

RESEARCH PUBLICATIONS AS RESULT OF WADE ACTIVITY REFERENCES

- **Research papers published in international peer reviewed scientific journals**
- Benito, G., Rohde, R.F., Seely, M., Kulls, C., Dahan, O., Enzel, Y., Todd, S., Botero, B., Grodek, T., Roberts, C. (In preparation) Comparing flood recharge dynamics in two ephemeral rivers in southern Africa: Implications for Integrated Water Resource Management. *Physics and Chemistry of the Earth*.
- Benito, G., Thorndycraft, V.R. (2006) Palaeoflood hydrology: insight into rare events and extreme flood discharges. *La Houille Blanche* 5 (2): 91-96.
- Benjaminsen, T.A., Rohde, R.F., Sjaastad, E., Wisborg, P., Lebert, T. (2005) The politics of land and livestock. *Global knowledge, International cooperation in research and higher education 2*: 54-58.
- Benjaminsen, T.A., Rohde, R.F., Sjaastad, E., Wisborg, P., Lebert, T. (2006) Land Reform, Range Ecology, and Carrying Capacities in Namaqualand, South Africa. *Annals of the Association of American Geographers* 96(3): 224-240.
- Botero, B.A., Heidbüchl, I., Kuells, C., Dahan, O., Benito, G. (In preparation) Estimation of flood water recharge of alluvial aquifers. A simplified methodology with operational aim in ephemeral rivers. *Hydrological Processes*.
- Cousins, B., Hoffman, M.T., Allsopp, N., Rohde, R.F. (2007) A synthesis of social and biological perspectives on sustainable land use in Namaqualand. *Journal of Arid Environments* 70: 834-846.
- Dahan, O., Shani, Y., Enzel, Y., Yechieli, Y., Yakirevich, A. (2007) Direct measurements of floodwater infiltration into shallow alluvial aquifers. *Journal of Hydrology*.
- Dahan, O., Tatarsky, B., Enzel, Y. and Kulls, C. (In press) Insight into the dynamic process of flood water infiltration – Kuiseb River, Namibia. *Groundwater*.
- Duncan, J., Hoffman, T.M., Rohde, R.F. (2005) is the flagship of the richtersveld sinking? New information on the decline of *aloe pillansii*. *Veld and flora* december 2005 issue.
- Duncan, J., Hoffman, M.T., Rohde, R.F., Powell, E., Hendricks, H. (2006) Long term population changes in the Giant Quiver Tree, *Aloe pillansii* in the Richtersveld, South Africa. *Plant Ecology* 185: 73-84.
- Hoffman, M.T., Allsopp, N., Rohde, R.F. (2007) Sustainable land use in Namaqualand, South Africa: Key issues in an interdisciplinary debate. *Journal of Arid Environments* 70: 561-569.
- Hoffman, M.T., Kaleme, P., Rohde, R.F. (submitted) The long-term population dynamics of *Aloe dichotoma* in South Africa as determined by repeat photography: Implications for climate change. *Diversity and Distributions*.
- Hoffman, M.T., O'Farrell, P., Rohde, R.F. (2006) Photographing our changing world. *Veld and Flora* 92 (1): 14-15.
- Hoffman, M.T., Rohde, R.F. (2007) From pastoralism to tourism: the historical impact of changing land use practices in Namaqualand. *Journal of Arid Environments* 70: 641-658.
- Hoffman, M.T., Rohde, R.F., Duncan, J., Kaleme, P. (2009) Repeat Photography, climate change and the long-term population dynamics of tree aloes in Southern Africa. In: Webb, R.H., Boyer, D.E., Turner, R.M. (Eds.) *Repeat photography: methods and applications in the geological and ecological sciences*. Cambridge: CUP.

