

Curriculum Vitae S.N. (Bas) Jonkman

General profile:

S.N. (Bas) Jonkman is a professor of Hydraulic Engineering at Delft University, the Netherlands. Since the year 2012, he holds the chair of Integral Hydraulic Engineering, which focuses on research and education in the fields of hydraulic structures and flood risk, and is a visiting professor and recipient of the prestigious Hagler fellowship at Texas A&M. He holds a PhD degree from TU Delft and has worked for the Dutch government, Royal HaskoningDHV and UC Berkeley. His research interests include flood risk management, disaster management, and the integral design of hydraulic infrastructure, such as flood defences and storm surge barriers. He has been involved in post-disaster and design studies in New Orleans, Houston, Mozambique and various countries in Southeast Asia. He was the scientific coordinator for a national fact finding study after the 2021 summer floods that catastrophically affected the South of the Netherlands. He has been leading research and design efforts of TU Delft for a coastal spine protection system for the Houston Galveston Bay area in Texas. Dr. Jonkman is currently leading a number of national and European research projects focusing on climate adaptation and strategies for flood risk reduction, including storm surge barriers and nature-based solutions. Throughout his career, he has made important contributions, bridging the gap between science, policy and operational flood risk management.



1. General information

Last Name: Jonkman
 First name: Sebastiaan Nicolaas (Bas)
 Date of birth: April 6, 1977
 Nationality: Dutch

2. Employment record

- 2022 – present Texas A&M Galveston (USA), *visiting research professor* at the Institute for a Disaster Resilient Texas (IDRT) and recipient of the Texas A&M Hagler Fellowship, spent 6 months in Houston, Texas (Jan – June 2023)
- 2012 – present Delft University of Technology, Faculty of Civil Engineering and Geosciences
 Department of Hydraulic Engineering, Section of Hydraulic Structures and Flood Risk
Department Head (As of Nov 15, 2024);
Full professor in integral hydraulic engineering (as of Oct 1, 2012, tenured)
Previously: researcher (part time, 2001 - 2007); Assistant Professor (part time, 2007 - 2011); Associate professor (part time, 2011 - 2012)
- 2013 – present Rijkswaterstaat, Ministry of Infrastructure and Water (the Netherlands), *Strategic advisor for flood risk and hydraulic engineering (0.1 fte)*
- 2011 University of California, Berkeley, Faculty of Civil and Environmental Engineering, Resilient and Sustainable Infrastructure Networks (RESIN) project, *Visiting Scholar*
- 2009 – 2011 Ministry of Transport, Public Works and Water Management, Directorate General Water. *Policy advisor (secondment, 0.5fte)*
- 2007 – 2012 Royal Haskoning, Coastal and Rivers Division, *advisor and expert (until Sept 1, 2012)*
- 2002 – 2003 Rijkswaterstaat, Tunnel Safety Group, *advisor tunnel safety (0.4 fte)*
- 2001 – 2007 Rijkswaterstaat, Road and Hydraulic Engineering Division
advisor / specialist flood defences

3. Education

- 2002 - 2007 Delft University of Technology, Civil Engineering and Geosciences, PhD degree
Thesis: "*Loss of life estimation in flood risk assessment, Theory and applications*" (Defence date, June 18, 2007).
- 1995 - 2001 Delft University of Technology, Civil Engineering and Geosciences, Master of Science (Engineering title "ir." in Dutch); Specialization: Hydraulic structures and flood risk

4. Professional memberships, committees and responsibilities

- Member of the international Expert Panel on Coastal Adaptation and Coastal Protection, PUB, Singapore
- Chair of the scientific review panel for the policy studies and actions as a follow up of the 2021 summer floods in the South of the Netherlands (2022) (in Dutch: beleidstafel hoogwater en wateroverlast)
- Scientific co-director of the new Pandemics and Disaster Preparedness Center (PDPC) with Erasmus MC and Erasmus University (2021 - 2024)
- Member of the Resilient Delta Steering group of TU Delft and Erasmus University (2020 – 2021)
- Member of the jury of the Penang South Islands Masterplan for land reclamation and development – Malaysia (2020)
- Member of the mid-term assessment committee of the faculty of Technology Policy and Management (TPM) at TU Delft (2020)
- Member of the jury for design of the new entrance for the world heritage site Kinderdijk (2019)
- Member of the steering group on Dynamic Tidal Power (DTP), 2019 - 2021
- Member of the board of "Stichting Blauwe Lijn" (foundation the blue line – focused on communication of water history in the Netherlands), since 2019
- Member of the steering group of the 4TU Research center on resilience, a program with 13 new tenure trackers in the field of resilience, since 2018
- Co-chairman of "de waterbouwdag", i.e. the Dutch national Hydraulic Engineering day (as of 2017)
- Member of the jury of the Dutch Water Innovation Award (water innovatie prijs) (2016 – 2018)
- Member of the Dutch Advisory Committee on Water (Adviescommissie Water AcW), February 2016 – 2018
- Member of Expertise Network for Flood Protection (ENW), since 2013
- Chair of the civil engineering chapter of the Royal Netherlands Society of Engineers (KIVI), (2013-2024, member of the board since 2024)
- Member of the advisory board of the Watersnoodmuseum (1953 flood disaster museum), since 2013
- Vice-chairman and board member of Nethcold, Dutch chapter of ICOLD – International Committee on Large Dams (since 2013)
- Member of the Netherlands association for risk and reliability analysis (NVRB)
- Member of the committee on integrated risk assessment; European Safety and Reliability Association (active until 2016)

At Delft University:

- Head of the department of Hydraulic Engineering (As of Nov 15, 2024)
- Head of the section of Hydraulic Structures and Flood Risk, part of the department of Hydraulic Engineering (2012-2020)
- Member of the board of the Delft Infrastructure & Mobility Initiative (DIMI)
- Member of the scientific advisory board of the Delta (university magazine, until 2021)
- Member of the Academic career committee of the faculty of Civil Engineering and Geosciences (interim member, 2015 – 2016; permanent member as of 2022)
- Member of the advisory board of the TU Delft Safety and security institute (as of 2020)

5. Selected Projects

5.1 Research projects and grants, Delft University of Technology

- 2023 Future Flood Risk Management technologies for rivers and coasts (*Future FRM Tech*)
Principal investigator
A novel large-scale research program on innovative solutions for rivers and coasts. The program is funded by the Dutch national research council (NWO) and has a total value of 5.7 M€. It is executed by four universities, in collaboration with 28 users from government and industry. A total of 16 PhD and postdoc position are included in this program.

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- 2022 – present
Bangladesh Coastal resilience in Bangladesh
Expert
Second study for the World Bank to investigate the use of mangroves for coastal protection, and the development of innovative methods for coastal flood risk assessment. Client: World Bank, US \$ 98,000
- 2021 Taskforce fact finding floods in the Netherlands (summer 2021)
Principal Investigator
Independent investigation of the floods along the river Meuse and its tributaries (late July 2021) with a multi-disciplinary, multi-agency team of about 30 researchers. Supported by the Expertise Network on Flood Protection (ENW).
- 2021 – 2024 Pandemic and Disaster Preparedness Center (PDPC)
Scientific (co-)director
Setting up a large national research center to enhance future pandemic and disaster preparedness of delta areas. Initiative by prof. Marion Koopmans. Collaboration of the Erasmus Medical Center, Erasmus University and TU Delft. Pilot projects focus on effects of climate change on water systems and vector borne diseases, and pandemic lessons for flood disaster preparedness of the health sector.
- 2021 - 2022
Japan Climate Change and flood risk in Hokkaido, Japan
Expert
Pilot R&D study to develop methods for flood risk assessment, including loss of life, for river floods in Hokkaido, Japan; funding organization: Netherlands Enterprise Agency
- 2021 Reliability and future proofing of Dutch storm surge barriers
Principal Investigator
Research on reliability, lifetime extension and future adaptation of Dutch storm surge barriers. 1 PhD position. Funding: Rijkswaterstaat. Contract value € 350,000
- 2020
Bangladesh New approaches for coastal resilience in Bangladesh
Expert / team leader
Developing cost estimates for coastal defence and adaptation in Bangladesh. This also includes an assessment of the opportunities for mangroves in Bangladesh. Client: World Bank, US \$ 49,5000
- 2019 – 2020 Adaptation to sea level rise in the Netherlands
Expert
A review of options for adaptation to sea level rise in the Netherlands, including options for coastal defence and adaptation of storm surge barriers. Contributions to publications by ENW and Deltares.
- 2019
USA New York / New Jersey Harbor and Tributaries Study (HATS)
Expert
Study on alternatives for future flood risk reduction in the NY / NJ region. Activities included a review of storm surge barrier concepts and designs. Client: Moffatt & Nichol
- 2018
China Submerged floating tunnels
Co PI and Risk expert
Research program on the concept of submerged floating tunnels. Various work packages address fluid structure interaction, hydrodynamics and risk of the SFT concept. In total 4 PhD's at TU Delft. Partners include TEC (Tunnel Engineering Consultants), CCCC and various research institutes
- 2017 – present All Risk: implementation of new risk based standards in the Dutch flood protection program
Work package leader and supervisor of 3 PhD's
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- Large research project to develop fundamental and applicable knowledge for the Dutch flood protection program (HWBP). Lead for work package on flood defences (6PhD's) and supervision of PhD's for piping failure, sheet pile reinforces defences, and effects of foreshores on overtopping reliability.
Total size, around 4 MEuro, 14 PhD's, 4 postdocs (5 PhD's and 1 postdoc in our group),
Funded by NWO (NL national science foundation) with support of end-users
- 2016
Tokyo, Japan
Exchange workshop on challenges in coastal flood risk reduction
PI on Dutch side
Both the Netherlands and Japan are threatened by coastal flooding (typhoons, tsunamis, storm surges). The objective of this seminar was to exchange information between leading Dutch and Japanese researchers to improve the methods for assessing and managing coastal flood risks. During the seminar information on latest developments in the field of flood risk and disaster management in the Netherlands and Japan were shared. A multi-day visit to the areas affect by the 2011 tsunami was organized to visit the reconstructed areas and learn from the implemented risk reduction strategies. Funded by NWO and JSPS, 10 k€
- 2016 – 2020
BRIGAIID: Bridging the Gap for Innovations in Disaster resilience
Coordinator and scientific director
The ambition of BRIGAIID is to provide structural and ongoing support for innovations for climate adaptation and the reduction of risks of floods, drought and extreme weather. This is achieved by developing an innovative mix of assessment methods and tools which should become the new standards. As part of the project new facilities will be developed, such as Flood Proof Romania, a new test site in Romania. The project involves 24 academic and industry partners from 13 countries including Israel, Curacao, Romania, and Albania. Funded by the European Commission, Total 7.8 M€, of which around 1.5 M€ at TU Delft
- 2015 – present
SAFElevee, Improving the reliability of flood defence systems by a better understanding of their failure mechanisms
Principal investigator
Research on the collection and analysis of historical failures of flood defences. 2 PhD's and one postdoc on aspects such as macro scale levee failure patterns, hindcasting of historical failures and breaches. Partners represent governments (USACE, Rijkswaterstaat) and industry.
Funded by STW, € 750,000
- 2014 - 2019
BE-SAFE, safety of vegetated foreshores
Principal investigator
Research on flood risk reduction due to vegetated foreshores. This research integrates hydraulic engineering, biogeomorphology, ecology and governance. An actual dike reinforcement is used to demonstrate the implementation of vegetated foreshores. Project performed with U. Twente and NIOZ
Funded by NWO (Dutch National Science Foundation), total budget around € 950,000 (50% at TU Delft)
- 2009 - current
Review and expert advisor for several civil and hydraulic engineering projects
Expert, hydraulic structures, flood risk and dikes
Selected projects:
 - Catchment risk reduction study for the Geul river (with Deltares) (2022)
 - New risk-based safety standards for flood defences in the Netherlands (part of ENW)
 - Review of the design of a storm surge barrier in Oostende (Belgium)
 - Blankenburg tunnel crossing through flood defences (Rijkswaterstaat)
 - Stolt Nielsen, risk-based terminal design, LA, USA (Royal Haskoning)
 - Review of the Dike reinforcement plan for Lelystad (Water board Zuiderzeeland)
 - Plans for reinforcement of the Afsluitdijk (Rijkswaterstaat)
 - Loss of life models and their applications to dams (HARC Consulting, Australia)
 - Review of the effects of Sharq Crossing (Qatar) on hydraulics and sedimentation (2020)

