

Curriculum Vitae

Name	Dr. W.W. IMMERZEEL
First Name	Walter
Date of Birth	21 June 1975
Nationality	Dutch
Main Disciplines	Geo-informatics, Remote Sensing, Hydrology, Simulation models, Climate Change
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Key Qualifications

Dr. W.W. (Walter) Immerzeel has eleven years experience in geo-informatics, water resource management and climate change with a special focus on the interface between GIS and simulation models. He holds a PhD degree in physical geography at Utrecht University. His dissertation is titled “Spatial modeling of mountainous basins; an integrated analysis of the hydrological cycle, climate change and agriculture”. He also has extensive experience in the application of Remote Sensing in mountain areas for systematically assessing and monitoring climate change, flooding, droughts and food security. He has worked in the Netherlands as well as in a number of developing countries (China, Mexico, Bangladesh, India, Nepal, Philippines, Kenya). In the Netherlands he has worked on several projects for Dutch water boards focusing on climate change, water retention and flooding. From December 2002 until June 2004 he was attached to the International Centre for Integrated Mountain Development (ICIMOD) in Nepal as associate expert GIS and natural resource management. He is responsible for a number of projects on the cutting edge of climate change and hydrology. Current contractors include Dutch ministries, water boards and the World Bank. He is also a CASIMIR fellow supported by the Netherlands Organization for Scientific Research (NWO) and working on seasonal forecasting of Asian river discharges from the Himalayan cryosphere and monsoon feedbacks in close collaboration with Utrecht University.

Educational background

2003 – 2008	PhD physical geography at Utrecht University, the Netherlands. The dissertation is titled “Spatial modeling of mountainous basins; an integrated analysis of the hydrological cycle, climate change and agriculture”
1993-1998	MSc Environmental Sciences, faculty of geography, Utrecht University, The Netherlands

Professional Experience

- 2005 - present Hydrologist, FutureWater, Wageningen, The Netherlands
- 2008 - present NWO-CASIMIR post-doc at Utrecht University, the Netherlands
- 2003 – 2004 Associate Expert GIS and Natural Resources, International Centre for Integrated Mountain Development (ICIMOD), Kathmandu, Nepal
- 2000 - 2002 GIS-hydrologist, Alterra research institute, Wageningen, The Netherlands
- 1998 - 2000 GIS/RS consultant, Geodan Geodesie, Amsterdam, The Netherlands
- 1998 Research trainee, International Institute for aerospace survey and earth sciences, Enschede, The Netherlands
- 1996 Research trainee, CML, Cagayan Valley Programme for Environment and Development, Cabagan, The Philippines

Overseas Professional Experience

Resident:

Nepal (2 years), Philippines (7 months)

Non-resident assignments:

India, Bangladesh, China, United States, Kenya

Selection of Assignments and Projects

- 2008-2012 Researcher in the EU FP7 project CEOP-AEGIS: an international cooperation project between Europe and Asia to improve knowledge on hydrology and meteorology of the Tibetan Plateau and its role in climate, monsoon and extreme meteorological events.
- 2008-2011 CASIMIR grant holder from the Netherlands Organization for Scientific Research (NWO). In close collaboration with Utrecht University the project is focusing on seasonal forecasting of Asian river discharges from cryosphere and monsoon feedbacks.
- 2010 Project leader for the World Bank project "Water Outlook 2050 for the Middle East and North Africa
- 2010 Consultancy for the Mekong River Commission as Senior International Expert Drought Management
- 2010 Consultancy for the Mekong River Commission as Senior International Expert Satellite Precipitation.
- 2010 Project leader of a project to assess the effects of climate change in the Netherlands on water excess for the Climate Change Atlas.
- 2008-2009 Project leader of the project "Needs Assessment of Future ESA Satellites for Water Management in Southern Europe"
- 2007 Organizer of a workshop on "Integrated Water Management Support Methodologies" in Kenya. See www.futurewater.nl/watmansup.
- 2006-2007 Project leader and principle investigator of the project "Remotely Sensed Based Hydrological Model Calibration for Basin Scale Water Resources Planning: Embedding Case for Krishna Basin" in India. See www.futurewater.nl/krishna.

