365-2486.2004.00831.x
- Dolman, A. J.* , Maximov, T. C., Moors, E. J., Maximov, A. P., Elbers, J. A., Kononov, A. V., Waterloo, M. J. and van der Molen, M. K., 2004 Net ecosystem exchange of carbon dioxide and water of far eastern Siberian Larch (*Larix cajanderii*) on permafrost. *Biogeosciences*, Vol. 1, pp 133-146.
- A. J. Dolman*, E.-D. Schulze, R. Valentini, 2003 Analyzing Carbon Flux Measurements *Science*, 301: 916-917.
- Ivan A. Janssens, Annette Freibauer, Philippe Ciais, Pete Smith, Gert-Jan Nabuurs, Gerd Folberth, Bernhard Schlamadinger, Ronald W. A. Hutjes, Reinhart Ceulemans, E.-Detlef Schulze, Riccardo Valentini, and *A. Johannes Dolman*, 2003. Europe's Terrestrial Biosphere Absorbs 7 to 12% of European Anthropogenic CO₂ Emissions *Science* 300: 1538-1542; Published online May 22, 2003; 10.1126/science.1083592

J.H.C. Gash, *A.J. Dolman*, 2003. Sonic anemometer (co)sine response and flux measurement I. The potential for (co)sine error to affect sonic anemometer-based flux measurements. *Agricultural and Forest Meteorology* 119 (2003) 195–207.

Kell B. Wilson, Dennis Baldocchi, Eva Falge-Marc Aubinet, Paul Berbigier, Christian Bernhofer, *Han Dolman*, Chris Field, Allen Goldstein, Andre Granier, Dave Hollinger, Gabriel Katul, B.E. Law, Tilden Meyers, John Moncrieff, Russ Monson, John Tenhunen, Riccardo Valentini, Shashi Verma, Steve Wofsy. 2003. The diurnal centroid of ecosystem energy and carbon fluxes at FLUXNET sites. *J. Geophysical Research*, 108 (D21) 4664. doi: 10.1029/2001JD001349, 2003.

Kell B. Wilson, Dennis D. Baldocchi, Marc Aubinet, Paul Berbigier, Christian Bernhofer, *Han Dolman*, Eva Falge, Chris Field, Allen Goldstein, Andre Granier, Achim Grelle, Thorgeirsson Halldor, Dave Hollinger, Gabriel Katul, B. E. Law, Anders Lindroth, Tilden Meyers, John Moncrieff, Russ Monson, Walter Oechel, John Tenhunen, Riccardo Valentini, Shashi Verma, Timo Vesala, and Steve Wofsy, 2002. Energy partitioning between latent and sensible heat flux during the warm season at FLUXNET sites, *Water Resources Research*, vol. 38, no. 12, 1294, doi:10.1029/2001wr000989, 2002.

M. A. F. Silva Dias, S. Rutledge, P. Kabat, P. L. Silva Dias, C. Nobre, G. Fisch, *A.J. Dolman*, E. Zipser, M. Garstang, A. O. Manzi, J. D. Fuentes, H. R. Rocha, J. Marengo, A. Plana-Fattori, L. D. A. Sa', R. C. S. Alvala', M. O. Andreae, P. Artaxo, R. Gielow, and L. Gatti., 2002. Cloud and rain processes in a biosphere-atmosphere interaction context in the Amazon Region. *J Geophys. Res.*, 107, no. D20, 8072-.

Kramer, K *Dolman*, *A.J.* et al., 2002. Evaluation of six process based forest growth models using eddy-covariance measurements of CO₂ and H₂O fluxes at six forest sites in Europe. *Glob. Change. Biol.*, 8: 213-230.

