

## CURRICULUM VITAE PROF. DR. MARC F.P. BIERKENS (NOVEMBER 1 1965)

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### Education

- MSc. (Cum Laude) 1990 Wageningen University
- Ph.D. 1994 Utrecht University

### Experience and employment record

- July 1988-April 1989: Research Assistant, Department of Land, Air and Water Resources, University of California at Davis
- July 1989 - December 1989: Internship at TNO Institute of Applied Geoscience, Delft, Netherlands
- January 1990 - July 1994: Research Assistant, Department of Physical Geography, Utrecht University, Netherlands
- July 1994 – July 2002: Senior Researcher, Alterra, Wageningen University and Research Centre (WUR), Wageningen, Netherlands.
- November 2000 - December 2001: Team leader, Alterra, Wageningen, Netherlands
- July 2002 – Present: Professor of Geographic Hydrology Utrecht University, Utrecht, Netherlands (0.8). Senior Hydrologist Deltares Netherlands (0.2)
- March 2009- May 2015: Head of department of Physical Geography Utrecht University
- 2015–2017 Coordinator Water, Climate and Ecosystems of UU-wide theme Sustainability

### Awards

- The hydrology Prize of the Netherlands Hydrological Society for the years 1994 to 1997
- EGU Union Keynote entitled "Water of the Earth" as part of the Union Keynote series "Faces of the Earth". April 29, 2014: <http://client.cntv.at/EGU2014/?play=38>
- Fellow of the American Geophysical Union (2016)

### Community Service (selection)

- Membership Netherlands Hydrological Society, EGU (programming committee on groundwater 2002-2007), AGU, IAHS (Vice-president of Int. Committ. on Ground Water 2001-2003)
- Member of Science Advisory Board of GeoEnv 1997 (Valencia), Accuracy 2000 (Amsterdam), HydroEco 2006 (Karlsbad), ModelCARE 2007 (2007), HydroPredict 2008 (Prague), HydroEco 2009 (Karlsbad), 8<sup>th</sup> Leonardo Conference 2016 (Orense, Spain).
- Member of the local organising committee of ModelCARE 2005 held June 6-9 2005, the Hague
- Chief organiser of the International Summer Course "Climate and the Hydrological Cycle", held July 4–July 15 2005 in Utrecht (jointly with Wageningen Un. and VU Amsterdam).
- Chief organizer of the workshop "Hyper-resolution global hydrological modelling: the next step" and organizing the associated network organization HyperHydro.org (2015)
- Associate editor: "Journal of Hydrology" (2003-2011), Hydrology and Earth System Science (2005-2007), Geoderma (since 2007), Water Resources Research (2009-2016)
- Editor Water Resources Research (2017-present)
- Reviewing papers for international journals, e.g. Water Resources Research, Journal of Hydrology, Hydrology and Earth System Science, Journal of Hydrometeorology, Geophysical Research Letters, Nature, Nature Geoscience, Nature Climate Change, PNAS and many other titles.
- Reviewing research proposals for NSF and NERC
- Member of promotion (PhD) committees: 1997-present: > 80 times (including PhD theses from UK, Norway, Denmark, Austria and Australia)
- Member of Appointment committees of 17 professorship positions
- Member of the Hydrological Foresight Study Committee, Royal Netherlands Academy of Sciences, 2003-2004
- Member and chairman NWO-ALW open competition committee (several times), VICI-committee 2007-2008, chairman committees of NWO<sup>1</sup> Water call (2003) and the call New delta (2014).

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<sup>1</sup> NWO: Dutch Science Foundation; NWO-ALW: division Earth and Life Sciences; NWO-GO: Space Application Support Program; NWO VENI/VIDI/VICI scheme: prestigious research grants for excellent researchers.

- Secretary National Study Group on the Application of Statistics in the Earth Sciences (LASSA) (1994-1998), chairman (2001-2003)
- Chairman of the Jury of the 2007-2009 Hydrology Prize awarded by the Netherland Hydrology Society (NHV)
- Chairman of the Boussinesq Center for Hydrology (2005-2011), the Netherlands
- Chairman of the Netherlands Hydrology Society (2012-2017).
- Member of the Scientific Evaluation panel for the Dutch Delta Program (2013, 2014).
- Member of the Scientific Counsel of ITC (2005-2010); 2-times research evaluation committee.
- Member of the Scientific Council of the research Institute Deltares (2005-present)
- Member of the Scientific Evaluation panel for the Dutch Delta Program (2013, 2014)
- Member of Program Committee for the TKI Deltatechnology Topsector Water (2014-present)
- Member of the Scientific Advisory Committee of the Dutch National Water Model (2016-present)
- Member of the Jury for the AGU Langbein Lecturer (2014-now).