2006	Researcher in an IFAD (International Fund for Agricultural Development) supported proof of concept of green water credits in relation to the exploration of options for improved water and soil management issues in Kenya.
2006	Principle investigator in a project that evaluated the effects of climate change on the regional hydrology of water board in the river delta of the Netherlands.
2006	Principle Investigator in a project that evaluated the water supply for a Water board in the Netherlands.
2005-2006	Principle investigator in a project that explores sustainable options for water use in the Rio Bravo basin using Remote Sensing and simulation models in Mexico. See www.futurewater.nl/riobravo .
2005	Principle investigator in a project that evaluated water delivery requirements for agriculture in the Netherlands. For a Dutch water board an evaluation of current water delivery and future changes as a consequence of climate change were made.
2005	Researcher in a project which assesses hydrological bottlenecks in terms of water excess and water scarcity in the largest land reclamation area in the Netherlands.
2005	Project leader and principle investigator of the project "Exploring evaporation reduction options in the Hai basin" in China. A hydrological simulation model in combination with Remote Sensing provided insight in the water balance and the effects of different management scenarios.
2004-2005	Principle investigator in the project "Prototyping Ecoregional Analyses Tools to Improve Science-Based Decision Making in Research and Development" in Tibet. A combination of simulation models, remote sensing and GIS are applied to investigate the interaction between decision making, land use, agricultural development and water. See www.ecoregionalfund.com .
2004	Coordinator of a regional training course on geo-informatics for watershed management in the Hindu-Kush Himalayas. A course jointly organized by ITC and ICIMOD dealing with water related issues and tools in five Himalayan countries.
2003	Teacher in a national training course on GIS and water resource management in Dhaka, Bangladesh.
2003	Development of a project proposal studying the contribution of glacial melt water on highland agriculture in the framework of the CGIAR "water for food" challenge program.
2003	Project planning and coordination of a project on decision support systems in national parks funded by the Italian development cooperation. The work mainly focused on the Sagarmatha National Park in Nepal.
2003	Coordinator of a project on crop suitability mapping in Himachal Pradesh, India. GIS was used to map the crop suitability in the mountainous state of Himachal Pradesh.
2002	Researcher in the project "Water productivity of irrigated crops in Sirsa district" in India. The water productivity was assessed for different crops in the Sirsa irrigation circle using a combination of Remote Sensing and simulation models.
2000-2002	Researcher in a project assessing water storage potential in Noord-Brabant in The Netherlands. A user-friendly GIS interface was programmed for the integrated hydrological model SIMGRO, which enabled the quantification of water storage, climate change and flooding issues on a regional scale.

1998-2000 Researcher in a project with RIZA on the development of BASELINE; a ArcINFO GIS application for generating and visualizing input and output for the hydraulic models SOBEK and WAQUA. The simulation models were applied for the large river systems in The Netherlands.

Language Skills

Dutch: mother tongue
English: fluent in writing and speech
French: moderate
German: moderate
Nepali: moderate

Computer Skills

GIS/RS: ArcView (including programming in Avenue), ArcInfo, ArcGIS (including programming in VBA), Erdas Imagine, IDL/Envi, ER Mapper, Idrisi, PC raster.
Simulation models: SWAT, SWAP, WEAP, SimGro
Databases: MS Access, Microsoft SQL server, PostgreSQL
Standard software: MS Office suite, Adobe Photoshop
Others: HTML, R, MatLab, MathCad, Python

Miscellaneous

Additional courses:

2003	Course in proposal development at the International Water Management Institute (IWMI)
2001-2002	Several courses in meteorology and air quality at the Wageningen University
2001	Programming in ArcGIS 8.0 using Visual Basic for Applications and ArcObjects; a course of ESRI Netherlands.
2000	Project management and organisation by Schouten & Nelissen, Netherlands.
1999	Programming in ArcView Avenue; a course of ESRI Netherlands.

Other academic activities

- Keynote speaker at the UNEP International Expert meeting on climate change in the Himalayas in December 2009.
- One of the young researchers of Utrecht University who presented results of climate change research onboard of a special train with Dutch politicians, the Dutch negotiation delegation, journalists and NGO on its way to the Copenhagen climate conference in 2009.
- External referee the International Institute for Geo-information Science and Earth Observation.
- Contributor to an international water expert meeting of the World Bank.
- Guest lecturer at Utrecht University for remote sensing and hydrology courses of the Department of Physical Geography.
- Supervision of several Master students during their final thesis research at the Department of Physical Geography of Utrecht University.
- Presentation of research results at several international scientific conferences.
- Reviewer of several scientific journals: Agricultural Water Management, International Journal of Climatology, Nature Geoscience, Sensors, Remote Sensing of Environment, Water Resources Research.
- Reviewer for the EU FP7 European Reintegration Grants (ERG) and International Reintegration Grants (IRG).