- Rangitaiki River Basin study (New Zealand), reviewer and expert (2021)
- Netherlands Commission for Environmental Assessment (2020 – present), reviewer / expert of dike reinforcement plans for Flevoland, rivers Meuse and Lek, Wadden Sea.
- Review panel of the Eastern Scheldt barrier, scour holes
- Dutch Safety Board (Onderzoeksraad Veiligheid): Evaluation of the shipping accident at weir Grave
- Feasibility of tidal energy in Zeeland, at the Brouwersdam
- Training on integrated flood management in Thailand with Kasetsart University (funded by Nuffic) (2014)
- Training on sustainable dike and flood risk management in Mozambique, Limpopo and Incomati river basins (supported by Nuffic)
- Field investigation and preliminary flood risk analysis of the Shanghai Flood Defence system, supported by FM Global Insurance (2013)
- Advisor for the US Bureau of Reclamation on further development of methods for loss of life estimation (2011)
- Study on global unit costs of coastal adaptation (funded by Southampton University) (2010)
- Advisor for the sea dike program in Vietnam on risk assessment methods (2009)

2013 - present <i>Texas, USA</i>	<p>Houston Galveston Bay flood risk reduction <i>Principal investigator</i></p> <p>Multidisciplinary research and design study on flood risk reduction for the area, including engineering design of interventions, such as storm surge barriers. Scientific coordinator for efforts within TU Delft with inputs from civil engineering, architecture and policy. Activities include the design of the coastal spine protection scheme features (land barriers and storm surge barrier), strategic advice and review and several exchange workshops. Also, A risk-based optimization framework to assess the different (combinations) of interventions has been developed for Galveston Bay. In collaboration with Texas A&M and Rice University.</p>
2012 - present <i>United States</i>	<p>Comparative research on loss of life, evacuation and emergency management (EEM) methods (in preparation) <i>Principal investigator / expert</i></p> <p>Research program in which Dutch methods for loss of life estimation and evacuation analysis are applied to levee systems in the United States (New Orleans, California and Florida). Funded by the United States Army Corps of Engineers, US \$100,000 (with HKV consultants)</p>
2012 – 2016	<p>Research program on multifunctional flood defences, subproject 1.1.1 “Hydraulic impact of overtopping waves on a multifunctional dike” <i>Initiator / co-supervisor</i></p> <p>PhD research to investigate wave overtopping and impacts on buildings on coastal dikes in Belgium, supported by Flanders Hydraulic Lab, ± € 140,000</p>
2012 <i>Thailand</i>	<p>Post-flood field investigation in the Lower Chao Phraya Basin <i>Team leader / expert</i></p> <p>Field investigation focusing on the effects of the 2011 floods in Thailand on the flood management system (levees, structures). Supported by the Expertise Network on Flood Protection, ± € 40,000</p>
2007 – 2011	<p>BC Hydro Life Safety Model <i>Team leader / advisor</i></p> <p>BC Hydro has developed a life safety model that simulates the consequences of dam breaks. This project involved research activities and the application of the model in some case studies. Funded by British Columbia Hydro, ± € 100,000</p>
2006 – 2007 <i>New Orleans,</i>	<p>Field investigation in New Orleans after hurricane Katrina (2005) <i>researcher</i></p>

United States Field investigations focusing on levee failures, damage and loss of life.

5.2 Projects Royal Haskoning between 2007 – 2012 (selected)

- Thailand: development of flood risk reduction solutions for private clients
- the Netherlands: contributions to the flood risk analysis studies (VNK) and policy advisor (secondment, 0.5 fte) for the ministry of Infrastructure and Water; Review of the Ramspol storm surge barrier; studies for the Dutch delta program, city of Almere, port of Rotterdam and The Hague / Scheveningen on climate adaptation and flood risk reduction.
- Qatar: flood risk analysis for a siting study for nuclear power plants
- New Orleans (USA): development of a levee information management system for the flood control authority
- Belgium: study on mobile flood defences for the city of Antwerp
- Romania: Teleorman flood risk management study.
- Cambodia / Mekong River Commission: flood risk management training and guidelines

5.3 Projects University of California, Berkeley

2011
Berkeley, California, United States RESIN: Resilient and Sustainable Infrastructure Networks in the Sacramento San Joaquin River Delta
Visiting Scholar / researcher
Project management and coordination for the RESIN project that aims to develop methods and approaches to analyze and manage (interconnected) infrastructure systems in deltas. As a case study the Sacramento San Joaquin River delta is chosen. This included the organization of an international seminar on levee safety and reliability at UC Berkeley (May 13, 2011).

6. Teaching

2022 – present Guest lecturer for the coastal resiliency course at Texas A&M Galveston

2012 – present Master of Science thesis (TU Delft, CIE5060-09). Responsible for the supervision of about 200 Master students for their graduation projects (about 15 - 20 per year), in the field of hydraulic structures and flood risk and generally as a chairman.

2014 Contribution to the MOOC (Massive Online Open Course) on Water and Climate, for The module on Flood Defences.

2013 – 2023 TU Delft, CIE5314, Flood Defences, responsible for co-organizing and teaching of the modules on flood risk analysis and (probabilistic) design of flood defence systems (about 60 students per year).

2007 – 2023 TU Delft: CIE4130, Probabilistic design and risk management in civil engineering, Responsible for organizing and teaching a large part of this course that is part of the Msc program civil engineering (about 400 students per year).

2011 University of California, Berkeley: (guest)lectures and supervision of Bsc and Msc students, as part of the course CE 180: Design, Construction, Maintenance of Civil and Environmental Engineered Systems.

2001 – present TU Delft: Guest lectures in the field of risk management, flood risk, hydraulic engineering. for several courses: Financial Engineering (CME2300), introduction to hydraulic engineering (CT2320) and several post-academic courses.

7. Supervision of Doctoral (PhD) research

Promotor and supervisor of the following completed PhD projects:

1. Qian Ke (November 11, 2014) flood risk analysis for Shanghai; with prof. Vrijling
2. Xuexue Chen (November 2, 2016) Hydraulic impacts of overtopping waves on buildings; with prof. W. Uijttewaal and dr. B. Hofland

3. Dominik Paprotny (November 14, 2018) Pan European flood hazard modelling, with O. Morales Napoles
4. Kasper Lendering (November 26, 2018), Advancing methods for evaluating flood risk reduction measures, with prof. M. Kok
5. Vincent Vuik (March , 2019) Building Safety with Nature: salt marshes for flood risk reduction, with dr. B. Borsje
6. Alfred A. Roubos (16 October, 2019) Enhancing reliability-based assessments of quay walls, with prof. R. Steenbergen (Gent University)
7. Ece Ozer (May 25, 2020) Understanding Levee Failures From Historical and Satellite Observations, with prof. R. Hanssen
8. Chris Harold Lashley (Nov 3, 2021) The influence of infragravity waves on overtopping at coastal structures with shallow foreshores, with J. van der Meer (IHE) and J.D. Bricker
9. Erik C. van Berchum (June 14, 2022) Advancing Flood Risk Screening, with prof. M. Kok
10. Arny J. Lengkeek (June 17, 2022) Testing and modelling of sheet pile reinforced dikes on organic soils, (with dr. R. Brinkgreve)
11. Orson C. Tieleman (June 28, 2022), Wave-induced vibrations of flood gates, with dr. B. Hofland, dr. A. Tsouvalas
12. Joost C. Pol, (December 7, 2022) Time-dependent development of Backward Erosion Piping, with dr. W. Kanning, prof. M. Kok, *PhD with distinction / cum laude*.
13. Job. J. Kool, (December 22, 2022) hindcasting of levee failures, with W. Kanning and C. Jommi
14. Ermano de Almeida (May 15, 2023) Another hit on the wall – confined wave impacts on hydraulic structures, with dr. B. Hofland and dr. A. Antonini.
15. Paul B. Sayers (May 25, 2023) Strategic Flood Risk Management: A System-Based Approach, with prof. C. Zevenbergen
16. Mart Jan Hemel (Nov 30, 2023) Amsterdam quays under pressure – modelling and testing of historic quay walls, with dr. M. Korff and dr. D.J. Peters
17. Danny Janssen (June 3, 2024) Bresdefencer – an experimental study on an emergency response measure for levee breaches. With dr. B. Hofland and ir. A. Schmets (NLDA)
18. Hans van Duivendijk (June 17, 2024) Fighting Against the Current - Restoring dike breaches and damming tidal channels by simple means – from past to present, with dr. B. Hofland and dr. M. Voorendt
19. Hanqing Xu (September 3, 2024) Compound flood hazards in Chinese Coastal cities, with E. Ragno and J. Wang (ECNU)

Ongoing: (Co-)supervisor of more than 15 PhD researchers in the field of flood risk and hydraulic structures.

