

CURRICULUM VITAE L.P.H. VAN BEEK

Personal information

Surname: Van Beek
First name: Rens
Christian names: Ludovicus Petrus Henricus
Profession: Hydrologist
Date of birth: March 24, 1969
Nationality: Dutch
Civil status: Married

Employer

Name: Utrecht University, Department of Physical Geography
Address: PO Box 80.115, NL-3508 TC Utrecht, The Netherlands
Phone: + 31 (0)30 253 2776
Fax: + 31 (0)30 253 1145
Email: r.vanbeek@uu.nl

Education

PhD in Physical Geography from Utrecht University, Cert. 06-05-2002:

Title: Assessment of the influence of changes in land use and climate on landslide activity in a Mediterranean environment.
Advisors: Prof. Dr J.D. Nieuwenhuis (promotor), Dr Th.W.J. Van Asch (co-promotor)

MSc in Physical Geography from Utrecht University, 1987-1993, Cert. 31-08-1993:

Specialisation: Process studies in Denudative Environments
Major subjects: Soil mechanics, Engineering Geology, Prehistory, Quaternary Geology
Thesis: The mass movement complex of la Valette (France): Hydrological behaviour and dynamic stability

Key Qualifications

- Research experience in dynamic geospatial modelling, global-scale hydrology and water resources assessment, land surface hydrology, geomorphology, soil mechanics and hydro-ecology;
- Experience in consulting earth scientists, archaeologists and ecologists on issues of hydrology, land degradation and slope stability;
- Experience in acquisition and management of research projects.

- Developer of the meso-scale landscape dynamics model CALEROS;
- Principal developer of the global hydrological model PCR-GLOBWB;
- Developer of the hillslope hydrology and stability model STARWARS;
- Work package leader in EU-F6: "Carbo-North -Quantifying the carbon budget of Northern Russia: past, present and future". Assessment of riverine carbon fluxes;
- Work package leader in the EU FP-6 Eco-Slopes project (QLRT-2000-00289). Coordination of the work package on slope stability modelling and development of the Eco-Slopes DSS with respect to soil eco-engineering;
- Collaborator in the EU-FP 7 Glowasis project on drought forecasting;
- Consultant to Deltares and PBL in relation to flood modelling (GLOFRIS) and biodiversity modelling (GLOBIO).

Teaching Experience

- Course on Land Surface Hydrology
- Course on Catchment Modelling
- Course on Land Degradation
- Student lectures in Hydrology, Climate and River Systems (Utrecht)
- Student lectures on spatial modelling for environmental sciences (Utrecht)
- Student lectures on large-scale hydrological modelling for earth and life sciences (University of Amsterdam)
- Student lectures on hydrological triggering of landslides (ITC)
- Student lectures on slope stability for earth sciences (University of Amsterdam)
- Student lectures on landslides for disaster management studies (Coventry University)
- Student lectures on slope stability for civil engineering (Coventry University)
- Student lectures and practicals on macroscopic petrology (Utrecht)
- Excursion Quaternary Geology: Italy, Netherlands-Belgium-France (Utrecht)
- Excursion Earth Sciences: Ardennes (Utrecht)
- Excursion Geomorphology: Ardennes-Vosges (University of Amsterdam)
- External examiner of MSc Theses (ITC, Twente)

Employment

Current

2007 – present: Assistant Professor in Large-Scale Hydrology and Earth Surface Processes at the Department of Physical Geography, Utrecht University

Past

2004 –2007: Post-doctoral researcher working on large-scale hydrological modelling at the Hydrology Section of the Department of Physical Geography, Utrecht University.

2001 –2004: Post-doctoral researcher at the Department of Physical Geography, University of Amsterdam.

2000-2001: Research assistant at the School of the Built Environment, Coventry University.

1995 – 2000: PhD researcher at the Department of Physical Geography, Utrecht University.

1994 – 1995: Research assistant at the Department of Physical Geography, Utrecht University.

1993: Internship at the Department of Geology of the Universidad de Cantabria (Santander, Spain).

