

Central Slopes Systematic Review

Process undertaken to capture Endnote
database references for Aquatic database.

July 2015

UNIVERSITY OF CANBERRA

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Aquatic database

Final: July 2015

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1 Search terms

A standard method was applied to the literature search using a combination of an aquatic search topic (such as macroinvertebrates, fish, waterbirds etc...) and location (either a river or a region). The standard search terms are given in Table 1. Each search topic was combined with each river and then each region to form a search term. The Boolean operator "AND" was consistently used between search topics and rivers, and search topics and regions, to form a search term (for example, "macroinvertebrates AND Barwon River"). The relevant state was added to the search term for rivers or regions with ambiguous locations (see Table 1) e.g. "fish" AND "Peel River" AND "NSW" for fish, waterbird and riparian searches only.

Some additional search terms were conducted. These additional search term combinations are given in Table 2.

2 Databases searched

The standard aquatic search terms were used in three databases. Databases searched (in order) for each of the standard search terms included Google Scholar, Web of Science (Web of Knowledge) and Scopus. A fourth database, Science Direct, was only searched using the aquatic search topic of "fish" and river and region locations. The use of Science Direct was discontinued thereafter as it was deemed to supply a large amount of irrelevant material.

Details for each search term searched for were recorded in an excel database (Figure 1). These details included search term, database searched, date searched, number of records returned (with the exception of Google Scholar as numbers returned were in excess often in excess of 10,000) and useful number of records (Figure 1). Useful number was defined as the number of new and relevant records obtained from each additional search.

A separate search for theses was conducted using Trove. In Trove we used the advanced search tool to limit the search to theses only. The search terms and results for the Trove search are given in Table 3.

3 Building the Endnote library

References were searched for using Mozilla Firefox browser and captured in endnote using the "export citation" link where available (Figure 2). Pdf or Microsoft Word copies of all references available through active links were saved (including the URLs) (Figure 3) and these references were noted as accessible in the Endnote database. If references were available but could not be accessed through the university system they were noted as available but inaccessible. If references were found but were completely unavailable (such as through inactive links) they were noted as unavailable in the database.

References were determined relevant through reading the title, abstract and method (study area) details. Relevant references were then captured under broad topic headings. These headings were aquatic vegetation (in-stream), riparian vegetation, frogs, turtles, macroinvertebrates, fish, waterbirds and metabolism. References were then grouped under these headings according to the search engine they were found in for the first time (Figure 2). A separate folder of “ecological response modelling” references was also maintained which included references that contained ecological models relevant to the Central Slopes region as well as a folder of “trove search of theses” which included any additional references found in the thesis search conducted using Trove. A final folder of “general” references was also kept and was used for references applicable to all of the Murray Darling Basin, including, but not specific to, the Central Slopes region.

Table 1. Aquatic search topics and locations (rivers and regions) used to form aquatic search terms.

Aquatic search topics	Rivers	Regions
Macroinvertebrates	Balonne River	Border Rivers
Frogs	Barwon River	Brigalow Belt South
Turtles	Birrie River	Central Slopes
Aquatic vegetation	Bogan River AND NSW	Darling Downs
Riparian vegetation	Bokhara River AND NSW	Darling AND Riverine
Metabolism	Castlereagh River	Great Dividing Range
Fish	Condamine River	Liverpool Plains
Waterbirds	Cudgegong River	Liverpool Range
	Culgoa River	Moonbi Range
	Darling River	Nandewar Bioregion
	Dumaresq River	New England Range
	Gil Creek	New England Tablelands
	Gwydir River	North West(ern) Slopes
	Macdonald River	Northern Tablelands
	Macintyre Brook	South West Queensland
	Macintyre River	Southern Downs
	Macquarie River	Warrumbungle Range
	Manilla River AND NSW	
	Maranoa River	
	Mehi River	
	Mooki River	