Independent committee member for over 40 PhD defences – at TU Delft and other institutions.

Engineering doctorates (a 2 year design-oriented engineering doctorate)

- a) Luc Ponsioen (Nov 9, 2023) A proof of concept digital twin for the Maeslant storm surge barrier, with A. Bakker

8. Invited lectures (selected)

Jonkman has presented presentations and keynote lectures at various institutes, universities, conferences and workshops. A few examples include:

- Delft University of Technology, Speaker at the Dies Natalis of the university on the theme of “redesigning deltas”, Jan 12, 2024.
- Michigan University, Coastal adaptation in the Netherlands and US, Jan 2022
- Global Policy Institute, Washington, Adaptation to sea level rise, December 2020
- Delta Urbanism conference, Delft, June 2020
- The Foundation of Science and Technology, London, October 2016
- Monash University, Australia, March 2016.
- The University of Tokyo, November 2015
- Rice University, Houston, Texas, April 2015
- The Australian Flood Management conference, May 2015

9. Honours and awards

- Hagler Institute for Advanced Study, Texas A&M, 2022 / 2023 Fellowship

- Honorary member of Practische Studie, Civil engineering student association at TU Delft (as of 2022).
- Honorary member of the Hydraulic engineering student association at TU Delft (as of 2018)
- Journal of Flood Risk Management, 2019 Best Paper Award
- Society of Risk Analysis, 2009 best paper award for the journal of Risk Analysis

Several Msc and PhD students have won awards for their work: these include the 2019 Wadden Academy price (Vincent Vuik for his PhD thesis), and several winners of the annual hydraulic engineering award for the best Msc thesis, as well as the thesis award by Delfland water authority.

10. List of (selected) publications

10.1 Journal publications

- L. F. Mooyaart, A. M. R. Bakker, J. A. van den Bogaard, R. E. Jorissen, T. Rijcken, S. N. Jonkman (2024) Storm surge barrier performance—The effect of barrier failures on extreme water level frequencies. *Journal of Flood Risk Management* Volume 18, Issue 1, e13048. First published: 29 December 2024
<https://doi.org/10.1111/jfr3.13048>
- Jonkman, S.N., Curran, A. & Bouwer, L.M. (2024) Floods have become less deadly: an analysis of global flood fatalities 1975–2022. *Nat Hazards*, <https://doi.org/10.1007/s11069-024-06444-0>
- Jonkman SN, Merrell WJ (2024) Discussion of “Coastal Defense Megaprojects in an Era of Sea-Level Rise: Politically Feasible Strategies or Army Corps Fantasies?”. *Journal of Water Resources Planning and Management* Volume 150, Issue 4 <https://doi.org/10.1061/JWRMD5.WRENG-618>
- Bentivoglio, R., Isufi, E., Jonkman, S. N., and Taormina, R.: Rapid spatio-temporal flood modelling via hydraulics-based graph neural networks, *Hydrol. Earth Syst. Sci.*, 27, 4227–4246, <https://doi.org/10.5194/hess-27-4227-2023>, 2023.
- Vader H, Bakker AMR, Jonkman SN, van den Boomen M, van Baaren E, Diermanse FLM (2023) A framework for assessing the remaining life of storm surge barriers. *Structure and Infrastructure Engineering*. <https://doi.org/10.1080/15732479.2023.2177874>
- Xu H, Ragno E, Tan J, Antonini A, Bricker JD, Jonkman SN, Liu Q, Wang J (2023) Perspectives on Compound Flooding in Chinese Estuary Regions, *International Journal of Disaster Risk Science* volume 14, pages 269–279
- Mooyaart L.F., Bakker A.M.R., van den Bogaard J.A., Rijcken T., Jonkman S.N. (2023) Economic optimization of coastal flood defence systems including storm surge barrier closure reliability, *Journal of Flood Risk Management* Volume 16, Issue 3 e12904
- Pol JC, Kindermann P, van der Krogt MG, van Bergeijk VM, Remmerswaal G, Kanning W, Jonkman SN, Kok M. (2023) The effect of interactions between failure mechanisms on the reliability of flood defenses, *Reliability Engineering & System Safety*, Volume 231, 108987, <https://doi.org/10.1016/j.res.2022.108987>.
- Bentivoglio R, Isufi E, Jonkman SN, Taormina R (2022) Deep learning methods for flood mapping: a review of existing applications and future research directions, *Hydrology and Earth System Sciences* 26 (16), 4345–4378
- Torres-Alves GA, Morales-Nápoles O, Jonkman SN (2022) Structural reliability analysis of a submerged floating tunnel under copula-based traffic load simulations. *Engineering Structures* 269, 114752
- Pol JC, Kindermann P, van der Krogt MG, van Bergeijk VM, Remmerswaal G, Kanning W, Jonkman SN, Kok M (2023) The effect of interactions between failure mechanisms on the reliability of flood defences. *Reliability Engineering & System Safety*, Volume 231, <https://doi.org/10.1016/j.res.2022.108987>.
- Diaz Loaiza M.A., Bricker J.D., Meynadier R, Trang Minh Duong, Ranasinghe R., Jonkman S.N. (2022) Development of damage curves for buildings near La Rochelle during storm Xynthia based on insurance claims and hydrodynamic simulations. *Nat. Hazards Earth Syst. Sci.*, 22, 345–360, 2022
- Pol, J.C., Kanning, W., van Beek, V.M., Robbins B.A., Jonkman S.N. (2022) I. Temporal evolution of backward erosion piping in small-scale experiments. *Acta Geotech.* <https://doi.org/10.1007/s11440-022-01545-1>
- Kool J.J., Kanning W., Jonkman S.N. (2022) The influence of deviating conditions on levee failure rates. *Journal of Flood Risk Management* e12784
- Lashley C.H. Jonkman S.N.; Van der Meer J., Bricker J.D., Vuik V. (2021) The Influence of Infragravity Waves on the Safety of Coastal Defences: A Case Study of the Dutch Wadden Sea, *Natural Hazards and Earth System Sciences Discussions*, 1–40