Memberships, additional experience and activities

- Member of the European Geophysical Union, American Geophysical Union, International Association of Hydrological Sciences;
- Reviewer for international journals, e.g., Nature, Nature Geosciences, Water Resources Research, HESS, Climatic Change, Hydrological Sciences Journal, Hydrogeology Journal, Journal of Engineering Geology and Hydrogeology, Engineering Geology, Catena, Geomorphology, Earth Surface Processes and Landscapes, Journal of Geophysical Research, Natural Hazards, Natural hazards and Earth System Sciences, Plant and Soil, Quarterly Geotechnical and Geological Engineering.
- Reviewer for international science foundations: Flemish Community (VLIR), Portuguese Research Council.
- Leader of and collaborator in extensive field studies on slope stability and catchment hydrology (France, Italy, Greece, Spain, Russia, India) and data collection (Caribbean);

- Advisor (co-promotor) on the following finished PhD projects: Marten Geertsema (Utrecht University, 2006), Sekhar Lukose Kuriakose (Utrecht University, 2010), Reinder Brolsma (Utrecht University, 2010), Frederiek Sperna Weiland (Utrecht University, 2011); Yoshihide Wada (Utrecht University, 2013), Csilla Hudek (Utrecht University, 2013);
- Advisor (co-promotor) on the following ongoing PhD projects: Naze Candogan-Yossef, Inge de Graaf;
- Member of promotion (PhD) committee of: Juan Francisco Sanchez Moreno (Twente University, NL, 2012) ; Mohammad Rezwanul Huq (Twente University, NL, 2013);
- Member of the scientific committees of the First International Congress on Ground Bio- and Eco-Engineering (Thessaloniki 2008), commemorative symposium for Dr Theo van Asch (2009); Co-convener at EGU General Assembly, Vienna 2013;
- Representative for the PhD students of Physical Geography in the organization of the Netherlands Centre for Geo-Ecological Research (1995-2000);
- Member of the educational board of the Netherlands Centre for Geo-Ecological Research (1996-2000);
- Co-organiser of the course on Philosophy of Science for post-doctoral students of the Netherlands Centre for Geo-Ecological Research;
- Co-organiser of the first PhD symposium of the Netherlands Centre for Geo-Ecological Research (1999).

Invited speaker

- CLIFFS Workshop held at Loughborough (UK) on February 21, 2006. Invited presentation titled "Modelling landslide hydrology";
- Boussinesq Lecture held in Amsterdam October 7, 2010: Presentation titled "Modelling global surface freshwater temperature";
- AGU Fall meeting 2011, San Francisco (USA): Invited presentation in Session H14B Groundwater and Climate Change titled "Global Depletion of Groundwater Resources and Its Contribution to Sea-level Rise";
- EGU General Assembly 2012, Vienna (Austria): Invited presentation in Session SSS11.7 Dynamic Landscapes titled "Modelling Landscape Dynamics in a Highland Mediterranean Catchment: Establishing the impact of Climate Variation and Human Activity";
- IAH 39th Congress, Niagara Falls (Canada), September 2012: Invited presentation in Session T1-A: Groundwater and Climate Change titled "Past and future contribution of global groundwater depletion to sea-level rise";
- IAHS PUB SYMPOSIUM "Prediction in Ungaged Basins, Delft (Netherlands), October 2012: Theme 5: New Hydrological Theory titled "Man as a hydro-geomorphological agent: modelling pathways and shifts in evolving catchment response";
- Vienna Catchment Symposium, April 2013: "Man as a hydro-geomorphological agent: modelling pathways and shifts in evolving catchment response".

Publications

H-Index per January 2014: 19 (Web of Science), 26 (Google)

Ph.D. thesis

Van Beek, L.P.H. (2002), Assessment of the influence of changes in land use and climate on landslide activity in a Mediterranean environment. Netherlands Geographical Studies, 294, Utrecht University, 363 pp.

Books

Norris, J.; Stokes, A.; Mickovski, S.; Cammeraat, E.; van Beek, R.; Nicoll, B.; Achim, A. (Eds.) (2008), *Slope Stability and Erosion Control: Ecotechnological Solutions*. Springer, 290 pp.

