
CURRICULUM VITAE

Name : P. DROOGERS
First Name : Peter
Date of Birth : 5 June 1961
Nationality : Dutch
Main Disciplines : Hydrology, Irrigation, Climate Change, Remote Sensing, Agro-hydrology, Soil Physics, Soil Salinity, Computer Simulation, Agro-meteorology
Address : FutureWater
Costerweg 1G
6702 AA Wageningen
The Netherlands
Tel: +31 (0)317 460050
Mob: +31 (0)6 4879 4729
Email: p.droogers@futurewater.nl

Key Qualifications

Dr. Peter Droogers is an expert on integrated water resources management at different spatial scales with emphasize on water for food issues, climate change, decision support systems, simulation modeling in combination with data mining and remote sensing. Peter has over 15 years of experience working in The Netherlands and overseas (as a resident in Sri Lanka and Turkey). Non-resident assignments included Albania, Belgium, Cambodia, China, Ethiopia, France, Gambia, Germany, India, Iran, Kenya, Laos, Mexico, Netherlands, Niger, Pakistan, Portugal, Qatar, South Africa, Spain, Sri Lanka, Sweden, Tanzania, Thailand, Turkey, Uganda, Uzbekistan, and USA. Research was conducted at various institutions including Wageningen University, International Water Management Institute, WaterWatch and FutureWater. Peter is part-time lecturer at several universities and has written over 100 publications of which 50 appeared in peer-reviewed journals. He is reviewer for a number of journals. Peter is external advisor for large projects including: World Bank's GEF Hai Bain project (China), European Union research frameworks, Worlds Bank's Rio Bravo/Grande project (Mexico).

Educational background

1997 Ph.D. Wageningen Agricultural University, The Netherlands.
Subject: Quantifying differences in soil structure induced by farm management using simulation modeling.

1989 B.Sc. Larenstein International Agricultural College, Netherlands.
Subjects: groundwater- and surface water-hydrology, hydraulics, irrigation

1981 Vocational School for Land and Water Management, Netherlands.
Subjects: hydrology, hydraulic engineering.

Professional Experience

2002 - to date FutureWater, The Netherlands
Scientific Director and Founder. FutureWater is a research company concerned with the future of our water resources. FutureWater applies and, if required, develops scientific methodologies, concepts and tools to assure sustainable water resources solutions for the future. Activities can be summarized as water for food and water for nature under changing environments, including climate change. Simulation models, GIS and RS are the tools used to assist in these activities. Projects take place in the developed as well as the developing world. Emphasis on a pro-active approach with strategic thinking and tools.

- 2009 - to date WaterWatch, The Netherlands
Senior hydrologist and operational manager. WaterWatch is a scientific advisory firm that diagnoses historic and current water management practices across large irrigated river basins by means of satellite measurements. WaterWatch supports in providing key data for integrated water and environmental resources plans in regions where complete and accessible data records are scarce. WaterWatch is the original developer and intellectual owner of Surface Energy Balance Algorithm for Land (SEBAL).
- 2005 - to date SEI, Stockholm, Sweden
Fellow. SEI (Stockholm Environment Institute) is an independent, international research institute specializing in sustainable development and environment issues.
- 1999 - 2002 International Water Management Institute, Sri Lanka.
Senior Researcher. Research on improving integrated water management by using simulation models, remote sensing, GIS, global and local datasets applied over different spatial scales. Projects are carried out in several countries and support is provided to IWMI's regional offices. Global issues, such as climate change, food security, global mapping of irrigated areas, potential for rainfed agriculture, and water for agricultural vs. environment are research areas as well. Additional tasks include supervision of MSc and PhD candidates from various universities, managing GIS lab and as Group Manager supervision of about 15 staff.
- 1997 - 1999 International Water Management Institute, Turkey.
Researcher. Collaborative research between IWMI and the General Directorate of Rural Services in Turkey to evaluate past and current water resources management, to advice on future alternatives for sustainable management and to improve the research capacity of the counterpart. Integration over different scales (basin, irrigation system, field), using global and local datasets, remote sensing, GIS and simulation models, were the key issues. The project was successful in improving the research capacity of the counterpart, handing over the tools developed (GIS, RS, databases and simulation models), and numerous publications both in international as well as national journals and conferences.
- 1993 - 1997 Wageningen Agricultural University, Dept. Soil Science, The Netherlands.
Research Associate. Research on the effects of farm management on soil structure and sustainability. A thorough measurement campaign concentrating on morphological and physical properties emphasising crop-water requirement parameters was followed by an extensive use of simulation models for water dynamics, crop-growth, agro-meteorology and nutrient dynamics. Supervision of MSc-students and teaching
- 1989 - 1993 Wageningen Agricultural University, Dept. Water Resources, The Netherlands.
Research Associate. Research on the processes of the role of water in land surface schemes. Large-scale field experiments were performed on various soils and in various climatic zones (France, Spain, Niger). Collected data were used to develop, improve and verify existing simulation models. Research was performed in close collaboration between experts in the area of hydrology, soil science, meteorology and remote sensing from European countries and the United States
- 1984 - 1985 State Forestry, Netherlands
Manager forestry and natural reserves
- 1983 Ministry of Agriculture, nature Conservation and Fisheries, The Netherlands
Manager wetland preservation

1981 - 1983 Military service, The Netherlands

1981 Delta Bouw, Germany
Engineer small-scale hydraulic structures

Overseas Professional Experience

Resident:

Netherlands, Sri Lanka, Turkey

Non-resident assignments:

Albania, Belgium, Cambodia, China, Ethiopia, France, Gambia, Germany, India, Iran, Kenya, Laos, Mexico, Netherlands, Niger, Pakistan, Portugal, Qatar, South Africa, Spain, Sri Lanka, Sweden, Tanzania, Thailand, Turkey, Uganda, Uzbekistan, and USA.

Consulting Experiences

Only consultancies started, on-going or completed after 2003 are included.

Nov 2010 – Feb 2011	Green Water Credits (Morocco) Proof of concept study on the potential for water and erosion control in the context of green water credits. (Project Leader)
Sep – Nov 2010	Climate change guidelines (Netherlands) Initial development of a guidance on climate change and water resources for OESO. (Project Leader)
Jan – Apr 2010	National model development (Netherlands) Development of the first national quick assessment model on climate change impact on water resources. (Principal Modeler)
Jun – Dec 2010	Climate Change impact Brabant en Limburg (Netherlands) Assessment of climate change impact on water resources in the context of "Deltaplan Hoge Zandgronden". (Senior Advisor)
Nov 2010	European Union evaluator for research potential programs (Brussels)
Aug – Dec 2010	Water outlook MENA region (Middle East, North Africa) Extensive study on changes in water demand and supply between 2010 and 2050. (Principal Modeler)
Oct 2010 – Feb 2011	Drought assessment Mekong Basin (Laos, Cambodia, Thailand, Vietnam) Development of an initial drought assessment framework and associated large grant proposal. (Project Leader)
Oct – Dec 2010	Development of water accounting framework (Botswana, Angola, Namibia) Innovative remotely sensed based water accounting development for the Okavango Basin. (Project Leader)
Jun – Dec 2010	Climate change and agricultural production (Albania, Uzbekistan) World Bank supported study on the impact of climate change and adaptation options for agricultural production. (Project Leader)
Jul – Oct 2010	Climate responsive drainage system research (Netherlands) Development of an innovative drainage system to retain water to overcome excessive flooding at regional scale. (Project Leader)
Jan – 2010	Irrigation and drainage advisory (Ethiopia) Large scale agricultural irrigation and drainage advisory services for the Gambela region. (Advisor)
Nov – Dec 2009	Identification research topics in water and food (Germany) Advisory services to the German Ministry of Education and Research (BMBF) to identify research topics to be implemented over the period 2010-2020. (External Expert)
Oct - Nov 2009	Impact of climate change on hydro-power (Kenya) Evaluation using the WEAP model on the impact of climate change on hydro-power generation in Tana Basin in Kenya. (Principal Investigator and Modeler)

