

## Publications Dr. Rien Dam – WaterLand Experts

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Recently, from January 2014 till present I work as an independent consultant 'WaterLand Experts' in the triangle government – business – knowledge institutes on water and land related consulting, business development and international cooperation.

Till the end of 2013, I have worked some 10 years as a consultant and technical project expert and have written multiple internal projects proposal, reports and project synthesis and final reports.

Between 2002 and 2007 I worked as a senior project manager for international technical assistance projects in higher education and research (various fields) and produced mostly project documents.

In the period 1989-2005, I worked mostly on research assignments (geosciences, environmental management, climate change in SE Asia) which generated a number of scientific publications.

1. 2014-present: **WaterLand Experts** consulting work (selected references)<sup>1</sup>
2. 2007-2014: Consulting and Technical assistance publications
3. 2002-2007: Capacity Building Higher Education and Research
4. 1992-2005: Peer reviewed scientific publications

### 1. WaterLand Experts consulting work (selected references)

Application document *Adaptation Fund*. Main proposal: **Groundwater resources in Greater Mekong Sub-region: Collaborative management to increase resilience (June 2016)**; A collaboration of Vietnam, Lao PDR, Cambodia, Thailand and Myanmar to increase climate resilience in the greater Mekong Sub-region through improved groundwater management and transboundary cooperation, Annexes.

**Sinking Jakarta, Causes & Remedies**; Main report and Annexes; Deltares, N. Goorden, A. T. Yuherdha, R. Dam; 2016; Annex A: Groundwater flow modelling of the Jakarta basin; Annex B: Subsidence modelling of the Jakarta alluvial fan-delta; Annex C: Subsidence Monitoring Strategy for Jakarta; pp. 39 (main) and pp. 114 (Annexes).

**Teaching Manuals, Report & Reference Guide**; National Integrated Water Resources Management Support Program, Component 4: Technical support to National University of Laos, Faculty of Water Resources in developing IWRM education; Faculty of Water Resources – NUoL, September 2015, pp 105.

**National Groundwater Action Plan (TA Report)**, National Integrated Water Resources Management Support Program (ADB/AusAid), Component 3: Groundwater Assessment; June 2015, pp. 59.

**Sinking cities; An integrated approach towards solutions**, 2014, Deltares, Rien. Dam, Tom Bucx, Gilles Erkens, pp.12

Application document / project document Partners voor Water, internationaal subsidie programma RVO; "Holland Floating Concepts – Indonesia, met de bedrijven Flexbase, DeltaSync, Bartels & Vedder BV

Met WaterOpleidingen (Mw. Agnes Maenhout) ontwikkeling en marketing concept trainings programme 'Dutch Delta Approach'; zie <http://waterlandexperts.nl/dutch-delta-programme/>

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<sup>1</sup> Titles of references in Dutch refer to publications in Dutch, or to Dutch Water Sector relevant reports, etc.

Offerte document voor CREM Consultants, Amsterdam ([www.crem.nl](http://www.crem.nl)) voor de opdracht 'Positioneringsonderzoek Water OS' van RVO en DGIS

Met RoyalHaskoningDHV, Dhr. Frits Dirks en Deltares collega's, technische assistentie voorstel en financieringsaanvraag voor het ADB-UNESCO-IHE kennis programma, voor het project 'Strategy development and Action Plan for the Reduction of Land Subsidence, HCMC, Vietnam'

Rise & Fall, Mekong Delta onderzoeksvoorstel en financieringsaanvraag voor het NWO-DGIS 'Urbanizing Delta's programma, in samenwerking met Universiteit Utrecht en Deltares formuleren van de onderzoeksaanvraag en het opstarten van het onderzoek in Vietnam (2013-2014) (Land subsidence, groundwater management, salinity intrusion)

Onderzoeksvoorstel en financieringsaanvraag voor het NWO-DGIS 'Urbanizing Delta's programma, in samenwerking met Nelen & Schuurmans, VU Amsterdam, Tu Delft (2015: voorstel richt zich op inzet 3Di modeling tools en koppeling met sociaal-economische informatie in GIS)

## 2. 2007-2014: Consulting and Technical assistance publications (selection)

**Sinking Cities, 2013;** an integrated approach towards solutions (concerning land subsidence); Special report Deltares; Tom Bucx and Rien Dam.