- Jacoby, Y., Grodek, T., Enzel, Y., Port, N., McDonald, E., Dahan, O. (In press) Determining the magnitudes of twentieth century large floods in an ungauged hyperarid alluvial stream using flood geomorphology and botanical evidence, Nahal Arava, Israel. *Geomorphology*.
- Jacoby, Y., Grodek, T., Enzel, Y., Porat, N., McDonald, E.V., Dahan, O. (In press) Late Holocene upper bounds of flood magnitudes and twentieth century large floods in the ungauged, hyperarid alluvial Nahal Arava, Israel, *Geomorphology*.
- Lebert, T., Rohde, R.F. (2007) Land reform and the new elite: exclusion of the poor from communal land in Namaqualand, South Africa. *Journal of Arid Environments* 70: 818-833.
- Morin, E., Grodek, T., Enzel, Y., Dahan, O., Benito, G., Kulls, C., Jacoby, Y., Van Langenhove, G., Seely, M. (2008) Flood routing and alluvial aquifer recharge along the ephemeral arid Kuiseb River, Namibia. *Journal of hydrology*, Submitted.
- Rohde, R.F. (2007) Making land reform work for those who need it least. *Haramata* 52: 27-28.
- Rohde, R.F., Benito, G., Kuells, C., Hoffman, M.T. (In preparation) Climate and land-use change in Namaqualand: An overview and synthesis with additional evidence based on the palaeohydrology of the Buffels River. *Global Change Biology*.
- Rohde, R.F., Hoffman, M.T. (2008) One hundred years of separation: the historical ecology of a South African 'Coloured' Reserve. *Africa, Journal of the International Africa Institute* 78(2).
- Rohde, R.F., Hoffman, M.T. (2008) The tragedy of enclosure – A case study in Namaqualand's environmental history. *Africa, Journal of the International Africa Institute* 78(2).
- Rohde, R.F., Moleele, N.M., Mphale, M., Allsopp, N., Chanda, R., Hoffman, M.T., Magole, L., Young, E. (2006) Dynamics of grazing policy and practice: environmental and social impacts in three communal areas of Southern Africa. *Journal of Environmental Science and Policy* 9: 302-316.
- Thorndycraft, V., Benito, G., Gregory, K. (2007) The geomorphological and palaeohydrological response of fluvial systems to climatic, human and tectonic controls. *Geomorphology* doi: 10.1016/j.geomorph.2007.02.024.
- Todd, S.W., Hoffman, M.T. (In Prep.) Vegetation patterns and processes of the Buffels River, a typical ephemeral river of Namaqualand, South Africa. *Journal of Vegetation Science*.
- Wisborg, P., Rohde, R.F. (2005) Contested land tenure reform in South Africa: the Namaqualand experience. *Development Southern Africa* 22(3): 207-425; an earlier version of the paper was published in 2004, *PLAAS Occasional Paper* No. 26, Programme for Land and Agrarian Studies, School of Government, University of the Western Cape.

- **Presentation to Workshops and Meetings**

- Allsopp, N., Rohde, R.F. (2006) Why rangeland policy fails the commons of Namaqualand. Paper presented to the *Arid Zone Ecology Forum Annual Meeting*. August 21, 2006, Kamieskroon, South Africa.
- Benito, G. (2007) Archives of past floods: The key to predict future hazards. Presented on the Conference: *Climate Change in the 21st century future prospects of the "health" of our planet and mankind*. Venice, S. Elena, 19 May 2007.