Aug – Dec 2009	Environmental impact on Q-fever transmission (Netherlands) Evaluation of the impact of environmental factors like soil moisture, land cover and soil type on Q-fever transmission.
Jun – Dec 2009	Climate change preparedness (Netherlands) For a water management organization methodological development for climate change impact and adaptation assessment was developed and tested. (Principal Investigator)
Apr 2009	Agricultural information system Nile Basin (Ethiopia) The Nile Basin Initiative (NBI) is developing an integrated information and modeling system with specific focus on agriculture. (External Expert)
Jan – May 2009	Development drought insurance (Netherlands) Weather related insurances are under development by insurance companies. The project calculated, based on modeling approaches, the required premium and risks of claims. (Principal Investigator and Modeler)
Feb – Jun 2009	Green Water Credits (Kenya) Model development to support decision making process. (Principal Investigator and Trainer)
Jan – Jun 2009	Drought assessment tool (Belgium) Development of an integrated GIS-modeling framework to evaluate the impact of changes in groundwater extraction on agriculture and nature. (Advisor and Modeling Expert)
Sep – Dec 2008	Evaporation (Netherlands) En extensive project, including stakeholder meetings, expert knowledge, data assimilation and modeling efforts, to develop a new standard for determining reference evapotranspiration in The Netherlands. (Project Leader)
Aug – Dec 2008	Evaluation National Water Plans (Egypt, Saudi Arabia, Tunisia) World Bank project on the use of advanced analysis techniques (remote sensing, models) to support the development of National Water Plans. Demonstration for three countries: Egypt, Saudi Arabia, and Tunisia. (Project Leader and Principal Investigator)
Dec 2008 - May 2009	DSS Data support (Ethiopia) Advisory services on the use of data to be included in the Nile Basin Decision Support System (Project Leader)
Dec 2009	Training course remote sensing and models (Ethiopia) (Trainer)
Aug – Nov 2008	Scenario based water resources model (Morocco) World Bank project to demonstrate the use of water resources modeling to evaluate alternatives to adapt to climate change and other changes (Project Leader and Principal Investigator)
Jul – Aug 2008	Expert opinion physical potential of irrigation (Tanzania) Consultancy for the Nile Basin Initiative to assess the physical potential to develop irrigation in the Lake Victoria area (External expert)
May – Jun 2008	Water requirements under climate change (The Netherlands) Evaluation of current water delivery and future changes as a consequence of climate change. Waterboard Hunze en Aa's. (Project Leader and Principal Investigator)
Feb – Mar 2008	Green Water Credits in Sebou Basin (Morocco) Evaluation of potential green water credits options in Sebou Basin in Morocco. (Principal Investigator)
Jan – Jun 2008	Book Climate Change Adaptation in the Water Sector (Netherlands) Editor and reviewer of eight regional case studies
May 2008	Conference on advanced tools in water resources management (Beijing) International conference on the used of advanced tools in water resources management with special emphasis on Sino-Dutch linkages. (Initiator and Project Leader)
Apr 2008	European Union evaluator for research potential programs (Brussels)
Dec 2007	International expert modelling services. Mekong River Commission (Laos) Advisory services on future modelling development and applications in the Mekong River Commission Modelling Group.
Nov-Dec 2007	Flood risk evaluation of Shell infrastructure (Oman) Pre-evaluation of flood risk of infrastructure to be built by Shell in Oman. (External Advisor and Modeller)
Nov 2007	European Union evaluator for research potential programs (Brussels)

Oct 2007 – Jul 2008	Groundwater management and exploration package (China) For the Yellow River Basin an evaluation package was developed to monitor and explore groundwater resources. (Project Leader)
Oct 2007	External advisor World Bank GEF Hai Basin project (China) Mission to advise the Hai Basin World Bank project (Doug Olson) on progress and future directions. (External Advisor)
Sep 2007	Training course: Water management and climate change. (The Netherlands) A tailor-made course for water managers and policy makers in The Netherlands was organized to provide practical background information on climate change issues related to water management. (Trainer).
Jul-Aug 2007	Adaptatie Ruimte en Klimaat, ARK (The Netherlands) Research inventory of projects that can contribute to ARK (Project Leader)
Jan – Oct 2007	Green Water Credits (Kenya) Model development to support decision making process. (Principal Investigator)
May 2007	European Union evaluator for research potential programs (Brussels)
Mar 2007	Decision Support System for Shiyang Basin Commission (China) Development of Decision Support Systems. (International Advisor)
Jan-Dec 2007	Insurance policies for climate change impact on agriculture (The Netherlands) A multi-year research commissioned by the Dutch government (BSIK) focusing on exploring insurance options towards climate change impact on agriculture. (Principal Investigator)
Dec2006 – Jun 2007	Water Management Support Tools (Turkey) Assist water managers and policy makers in development of strategic tools to model decision making tools, including environmental issues and climate change. (Project Leader)
Jan-Dec 2007	Adaptation strategies to climate change (The Netherlands) A multi-year research commissioned by the Dutch government (BSIK) focusing on exploring adaptation strategies to climate change. (Principal Investigator)
Nov 2006	External advisor World Bank GEF Hai Basin project (China) Mission to advise the Hai Basin World Bank project (Doug Olson) on progress and future directions. (External Advisor)
Nov 2006	Water retention options (The Netherlands) Using modeling tools options were explored to use adjustable weirs to retain water (Project Leader)
Sep 2006	Decision Support System for Shiyang Basin Commission (China) Organizing and providing training on the DIFD (UK) funded project to develop a Decision Support System for Shiyang Basin Commission. (Trainer and Advisor)
Jul 2006	European Union evaluator for mobility programs (Brussels)
Jul 2006	Water Management Support activities (Kenya) Mission to Kenya to assist and discuss with policy makers and water managers at various level options to improve water management to support food production and power generation.
Jan –Dec 2006	Green Water Credits (Kenya) IFAD (International Fund for Agricultural Development) supported proof of concept study to explore options for improved water and soil management issues. (Principal Investigator)
Jun2006-May2007	Integrated Water Management Support Methodologies (Kenya, Iran) Development of Integrated Water Management Support Methodologies for two countries to assist water managers and policy makers to improve water for food decision making, including environmental issues and climate change. (Project Leader)
May 2006	European Union evaluator for mobility programs (Brussels)
Mar 2006	Support mission for Krishna study (India)
Jan-Dec 2006	Coupling of models and Remote Sensing to support water managers (India) Development of decision support systems to be used by policy makers and researchers to evaluate impact of climate change on water-food issues. Krishna Basin, Andhra Pradesh. (Principal Investigator)
Mar 2006	European Union evaluator for mobility programs (Brussels)
Jan 2006	Assessment of improved sustainable water management options (Mexico) A one week training workshop for professionals from Mexico. (Principal Trainer and Organizer)

Oct-Jan 2006	Assessment of improved sustainable water management options (Mexico) Evaluations, based on integrated water resources modeling and remote sensing, to improved water management options in Rio Bravo. (Principal Investigator)
Oct-Dec 2005	Discharge criteria re-evaluated (The Netherlands) An analysis of the discharge criteria used currently compared to the so-called NBW ones. (Project Leader and Principal Investigator)
Nov 2005	Green water paradigm professional development workshop (Uganda) A one week training workshop for mid-career professional from Central and East Africa. (Trainer)
Jul-Sep 2005	Water delivery requirements for agriculture (The Netherlands) For a Dutch waterboard an evaluation of current water delivery and future changes as a consequence of climate change were made. (Project Leader and Principal Investigator)
Jun 2005	Green - Blue Water Initiative (Sweden) Initiation phase of the multi-million GBWI project (Panel member)
Jan-May 2005	Nutrient loads on surface water (The Netherlands) For a Dutch polder high level of nutrient loads were detected. Based on measurement and 2D modeling options were explored to reduce nutrient loading of surface water. (Project Leader and Principal Investigator)
Jan-Feb 2005	Optimal water management for a wet forest (The Netherlands) Improved surface and groundwater management for a wet forest in the Western part of Netherlands was analyzed using measurements and simulation modeling. (Principal Investigator)
Jan-Dec 2005	Insurance policies for climate change impact on agriculture (The Netherlands) A multi-year research commissioned by the Dutch government (BSIK) focusing on exploring insurance options towards climate change impact on agriculture. (Principal Investigator)
Apr 2005	Groundwater irrigation efficiency in Saudi Arabia (Saudi Arabia) Hydrological analysis of the groundwater irrigation practices in central-pivot systems in Saudi Arabia, based on detailed soil-water-crop modeling. (Principal Investigator)
Mar-Jun 2005	Impact of tail-drainage development on water management (The Netherlands) Evaluation of the expected changes of tube drain development on large scale water management issues. (Principal Investigator)
Apr-Jun 2005	Pakistan drainage and salinity evaluation (Pakistan) The World Bank Inspection Panel to evaluate Left Bank Outfall Project and National Drainage Program. (Inspection Panel Consultant)
Mar-Jun 2005	Hai Basin integrated water management assessment (China) International expert to assist the Hai River Basin Commission in the development of appropriate tools to reduce water consumption in agriculture. (International Expert and Trainer)
Apr 2005	Training course: Integrated water resources management. (The Netherlands) A training course for IHE, Delft on various aspects of integrated water resources management with focus on world food issues. (Trainer)
Apr 2005	Climate Change adaptation strategies (Thailand and Vietnam) Project mission to assess and discuss potential partners for Dutch Foreign Aid assisted program. (Project Developer)
Apr 2005	External evaluator of the EU 6 th framework program. (Belgium)
Feb 2005	Training course: Integrated modeling in water resources management. (Germany) A small training course was organized at the Center for Development Research, Bonn. Students from the developing world were trained in the capabilities of remote sensing in water resources management research. (Trainer)
Jan 2005	Training course: Water management and climate change. (The Netherlands) A tailor-made course for water managers and policy makers in The Netherlands was organized to provide practical background information on climate change issues related to water management. (Trainer).
Oct 2004	External evaluator of the EU 6 th framework program. (Belgium)
Aug – Dec 2004	Hydrological characterization of a Dutch polder. (The Netherlands) For a low-lying polder hydrological processes (such as drainage, infiltration, groundwater recharge) were obtained by a combined use of data, measurements, models and remote sensing. Principal Investigator.