#### **PhD thesis advisor and promoter**

- 21 completed PhD theses (2002-present); 12 PhD-students on going.

#### **Invited talks (selection 2007-2017):**

- Invited speaker at the mini-symposium "Excursions into ecohydrology" organised by UNESCO-IHE and the Boussinesq Centre for Hydrology on the occasion of the Darcy Lecture 2007
- Invited lecture entitled "Land surface-atmosphere interactions featuring the role of vegetation and groundwater" held at ETH Zurich on May 25, 2007
- Keynote Lecture at "ModelCARE 2007", Copenhagen, September 9-13 2007
- Keynote Lecture at "GeoENV 2008", Southampton (K), September 8-10, 2008
- Keynote Lecture at "HydroEco 2009" Vienna, Austria
- EGU Union Keynote entitled "Water of the Earth" at EGU 2014
- Keynote lecture at 2014 Wetsus international conference
- Keynote Lecture at the 3rd Conference on Modelling Hydrology, Climate and Land Surface Processes, September 2015, Lillehammer, Norway.
- Invited Lecture at the 59<sup>th</sup> IAEA General Conference, September 17 2015 Vienna, Austria.
- Invited Lecture given at a water event organized by the Global water Practice at the World Bank Group, October 29 2015, Washington DC, USA.
- Invited lecture at the Symposium in honour of Eric Wood at Princeton University, June 3, 2016
- Invited lecture in CUASHI Cyber Seminar Series, September 20, 2017
- Several solicited talks at EGU and AGU (2007-2018)

#### **Funded Research projects (funding source/role) over period 2007-2017:**

- Postdoc: thermo-dynamical conspiracy of the Himalaya's (NWO Casimir programme/advisor)
- PhD: Multi-satellite and multi-sensor application for large-scale groundwater assessment (NWO-GO/PI)
- PhD: Facility for global assessment of hydrological effects of climate change (Deltares/PI)
- PhD: Global seasonal forecasting of River discharge (Deltares/PI)
- PhD: Modelling past and future global water stress (UU F&M/PI)
- PhD: Climate and vegetation shifts during Roman Classical period (UU F&M/promoter)
- PhD: Limits to global groundwater consumption (NWO-ALW/PI)
- Postdoc: Quantifying the Water Tower of the Third Pole (NWO VENI-scheme/advisor)
- Postdoc: GLOWASIS - (European Union FP7/WP leader)
- PhD: Monitoring Strategy for Hydrogeological parameters (TNO/promoter)
- Postdoc: Water2Invest.com (European Institute of Technology Climate KIC/PI)
- Postdoc: Data-Intensive Modeling of the Global Water Cycle: Bringing the 4th Paradigm to Hydrology (NWO high-performance computing programme/advisor)
- PhD: The effect of mega-nourishments on freshwater reserves (NWO-STW/PI and WP leader)
- PhD: Regional downscaling global water resources models. Earth<sub>2</sub>Observe (EU FP7/promotor).
- Postdoc: Global hydrology and water resources re-analysis. Earth<sub>2</sub>Observe (EU FP7/PI).
- Postdoc: Past and future anthropogenic impact of anthropogenic changes to the water cycle on regional and global climate (UU Sustainability/PI)
- PhD: Fresh groundwater reserves in 40 major deltas under global change (NWO–New Delta/PI)
- PhD1: Rapid regional mapping of salt-fresh water distributions; PhD2: Rapid modelling and scenarios for strategic policy development (NWO/STW Water Nexus/PI and WP leader).
- Postdoc: Global flood analyzer (World Resources Institute/PI).
- Postdoc: Groundwater risk and update Aqueduct Atlas (World Resources Institute/PI).
- Postdoc: Groundwater-related failure risks of river dikes (NWO-STW)