Scholarships and prizes

NWO-CASIMIR (2007)

Publications

Peer reviewed publications

- Gain, A.K., **Immerzeel, W.W.**, Sperna-Weiland, F.C., Bierkens, M.F.P., 2010, Impact of climate change on the stream flow of lower Brahmaputra: Trends in high and low flows based on discharge-weighted ensemble modelling (submitted to Hydrology and Earth System Sciences)
- Immerzeel, W.W.**, Beek van, L.P.H., Konz, M., Shrestha, A., Bierkens, M.F.P., 2010, Hydrological response to climate change in a glaciated catchment in the Himalayas (submitted to Climatic Change)
- Immerzeel, W.W.**, Droogers, P., Bastiaanssen, W.G.M., Zwart, S.J., 2010, Calibrating hydrological models using remotely sensed evapotranspiration: the importance of scale (submitted to Water Resources Research).
- Quiroz, R., Yarlequé, C., Posadas, A., Mares, V., **Immerzeel, W.W.**, 2011, Improving Daily Rainfall Estimation from NDVI Using Wavelet Transform. Environmental Modelling and Software 26: 201-209.
- Immerzeel, W.W.**, Bierkens, M.F.P., 2010, Asian Water Towers: More on Monsoons-Response. Science 330: 585
- Immerzeel, W.W.**, Beek, L.P.H., Bierkens, M.F.P., 2010, Climate Change Will Affect the Asian Water Towers. Science 328: 1382-1385.
- Konz, M., Finger, D., B urgi, C., Normand, S., **Immerzeel, W.W.**, Merz, J., Amarnath, G., Burlando, P. 2010. Calibration of a distributed hydrological model for simulations of remote glacierized Himalayan catchments using MODIS snow cover data. IAHS publication 340: 465-473.
- Droogers, P., **Immerzeel, W.W.**, Lorite, I.J., 2010, Estimating Actual Irrigation Application by Remotely Sensed Evapotranspiration Observations. Agricultural Water Management 97: 1351 - 1359.
- Immerzeel, W.W.**, Bierkens, M.F.P., 2010, Seasonal prediction of monsoon rainfall in Asian river basins: the importance of snow cover on the Tibetan plateau. International Journal of Climatology 30: 1835-1842.
- Bhagat . R.M., Singh . S., Sood, C., Rana, R.S., Kalia, V., Pradhan, S., **Immerzeel, W.W.** . Shrestha, B. 2009, Land Suitability Analysis for Cereal Production in Himachal Pradesh (India) using Geographical Information System, J. Indian Soc. Remote Sens. 37:233–240.
- 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: 446-458.
- Immerzeel, W.W.**, Rutten, M.M., Droogers, 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.
- Immerzeel, W.W.**, Gaur, A., Zwart, S.J., 2008, Integrating remote sensing and a process-based hydrological model to evaluate water use and productivity in a south Indian catchment. Agricultural Water Management 95: 11-24.

- Immerzeel, W.W.**, Droogers, P. 2008, Calibration of a distributed hydrological model based on satellite evapotranspiration. *Journal of Hydrology* 349: 411-424.
- Immerzeel, W.W.**, Stoorvogel, J. and Antle J., 2008, Can payments for ecosystem services save the water tower of Tibet? *Agricultural Systems* 96: 52-63.
- Immerzeel, W.W.**, 2008, Historical trends and future predictions of climate variability in the Brahmaputra basin. *The International Journal of Climatology* 28: 243:254.
- Droogers, P., Van Loon, A., **Immerzeel, W.W.**, 2008, Quantifying the impact of model inaccuracy in climate change impact studies using an agro-hydrological model. *Hydrological and Earth System Sciences* 12: 669-678.
- Bouma, J., Stoorvogel, J.J., Quiroz, R., Staal, S., Herrero, M., **Immerzeel, W.**, Roetter, R.P., Bosch van den, R., Sterk, G., Rabbinge, R., Chater, S., 2007, Ecoregional Research for Development. *Advances in Agronomy* 93: 257-311.
- Immerzeel, W.W.**, Quiroz, R.A. and Jong de, S.M., 2005, Understanding complex spatiotemporal weather patterns and land use interaction in the Tibetan Autonomous Region using harmonic analysis of SPOT VGT-S10 NDVI time series, *International Journal of Remote Sensing* 26: 2281-2296.