Book Chapters

1. Van Beek, R., E. Cammeraat, V. Andreu et al. (2008). Hillslope processes: Mass wasting, slope stability and erosion. In J. E. Norris, et al. (Eds.), *Slope stability and erosion control: Ecotechnological solutions*, Springer Netherlands, pp. 17-64S, doi:10.1007/978-1-4020-6676-4_3.
2. Stokes, A., Norris, J. E., Van Beek, L. P. H. et al. (2008), How vegetation reinforces soil on slopes. In Norris J. E. et al. (Eds.), *Slope stability and erosion control: Ecotechnological solutions*, Springer Netherlands, 65-118., doi:10.1007/978-1-4020-6676-4_4.
3. Ferrari, A., Luna, B. Q., Spickermann, A., Travelletti, J., Krzeminska, D., Eichenberger, J., Van Asch, T., Van Beek, Rens, Bogaard, T., Malet, J.P., & Laloui, L. (2014). Techniques for the Modelling of the Process Systems in Slow and Fast-Moving Landslides. In *Mountain Risks: From Prediction to Management and Governance* (pp. 83-129). Springer Netherlands.

International journals subject to peer-review

Papers marked () also appeared in the Proceedings of the the First International Conference on Eco-Engineering 13-17 September 2004, Thessalonikki (Greece) in Developments in Plant and Soil Sciences, Vol. 103, Eco- and Ground Bio-Engineering: The Use of Vegetation to Improve Slope Stability by Stokes, A.; Spanos, I.; Norris, J.E.; Cammeraat, E. (Eds.), Springer, Netherlands, 438 pp.*

1. Van Beek, L.P.H., T. Eikelboom, M.T.H. van Vliet et al. (2012), A physically based model of global freshwater surface temperature. *Water Resources Research* 48(9), pp.W09530.
2. Van Beek, L. P. H., Y. Wada, and M. F. P. Bierkens (2011), Global monthly water stress: 1. Water balance and water availability, *Water Resour. Res.*, 47, W07517, doi:10.1029/2010WR009791.
3. Van Beek, L.P.H., J. Wint, L.H. Cammeraat et al. (2005), Observation and simulation of root reinforcement on abandoned mediterranean slopes. *Plant and Soil* 278(1-2), pp.55-74. doi: 10.1007/s11104-005-7247-4 (*)
4. Van Beek, L.P.H. & T.W.J. Van Asch. (2004), Regional assessment of the effects of land-use change on landslide hazard by means of physically based modelling. *Natural Hazards* 31(1), pp.289-304. doi: 10.1023/B:NHAZ.0000020267.39691.39
5. Van Beek, L.P.H., Van Asch, Th.W.J. (1998): A combined conceptual model for the effects of fissure-induced infiltration on slope stability: Hergarten & Neugebauer (Eds.): *Process Modelling and Landform Evolution*, Springer Verlag, pp. 147-169.
6. Bierkens, M. F. P. and L. P. H. van Beek (2009), Seasonal Predictability of European Discharge: NAO and Hydrological Response Time, *J. Hydrometeorol.*, 10(4), 953-968, doi: 10.1175/2009JHM1034.1.
7. Mickovski, S. B. and L. P. H. van Beek (2009), Root morphology and effects on soil reinforcement and slope stability of young vetiver (*Vetiveria zizanioides*) plants grown in semi-arid climate, *Plant Soil*, 324(1-2), 43-56, doi: 10.1007/s11104-009-0130-y.
8. Mickovski, S.B., Van Beek, L.P.H. (2006): A decision support system for the evaluation of eco-engineering strategies for slope protection. *Geotechnical and Geological Engineering*, 24: 483-498. (*)
9. De Graaf, I.E.M., L.P.H. van Beek, Y. Wada, M.F.P. Bierkens, 2014. Dynamic attribution of global water demand to surface water and groundwater resources: Effects of abstractions and return flows on river discharges *Advances in Water Resources* 64, 21-33.

