

CV

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Publications

Articles

PEER REVIEWED JOURNAL ARTICLES

Steyn, A.S. & Walker, S., 2010. Die afskaling van globale sirkulasiemodelvoorspellings na daaglikse reënval oor die Bo-Olifantsrivieropvanggebied. South African Journal of Science and Technology 29(3): 163-164.

PEER REVIEWED CONFERENCE PAPERS

Odendaal, C. & Steyn, A.S., 2012. Statistical comparison between two air temperature and wind speed datasets. Proceedings of the 28th annual conference of the South African Society for Atmospheric Sciences, 26 - 27 September, Cape Town, South Africa. p 19-20.

Snyman, P.E. & Steyn, A.S. 2011. Monitoring the 2D Bloemfontein urban heat island. Proceedings of the 27th annual conference of the South African Society for Atmospheric Sciences, 22 - 23 September, Hartbeespoort, South Africa. p 61-62.

Odendaal, C. & Steyn, A.S. 2010. Accounting for Coriolis force in atmospheric motion on various planetary bodies. Proceedings of the 26th annual conference of the South African Society for Atmospheric Sciences, 20 - 22 September, Gariep Dam, South Africa. p 84-85.

Steyn, A.S., Walker, S. & Engelbrecht, F.A., 2009. Downscaling of climate change projections to daily rainfall over the upper Olifants River catchment. Proceedings of the 25th annual conference of

the South African Society for Atmospheric Sciences, 9 - 10 September 2009, Tulbach, South Africa. p 46-47.

Modules currently presenting

UNDERGRADUATE

GKG124: Introduction to Soil, Crop and Climate Sciences (33%)

LWL154: Physical and mechanised principles in Agriculture (50%)

LWR214: Introduction to Agrometeorology (85%)

LWR314: Influence of climate on agricultural practices (30%)

LWR324: Climate change and variability (70%)

LWR434: Physical and dynamic meteorology

LWR444: Synoptic meteorology

POST GRADUATE

LWR602: Data analysis for weather and climate research

LWR603: Specialised instrumentation (33%)

LWR606: Weather analysis and forecasting : Later changed to: Programming principles in climatology

DIM608: Management of natural and human-made disasters (50%)

GKD708: Land Evaluation (25%)

MOB707: Resources and processes (20%)

(Percentages in brackets indicate proportional involvement in shared modules)

Community Service

Geoclub

In 2011 I initiated a Climate Club community project with St. Michaels Secondary School in Bloemfontein which expanded during the past years. Now referred to as the Geoclub, schools throughout the Mangaung district are invited to put forward topics with which they have difficulties to be addressed at the next quarterly meeting. The aims of this interaction are to further the education of grade 10-12 learners in Geography and to help their teachers with explaining key concepts and additional learning material. Since involving more schools, the number of attendees at these quarterly meetings grew to about 100.

Agromet Short Courses

In collaboration with FAO we have been contracted to train agricultural extension officers at selected sites in Mpumalanga and KwaZulu-Natal. The main objective of the training was to focus on climate-related influences on agriculture and how to use crop and climate information to improve on-farm decision making.