- Schlumberger J., Ferrarin C., Jonkman S.N., Diaz Loaiza M.A, Antonini A., Fatorić S. (2022) Developing a framework for the assessment of current and future flood risk in Venice, Italy; *Natural Hazards and Earth System Sciences* 22, 2381–2400, <https://doi.org/10.5194/nhess-22-2381-2022>
- Gijón Mancheño A., Herman P.M.J., Jonkman S.N., Kazi S., Urrutia I., van Ledden M (2021) Mapping mangrove opportunities with open access data: A case study for Bangladesh, *Sustainability* 13,(15), 8212
- Roubos A.A., Schweckendiek T., Brinkgreve, R.B.J., Steenbergen, R.D.J.M., Jonkman S.N. (2021) Finite element-based reliability assessment of quay walls, *Georisk*: 15 (3) 165-181
- Pol J.C., Kanning W. Jonkman S.N. (2021) Temporal Development of Backward Erosion Piping in a Large-Scale Experiment, *ASCE Journal of Geotechnical and Geoenvironmental Engineering*, 147, (2), 04020168, 2021
- Ke, Qian; Yin J., Bricker J.D., Savage N., Buonomo E., Ye Q., Visser P.J., Dong G., Wang, Shuai, Tian Zhan (2021); ,An integrated framework of coastal flood modelling under the failures of sea dikes: a case study in Shanghai, *Natural Hazards*, 1-33
- Tieleman O.C., Hofland B., Tsouvalas A., de Almeida E., Jonkman S.N. (2021) A fluid–structure interaction model for assessing the safety of flood gate vibrations due to wave impacts, *Coastal Engineering* Col 170, 104007
- Brussee A.R., Bricker J.D., De Bruijn K.M., Verhoeven G.F., Winsemius H.C., Jonkman S.N. (2021) Impact of hydraulic model resolution and loss of life model modification on flood fatality risk estimation: Case study of the Bommelerwaard, The Netherlands. *Journal of Flood Risk Management* e12713. <https://doi.org/10.1111/jfr3.12713>
- Jonkman S.N. (2020) Sustainable coastal adaptation is possible. *Journal of Delta Urbanism* Vol. 1 No. 1, pp62-64. <https://journals.open.tudelft.nl/jdu/>
- Kool J.J., Kanning W., Jommi C., Jonkman S.N. (2020) A Bayesian hindcasting method of levee failures applied to the Breitenhagen slope failure, *Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards*, DOI: [10.1080/17499518.2020.1815213](https://doi.org/10.1080/17499518.2020.1815213)
- Yin J., Jonkman S.N., Ning Lin, Dapeng Yu, Jeroen Aerts, Robert Wilby, Ming Pan, Eric Wood, Jeremy Bricker, Qian Ke, Zhenzhong Zeng, Qing Zhao, Jianzhong Ge, Jun Wang (2020) Flood Risks in Sinking Delta Cities: Time for a Reevaluation? *Earth's Future* Volume 8, Issue 8. <https://doi.org/10.1029/2020EF001614>
- Meinen, N.E.; Steenbergen, R.D.J.M.; Hofland, B.; Jonkman, S.N. Applicability of the Goda–Takahashi Wave Load Formula for Vertical Slender Hydraulic Structures. *J. Mar. Sci. Eng.* 2020, 8(11), 868
- Zhu, Z., Vuiik, V., Visser, P. J., Soens, T., van Wesenbeeck, B., van de Koppel, J., Jonkman, S. N., Temmerman, S. & Bouma, T. J. (2020) Historic storms and the hidden value of coastal wetlands for nature-based flood defence In : *Nature Sustainability*.
- Van Berchum, E. C., van Ledden, M., Timmermans, J. S., Kwakkel, J. H., and Jonkman, S. N. (2020) Rapid flood risk screening model for compound flood events in Beira, Mozambique, *Nat. Hazards Earth Syst. Sci. Discuss.*, <https://doi.org/10.5194/nhess-2020-56>, in review
- Roubos, A. A., Allaix, D. L., Schweckendiek, T., Steenbergen, R. D. J. M. & Jonkman, S. N. (2020) Time-dependent reliability analysis of service-proven quay walls subject to corrosion-induced degradation. *Reliability Engineering and System Safety*. 203, 15 p., 107085.
- Özer, I.E.; van Damme, M.; Jonkman, S.N. (2020) Towards an International Levee Performance Database (ILPD) and Its Use for Macro-Scale Analysis of Levee Breaches and Failures. *Water* 2020, 12, 119.
- Lendering KT, Jonkman S.N., van Ledden M., Vrijling J.K. (2019) Defend or raise? Optimising flood risk reduction strategies, *Journal of Flood Risk Management*, online publication. <https://doi.org/10.1111/jfr3.12553>
- van Berchum EC, Mobley W, Jonkman SN, Timmermans JS, Kwakkel JH, Brody SD (2019) Evaluation of flood risk reduction strategies through combinations of interventions. *Journal of Flood Risk Management* 12 (S2) <https://doi.org/10.1111/jfr3.12506>
- Kool J.J., Kanning W., Jommi C., Heyer T., Jonkman S.N. (2019) Forensic Analysis of Levee Failures: The Breitenhagen Case. *International Journal of Geoenvironment Case Histories*, Vol.5, Issue 2, p. 70 - 92. doi: 10.4417/IJGCH-05-02-02
- Vuik V., Borsje B.W., Willemsen P.W.J.M., Jonkman S.N. (2019) Salt marshes for flood risk reduction: Quantifying long-term effectiveness and life-cycle costs, *Ocean & Coastal Management*, Volume 171, 1 April 2019, Pages 96-110
- Tieleman O.C., Tsouvalas A., Hofland B., Peng Y., Jonkman S.N. (2019) A three dimensional semi-analytical model for the prediction of gate vibrations immersed in fluid. *Marine Structures* 65 (2019) 134–153; <https://doi.org/10.1016/j.marstruc.2018.12.007>

- Oudenbroek K, Naderi N, Bricker JD, Yang Y, van der Veen C, Uijttewaal W, Moriguchi S, Jonkman SN (2018) Hydrodynamic and Debris-Damming Failure of Bridge Decks and Piers in Steady Flow. *Geosciences* 2018, 8(11), 409; Special issue on River, Urban, and Coastal Flood Risk
<https://doi.org/10.3390/geosciences8110409>
- Korswagen P.A., Jonkman S.N., Terwel K.C. (2018) Probabilistic assessment of structural damage from coupled multi-hazards. *Structural Safety* Vol. 76, January 2019, Pages 135-148
- Roubos AA., Steenbergen RDJM, Schweckendiek T, Jonkman SN (2018) Risk-based target reliability indices for quay walls *Structural Safety* Vol. 75 Nov 2018, pp.89 - 109
- Ke Q., Jonkman S.N., van Gelder P.H.A.J.M., Bricker J.D.(2018) Frequency Analysis of Storm-Surge-Induced Flooding for the Huangpu River in Shanghai, China; *J. Mar. Sci. Eng.* 2018, 6(2), 70;
<https://doi.org/10.3390/jmse6020070>
- Vuik V., van Vuren S., Borsje B.W., van Wesenbeeck B.K., Jonkman S.N. (2018) Assessing safety of nature-based flood defenses: Dealing with extremes and uncertainties; *Coastal Engineering Volume 139, September 2018, Pages 47–64*
- Paprotny D., Sebastian A., Morales-Nápoles O., Jonkman S.N. (2018) Trends in flood losses in Europe over the past 150 years. *Nature Communications* Vol. 9, art. Nr. 1985, doi:10.1038/s41467-018-04253-1
- Paprotny D, Morales Napoles A, Voudouskas MI, Jonkman SN, Nikulin G (2018) Accuracy of pan-European coastal flood mapping. *Journal of Flood Risk Management*, online version,
<https://doi.org/10.1111/jfr3.12459>
- Paprotny D., Morales-Nápoles O; Jonkman SN (2018) HANZE: a pan-European database of exposure to natural hazards and damaging historical floods since 1870 *Earth System Science Data*; Vol. 10, Iss. 1, (2018): 565-581. <https://doi.org/10.5194/essd-10-565-2018>
- Jonkman S.N., Voortman H.G, Klerk W.J., van Vuren S. (2018) Developments in the management of flood defences and hydraulic infrastructure in the Netherlands, *Structure and Infrastructure Engineering*, 14:7, 895-910, DOI: 10.1080/15732479.2018.1441317
- Jonkman, S. N., Godfroy, M., Sebastian, A., and Kolen, B. (2018) Brief communication: Loss of life due to Hurricane Harvey, *Nat. Hazards Earth Syst. Sci.*, 18, 1073-1078, <https://doi.org/10.5194/nhess-18-1073-2018>, 2018.
- Oosterlo P., McCall R.T., Vuik V., Hofland B., van der Meer J.W., Jonkman S.N. (2018) Probabilistic Assessment of Overtopping of Sea Dikes with Foreshores including Infragravity Waves and Morphological Changes: Westkapelle Case Study. *Journal of Marine Science and Engineering* 6(2), 48;
<https://doi.org/10.3390/jmse6020048>
- Bouwer L.M., Jonkman S.N. (2018) Global mortality from storm surges is decreasing, *Environmental Research Letters*, Vol. 13 No. 1 <http://iopscience.iop.org/article/10.1088/1748-9326/aa98a3>
- Vuik, V., Suh Heo, H.Y., Zhu, Z., Borsje, B.W., and Jonkman, S.N. (2018). Stem breakage of salt marsh vegetation under wave forcing: a field and model study. *Estuarine, Coastal and Shelf Science* 200, pp 41 - 56
- Paprotny D., Morales – Napoles O., Jonkman S.N. (2017) Efficient pan-European river flood hazard modelling through a combination of statistical and physical models. *Nat. Hazards Earth Syst. Sci.*, 17, 1267-1283, 2017; <https://doi.org/10.5194/nhess-17-1267-2017>
- Chen, X.; Jonkman, S.N.; Pasterkamp, S.; Suzuki, T.; Altomare, C. (2017) Vulnerability of Buildings on Coastal Dikes due to Wave Overtopping. *Water* 2017, 9, 394.
- Okumura N., Jonkman S.N., Esteban M., Hofland B., Shibayama T. (2017) a method for tsunami risk assessment: a case study for Kamakura, Japan. *Natural Hazards* 88 (3), 1451 – 1472
- Mooyaart L.F., Jonkman S.N. (2017) Overview and design considerations of storm surge. *ASCE Journal of Waterway, Port, Coastal, and Ocean Engineering* Vol. 143 Issue 4
[http://dx.doi.org/10.1061/\(ASCE\)WW.1943-5460.0000383#sthash.H6wdGIFV.dpuf](http://dx.doi.org/10.1061/(ASCE)WW.1943-5460.0000383#sthash.H6wdGIFV.dpuf)
- Bischiniotis K., W. Kanning, S.N. Jonkman and M. Kok (2016) cost-optimal design of river dikes using probabilistic methods. *Journal of Flood Risk Management*, online:
<http://onlinelibrary.wiley.com/doi/10.1111/jfr3.12277/full>
- Vuik V., Jonkman S.N., Borsje B.W., Suzuki T. (2016) Nature-based flood protection: The efficiency of vegetated foreshores for reducing wave loads on coastal dikes *Coastal Engineering Volume 116, October 2016, Pages 42–56*
- Roe E., Bea R.G., Jonkman S.N., Faucher de Corn H., Foster H., Radke J., Schulman P., Storesund R. (2016) Risk Assessment and Management (RAM) for Interconnected Critical Infrastructure Systems (ICIS) at the Site and Regional Levels in California’s Sacramento – San Joaquin Delta. *Int. Journal of Critical Infrastructures* Vol. 12 No. 1/2, pp.143-174