May - Oct 2004	Water storage options Dutch polder. (The Netherlands) Regional evaluation of options to store and retain water in Dutch polders. Participative approach, modeling, Remote Sensing. Project Leader and Principal Investigator.
May 2004	Training course on simulation modeling for students from developing world. (The Netherlands) At the International Institute for Geo-Information Science and Earth Observation, Netherlands, a training course was given focussed on the use of simulation modeling to assist water managers. Trainer.
Nov 2003 – Apr 2004	Climate change adaptation strategies. (Gambia) In the context of AIACC (Assessments of Impacts and Adaptations to Climate Change) assistance was provided to researchers at Gambian universities. Main assistance provided was in the context of climate change adaptation strategies and, more specific, on data management, simulation modeling, scientific reporting and dissemination of research findings. External Advisor.
Feb 2004	Training course: Remote sensing applications in water resources management. (Germany) A small training course was organized at the Center for Development Research, Bonn. Students from the developing world were trained in the capabilities of remote sensing in water resources management research. Trainer.
Feb 2004	Training course: Water management and climate change. (The Netherlands) A tailor-made course for water managers and policy makers in The Netherlands was organized to provide practical background information on climate change issues related to water management. Project Leader.
Nov – Dec 2003	Editor book adaptation to climate change. (The Netherlands) Contributing author of book describing adaptation strategies to climate change focussed on food production. Contributing Author.
Oct - Dec 2003	Defining operational rules for flexible weirs. (The Netherlands) Flooding and inundation has been on the rise in a Dutch polder. Increasing local storage capacity might mitigate this, where static and dynamic weir operational rules were the options to explore. Modeling and observations were combined. Project Leader and Principal Investigator.
Nov 2003	Water planning Dutch polder. (The Netherlands) Development of a strategic land-water use plan for a Dutch polder. Project Leader.
Mar 2001 – Oct 2003	Enhancing Water Productivity. (India) An extensive project aiming at enhancing water productivity in Haryana State, India, based on field observations, simulation modelling and remote sensing was undertaken in close collaboration with local universities, Dutch research institutes and the International Water Management Institute. Principal Investigator.
Sep 2003	Simulation model requirements for a water board. (The Netherlands) A Dutch based water board was advised on which modelling framework would be the most appropriate to be implemented. External Advisor.
Apr 2002 – Jul 2003	Adaptation strategies to climate change in seven contrasting basins. (Cambodia, Ghana, Iran, Netherlands, Sri Lanka, USA, Uzbekistan) Adaptation strategies to climate change were explored and compared among seven basins, ranging from dry to wet and located in developed and developing countries. From each basin local researchers were responsible for data and analyses. Initiator and Principal Investigator.
May 2003	Training course on simulation modeling for students from developing world. (The Netherlands) At the International Training Center in the Netherlands a training course was given focussed on the use of simulation modeling to assist water managers. Trainer.
Apr 2003	Climate Change Book. (The Netherlands) Contribution to book "Climate changes the water rules" covering global food issues and climate change. Contributing author.
Feb 2003	Basin scale water assessment (India) Defining research setup to analyze and improve basin scale water resources for Krishna Basin, India. External Advisor.
Dec 1998 – Jan 2003	Irrigation management from a basin scale perspective. (Iran) A major project in close collaboration with Iranian research institutes aiming at analyzing irrigation performance at different scales (field to basin), and provide options for the future. Participatory research, training and reporting were the main tasks. Principal Investigator and Representative Project Leader.

Computer Skills

Standard software	Excellent (Word, Excel, PowerPoint), good (Access, PostgreSQL)
Programming	Excellent (Pascal, Delphi), good (Fortran), fair (C/C++)
GIS	Excellent (ARC-GIS), good (IDRISI, ILWIS)
Others	Excellent (Surfer, Grapher), fair (HTML, FrontPage)
Hydrological Models	Excellent (SWAT, SWAP, WEAP, HEC-HMS, HydroS, FutureView), fair (IQQM, MIKE-BASIN, SOBEK, HEC, RIBERSIM, SWMM)

Miscellaneous

Reviewer

Reviewed for the following Journals:

- Irrigation and Drainage Systems
- Journal of Hydrology
- Soil Science Society of America Journal
- Computers and Geosciences
- Irrigation and Drainage
- Agricultural Water Management
- International Journal of Applied Earth Observation and Geoinformation

DANIDA, Danish Ministry of foreign Affairs

EU, 6th Framework, INTAS

EU, 6th Framework, INCO

EU, 6th Framework, Marie Curie

EU, 7th Framework, various programs

EU, KIC (Knowledge and Innovation Communities)

World Bank, GEF Hai Basin, China

World Bank, Rio Bravo/Grande, Mexico

German Ministry of Education and Research (BMBF)

Student supervision

Supervision of MSc and PhD students from various universities:

- Wageningen University, Netherlands
- Utrecht University, Netherlands
- Asian Institute of Technology, Thailand
- Ruhuna University, Sri Lanka
- ITC, Netherlands

Most relevant MSc and PhD students:

- 2009: MSc Sameer Safaya (Utrecht University)
- 2008: PhD Walter Immerzeel: A systems approach to the spatial modelling of the interaction between the hydrological cycle, climate change and agriculture in mountainous basins (Utrecht University, NL).
- 2007: PhD Majid Vazifedoust: Development of an agricultural drought assessment system: Integration of crop and soil modelling, remote sensing and geographical information. (Wageningen University, NL).
- 2006: MSc Hetty Mathijssen (Wageningen University, NL)
- 2005: MSc Chiel van Heerwaarden (Wageningen University, NL)
- 2004: MSc Menno ten Heggelaar (Wageningen University, NL)
- 2002: PhD Raj Kumar Jhorar. Soil hydraulics for water management (Wageningen University, NL)
- 2002: PhD Amor Ines: Improved crop production integrating GIS and genetic algorithms (AIT, Thailand).
- 2002: MSc Neelanga Weragala (Ruhuna University, Sri Lanka)

Lecturing

- Wageningen University, The Netherlands
- ITC, Enschede, The Netherlands
- UNESCO-IHE, Delft, The Netherlands
- Tarbiat Modarres University, Tehran, Iran
- Vrije Universiteit, Amsterdam, The Netherlands
- ZEF, Bonn, Germany