10. Immerzeel, W. W., L. P. H. van Beek, M. Konz, A. B. Shrestha, and M. F. P. Bierkens (2012), Hydrological response to climate change in a glacierized catchment in the Himalayas, *Clim. Change*, 110(3-4), 721-736, doi: 10.1007/s10584-011-0143-4.
11. Candogan-Yossef, N., L.P.H. van Beek, J.C.J. Kwadijk and M.F.P. Bierkens, (2012): Assessment of the potential forecasting skill of a global hydrological model in reproducing the occurrence of monthly flow extremes. *Hydrology and Earth System Sciences* 16, 4233-4246.
12. Wada, Y., L.P.H. van Beek, N. Wanders and Marc Bierkens (2013): Human water consumption intensifies hydrological drought worldwide. *Environmental Research Letters* 8, 034036 (14 pp).
13. Wada, Y., L. P. H. van Beek, and M. F. P. Bierkens (2012), Nonsustainable groundwater sustaining irrigation: A global assessment, *Water Resour. Res.*, 48, W00L06, doi: 10.1029/2011WR010562.
14. Wada, Y., L. P. H. van Beek, F. C. S. Weiland, B. F. Chao, Y. Wu, and M. F. P. Bierkens (2012), Past and future contribution of global groundwater depletion to sea-level rise, *Geophys. Res. Lett.*, 39, L09402, doi: 10.1029/2012GL051230.
15. Weiland, F. C. S., L. P. H. van Beek, J. C. J. Kwadijk, and M. F. P. Bierkens (2012), Global patterns of change in discharge regimes for 2100, *Hydrology and Earth System Sciences*, 16(4), 1047-1062, doi: 10.5194/hess-16-1047-2012.
16. Weiland, F. C. S., L. P. H. van Beek, J. C. J. Kwadijk, and M. F. P. Bierkens (2012), On the Suitability of GCM Runoff Fields for River Discharge Modeling: A Case Study Using Model Output from HadGEM2 and ECHAM5, *J. Hydrometeorol.*, 13(1), 140-154, doi: 10.1175/JHM-D-10-05011.1.
17. Weiland, F. C. S., L. P. H. van Beek, A. H. Weerts, and M. F. P. Bierkens (2012), Extracting information from an ensemble of GCMs to reliably assess future global runoff change, *Journal of Hydrology*, 412, 66-75, doi: 10.1016/j.jhydrol.2011.03.047.
18. Sutanudjaja, E. H., L. P. H. van Beek, S. M. de Jong, F. C. van Geer, and M. F. P. Bierkens (2011), Large-scale groundwater modeling using global datasets: a test case for the Rhine-Meuse basin, *Hydrology and Earth System Sciences*, 15(9), 2913-2935, doi: 10.5194/hess-15-2913-2011.
19. Wada, Y., L. P. H. van Beek, and M. F. P. Bierkens (2011), Modelling global water stress of the recent past: on the relative importance of trends in water demand and climate variability, *Hydrology and Earth System Sciences*, 15(12), 3785-3808, doi: 10.5194/hess-15-3785-2011.
20. Wada, Y., L. P. H. van Beek, D. Viviroli, H. H. Duerr, R. Weingartner, and M. F. P. Bierkens (2011), Global monthly water stress: 2. Water demand and severity of water stress, *Water Resour. Res.*, 47, W07518, doi: 10.1029/2010WR009792.
21. Brolsma, R. J., L. P. H. van Beek, and M. F. P. Bierkens (2010), Vegetation competition model for water and light limitation. II: Spatial dynamics of groundwater and vegetation, *Ecol. Model.*, 221(10), 1364-1377, doi: 10.1016/j.ecolmodel.2010.02.010.
22. Immerzeel, W. W., L. P. H. van Beek, and M. F. P. Bierkens (2010), Climate Change Will Affect the Asian Water Towers, *Science*, 328(5984), 1382-1385, doi: 10.1126/science.1183188.
23. Petrescu, A. M. R., L. P. H. van Beek, J. van Huissteden, C. Prigent, T. Sachs, C. A. R. Corradi, F. J. W. Parmentier, and A. J. Dolman (2010), Modeling regional to global CH₄ emissions of boreal and arctic wetlands, *Global Biogeochem. Cycles*, 24, GB4009, doi: 10.1029/2009GB003610.
24. Wada, Y., L. P. H. van Beek, C. M. van Kempen, J. W. T. M. Reckman, S. Vasak, and M. F. P. Bierkens (2010), Global depletion of groundwater resources, *Geophys. Res. Lett.*, 37, L20402, doi: 10.1029/2010GL044571.