- Habets C.J.W., Peters D.J., de Gijt J.G., Metrikine A.V., Jonkman S. N. (2016) Model Solutions for Performance-Based Seismic Analysis of an Anchored Sheet Pile Quay Wall, *International Journal of Civil, Environmental, Structural, Construction and Architectural Engineering* Vol:10, No:3, 2016
- Lendering K.T., Jonkman S.N., Kok M. (2016) Effectiveness of emergency measures for flood prevention, *Journal of Flood risk Management* 9 (4) , 320-334.
- Lendering K.T., Jonkman S.N., van Gelder P.H.A.J.M, Peters D.J. (2015) Risk-based optimization of land reclamation, *Reliability Engineering and System safety Volume 144*, December 2015, Pages 193–203
- Jonkman S.N., Schweckendiek T. (2015) Briefing: lessons learned from failure of flood defences. *Forensic Engineering* Vol 168 Issue FE2 pp. 85-88.
- Miller, A., Jonkman, S. N., and Van Ledden, M.: Risk to life due to flooding in post-Katrina New Orleans, *Nat. Hazards Earth Syst. Sci.*, 15, 59-73, doi:10.5194/nhess-15-59-2015, 2015.
- Stijnen J.W., Kanning W., Kok M., Jonkman S.N. (2014) Sustainability of the Dutch polder approach. *Journal of Flood Risk Management*. Vol 7 Issue 1, pages 3–15, March 2014
- Jonkman S.N. (2013) Advanced flood risk analysis required. *Nature Climate Change* Vol. 3, Dec. 2013 1004
- Kolen B., Slomp R., Jonkman S.N. (2013) The impacts of Storm Xynthia Feb. 27-28, 2010 in France: first lessons for flood risk management. *Journal of Flood Risk Management, Vol. 6 Issue 3, pp. 261 - 278*
- Jonkman S.N., Hillen M.M., Nicholls R.J., Kanning, W., van Ledden M. (2013) Costs of adapting coastal defences to sea-level rise – new estimates and their implications. *Journal of Coastal Research*, 29 (5) 1212-1226
- Jonkman S.N., Hiel L.A., Bea R.G., Foster H., Tsioulou A., Arroyo P., Stallard T., Harris L. (2012) Integrated Risk Assessment for the Natomas Basin (CA) Analysis of Loss of Life and Emergency Management for Floods. *ASCE Natural Hazards Review*, Volume 13, Issue 4 (November 2012), pp. 297 - 309.
- Jonkman S.N., Dawson R.J. (2012) Issues and challenges in flood risk management – editorial for the special issue on flood risk management. *Water*, 4, 785-792;
- De Leeuw S., Vis I.F.A., Jonkman S.N. (2012) Exploring logistics aspects of flood emergency measures. *Journal of Crisis and Contingency Management* 20 (30), 166-179
- Jongejan R.B., Jonkman S.N., Vrijling J.K. (2012) The safety chain: a delusive concept. *Safety Science, Vol. 50 Issue 5, pp. 1299-1303.*
- Jonkman S.N., Jongejan R.B., Maaskant B. (2011) The Use of Individual and Societal Risk Criteria within the Dutch Flood Safety Policy—Nationwide Estimates of Societal Risk and Policy Applications, *Risk Analysis*, Vol. 31 No. 2, pp. 282-300
- Jongejan R.B., Jonkman S.N., Aven T., Ale B.J.M. (2011) Propositions for using risk acceptance criteria. *Int. J. Business Continuity and Risk Management, Vol. 2, No. 1, 2011, pp. 79-90.*
- Jonkman S.N., Lentz A., Vrijling J.K. (2010) A general approach for the estimation of loss of life due to natural and technological disasters. *Reliability Engineering and System Safety* 95, pp. 1123-1133
- Jonkman S.N., Maaskant B., Boyd E., Levitan M.L. (2009) Loss of life caused by the flooding of New Orleans after hurricane Katrina: Analysis of the relationship between flood characteristics and mortality. *Risk Analysis* Vol. 29, No. 5, pp. 676-698 – Best paper award Society of Risk Analysis 2009
- Jonkman S.N., Kok M., van Ledden M., Vrijling J.K. (2009) Risk-based design of flood defence systems: a preliminary analysis of the optimal protection level for the New Orleans metropolitan area. *Journal of Flood Risk Management* Vol. 2 Issue 3, p.170-181.
- Maaskant, B., Jonkman, S.N., & Bouwer, L.M. (2009). Future risk of flooding: an analysis of changes in potential loss of life in South Holland (The Netherlands). *Environmental Science and Policy*, 12, 157-169.
- Pistrika A., Jonkman S.N. (2009) Damage to residential buildings due to flooding of New Orleans after hurricane Katrina. *Natural Hazards: Volume 54, Issue 2 (2010), Page 413-434;*
- Jonkman S.N., Bockarjova M., Kok M., Bernardini P. (2008) Integrated Hydrodynamic and Economic Modelling of Flood Damage in the Netherlands, *Ecological Economics* 66, pp. 77-90
- Jonkman S.N., Vrijling J.K., Vrouwenvelder A.C.W.M. (2008) Methods for the estimation of loss of life due to floods: A literature review and a proposal for a new method, *Natural Hazards, Vol.46/3, pp. 353-389*
- Jonkman S.N., Vrijling J.K. (2008) Loss of life due to floods, *Journal of Flood Risk Management* 1, pp. 43-56
- Jongejan R.B., Vrijling J.K., Stive M.J.F., Jonkman S.N. (2008) A comment on “Changing estuaries, changing views” *Hydrobiologia* 605, pp. 11-15 (opinion paper)
- Jonkman S.N., Penning-Rowsell E. (2008) Human instability in flood flows, *Journal of the American Water Resources Association (JAWRA)* Vol. 44 No. 4 August 1008, pp. 1-11
- Jonkman S.N., Vrijling J.K., Kok M. (2008) Flood risk assessment in the Netherlands: A case study for dike ring South Holland, *Risk Analysis* Vol. 28, No. 5, pp.1357-1373

- Fundter D.Q.P, Jonkman B., Beerman S., Goemans C.L.P.M., Briggs R., Coumans F., Lahaye J.W., Bierens J. (2008) TAP report: Health Impacts of Large-Scale Floods: Governmental Decision-Making and Resilience of the Citizens. *Journal of Prehospital and Disaster Medicine*, Vol. 23 Suppl. 2, pp. s70-s73.
- Van Mierlo, M.C.L.M., Vrouwenvelder A.C.W.M., Calle E.O.F., Vrijling J.K., Jonkman S.N., de Bruijn K.M., Weerts A.H. (2007) Assessment of flood risk accounting for river system behaviour. *Int. J. River Basin Management* Vol. 5 No. 2 pp. 93-104
- Jonkman, S.N. (2005) Global perspectives of loss of human life caused by floods, *Natural Hazards*, Vol. 34 pp. 151-175
- Jonkman S.N., Kelman I. (2005) An analysis of causes and circumstances of flood disaster deaths, *Disasters*, Vol. 29 No. 1 pp. 75-97
- Jonkman S.N., Brinkhuis M., Kok M. (2004) Cost benefit analysis and flood damage mitigation in the Netherlands, *Heron* Vol. 49 No. 1 pp. 95-111
- Arends B., Jonkman S.N., Vrijling J.K., van Gelder P.H.A.J.M. (2005) Evaluation of tunnel safety; Towards an economic safety optimum, *Reliability Engineering and System Safety* 90, pp. 217-228
- Jonkman S.N., Stive M.J.F., Vrijling J.K. (2005) New Orleans is a lesson to the Dutch, *Journal of Coastal research*, Vol. 26 No. 6, pp. xi-xii (editorial)
- Jonkman S.N., van Gelder P.H.A.J.M., Vrijling J.K. (2003) An overview of quantitative risk measures for loss of life and economic damage, *Journal of Hazardous Materials* A99 pp. 1–30

Reviewer for the following journals: Risk Analysis, Natural Hazards, Journal of Flood Risk Management, Journal of River Basin Management, Disasters, Journal of Hazardous Materials, Natural Hazards Earth Systems Sciences, Global Environmental Change, Safety Science, Reliability Engineering and System Safety, Nature Climate Change and other journals.

Guest editor for the special issue on flood risk management for the Journal *Water*
http://www.mdpi.com/journal/water/special_issues/flood_risk_manag/

Editor in chief for the new Journal of Coastal and Riverine Flood Risk (with M Esteban, JD Bricker, G Martinez), a fully open access journal to be launched in March 2022.
<https://journals.open.tudelft.nl/jcfr/index>

10.2 Dissertation

Jonkman S.N. (2007) Loss of life estimation in flood risk assessment. Theory and applications. PhD thesis Delft University (354 pag.)

10.3 Datasets

- Slager, Kymo; Jonkman, S.N. ;de Moel, Hans; Strijker, Bart (2021): The 2021 floods in the Netherlands: datasets. 4TU.ResearchData. Collection. <https://doi.org/10.4121/c.5660032.v1>
- Jonkman, Sebastiaan N. (2020): Loss of life due to floods; Data underlying the dissertation: Loss of life estimation in flood risk assessment - theory and applications. 4TU.ResearchData. Dataset. <https://doi.org/10.4121/uuid:4db45ff2-f987-415f-95fa-a04b6d81d482>
- Pol J. Kanning W., Jonkman S.N. (2020) Flood Proof Holland (FPH) piping experiment December 2018 Kluijver, Maarten; Dols, C. (Chris); Jonkman, Sebastiaan N.; Mooyaart, L.F. (Leslie) (2019): Dataset in support of Advances in the Planning and Conceptual Design of Storm Surge Barriers. 4TU.ResearchData. Dataset. <https://doi.org/10.4121/uuid:9820d43f-9e20-48a6-a791-59e634fab30e>
- Godfroy, M. (Maartje); Jonkman S.N. (Bas) (2017) Fatalities due to hurricane Harvey (2017). TU Delft. Dataset. <https://doi.org/10.4121/uuid:95690fdd-b13f-4bf9-a28d-c9b924696a96>
- Paprotny, D. (Dominik); Morales Nápoles, O. (Oswaldo); Jonkman, S. N. (Bas) (2017) HANZE: Historical Analysis of Natural Hazards in Europe - Database documentation. TU Delft. Dataset. <https://doi.org/10.4121/uuid:62d3fc79-6638-480f-8d64-9c8d200bd41c>
- Maaskant, B. (Bob); Jonkman, S.N. (Bas); Boyd, E. (Ezra) (2018) Fatalities due to hurricane Katrina (2005). TU Delft. Dataset. <https://doi.org/10.4121/uuid:cc5a95bb-69af-4174-80c2-61c69e6109af>

10.4 Articles in books

Jonkman SN, van Berchum EC (2022) Flood risk reduction for Galveston Bay: Preliminary design of a coastal barrier, Chapter 19 in: Brody S et al. Coastal flood risk reduction, Elsevier.