[file:///C:/Users/Rien/Downloads/Subsidence%20Sinking%20cities Deltares.pdf](file:///C:/Users/Rien/Downloads/Subsidence%20Sinking%20cities%20Deltares.pdf)

### **Cooperating Country report to CCOP, 2013**

(Coordinating Committee Geoscience Programmes), The Netherlands, 2013, authors Rien Dam & Kees Bons (presented CCOP Annual Session, Sendai, Japan, October 2013;

[www.ccop.or.th](http://www.ccop.or.th)



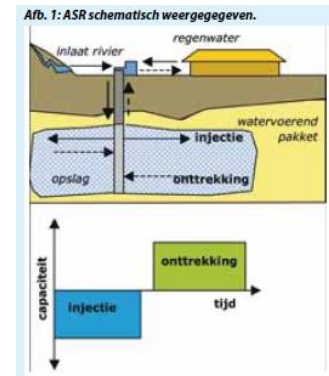
**Introduction text and reference to [www.vietnamfacility.info](http://www.vietnamfacility.info) webtexts,** 2011-2012. (Part of reporting and information dissemination for Vietnam Facility project 2010-2011. All texts by Rien Dam. Website is no longer online.

**Towards a Mekong Delta Plan; Synthesis of Assessment Reports,** 2010-2011. Under the Vietnam – Netherlands Partnership Agreement the Mekong Delta Plan cooperation programme was initiated in 2010. First, a series of water sector information and assessment reports were prepared by mixed teams of Vietnamese-Dutch experts. These elaborate Assessment Reports (available on request) formed the basis for the overview Synthesis document (available in English and Vietnamese). **Document available on request**



**Feasibility Study Aquifer Storage and Recovery (ASR) Jakarta, 2011;** Herman Mondeel, Witteveen + Bos Consultants, and partial report 'Technical Note on the Legal Feasibility of ASR (Author Rien Dam)

Robert Hoogeveen, Herman Mondeel, Rien Dam en Niels Robat; *'Feasibility van Aquifer Storage and Recovery (ASR) in Indonesië'* (in Dutch); H2O Magazine, 2012



Jakarta Coastal Defense Studies, Bridging Phase, 2012: **Activity Report: Land Subsidence and adaptation/mitigation strategies; Rien Dam**, Deltares; 23 pp. and Annexes. Prepared for Partners for Water, Royal Netherlands Embassy Jakarta, Ministry for Infrastructure and Environment of The Netherlands.

**Land Subsidence; Causes, impacts and adaptive measures.** Brochure Deltares, 2012, Tom Bucx and Rien Dam. **Available on request.**

'**Making Aceh safer through Disaster Risk Reduction**', 2008. Deltares brochure on approach for a Aceh DRR project IRMIS (Integrated Risk Mapping and Institutional Strengthening of the Tsunami and Disaster Mitigation Research Center of Syiah Kuala University for the long term sustainable redevelopment of Aceh and Nias). Project document developed in cooperation with TDRMC, BRR-Aceh and UNDP-Indonesia). **Available on request.**



### 3. 2002-2007: Capacity Building Higher Education and Research

**2004-2007: Rijks Universiteit Groningen (RUG), Office for International Cooperation**

**Building a Sustainable ICT Training Capacity in the Public Universities in Uganda**, project document for a 3,4 mEuro, 4-year capacity building project for 4 universities in Uganda by RUG, Hanze Hogeschool and Radboud University.

**Capacity Building for Supervisory Bodies of Higher Education in Ghana**, project document for a 1,9 mEuro, 4-year cooperation project with Ghana for capacity building and training in higher-education policy making and management, by RUG, Erasmus University and Hanze Hogeschool.

**Capacity Building in ICT in Mozambique**, project document for a 4 year, 2 mEuro international cooperation project for capacity building in ICT for the Ministry of Education and 6 higher education institutions in Mozambique, by RUG and Radboud University.

**Strengthening Capacity of Mzumbe University to Enhance Decentralisation and Governance in Tanzania**, project document for a 4 year, 1.6 mEuro international cooperation project for capacity building in Public Administration education for Mzumbe University (by RUG, SNV-Netherlands Development Organisation and IHS, Rotterdam).

**Valorisation of Indonesian renewable resources and particularly *Jatropha curcas* using the BIO-REFINERY concept.** Project document for a 5-year, 1.2 mEuro KNAW funded research project in chemical engineering for RUG, WUR and ITB and BPPT in Indonesia.

**2003-2004:** Contributions to a research programme proposal: "Integrated studies of the Holocene (geological) development of the Mahakam Delta, East Kalimantan, Indonesia" (Overall Coordinator Prof. Dr. S. Kroonenberg, TUDelft; see also under publications)

**2002-2003: TUDelft, Management Centre International Cooperation (CICAT), 2002-Dec. 2003:** Multiple project documents/proposals, internal concepts and evaluation documents. Field surveys in coastal zones of Kerala-Tamil Nadu, South India and Mahakam river delta, Kalimantan, Indonesia

**2001-2002: Nuffic, MHO Programme, 2001-2002:** Linkage programme evaluations, project evaluations, cooperation proposal assessments, concept strategies for programme implementation (MHO, NPT)

#### **1996 - 2000: NITG-TNO & Utrecht University**

**Integrated Coastal Zone Management Vietnam, 2000:** project proposal for DGIS for a technical assistance project by NITG, Witteveen and Bos and DHI (by Rien Dam, H, van Duijne and Jan-Piet Heederik).