Publications

Peer reviewed publications, books, book chapters

- Droogers, P., W.W. Immerzeel, I.J. Lorite. 2010. Estimating actual irrigation application by remotely sensed evapotranspiration observations. *Agricultural Water Management* 97: 1351 - 1359..
- Ludwig, F., P. Droogers, M. van der Valk, H. van Schaik, P. Kabat. 2009. Introduction. In: *Climate Change Adaptation in the Water Sector* (Eds. F. Ludwig, Pavel Kabat, H. van Schaik and M. van der Valk). Earthscan, London
- Immerzeel, W.W., Droogers, P., de Jong, S.M., Bierkens, M.F.P., 2008, Satellite derived snow and runoff dynamics in the upper Indus river basin. in: Sulzer, W. *Proceedings of the 10th symposium on high mountain remote sensing and cartography*, Kathmandu, Nepal (in press)
- Immerzeel, W.W., Van Heerwaarden, C.C., Droogers, P., 2009, Modelling climate change in a Dutch polder system using the FutureViewR modelling suite. *Computers and Geosciences* 35/3: 446-458
- Immerzeel, W.W., Rutten, M.M., Droogers, P., de Jong, S.M., Bierkens, M.F.P., 2009, Spatial downscaling of TRMM precipitation using vegetative response on the Iberian Peninsula. *Remote Sensing of Environment* 113: 362-370
- Immerzeel, W.W., Droogers, P., de Jong, S.M., Bierkens, M.F.P., 2009, Large-scale monitoring of snow cover and runoff simulation in Himalayan river basins using remote sensing. *Remote Sensing of Environment* 113: 40-49
- Droogers, P. 2009. *Climate Change Adaptation in the Water Sector. Case Studies* Editor. In: *Climate Change Adaptation in the Water Sector* (Eds. F. Ludwig, Pavel Kabat, H. van Schaik and M. van der Valk). Earthscan, London
- Aerts, J, P. Droogers. 2009. Adapting to climate change in the water sector. In: *Climate Change Adaptation in the Water Sector* (Eds. F. Ludwig, Pavel Kabat, H. van Schaik and M. van der Valk). Earthscan, London
- Ludwig, F., P. Droogers, M. van der Valk, H. van Schaik, P. Kabat. 2009. Introduction. In: *Climate Change Adaptation in the Water Sector* (Eds. F. Ludwig, Pavel Kabat, H. van Schaik and M. van der Valk). Earthscan, London
- Droogers, P., A. Van Loon, W. Immerzeel. 2008. Quantifying the impact of model inaccuracy in climate change impact assessment studies using an agro-hydrological model. *Hydrology and Earth System Sciences* 12: 1-10
- Bastiaanssen, W.G.M., R.G. Allen, P. Droogers, G. D'Urso and P. Steduto. 2007. Twenty-five years modeling irrigated and drained soils: State of the art. *Agr. Water Management* 92: 111-125
- Immerzeel, W.W., Van Heerwaarden, C.C., Droogers, P., Modelling climate change in a Dutch polder system using the FutureViewR modelling suite, (submitted to *Computer and Geosciences*)
- Droogers, P., Van Loon, A., Immerzeel, W.W., 2007. Climate change impact assessment as function of model inaccuracy. *Hydrology and Earth System Sciences Discussions*, 4, 2875-2899.
- Van Beek, C.L., Droogers, P., Van Hardeveld, H.A., Van Den Eertwegh, G.A.P.H., Velthof, G.L., Oenema, O. 2007. Leaching of Solutes from an Intensively Managed Peat Soil to Surface Water. *Water, Air, & Soil Pollution*. Volume 182: 291-301
- Immerzeel, W.W. and Droogers P. 2008. Calibration of a distributed hydrological model based on satellite evapotranspiration. *Journal of Hydrology* 349: 411-424
- Bouma, J., P. Droogers. 2007. Translating soil science into environmental policy: A case study on implementing the EU soil protection strategy in The Netherlands. *Environmental Science & Policy*, Volume 10, Issue 5, Pages 454-463
- Immerzeel, W., P. Droogers. 2007. Spatial calibration of a distributed hydrological model using Remote Sensing derived evapotranspiration in the Upper Bhima catchment, India. *Hydrological Processes* (under review)
- Akbari, M., N. Toomanian, P. Droogers, W. Bastiaanssen, A. Gieske. 2007. Monitoring irrigation performance in Esfahan, Iran, using NOAA satellite imagery. *Agric. Water Manage.* (2006),

doi:10.1016/j.agwat.2006.10.019

- Momodou Njie, Bernard E. Gomez, Molly E. Hellmuth, John M. Callaway, Bubu P. Jallow, and Peter Droogers. 2006. Making Economic Sense of Adaptation in Upland Cereal Production Systems in The Gambia. AIACC Working Paper No. 37. August 2006
- Van Dam, J.C., Singh, R., Bessembinder, J.J.E., Leffelaar, P.A., Bastiaanssen, W.G.M., Jhorar, R.K., Kroes, J.G., Droogers, P. 2006. Assessing options to increase water productivity in irrigated river basins using remote sensing and modelling tools. *International Journal of Water Resources Development*. Volume 22, Issue 1, Pages 115-133
- Bouwer, L.M., J.C.J.H. Aerts, P. Droogers, and A. J. Dolman. 2006. Detecting the long-term impacts from climate variability and increasing water consumption on runoff in the Krishna river basin (India). *Hydrology and Earth System Sciences* 10:703-713.
- Ines, A.V.M., K. Honda, A. Das Gupta, P. Droogers, R.S. Clemente. 2006. Combining remote sensing-simulation modeling and genetic algorithm optimization to explore water management options in irrigated agriculture. *Agricultural Water Management* 83: 221-232.
- Droogers, P. and J. Aerts. 2005. Adaptation strategies to climate change and climate variability: a comparative study between seven contrasting river basins. *Physics and Chemistry of the Earth* 30, pp339-346.
- Van Dam, J.C., R. Singh, J.J.E. Bessembinder, P.A. Leffelaar, W.G.M. Bastiaanssen, R.K. Jhorar, J.G. Kroes, and P. Droogers. 2006. Assessing options to increase water use productivity in irrigated river basins using remote sensing and modeling tools. *International Journal of Water Resources Development*. Vol. 22, No. 1, 115-133.
- Aerts, J. P. Droogers, S. Werners. *Adaptation to Climate Change: A Research Agenda for the Future*. 2004. *In* J. Aerts and P. Droogers (Eds). *Climate change in contrasting river basins: Adaptation strategies for water, food, and environment*. CABI Books, Londen.p. 255-260
- Jayatilake, H.M., P. Droogers. 2004. Will There be Sufficient Water Under Internal and External Changes? Walawe Basin, Sri Lanka. *In* J. Aerts and P. Droogers (Eds). *Climate change in contrasting river basins: Adaptation strategies for water, food, and environment*. CABI Books, Londen.p. 195-214
- Hoanh, C.T., H. Guttman, P. Droogers, J. Aerts. 2004. Will We Produce Sufficient Food Under Climate Change? Mekong Basin (South East Asia). *In* J. Aerts and P. Droogers (Eds). *Climate change in contrasting river basins: Adaptation strategies for water, food, and environment*. CABI Books, Londen.p. 157-180
- Droogers, P. J. van Dam, J. Hoogeveen, R. Loeve. 2004. Adaptation strategies to climate change to sustain food security. *In* J. Aerts and P. Droogers (Eds). *Climate change in contrasting river basins: Adaptation strategies for water, food, and environment*. CABI Books, Londen.p. 49-74
- Bastiaanssen, W.G.M., R.G. Allen, P. Droogers, G. D'Urso, and P. Steduto. 2004. Inserting man's irrigation and drainage wisdom into soil water flow models and bringing it back out: how far have we progressed? *In*: R.A. Feddes, G.H. de Rooij and J.C. van Dam (Eds.), *Unsaturated-zone modeling: progress challenges and applications*. Kluwer Academic Publishers. p. 263-299
- Aerts, J. and P. Droogers (Eds). 2004. *Climate change in contrasting river basins: Adaptation strategies for water, food, and environment*. CABI Books, London. 288 p.
- Droogers, P. 2004. Adaptation to climate change to enhance food security and preserve environmental quality: example for Southern Sri Lanka. *Agricultural Water Management* 66: 15-33.
- Ines, A.V.M., Droogers, P., Honda, K. and A.D. Gupta. 2003. Stochastic data assimilation technique in regional hydrology. *Geographical Research Abstracts*. Vol. 5, 03232.
- Droogers, P., R.S. Malik, J.G. Kroes, W.G.M. Bastiaanssen, and J.C. van Dam. 2003. Future water management in Sirsa district: options to improve water productivity. p. 135-156. *In*: J.C. van Dam and R.S. Malik (Eds.) *Water productivity of irrigated crops in Sirsa district, India*. Wageningen UR and CCS Haryana Agricultural University.
- Kroes, J.G., P. Droogers, R. Kumar, W. Immerzeel, R.S. Khatri, A. Roelevink, H.W. ter Maat, and D.S. Dabas. 2003. A regional approach to model water productivity. p. 101-119. *In*: J.C. van Dam and R.S. Malik (Eds.) *Water productivity of irrigated crops in Sirsa district, India*. Wageningen UR and CCS Haryana Agricultural University.
- Bastiaanssen, W.G.M., J.C. van Dam, and P. Droogers. 2003. WATPRO Introduction. p. 11-20. *In*: J.C. van Dam and R.S. Malik (Eds.) *Water productivity of irrigated crops in Sirsa district, India*. Wageningen UR and CCS Haryana Agricultural University.
- Droogers, P. and J. Aerts. 2003. Adaptation strategies to climate change and climate variability: a comparative study between seven contrasting river basins. *Physics and Chemistry of the Earth*. (submitted)
- Ines, A.V.M., Gupta, A.D., Droogers, P. and K. Honda. 2003. Genetic Algorithms in assimilating agro-hydrological model parameters. *In* Ganouris, J., Prinos, P., Korfiatis, G. and Chistodoulou, G. (Eds.), *Proceedings of the*