	Moonie River	
	Murray-Darling River	
	Namoi River	
	Narran River	
	Nebine Creek	
	Paroo River	
	Peel River AND NSW	
	Severn River AND NSW	
	Weir River AND NSW	

Table 2 Additional search terms (subject and locations combinations)

Search topics (additional) / combination search terms	Databases searched
Macroinvertebrates Response of macroinvertebrates Darling river Response of macroinvertebrates Balonne River Macroinvertebrate Narran River Response of macroinvertebrates Barwon River Response of macroinvertebrates Paroo River Response of macroinvertebrates Warrego River Response of macroinvertebrates Castlereagh River Response of macroinvertebrates Macquarie River Response of macroinvertebrates Namoi River Response of macroinvertebrates Gwydir River Response of macroinvertebrates Mehi River Response of macroinvertebrates Condamine River	Google Scholar Web of Science Scopus
Turtles turtles in the Murray-Darling Basin eastern long-necked turtle Chelodina longicollis Broad shelled turtle Chelodina expansa Western saw-shelled turtle Murray river turtle Emydura macquarii eastern saw-shelled turtle Myechelys latisternum turtles in central NSW turtles in central Queensland	Google Scholar Web of Science Scopus
Frogs Sloanes froglet Crinia sloanei	Google Scholar

Banjo frog <i>Limnodynastes inferioris</i> tree frog <i>Litoria caerulea</i> rocky river frog <i>Litoria Lesuerii</i> spotted grass frog <i>Limnodynastes tasmaniensis</i> broad palmed frog <i>Litoria latopalmata</i>	Web of Science Scopus
Fish Australian smelt AND Macquarie river Australian smelt AND Maranoa river Australian smelt AND Balonne river Australian smelt AND Culgoa river Australian smelt AND Birrie river Australian smelt AND Nebine river Australian smelt AND Bokhara river Australian smelt AND Darling river Australian smelt AND Bogan river Murray jollytail Bony herring Dwarf flathead gudgeon (also included flathead gudgeon) Murray-Darling rainbow fish Olive Perchlet Unspeckled hardyhead Spangled perch Desert rainbowfish southern purple spotted gudgeon Hyrtl's and Rendahl's tandan southern pygmy perch shorthead lamprey Australian smelt Freshwater catfish Golden Perch gudgeon macquarie perch mountain galaxias murray cod river blackfish silver perch Murray-Darling AND Common carp Murray Darling AND Gambusia Murray Darling AND Goldfish Murray Darling AND rainbow trout Murray Darling AND brown trout Murray Darling AND redfin “native fish” AND (all rivers listed in Table 1) instead of just “fish”	Google Scholar
Aquatic Plants (riparian and aquatic vegetation) Aquatic plants Darling river Aquatic plants Condamine-Balonne Aquatic plants NSW	Google Scholar Web of Science Scopus

Aquatic plants central QLD	
Metabolism	Google Scholar Web of Science Scopus
Metabolism in streams Great Dividing Range	
Metabolism in streams Northern Tablelands	
Metabolism in streams south-west QLD	
Metabolism in streams New England Tablelands	
Metabolism in streams Southern Downs	
Metabolism in streams Darling	
Metabolism in streams Condamine-Balonne	
Metabolism in streams Murray-Darling	
Breakdown of organic matter in streams Australia	
Foodwebs rivers Australia	
Carbon cycling in Australian rivers	
Energy flows in Australian rivers	
Autochthonous and allochthonous rivers Australia	
Nutrient cycling in streams	
Benthic metabolism	
Ecosystem production rivers australia	
Primary production rivers australia	
Stable isotope analysis australia streams	
Metabolic pathways rivers australia	
Chemical transformation rivers Australia	
Organic cycling	
Heavy metals in streams rivers	
Phosphorus nitrogen cycling	