- Benito, G., Bernard, A., Eckstrand, S., Gaisler, T., Neveu, G., Stahr, K., Thorndycraft, V.R. (2005) Twinning Rivers To Share Research. Stand with posters, leaflets and powerpoint presentations promoting the 5 twinning projects funded by the EC VI FP. Presented on the Conference *Communicating European Research*. 14-15th November, 2005, Brussels Exhibition Centre, Belgium.
- Benito, G., Rico, M., Díez Herrero, A., Sánchez-Moya, Y., Sopeña, A., Thorndycraft, V.R. (2005) Palaeoflood hydrology and dam safety in Spain. *The Fluvial System – Past and present dynamics and controls*. 16th-22nd May 2005, Bonn, Germany. pp. 6. Presented on the International Conference: "*The Fluvial System - past and present dynamics and controls*". May 16 - 22, 2005, Bonn, Germany.
- Benito, G., Thorndycraft, V.R. (2006) Paléohydrologie: Application à l'étude des évènements rares et extrêmes de crue. En : Valeurs rares et extrêmes de précipitations et de débits : Pour une meilleure maîtrise des risques. *181^{ème} session du Comité Scientifique et Technique de la Société Hydrotechnique de France*. Lyon, 15-16 mars, 2006. 51-58.
- Benito, G., Thorndycraft, V.R., Botero, A., Dahan, O., Engelbrecht, W., Enzel, Y., Grodek, T., Hoffman, T., Todd, S., Kuells, C., May, H., Ouarda, T., Rhode, R., Seely, M., Matros-Goreses, A., van Langenhove, G., Coetzee, C. (2006) Assessing floodwater recharge of alluvial aquifers in dryland environments. Abstracts book. pp. 21. Presented on the *International Conference on Integrated River Basin Management in Contrasting Climate Zones*. Hohenheim, Germany, December 12-14, 2006.
- Benito, G., Thorndycraft, V.R., Dahan, O., Engelbrecht, W., Enzel, Y., Grodek, T., Hoffman, T., Todd, S., Kuells, C., May, H., Ouarda, T., Rhode, R., Seely, M., Matros-Goreses, A., van Langenhove, G., Coetzee, C. (2006) Palaeoflood hydrology and aquifer recharge in dryland areas. pp. 20. Presented on the Conference: *Present And Past Fluvial Systems: Methods And Applications*. Guarulhos and Maringá (Brazil), August 25 – September 1, 2006.
- Benito, G., Thorndycraft, V.R., Dahan, O., Engelbrecht, W., Enzel, Y., Hoffman, T., Todd, S., Kuells, C., May, H., Ouarda, T., Rohde, R., Seely, M., Matros, A., van Langenhove, G., van Wyk, L. (2005) Floodwater recharge of alluvial aquifers in dryland environments. Presented on the Conference: *Drylands – Linking Landscape Processes to Sedimentary Environments*. 2nd-4th February, 2005, London, UK.
- Benito, G., Thorndycraft, V.R., Rico Herrero, M.T., Sánchez Moya, Y., Sopeña, A., Botero, B.A., Pérez González, A., Dahan, G. (2007) Palaeoflood hydrology and floodwater recharge on the Buffels River (Namaqualand, South Africa). Abstracts with Programme. 1 pp. Presented on the *XVII INQUA Congress*. Cairns, Australia, 28th July – 3rd August, 2007.
- Benito, G., Thorndycraft, V.R., Rico Herrero, M.T., Sánchez Moya, Y., Sopeña, A., Pérez González, A. (2006) Magnitude and frequency of palaeofloods on the Buffels river in relation to the climatic variability (Namaqualand, South Africa). pp. 31. Presented on the Conference: *Present And Past Fluvial Systems: Methods And Applications*. Guarulhos and Maringá (Brazil), August 25 – September 1, 2006.
- Benito, G., Thorndycraft, V.R., Rico Herrero, M.T., Sánchez Moya, Y., Sopeña, A., Pérez González, A. (2007) Magnitude and frequency of Buffels river palaeofloods in relation to climatic variability (Namaqualand, South Africa). Presented on the *4th International Palaeoflood Workshop*. Chania, Crete, June 24th - 30th, 2007.

- Dahan, O. (2007) Vadose Zone Monitoring System as a Tool for Groundwater Protection. *AGU Joint assembly*, Acapulco Mexico.
- Dahan, O., Rimon, Y., Tatarsky, B., Talby, R. (2006) Deep vadose zone monitoring system. In: *TDR 2006: 3rd International Symposium and Workshop on Time Domain Reflectometry for Innovative Soils Applications*. Purdue University, Indiana, USA, proceedings published CD and web page: <https://engineering.purdue.edu/TDR>
- Grodek, T., Enzel, Y., Benito, G., Beukes, H., Porat, N., Jacoby, Y., Dahan, O., Van Langenhove, G., Seely, M. (2007) The largest floods along the canyons of the Kuiseb and Gaub Rivers, Namibia. Presented on the *4th International Palaeoflood Workshop*. Chania, Crete, June 24th - 30th, 2007.
- Grodek, T., Enzel, Y., Benito, G., Porat, N., Jacoby, Y., Dahan, O., Van Langenhove, G., Seely, M. (2007) The contribution of paleoflood hydrology to flood recharge estimations along hyperarid channels, Kuiseb River, Namibia. Abstracts with Programme. 1 pp. Presented on the *XVII INQUA Congress*. Cairns, Australia, 28th July – 3rd August, 2007.
- Hoffman, M.T., Rohde, R.F. (2006) Global change and human impacts on biodiversity in Namaqualand, South Africa. Key Note Paper presented at: *Society for Tropical Ecology Conference*. Kaiserslautern, Germany, February 21-24, 2006.
- Kinyaga, V. (2008) Lessons learnt from the Basin Management Approach in southern Africa. *IWRM-IHP International Conference on IWRM*, theme Society: Lessons from the Implementation in Developing Countries. Cape Town, 10-12 March, 2008.
- Kuells, C. Integrated approach to estimating groundwater availability in alluvial aquifers. Abstract book.
- Price, P. (2007) A Case Study in Community Gardens, Namaqualand, South Africa. Groundwater Recharge in Ephemeral Rivers of Southern Africa: Implications for Water Management. Cape Town, South Africa. Proceedings of *WADE International Workshop*. November 2007.
- Roberts, C., Seely, M., Tuinenburg, O. (2006) Environmental history of the Kuiseb at Gobabeb: Comparison between aerial and ground photos. Poster: *WADE Symposium*. Windhoek, Namibia.
- Roberts, C., Seely, M., Tuinenburg, O. (2006) The advantages and disadvantages of more water or less water being available in the Kuiseb Basin. Poster, *WADE Symposium*. Windhoek, Namibia.
- Rohde, R.F. (2007) Repeat Photography as a multi-disciplinary research tool. *South African Association of Botanists - Annual Meeting*. University of Cape Town, January 15, 2007.
- Rohde, R.F., Hoffman, M.T. (2004) The tragedy of enclosure: environmental change in a communal area of Namaqualand. Proceedings from the conference: *Trees, Rain and Politics in Africa. The dynamics and politics of climatic and environmental change*. Held at St Anthony's College Oxford, 29th September – 1st October 2004. Sponsored by: The British Academy, The British Institute in Eastern Africa, St Anthony's College.
- Rohde, R.F., Hoffman, M.T. (2007) Anthropogenic and climatic impacts on vegetation in relation to the hydrology of the Buffels River during the last 200 years. INTERNATIONAL WORKSHOP: *Groundwater Recharge in Ephemeral Rivers of Southern Africa: Implications for Water Management*. Cape Town, South Africa, 27-28th November, 2007.

