

## **GOYDER INSTITUTE FOR WATER RESEARCH MODEL METADATA TEMPLATE**

METADATA REQUIRED	DETAILS
Model Name and version	Drain M (South-East South Australia) Source Model
Date of lodgement of	April 2015
Metadata Template.	
Name of Metadata Provider	Matt Gibbs, matthew.gibbs@adelaide.edu.au
Goyder Institute Project	GOYDER INSTITUTE FOR WATER RESEARCH Project No. E.2.4
Number and Name	Improved Modelling of the Catchments and Drainage Network in the
	Upper South East for Management Outcomes
Project Team	Matt Gibbs, matthew.gibbs@adelaide.edu.au
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Creater/Developer	Above project team
Creator/Developer Owner/Contact Person and	Above project team  Matt Gibbs, matthew.gibbs@adelaide.edu.au
contact details	
contact details	School of Civil, Environmental and Mining Engineering
	The University of Adelaide
	North Terrace, Adelaide, 5005
Model Location	The model has been stored on the network at the Science, Monitoring and
	Knowledge Unit,
	Department of Environment Water and Natural Resources (DEWNR)
	P:\Projects_SW\South_East\Goyder Institute\Project E.2.4 Drain M\
	Contact: Matt Gibbs, matt.gibbs@sa.gov.au
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	Is there a version of the model in active further development? NO
	Where is this active version located?
	DEWNR Network listed above.
IP or other permission	**REFER TO GOYDER INSTITUTE FOR WATER RESEARCH AGREEMENT **
requirements	There are no specific IP or other permission requirements for future users.
Licences associated with	****** REFER TO GOYDER INSTITUTE FOR WATER RESEARCH
model and/or dependencies	AGREEMENT *****
	Data requirements:
	SILO Climate data – Available (paid) from Department of Science,
	Information Technology, Innovation and the Arts, QLD
	https://www.longpaddock.qld.gov.au/silo/
	Model is developed in eWater Source. There are both paid and freely
	available versions available:
	http://ewater.com.au/products/ewater-source/













METADATA REQUIRED	DETAILS
Confidentiality agreements	Are there any confidentiality agreements associated with the model and/or the
associated with model	dependencies that future users need to be aware of?
and/or dependencies	NO
Brief outline of model	The model is a link – node river model of the Drain M system, including Bool
	Lagoon and Lake George.
Area/region covered	Drain M, South East of South Australia
Platform and language and	Tested with Source version 3.7.1
version	
Dependencies upon:	Tested with Source version 3.7.1
i) other models and/or	Climate data would need to be sourced
platforms (including	https://www.longpaddock.qld.gov.au/silo/
version) and location	
ii) essential data and	Further details of data requirements are outlined above and in Goyder
data sources and	Institute Technical Report 15/34 available at
location	http://goyderinstitute.org/index.php?id=8













METADATA REQUIRED	DETAILS
How was model used	The model was used to consider different operating regimes for Bool Lagoon and the REFLOWS floodway in South-East South Australia. The effect of water diversions of different volumes on the water levels and salinity concentrations in Lake George were assessed.
	<ul> <li>Parameterisation/Validation (if applicable; provide a brief summary and include time period of calibration/simulation)</li> <li>See report, model parameterisation and limited validation undertaken to the period of data available (depending on the site, typically 1980s to 2011)</li> </ul>
	<ul> <li>Scenarios and outputs from various runs (provide a brief summary and indicate where these are stored)</li> <li>The model considered different scenarios for water diversions in Drain M.</li> <li>Details are reported in Goyder Institute Technical Report 15/34.</li> </ul>
	<ul> <li>Assumptions behind model (provide a brief summary and indicate where these are stored)</li> </ul>
	Model assumptions are outlined in the report
	<ul> <li>Limitations of model(provide a brief summary)</li> <li>Model limitations are outlined in the report</li> </ul>
	Peer review process (if applicable) Reviewed by two external reviewers.
	<ul> <li>Extensibility of model (can it be run for different time periods)</li> <li>The model has been designed to be able to be run for new time periods with limited effort assuming some technical knowledge.         Further details of all above points are summarised in Goyder Institute Technical Report 15/xx available at <a href="http://goyderinstitute.org/index.php?id=8">http://goyderinstitute.org/index.php?id=8</a></li> </ul>
Specificity of data	Was data sourced from local field sites or literature Climate data was sourced <a href="https://www.longpaddock.qld.gov.au/silo/">https://www.longpaddock.qld.gov.au/silo/</a>
	Further information about datasets are summarised in Goyder Institute Technical Report 15/34.
Datasets/data products produced	Include details of where datasets/products are located and contact details in the storage location
	See model location section
Other Information	













METADATA REQUIRED	DETAILS
Publications (papers and technical reports)	Gibbs, M.S., Humphrey, G.B., Maier, H.R., Dandy, G.C., 2015, Improved Modelling of the Catchments and Drainage Network in the Upper South East for Management Outcomes. Project E.2.4 Final Report, Goyder Institute for Water Research Technical Report Series No. 15/34, Adelaide, South Australia
Collaborations and acknowledgements	Discussions with South East Water Conservation and Drainage Board staff have been essential to the development of these models.
Keywords	South East, hydrology, Source, Drain M