- Kothuis B.L.M., Jonkman S.N., Sebastian, A.G. (2016). Delta Planning and Design in the Houston Galveston Bay Region, Texas. In AL Nillesen, BLM Kothuis, VJ Meyer & F. Palmboom (Eds.), *Delta Interventions: Design and Engineering in Urban Water Landscapes* (pp. 82-85). Delft: Delft University Publishers.
- Kolen B., Jonkman S.N. (2015) Summary and recommendations. Chapter 145, pp. 935-938 in: J. Bierens (ed.), *Drowning*, 957 DOI 10.1007/978-3-642-04253-9_148, © Springer-Verlag Berlin Heidelberg 2014
- Jonkman S.N. (2015) Loss of life due to floods: general overview. Pp. 957 – 965 Chapter 148 in: J. Bierens (ed.), *Drowning*, 957 DOI 10.1007/978-3-642-04253-9_148, © Springer-Verlag Berlin Heidelberg 2014
- Jonkman S.N., Gerritsen H., Marchand M. (2012) Coastal storm, Chapter 19, pp.220-231. in: Wisner B., Gaillard J.C., Kelman I. (eds.) *The Routledge Handbook of Hazards and Disaster Risk Reduction*. Routledge, Oxon, England.
- Hoss F, Jonkman S.N., Maaskant B. (2012) A comprehensive assessment of multilayered safety in flood risk management – the Dordrecht case study. In: Chavosian A. et al. (eds.) *Floods from risk to opportunity IAHS Publ.* 357 pp. 57-65.
- Jonkman, S.N. (2012). A dialogue on future flood management. In: In S. Tovivick, A. Kasemsook, J. Bergen & F Moerel (Eds.) *BKK adaptive city 2045 workshop* (pp. 74-77). s.l.: Van Bergen Kolpa Architecten (ISBN 9789746414777).
- Jonkman S.N. (2011) Section 6.4: Loss of life due to floods. In: C. Zevenbergen, A. Cashman, N. Evelpidou, E. Pasche, S. Garvin and R. Ashley, *Urban Flood Management*, CRC Press/Balkema – Taylor & Francis Group, London, 2011. ISBN: 9780415559447.
- Lansen A.J., Jonkman S.N.(2011) Vulnerability of Port Infrastructure for the Port of Rotterdam. Pp.53-74. Section 4 in: Aerts J., Botzen W., Bowman M.J., Ward P.J., Dircke P. *Climate Adaptation and Flood risk in coastal cities*. Eartscan Publishing. In Press.
- ten Brinke W., Jonkman B. (2009) Kustveiligheid en ruimte, pp. 31-47, hoofdstuk 2 in: Marjan Hidding en Maarten van der Vlist (eds.) (2009) *Ruimte en water – planningsperspectieven voor de Nederlandse delta*. SDU Uitgevers, Den Haag, ISBN 9789012131285.
- Jonkman B. (2006) Drowning in floods: an overview of mortality statistics for worldwide floods, Section 10.7 in: Bierens J. (ed.) *Handbook on drowning – prevention, rescue, treatment*, Springer ISBN: 3-540-43973-0
- Van der Torn P., Jonkman B. (2006) Planning of the mass emergency response to floods in the Netherlands, Section 10.11 in: Bierens J. (ed.) *Handbook on drowning – prevention, rescue, treatment*, Springer ISBN: 3-540-43973-0
- Jonkman B., Vrijling H., Stive M., Is Nederland voldoende voorbereid op grootschalige overstromingen?, pp. 77-84 In: Wismans G. (ed.) *Crisisbeheersing belicht*, Drukkerij de Bink, Leiden, ISBN 90-5414-096-8
- Roos A., Jonkman B. (2006) Flood risk assessment in the Netherlands with focus on expected damages and loss of life, Chapter 14 in: Schanze J. et al. (eds.) *Flood risk management: Hazards, vulnerability and mitigation measures*, pp.169-183, Springer publishers.
- Asselman N.E.M., Jonkman S.N. (2007) A method to estimate loss of life caused by floods in The Netherlands, pp. 155-170: in: Begum, S, Stive, MJF & Hall, JW (Eds.). (2007) *Flood risk management in Europe. Innovation in policy and practice (Advances in natural and technological hazards research, 25)*. Berlin: Springer.

10.5 International Conference proceedings (Selected and updated until 2019)

- Kluijver, Maarten; Dols, Chris; Jonkman, S. N.; Mooyart, L. F. (2019): *Advances in the Planning and Conceptual Design of Storm Surge Barriers – Application to the New York Metropolitan Area*. In: Goseberg, Nils; Schlurmann, Torsten (Hg.): *Coastal Structures 2019*. Karlsruhe: Bundesanstalt für Wasserbau. S. 326-336. https://doi.org/10.18451/978-3-939230-64-9_033.
- Godfroy, Maartje; Vuijk, Vincent; van Berchum, Erik; Jonkman, Bas (2019): *Quantifying Wave Attenuation by Nature-based Solutions in the Galveston Bay*. In: Goseberg, Nils; Schlurmann, Torsten (Hg.): *Coastal Structures 2019*. Karlsruhe: Bundesanstalt für Wasserbau. S. 1008-1019. https://doi.org/10.18451/978-3-939230-64-9_101.
- Jonkman, S.N., Maaskant, B., Kolen, B., Zethof, M., Lehman, W.P. & Needham, J.T.(2014). A comparative study on methods for loss of life estimation. Applications to case studies in the United States. In s.n. (Ed.), *Proceeding of the 6th international conference on flood management - ICFM6* (pp. 1-11). s.l.: ABRH.
- Bischiniotis, K., Canning, W. & Jonkman, S.N. (2014). Cost optimal river dike design using probabilistic methods. In s.n. (Ed.), *Proceeding of the 6th international conference on flood management - ICFM6* (pp. 1-12). s.l.: ABRH.
- Tsimopoulou, V., Vrijling, J.K., Kok, M., Jonkman & Stijnen, J.W. (2014). Economic implications of multi-layer safety projects for flood protection. In R.D.J.M. Steenbergen, P.H.A.J.M. van Gelder, S. Miraglia & ACWMT

- Vrouwenvelder (Eds.), *Safety, reliability and risk analysis: beyond the horizon: Proceedings of the European safety and reliability conference, ESREL 2013* (pp. 2538-2588). Leiden: CRC Press/Balkema - Taylor & Francis Group (ISBN 978-1-138-00123-7).
- Lendering, K.T., Jonkman, S.N. & Kok, M. (2014). Effectiveness and reliability analysis of emergency measures for flood prevention. In s.n. (Ed.), *Proceeding of the 6th international conference on flood management - ICFM6* (pp. 1-12). s.l.: ABRH.
- Klerk, W.J. (extern), Kok, M., Bruijn, K.M. de, Jonkman, S.N. & Overloop, PJ (2014). Influence of load interdependencies of flood defences on probabilities and risks at the Bovenrijn/IJssel area, The Netherlands. In s.n. (Ed.), *Proceeding of the 6th international conference on flood management - ICFM6* (pp. 1-13). s.l.: ABRH.
- Lendering, K.T., Jonkman, S.N. & Peters, D.J. (extern) (2013). Risk approach to land reclamation. In R.D.J.M. Steenbergen, P.H.A.J.M. van Gelder, S. Miraglia & ACWM Vrouwenvelder (Eds.), *Safety, reliability and risk analysis: beyond the horizon: Proceedings of the European safety and reliability conference, ESREL 2013* (pp. 2507-2514). Leiden: CRC Press (ISBN 978-1-138-00123-7).
- Lendering, K.T., Jonkman, S.N. & Peters, D.J. (2014). Risk approach to land reclamation: Feasibility of a polder terminal. In R.D.J.M. Steenbergen, P.H.A.J.M. van Gelder, S. Miraglia & A.C.W.M. Vrouwenvelder (Eds.), *Safety, Reliability and Risk Analysis Beyond the Horizon* (pp. 2507-2513). Boca Raton: CRC Press/Balkema - Taylor & Francis Group (ISBN 978-1-138-00123-7).
- Lendering, K.T., Jonkman, S.N. & Peters, D.J. (2013). Risk based design of land reclamation and the feasibility of the polder terminal. In A. Djwantoro & H. Djwantoro (Eds.), *Proceedings of the 4th international conference of the Euro-Asia civil engineering forum, innovations in civil engineering for society and environment EACEF 2013* (pp. O-7-O-14). Surabaya: Institute for Research and Community Service (ISBN 978-979-99765-3-6)
- Mooyaart, L., Jonkman, S., de Vries, P., Van der Toorn, A., & van Ledden, M. (2014). Storm Surge Barrier: Overview and Design Considerations. *Coastal Engineering Proceedings*, 1(34), structures.
- Jonkman S.N., Dupuits E.J.C., Havinga F. (2012) The effects of flood fighting and emergency measures on the reliability of flood defences. *Proceedings of Flood Risk 2012*
- Miller A., Jonkman S.N., van Ledden M. (2012) Risk to life due to flooding in Post-Katrina New Orleans. *Proceedings of Flood Risk 2012*
- Jongejan R.B, Jonkman S.N., Maaskant B. (2009) The potential use of individual and societal risk criteria within the Dutch flood safety policy (part 1): basic principles. In: Bris R., Guedes Soares C., Martorell S. (eds.) *Reliability, risk and safety – theory and applications*, Proc. Of ESREL 2009, Prague, Czech Republic, 7-10 september 2009. pp. 2091-2098.
- Maaskant B., Jonkman S.N., Jongejan R.B, (2009) The potential use of individual and societal risk criteria within the Dutch flood safety policy (part 2): estimation of the individual and societal risk for the dike rings in the Netherlands. In: Bris R., Guedes Soares C., Martorell S. (eds.) *Reliability, risk and safety – theory and applications*, Proc. Of ESREL 2009, Prague, Czech Republic, 7-10 september 2009. pp. 2099-2104.
- Jonkman S.N., Kok M., van Ledden M., Vrijling J.K. (2008) risk-based design of flood defence systems a preliminary analysis for the New Orleans metropolitan area. In: Proc. of the 4th international symposium on flood defence, Toronto, Canada, May 6-8. 2008
- Van Gerven K.A.J., Akkerman G.J., Pool A.D., Jonkman S.N. (2008) Closing breaches in earthen flood defences, technical feasibility of emergency closure concept. In: Proc. of the 4th international symposium on flood defence, Toronto, Canada, May 6-8. 2008
- Jonkman S.N., Maaskant B., Boyd E., Levitan M. (2008) Loss of life caused by the flooding of New Orleans after hurricane Katrina: a preliminary analysis of the relationship between flood characteristics and mortality. In: Proc. of the 4th international symposium on flood defence, Toronto, Canada, May 6-8. 2008
- Jonkman SN, Vrijling, JK (2007). Loss of life caused by floods. In J Schanze (Ed.), *Flood risk management research. From extreme events to citizens involvement* (pp. 83-90). Dresden: Leibniz institute of ecological and regional development.
- Jonkman, SN, Hengel, D van den Vrijling, JK (2007) Simulation of the 1953 storm surge flood in the Netherlands and application of a method to estimate loss of life. In Jane McKee Smith (Ed.), *Proceedings of the 30th international conference coastal engineering 2006* (pp. 1386-1394).
- Klaver, EN, Vrijling, JK, Jonkman, SN, Gelder, PHAJM van, Holthuijsen, LH & Kawai, H (2007) Probabilistic analysis of typhoon induced hydraulic boundary conditions for suonada bay. In Jane McKee Smith (Ed.), *Proceedings of the 30th international conference coastal engineering 2006* (pp. 791-801).
- Jongejan R.B., Jonkman S.N., Vrijling J.K. (2007) An Overview and discussion of methods for risk evaluation. In: Aven & Vinnem (eds.) *Risk, Reliability and societal safety*, Proc. Of ESREL 2007, pp. 1391-1398

