



RESEARCH BIBLIOGRAPHY 2015

Research Articles

Aushiku, N.N.L., Buschbeck, L., Christian, A., Handjaba, M., Haraes, L., Ithindi, J., Johannes, K., Kandjai, A., Ndjomba, E., Chicoine, T., Gottlieb, T., Murphy-Geiss, P., Seely, M.K. & Ulbrich, R. 2015. Changes in Rainfall and Biomass in the Namib Sand Sea dune ecosystem over 52 years. *Journal of the Namibian Scientific Society* 63.

Campbell, H., Fellowes, M.D.E. & Cook, J.M. 2015. Species diversity and dominance-richness relationships for ground and arboreal ant (Hymenoptera: Formicidae) assemblages in Namibian desert, saltpan, and savannah. *Myrmecological News* 21: 37–47.

Childers, J.L. & Eifler, D.A. 2015. Intraspecific behavioural variation in the lacertid lizard *Meroles cuneirostris* (Strauch, 1867) (Sauria: Lacertidae). *African Journal of Herpetology* 64(1): 54–66.

Collins, C. E., Russell, A. P. & Higham, T. E. 2015. Subdigital adhesive pad morphology varies in relation to structural habitat use in the Namib Day Gecko. *Functional Ecology* 29: 66–77. doi:10.1111/1365-2435.12312

Dikow, T. 2015. Review of *Anasillomos* Londt, 1983 with the description of a new species (Insecta: Diptera: Asilidae). *Biodiversity Data Journal* 3: e4652. doi:10.3897/BDJ.3.e4652

Duguay-Tetzlaff, A., Bento, V.A., Göttsche, F.M., Stöckli, R., Martins, J.P.A., Trigo, I., Olesen, F., Bojanowski, J.S., da Camara, C. & Kunz, H. 2015. Meteosat Land Surface Temperature Climate Data Record: Achievable Accuracy and Potential Uncertainties. *Remote Sensing* 7(10): 13139-13156; doi:10.3390/rs71013139

Frossard, A., Ramond, J.-B., Seely, M. & Cowan, D. 2015. Water regime history drives responses of soil Namib Desert microbial communities to wetting events. *Scientific Reports* 5: 12263.

Gombeer, S., Ramond, J., Eckardt, F., Seely, M. & Cowan, D. 2015. The influence of surface soil physicochemistry on the edaphic bacterial communities in contrasting terrain types of the Central Namib Desert. *Geobiology* 13, 3: 12.

Grohmann, C., Henze, M.J., Nørgaard, T., Gorb, S.N. 2015. Two functional types of attachment pads on a single foot in the Namibia bush cricket *Acanthoproctus diadematus* (Orthoptera: Tettigoniidae). *Proceedings of the Royal Society B* 282: 20142976.

Helmschrot, J., Muche, G., Hillmann, T., Kanyanga, J., Butale, M., Nascimento, D., Kruger, S., Strohbach, B., Seely, M., Ribeiro, C., De Clercq, W., Kenanbatho, P., Josenhans, K. & Jürgens, N. 2015. SASSCAL WeatherNet to support regional weather monitoring and climate-related research in Southern Africa. *Hydrological Sciences and Water Security: Past, Present and Future* 366: 170–201

Higham, T.E. 2015. Bolting, bouldering, and burrowing: functional morphology and biomechanics of pedal specialisations in desert-dwelling lizards. In: Bininda-Emonds O.R.P., Powell G.L., Jamniczky H.A., Bauer A.M. & Theodor J. (eds.) (2015). *All Animals are Interesting: A Festschrift in Honour of Anthony P. Russell*. BIS Verlag, Oldenburg, Germany.

Higham, T.E., Birn-Jeffery, A.V., Collins, C.E., Darrin Hulsey, C. & Russell, A.P. 2015. Adaptive simplification and the evolution of gecko locomotion: Morphological and biomechanical consequences of losing adhesion. *PNAS* 112 (3): 809–814.

Huld, T. & Gracia Amillo, A.M. 2015. Estimating PV Module Performance over Large Geographical Regions: The Role of Irradiance, Air Temperature, Wind Speed and Solar Spectrum. *Energies* 8(6): 5159-5181; doi:10.3390/en8065159

Jacobson, K., Van Diepeningen, A., Evans, S., Fritts, R., Gemmel, P., Marsho, C., Seely, M., Wenndt, A., Yang, X. & Jacobson, P. 2015. Non-rainfall moisture activates fungal decomposition of surface litter in the Namib Sand Sea. *PLOS ONE* 10,5:22.