25. Weiland, F. C. S., L. P. H. van Beek, J. C. J. Kwadijk, and M. F. P. Bierkens (2010), The ability of a GCM-forced hydrological model to reproduce global discharge variability, *Hydrology and Earth System Sciences*, 14(8), 1595-1621, doi: 10.5194/hess-14-1595-2010.
26. Kuriakose, S. L., L. P. H. van Beek, and C. J. van Westen (2009), Parameterizing a physically based shallow landslide model in a data poor region, *Earth Surf. Process. Landforms*, 34(6), 867-881, doi: 10.1002/esp.1794.
27. Van Asch, T. W. J., L. P. H. Van Beek, and T. A. Bogaard (2007), Problems in predicting the mobility of slow-moving landslides, *Eng. Geol.*, 91(1), 46-55, doi: 10.1016/j.enggeo.2006.12.012.
28. Cammeraat, E., Van Beek, R., Kooijman, A. (2005): Vegetation succession and its consequences for slope stability in SE Spain. *Plant and Soil*, 278 (1-2): 135-147 (*)
29. Mickovski, S. B., L. P. H. van Beek, and F. Salin (2005), Uprooting of vetiver uprooting resistance of vetiver grass (*Vetiveria zizanioides*), *Plant Soil*, 278(1-2), 33-41, doi: 10.1007/s11104-005-2379-0. (*)
30. Gleeson, T., Y. Wada, M. F. P. Bierkens, and L. P. H. van Beek (2012), Water balance of global aquifers revealed by groundwater footprint, *Nature*, 488(7410), 197-200, doi: 10.1038/nature11295.
31. Krzeminska, D. M., T. A. Bogaard, T. W. J. van Asch, and L. P. H. van Beek (2012), A conceptual model of the hydrological influence of fissures on landslide activity, *Hydrology and Earth System Sciences*, 16(6), 1561-1576, doi: 10.5194/hess-16-1561-2012.
32. Krzeminska, D. M., Bogaard, T. A., Malet, J.-P., and van Beek, L. P. H.: A model of hydrological and mechanical feedbacks of preferential fissure flow in a slow-moving landslide, *Hydrol. Earth Syst. Sci.*, 17, 947-959, doi:10.5194/hess-17-947-2013, 2013.
33. Weiland, F. C. S., C. Tisseuil, H. H. Durr, M. Vrac, and L. P. H. van Beek (2012), Selecting the optimal method to calculate daily global reference potential evaporation from CFSR reanalysis data for application in a hydrological model study, *Hydrology and Earth System Sciences*, 16(3), 983-1000, doi: 10.5194/hess-16-983-2012.
34. Loos, S., H. Middelkoop, M. van der Perk, and R. van Beek (2009), Large scale nutrient modelling using globally available datasets: A test for the Rhine basin, *Journal of Hydrology*, 369(3-4), 403-415, doi: 10.1016/j.jhydrol.2009.02.019.
35. Kuriakose, S. L., V. G. Jetten, C. J. van Westen, G. Sankar, and L. P. H. van Beek (2008), Pore Water Pressure as a Trigger of Shallow Landslides in the Western Ghats of Kerala, India: some Preliminary Observations from an Experimental Catchment, *Physical Geography*, 29(4), 374-386, doi: 10.2747/0272-3646.29.4.374.
36. Barij, N., A. Stokes, T. Bogaard, and R. Van Beek (2007), Does growing on a slope affect tree xylem structure and water relations?, *Tree Physiol.*, 27(5), 757-764.
37. Nicoll, B. C., S. Berthier, A. Achim, K. Gouskou, F. Danjon, and L. P. H. van Beek (2006), The architecture of *Picea sitchensis* structural root systems on horizontal and sloping terrain, *Trees-Structure and Function*, 20(6), 701-712, doi: 10.1007/s00468-006-0085-z.
38. Van Asch, T. W. J., J. P. Malet, and L. P. H. van Beek (2006), Influence of landslide geometry and kinematic deformation to describe the liquefaction of landslides: Some theoretical considerations, *Eng. Geol.*, 88(1-2), 59-69, doi: 10.1016/j.enggeo.2006.08.002.
39. Genet, M. Stokes, A., Salin, F., Mickovski, S., Fourcaud, T., Dumail, J.F., Van Beek, R. (2005): The influence of cellulose content on tensile strength in tree roots. *Plant and Soil*, 278 (1-2): 1-9 (*)