- Seely, M., Roberts, C., Tuinenburg, O. (2007) Basin Management Approach in the Kuiseb River: IWRM and comparisons with other southern African ephemeral river basins. Presentation at the *WADE Symposium*. Cape Town, South Africa.
- Shani, Y., Dahan, O., Enzel, Y., Yechieli, Y. (2005) Floodwater percolation and groundwater recharge in arid lands. *GSA Annual Meeting*. Salt Lake City, USA.
- Shani, Y., Dahan, O., Enzel, Y., Yechieli, Y. (2005) Floodwater percolation and groundwater recharge in arid lands. *Israel Geological Society Annual Meeting*. Mashabe Sade, Israel.
- Stanton, R.M., Dahan, O. (2007) Dynamics of infiltration from reservoirs in arid lands. *GSA Annual Meeting*. Denver, USA.
- Talby, R., Dahan, O., Yechieli, Y., Enzel, Y. (2006) Floodwater infiltration - results from a multi-tracer experiment. *Groundwater for Sustainable Development (IGC)*. New Delhi, India, Feb 1-4, 2006.
- Tatarsky, B., Dahan, O., Enzel, Y. (2007) Dynamics of Floodwater Infiltration and Groundwater Recharge Under Ephemeral Channels in Arid Regions. *AGU Joint assembly*. Acapulco Mexico.
- Tatarsky, B., Dahan, O., Enzel, Y. (2007) Floodwater Infiltration and Groundwater Recharge Underneath Ephemeral Channels in Arid Regions. *Israel Geological Society, Annual Meeting*. Neve Zohar, Israel.
- Thorndycraft, V.R., Benito, G. (2005) Climate change and extreme floods in Spain. *BGRG Annual Meeting 2005*. Abstracts volume. Presented on the *BGRG Annual Meeting*. 19th-21st September 2005, University of Southampton, UK.
- Thorndycraft, V., Benito, G., Rico Herrero, M.T., Sánchez Moya, Y., Sopeña, A., Pérez González, A. (2006) The palaeohydrology of the ephemeral Buffels River, Namaqualand, South Africa. Presented on the Conference: *Geomorphology & Earth System Science BGRG International Conference*. 28-30 June 2006, Loughborough University, UK.
- Todd, S.W. (2006) Vegetation structure, diversity and composition of the Buffels River. *Arid Zone Ecology Forum*. Kamieskroon, 21-24 August 2006.
- Todd, S.W. (2007) Vegetation of the Buffels River, South Africa. Groundwater Recharge in Ephemeral Rivers of Southern Africa: Implications for Water Management. Cape Town, South Africa. Proceedings of *WADE International Workshop*. November 2007.
- Tuinenburg, O., Seely, M. (2007) Environmental history of the Kuiseb: effects on vegetation in the last 50 years. Presented at: *WADE Symposium*. Cape Town, South Africa.

- **Books**

- Benito, G., Thorndycraft, V.R. (2006) Paléohydrologie: Application à l'étude des évènements rares et extrêmes de crue. En: Valeurs rares et extrêmes de précipitations et de débits: Pour une meilleure maîtrise des risques. *181^{ème} session du Comité Scientifique et Technique de la Société Hydrotechnique de France*. Lyon, 15-16 mars, 2006. 51-58.
- Benito, G., Thorndycraft, V.R., Rico Herrero, M.T., Sánchez Moya, Y., Sopeña, A., Pérez González, A., (2006). Magnitud y frecuencia de las paleocrecidas en el Río Buffels y su relación con la variabilidad climática (Namaqualand, Sudáfrica). *Geomorfología y Territorio*. Publicaciones Universidad de Santiago de Compostela, 473-482.
- Hoffman, M.T., Rohde, R.F., Duncan, J., Kaleme, P. (2009). Repeat Photography, climate change and the long-term population dynamics of tree aloes in Southern

Africa. In: Webb, R.H., Boyer, D.E., Turner, R.M. (Eds.) *Repeat photography: methods and applications in the geological and ecological sciences*. Cambridge: CUP.