**GeoEnvironMan Indonesia, 2000;** Geosciences for Environmental Management and regional planning in the northern coastal zone of Central Java, Indonesia, project proposal for NITG-TNO

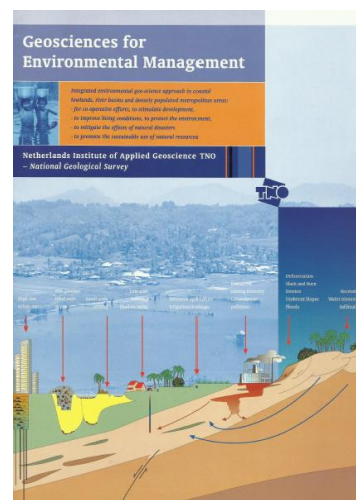
**Geosciences Mozambique, 2000;** project document for Phase III in the cooperation in the field of Earth Sciences between Universidade Eduardo Mondlane, Department of Geology and the Faculty of Earth Sciences, Utrecht University (with Prof. Dr. Lopo Vasconcelos, UEM)

**Geoscience Education Conference (*Building regional networks on local strengths*), 2000,** Mozambique: project document for a one-week international conference on regional cooperation and geosciences education in southern Africa.

**Geosciences for Environmental Management, 2000;** NITG-TNO Brochure, (with Hans van Duijne)

**Laguna de Bay project proposal, 1999;** Sustainable Development of the Laguna de Bay (Manila) Environment, project proposal for DGIS project by Delft Hydraulics, Haskoning Consultants and NITG-TNO

**GEOCES: Geosciences for Coastal and Environmental Studies, 1996;** Project document for cooperation between the Mines and Geosciences Bureau, Manila, Philippines and Rijks Geologische Dienst, Haarlem, The Netherlands.



#### **4. 1992-2005: Peer reviewed scientific publications**

Joep E.A. Storms, R.M. Hoogendoorn, **M.A.C Dam**, A.J.F. Hoitink and S.B. Kroonenberg; Late-Holocene evolution of the Mahakam delta, East Kalimantan, Indonesia. ; Sedimentary Geology 180, pp. 149-166, 2005.

**Dam, Rien A.C.**, van der Kaars, W.A. and Kershaw, P., Eds. (July 2001). Late Quaternary environmental change in the Indonesian Region, Special Issue Palaeogeography, Palaeoclimatology, Palaeoecology, Vol. 171, No. 3-4 with 15 papers.

**Dam, Rien A.C.**, Sander van der Kaars and A. Peter Kershaw; 2001, Introduction: Quaternary environmental change in the Indonesian region. Special Volume Palaeogeography, Palaeoclimatology, Palaeoecology, Vol. 171, No. 3-4, pp. 91-95.

**Dam, Rien A.C.**, Jennie Fluin, Papay Suparan and Sander van der Kaars, 2001, Palaeoenvironmental developments in the Lake Tondano area (N. Sulawesi, Indonesia) since 33,000 years B.P. Special Volume Palaeogeography, Palaeoclimatology, Palaeoecology, Vol. 171, No. 3-4, pp. 147-183.

Sander van der Kaars, Dan Penny, John Tibby, Jennie Fluin, **Rien A.C. Dam** and Papay Suparan, 2001, Palaeoecology, palynology and palaeolimnology of a tropical lowland swamp: Rawa Danau, West-Java, Indonesia, 2001, Special Volume Palaeogeography, Palaeoclimatology, Palaeoecology, Vol. 171, No. 3-4, pp. 185-212.

Papay Suparan, **Rien A.C. Dam**, Sander van der Kaars and Theo E. Wong, 2001, Late Quaternary tropical lowland environments on Halmahera, Indonesia, Special Volume Palaeogeography, Palaeoclimatology, Palaeoecology, Vol. 171, No. 3-4, pp. 229-258.

Miedema, J, Ode, C. and **Dam, M.A.C.** (Eds.), 1998 Perspectives on the Bird's Head Peninsula of Irian Jaya, Indonesia. Proceedings of the conference. Rodopi Publishers, Leiden, The Netherlands

**Dam, M.A.C.** 1998: Cenozoic geological development and environmental settings of the Bird's Head, Irian Jaya. in Miedema, J, Ode, C. and Dam, M.A.C. (Eds.), 1998 Perspectives on the Bird's Head Peninsula of Irian Jaya, Indonesia. Proceedings of an interdisciplinary conference. Rodopi Publishers, Leiden, The Netherlands.