Conference proceedings, books, book chapters

- Immerzeel, W.W.**, Beek, L.P.H., Bierkens, M.F.P., 2009, Hydrological response of climate change in a glaciated catchment in the Himalayas, *Eos Trans., AGU Fall Meet. Suppl.*
- Immerzeel, W.W.**, Droogers, P., de Jong, S.M., Bierkens, M.F.P., 2009, The water balance as a confirmation of glacial melt in the upper Indus, *Geophysical Research Abstracts*, Vol. 11, EGU General Assembly 2009.
- 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.**, 2008, Spatial modeling of mountainous basins: An integrated analysis of the hydrological cycle, climate change and agriculture. *Netherlands Geographical Studies* 369 (PhD dissertation), KNAG, Utrecht.
- Immerzeel, W.W.** and Pradhan, S., 2004, An eco-regional approach to agricultural land use planning in Himachal Pradesh, India using Geographic Information Systems, (presented at the Asian Federation for IT in Agriculture conference in August 2004 in Bangkok)
- Kroes, J.G., Droogers, P., Kumar, R., **Immerzeel, W.W.**, Khatri, R.S., Roelevink, A., Maat ter, and H.W., Dabas, D.S., 2003, A regional approach to model water productivity. In: Dam, J.C. van, and Malik, R.S. (Eds), 2003, *Water productivity of irrigated crops in Sirsa District, India*, WATRPRO final report, ISBN 9064648646, pp.101-119

Technical reports and other publications

- Immerzeel, W.W.**, Van Beek, L.P.H., Bierkens, M.F.P. 2010. Smelten gletsjers bedreigt 67 miljoen mensen in Zuidoost-Azie. *Geografie* 19(7): 6-9.
- Immerzeel, W.W.** 2010. Bias Correction for Satellite Precipitation Estimation used by the MRC Mekong Flood Forecasting System – Mission Report. *FutureWater Report* 94.
- Droogers, P., **W.W. Immerzeel**. 2010. Wat is het beste model? *H₂O Tijdschrift voor watervoorziening en waterbeheer* 4: 38-41.
- Droogers, P., **W.W. Immerzeel**. 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
- 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
- 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. FutureWater Report 84.
- Hermans, E., P. Droogers en **W.W. Immerzeel**, 2009. Uitbreiding modelinstrumentarium en scenario analyse Quarles van Ufford. FutureWater rapport 81.
- 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., **W.W. Immerzeel**. 2008. Managing the real water consumer: evapotranspiration. FutureWater report 78.
- Hermans, E., P. Droogers en **W.W. Immerzeel**,. 2008. Venkende klimaatstudie Waterschap Vallei & Eem. FutureWater rapport 77
- Immerzeel, W.W.**, P. Droogers. 2008. Klimaatverandering en regionale wateroverlast ten gevolge van extreme neerslag in Nederland. FutureWater Report 73.
- Droogers, P., **W.W. Immerzeel**. 2007. Verdieping en verbreding verkenning innovaties. Innovatie Water en Ruimtelijke Ordening. FutureWater report 72
- Immerzeel, W.W.** 2007. Gebruik van regenradar gegevens in het waterbeheer van Waterschap Rivierenland. FutureWater report 71.
- Immerzeel, W.W.** 2007. Vergelijk resultaten van twee modelstudies voor de polder Quarles van Ufford. FutureWater report 70.
- Immerzeel, W.W.**, Droogers, P., 2007. Invloed van Klimaatverandering op het Gelderse bos. FutureWater report 67.
- Immerzeel, W.W.**, Droogers, P. Gaur, A., 2007, Remotely Sensed Based Hydrological Model Calibration for Basin Scale Water Resources Planning: Embedding case for Krishna Basin, India. Final Project report NIVR-GO project 53611FW. FutureWater report 69, Wageningen.
- Droogers, P, **Immerzeel, W.W.**, Schoonderwoerd, H., 2007, Klimaatverandering en bossen: Modelanalyse voor landgoed Slangenburg. FutureWater report 68.
- Droogers P., Kauffman, J.H., Dijkshoorn, J.A., **Immerzeel, W.**, Huting, J.R.M., 2006. Green Water Credits: Basin identification. Green Water Credits report 1. ISRIC report 2006. ISRIC, Wageningen
- Immerzeel, W.W.**, Van Heerwaarden C.C., Droogers, P. 2007. FutureViewR: gedetailleerd hydrologisch en oppervlaktewatermodel getest op Quarles van Ufford. FutureWater report 62, Wageningen.
- 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.
- Immerzeel, W.**, Graafstaal, H., Brouwer, B., Warmolts, B., 2006. Evaluatie wateraanvoer Noordoostpolder, H₂O tijdschrift voor watervoorziening en waterbeheer 21:36-38.