Table 3. Search terms and results for the Trove Thesis search

Keywords used	Subject words	Relevant returned
Macroinvertebrate		0
Riparian vegetation		1
Frog	river	1
Turtle	river	1
Waterbird	river, wetland	2
Instream vegetation		0
Fish	river	1
Freshwater fish	Murray-Darling	2
Metabolism	river	0

Search terms	Database	Date searched google scholar	Google scholar number returned	google scholar useful number	web of science useful number	web of science number returned	date searched web of knowledge
Response of macroinvertebrates Darling	Google Scholar, Web of Knowledge, Scopus	11/02/2014		0	0	0	
Response of macroinvertebrates Baloni	Google Scholar, Web of Knowledge, Scopus	11/02/2014		0	0	0	12/02/2014
Macroinvertebrate Narran River	Google Scholar, Web of Knowledge, Scopus	11/02/2014		0	0	1	12/02/2014
Response of macroinvertebrates Barwo	Google Scholar, Web of Knowledge, Scopus	11/02/2014		0	0	0	12/02/2014
Response of macroinvertebrates Paroo	Google Scholar, Web of Knowledge, Scopus	11/02/2014		0	0	0	12/02/2014
Response of macroinvertebrates Warren	Google Scholar, Web of Knowledge, Scopus	11/02/2014		0	0	0	12/02/2014
Response of macroinvertebrates Castie	Google Scholar, Web of Knowledge, Scopus	11/02/2014		0	0	0	12/02/2014
Response of macroinvertebrates Macqu	Google Scholar, Web of Knowledge, Scopus	11/02/2014		0	0	3	12/02/2014
Response of macroinvertebrates Namoi	Google Scholar, Web of Knowledge, Scopus	11/02/2014		0	0	3	12/02/2014
Response of macroinvertebrates Gwyddi	Google Scholar, Web of Knowledge, Scopus	11/02/2014		0	0	0	12/02/2014
Response of macroinvertebrates Mehi	Google Scholar, Web of Knowledge, Scopus	11/02/2014		0	0	0	12/02/2014
Response of macroinvertebrates Conda	Google Scholar, Web of Knowledge, Scopus	11/02/2014		0	0	1	12/02/2014
turtles in the Murray-Darling Basin	Google Scholar, Web of Knowledge, Scopus	12/02/2014	975	2	1	5	12/02/2014
eastern long-necked turtle	Google Scholar, Web of Knowledge, Scopus	12/02/2014	2760	0	0	0	12/02/2014
Chelonia longirostris	Google Scholar, Web of Knowledge, Scopus	12/02/2014	1093	0	1	53	12/02/2014
Broad shelled turtle	Google Scholar, Web of Knowledge, Scopus	12/02/2014	20900	0	0	33	12/02/2014
Chelonia expansa	Google Scholar, Web of Knowledge, Scopus	12/02/2014	1208	0	0	0	12/02/2014
Western saw-shelled turtle	Google Scholar, Web of Knowledge, Scopus	12/02/2014	42	3	0	0	12/02/2014
Murray river turtle	Google Scholar, Web of Knowledge, Scopus	12/02/2014	20000	0	0	17	12/02/2014
Emydura macquii	Google Scholar, Web of Knowledge, Scopus	12/02/2014	730	0	0	81	12/02/2014
eastern saw-shelled turtle	Google Scholar, Web of Knowledge, Scopus	12/02/2014	49	1	0	1	12/02/2014
Myechelys latisternum	Google Scholar, Web of Knowledge, Scopus	12/02/2014		0	0	0	12/02/2014
turtles in central NSW	Google Scholar, Web of Knowledge, Scopus	12/02/2014	7130	1	0	14	12/02/2014
turtles in central Queensland	Google Scholar, Web of Knowledge, Scopus	12/02/2014	13800	0	0	0	12/02/2014
Frogs Murray-Darling River	Google Scholar, Web of Knowledge, Scopus	12/02/2014	1475	3	0	5	12/02/2014
Frogs Balonne River	Google Scholar, Web of Knowledge, Scopus	12/02/2014		0	0	0	12/02/2014
Frogs Maranoa River	Google Scholar, Web of Knowledge, Scopus	12/02/2014		0	0	0	12/02/2014
Frogs Culgoa River	Google Scholar, Web of Knowledge, Scopus	12/02/2014		0	0	0	12/02/2014
Frogs Neabine River	Google Scholar, Web of Knowledge, Scopus	12/02/2014		0	0	0	12/02/2014

