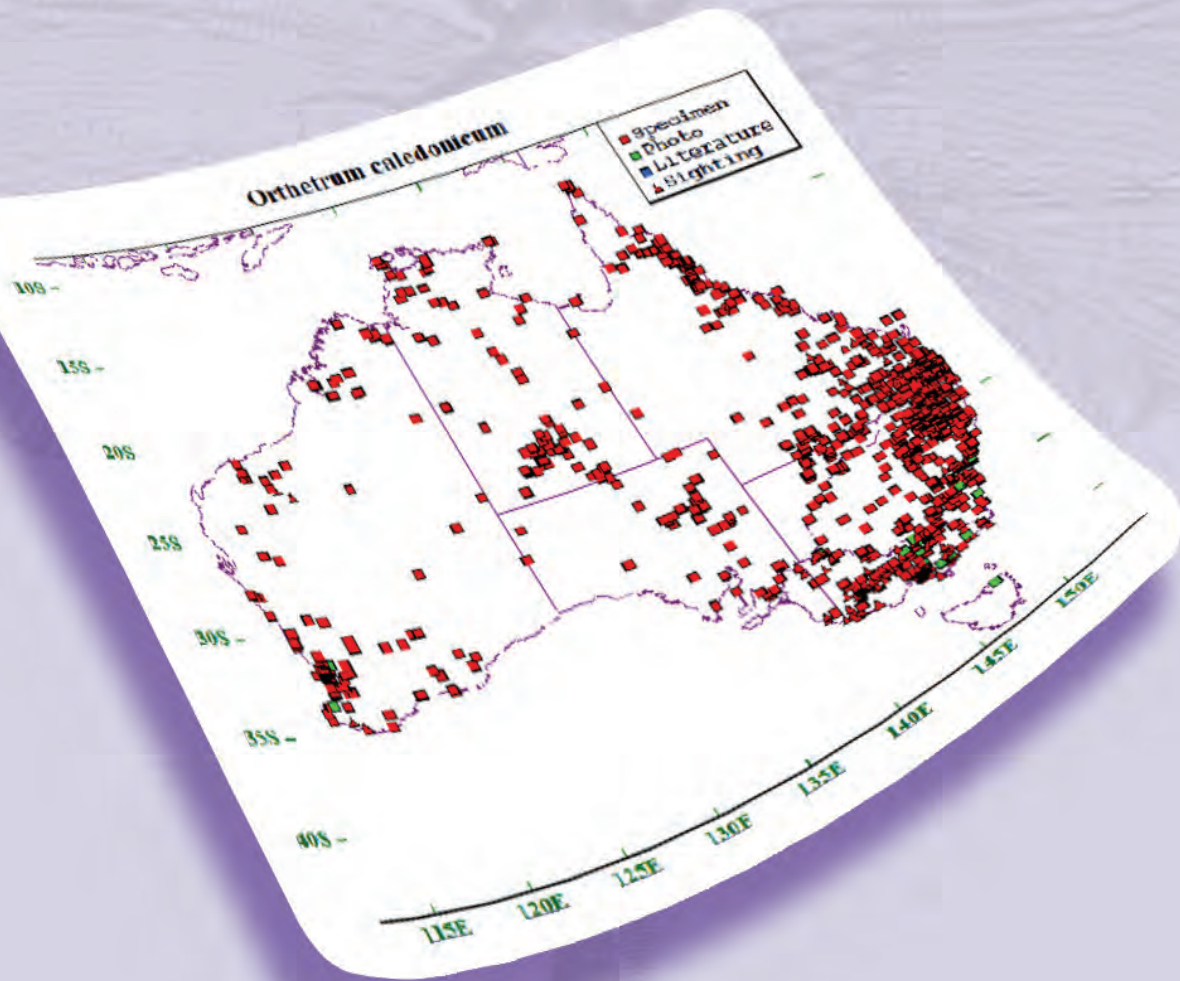


The Distribution of Australian Dragonflies



IAN ENDERSBY

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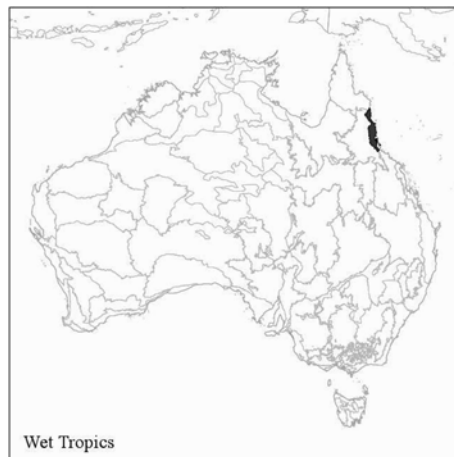
Cover: Distribution of *Orthetrum caledonicum*

Frontispiece:

(Upper) Most speciose IBRA7 region [145 species] (Wet Tropics)

(Lower) IBRA7 region with most records [8,957] (Southeast Queensland)

Dedicated to Margaret Rose Endersby (1939 – 2014)
whose favourite species was *Orthetrum caledonicum*



Contents

Preface	vii
Sources	ix
Acknowledgements	xi
Overview	1
Introduction	3
Sources of Data	3
Hierarchy of reliability	5
Precision of Maps and Observations	6
What the Maps Tell Us	7
Flight Seasons	8
Distribution Maps	13
Interim Biogeographical Regions of Australi [IBRA7]	69
Köppen Climate Zones for Australia	242

Preface

Upon reading in Tony Watson's paper¹ on the distribution of Australia's dragonflies that Victoria (my home state) had only 63 species, I realised that it was a number I could get my mind around. Not like the beetles, moths or flies. Soon after, the chance finding of Fraser's handbook² of Australasian dragonflies in a secondhand book shop enabled me to extract a key to the Victorian species; thus was a new interest sparked.

Having seen many of the local species, observed prolonged tandem underwater oviposition and the temperature-induced colour change of *Austrolestes annulosus*, I wondered if it would be possible to map the distribution of the Victorian species. So I visited the collection of the Melbourne Museum only to find that the label data had not yet been digitised. Years later, after re-gluing many dislodged heads and legs, I completed that task for the whole collection, which was Australia wide. With that as a start the project burgeoned to become mapping the distribution of all species recorded within Australia. With the invaluable help of curators and collection managers I was able to assemble all of the digitised records from Australian museums. Hobart required a special visit to digitise its collection label data. A preliminary set of maps was published in updated identification key³ prepared by Gunther Theischinger and myself.

Since then I have continued to gather distribution data from overseas museums, additional records of Australian museums, species lists of visitors who can authenticate their identifications, from amongst the plethora of wildlife photographers those whose identifications I

1. Watson, J.A.L. (1974) The distributions of the Australian Dragonflies (Odonata). *Journal of the Australian Entomological Society* 13: 137-149

2. Fraser, F.C. (1960) *A handbook of the dragonflies of Australasia, with keys for Identification of all species*. Royal Zoological Society of New South Wales: Sydney. 67 pp. 26 pls.

3. Theischinger, G. & Endersby, I. (2009) *Identification Guide to the Australian Odonata*. Department of Environment, Climate Change and Water, NSW

can trust, and where there are big gaps, from the odonatological literature.

Encouraged by Vincent Kalkman to use the data to produce charts of flight times, it was obvious from the size and geographic spread of Australia, that any such charts would be latitude-, if not altitude-, dependent. The Interim Biogeographic Regionalisation for Australia (currently IBRA7) classifies Australia's landscapes into 89 large geographically distinct bioregions based on common climate, geology, landform, native vegetation and species information. It seemed an ideal vehicle to overcome this problem and so the distribution of each species was also sorted into IBRA7 categories before flight times were analysed. However, the characteristics which define biogeographic regions are probably not those which influence dragonfly distribution so a further analysis using climate zones was also made.

And so you have this book.

Sources

Australian Museum, Sydney, New South Wales

Australian National Insect Collection, Division of Entomology, CSIRO, Canberra City, A.C.T.

California State Collection of Arthropods. California Department of Food and Agriculture. USA

Dennis Paulson private collection

Environment Protection Authority (EPA) NSW, Sydney, New South Wales

Fons Peel Dragonflypix photographic collection

Gunther Theischinger private collection

Museum and Art Galleries of the Northern Territory, Darwin, Northern Territory

Museum of Victoria, Melbourne, Victoria

Nationaal Natuurhistorisch Museum (formerly Rijksmuseum van Natuurlijke Historie), Leiden, Netherlands - Vincent Kalkman collections

National Museum of Natural History (Smithsonian Institution), Washington, D.C., USA

Office of *Environment* and Heritage New South Wales - Data from Scientific Licences (*Petalura gigantea*)

Queen Victoria Museum, Launceston, Tasmania

Queensland Museum, Brisbane, Queensland

Reiner Richter from Atlas of Living Australia 2018-05-04

Rosser W. Garrison private collection

South Australian Museum, Adelaide, South Australia

Tasmanian Museum and Art Gallery, Hobart, Tasmania

Western Australian Museum, Perth, Western Australia

Scientific Literature

Acknowledgements

For provision of specimen distribution data: Tom Weir, Federica Turco, Jaime Florez (ANIC); David Britton, Derek Smith (Australian Museum); Ken Walker, Peter Lillywhite (Melbourne Museum); Jan Forrest (South Australian Museum); Gavin Dally (Museums and Art Galleries of the Northern Territory); Craig Reid (Queen Victoria Museum & Art Gallery); Genefer Walker-Smith, Kirrily Moore (Tasmanian Museum and Art Gallery); Chris Burwell, Susan Wright, Karin Koch (Queensland Museum); Terry Houston (Western Australian Museum); Dennis Paulson (USA); Gunther Theischinger (EPS, NSW and his personal collection); Fons Peel (of Dragonflypix); Rosser Garrison (his personal collection and that held in the California State Collection of Arthropods); Vincent Kalkman (his collections made in Australia and held in the Naturalis Biodiversity Center); Reiner Richter (data held in the Atlas of Living Australia [Creative Commons Attribution 3.0 Australia (CC BY) Reiner Richter (Odonata), 2 August 2015])

Jim Longworth (Department Agriculture, Water and the Environment) gave invaluable assistance allocating each specimen to its IBRA7 region and Köppen Climate Zone and providing the maps of those regions. The climate maps are covered by the open licence CC - BY. The Bureau of Meteorology is the source of the images.

Overview

This book comprises three sections:

Distribution maps for 325 species of Australian Odonata derived from nearly 60,000 records



Checklists and flight times for each of the 89 Interim Biogeographical Regions of Australia (IBRA7)



Checklists and flight times for each of the 27 Köppen Climate Zones of Australia



Introduction

Sources of Data

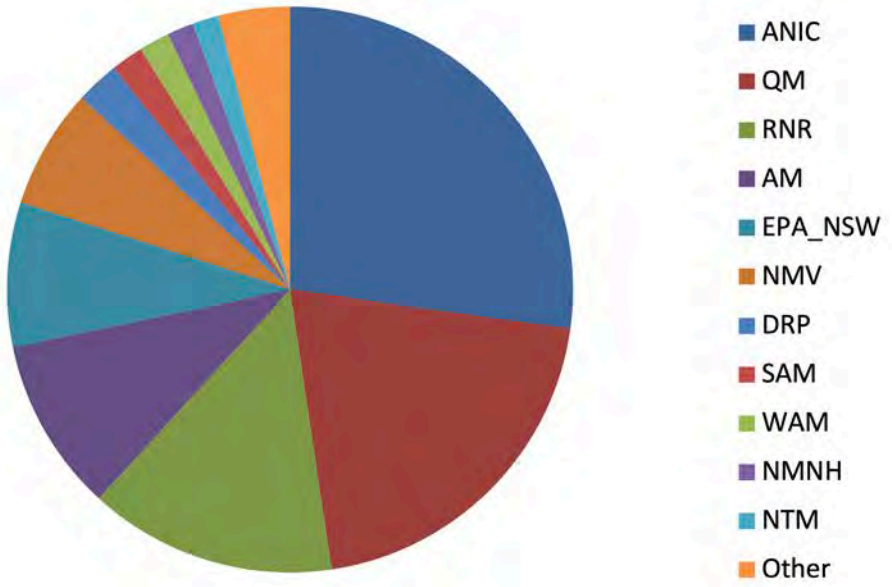
Although Australian Institutions now regularly submit their digitized label data to centralised repositories such as the Atlas of Living Australia (ALA) that resource has been used sparingly in the preparation of these distribution maps. They are based primarily on original information from the Collection Managers of the individual museums augmented, in the case of the Australian Museum, with subsequent ALA postings. Individual collectors have also been generous in sharing their specimen data and they are listed in the Acknowledgements section. As each collection has been added to the database the new information has been plotted on the maps and extreme outliers either questioned or removed. There are some which remain but they have been validated. Possibly they are due to vagrant behavior or unusual weather conditions.

Considering those Institutions or Individuals who provide more than 800 records each (and this comprises 96% of the total) we can see their relative contributions in the pie chart below.

Because Australian specimens in their collections are not digitised the substantial holdings at the London Natural History Museum and Naturalis Biodiversity Center, Leiden could not be included.

Acronyms are: ANIC (Australian National Insect Collection, Canberra); QM (Queensland Museum, Brisbane); RNR (Reiner Richter ex Atlas of Living Australia); AM (Australian Museum, Sydney); EPA_NSW (Environment Protection Authority, NSW); NMV (Museums Victoria, Melbourne); DRP (Dennis Paulson, USA); SAM (South Australian Museum, Adelaide); WAM (Western Australian Museum,

Perth); NMNH (National Museum of Natural History [Smithsonian Institution], Washington D.C.); NTM (Museum and Art Galleries of the Northern Territory, Darwin).



For those who like actual numbers:

ANIC	15,846
QM	11,923
RNR	8,266
AM	5,788
EPA_NSW	4,795
NMV	3,997
DRP	1,448
SAM	1,071
WAM	1,023
NMNH	879
NTM	871
Other	2,390

TOTAL 58,297

A project such as this is at the mercy of the idiosyncrasies of the cataloguer. If a specimen exists, its identification can be checked but if erroneous locality information has been given it can lead to large errors. One serious problem is when a specimen label says 'Australia' or even 'New Holland' or even just the State where the specimen was collected and the cataloguer assigns the geographic centroid of Australia or the State as the locality. In reality the maps show the distribution of the activity of the collectors, not insects but, it is hoped with almost 60,000 records, that the distributions are well delineated. It is possibly more of a problem when assessing flight times.

Hierarchy of reliability

The maps are colour-coded to show if the point represents a specimen, literature record, photo or observation. In decreasing order of reliability these categorizations are:

Adult Specimen

If a properly curated specimen is available its identification can be confirmed. There can be some doubt, occasionally, about locality information. Illegible writing on a label or different localities with the same name can lead to errors. Extreme outliers on the maps have been removed.

Literature

There are relatively few instances in the database and, generally, they are from the original description, therefore correct by definition.

Larval Specimen

Larvae are more difficult to identify than adults and for some no morphologically distinguishing characteristics have yet been found.

Obviously, they can't contribute to flight-time phenology

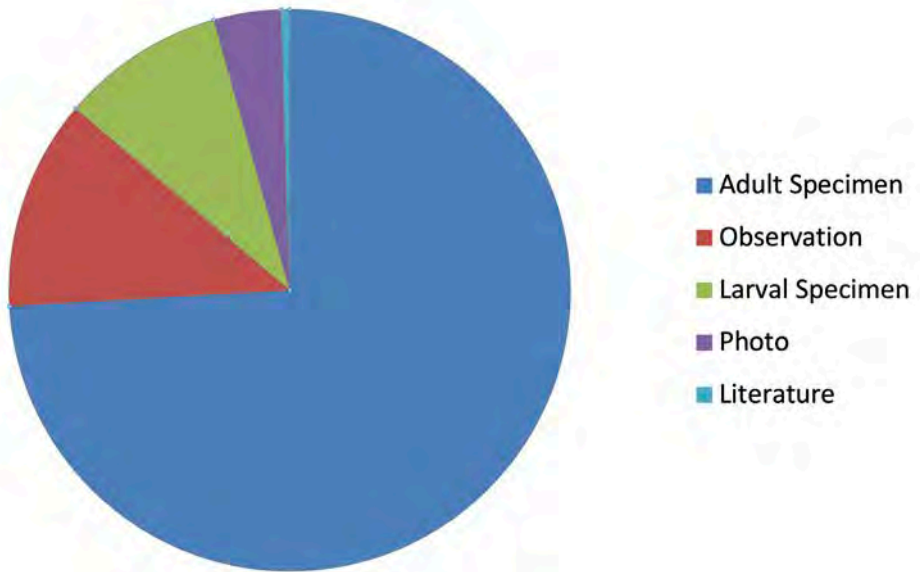
Photo

Even good photos do not always show in sufficient detail characters which are essential to separate some very similar species. Teneral and some females are particularly problematic.

Observation

This depends on the skills and experience of the observer and, for many species, it is the most unreliable method of recording presence. With some observers it also suffers from the desire to spot rarities.

This chart shows that the bulk of the records come from adult dragonflies thus giving a high degree of confidence in the maps.



Precision of Maps and Observations

Each map square covers an area of 30' longitude x 30' latitude. On average, in Australia, this represents an area 55 km (N-S) x 45 km (E-W).

Degrees of latitude are parallel so the distance between each degree remains almost constant but since degrees of longitude are farthest apart at the equator and converge at the poles, their distance varies greatly.

Each degree of latitude is approximately 111 kilometers apart. Due to the earth's slightly ellipsoid shape the range varies from 110.567 km at the equator to 111.699 km at the poles. A degree of longitude is widest at the equator at 111.321km and gradually

lessens to zero at the poles. The length of 1 degree of Longitude = cosine (latitude in decimal degrees) * length of degree at equator. At the tip of Cape York, Australia's northernmost point [10° 41' 14.09"S, 142° 31' 52.88 E] one degree of longitude is 109 km while at the southernmost tip of Tasmania [43° 39' 14.73"S, 146° 51' 01.28 E] it is 89 km.

A change of 1 in the third decimal place of a decimal degree means only about 90 metres on the ground. Quoting six decimal points (= 0.003") (as some do) implies an accuracy of better than 10 centimetres.

What the Maps Tell Us

The database from which these maps were produced contained 58, 297 separate entries, each representing a curated specimen, a literature record, a photograph or a sighting with a high probability of being correctly identified. Dbase, the program used to generate the maps only marks one square for each collection event (i.e. species, locality, date) and it has 35,900 entries. So, 38% of records came from multiple captures from the same locality on the same date.

Four of those specimens are *Agriocnemis exsudans* from the Australian Territory of Norfolk Island and are not included on the maps of the mainland. Twelve specimens have no coordinates but do have a locality given which might enable them to be mapped if addressed by someone with local knowledge.

There are maps for 325 species. Half the species account for 94% of the database occurrences. It is a very skewed distribution. Invoking Pareto's Rule we see that 80% of the specimens are from 87 species, 27% of the total number.

Fifty-three species have less than 10 occurrences in the database while five have only one:

Austrogomphus pusillus Sjöstedt, 1917; *Eusynthemis cooloola* Theischinger, 2018; *Hemigomphus atratus* Watson, 1991; *Micromidia rodericki* Fraser, 1959; *Telephlebia undia* Theischinger, 1985.

Eusynthemis cooloola has been recently described from a single adult male specimen collected in 1984.

The top 10, each with more than 1,000 specimens, photos or sightings are:

Ischnura heterosticta

Diplacodes bipunctata

Austroargiolestes icteromelas

Orthetrum caledonicum

Hemicordulia tau

Ischnura aurora

Diplacodes haematodes

Hemianax papuensis

Xanthagrion erythroneurum

Austrolestes leda

How many entries make good map? If we assume that number to be 30 (*cf.* maps for *Episynlestes cristatus* or *Petalura ingentissima*) then only 221 qualify; 32% are inadequate. If 20 points are considered enough (*cf.* maps for *Austrogomphus arbustorum* or *Zyxomma petiolatum*) then another 18 would be added but the number of inadequate ones is still slightly more than a quarter. The geographic spread of the points has quite a bearing on these appearances.

Flight Seasons

An important aspect of the phenology of Dragonflies is the studying the flight times of Adults. Date of capture might be a possible surrogate to analyse flight seasons. However there are some difficulties:

1. Australia has a large latitudinal and climate range;
2. Actually we are sampling the visits of collectors rather than dragonflies;
3. Some collectors take a large series of specimens; others don't. This could bias the sampling and analysis.

Ideally, the sampling effort should have been consistent across all months within a specified zone, using the same protocol.

Zonation

Some dragonflies have a large latitudinal range within Australia. Comparing the flight times of *Hemianax papuensis* from Cape York with those from central Tasmania bears no sense. Similarly for *Ischnura aurora*, *Ischnura heterosticta* and any other species with a large geographic range. One solution to this might be to consider partitioning the lists into discrete regions. Based on global ecoregions the Interim Biogeographic Regionalisation for

Australia (IBRA), was prepared giving distinct bioregions based on common climate, geology, landform, native vegetation and species information. IBRA was developed in 1993-94 and version 6.1 was published in 2004. It comprised 85 bioregions and 403 subregions, subregions are more localised and homogenous geomorphological units in each bioregion. Descriptions of each bioregion were taken from internet listings for IBRA6.1. In 2014 IBRA 7 defined 89 bioregions and 419 subregions, adding four new oceanic bioregions: the Indian Tropical Islands Bioregion, the Pacific Subtropical Islands Bioregion, the Subantarctic Islands Bioregion and the Coral Sea Bioregion. These bioregions account for Australia's island territories including Christmas Island in the Indian Ocean, Macquarie Island in the Southern Ocean, Norfolk and Lord Howe Islands in the Pacific Ocean and the Coral Sea Islands Territory. Flight time charts, which also serve as local checklists, for the IBRA 7 zones can be found between pages 69 and 241. Almost 10% of records are from larvae but collection dates of specimens of larvae cannot contribute to flight calendars for adults so they have been ignored. However, on the rare occasion where a larva species has been sampled without a comparable adult being recorded, that larva is included in the total number of species.

The totals in the flight charts are raw numbers of specimens or observations. No attempt has been made to standardize (or colour-code) them for comparison. In this way they give an appreciation of the total numbers that have been included.

In hindsight a zonation based on geomorphological and vegetation characteristics, such as the IBRA parameters is not consistent with dragonfly biology. Hydrology and temperature are likely to be more relevant so perhaps climate zones should be used. The **Köppen climate classification** is one of the most widely used climate classification systems. It was first published by the German-Russian climatologist Wladimir Köppen from the University of Graz, Austria in 1884. It is based on the assumption that native vegetation is the best indicator of climate zone boundaries. The classification divides climates into five main climate groups, with each group, and its subgroups, being based on seasonal precipitation and temperature patterns. His five main groups are *A* (tropical), *B* (dry), *C* (temperate), *D* (continental), and *E* (polar). Stern *et al* (2000)⁴ modified the scheme for Australian conditions, using mean monthly rainfall, mean annual rainfall, mean maximum temperature and mean minimum temperature from the Bureau of Meteorology's records for the 30-year period 1961-1990. The resulting 27 zones, with the number of records and number of species of dragonflies, are:

4. Stern H., de Hoedt, G. & Ernst, J. (2000). Objective classification of Australian climates. *Australian Meteorological Magazine* 49: 87-96

	Species	Specimens
Desert - Hot (persistently dry)	28	448
Desert - Hot (Summer drought)	12	89
Desert - Hot (Winter drought)	16	67
Desert - Warm (persistently dry)	9	21
Equatorial - Rainforest (monsoonal)	12	27
Equatorial - Savanna	105	2423
Grassland - Hot (persistently dry)	52	1463
Grassland - Hot (Summer drought)	41	578
Grassland - Hot (Winter drought)	91	1421
Grassland - Warm (persistently dry)	38	1204
Grassland - Warm (Summer drought)	5	10
Subtropical - Distinctly dry summer	35	1086
Subtropical - Distinctly dry winter	106	1111
Subtropical - Moderately dry winter	108	1616
Subtropical - No dry season	190	10251
Temperate - Distinctly dry (and hot) Summer	40	925
Temperate - Distinctly dry (and mild) Summer	1	1
Temperate - Distinctly dry (and warm) Summer	54	1387
Temperate - Moderately dry Winter (hot Summer)	43	202
Temperate - Moderately dry Winter (warm Summer)	11	15
Temperate - No dry season (cool Summer)	23	206
Temperate - No dry season (hot Summer)	123	4482
Temperate - No dry season (mild Summer)	95	4788
Temperate - No dry season (warm Summer)	126	16214
Tropical - Rainforest (monsoonal)	127	2341
Tropical - Rainforest (persistently wet)	103	1071
Tropical - Savanna	155	4828

Flight time charts, which also serve as local checklists, for the Australian Köppen climate zones can be found between pages 242 and 318. The same caveats which relate to the use of larvae in IBRA7 zones also apply here.

It could be constructive to see whether there are any common factors in the most populous climate zones that determine dragonfly preference. Eighty percent of the specimens come from just eight climate zones.