- Immerzeel, W.W.**, Gaur, A., Droogers, P., 2006. Remote Sensing and Hydrological Modelling of the Upper Bhima Catchment, Research paper no. 3, FutureWater report 57, Wageningen, The Netherlands
- Droogers, P., **Immerzeel, W.W.**, 2006, Calibration Methodologies in Hydrological Modeling: State of the Art, Research paper no. 2, FutureWater report 56, Wageningen, The Netherlands
- Immerzeel, W.W.**, Droogers, P., Gieske, A., 2006, Remote Sensing and Evapotranspiration Mapping: State of the Art, Research paper no. 1, FutureWater report 55, Wageningen, The Netherlands
- Bastiaanssen, W.G.M., Klaasse, A., Zwart, S., **Immerzeel, W.**, Droogers, P., 2006, The hydrological flow path and options for sustainable water resources management in the overexploited Rio Bravo Basin; A preliminary analysis from remote sensing and hydrological modeling, WaterWatch report, Wageningen
- Soppe, R., Bastiaanssen, W.G.M., **Immerzeel, W.**, Droogers, P., 2006, Water Resources Analysis of the Hai Basin in 2003 and Implications for Water Management, WaterWatch report, Wageningen
- Immerzeel, W.**, Graafstal, H.G., Loeve, R., 2006, Evaluatie wateraanvoer in de Noordoostpolder, FutureWater Report 50, Wageningen
- Pradhan, S., **Immerzeel, W.W.**, 2006, Developing Himachal Pradesh Agricultural Information Files (HASIF) and Decision Support Tool for Niche Based Hill Farming. ICIMOD publication, Kathmandu.
- Immerzeel, W.**, 2005. The Water Tower Function of Tibet; case study report. Ecoregional fund, PriceWaterHouseCoopers, The Hague, The Netherlands (www.ecoregionalfund.com)
- 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
- 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
- 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 **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.; Schoonderwoerd, H.; Japink, M. en **Immerzeel, W.W.** 2005. Hydrologisch vooronderzoek Landgoed Santhorst. Bosgroep Midden-Nederland. Silve en FutureWater rapport, Wageningen, 27p
- 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
- Bolt, F.J.E. van der, **Immerzeel, W.W.** and Veldhuizen, A.A., 2002, Regionale waterberging in Noord-Brabant, Alterra-rapport 637, Wageningen, 84p., ISSN 1566-7197
- Bakel van, P.J.T., Bolt van der, F.J.E. and **Immerzeel, W.W.**, Groenendijk, M., and Wesseling, J.G., 2002, De wateropgave voor waterschap Rijn en IJssel, Alterra-rapport 636, Wageningen, Alterra, 104 p., ISSN 1566-7197

- Immerzeel W.W.**, 2000, Interpolation of cross-section elevation data, Main, Rhine and Neckar. Geodan Geodesie
- Immerzeel W.W.**, 2000, Creation of a GIS database for Sobek models for the rivers Main and Rhine. Geodan Geodesie
- Immerzeel W.W.** and Hoefsloot, F., 2000, Bepaling Baseline-bestanden Sobek Maas 2000.1. Beschrijving opbouw dataproducten. Geodan Geodesie rapport G0011/WIM/00003
- Hoefsloot, F. and **Immerzeel, W.W.**, 2000, Bepaling Baseline-bestanden Sobek Rijntakken. Beschrijving opbouw dataproducten. Geodan Geodesie
- Hoefsloot, F., **Immerzeel, W.W.**, Pakes, U. and Veen van der, R., 1999, GIS and SOBEK modelling: a manual for the construction of area schematisations. Geodan Geodesie, RWS-RIZA.
- Groten, S.M.E., **Immerzeel, W.W.**, and Leeuwen van, L.M., 1999, Monitoring of crops, rangelands and food security at national level; a tutorial (including CD-ROM), ITC/UNFAO/GIEWS.
- Amahieu, A. and **Immerzeel, W.W.**, 1998, Satellieten meten vegetatie-ontwikkeling in de Sahel, Geografie Educatief 1998/2, KNAG.