Kell Wilson , 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., 2002. Energy balance closure at FLUXNET sites *Agricultural and Forest Meteorology* 113 (2002) 223–243

B.E. Law, E. Falge, L. Gu, D.D. Baldocchi, P. Bakwin, P. Berbigier, K. Davis, *A.J. Dolman*, M. Falk, J.D. Fuentes, A. Goldstein, A. Granier, A. Grelle, D. Hollinger, I.A. Janssens, P. Jarvis, N.O. Jensen, G. Katul, Y. Mahli, G. Matteucci, T. Meyers, R. Monson, W. Munger, W. Oechel, R. Olson, K. Pilegaard, K.T. Paw U, H. Thorgeirsson, R. Valentini, S. Verma, T. Vesala, K. Wilson, S. Wofsy, 2002. Environmental controls over carbon dioxide and water vapor exchange of terrestrial vegetation *Agricultural and Forest Meteorology* 113 (2002) 97–120

Dolman, A.J. Moors, E.J. and Elbers, J.A., 2002. Characteristics of the carbon uptake of a mid latitude pine forest on sandy soil. *Agric. For. Met.*, 111, 157-170.

Falge, E., Baldocchi, Olson, R. *Dolman*, *A.J.* et al., 2001. Gap filling strategies for defensible annual sums of net ecosystem exchange. *Agr For Meteorol.* 107: 43-69.

Falge, E., Baldocchi, Olson, R. *Dolman*, *A.J.* et al., 2001. Gap filling strategies for long term energy flux data sets. *Agric. For. Meteorol.*, 107: 71-77

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

Valentini, R., Mateucci, G., *Dolman*, *A.J.*, et al., 2000. Respiration as the main determinant of carbon balance in European forests. *Nature* 404: 861-865.

Nabuurs, G.J., F. Mohren and *A.J. Dolman* 2000 Monitoring and reporting carbon stocks and fluxes in Dutch forests. *Biotechnology, Agronomy, Society and Environment* 4(4): 308-310.

Soet, M., Ronda, R.J., Stricker, J.N.M., *Dolman*, *A.J.*, 2000. Land surface scheme conceptualisation and parameter values for three sites with contrasting soils and climate. *Hydrol. Earth Syst. Sciences*, 4: 283-294

Nabuurs, G-J., *Dolman*, *A.J.*, Verkaik, E., Kuikman, P., van Diepen, C.A.S., Whitmore, A.P., Daamen, W.P., oenema, O., kabat, P. and Mohren, G.M.J., 2000. Article 3.3 and 3.4 of the Kyoto

protocol: consequences for industrialised countries' commitment, the monitoring needs and possible side effects. *Environ. Science. Pol.*, 3: 123-134.

Janssens, I.A. Lankreijer, H., *Dolman, A.J.* et al., 2001. Productivity and disturbance overshadow temperature in determining soil and ecosystem respiration across European forests. *Glob. Change. Biol.*, 269-278.

Dirmeyer, P., *Dolman, A.J.* & Sato, N., 1999. The Global Soil wetness project: a pilot project for global land surface modelling and validation. *Bull. American. Met. Soc.*, 80: 851-878.

Martin P., Valentini, R., Jaques, M., Fabbri, K., Galati, D., Quarantino, R., Moncrieff, J.B., Jarvis, P., Jensen, N.O., Lindroth, A., Grelle, A., Aubinet, M., Celemans, R., Kowalski, A.S., Vesala, T., Keronen, P., Matteucci, G., Granier, A., Berbigier, P., Lousteau, D., Schulze, E.D., Tenhunen, J., Rebman, C., *Dolman, A.J.*, Elbers, J.E., Bernhofer, C., Grunwald, T. and Thorgeirson, H., 1998. New estimate of the Carbon sink strength of EU forests integrating flux measurements, field surveys and space observations. *Ambio* 27: 582-584

Dolman, A.J., Silva Dias, M.A., Calvet, J-C., Ashby, M., Tahara, A.S., Delire, C., Kabat, P., Fisch, G. & Nobre, C.A., 1999. Mesoscale effects of deforestation in Amazonia: preparatory LBA modelling studies. *Annal. Geophys.*, 17: 1095-1110.