These are, in descending order:

- Temperate - No dry season (warm Summer)
- Subtropical - No dry season
- Tropical - Savanna
- Temperate - No dry season (mild Summer)
- Temperate - No dry season (hot Summer)
- Equatorial - Savanna
- Tropical - Rainforest (monsoonal)
- Subtropical - Moderately dry winter

There seems to be no common factor standing out from these groups except No Dry Season which is understandable.

Inequitable Sampling

The problem of inequitable sampling is best demonstrated by reference to IBRA7 zone DEU – Desert Uplands – an area in central Queensland.



While there are records of 140 specimens and 32 species they were made over only effectively five visits most of which were in April.

16-April-1973

30-April-1980

08-April, 09-April, 11-April, 12-April,

13-April, 14-April, 15-April, 16-April,

17-April, 18-April-2000

16-December-2006

28-October-2010

Checklists

The checklists which are the basis for the individual flight time charts are based on:

The classification and diversity of dragonflies and damselflies (Odonata) (2013) Dijkstra, K.-D. B., Bechly, G., Bybee, S.M., Dow, R.A., Dumont, H.J., Fleck, G., Garrison, R.W., Hämäläinen, M., Kalkman, V.J., Karube, H., May, M.L., Orr, A.G., Paulson, D.R., Rehn,

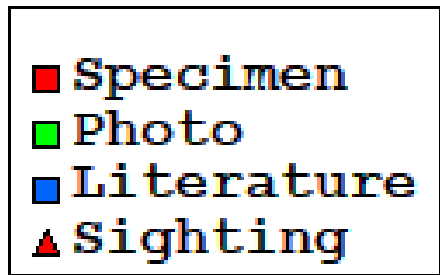
A.C., Theischinger, G., Trueman, J.W.H., van Tol, J., von Ellenreider, N. & Ware, J. pp. 36-45 in: Zhang, Z-Q. (Ed.) *Animal Diversity: An Outline of Higher Classification and Survey of Taxonomic Richness* (Addenda). *Zootaxa* 3703: 1-82.

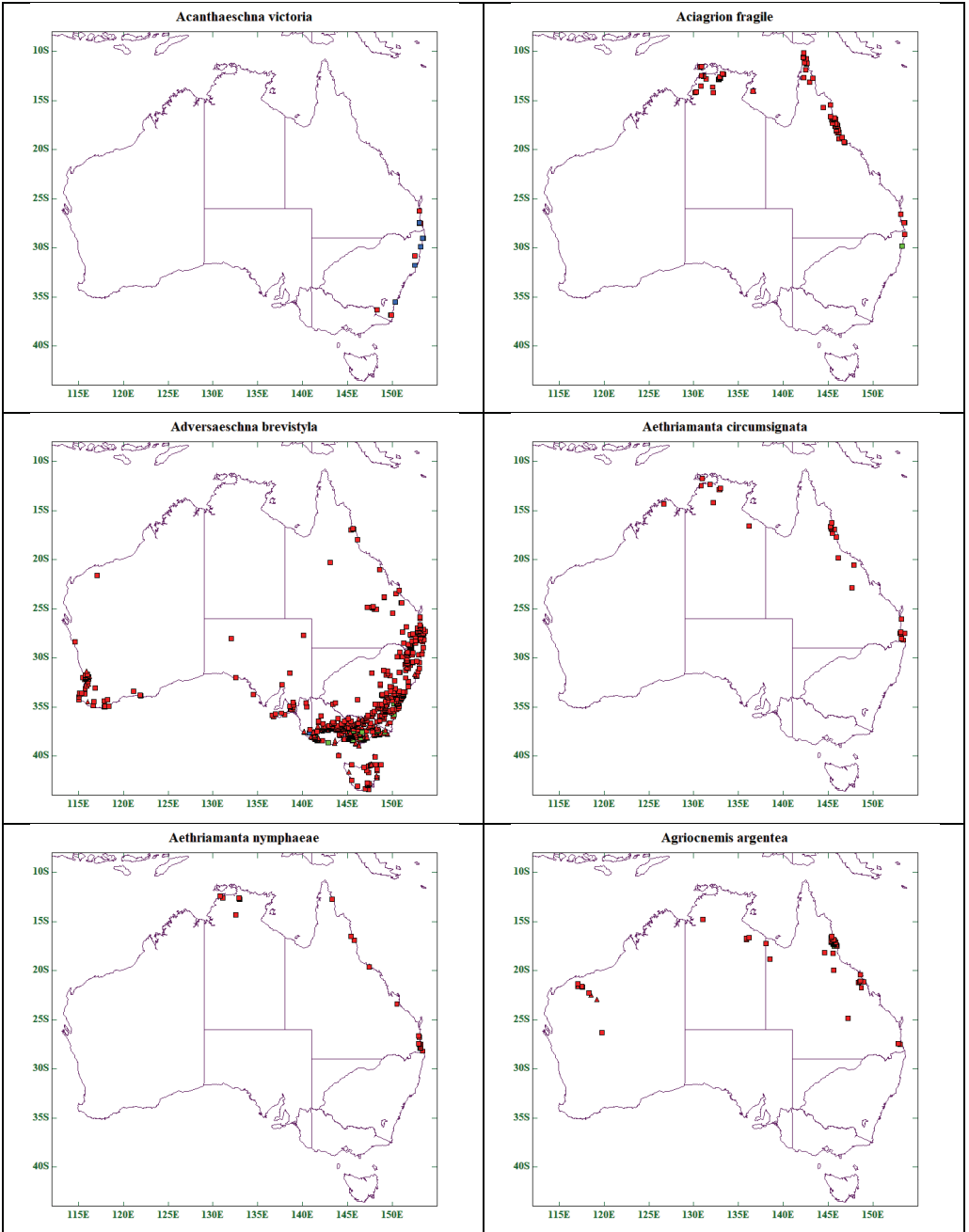
Generic revision of Argiolestidae (Odonata), with four new genera. (2013) Kalkman, V.J & Theischinger, G. *International Journal of Odonatology* 16(1): 1-52

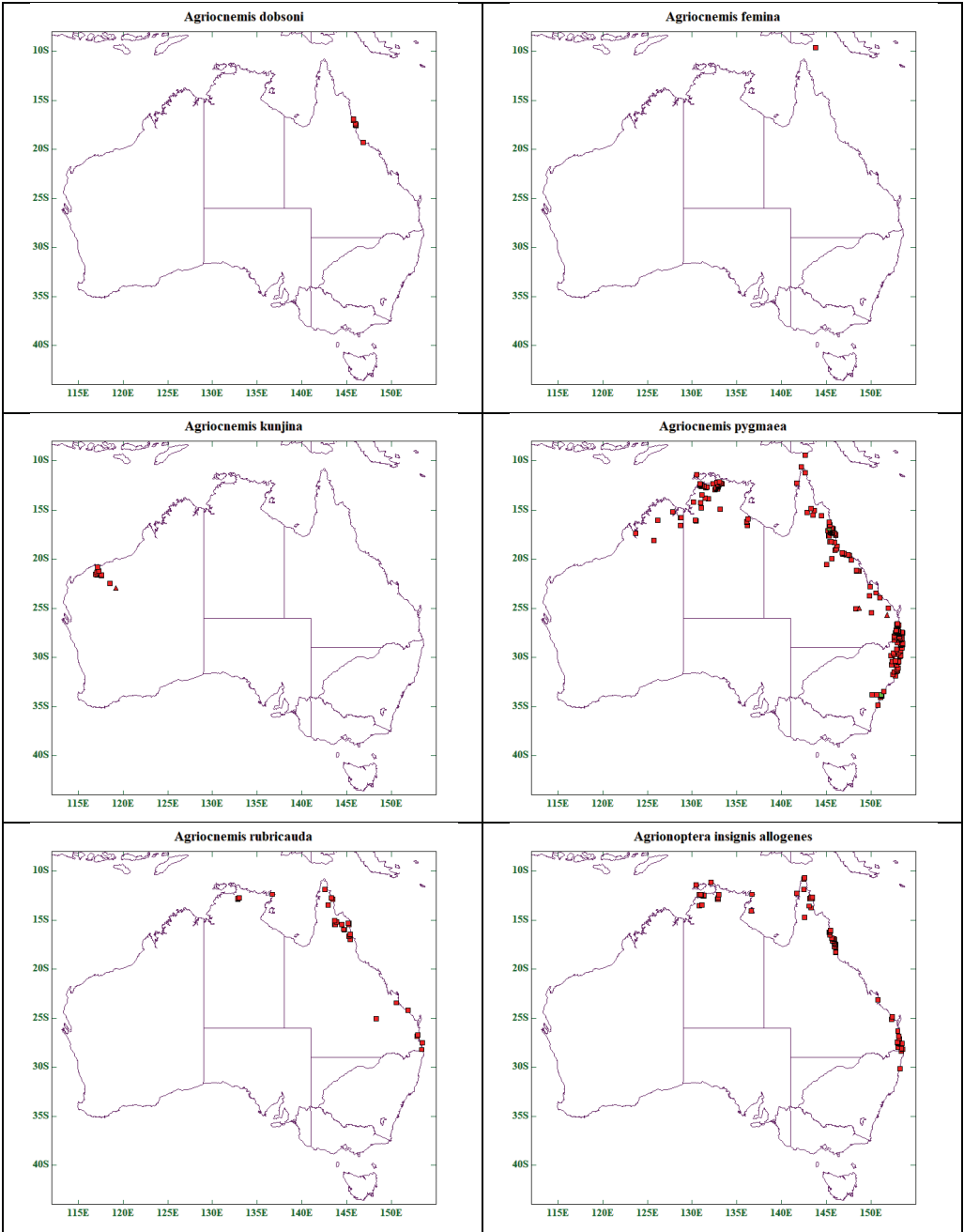
The authors of the first article consider the Australian genera *Apocordulia*, *Archaeophya*, *Austrocordulia*, *Austrophya*, *Cordulephya*, *Hesperocordulia*, *Lathrocordulia*, *Micromidia*, and *Pseudocordulia* to be *incertae sedis* within the Libelluloidea.

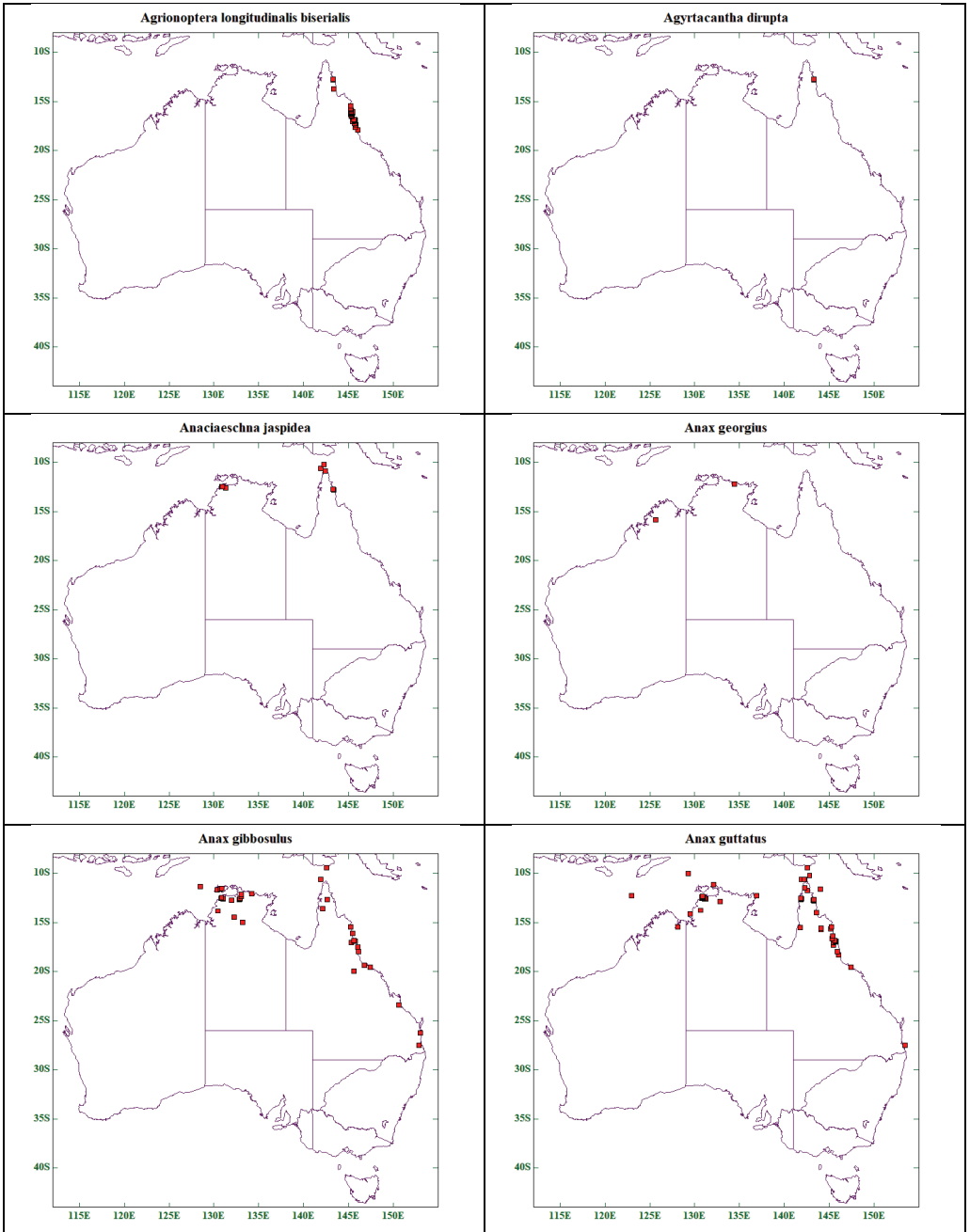
Austrocoenagrion [as opposed to *Coenagrion lyelli*] was resurrected in Dijkstra, K.-D.B., & Kalkman, V.J. 2012. Phylogeny, classification and taxonomy of European dragonflies and damselflies (Odonata): a review. *Organisms Diversity and Evolution* 12: 209-227, and repeated in Dijkstra, K.-D.B., Kalkman, V.J., Dow, R.A., Stokvis, F.R. & van Tol, J. 2013. Redefining the damselfly families: a comprehensive molecular phylogeny of Zygoptera (Odonata). *Systematic Entomology* 39: 68-96.