- Jonkman S.N., Vrouwenvelder A.C.W.M., Vrijling J.K. (2007) Uncertainties in loss of life estimates. In: Aven & Vinnem (eds.) Risk, Reliability and societal safety, Proc. Of ESREL 2007, pp. 1977-1984
- Jonkman S.N., Vrijling J.K., van Gelder P.H.A.J.M. (2006) A generalized approach for risk quantification and the relationship between individual and societal risk, in: Guedes Soares C., Zio E. (eds.) Safety and Reliability for Managing risk, Proc. Of the ESREL 2006 conference, Estoril, Portugal 18-22 sept 2006, Vol. 2 pp. 1051-1059
- Ter Horst W.L.A., Jonkman S.N., Vrijling J.K. (2006) Probabilistic analysis of safety of dikes during flood waves, in: Guedes Soares C., Zio E. (eds.) Safety and Reliability for Managing risk, Proc. Of the ESREL 2006 conference, Estoril, Portugal 18-22 sept 2006, Vol. 3 pp. 2073-2080
- Jonkman S.N., Kato F., Vrijling J.K. (2005) A comparison of flood risk assessment practices in the Netherlands and Japan, in: J. McKee Smith (ed.) Proc. Of the 29th int. conf on Coastal Engineering ICCE2004, Lisbon, Portugal, pp. 3049-3060
- Jonkman S.N., Kelman I. (2005) Deaths during the 1953 North Sea storm surge, in: Proc. Of Solutions to Coastal Disasters. Wallendorf L., Ewing L., Rogers S., Jones C. (eds.), pp. 749-758, ISBN 0-7844-0774-6
- Jonkman S.N., Kelman I., Bain V. (2005) A physical interpretation of human stability in flowing water, in: Vrijling et al. (eds.) Proceedings of the International Symposium on Stochastic Hydraulics, May 23, 24 2005, Nijmegen, the Netherlands,
- Frieser B., Vrijling J.K., Jonkman S.N. (2005) Probabilistic evacuation decision model for river floods in the Netherlands, in: Vrijling et al. (eds.) Proceedings of the International Symposium on Stochastic Hydraulics, May 23, 24 2005, Nijmegen, the Netherlands
- Jonkman S.N., Vrijling J.K. (2005) A method for the estimation of loss of life caused by floods, in: Kolowrocki K. (ed.) Proc. Of ESREL 2005 Advances in Safety and reliability pp. 981-988
- Wang Yan Yan, Jonkman S.N., Pilarczyk K.W. (2005) Study on flood risk assessment method in the Netherlands and China, in: van Alphen J., van Beek E., Taal M. (eds.) Floods, from defence to management, Proc. Of the 3rd international symposium on flood defence, Nijmegen 25-27 May 2005, ISBN 0415380502
- Jonkman S.N., Asselman N.E.M. (2004) Method for the estimation of loss of life caused by floods, *GIS & RS in Hydrology, Water Resources and Environment, Volume 1, Chen et al. (eds)*
- Jonkman S.N. (2004) A method for the estimation of casualties caused by accidents in tunnels, in: Spitzer C. et al Probabilistic Safety Assessment and Management, Proc. PSAM / ESREL 7, Berlin, pp. 2666-2672
- Jonkman S.N., Lentz A. (2004) Propositions for loss-of-life modelling in risk assessment, paper presented at IFED seminar in Stoos, Switzerland, Dec. 6-8 2004.
- Jonkman S.N., van Gelder P.H.A.J.M., Vrijling J.K. (2003) Flood risk calculated with different risk measures, in: McKee Smith J. (ed.) Proc. Of the 28th International Conference on Coastal Engineering - Solving Coastal Conundrums (ICCE 2002), p. 2360 – 2372, Cardiff, 07 July 2002 - 12 July 2002.
- Jonkman S.N., Vrijling J.K., van Gelder P.H.A.J.M, Arends B. (2003) A framework for the evaluation of tunnel safety, in: Bedford & van Gelder (eds.) Safety and Reliability –proc. Of ESREL 2003, pp. 863 - 872
- Brinkhuis M., Holterman S.R., Kok M., Jonkman S.N. (2003) Cost benefit analysis and flood damage mitigation in the Netherlands, in: Bedford & van Gelder (eds.) Safety and Reliability –Proc. Of ESREL 2003.
- Jonkman S.N., Kok M., Vrijling J.K.(2003) Economic optimisation as a basis for the choice of flood protection strategies in the Netherlands, in Proc. IAHR 2003, Thessaloniki, Greece.
- Jonkman S.N., van Gelder P.H.A.J.M., Vrijling J.K. (2002) An overview of quantitative risk measures and their application for calculation of flood risk, Conference proceedings ESREL 2002, Lyon, France
- Jonkman S.N., van Gelder P.H.A.J.M., Vrijling J.K. (2002) Loss of life models for sea- and river floods. pages 196 - 206, Volume 1, Flood Defence, Wu et al. (eds), 2002 Science Press, New York Ltd., ISBN 1-880132-54-0.

10.6 Reports

- Sebastiaan N. Jonkman, J.R. Moll, G.W.F. Rongen, B. Strijker, J.C. Pol, M. Kok, B. Kolen, S.J.H. Rikkert, J. Schlumberger, M. van Haren, D. Wüthrich (2021) Hoogwater 2021: Feiten en Duiding (in Dutch, 2021 floods report). TU Delft and ENW report
- Antonia Sebastian, K.T. Lendering, B.L.M. Kothuis, A.D. Brand, Sebastiaan N. Jonkman, P.H.A.J.M. van Gelder, Maartje Godfroi, B. Kolen, M. Comes, S.L.M. Lhermitte, Kenny Meesters, B.A. van de Walle, A. Ebrahimi Fard, S. Cunningham, N. Khakzad, V. Nespeca (2017) Hurricane Harvey Report: A fact-finding effort in the direct aftermath of Hurricane Harvey in the Greater Houston Region. Report TU Delft
- S.N. Jonkman, K.T. Lendering, E.C. van Berchum, A. Nillesen, L. Mooyaart, P. de Vries, M. van Ledden, A. Willems, R. Nooij (2015) Coastal spine system - interim design report. TU Delft June 2015