- XXX IAHR Congress. IAHR, Tesseloniki, Greece. Theme D: 55-62.
- Kayam, Y., M. Beyazgul, P. Droogers. 2002. A model approach to evaluate irrigation system water balance: an example from the Gediz Basin, Turkey. *International Journal of Water*, Vol. 2, Nos. 2/3: 123-137.
- Ines, Droogers P. 2002. Obtaining non-observable RS data from RS, using a combined model and Genetic Algorithm approach. IAHS Red Books (in press).
- M. Torabi, H.R. Salemi, P. Droogers, M. Akbary. 2002. Assessment of improved water and salinity management by integrated basin scale and field scale modeling. In *Proceedings of 18th Congress on Irrigation and Drainage, ICID*. Montreal, Canada 21-28 July 2002.
- Ines, V.M. and P. Droogers. 2002. Inverse modeling to quantify irrigation system characteristics and operational management. *Irrigation and Drainage Systems* 16: 233-252.
- Ines, V.M. and P. Droogers. 2002. Inverse modelling in estimating soil hydraulic functions: a genetic algorithm approach. *Hydrology and Earth System Sciences* 6: 49-65.
- Droogers, P., and R.G. Allen. 2002. Estimating reference evapotranspiration under inaccurate data conditions. *Irrigation and Drainage Systems* 16: 33-45.
- Droogers, P., and G.W. Kite, 2002. Remotely sensed data used for modeling at different hydrological scales. *Hydrological Processes* 16: 1543-1556.
- Droogers, P., and W.G.M. Bastiaanssen. 2002. Irrigation performance using hydrological and remote sensing modeling. *Journal of Irrigation and Drainage Engineering* 128: 11-18.
- Bastiaanssen, W.G.M. and P. Droogers, 2001. Interactive hydrology and remote sensing models for irrigation performance assessment and water accounting studies. In Stein, Jetten and Schut (eds.) *A forum of methodology, Proc. of a PE&RC seminar series 2001*, The C.T. de Wit Graduate School for Production Ecology & Resource Conservation, Quantitative Approaches in Systems Analysis no. 23: 91-106.
- Droogers, P., and W.G.M. Bastiaanssen. 2001. Combining remote sensing and hydrological models to enhance spatial and temporal variability. *Remote Sensing and Hydrology 2000*. (Proceedings of a symposium held at Santa Fe, New Mexico, USA, April 2000). IAHS Red Books 267: 574-579.
- Droogers, P., H.R. Salemi, and A.R. Mamanpoush. 2001. Exploring basin scale salinity problems using a simplified water accounting model: the example of Zayandeh Rud Basin, Iran. *Irrigation and Drainage* 50: 335-348.
- Droogers, P., and W.G.M. Bastiaanssen. 2001. Evaporation estimates using a combined hydrological model and RS approach. *Physics and Chemistry of the Earth* (in press).
- Droogers, P., and G. Kite. 2001. Simulation modeling at different scales to evaluate the productivity of water. *Physics and Chemistry of the Earth* 26: 877-880.
- Droogers, P., M. Torabi, M. Akbari, and E. Pazira. 2001. Field scale modeling to explore salinity in irrigated agriculture. *Irrigation and Drainage* 50: 77-90.
- Lacroix, M., G. Kite, and P. Droogers. 2000. Using public-domain datasets to model the Kucuck Menderes Basin, Turkey. *Remote Sensing and Hydrology 2000*. (Proceedings of a symposium held at Santa Fe, New Mexico, USA, April 2000). IAHS Red Books 267: 601-604.
- Droogers, P., G.W. Kite, H. Korkmaz, and O. Acar, 2000. Using remotely sensed data for hydrological modeling at different spatial scales. In *Proceedings of Application of Remote Sensing in Hydrology*. Santa Fe, New Mexico, USA, 4-6 November 1998. National Water Research Institute, Canada. p. 41-50.
- Kite, G., P. Droogers, and K. de Voogt. 2000. Climate change, water supply and crop production. In *Proceedings of International Conference on Integrated Water Resources Management for Sustainable Development*. 19-21 Dec 2000, New Delhi, India. p 1055-1062.
- Voogt, de K., G. Kite, P. Droogers, and H. Murray-Rust. 2000. Modelling water allocation between a wetland and irrigated agriculture in the Gediz Basin, Turkey. *Water Resources Development* 16: 639-650.
- Droogers, P. 2000. Estimating actual evapotranspiration using a detailed agro-hydrological model. *J. of Hydrology* 229: 50-58.
- Kite, G.W., and P. Droogers. 2000. Comparing evapotranspiration estimates from satellites, hydrological models and field data. *J. of Hydrology* 229: 3-18.
- Kite, G.W., and P. Droogers. 2000. Preface, Special Issue *Journal of Hydrology* on Comparing evapotranspiration estimates from satellites, hydrological models and field data. *J. of Hydrology* 229: 1-2.
- Droogers, P., G. Kite, and H. Murray-Rust. 2000. Use of simulation models to evaluate irrigation performance including water productivity, risk and system analyses. *Irrigation Science* 19: 139-145.
- Droogers, P., W.G.M. Bastiaanssen, M. Beyazgül, Y. Kayam, G.W. Kite, and H. Murray-Rust. 2000. Distributed agro-hydrological modeling of an irrigation system in western Turkey. *Agricultural Water Management* 43: 183-

- Droogers, P., G. Kite, and W.G.M. Bastiaanssen 1999. Integrated basin modeling to evaluate water productivity. In Proceedings of 17th Congress on Irrigation and Drainage, ICID. Granda, Spain, 11-19 September. Vol 1A: 1-13.
- Droogers, P., G.W. Kite, and W. Bastiaanssen. 1999. Land cover classification using public domain datasets: example for Gediz Basin, Turkey. In Proceedings of International Symposium on Arid Region Soils. Menemen, Turkey, 21-25 September 1998. p 34-40
- Bouma, J., and P. Droogers. 1999. Comparing different methods for estimating the soil moisture supply capacity of a soil series subjected to different types of management. *Geoderma* 92: 185-197.
- Droogers, P., and G. Kite, 1999. Water productivity from integrated basin modeling. *Irrigation and Drainage Systems* 13: 275-290.
- Kite, G.W. and P. Droogers. 1999. Irrigation modelling in a basin context. *Water Resources Development* 15: 43-54.
- Bouma, J., P. Droogers, and P. Peters. 1999. Defining the "ideal" soil structure of a typical fluvaquent. *Soil Sci. Soc. Am. J.* 63: 343-348.
- Stein, A., P. Droogers, and H. Booltink. 1998. Point processes and random sets for analysing patterns of methylene blue coloured soil. *Soil & Tillage Research* 46, 273-288.
- Bouma, J., and P. Droogers. 1998. A procedure to derive land quality indicators for sustainable agricultural production. *Geoderma* 85: 103-110.
- Droogers, P., A. Stein, J. Bouma, and G. de Boer. 1998. Describing macro-porosity derived from staining patterns under field conditions. *Geoderma* 83: 293-308.
- Booltink, H.W.G., J. Bouma, and P. Droogers. 1998. Use of fractals to describe soil structure. p. 157-193 In H.M. Selim and L. Ma (eds.) *Physical nonequilibrium in soils: modeling and application*. Ann Harbor Press. Chelsea, Michigan.
- Cuenca, R.H., J. Brouwer, A. Chanzy, P. Droogers, S. Galle, S.R. Gaze, M. Sicot, H. Stricker, R. Angulo-Jaramillo, S.A. Boyle, J. Bromley, A.G. Cchebhouni, J.D. Cooper, A.J. Dixon, J.C. Fies, M. Gandah, J. Gaudu, L. Laguerre, J. Lecocq, M. Soet, H.J. Steward, J.P. Vandervaere, and M. Vauclin. 1997. Soil measurements during HAPEX-Sahel intensive observation period. *J. of Hydrol.* 188-189: 224-266.
- Droogers, P., F.B.W. van der Meer, and J. Bouma. 1997. Water accessibility to plant roots in different soil structures occurring in the same soil type. *Plant and Soil* 188: 83-91.
- Droogers, P. and J. Bouma. 1997. Soil survey input in exploratory modeling of sustainable soil management practices. *Soil Sci. Soc. Am. J.* 61: 1704-1710.
- Droogers, P. 1997. Time aggregation of nitrogen leaching in relation to critical threshold values. *J. of Contaminant Hydrology.* 30: 363-373.
- Droogers, P. 1997. Effects of spatial and temporal variability on simulated transpiration ratios. *J. of Hydrology.* 203: 185-193.
- Droogers, P. 1997. Quantifying differences in soil structure induced by farm management. PhD thesis. Wageningen Agricultural University.
- Bouma, J., and P. Droogers. 1997. Soil quality: an agronomic perspective (In Dutch). *Bodem* 3: 96-97.
- Booltink, H.W.G., P. Droogers, and J. Verhagen. 1997. The modified WAVE model. In M.C. Plentinger and F.W.T. Penning de Vries (ed.) *Rotation models for ecological farming. Quantitative approaches in system analysis*, No. 10. AB-DLO, PE, Wageningen
- Bastiaanssen, W.G.M., H. Pelgrum, P. Droogers, H.A.R. de Bruin, and M. Menenti. 1997. Area-average estimates of evaporation, wetness indicators and top soil moisture during two golden days in EFEDA. *Agricultural and Forest Meteorology* 87: 119-137.
- Droogers, P., and J. Bouma. 1996. Biodynamic vs. conventional farming effects on soil structure expressed by simulated potential productivity. *Soil Sci. Soc. Am. J.* 60: 1552-1558.
- Droogers, P., A. Fermont, and J. Bouma. 1996. Effects of ecological soil management on workability and trafficability of a loamy soil in the Netherlands. *Geoderma* 73: 131-145.
- Van Dam, J.C., J.N.M. Stricker, and P. Droogers. 1994. Inverse method to determine soil hydraulic functions from multistep outflow experiments. *Soil Sci. Soc. Am. J.* 58: 647-652.
- Feddes, R.A., G.H. De Rooy, J.C. Van Dam, P. Droogers, and J.N.M. Stricker. 1993. Estimation of regional effective soil hydraulic parameters by inverse modelling. p. 211-231. In D. Russo, and G. Dagan (ed.) *Water flow and solute transport in soil*. Springer-Verlag, Berlin.
- Stricker, J.N.M., C.P. Kim, R.A. Feddes, J.C. van Dam, P. Droogers, and G.H. de Rooy. 1993. The terrestrial