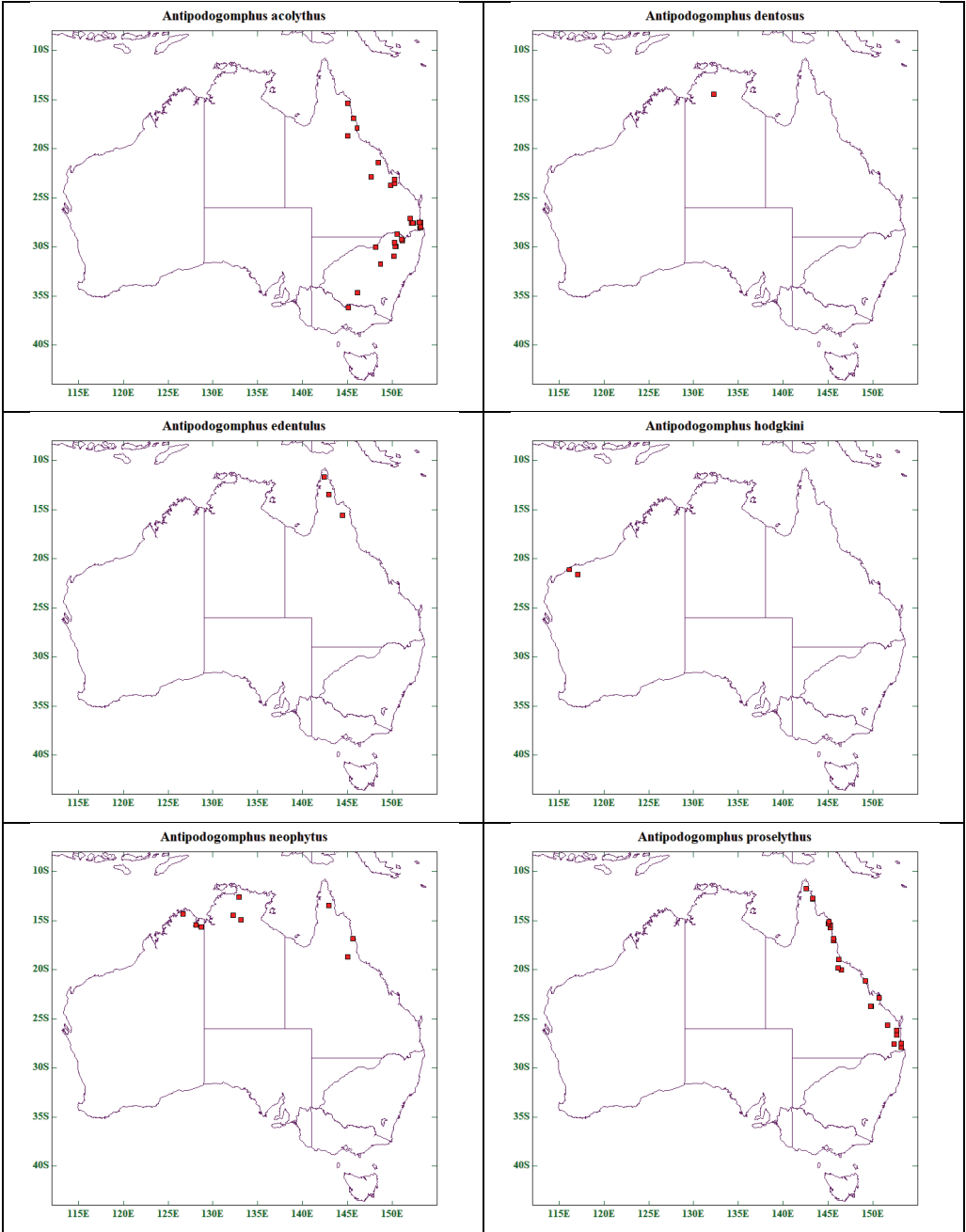
Distribution Maps

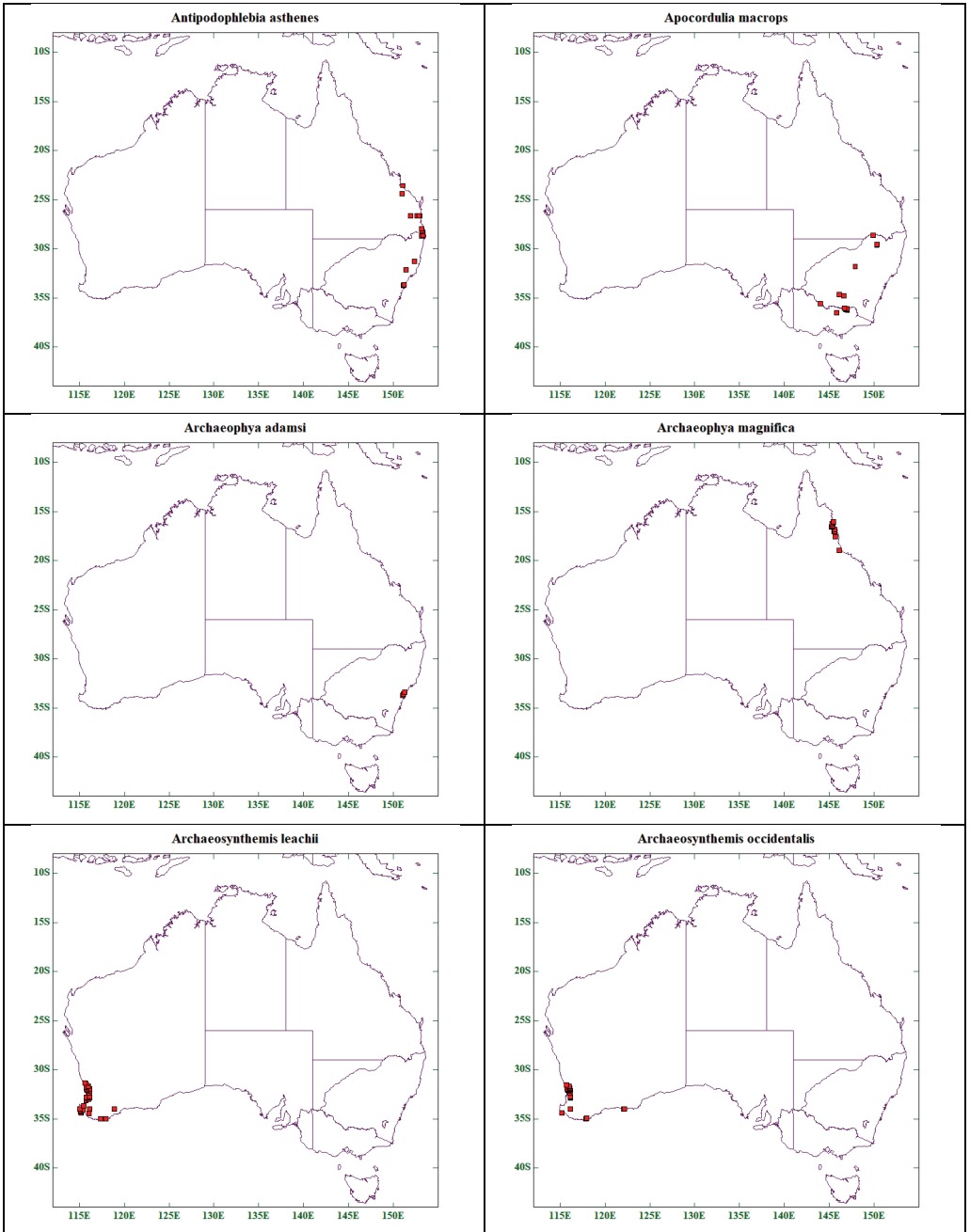


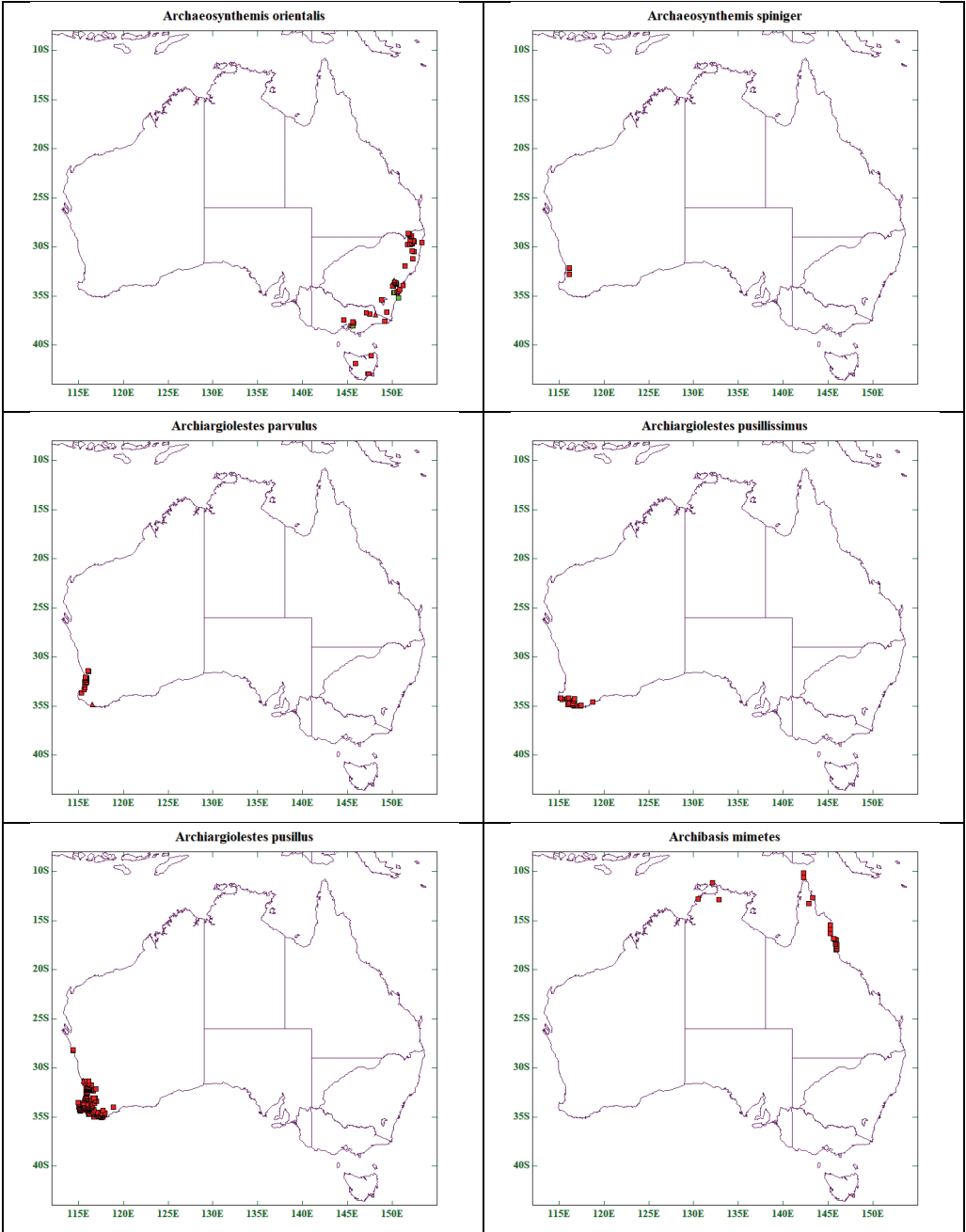




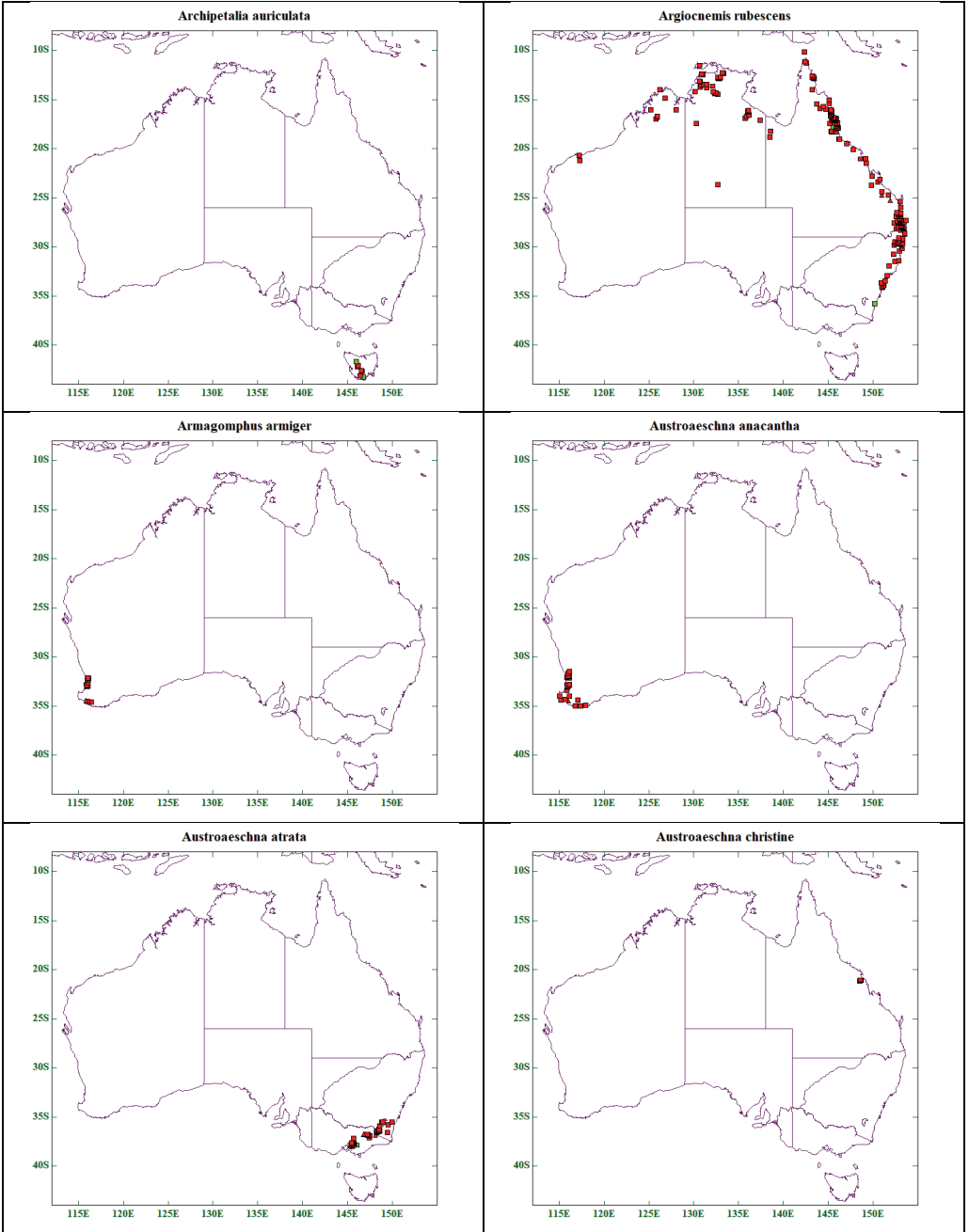


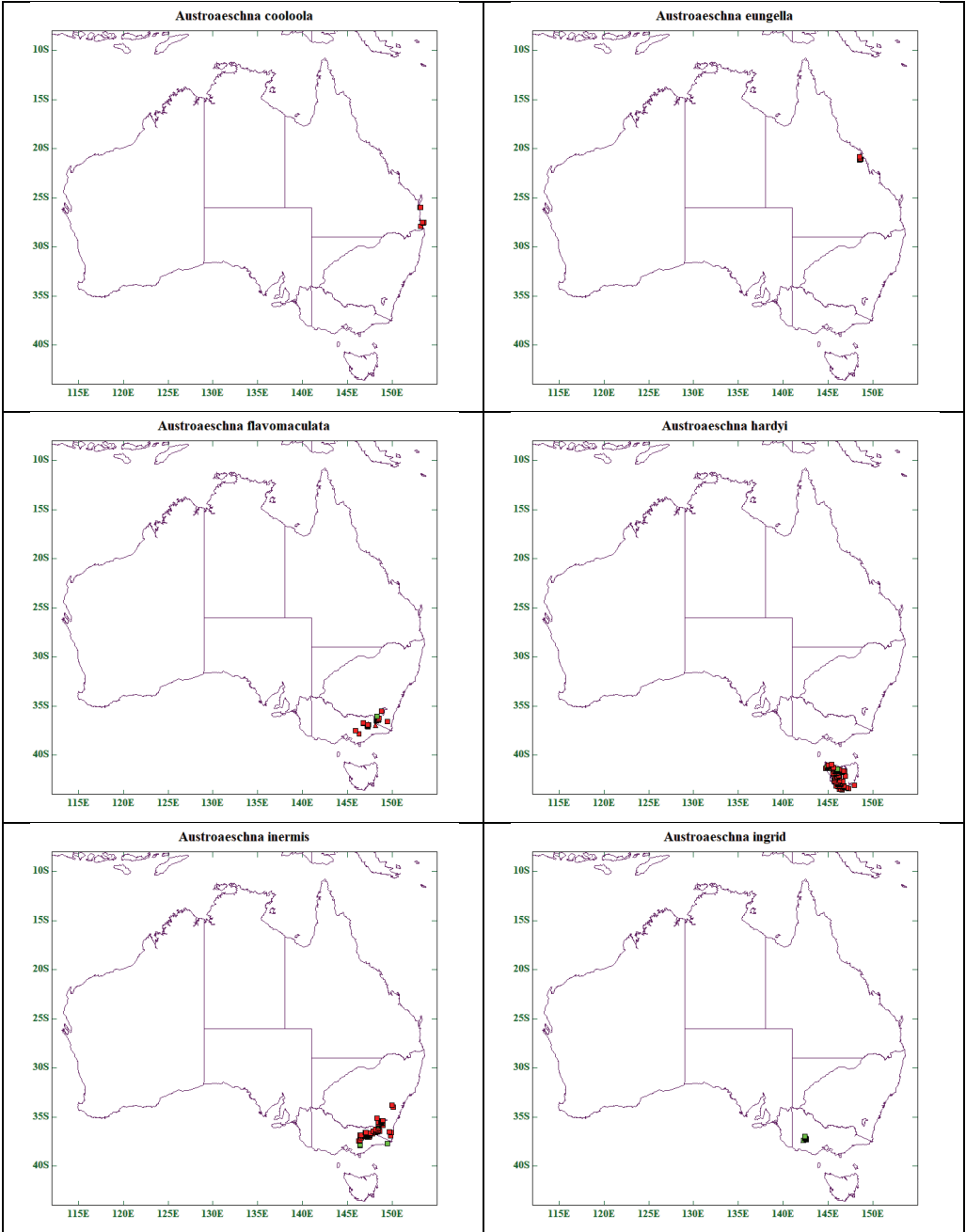


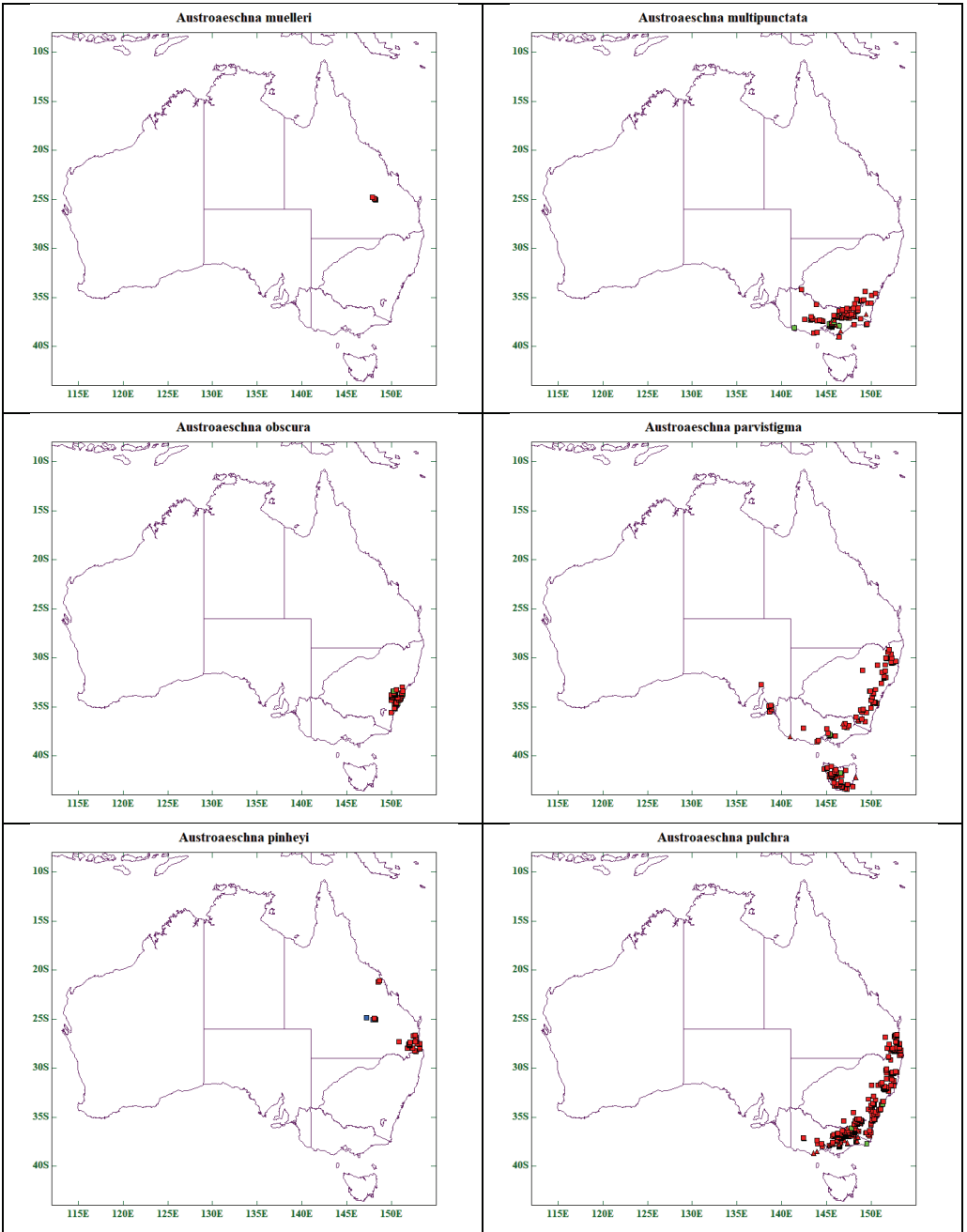


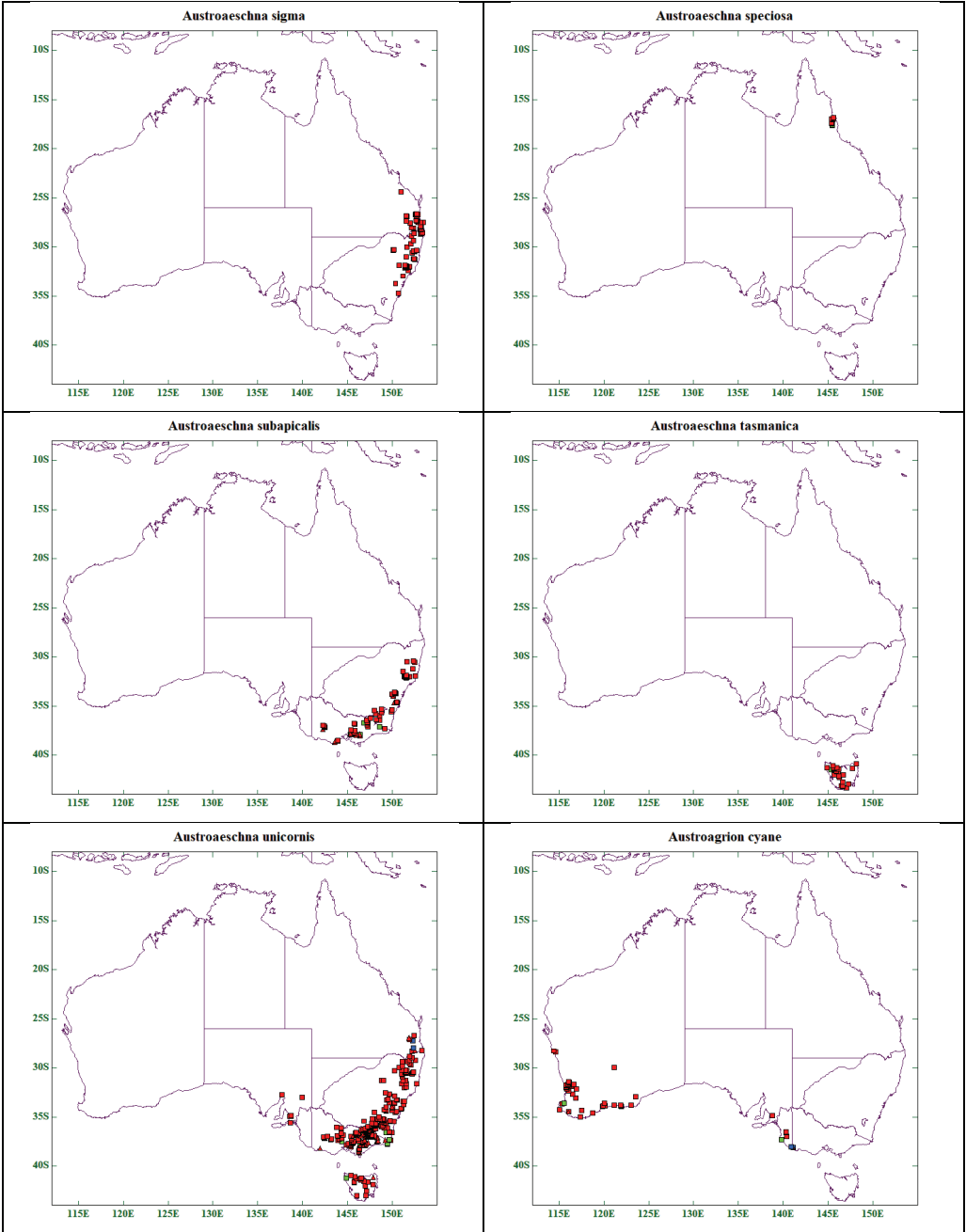


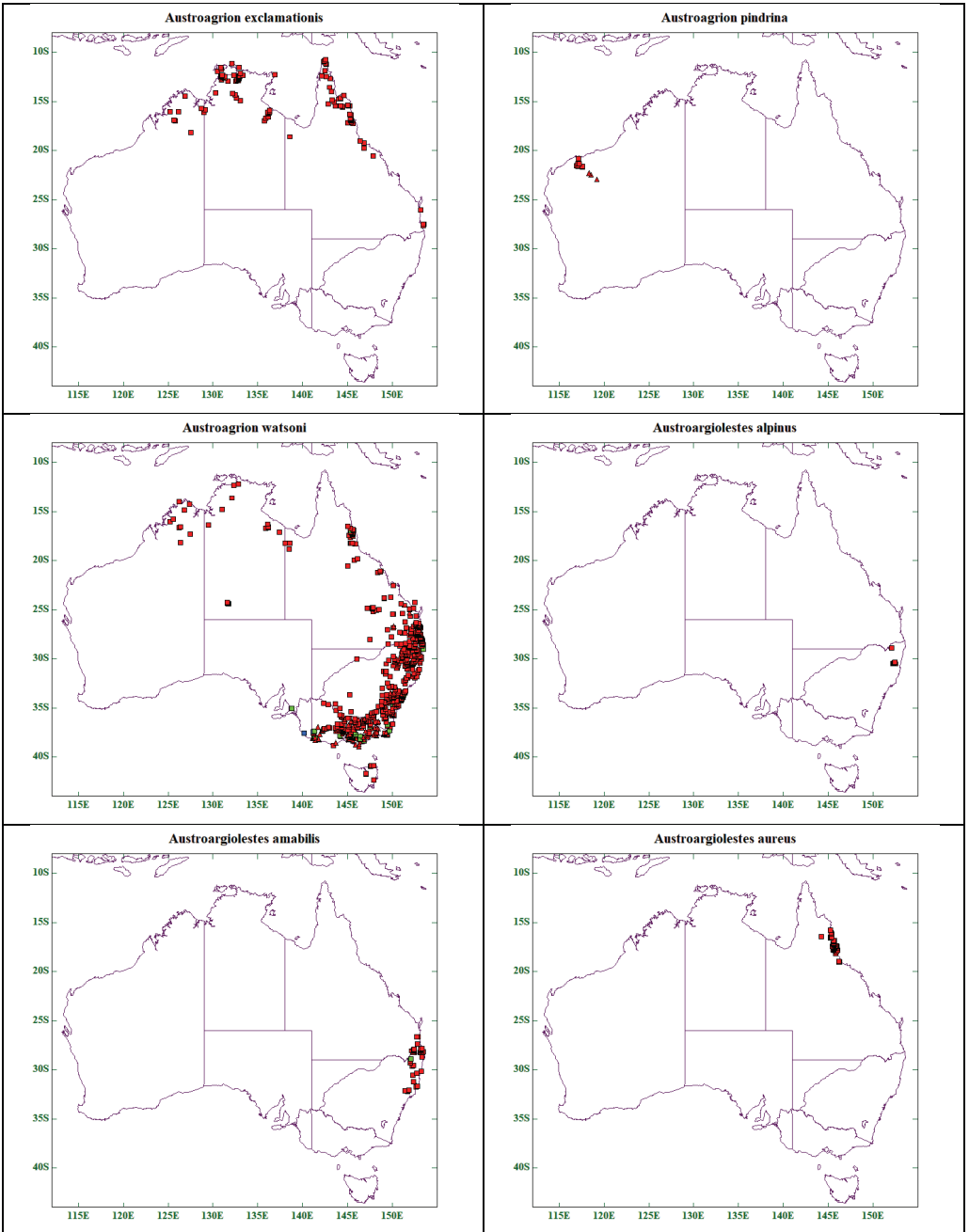
The Distribution of Australian Dragonflies