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.

Arain, A.M., Shuttleworth, W.J., Yang, Z-L., Michaud, J., and *Dolman, A.J.*, 1997. Mapping surface cover using aggregation rules and remotely sensed cover classes. *Quart. J. Roy. Meteor. Soc.*, 123:2325-2348.

Pielke, R., Avissar, R., Raupach, M.R., *Dolman, A.J.*, Zeng, X., and Denning, S., 1998. Interactions between the atmosphere and terrestrial ecosystems: influence on weather and climate. *Global Change Biology*, no.4. 461-475.

Hanan, N.P., Elbers, J., Kabat, P. and *Dolman, A.J.*, 1997. CO₂ flux and photosynthesis of a Sahelian savannah during HAPEX-Sahel. *Physics and Chemistry of the Earth*, 21: 135-141.

Hanan, N.P., Kabat, P., *Dolman, A.J.* and Elbers, J., 1998. Photosynthesis and carbon balance of a Sahelian fallow savannah. *Global Change Biology*, no 4., 523-538

Goutorbe, J-P., Lebel, T., *Dolman, A.J.*, Gash, J.H.C., Kabat, P., Kerr, Y.H., Monteny, B., Prince, S.D., Stricker, J.N.M. and Wallace, J.S. (1996). HAPEX-Sahel: a study in climate and desertification: overview. *J. Hydrol.*, 188/189: 4-17.

Spiekma, J.F.M., *Dolman, A.J.*, Moors, E.J., and Schouwenaars, J.M. (1997) Modelling evaporation from a drained and rewetted peatland. *J. Hydrol.*, 199: 252-271.

Dolman, A.J., Gash, J.H.C., Goutorbe, J-P., Kerr, Y., Lebel, T., Prince, S.D. and Stricker, J.N.M. (1996). The role of the land surface in Sahelian climate: HAPEX-Sahel results and future research needs. *J. Hydrol.*, 188/189. 1067-1079.

Dolman, A.J., Culf, A.D. and Bessemoulin, P. (1996). Observations of boundary layer development during the HAPEX-Sahel intensive observation period. *J. Hydrol.*, 188/189: 998-1016.

Wai, M. M-K., Smith, E.A., Bessemoulin, P., Culf, A.D., *Dolman, A.J.* and Lebel, T. (1996). Variability of Boundary Layer structure during HAPEX-Sahel wet-dry season transition. *J. Hydrol.*, 188/189: 965-997.

Arain, M.A., Michaud, J., Shuttleworth, W.J. and *Dolman, A.J.* (1995). Testing of vegetation parameter aggregation rules applicable to the biosphere-atmosphere transfer scheme and the FIFE site. *J. Hydrol.*, 177: 1-22.

Kabat, P., *Dolman, A.J.* and Elbers, J.A. (1996). Evaporation sensible heat and surface conductance of fallow savannah and patterned woodland in the Sahel. *J. Hydrol.*, 188/189: 494-515.

Noilhan, J., Lacarriere, P., *Dolman, A.J.* and Blyth, E.M. (1996). Defining area average parameters in meteorological models for land surfaces with mesoscale heterogeneity. *J. Hydrol.*, 190: 302-316.

Lloyd, C.R., Bessemoulin, P., Cropley, F.D., Culf, A.D., *Dolman, A.J.*, Elbers, J.A., Heisinkveld, B., Moncrieff, J.B., Monteny, B., and Verhoef, A. (1996). An intercomparison of surface flux measurements during HAPEX-Sahel. *J. Hydrol.*, 188/189: 400-425.

Dolman, A.J. and Blyth, E.M. (1996). Patch scale aggregation of heterogeneous land surface cover for mesoscale meteorological models. *J. Hydrol.*, 190: 252-268.

Blyth, E.M. and *Dolman, A.J.* (1995) A note on the roughness length for heat of sparse vegetation. *J. Appl. Meteorol.*, 34: 583-585.

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