hydrological cycle. p. 419-444. In E. Raschke, and D. Jacob (ed.) Energy and water cycles in the climate system. NATO-ASI series, vol. I 5.

Van Dam, J.C., J.N.M. Stricker, and P. Droogers. 1992. Inverse method for determining soil hydraulic functions from one-step outflow experiments. Soil Sci. Soc. Am. J. 56: 1042-1050.

Technical Reports

Droogers, P., W. Terink en J. van Bakel. 2010. Klimaatadaptieve Drainage: Een innovatieve methode om piekafvoeren en watertekorten te verminderen. Bijlagen bij Eindrapportage Haalbaarheidsonderzoek. FutureWater Report 95.

Droogers, P., W. Terink en J. van Bakel. 2010. Klimaatadaptieve Drainage: Een innovatieve methode om piekafvoeren en watertekorten te verminderen. FutureWater Report 96.

Droogers, P., M. Soet, H. van Schaik, M. Witmer. 2010. Integrating Climate Change Adaptation into Development Co-operation for the Water Sector. FutureWater Report 97.

Droogers, P., W.W. Immerzeel. B. Berhanu. 2010. Preliminary Data Compilation for the Nile Basin Decision Support System: FINAL REPORT. FutureWater Report 93.

Droogers, P., W.W. Immerzeel. 2010. Preliminary Data Compilation for the Nile Basin Decision Support System: ANALYSIS REPORT. FutureWater Report 92.

Droogers, P. N. van de Giesen. 2010. Food and Water: Analysis of potentially new themes in water management - future trends and research needs. FutureWater Report 91.

Hunink, J.E., T. Veenstra, W. van der Hoek, P. Droogers, 2010. Q fever transmission to humans and local environmental conditions. FutureWater report 90.

Schuurmans, H., H. Niewold, G. van den Eertwegh, P. Droogers. 2010. NBW-actueel: ontwikkeling methode voor wateropgaven met een bandbreedte. H2O Tijdschrift voor watervoorziening en waterbeheer 2010-1: 25-29.

Immerzeel, W.W., H. Goosen, M. de Groot, P. Droogers. 2010. Klimaat Atlas: ontwikkeling wateroverlastkaarten. H2O Tijdschrift voor watervoorziening en waterbeheer 2010-10: 33-36.

Droogers, P., W.W. Immerzeel. 2010. Wat is het beste model? H2O Tijdschrift voor watervoorziening en waterbeheer 2010-4: 38-41.

Schuurmans, J.M., P. Droogers. 2009. Methode ontwikkeling voor het bepalen van wateropgaven: kansen en betrouwbaarheid. FutureWater rapport 89

Hunink, J.E., P. Droogers, 2009. Human transmission risk of Q fever and local environmental conditions in the Netherlands. FutureWater report 89

Immerzeel, W.W., P. Droogers, 2009, Impacts of Global Climate Change on the Water Resources of the Bunyala plains. FutureWater report 88.

Immerzeel, W.W., J.M. Schuurmans, P. Droogers, G. d'Urso, C. de Michele, F. Vuolo, L. Changming, M. Menenti, 2009, CEOP-AEGIS: Model selection for the Tibetan plateau water balance monitoring system. CEOP AEGIS technical report, Strasbourg, France

Droogers, P., W.W. Immerzeel. 2009. Preliminary data compilation for the Nile Basin Decision Support System: INCEPTION REPORT. FutureWater Report 87

Schuurmans, J.M., Droogers, P. 2009. Penman-Monteith referentieverdamping: Inventarisatie naar mogelijkheden tot ruimtelijke regionalisatie. FutureWater Report 86

Droogers, P. 2009. Climate Change and Hydropower, Impact and Adaptation Costs: Case Study Kenya. FutureWater Report 85.

Hunink, J.E., W. Immerzeel, P. Droogers. 2009. Green Water Credits for the Upper Tana Basin, Kenya. Phase II – Pilot Operations: Biophysical assessment using SWAT. FutureWater Report 84.

Droogers, P., Schuurmans, J.M. 2009. Brede weerverzekering: natschade en droogteschade. FutureWater rapport 83.

Hermans, E., P. Droogers en W.W. Immerzeel, 2009. Uitbreiding modelinstrumentarium en scenario analyse Quarles van Ufford. FutureWater rapport 81.

Hunink, J.E., W.W. Immerzeel, P. Droogers. 2009. Green Water Credits for the Upper Tana Basin, Kenya. Phase II –

Pilot Operations: Biophysical assessment using SWAT. Report FutureWater: 84

- Droogers, P. 2009. Verbetering bepaling actuele verdamping voor het strategisch waterbeheer: definitiestudie. STOWA, Rapportnummer 2009-11
- Droogers, P. 2009. Verbetering bepaling actuele verdamping voor het strategisch waterbeheer: definitiestudie. FutureWater rapport 82.
- Hermans, E., P. Droogers en W.W. Immerzeel, 2009. Uitbreiding modelinstrumentarium en scenario analyse Quarles van Ufford. FutureWater rapport 81.
- Droogers, P. W. Bastiaanssen, 2008. Irrigation Potential Lake Victoria, Tanzania, Mara Valley, Bugwema, Isanga, Manonga, Mgono. Report WaterWatch
- Droogers, P. 2008. Verbetering bepaling actuele verdamping voor het strategisch waterbeheer: definitiestudie. FutureWater report 82.
- Droogers, P., C. Perry, W.W. Immerzeel. 2008. Application of Remote Sensing in National Water Plans: Demonstration cases for Egypt, Saudi-Arabia and Tunisia. FutureWater report 80.
- Droogers, P., C. Perry. 2008. Scenario Based Water Resources Model to Support Policy Making. FutureWater report 79.
- Droogers, P., W.W. Immerzeel. 2008. Managing the real water consumer: evapotranspiration. FutureWater report 78.
- Droogers, P. 2008. Wateropgave droogte KNMI'06 klimaatscenario's, Hunze en Aa's. FutureWater rapport 75.
- Hermans, E., P. Droogers, H. Winsemius. 2008. Groundwater management and evaluation: state of the art illustrated for Northern China. FutureWater Report 74.
- Immerzeel, W.W., P. Droogers. 2008. Klimaatverandering en lokale wateroverlast ten gevolge van extreme neerslag in Nederland. FutureWater Report 73.
- Droogers, P., J.H. Kauffman, J. Huting. 2007. Green and Blue Water Services in Tana River Basin, Kenya. Refinement of basin hydrology assessments. Report FutureWater.
- Kauffman J.H., P. Droogers, E. Odada, P. Macharia, P. Gicheru, K. Dijkshoorn. 2007. Green and Blue water Services in Tana River Basin, Kenya. Baseline information report - Assessment of improved soil and water management scenarios using an integrated modelling framework. Green Water Credits Report 3, ISRIC Report 2007/xx, Wageningen.
- Van Loon, A.F., P. Droogers, 2007, Klimaatverandering en adaptatie: Inventarisatie onderzoeksprojecten ten behoeve van ARK. FutureWater publicatie
- Droogers, P., W.W. Immerzeel. 2007. Verdieping en verbreding verkenning innovaties. Innovatie Water en Ruimtelijke Ordening. FutureWater report 72.
- Immerzeel, W., P. Droogers and A. Gaur. 2007. Remotely Sensed Based Hydrological Model Calibration for Basin Scale Water Resources Planning, Embedding case for Krishna Basin, India. FutureWater report 69.
- Droogers, P, I. Immerzeel, H. Schoonderwoerd. 2007. Klimaatverandering en bossen: Modelanalyse voor landgoed Slangenburg. FutureWater report 68.
- Immerzeel, W. and P. Droogers. 2007. Invloed van Klimaatverandering op het Gelderse bos. FutureWater report 67.
- Droogers, P. and A. Van Loon. 2007. Soil Water Assessment Tool, Gediz basin – Turkey. WatManSup report no. 6. FutureWater report 66.
- Van Loon, A., H. Mathijssen and P. Droogers. 2007. Water Evaluation And Planning System, Gediz basin – Turkey. WatManSup report no. 5. FutureWater report 65.
- Van Loon, A. and P. Droogers. 2007. Soil Water Assessment Tool, Kitui – Kenya. WatManSup report no. 3. FutureWater Report 64.
- Immerzeel, WW. C.C. Van Heerwaarden, P. Droogers, 2007, FutureViewR: gedetailleerd hydrologisch en oppervlaktewater model getest op Quarles van Ufford, FutureWater rapport, Arnhem, 62p.
- Droogers, P., J.H. Kauffman, W.W Immerzeel, J.A. Dijkshoorn and J.R.M. Huting. 2006. Green and blue water services in Tana river basin, Kenya, exploring options using an integrated modeling framework. FutureWater Report 54.
- Droogers, P., S. Mantel and J.H. Kauffman. 2006. River basin models to support Green Water Credit assessment. FutureWater Report 53.
- Droogers, P., J.H. Kauffman, J.A. Dijkshoorn, W.W. Immerzeel and J.R.M. Huting. 2006. Green Water Credits: Basin identification. Green Water Credits Report 1. ISRIC Report 2006/04. ISRIC Wageningen.
- Droogers, P., Immerzeel, W.W. 2006. Calibration Methodologies in Hydrological Modeling: State of the Art.