- Lorenzo, A., Dahan, O., Medialdea, A., Benito, G. (2007) Estimación de la recarga en lechos fluviales mediante sondas TDR flexibles durante eventos de avenida (Río Andarax, Almería). En: Giráldez Cervera, J.V., Jiménez Hornero, F.J. (Eds.) *Estudios de la Zona no Saturada del Suelo*, Vol. VIII, ZNS'07, 115-120.
- Lorenzo, A., Medialdea, A., Dahan, O., Benito, G. (2006) Infiltración en lechos fluviales durante eventos de avenida en el río Andarax (provincia de Almería). En: Pérez-Alberti, A., López Bedoya, J. (Eds.) *Geomorfología y Territorio*. Publicaciones Universidad de Santiago de Compostela, 565-574.
- Rohde, R.F. (2009) Written on the surface of the soil: west Highland crofting landscapes during the 20th century. In: Webb, R.H., Boyer, D.E., Turner, R.M. (Eds.) *Repeat photography: methods and applications in the geological and ecological sciences*. Cambridge: CUP.
- Seely, M. (2007) The lifeline of coastal Namibia. *Conservation and the Environment in Namibia*, 2007/8, 44-45.
- Seely, M. (2008) Three approaches to IWRM in southern Africa. *Conservation and the Environment*, Venture Publications, Namibia.

- **Reports**

- Benito, G., Thorndycraft, V.R., Rico Herrero, M.T., Sánchez Moya, Y., Sopena, A., Pérez González, A. (2005) D4 of the WADE project. Floodwater Recharge of Alluvial Aquifers in Dryland Environments. Sixth Framework Programme Priority 1.1.6.3. Global Change And Ecosystems. *GOCE-CT-2003-506680-WADE*.
- Benito, G., Thorndycraft, V.R., Rico Herrero, M.T., Sánchez Moya, Y., Sopena, A., Pérez González, A. (2005) D5 of the WADE project. Floodwater Recharge of Alluvial Aquifers in Dryland Environments. Sixth Framework Programme Priority 1.1.6.3. Global Change And Ecosystems. *GOCE-CT-2003-506680-WADE*.
- Roberts, C., Seely, M., Tuinenburg, O. (2007) *The environmental history of the Kuiseb River*. Unpublished Report: DRFN: Windhoek.
- Rohde, R.F., Benito, G., Kuells, C., Hoffman, M.T., Thorndycraft, V. (2007) *Climate and land-use change in Namaqualand: An overview and synthesis with additional evidence based on the hydrology of the Buffels River*. Unpublished Report. IPC: University of Cape Town.
- Todd, S. *Characterisation of Riparian Ecosystems*. D14 of the WADE project. Floodwater Recharge of Alluvial Aquifers in Dryland Environments. Sixth Framework Programme Priority 1.1.6.3. Global Change And Ecosystems. *GOCE-CT-2003-506680-WADE*.

- **Thesis**

- Shani, Y. (2006) Floodwater percolation and groundwater recharge in Wadi Arava, Israel. M.Sc. Thesis, Ben-Gurion University of the Negev.
- Stanton (to be completed by 2008) Modeling of the hydrodynamic and hydro-chemical systems in the Arava Valley, Israel. M.Sc. Thesis, Ben-Gurion University of the Negev.

- Talbi, R. (2007) Water percolation from stream bed channels in desert environments. M.Sc. Thesis, Ben-Gurion University of the Negev. Jointly supervised with Prof. Eilon Adar.
- Tatarsky, B. (2007) Geomorphic factors controlling groundwater recharge in arid regions. M.Sc. Thesis, Ben-Gurion University of the Negev.
- Casas, M.A. (2008). Interactions between roughness and topography in hydraulic models. PhD Thesis, Polytechnic University, Madrid.
- Lorenzo, A. (in prep.). Groundwater recharge by flooding of the Andarax River, Almeria. Complutense University, Madrid.

- **Divulgative publications**

Roberts, C. (2007) Would having more available water necessarily be a good thing? *Bay News*, Walvis Bay, Namibia