- Jonkman, S.N., van Ledden, M., Lendering, K.T., Mooyaart, L.F., Stoeten, K.J., de Vries, P., Willems, A., de Kort, R. (2013a). Report Galveston Bay: Flood Risk Reduction Barrier. Internal Report. Delft University of Technology, the Netherlands.
- Jonkman S.N., van Ledden M., Lendering K.T., Mooyaart L., Stoeten K.J., de Vries P., Willems A., de Kort R. (2013b) Bolivar Roads Flood Risk Reduction Barrier: Sketch design. Final draft July 19, 2013
- Lendering K.T., van der Toorn A., de Vries P., Mooyaart L.F., van Ledden M., Willems A., Jonkman S.N. (2014) Barge barrier design: phase 3. July 10th, 2014
- van der Toorn A., Mooyaart L., Stoeten K.J., van der Ziel F., Willems A., Jonkman S.N., van Ledden M. (2014) Barge barrier design. Technical report February 7, 2014
- Tsimopoulou, V., Jonkman, S.N., Kolen, B., Alphen, J van & Stroeks, R. (2012). *The great eastern Japan earthquake and tsunami: Facts and implications for flood risk management*. HKV Consultants
- Jonkman S.N., Barames Vardhanabhuti, Blommaart P., de Bruin B., Hardeman B., Kaensap K., van der Meer M., Schweckendiek T., Vrijling J.K. (2012) Post-flood field investigation in the Lower Chao Phraya River Basin, 23 – 27 January 2012 - Preliminary findings of the Thai - Dutch Reconnaissance Team, *Final report*
- Jonkman S.N. (2011) Risk analysis for interconnected critical infrastructure systems - Applications to Flood Hazards and a Case study for the Sherman Island Flood Risk Management System. Technical report. University of California, Berkeley, RESIN project: Resilient and Sustainable Infrastructures, Activity 2.8 Report.
- Hillen M.M., Jonkman S.N., Kanning W., Kok M., Geldenhuys M., Vrijling J.K., Stive M.J.F. (2010) Coastal defence cost estimates - case study of the Netherlands, New Orleans and Vietnam. TU Delft report
- Jonkman S.N. (2009) Safety standards for coastal flood defences - Loss of life estimation for flood events along the Vietnamese coast and inclusion in decision-making. Report Submitted to the sea defence project for Vietnam.
- Hillen M.M., Jonkman S.N., Kanning W., Kok M., Geldenhuys M., Vrijling J.K., Stive M.J.F. (2010) Coastal defence cost estimates - case study of the Netherlands, New Orleans and Vietnam
- Jonkman B., Cappendijk P. (2006) Veiligheid Nederland in Kaart – Inschatting van het aantal slachtoffers ten gevolge van overstroming, dijkringen 7, 14 en 36, DWW rapport 2006-012
- Kok M., Theunissen R., Jonkman S.N., Vrijling J.K. (2006) *Schade door overstroming: ervaringen uit New Orleans*, TU Delft / HKV publication, ISBN-10: 90–77051-00-7
- Vrijling J.K., Vrouwenvelder A.C.W.M., Kok M., Calle E.O.F., Jonkman S.N. (secretaris / rapporteur), Review van de resultaten van de koplopers van “Veiligheid van Nederland in Kaart”, 3 mei 2004.
- Jonkman S.N. (2004) Methode voor de bepaling van het aantal slachtoffers ten gevolge van een grootschalige overstroming, DWW rapport 2004-042
- Jonkman, S.N., Kok, M. (eds.), Syllabus: workshop slachtoffers en evacuatie bij overstromingen 23 mei 2003, DWW-2003072 / Delft Cluster 1-233-1
- Van Mierlo M.C.L.M. Vrouwenvelder A.C.W.M, Calle E.O.F., Vrijling J.K., Jonkman S.N., de Bruijn K.M., Weerts A.H., 2003, Effects of river system behaviour on flood risk, DelftCluster report 1-211-1
- Asselman N.E.M., Jonkman S.N., 2003, Consequences of floods: the development of a method to estimate the loss of life, Delft Cluster report DC1-233-7
- Roos W., Jonkman S.N., Tonneijck M.R., van der Hoek E.E., Heynert K., Asselman N.E.M., Bockarjova M., 2003, Consequences of floods – visits to other countries, Delft Cluster report DC 1-233-11
- Jonkman S.N., 2003, Loss of life caused by worldwide floods: an overview of mortality statistics for worldwide floods, Delft Cluster report DC1-233-6
- Jonkman, S.N., Overstromingsrisico's: een onderzoek naar de toepasbaarheid van risicomaten, TU Delft, maart 2001
- Jonkman S.N. (2001) Inventarisatie van het gebruik van risico analyse binnen de Delft Cluster thema's, rapport in opdracht van Delft cluster (Prof. Blauwendraad, Prof. Vrijling, dr.ir. van Gelder)

10.7 National / professional journals (publications in Dutch, updated until 2016)

- Jonkman S.N., et al. (2016) Bouwen aan de delta: gerealiseerde waterbouwkundige werken – inzendingen prof. J.F. Agemaprijs, TU Delft uitgave.
- Pleijter G., Kolen B., Jonkman B., Bouwman A. (2015) Slimmer evacueren bij overstromingen. Magazine nationale veiligheid en Crisisbeheersing 2015 nr. 3 P. 55-56
- Mechelen, J., Jonkman, S.N., Meurs, G. van & Voorendt, M.Z. (2014). Multifunctionele waterkeringen aantoonbaar veilig. *De Onderbouwing*, (ISSN 1876-2999), 12-13.

- Jonkman, S.N. (2014). Oude waterkennis lekt weg en nieuwe wast aan. *Verkeerskunde: vaktijdschrift over verkeer en vervoer*, (ISSN 0377-8495), 65(4), 26-27.
- Willems, A., Jonkman, S.N., Ledden, M., Mooyaart, L.F., Stoeten, K.J. & Toorn, A. van der (2014). Verkennend ontwerp voor stormvloedkering Houston, Texas. *Civiele Techniek: vakblad voor grond-, weg- en waterbouwkunde en verkeerstechniek*, (ISSN 0925-7128), 68(1-2), 14-16.
- Lendering, K.T., Jonkman, S.N. & Kok, M. (2014). *Effectiveness and reliability analysis of emergency measures for flood prevention*. s.l.: TU Delft / stowa.
- Jonkman, S.N.(2013). *Het water weet de weg*. Inaugurale rede (2013, mei 23). Delft: TU Delft.
- Willems A., Jonkman B., van Ledden M., Mooyaart L., Stoeten K.m van der Toorn A. (2014) Verkennend ontwerp voor stormvloedkering Houston, Texas. *Civiele Techniek*. Jaargang 68, nr ½, Pp.14-16
- Jonkman B. (2013) Veilig leven met water? *Water Governance* 3/2013 p. 37-39.
- Brakenhoff D., Seip H., Jonkman S.N., Driessen T.L.A. (2013) Baan Hollanda Museum beschermd tegen hoogwater. *Land + Water* nr. 3 – Maart 2013, p.22, 23
- Van Ledden M., Jonkman S.N. (2013) Sandy toont kwetsbaarheid noordoostkust VS. *Land + Water* nr. ½ februari 2013, p.24,25
- Jonkman S.N. (2013) Lessen voor Nederland uit buitenlandse overstromingen. *Civiele Techniek* januari 2013, p. 16 / 17
- Jonkman S.N., van der Meer M., Hardeman B. (2012) Waardevolle lessen na overstromingen in Thailand. *Land + Water* nr. 8, augustus 2012, p. 26,27.
- Jonkman S.N., Kanning W., ter Horst W.L.A. (2012) Stand van zaken rond waterveiligheid in Nederland. *H2O* maart 2012, 8-10
- Jonkman B., Rijcken T. Lansen J. (2011) Keteneffecten Japan ook bij overstromingsrampen in Nederland te verwachten. *Magazine nationale veiligheid en crisisbeheersing* mei/juni 2011, p.12/13
- Jonkman B., Jongejan R., Maaskant B., Roos A. (2009) het risico op slachtoffers bij overstromingen. *H2O* 9, pp. 26-28
- Jonkman S.N. (2009) Flood risks and climate change – threats or opportunities for the design of multifunctional flood defences. *BOSS magazine* 35, pp. 16-21
- Bouwer L., ter Horst W., de Jong M., Jonkman B., Kanning W., Kolen B., Loois A., Terpstra T. (2008) Gezocht: jongeren die willen strijden tegen het water (m/v). *Volkscrant* 31 mei 08, p.5
- Jonkman B., Nieuwjaar M. (2008) Flevoland zoekt ruimte met behoud van waterveiligheid. *Land + Water*, nr. 11, november 2008, pp.26-27
- Jongejan R.B., Vrijling J.K., Jonkman S.N. (2008) Bestuurders geboeid door veiligheidsketen. *Openbaar bestuur* Februari 2008, pp. 2,3.
- Evenhuis E., Morselt T., Bernardini P., Jonkman b. (2007) Economische schade na overstromingen wordt onderschat. *H2O* nr. 4, pp. 4-6
- Van Ledden M., Groot Zwaaftink M., de Bruijn K., Jonkman B. (2007) Slim compartimenteren biedt perspectief voor New Orleans, *H2O* nr. 16 pp. 33-36.
- Bruine E., Hesselink A., Jonkman B. (2007) Kansen voor compartimentering in de Randstad. *H2O* 25 / 26, pp.51-53
- Vrijling J.K., Jonkman S.N. (2006) Strijd tegen het water nog niet gestreden, *Openbaar Bestuur* nr. 2, feb. 2006, pp. 7 - 11
- Jonkman S.N., Vrijling J.K. (2006) Overstroming Zuid-Holland leidt tot catastrofe. *Cobouw* Nr. 240, 22 december 2006, p. 5
- Jonkman S.N., Kok M. (2006) Overstroming van Zuid-Holland en mogelijkheden voor rampenbestrijding. *Nieuwsbrief Crisisbeheersing* jaargang 4, Nr. 12 december 2006, pp. 16,17
- Bijdrage aan: Sander Terbruggen (2005) 'Als de dijken bezwijken' *de Ingenieur* pp. 20-27
- Bas Jonkman, Han Vrijling, Marcel Stive (2005) 'is de Nederlandse rampenbestrijding voldoende voorbereid op grootschalige overstromingen?' *Nieuwsbrief Crisisbeheersing* jaargang 3, nr. 4, pp. 10,11; april 2005
- Bas Jonkman, Han Vrijling, Marcel Stive (2005) Angst voor het water, terecht of niet?; *Alert* Nr. 7 / 8, pp. 17-19
- Jonkman S.N., Vrijling J.K., Nederland kan leren van New Orleans, *NRC Handelsblad*, 1-9-2005, p. 9
- ter Horst W., Jonkman S.N. (2005) Probabilistisch model geeft beeld van falen rivierdijken, *Land+ water*, vol. 45 (2005), afl. 10, pag. 12-13 (2)
- H2O*, Interview onderzoeksduo: Bas Jonkman en Nathalie Asselman: "Het ergste van het ergste is niet onvoorstelbaar"p. 6 en 7, nr. 1-2004
- Jonkman B., Asselman N., "Dijkdoorbraak bij Capelle zou meer dan 70.000 slachtoffers eisen", *Land + Water*, Nr. 4, Jaargang 44, 2004, pp. 28, 29.