Figure 1. Database of systematic searches

Author	Year	Title	Journal	Ref Type	URL	Last Updated
Marshall, Jo	2009	Taxonomic Resolution and Quantifica	Hydrobiolo	Journal Arti	http://dx.doi.org/10...	20/03/2014
Cullen, Peter	2003	Review of science underpinning the ...	Report to th...	Report	not accessible	20/03/2014
Poff, N LeRo	2003	River flows and water wars: emergin...	Frontiers in	Journal Arti	http://www.esajourn...	24/03/2014
Thoms, MC	2002	An ecosystem approach for determin...	Geomorph...	Journal Arti	http://www.science...	20/03/2014
Webb, Muni	2012	Determining the ecohydrological cha...	Ecohydrolo...	Journal Arti	http://www.science...	20/03/2014
Sheldon, Fra	2000	Using disaster to prevent catastroph...	Regulated ...	Journal Arti	from southwestnrm...	20/03/2014
Murray-Darli	2010	Condition Reporting of Basin Plan R...	Report	Report	not accessible	20/03/2014
James, Cas	2008	Zooplankton dynamics from inundati...	Aquatic Sci...	Journal Arti	http://link.springer.c...	20/03/2014
Sheldon, Fra	2010	Ecological roles and threats to aquati...	Marine and ...	Journal Arti	http://www.publish...	20/03/2014
Kath, Jarrod	2010	Wetland hydrology in an agricultural l...	Proceeding...	Report	http://eprints.usq.e...	20/03/2014
Sheldon, Fra	2010	Modelling the impacts of climate cha...	MDBA Publ...	Report	not accessible	20/03/2014
Benson, Lee J	2002	Lower Balonne Ecological Condition ...	Report	Report	not accessible	20/03/2014
Kingsford, Ri	2000	Ecological impacts of dams, water di...	Austral Eco...	Journal Arti	http://onlinelibrary...	20/03/2014
Sheldon, Fra	2000	Using disaster to prevent catastroph...	Regulated ...	Journal Arti	not accessible	20/03/2014
Chessman, ...	2009	Climatic changes and 13 year trends...	Global Cha...	Journal Arti	http://onlinelibrary...	20/03/2014
Kefford, Ben	2003	Relative salinity tolerance of macroin...	Marine and ...	Journal Arti	http://www.publish...	20/03/2014
Sheldon, Fra	2006	Relationships between flow variabilit...	River Rese...	Journal Arti	http://onlinelibrary...	20/03/2014
Hancock, M...	2002	Ecology of four turbid clay pans durin...	Hydrobiolo...	Journal Arti	http://link.springer.c...	20/03/2014
Jenkins, KM	2003	Connectivity in a dryland river: short-t...	Ecology	Journal Arti	http://www.esajourn...	24/03/2014
Timms, BV	2001	Typology of arid-zone floodplain wetl...	Archiv für H...	Journal Arti	http://cat.inist.fr?a...	20/03/2014
Jenkins, Kim	2005	A common parched future? Researc...	Hydrobiolo...	Journal Arti	http://link.springer.c...	20/03/2014
Kingsford, Ri	2006	Ecology of desert rivers	Book	Book	http://books.google...	24/03/2014
Lake, Sam	2006	Floods down rivers: from damaging t...	Advances i...	Magazine A...	http://books.google...	24/03/2014
Timms, Bria	1998	A study of Lake Wyara, an episodic...	Internationa...	Journal Arti	http://link.springer.c...	20/03/2014
Thoms, M, C	1998	The Impact of Irrigation Withdrawals ...	The Rangel...	Journal Arti	http://www.publish...	20/03/2014
McGregor, G	2006	Spatial and temporal variation in alg...	Marine and ...	Journal Arti	http://www.publish...	20/03/2014
Baker, Andre	2003	Cryptic species and morphological pl...	Molecular E...	Journal Arti	http://onlinelibrary...	20/03/2014
Timms, Bria	2001	Large freshwater lakes in arid Austral...	Lakes & Re...	Journal Arti	http://onlinelibrary...	20/03/2014
Hughes, Jan	2009	Genes in streams: using DNA to und...	BioScience	Journal Arti	http://bioscience.o...	20/03/2014
Thoms, MC	2000	Water resource development and hy...	Journal of H...	Journal Arti	http://www.science...	20/03/2014