40. Mickovski, S.B., Stokes, A., Van Beek, L. (2005): A decision support tool for windthrow hazard assessment and prevention. *Forest Ecology and Management*, 216 (1-3): 64-76
41. Van Den Eeckhaut, M., J. Poesen, G. Verstraeten, V. Vanacker, J. Moeyersons, J. Nyssen, and L. P. H. van Beek (2005), The effectiveness of hillshade maps and expert knowledge in mapping old deep-seated landslides, *Geomorphology*, 67(3-4), 351-363, doi: 10.1016/j.geomorph.2004.11.001.
42. Van Asch, T. W. J., J. Buma, and L. P. H. Van Beek (1999), A view on some hydrological triggering systems in landslides, *Geomorphology*, 30(1-2), 25-32, doi: 10.1016/S0169-555X(99)00042-2.
43. Droogers, P., W.W. Immerzeel, W., Terink, J. Hoogeveen, M.F.P. Bierkens, L.P.H. van Beek and B. Debele (2012), Water resources trends in Middle East and North Africa towards 2050. *Hydrology and Earth System Science* 16, 3101-3114.
44. Wood, E. F. et al. (2012), Reply to comment by Keith J. Beven and Hannah L. Cloke on "Hyperresolution global land surface modeling: Meeting a grand challenge for monitoring Earth's terrestrial water", *Water Resour. Res.*, 48, W01802, doi: 10.1029/2011WR011202.
45. De Jong, S. M., E. A. Addink, L. P. H. van Beek, and D. Duijsings (2011), Physical characterization, spectral response and remotely sensed mapping of Mediterranean soil surface crusts, *Catena*, 86(1), 24-35, doi: 10.1016/j.catena.2011.01.018.
46. Ehret, U., Gupta, H. V., Sivapalan, M., Weijs, S. V., Schymanski, S. J., Blöschl, G., Gelfan, A. N., Harman, C., Kleidon, A., Bogaard, T. A., Wang, D., Wagener, T., Scherer, U., Zehe, E., Bierkens, M. F. P., Di Baldassarre, G., Parajka, J., van Beek, L. P. H., van Griensven, A., Westhoff, M. C., and Winsemius, H. C.: Advancing catchment hydrology to deal with predictions under change, *Hydrol. Earth Syst. Sci. Discuss.*, 10, 8581-8634, doi:10.5194/hessd-10-8581-2013, 2013.
47. Gleeson, T., L. Smith, N. Moosdorf, J. Hartmann, H. H. Durr, A. H. Manning, L. P. H. van Beek, and A. M. Jellinek (2011), Mapping permeability over the surface of the Earth, *Geophys. Res. Lett.*, 38, L02401, doi: 10.1029/2010GL045565.
48. Gruber, T., Bamber, J.L., Bierkens, MFP, Dobslaw, H., Murböck, M., Thomas, M., van Beek, LPH, van Dam, T., Vermeersen, LLA, Visser, P (2011), Simulation of the time-variable gravity field by means of coupled geophysical models. *Earth System Science Data* 3, 19-35.
49. Mickovski, S. B., A. Stokes, R. van Beek, M. Ghestem, and T. Fourcaud (2011), Simulation of direct shear tests on rooted and non-rooted soil using finite element analysis, *Ecol. Eng.*, 37(10), 1523-1532, doi: 10.1016/j.ecoleng.2011.06.001.
50. Wood, E.F., Roundy, J.K., Troy, T.J., van Beek, LPH, Bierkens, M.F.P., Blyth, E., de Roo, AA, Doll, P., Ek, M., Famiglietti, J. et al., (2011), Hyperresolution global land surface modeling: Meeting a grand challenge for monitoring Earth's terrestrial water, *Water Resour. Res.*, 47, W05301, doi: 10.1029/2010WR010090.
51. Taylor, R.G., Scanlon, B., Döll, P., Rodell, M., Van Beek, R., Wada, Y., Longuevergne, L., Leblanc, M., Famiglietti, J.S., Edmunds, M., Konikow, L., Green, T.R., Chen, J., Taniguchi, M., Bierkens, M.F.P., Macdonald, A., Fan, Y., Maxwell, R.M., Yechieli, Y., Gurdak, J.J., Allen, D.M., Shamsudduha, M., Hiscock, K., Yeh, P.J.-F., Holman, I., Treidel, H. (2013): Ground water and climate change. *Nature Climate Change* 3, 322-329.
52. Pozzi, Will, Justin Sheffield, Robert Stefanski, Douglas Cripe, Roger Pulwarty, Jürgen V. Vogt, Richard R. Heim Jr., Michael J. Brewer, Mark Svoboda, Rogier Westerhoff, Albert I. J. M. van Dijk, Benjamin Lloyd-Hughes, Florian Pappenberger, Micha Werner, Emanuel Dutra, Fredrik Wetterhall, Wolfgang Wagner, Siegfried Schubert, Kingtse Mo, Margaret Nicholson, Lynette Bettio,