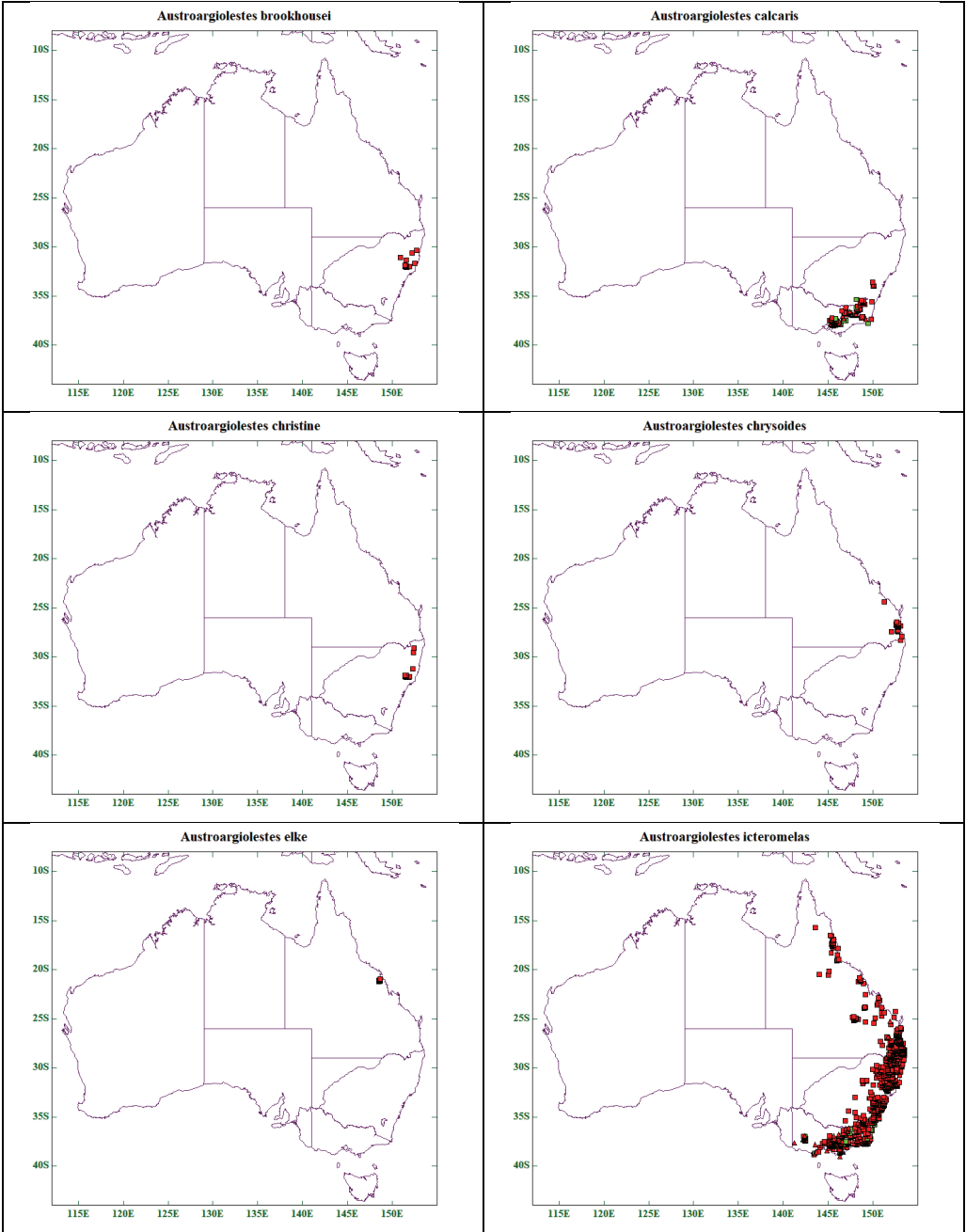


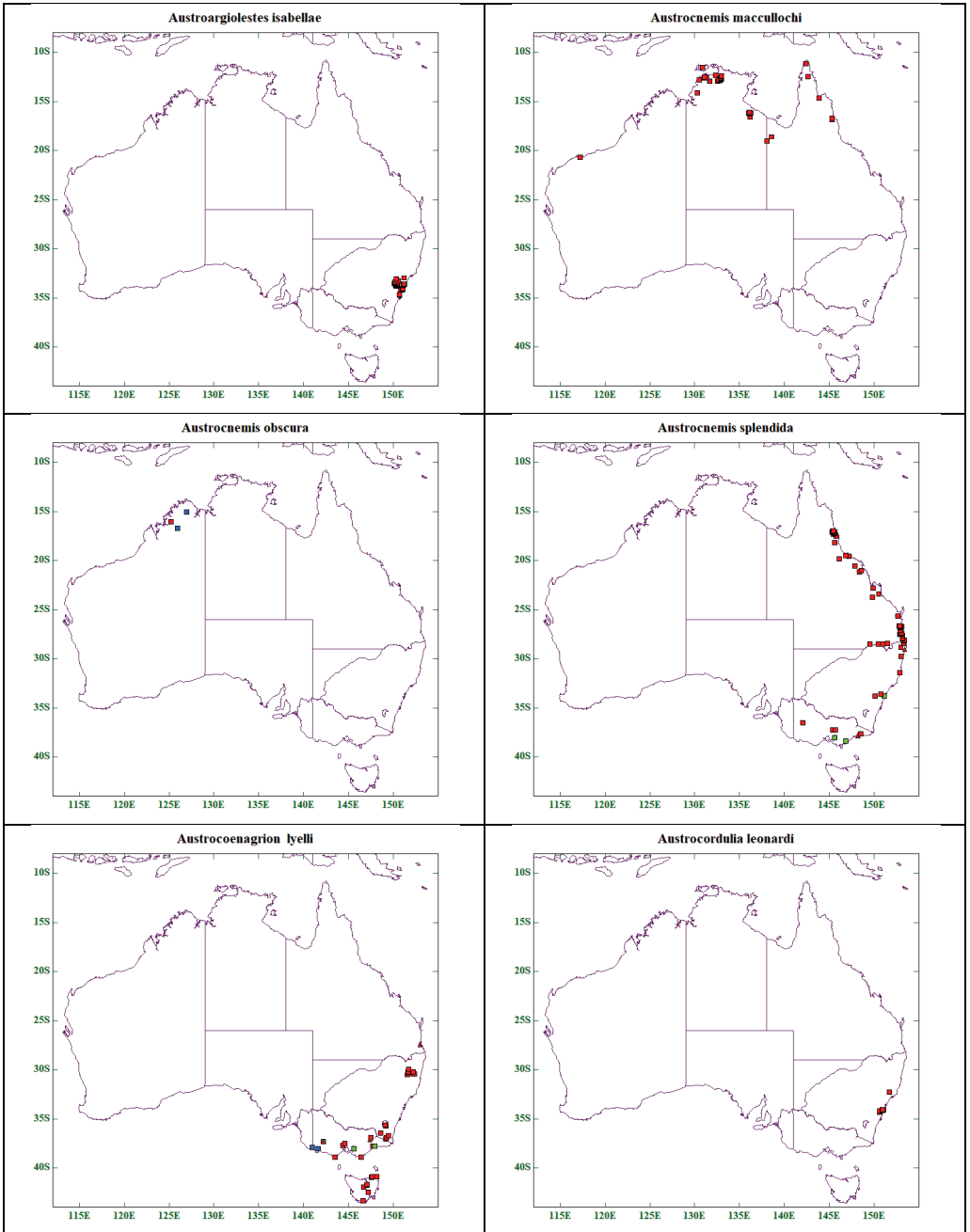


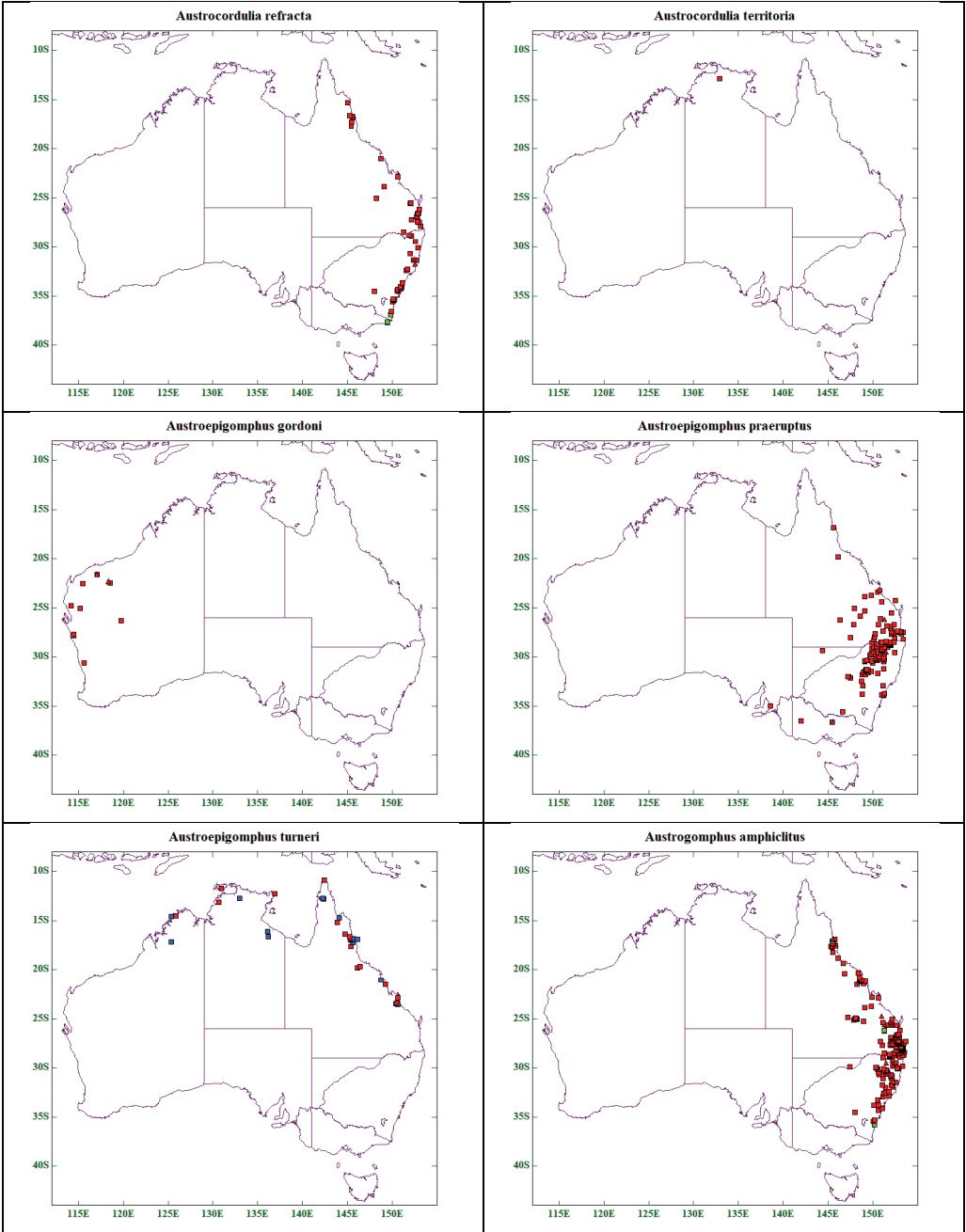


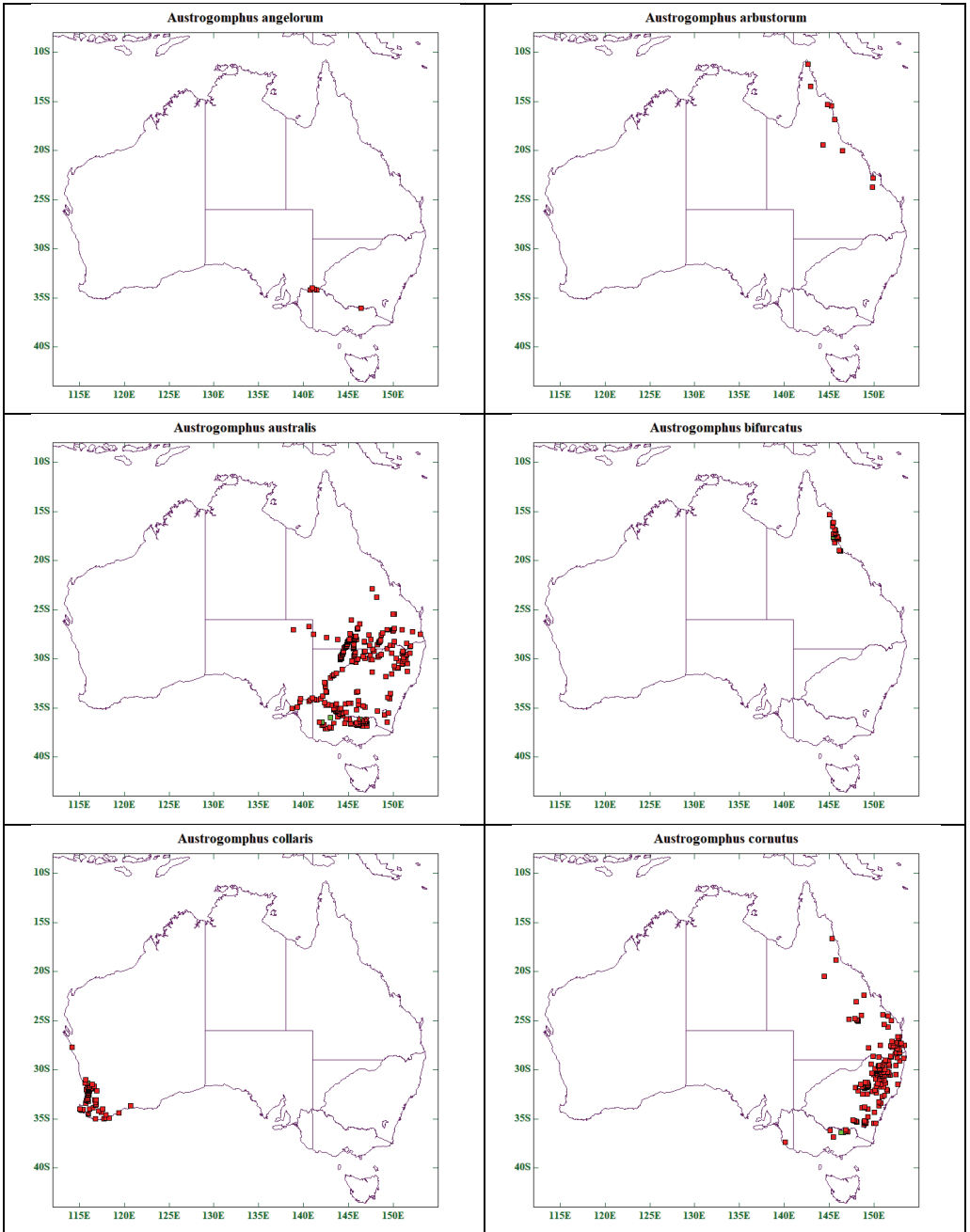


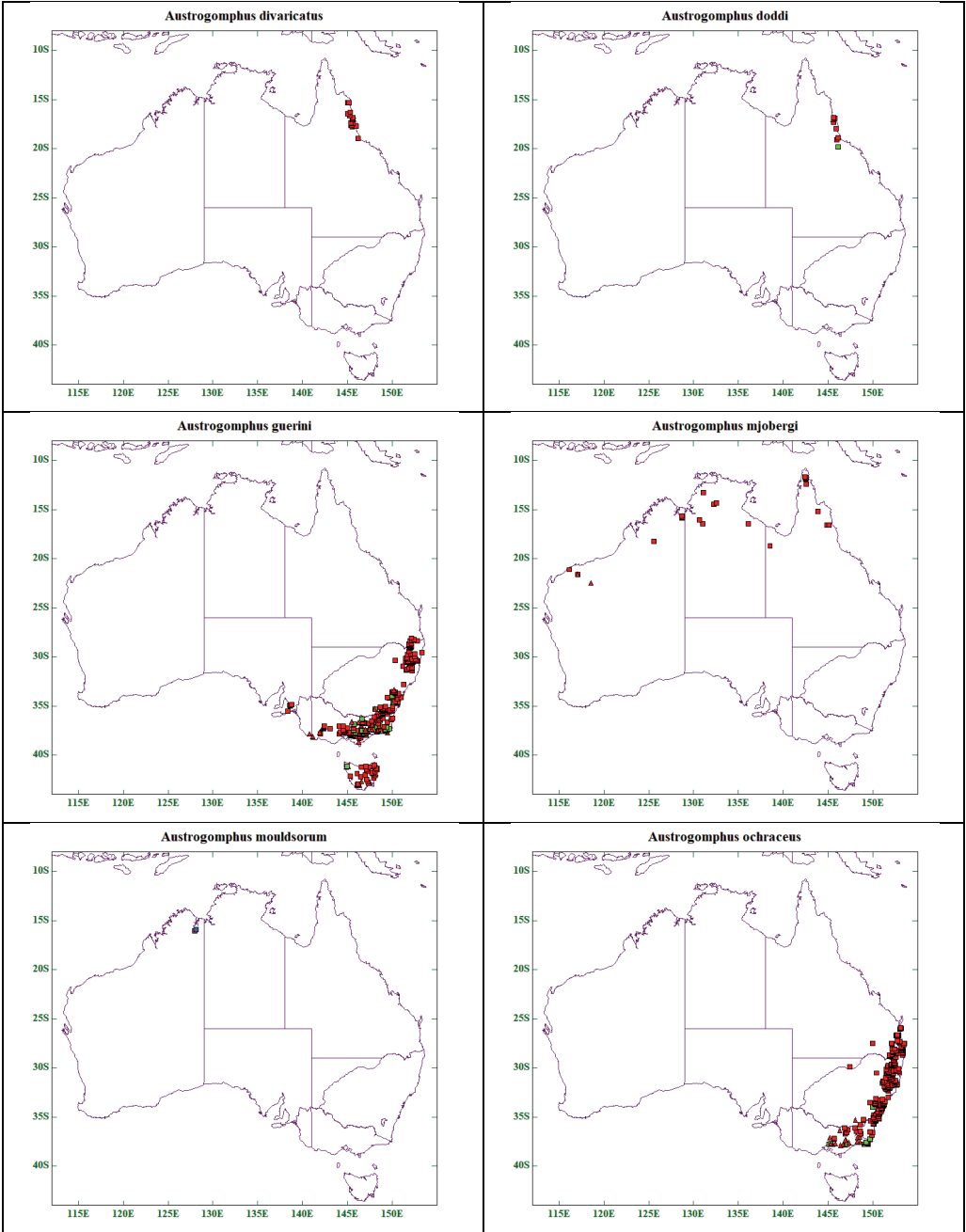


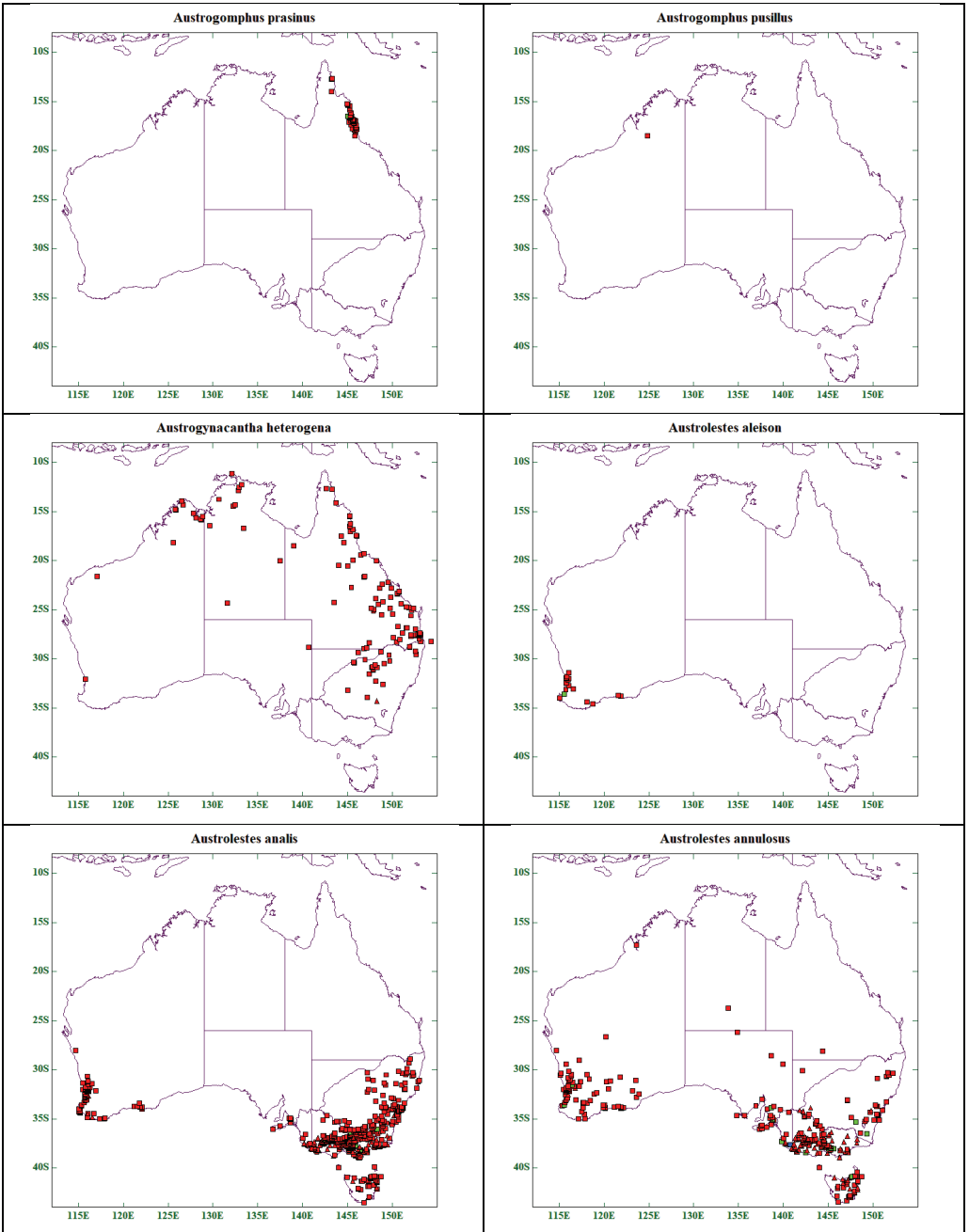


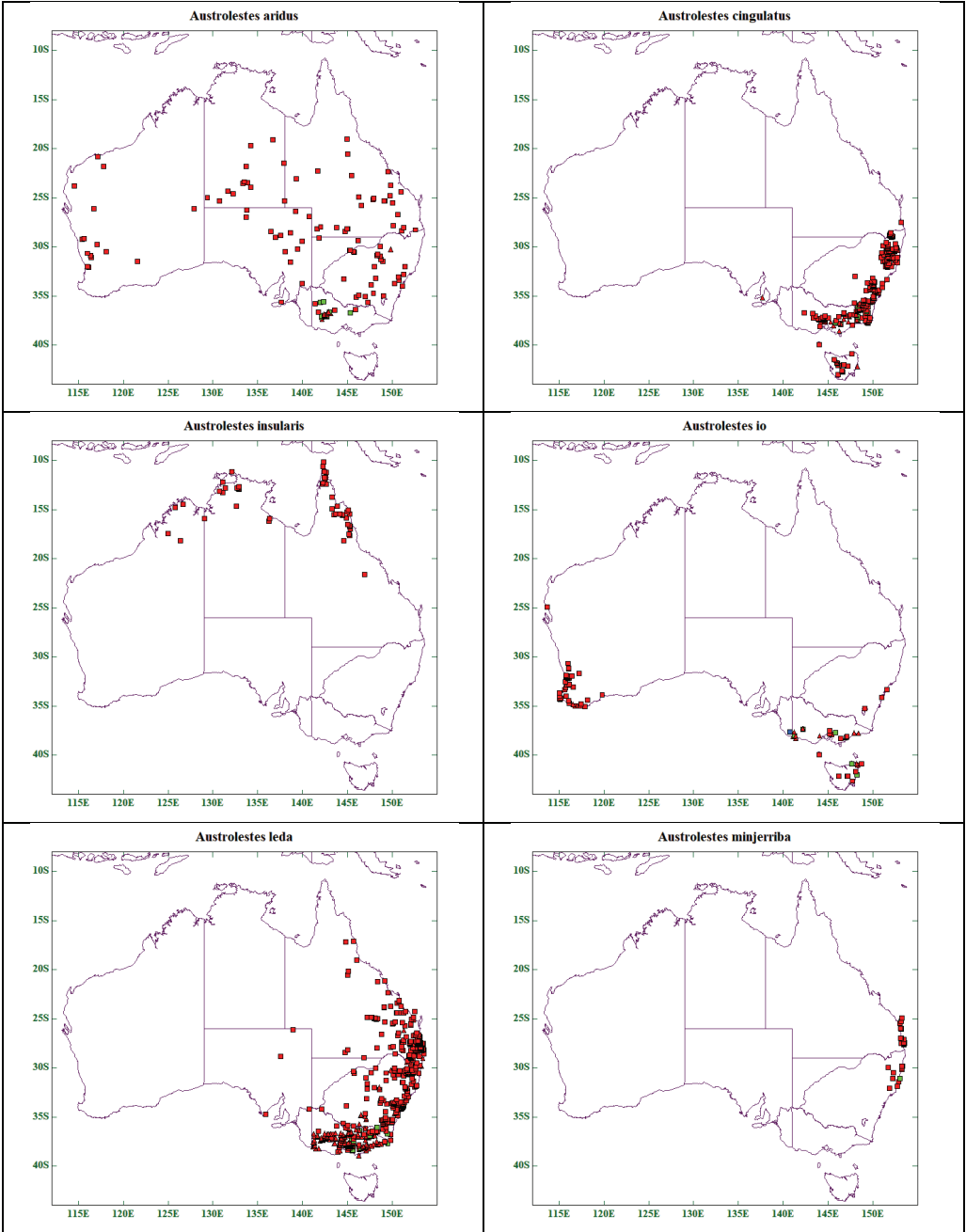