Figure 2. Endnote database

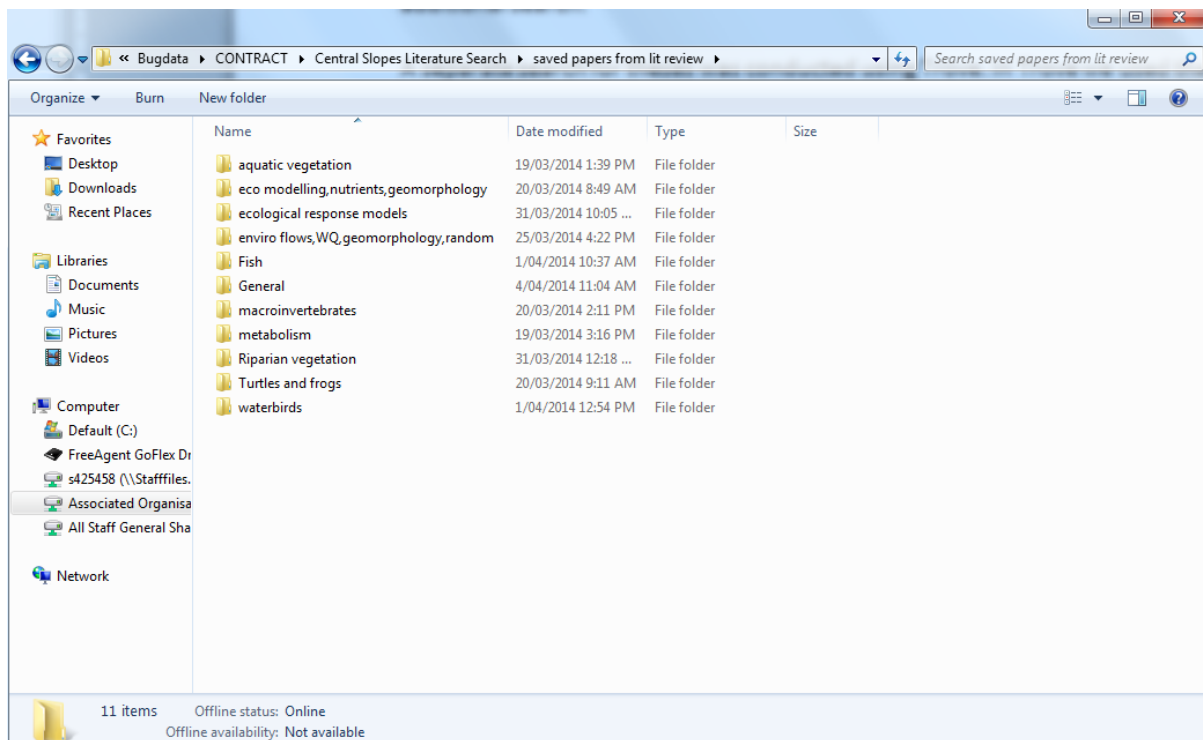


Figure 3. Saved PDF's and word documents