FutureWater Report 56.

- Graafstal, H., P. Droogers, 2006, Modeling climate change impact on forests: an overview, FutureWater Report 51.
- Immerzeel, W.W., P. Droogers and A. Gieske. Remote Sensing and Evapotranspiration Mapping: State of the Art. FutureWater, Research Paper Krishna No. 1. <http://www.futurewater.nl/Krishna>
- Van Loon A., R. Lasage, H. Mathijssen, P. Droogers. 2006. Water Management Support Methodologies: State of the Art. FutureWater, WatManSup Research Report No 1. <http://www.futurewater.nl/watmansup>. FutureWater Report 63
- Van Loon, A., P. Droogers. 2006. Berekening openwaterverdamping. FutureWater rapport.
- Droogers, P. 2006. Mogelijkheden regelbare stuw Olstertocht, Oostelijk Flevoland. FutureWater rapport.
- Claassen, T., P. Droogers. 2006. Klimaatverandering beïnvloedt ook de waterkwaliteit. Trends in water 20.
- Loeve, R., P. Droogers, J. Veraart. 2006. Klimaatverandering en waterkwaliteit. Rapport FutureWater en Wetterskip Fryslân.
- Loeve, R., T. Claassen, P. Droogers. 2006. Klimaatverandering en waterkwaliteit. H2O Tijdschrift voor watervoorziening en waterbeheer 22: 19-22.
- Droogers, P. en B. van den Hurk. 2006. Waterbeheer en de nieuwe KNMI klimaatscenario's. H2O Tijdschrift voor watervoorziening en waterbeheer nr. 12, pp. 25-28.
- Droogers, P. en J. den Besten. 2006. Droogte- en natschade onder wijzigende afvoernormen. H2O Tijdschrift voor watervoorziening en waterbeheer 4:31-34.
- Droogers, P. en Loeve, R. 2005. Natschade bij optimale afwatering. Waterschap Hunze en Aa's. FutureWater rapport, Wageningen, 41p
- Soppe, R.; Bastiaanssen W.M.G. Immerzeel W.W. Droogers, P. 2005. Water Resources Analysis of the Hai Basin in 2003 and Implications for Water Management, WaterWatch rapport, Wageningen, 54p
- Immerzeel, W.W. en Droogers, P. 2005. Exploring evaporation reduction in the Hai basin using the SWAT model. WaterWatch. FutureWater intern rapport, Wageningen, 24p
- Rojas, A. and Droogers, P. 2005. Adapting to Climate Change in South-East Asia: Identification of possibilities for cooperation. Mission Report, 30p
- Droogers, P.; Immerzeel, W.W. en Loeve, R. 2005. Wateropgave droogte Waterschap Hunze en Aa's: West en Midden. Waterschap Hunze en Aa's. FutureWater rapport, Wageningen, 53p. [STOWA Hydrotheek publicatie]
- Droogers, P.; Immerzeel, W.W. en Loeve, R. 2005. Wateraanvoer en droogte: Analyse van de huidige situatie en de te verwachten invloed van klimaatverandering. Waterschap Hunze en Aa's. FutureWater rapport, Wageningen, 56p
- Droogers, P. 2005. Pakistan: National Drainage Program Project Left Bank Outfall Drain; Remote Sensing Analysis, Rainfall, Risk Assessment. Inspection Panel World Bank, 30p
- Bastiaanssen, W.G.M.; Zwart S.; Immerzeel, W.W. Droogers, P. 2005. Agrohydrologische analyse zuidelijk en oostelijk Flevoland, WaterWatch rapport, Wageningen, 85p
- Immerzeel, W.W. en Droogers, P. 2005. Agrohydrologische analyse zuidelijk en oostelijk Flevoland. WaterWatch. Intern FutureWater rapport, Wageningen, 32p
- Droogers, P. 2005. Groundwater Irrigation Efficiency in Saudi Arabia. FutureWater report, Wageningen, 13p
- Immerzeel, W.W. and Droogers, P. 2005. Exploring evaporation reduction options in the Hai Basin; Analyses using the SWAT model. The World Bank. FutureWater report, Wageningen, 85p
- Droogers, P. en Loeve, R. 2005. Positieve en negatieve effecten van drainage; een analyse in het kader van "Eindadvies Berging en Afvoer" voor Wetterskip Fryslân. Wetterskip Fryslân. FutureWater rapport, Wageningen, 87p
- Droogers, P.; Schoonderwoerd, H.; Japink, M. en Immerzeel, W.W. 2005. Hydrologisch vooronderzoek Landgoed Santhorst. Bosgroep Midden-Nederland. Silve en FutureWater rapport, Wageningen, 27p
- Droogers, P.; Dam, J. van en Loeve, R. 2005. Vermindering van veenwater uitspoeling: een 2D modelanalyse. Hoogheemraadschap van Rijnland. FutureWater rapport, Wageningen, 59p
- Droogers, P. en Immerzeel, W.W. 2005. Wateropgave droogte Waterschap Hunze en Aa's: Westerwolde. Waterschap Hunze en Aa's. FutureWater rapport, Wageningen, 56p. [STOWA Hydrotheek publicatie]
- Droogers, P. en Immerzeel, W.W. 2005. Regionale analyse droogte: Een analyse van huidige wateraanvoer en wateropgave 2050. Waterschap Hunze en Aa's. FutureWater rapport, Wageningen, 56p