- Liliana Nunez, Rens van Beek, Marc Bierkens, Luis Gustavo Goncalves de Goncalves, João Gerd Zell de Mattos, Richard Lawford, (2013): Toward Global Drought Early Warning Capability: Expanding International Cooperation for the Development of a Framework for Monitoring and Forecasting. *Bulletin of the American Meteorological Society* 94, 776-785.
53. Candogan-Yossef, N, H. Winsemius, A. Weerts, R. van Beek, and M. F. P. Bierkens (2013): Skill of a global seasonal streamflow forecasting system, relative roles of initial conditions and meteorological forcing. *Water Resources Research* 49,doi:10.1002/wrcr.20350.
 54. Ward, P.J., Jongman, B., Sperna Weiland, F., Bouwman, A., Van Beek, R., Bierkens, M.F.P., Ligtoet, W., Winsemius, H.C. (2013): Assessing flood risk at the global scale: model setup, results, and sensitivity. *Environmental Research Letters*, 8, 044019, doi:10.1088/1748-9326/8/4/044019.
 55. Winsemius, H. C., Van Beek, L.P.H., Jongman, B., Ward, P.J., and Bouwman, A. (2013): A framework for global river flood risk assessments, *Hydrol. Earth Syst. Sci.*, 17, 1871-1892, doi:10.5194/hess-17-1871-2013.
 56. Trambauer, P., Dutra, E., Maskey, S., Werner, M., Pappenberger, F., van Beek, L. P. H., and Uhlenbrook, S.: Comparison of different evaporation estimates over the African continent, *Hydrol. Earth Syst. Sci.*, 18, 193-212, doi:10.5194/hess-18-193-2014, 2014.
 57. Van Asch, T. W. J., J. Malet, L. P. H. van Beek, and D. Amitrano (2007), Techniques, issues and advances in numerical modelling of landslide hazard, *Bull. Soc. Geol. Fr.*, 178(2), 65-88, doi: 10.2113/gssgfbull.178.2.65.
 58. Van Den Eeckhaut, M., J. Poesen, G. Verstraeten, V. Vanacker, J. Nyssen, J. Moeyersons, L. P. H. van Beek, and L. Vandekerckhove (2007), Use of LIDAR-derived images for mapping old landslides under forest, *Earth Surf. Process. Landforms*, 32(5), 754-769, doi: 10.1002/esp.1417.
 59. Van Asch, Th. W. J., Malet, J.-P., Van Beek, L.P.H. (2006): Influence of landslide geometry and kinematic deformation to describe the liquefaction of landslides: Some theoretical considerations. *Engineering Geology*, 88 (1-2): 59-69
 60. Malet, J.P., Van Asch, T.W.J., Van Beek, R., Maquaire, O. (2005): Forecasting the behaviour of complex landslides with a spatially distributed hydrological model. *Natural Hazards and Earth System Sciences*, 5 (1): 71-85

Proceedings of International Conferences (peer-reviewed)

