

GOYDER INSTITUTE MODEL METADATA TEMPLATE

METADATA REQUIRED	DETAILS
Model Name and version	An implementation of a multivariate daily weather generator.
Date of lodgement of Metadata Template. Name of Metadata Provider	18 November 2014 Dr Steve Charles, Steve.Charles@csiro.au CSIRO Land and Water Flagship Water Resource Management Program Water Resources Assessment & Prediction Group
Goyder Institute Project Number and Name	GOYDER INSTITUTE FOR WATER RESEARCH Project No. C.1.1 Development of an agreed set of climate change projections for South Australia
Project Team	Project Leader Professor Simon Beecham, simon.beecham@unisa.edu.au CSIRO Task 3 Team Task 3 Leader Dr Steve Charles, Steve.Charles@csiro.au Project Team CSIRO Members: Steve Charles, Steve.Charles@csiro.au Guobin Fu, Guobin.Fu@csiro.au Freddie Mpelasoka, Freddie.Mpelasoka@csiro.au
Creator/Developer	Dr Steve Charles, Steve.Charles@csiro.au
Owner/Contact Person and contact details	Dr Steve Charles, Steve.Charles@csiro.au
Model Location	<i>Where is the model archived?</i> CSIRO Data Access Portal (DAP) http://dx.doi.org/10.4225/08/552C4F24D03F2 <i>Is there a version of the model in active further development?</i> No <i>Where is this active version located?</i> Not applicable

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IP or other permission requirements	<p>***** REFER TO GOYDER INSTITUTE FOR WATER RESEARCH AGREEMENT *****</p> <p><i>Are there any IP issues associated with the model and/or the dependencies that future users need to be aware of?</i></p> <p>IP held by CSIRO</p>
Licences associated with model and/or dependencies	<p>***** REFER TO GOYDER INSTITUTE FOR WATER RESEARCH AGREEMENT *****</p> <p><i>Are there any licenses associated with the model and/or the dependencies that future users need to be aware of?</i></p> <p>CSIRO Open Source Software Licence (Based on MIT/BSD Open Source Licence)</p>
Confidentiality agreements associated with model and/or dependencies	<p><i>Are there any confidentiality agreements associated with the model and/or the dependencies that future users need to be aware of?</i> No</p>
Brief outline of model	Daily multi-site weather generator for non-rainfall variables
Area/region covered	Station networks for South Australian Natural Resource Management (SA NRM) Regions.
Platform and language and version	R programming language on multiple platforms
Dependencies upon: <ul style="list-style-type: none"> i) other models and/or platforms (including version) and location ii) essential data and data sources and location 	Not platform or data dependent.

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How was model used	<ul style="list-style-type: none"> ○ <i>Parameterisation/Validation (if applicable; include time period of calibration/simulation)</i> Summarised in Goyder Institute Technical Report 15/1 Available at http://goyderinstitute.org/ ○ <i>Scenarios and outputs from various runs (indicate where these are stored)</i> The model was applied to downscaled climate projections from 15 GCMs (global-scale models) under future medium- and high-emission scenarios. Summarised in Goyder Institute Technical Report 15/1 Available at: http://goyderinstitute.org/ Data are stored in the CSIRO Data Access Portal http://dx.doi.org/10.4225/08/54644D99C091A ○ <i>Assumptions behind model (indicate where these are stored)</i> Summarised in Goyder Institute Technical Report 15/1 Available at http://goyderinstitute.org/ ○ <i>Limitations of model</i> Summarised in Goyder Institute Technical Report 15/1 Available at http://goyderinstitute.org/ ○ <i>Peer review process (if applicable)</i> Reviewed by two external reviewers ○ <i>Extensibility of model (can it be run for different time periods)</i> The model can be run for any time period for which input data is available.
Specificity of data	<p><i>Was data sourced from local field sites or literature</i></p> <p>Calibration used station weather data from SILO Patched Point Dataset https://www.longpaddock.qld.gov.au/silo/ppd/index.php</p>

METADATA REQUIRED	DETAILS
Datasets/data products produced	<p><i>Include details of where datasets/products are located and contact details in the storage location</i></p> <p>Datasets are summarised in Goyder Institute Technical Report 15/1 Data are stored in the CSIRO Data Access Portal available at</p> <p>http://dx.doi.org/10.4225/08/54644D99C091A</p> <p>Details on library entry for the data are given here: http://researchdata.ands.org.au/goyder-institute-water-south-australia/472254</p>
Other Information	
Publications (papers and technical reports)	<p>Charles, S.P. and Fu, G. 2015, <i>Statistically Downscaled Projections for South Australia</i>, Goyder Institute for Water Research Technical Report Series No. 15/1, Adelaide, South Australia. Available at http://goyderinstitute.org/</p>
Collaborations and acknowledgements	
Keywords	Climate change, weather generator, GCM, downscaling, stochastic, South Australian regions