- Heerwaarden, C.C. van; Droogers, P. en Loeve, R. 2005. Kwel en wegzijging langs de grote rivieren. Een nieuwe modelmatige aanpak. BSIK project Klimaat voor Ruimte. FutureWater rapport, Wageningen, 55p
- Droogers, P. en Loeve, R. 2004. Gecorrigeerde Hoogtekaart Waterschap Zuiderzeeland. Waterschap Zuiderzeeland. FutureWater Rapport, Arnhem, 15p
- Droogers, P. en Loeve, R. 2004. Regionale analyse van mogelijkheden tot vasthouden van water in het beheersgebied van Waterschap Zuiderzeeland. Waterschap Zuiderzeeland. FutureWater rapport, Arnhem, 66p
- Bersselaar, van den D., M. Jaarsma, R. Loeve, P. Droogers. 2004. Mogelijkheden tot vasthouden van water in Flevoland. H2O Tijdschrift voor watervoorziening en waterbeheer 24:21-24.
- Droogers, P., R. Loeve, B. van den Hurk. 2004. De (on)zekerheid van klimaatverandering. H2O Tijdschrift voor watervoorziening en waterbeheer 19: 85-88.
- Meijer, F., M. Jaarsma, R. Loeve, P. Droogers. 2004. Vasthouden van water met regelbare stuwen. H2O Tijdschrift voor watervoorziening en waterbeheer 12:24-27.
- Aerts, J., R. Lasage, P. Droogers. 2003. ADAPT, A framework for evaluating adaptation strategies. Report number R-03/08. Institute for Environmental Studies (IVM), Vrije Universiteit Amsterdam.
- Ines, A.V.M., Clemente, R., Droogers, P., Gupta, A.D. and K. Honda. 2003. Exploring water management options using Genetic Algorithms: A case study of Bata Minor, Kaithal, Haryana, India. In Takara, K. and Kojima, T. (Eds.). Proceedings of the First International Conference on Hydrology and Water Resources in Asia Pacific Region. APHW, Japan. 2:933-938.
- Droogers, P. en R. Loeve. 2003. Vasthouden en bergen: de mogelijkheden van regelbare stuwen. Opdrachtgever: Waterschap Zuiderzeeland. Rapport FutureWater, Arnhem.
- Droogers, P., J. van Dam, J. Hoogeveen, R. Loeve. 2003. Adaptation Strategies to Climate Change to Sustain Food Security. In: J. Aerts and P. Droogers (Eds.) Climate change in contrasting river basins. CABI Books, Londen. (in press)
- Droogers, P. 2003. Modellen instrumentarium voor het Waterschap Zuiderzeeland. Opdrachtgever: Waterschap Zuiderzeeland. Rapport FutureWater, Arnhem.
- Droogers, P. 2003. Climate Change Impact and Adaptation on Water, Food, and Environment in Walawe Basin, Sri Lanka. IWMI Working Paper. International Water Management Institute, Sri Lanka. (submitted)
- Droogers, P. 2003. Water, food, climate: impact, projections and challenges. IWMI Research Report. International Water Management Institute, Sri Lanka. (submitted)
- Droogers, P., and J.C. van Dam. 2003. Field scale adaptation strategies to climate change to sustain food security: a modeling approach across seven contrasting basins. IWMI Working Paper. International Water Management Institute, Sri Lanka. (submitted)
- Droogers, P. 2003. Water for food in the context of climate change. In: Pavel Kabat and Henk van Schaik (eds.). Climate changes the water rules. Published by Dialogue on Water and Climate, Netherlands.
- Murray-Rust, H., P. Droogers, A. Gieske, M. Akbari, M. Torabi, A.R. Mamanpoush, M. Miranzadeh, H.R. Salemi. 2003. Scenario Assessment for Water Management Options in Zayandeh Rud Basin, Iran. IWMI Research Report. International Water Management Institute, Sri Lanka. (in press)
- Schoonderwoerd, H., and P. Droogers. 2002. Bosvitaliteit op het Landgoed Duindigt: effecten van biotische en abiotische factoren. Silve rapport 02-30.
- Imbulana, K.A.U.S, P. Droogers, and I.W. Makin. World water assessment programme Sri Lanka case study: Ruhuna Basins. Proceedings of a workshop held at Koggala Beach Hotel, Sri Lanka, 7-9 April 2002. International Water Management Institute, Sri Lanka.
- Murray-Rust, H., H.R. Salemi and P. Droogers 2002. Water Resources Development and Water Utilization in the Zayandeh Rud basin, Iran. IAERI-IWMI Research Reports 14.
- Droogers, P. and M. Torabi. 2002. Field scale scenarios for water and salinity management by simulation modelling. IAERI-IWMI Research Reports 12.
- Droogers, P., and M. Miranzadeh. 2000. Spatial Analysis of Groundwater Trends: example for Zayandeh Rud Basin, Iran. IAERI-IWMI Research Reports 9.
- Droogers, P., W.G.M. Bastiaanssen, A. Gieske, N. Toomanian, M. Akbari. 2001. Assessment of irrigation performance using NOAA satellite imagery. IAERI-IWMI Research Reports 7.
- Stanzel, P., A. Öze, V. Smakhtin, E. Boelee, and P. Droogers. 2002. Simulating impacts of irrigation on the hydrology of the Karagan Lagoon in Sri Lanka. IWMI Working Paper 44.
- Ines, A. and P. Droogers. 2002. Crop growth and soil water balance modeling to explore water management options.

IWMI Working Paper 22.

P. Droogers. 2002. Water-boom relaties Parkboszone Amsterdamse Bos. FutureWater rapport. <http://www.futurewater.nl>

P. Droogers. 2002. Water-Bodem-Boom Relaties op Landgoed Duindigt. FutureWater rapport. <http://www.futurewater.nl>

Droogers, P. 2001. Global Irrigated Area Mapping, overview and recommendations. IWMI Working Paper 36.

Hemakumara, M., R. Barker and P. Droogers. 2001. Ruhuna Benchmark Basin Activities. IWMI Working Paper 27.

Droogers, P., D. Seckler and I. Makin. 2001. Estimating the potential of rainfed agriculture. IWMI Working Paper 20.

Droogers, P., and G. Kite, 2001. Estimating productivity of water at different scales using simulation modelling. IWMI Research Report 53.

Kite, G., P. Droogers, H. Murray-Rust, K. de Voogt. 2001. Modeling scenarios for water allocation in the Gediz Basin, Turkey. IWMI Research Report 50.

Droogers, P., H.R. Salemi, A. Mamanpoush. 2000. Exploring basin scale salinity problems using a simplified water accounting model: the example of Zayandeh Rud Basin, Iran. IAERI-IWMI Research Report 5.

Droogers, P., M. Akbari, M. Torabi, E. Pazira. 2000. Exploring field scale salinity using simulation modeling, example for Rudasht area, Esfahan Province, Iran. IAERI-IWMI Research Report 2.

Salemi, H.R., A. Mamanpoush, M. Miranzadeh, M. Akbari, M. Torabi, N. Toomanian, H. Murray-Rust, P. Droogers, H. Sally, A. Gieske. 2000. Water Management for Sustainable Irrigated Agriculture in the Zayandeh Rud Basin, Esfahan Province, Iran. IAERI-IWMI Research Report 1.

Kite, G., and P. Droogers. 2000. Integrated Basin Modeling. IWMI Research Report 43.

Kite, G., and P. Droogers. 2000. Comparison of actual evapotranspiration from satellites, hydrological models and field data. IWMI Research Report 42.

Lacroix, M., G. Kite, and P. Droogers. 2000. Using public-domain datasets to model the Küçük Menderes Basin, Turkey. IWMI Research Report 40.

Voogt, de K., G. Kite, P. Droogers, and H. Murray-Rust. 2000. Modelling water allocation between a wetland and irrigated agriculture in the Gediz Basin, Turkey. IWMI Working Paper 1.

Soet, M., J.N.M. Stricker, P. Droogers, and J. Esenbrink. 1998. EFEDA-Spain and HAPEX-Sahel, A further analysis of data. Dept. of Environmental Sciences, sub-dept. Water Resources, Wageningen Agricultural University. Report no. 79.

Kite, G., and P. Droogers. 1998. Basin water resources management in Turkey. In Anonymous. International Irrigation Management Institute, Annual Report 1997.

Droogers, P., G.D. van de Abeele, J. Cobbaert, C.P. Kim, R. Rösslerová, M. Soet, and J.N.M. Stricker. 1993. Basic data sets description and preliminary results of EFEDA-Spain. Dept. of Water Resources, Wageningen Agricultural University. Report no. 37.

Stricker, J.N.M., J.C. van Dam, and P. Droogers. 1993. Spatial variability of land surface processes under programme: climate. Dept. of Water Resources, Wageningen Agricultural University. Report no. 36.

Stricker, J.N.M., P. Droogers, and M. Soet. 1993. Soil moisture. p. 45-60 In P. Kabat and J.P. Goutorbe (ed.) HAPEX II - SAHEL Final Report. Commission of the European Communities.

Soet, M., P. Droogers, M.N. Jaarsma, C.P. Kim, J.F. Moninx, and J.N.M. Stricker. 1993. HAPEX-Sahel, basic description of methods and datasets. Dept. of Water Resources, Wageningen Agricultural University. Report no. 43.

Kim, C.P., P. Droogers, J.C. van Dam, and J.N.M. Stricker. 1991. Measurement of soil physical properties at the Castelnau site of the HAPEX Mobilhy area. Report Dept. of Hydrology, Soil Physics and Hydraulics, Wageningen Agricultural University.

Droogers, P., J.C. van Dam, and J.N.M. Stricker. 1990. Measurement of soil physical properties at the Lubbon site of the HAPEX Mobilhy area. Report Dept. of Hydrology, Soil Physics and Hydraulics, Wageningen Agricultural University.

Van Dam, J.C., J.N.M. Stricker, and P. Droogers. 1990. From One-step to Multi-step: Determination of soil hydraulic functions by outflow experiments. Dept. of Hydrology, Soil Physics and Hydraulics, Wageningen Agricultural University. Report no. 7.

Van Mourik, C.C.P., and P. Droogers. 1989. The combined ground- and surface-water model MOGROW tested for the Hupsel Catchment. (In Dutch). Institute for Land and Water Management, Wageningen. Report no. 1971.