1. Feiken, H., van Beek, R., van Asch, T., van Leusen, M., (2011). CALEROS: an erosion-deposition model for landscape archaeology. *Hidden Landscapes of Mediterranean Europe Cultural and methodological biases in pre- and protohistoric landscape studies*.
2. Proceedings of the International Meeting on Cultural And Methodological Biases In Pre- And Protohistoric Landscape Studies, Siena, Italy, May 25-27, 2007, in *BAR International Series 2320 2011*, Oxford, pp. 13-16.
3. Dürr, H.H., L.P.H. van Beek, C.P. Slomp, H. Middelkoop and M.F.P. Bierkens (2008), *Global Land-Ocean Linkage: Direct Inputs of Water and Associated Nutrients to Coastal Zones via Submarine Groundwater Discharge (SGD)*. In: *Proceedings of the 20th Salt Water Intrusion Meeting*, Naples, Florida, 27-75.
4. Malet, J. -, A. Remaitre, O. Maquaire, Y. Durand, P. Etchevers, G. Guyomarch, M. Deque, and L. P. H. van Beek (2007), *Assessing the Influence of Climate Change on the Activity of Landslides in the Ubaye Valley*, *Proceedings and Monographs in Engineering, Water and Earth Sciences*, McInnes, R. & Fairbank, H. (Eds): *Proceedings International Conference on Landslides and Climate change - Challenges and Solutions*, Wiley, London.
5. Mickovski, S. B. and L. P. H. van Beek (2007), *Decision Support Systems in Eco-Engineering: The Case of the SDSS*, *Proceedings of the the First International Conference on Eco-Engineering 13-17 September 2004*, Thessalonikki (Greece) in

6. Developments in Plant and Soil Sciences, Vol. 103, Eco- and Ground Bio-Engineering: The Use of Vegetation to Improve Slope Stability by Stokes, A.; Spanos, I.; Norris, J.E.; Cammeraat, E. (Eds.), Springer, Netherlands,
7. Sekhar, L.K., van Westen, C. Ramseh, C.L., Van Beek, L.P.H., Sankar, G., Alkema, D., Van Asch, Th.W.J., Jayadev, S.K. (2006): Effect of vegetation on debris flow initiation: conceptualization and parameterization of a dynamic model for debris flow initiation in Tikovil river basin, Kerala, India, using PCRaster. 2nd International Symposium on Geo-information for Disaster Management (Gi4DM) - Remote Sensing and GIS. Techniques for Monitoring and Prediction of Disasters; September 25-26, 2006, Goa India
8. Malet, J.-P., Van Asch, Th.W.J., Van Beek, R., Maquaire, O., (2003). Apport des modèles hydrologiques spatialisés à la simulation numérique de glissements de terrain. Impacts pour la gestion du risque. In King, C. (Ed) : Actes du Colloque Sirnat "Les Journées pour la Prévention des Risques", Orléans, France, BRGM Éditions, 31-39.
9. Malet, J.-P., Van Asch, Th.W.J., Van Beek, L.H., Maquaire, O., (2002). Distributed hydrological modelling of the Super-Sauze earthflow: implementation of the STARWARS model. In Delahaye, D., Levoy, F., Maquaire, O. (Eds): Proceedings of the Symposium on "Geomorphology: from Expert Opinion to Modelling", Strasbourg, France, CERIG Editions, Strasbourg, 65-73.
10. Van Beek, L.P.H., Van Asch, Th.W.J. (1998): Quantification of the Contribution of Landsliding to Mass-wasting in a Mediterranean Environment by Derivation of a General Hydrological Slope Instability Threshold: 8th IAEG Congress, Vancouver.
11. Van Beek, L.P.H., Van Asch, Th.W.J. (1996): The Mobility Characteristics of the La Valette Landslide: Seneset (Ed.): Landslides, Balkema, pp. 1417-1421.

Reports

1. Bogaard, T.A., L.P.H. van Beek (2003). Determination Of Strength Parameters Of Trivento Reference Site. Ecoslopes Technical Report. Eco-Engineering And Conservation Of Slopes for Long-term Protection from Erosion, Landslides and Storms. EU-project: QLK5-CT-2001-00289.
2. Coventry University (2002): Establishment of management and exploitation potential of the volcanic deposits on Montserrat. Phase 1: Preliminary evaluation of the volcanoclastic resource, its potential of exploitation and the role of vegetation for dust reduction and stabilisation. Compiled by Economides, Dijkstra, Waldmann and Van Beek with contributions by Stevens. Department for International Development CNTR 00 1727. 142 pp. with annexes.
3. Eco-Slopes (2001): Eco-Slopes field protocol. Compiled by Cammeraat, L.H., Van Beek, L.P.H., Dorren, L.K.A.. 76 pp.
4. Van Beek, L.P.H. (1996): Evaluation of the Dynamic Modelling of the Valette Landslide: C.E.R.G. workshop Barcelonnette-Vaison la Romaine.
5. Van Beek, L.P.H. (1995): Wave Climate of Terschelling – a statistical analysis for the Nourtec project: IMAU rapport R 95-10.