Kaspar, F., Helmschrot, J., Mhanda, A., Butale, M., de Clercq, W., Kanyanga, J.K., Neto, F.O.S., Kruger, S., Castro Matsheka, M., Muche, G., Hillmann, T., Josenhans, K., Posada, R., Riede, J., Seely, M., Ribeiro, C., Kenanbatho, P., Vogt, R. & Jürgens, N. 2015. The SASSCAL contribution to climate observation, climate data management and data rescue in Southern Africa. *Advances in Science & Research* 12:171–177.

Makhalanyane, T.P., Valverde, A., Gunnigle, E., Frossard, A., Ramond, J.B. & Cowan, D.A. 2015. Microbial ecology of hot desert edaphic systems. *FEMS Microbiology Reviews* 39 (2): 203–221; doi.org/10.1093/femsre/fuu011

Marks, T.P. 2015. Middle and Later Stone Age Land Use Systems in desert environments: insights from the Namibian surface record. *South African Archaeological Bulletin* 70 (202): 180–192.

Morgan, E., Lavrič, J., Seifert, T., Chicoine, T., Day, A., Gomez, J., Logan, R., Sack, J., Shuuya, T., Uushona, E., Vincent, K., Schultz, U., Brunke, E., Labuschagne, C., Thompson, R., Schmidt, S., Manning, A. & Heimann, M. 2015. Continuous measurements of greenhouse gases and atmospheric oxygen at the Namib Desert Atmospheric Observatory. *Atmospheric Measurement Techniques* 8: 6–9.

- Murray, I.W. & Irish., E. 2015. *Bitis caudalis* (Horned Adder). Fog water harvesting. *Herpetological Review* 46: 2.
- Murray, I.W., Fuller, A., Lease, H.M., Mitchell, D., Wolf, B.O. & Hetem, R. 2015. Low field metabolic rates for geckos of the genus *Rhoptropus* may not be surprising. *Journal of Arid Environments* 113: 35–42.
- Murray, I.W., Fuller, A., Lease, H.M., Mitchell, D., Hetem, R. 2015. Ecological niche separation of two sympatric insectivorous lizard species in the Namib Desert. *Journal of Arid Environments* 124: 225–232.
- Ramond, J.-B., Makhalanyane, T.P., Tuffin, M.I. & Cowan, D.A. 2015. Normalization of environmental metagenomic DNA enhances the discovery of under-represented microbial community members. *Letters in Applied Microbiology* 60: 359–366.
- Ronca, S., Ramond, J.-B., Jones, B.E., Seely, M. & Cowan, D. 2015. Namib Desert dune/interdune transects exhibit habitat-specific edaphic bacterial communities. *Frontiers in Microbiology* 6: 845.
- Valverde, A., Makhalanyane, T., Seely, M. & Cowan, D. 2015. Cyanobacteria drive community composition and functionality in rock-soil interface communities. *Molecular Ecology* 24, 4: 10.

Theses

- Chandler, C.K. 2015. *Superimposed and Auxiliary Dunes of the Northern Namib Sand Sea: a Ground-Penetrating Radar Study*. M.S. Thesis (Geological Sciences), Brigham Young University.
- Cloete, M. 2015. *Microbial Diversity of the Namib Desert Salt Pans*. M.Sc. Thesis (Biotechnology), University of the Western Cape.
- Morgan, E.J. 2015. *Continuous Measurements of Greenhouse Gases and Atmospheric Oxygen in the Namib Desert*. Dr.rer. Nat. Dissertation (Mathematics and Natural Sciences), Kiel University.
- Nauyoma, L.T. 2015. *Environmental factors associated with Jutta dinteria albata(L. Bolus) L. Bolus, its population structure and an assessment of its performance in trial planting at Sendelingsdrif Mine*. M.Sc. Thesis, University of Namibia, Windhoek, May 2015. 107pp
- Shekunyenge, A.S. 2015. *Study of physical and chemical soil properties and potential of post-mining substrates as a habitat for plants during restoration at Sendelingsdrif Mine*. M.Sc. Thesis, University of Namibia, Windhoek, May 2015. 146pp
- Williams, D.E. 2015. *Design, Construction and Calibration of an Electronic Pressure Plate Type Wind Speed Indicator*. B.Sc (Engineering): Namibia University of Science & Technology, Windhoek, January 2015. 39pp