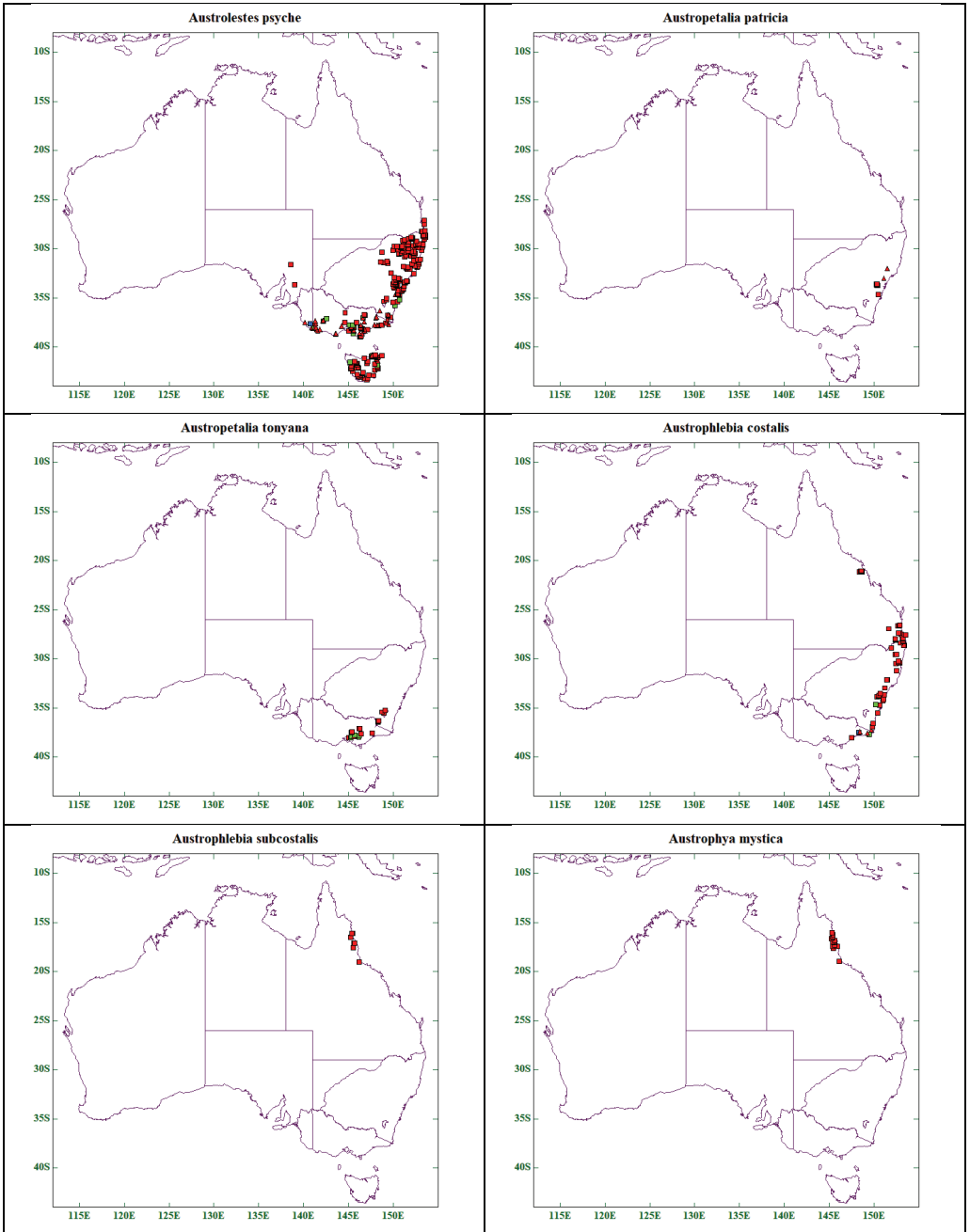


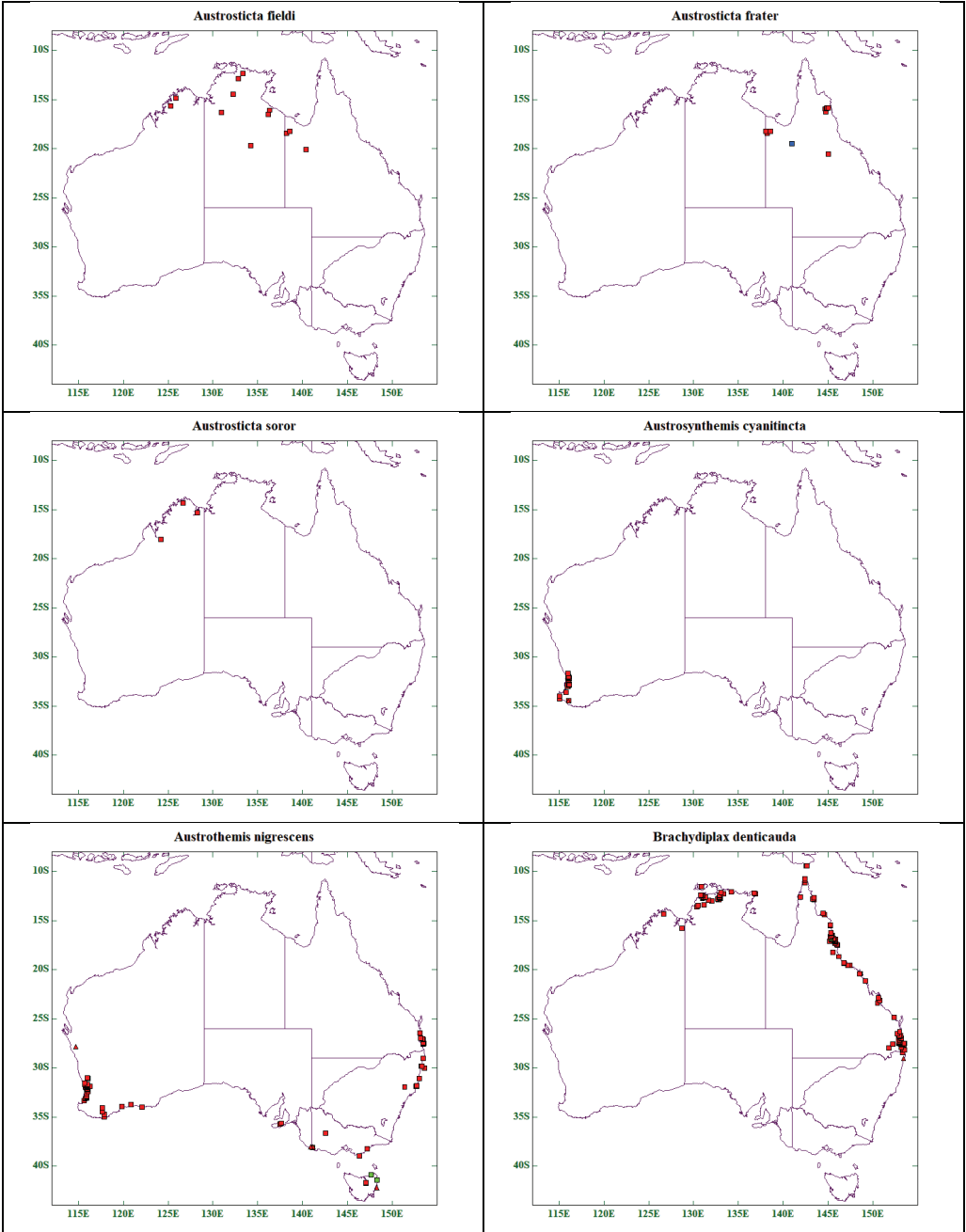


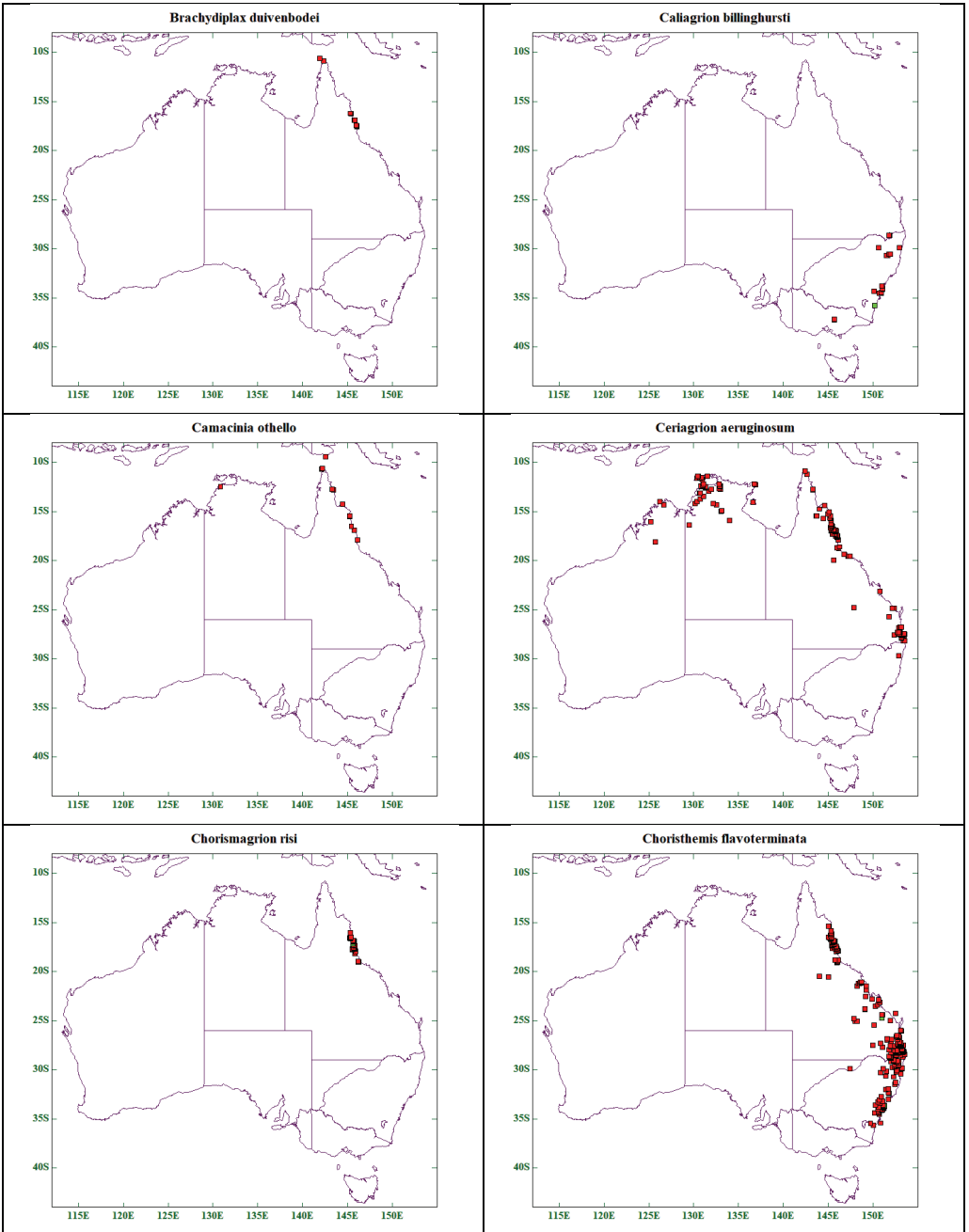


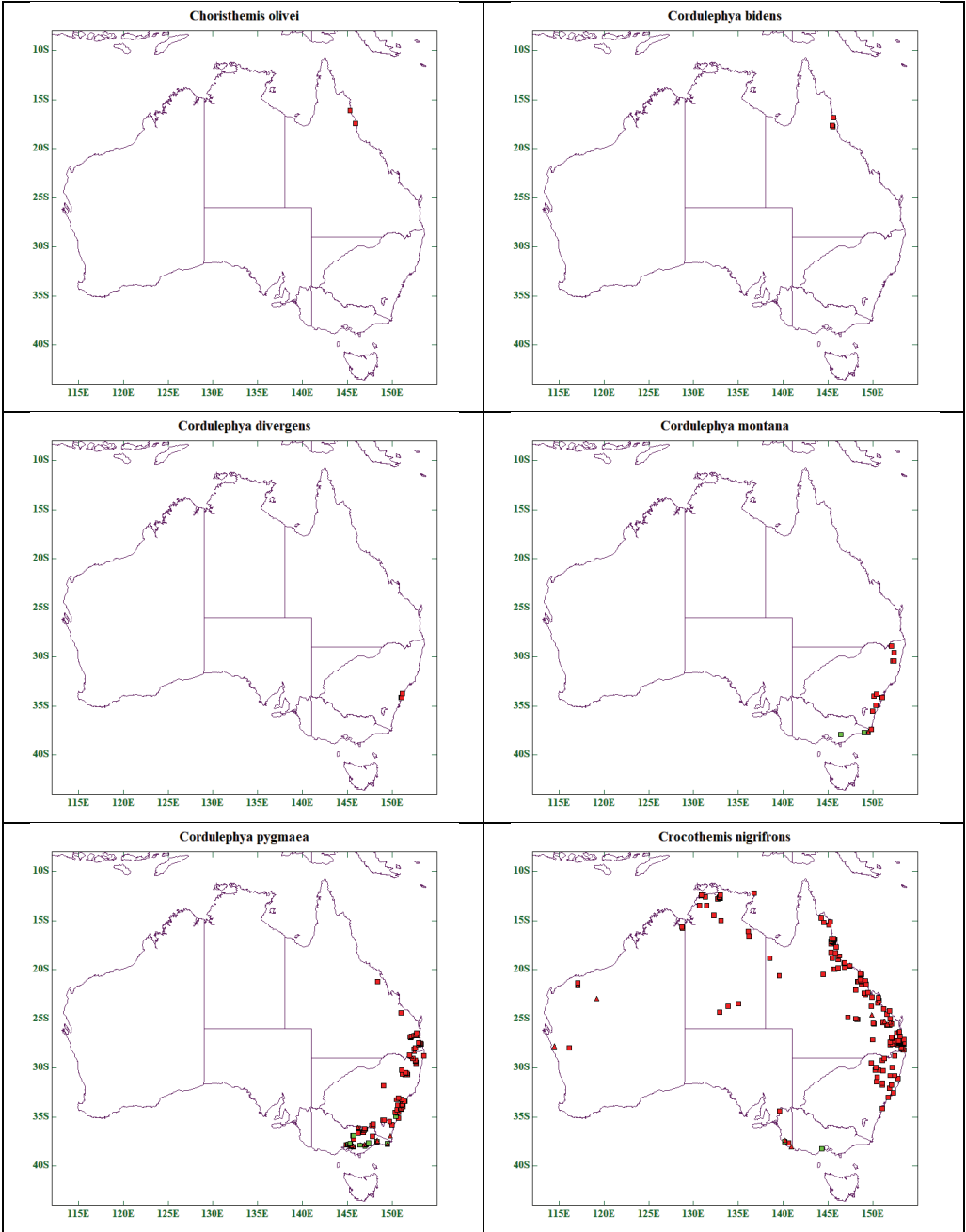


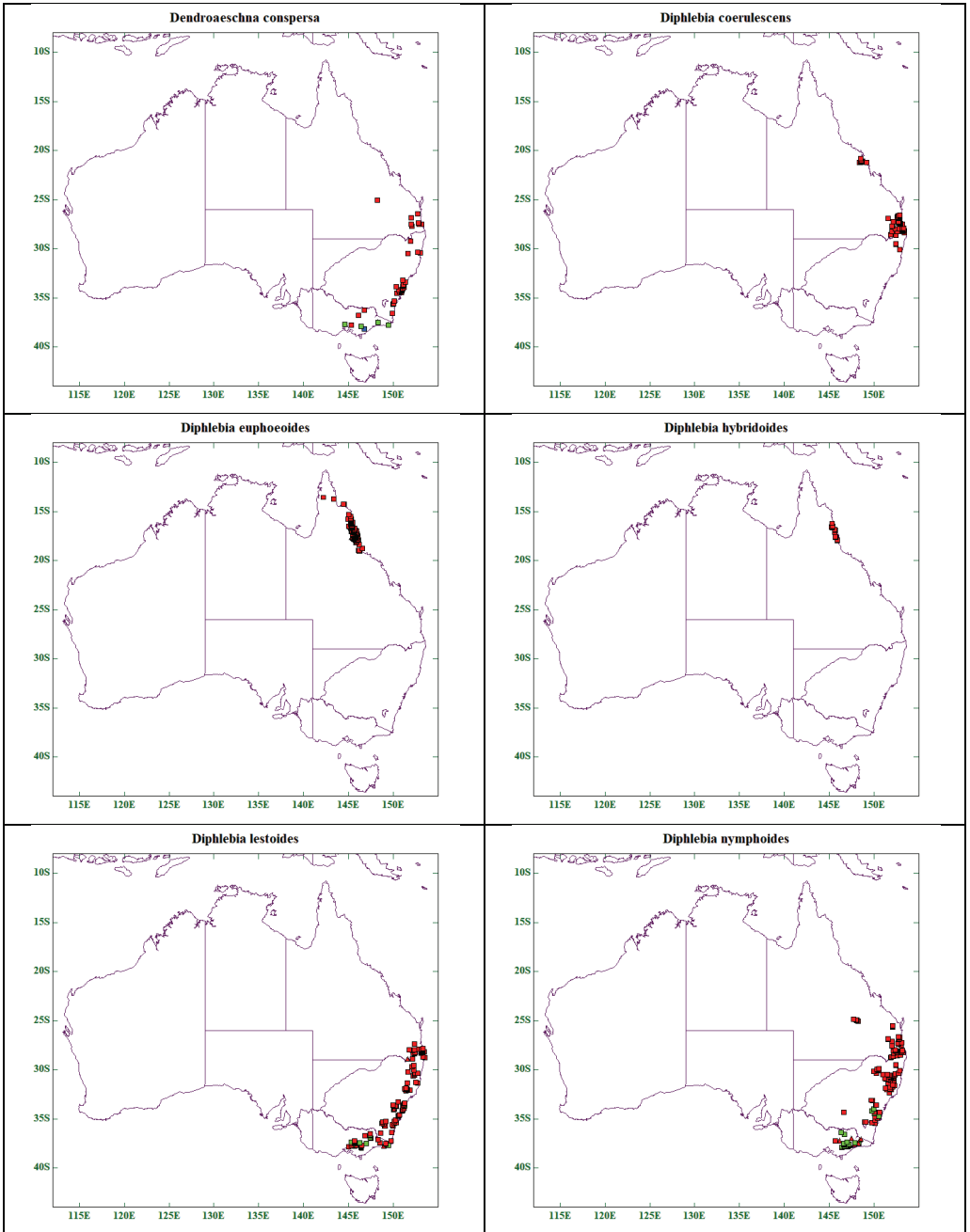


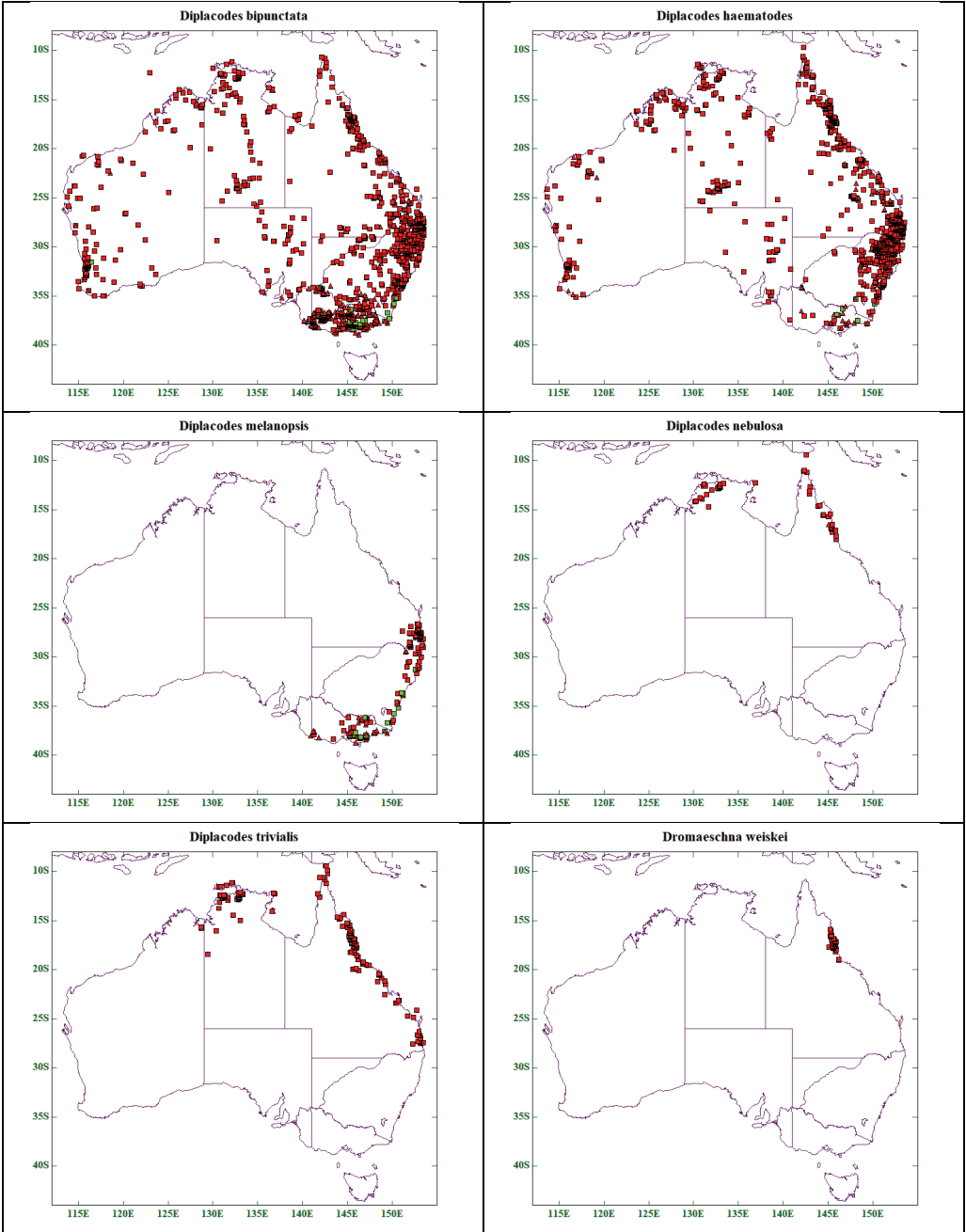


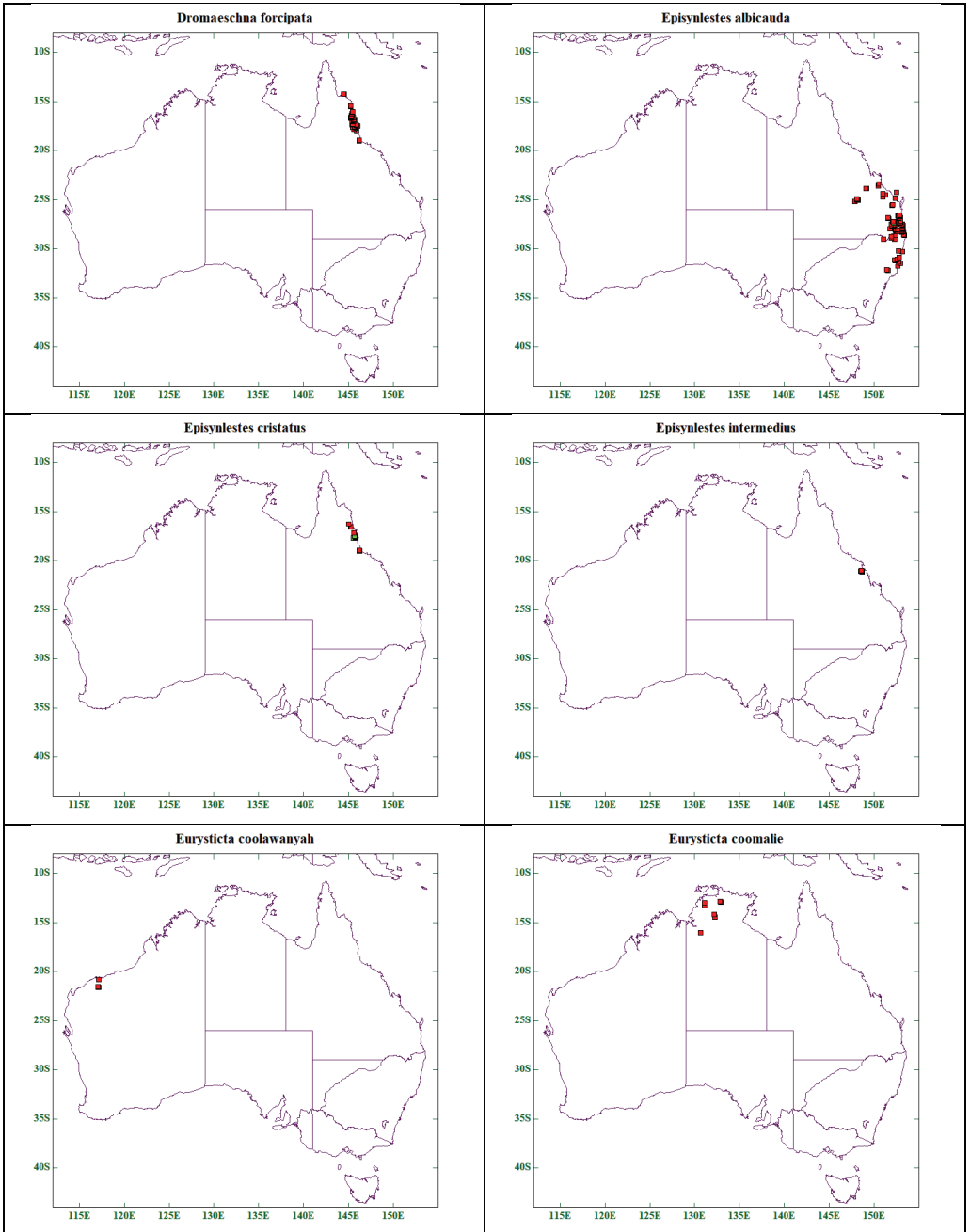