**Dam, M.A.C** & Th. E. Wong, 1998; The environmental and geologic setting of the Bird's Head, Irian Jaya. Modern Quaternary Research in South East Asia, Vol.15: Bird's Head Approaches, 1-28.

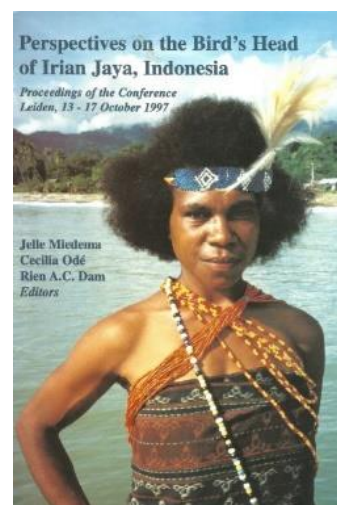
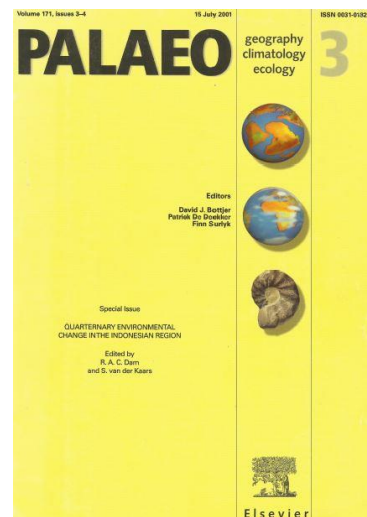
Sriwana, T., M.J. van Bergen, S. Sumarti, J.C.M. de Hoog, B.J.H. van Os, R. Wahyuningsih and **M.A.C.Dam**, 1998, Volcanogenic pollution by acid water discharges along Ciwidey River, West Java (Indonesia), Journal of Geochemical Exploration 62, pp. 161-182.

Van Der Kaars, W.A. and **Dam, M.A.C.**, 1997; Vegetation and climate change in West-Java, Indonesia during the last 135,000 years. Quaternary International, Vol. 37, pp. 67-71.

**Dam, M.A.C.**, Nossin, J.J., Voskuil, R., Suparan. P. and GTL Group, 1996; A chronology for geomorphological developments in the greater Bandung area, West-Java, Indonesia. Journal for South-East Asian Earth Sciences, Vol. 14, No. 1/2, 1996.

Nossin, J.J., Voskuil, R. & **Dam, M.A.C.** 1996; The geomorphological development of the Sunda volcanic complex. ITC Journal 1996-2, pp. 157-165.

Van Der Kaars, W.A. and **Dam, M.A.C.**, 1995; A 135,000-year record of vegetational and climatic change from the Bandung area, West-Java, Indonesia. Palaeogeography, Palaeoclimatology, Palaeoecology 117, pp. 55-72, Elsevier, Amsterdam.



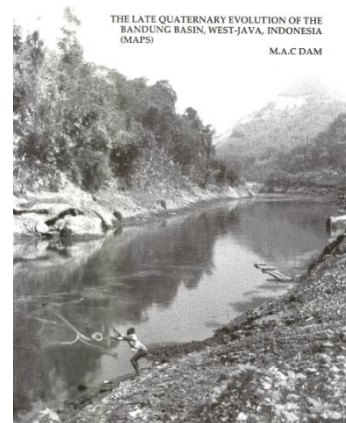


**Dam, M.A.C.**, 1994; The Late Quaternary Evolution of the Bandung Basin, West-Java, Indonesia. PhD Thesis, Vrije Universiteit Amsterdam, pp. 252, with appendices.

**Dam, M.A.C.**, Suhirman, A. and Toloczyki, M., 1993; Geological Map of the Bandung Basin, scale 1:100.000; Environmental Geological Map of the Bandung Basin, Project CTA 108 - Environmental Geology for Land use and Regional Planning, Bandung.

Suparan, P. and **Dam, M.A.C.**, 1992; The Quaternary geological map of the Bandung basin, 1:50.000 (2 sheets). Geological Research and Development Centre, Bandung.

**Dam, M.A.C.** and Suparan, P., 1992; Geology of the Bandung basin; Report with the 1:50.000 Quaternary Geological Map of the Bandung Basin. pp. 77 + viii, Geological Research and Development Centre, Special Publication No. 13, Bandung.



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