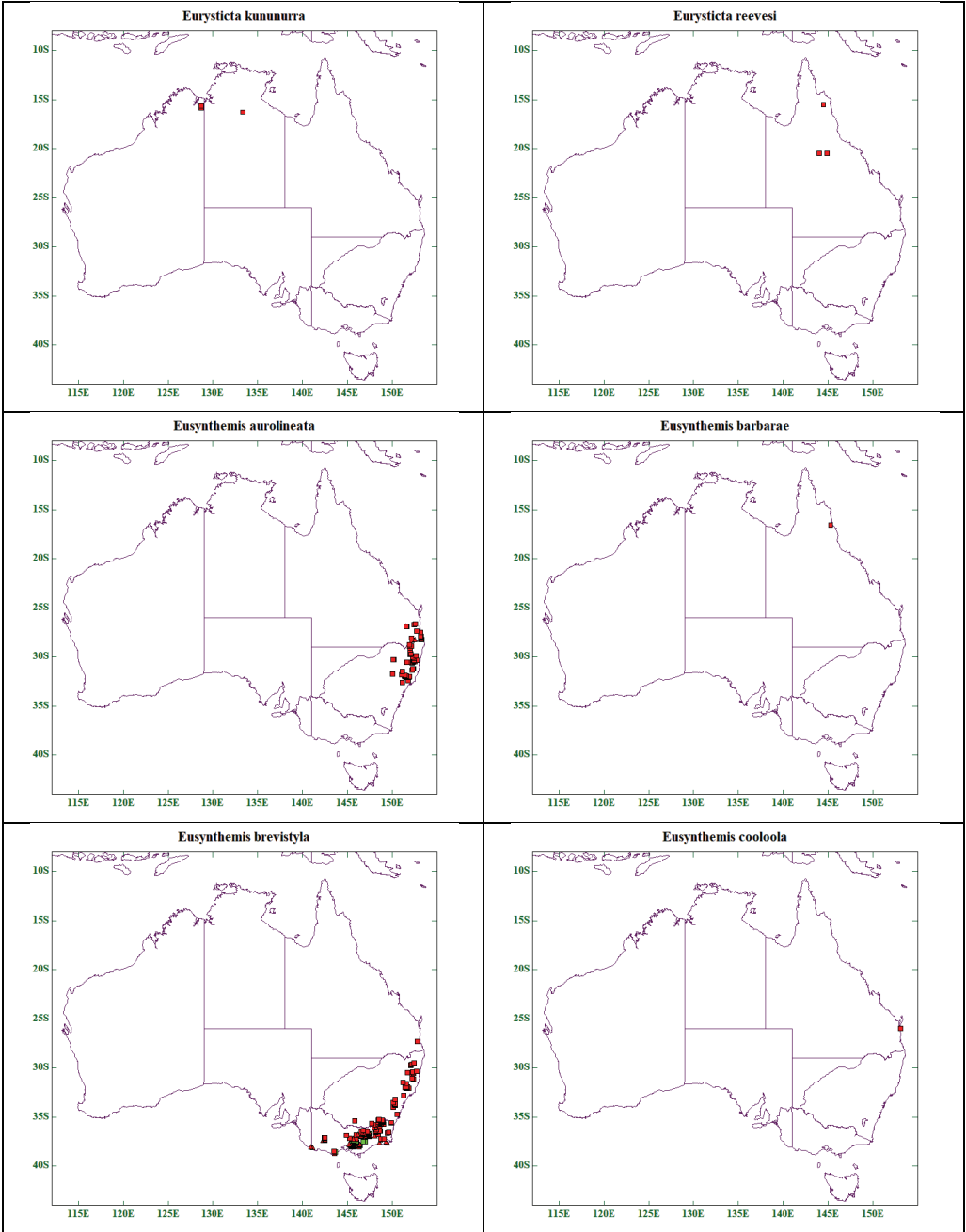


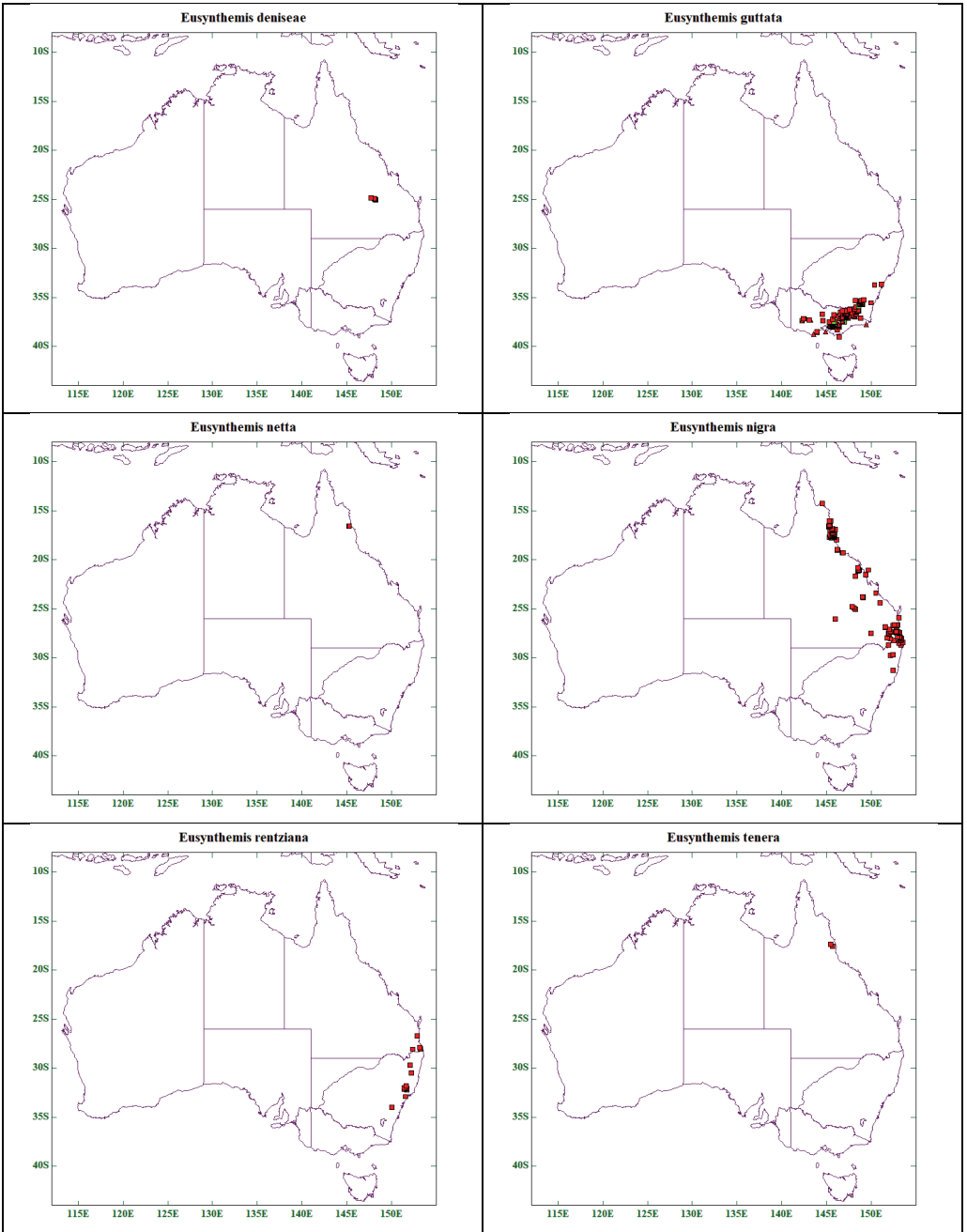


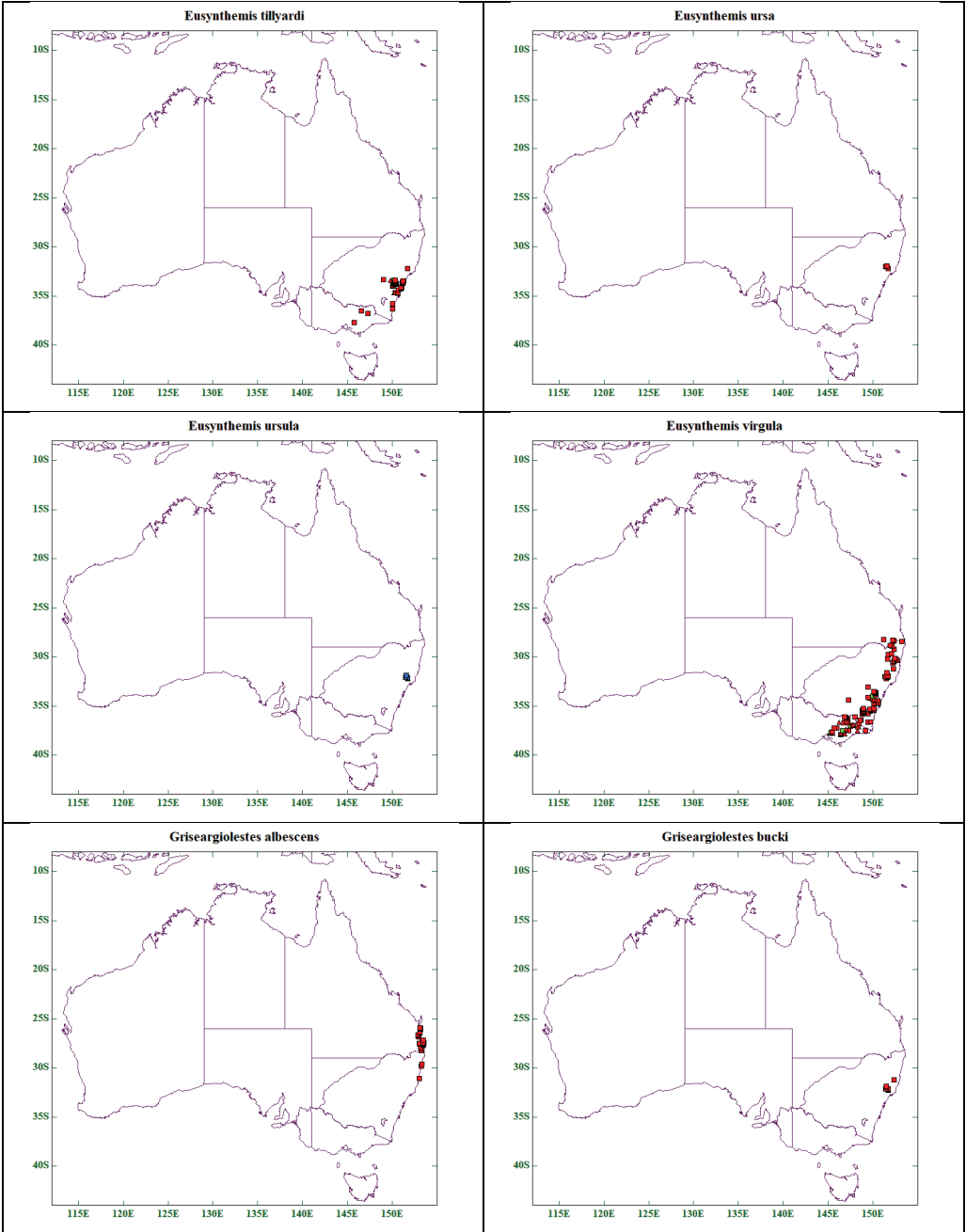


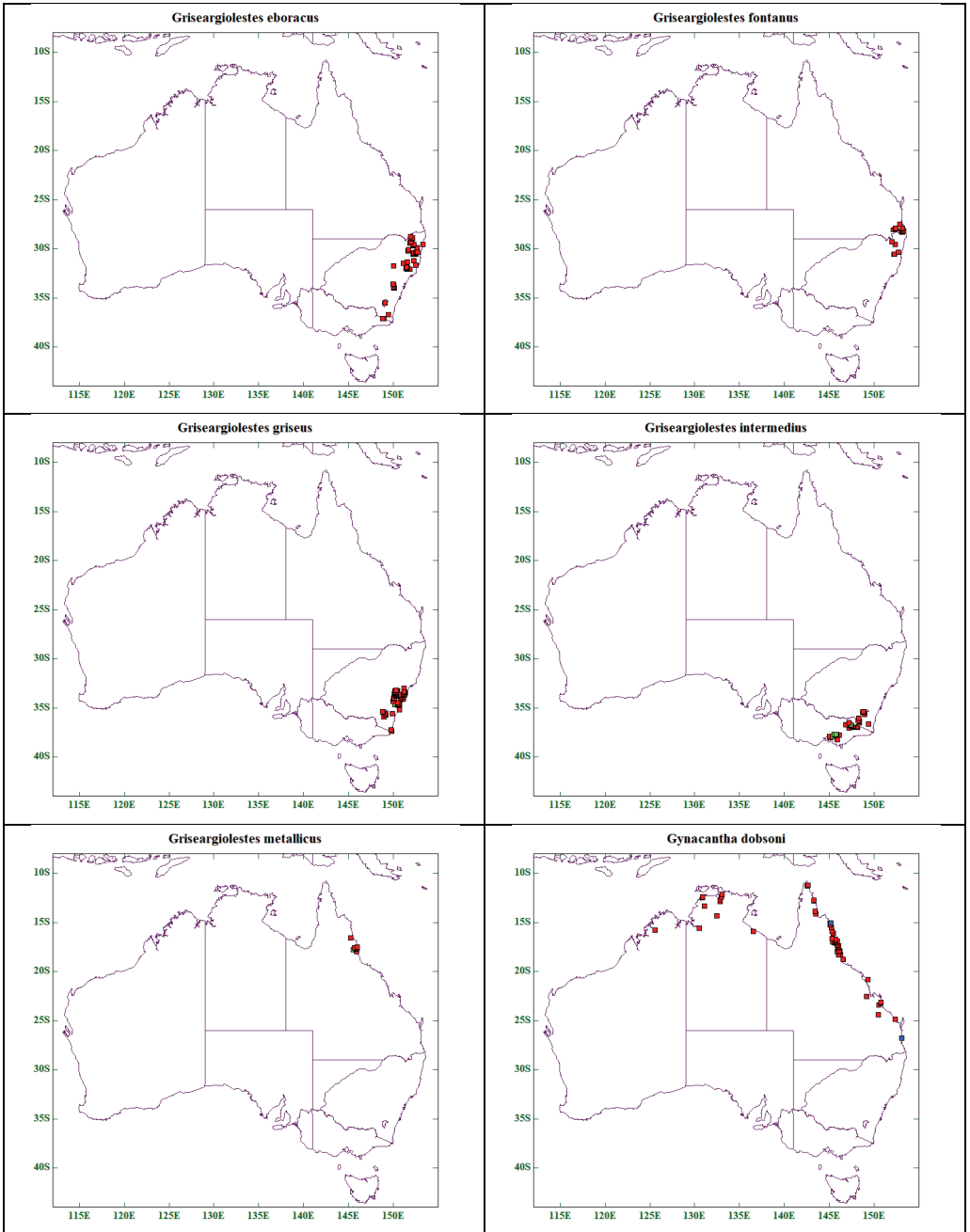


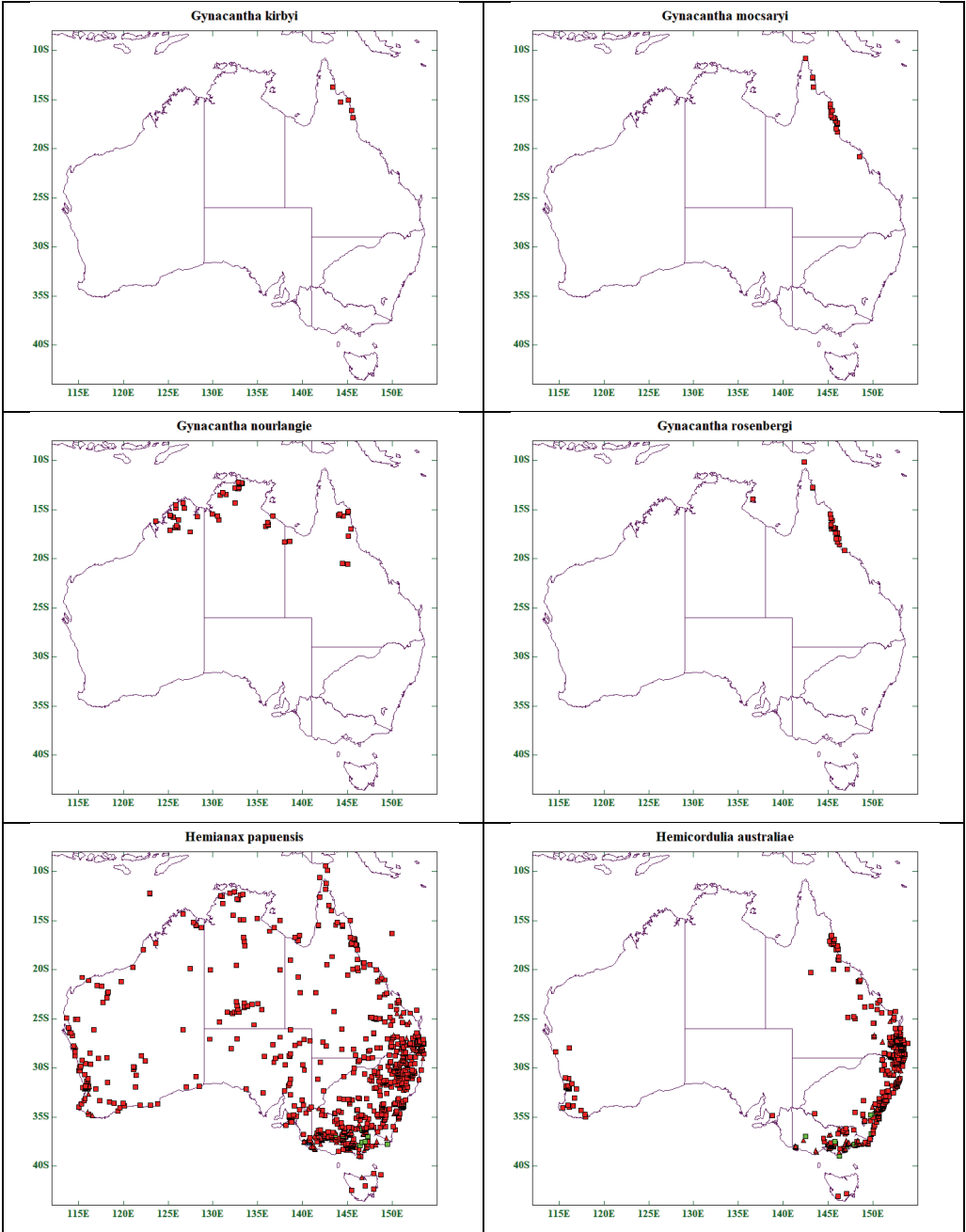


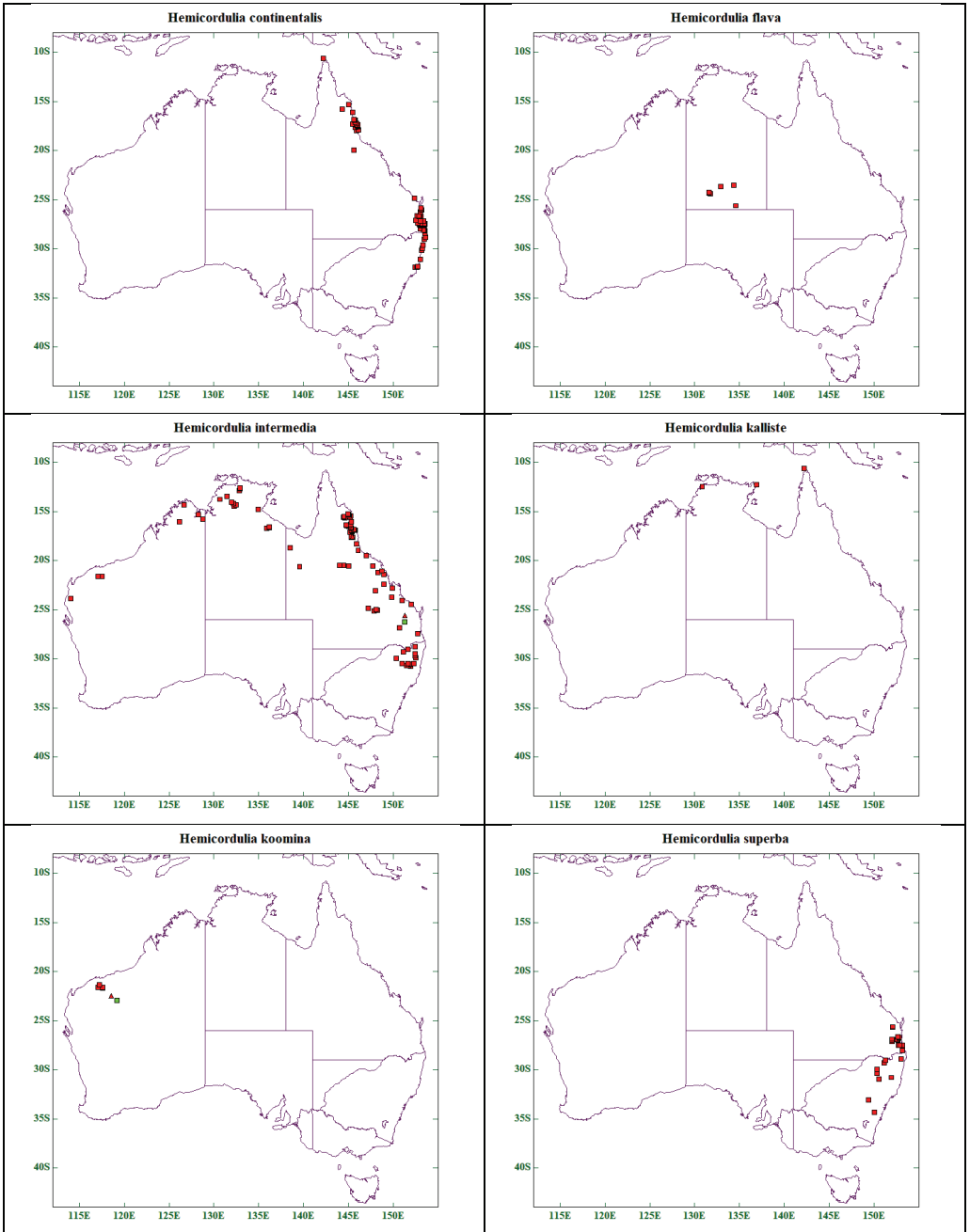


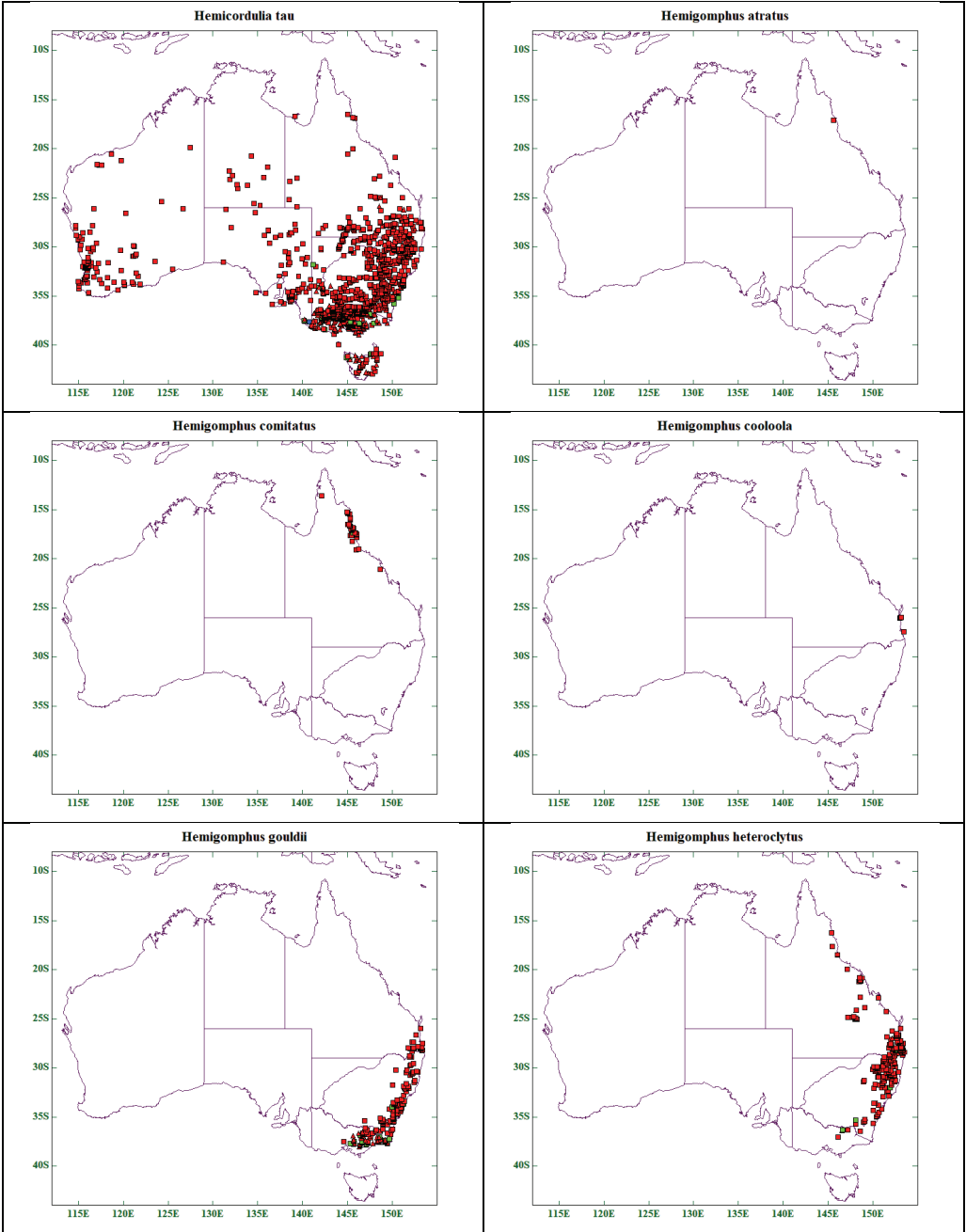


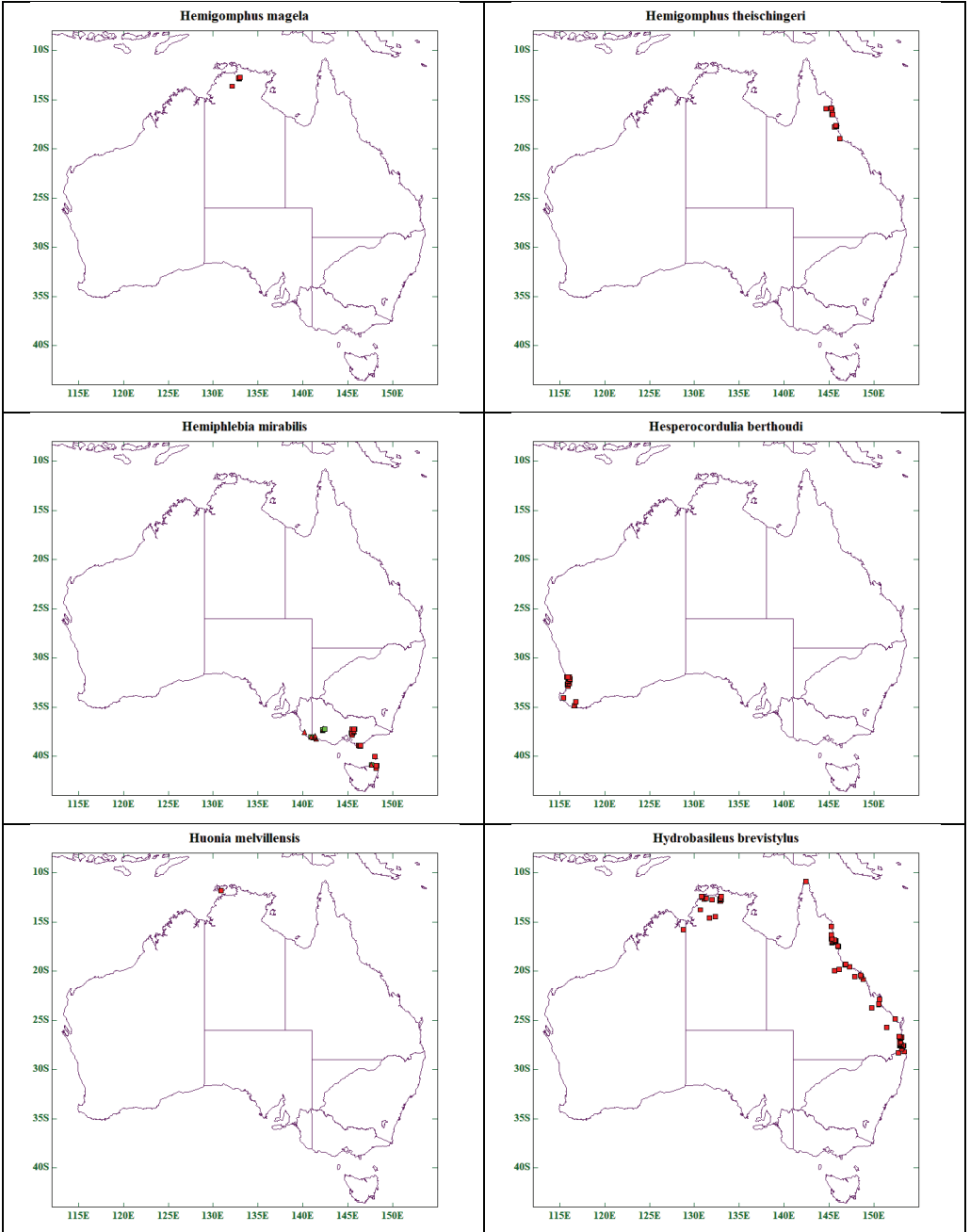


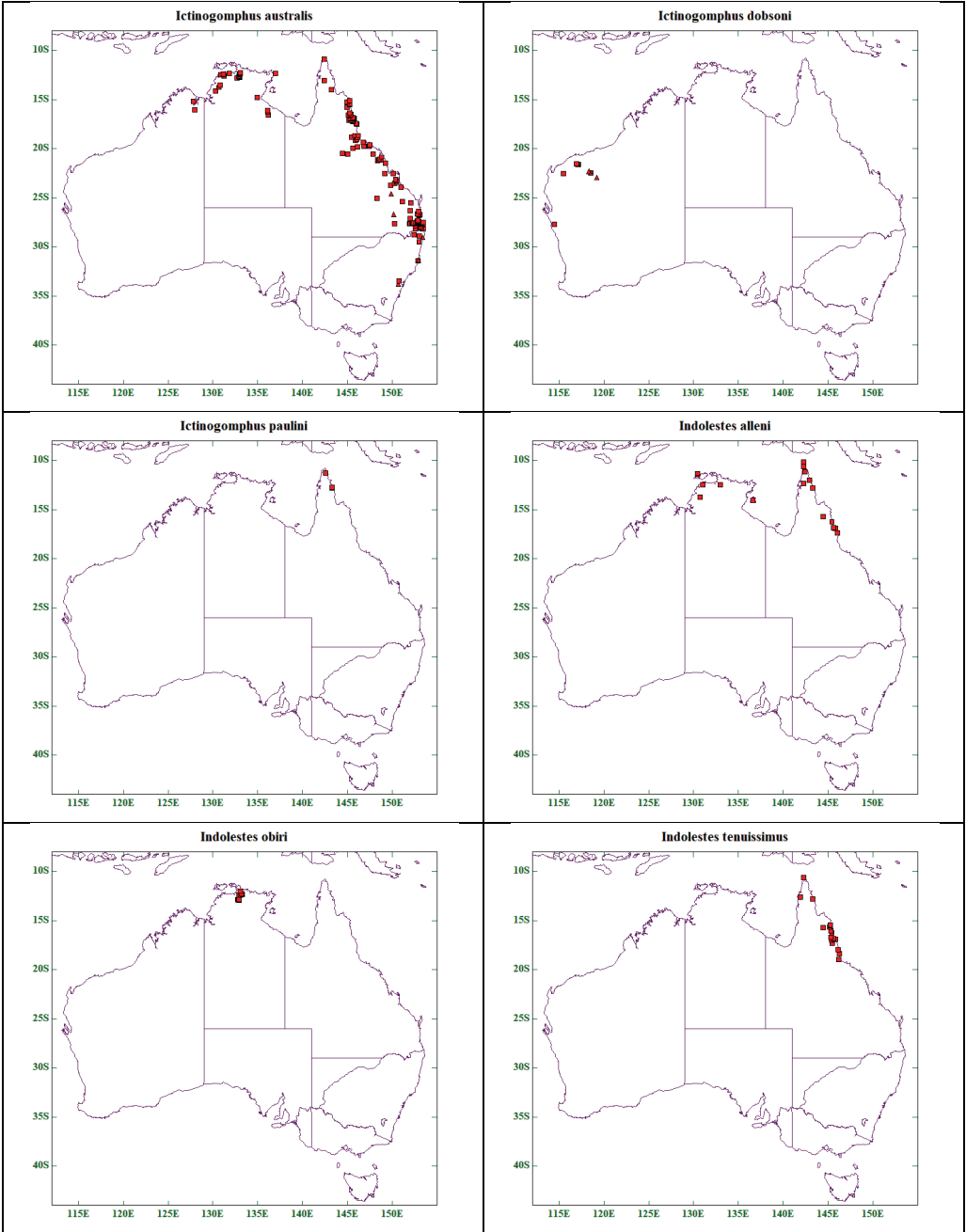


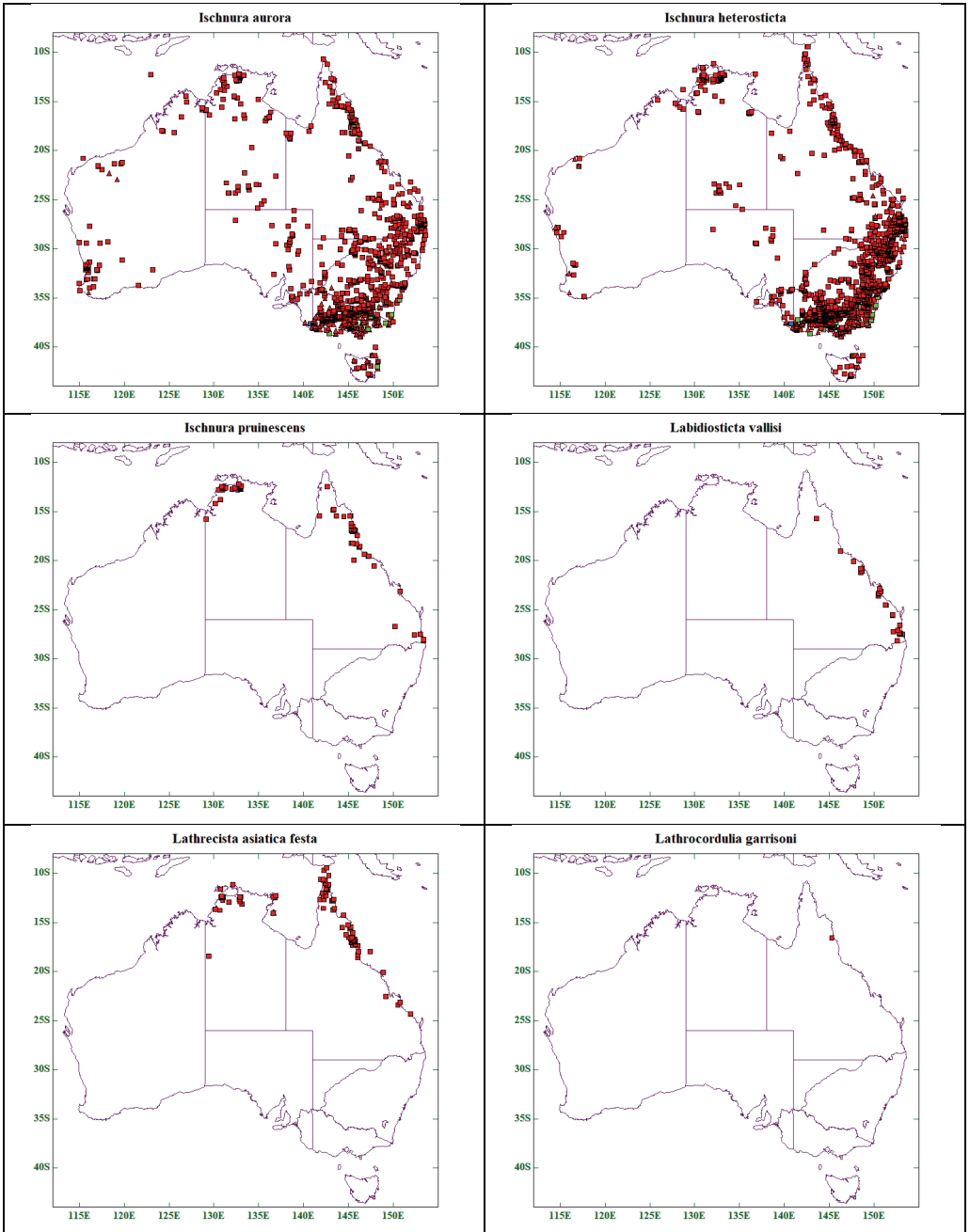


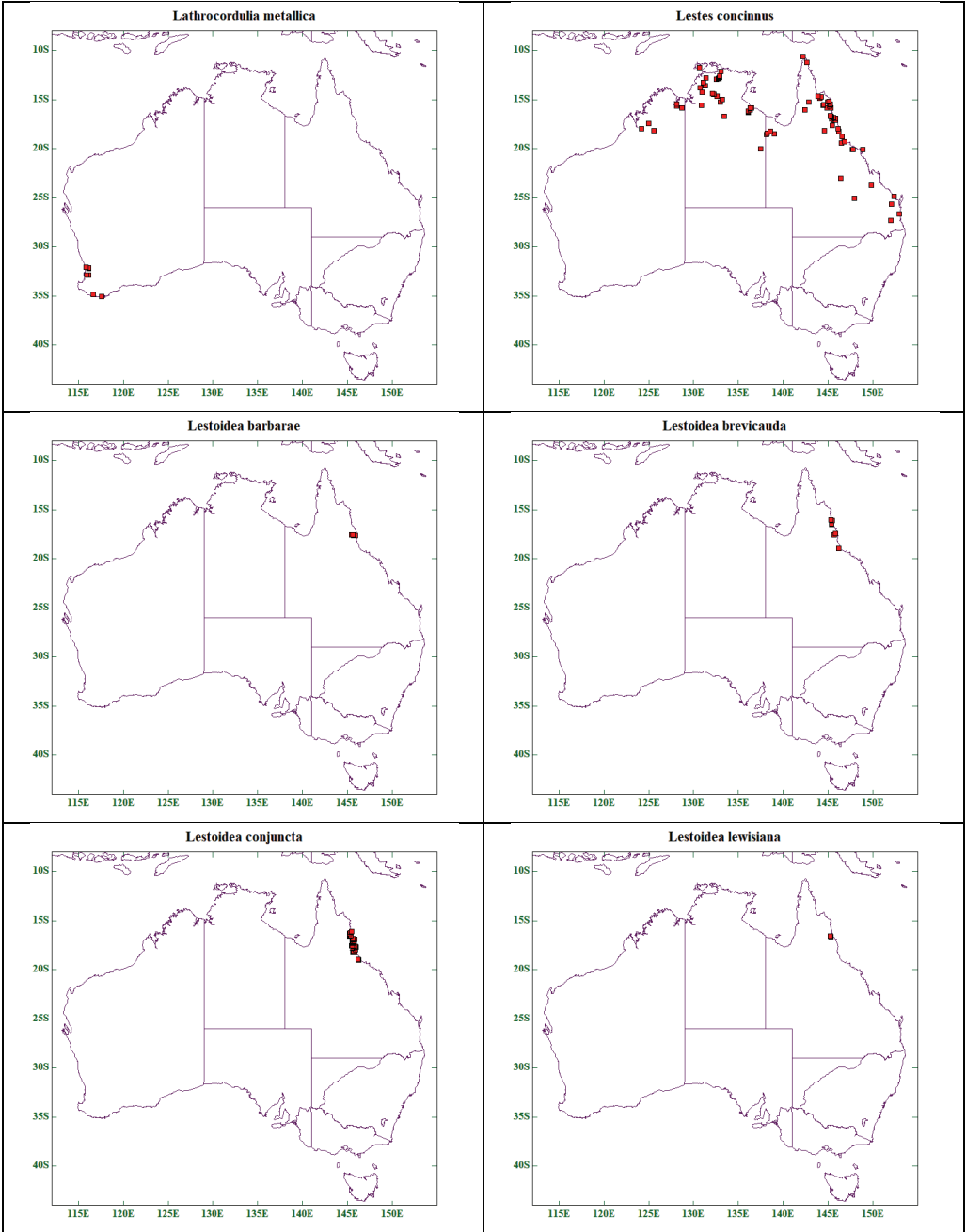




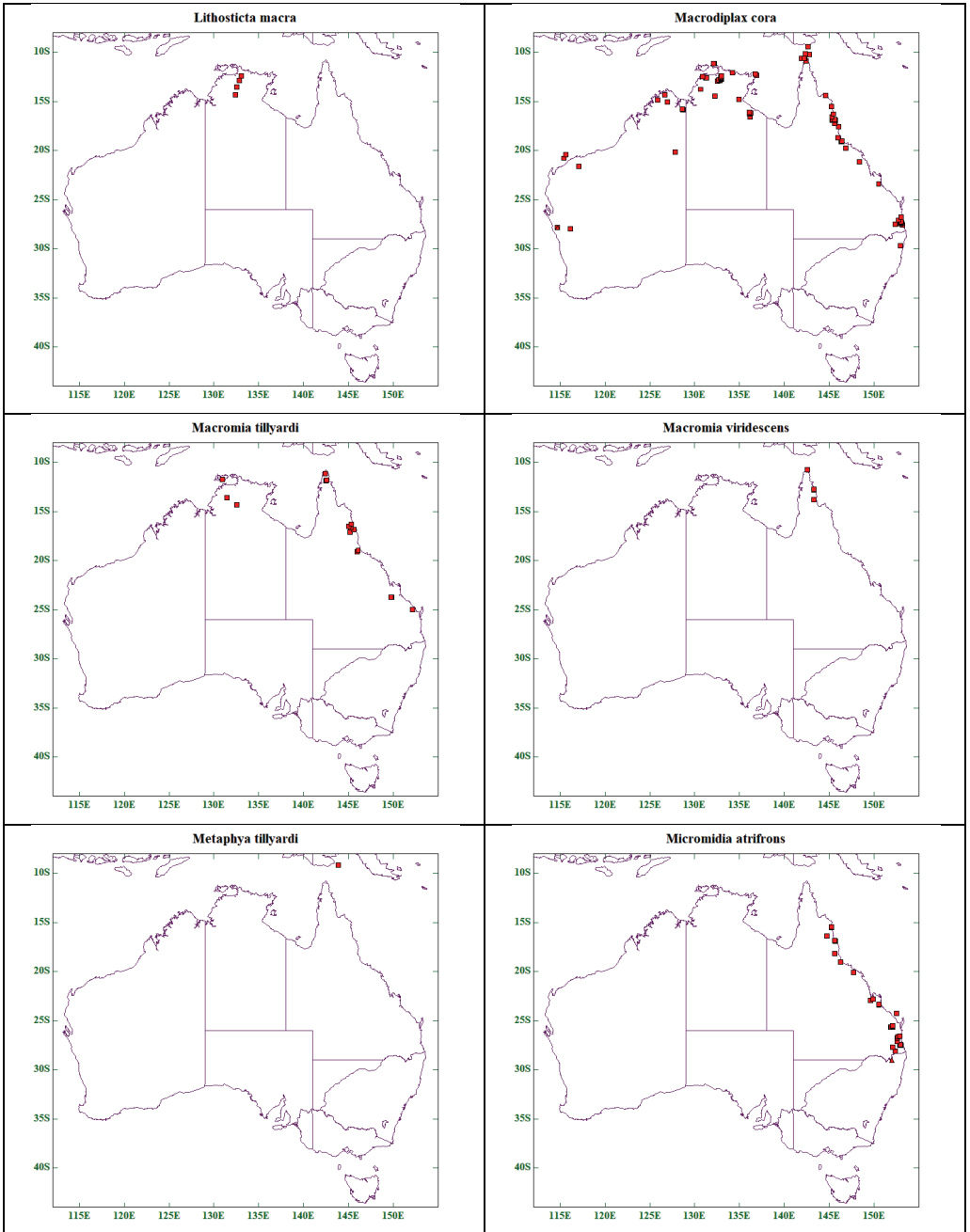


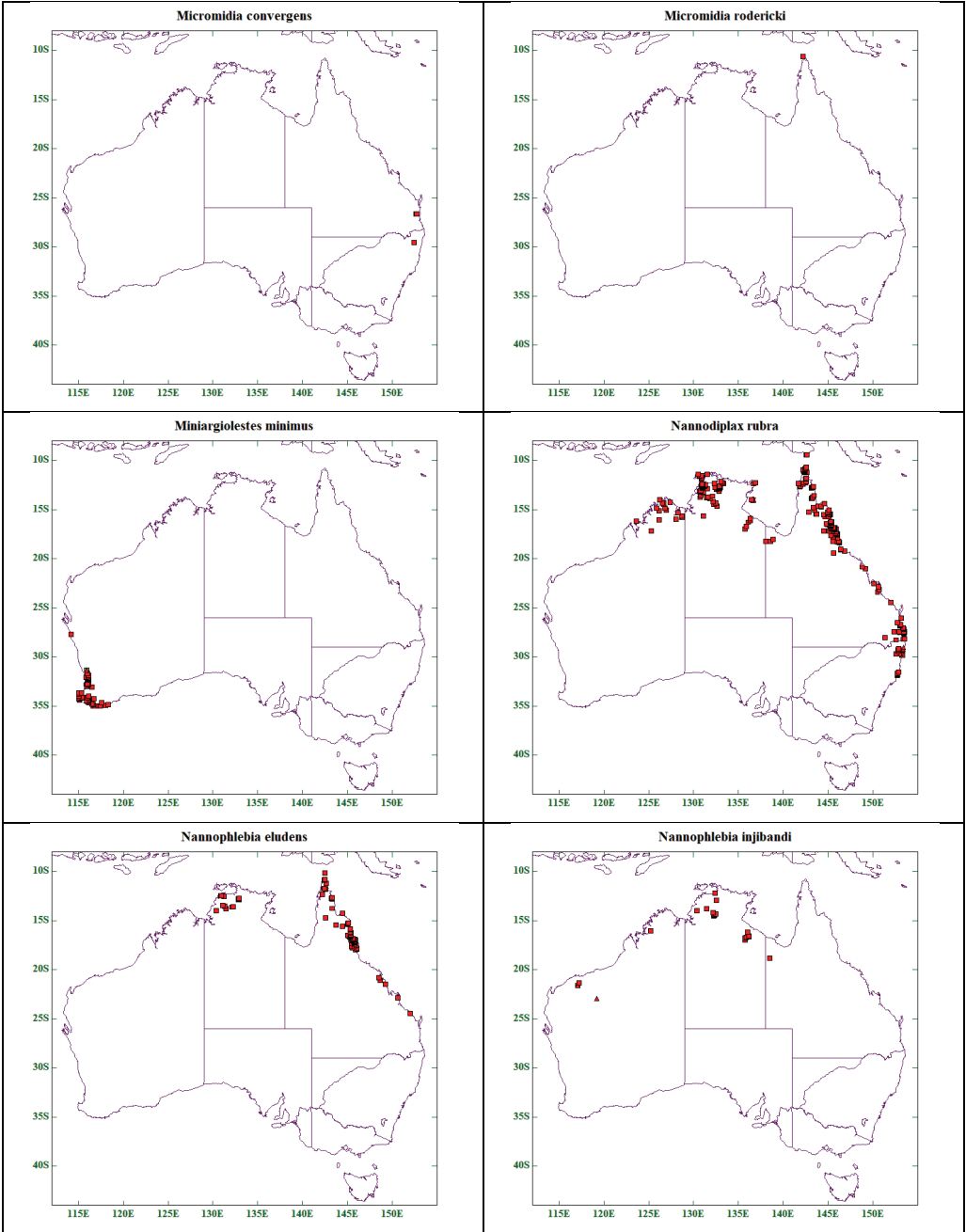


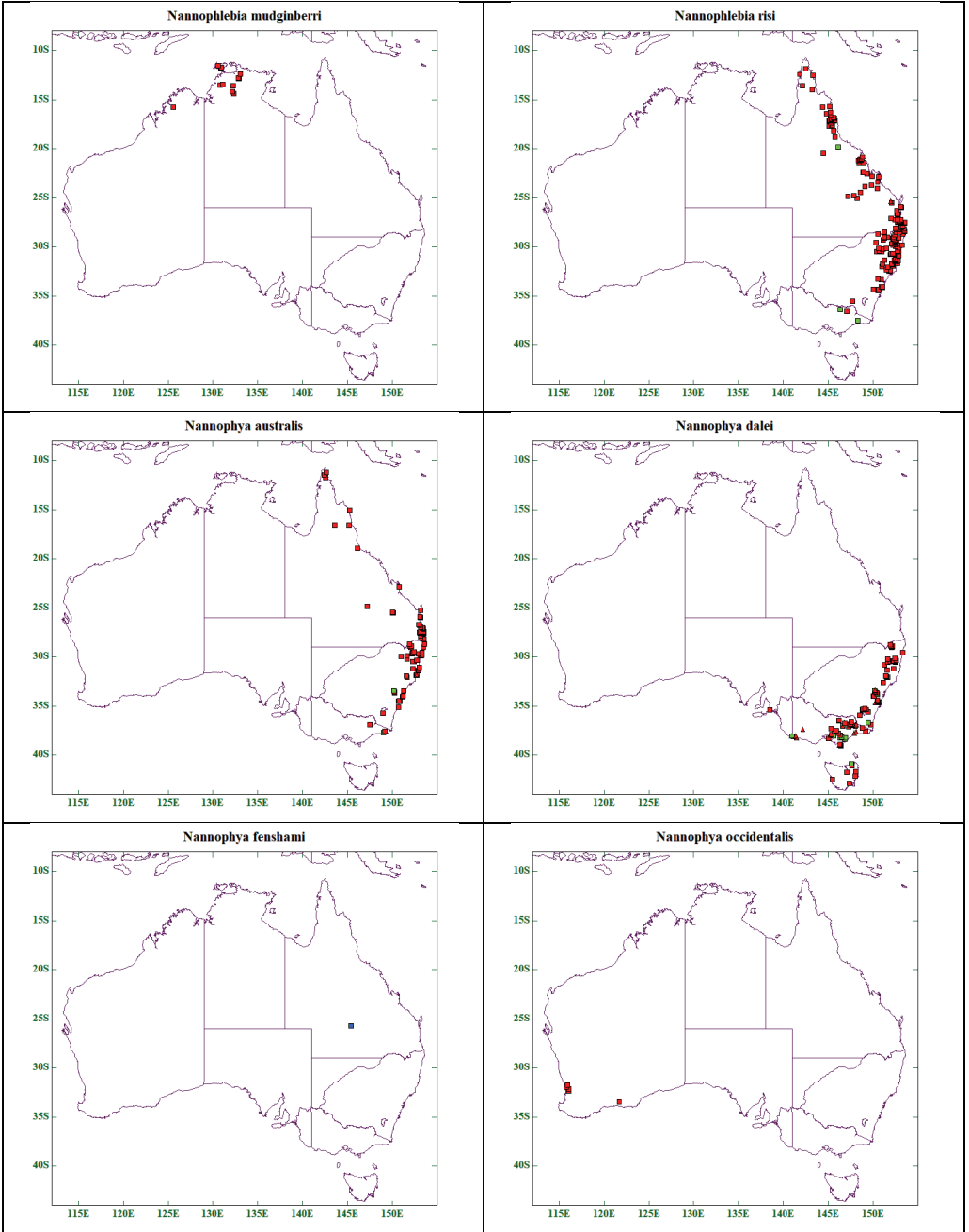


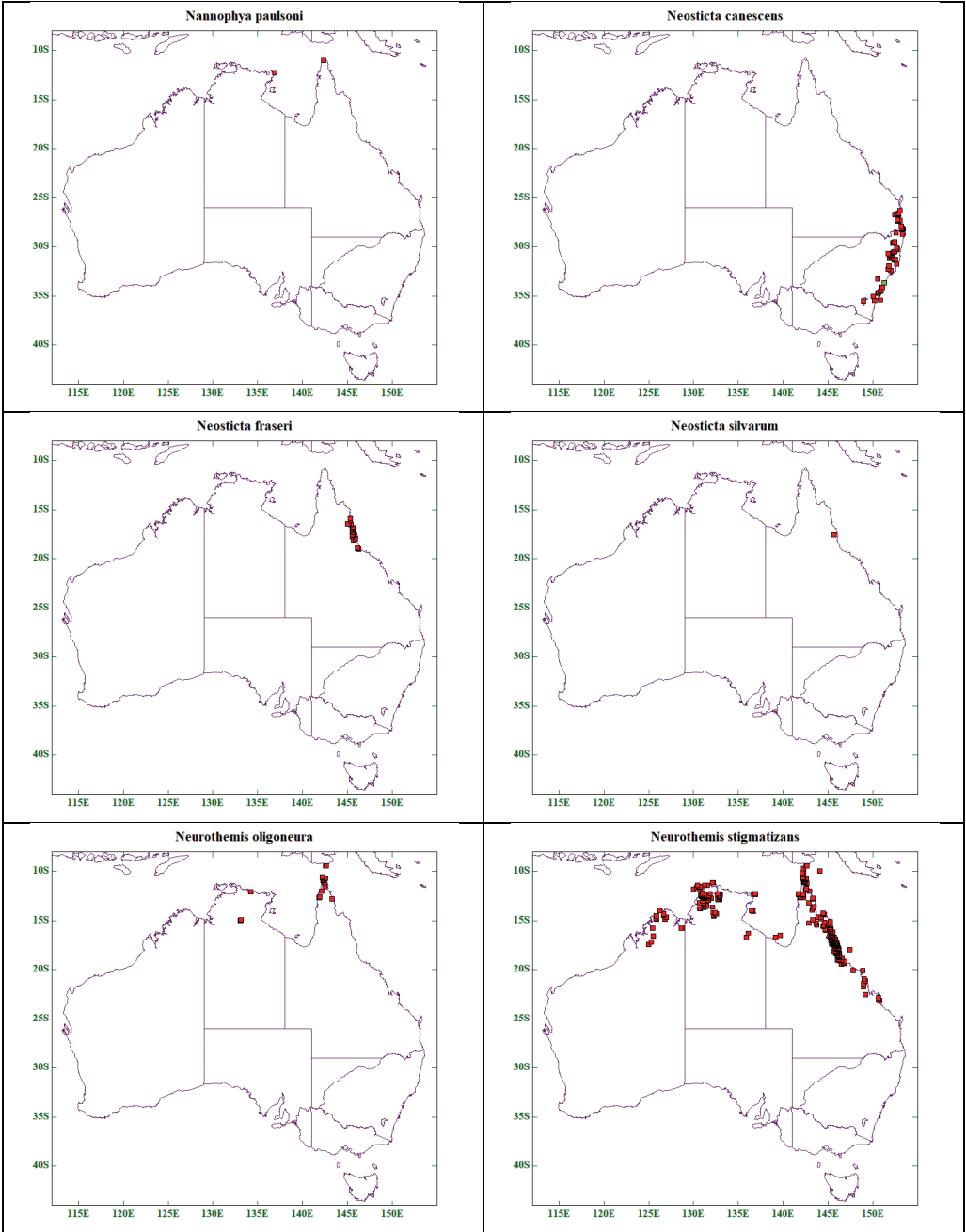


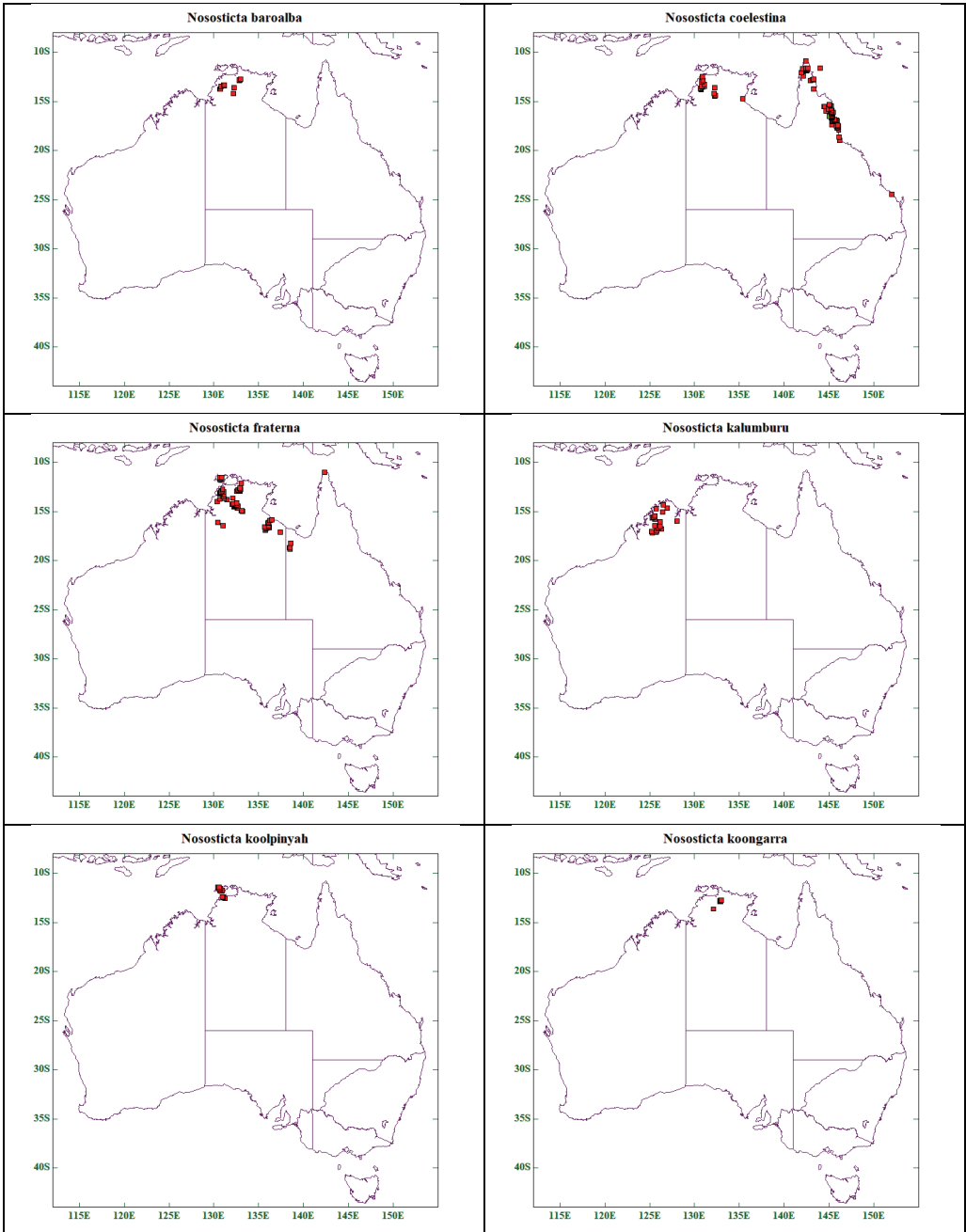
The Distribution of Australian Dragonflies

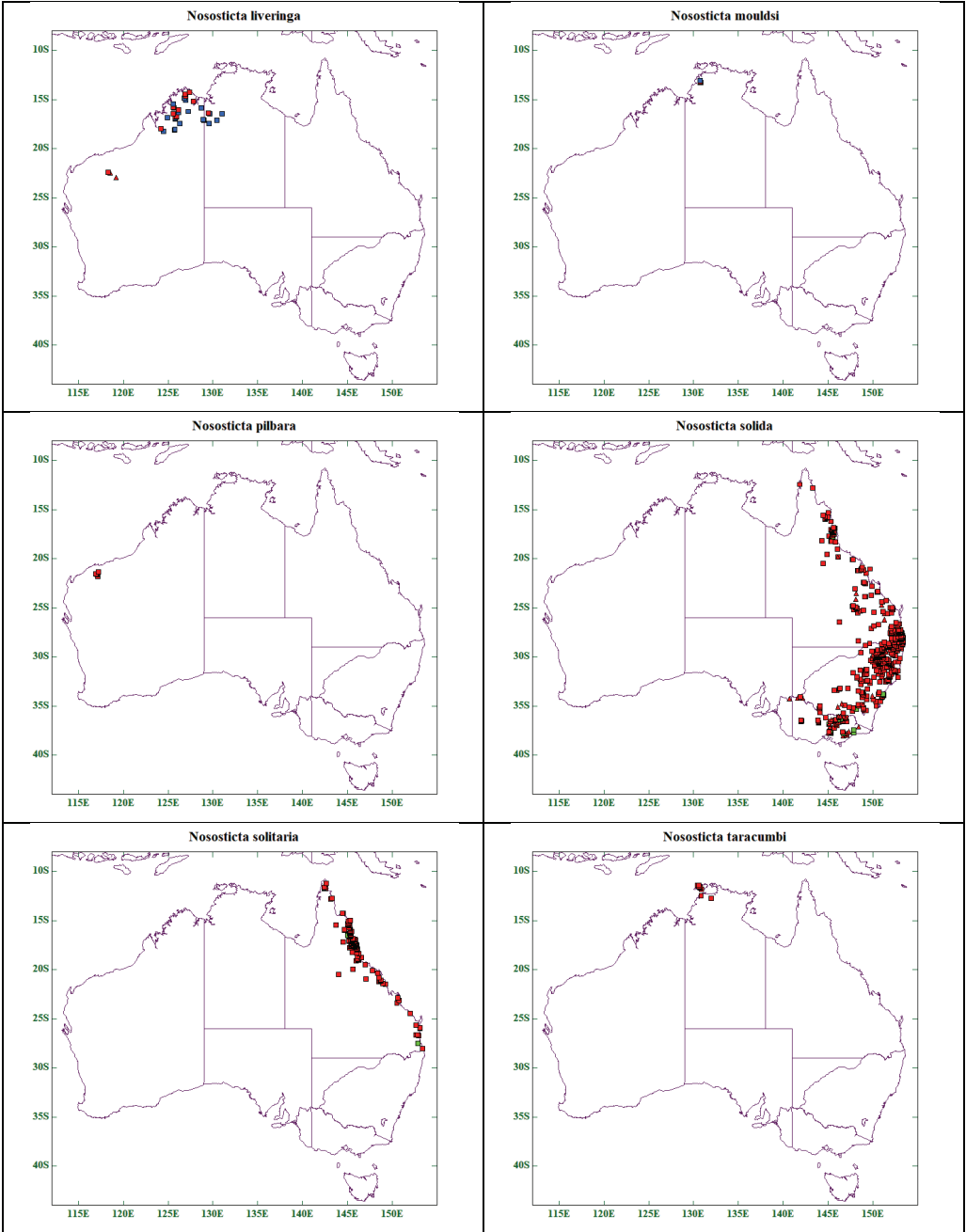


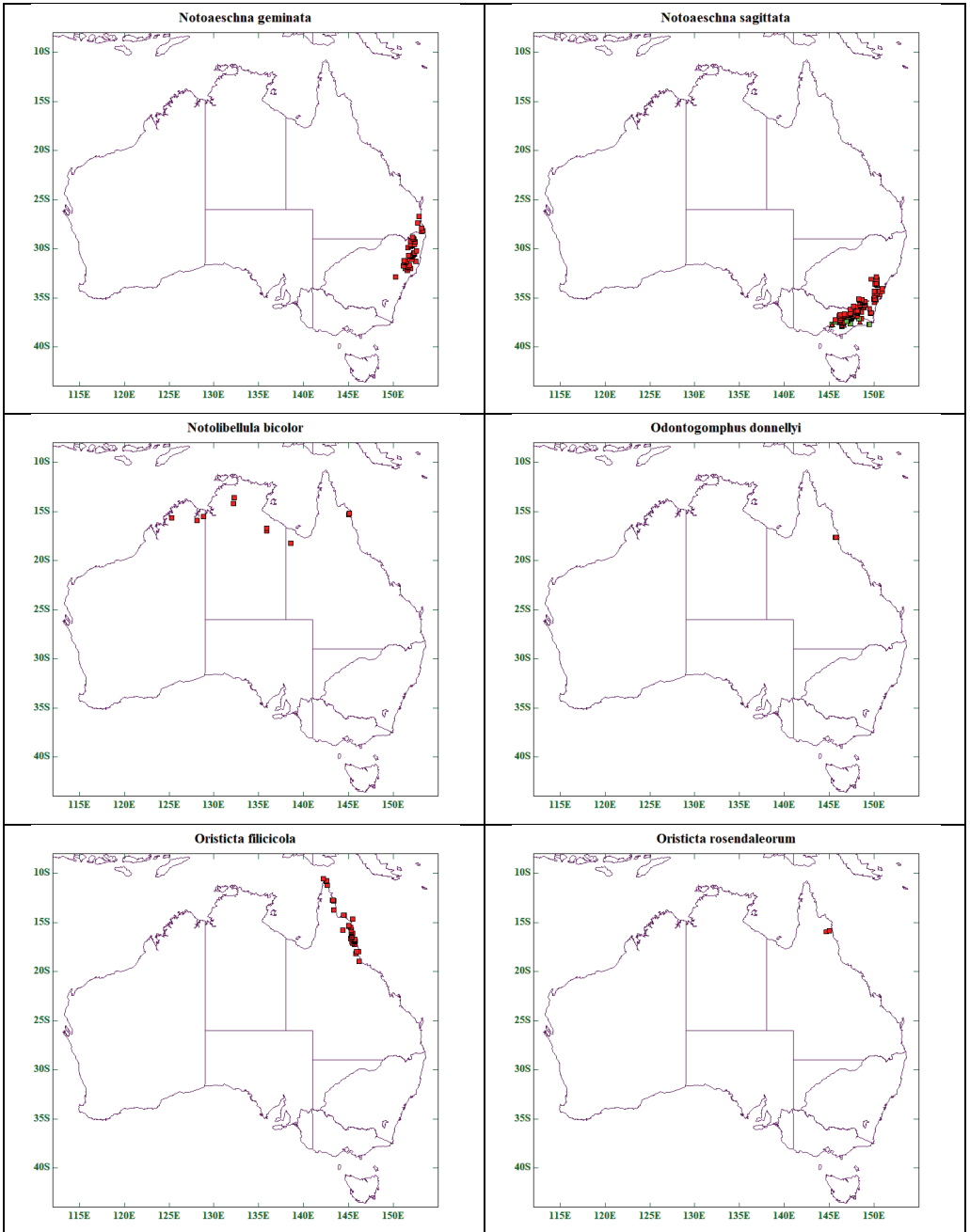


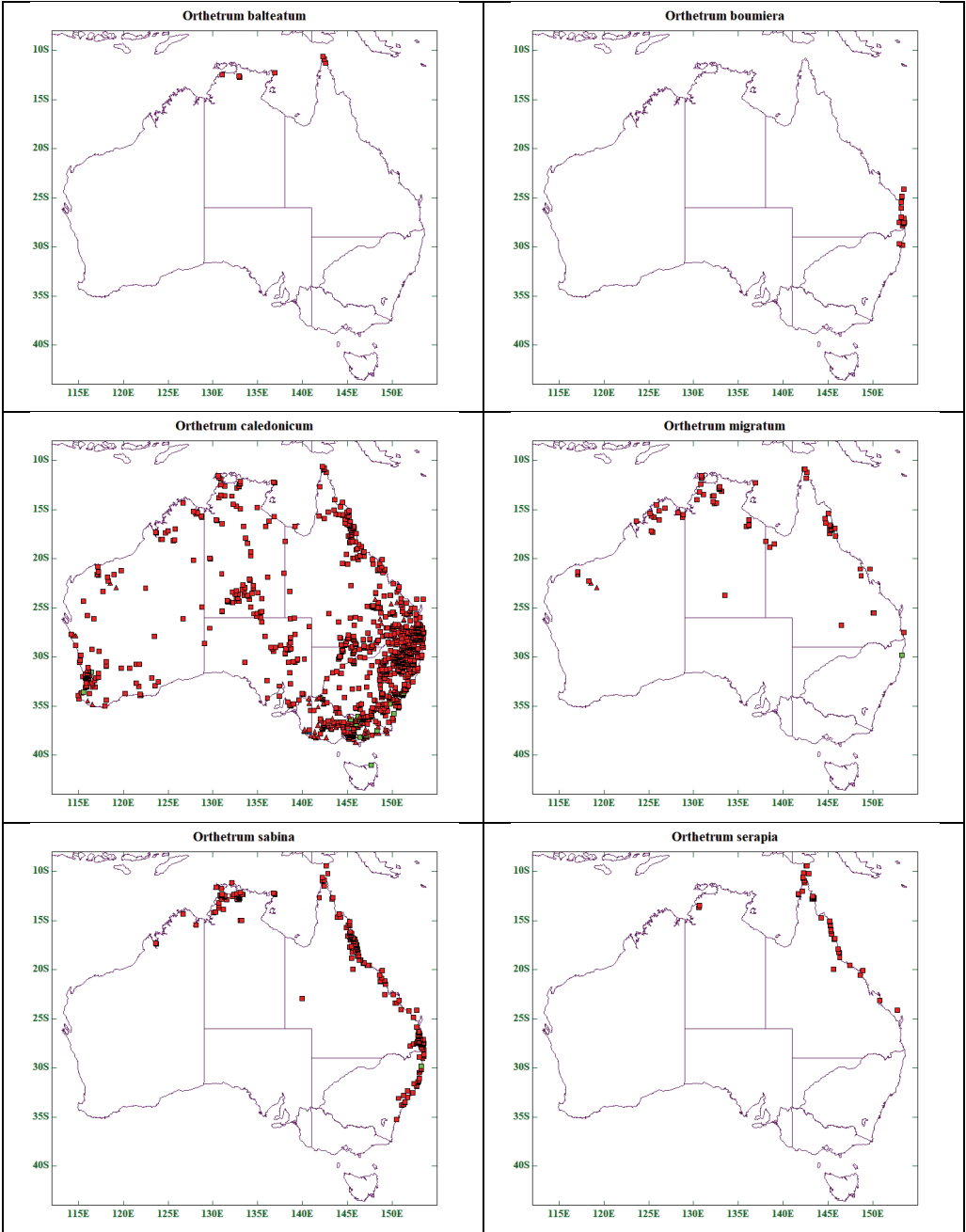


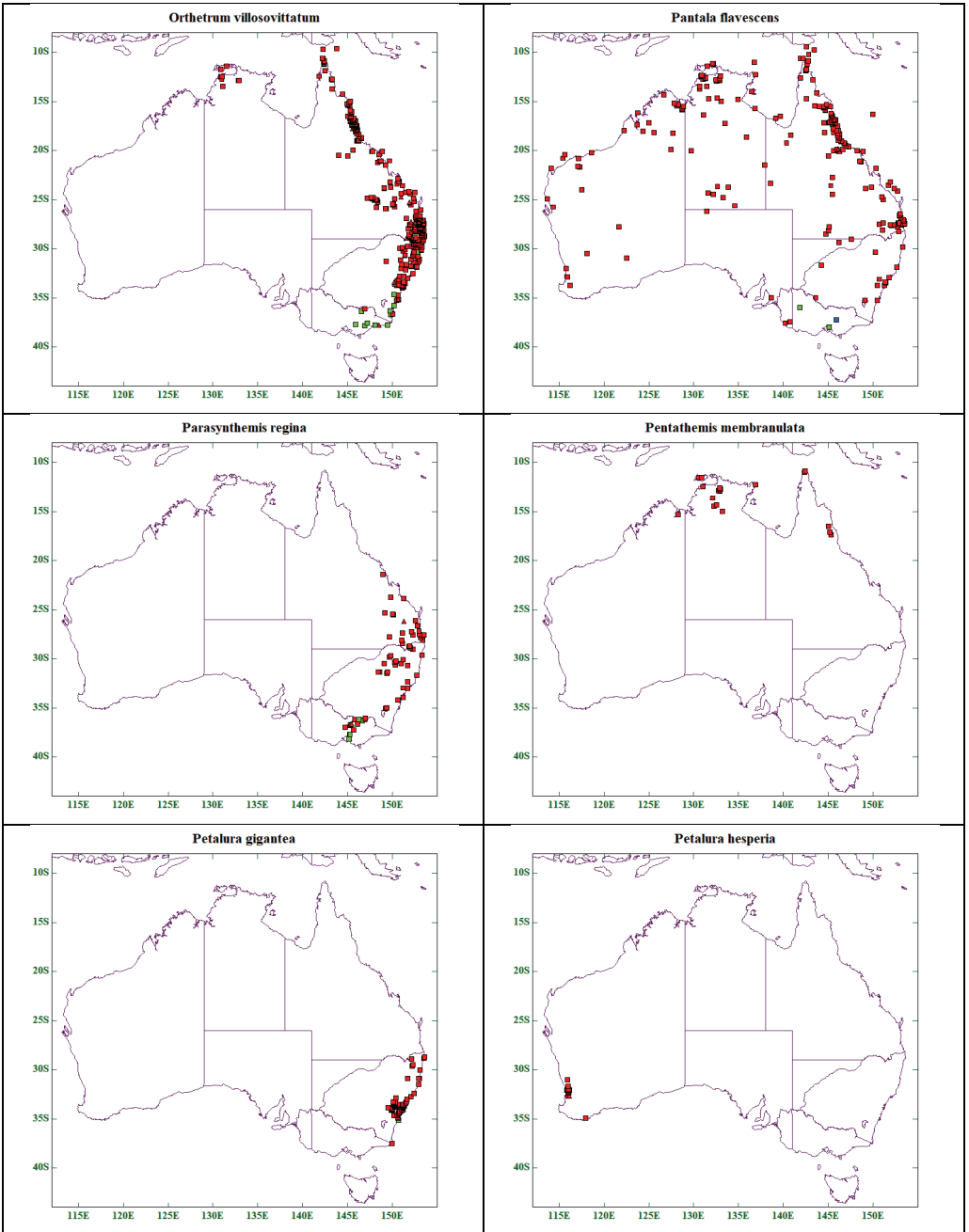


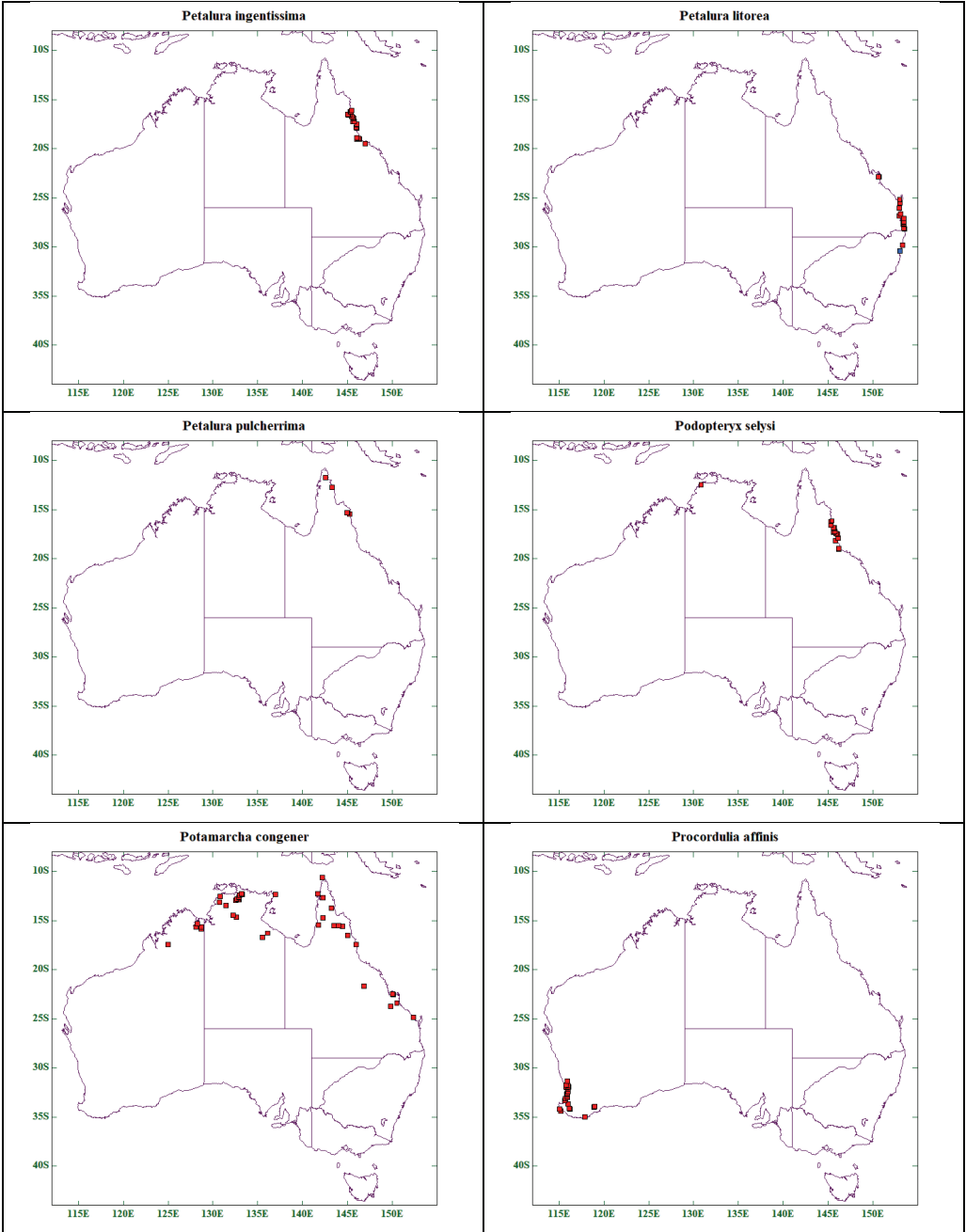


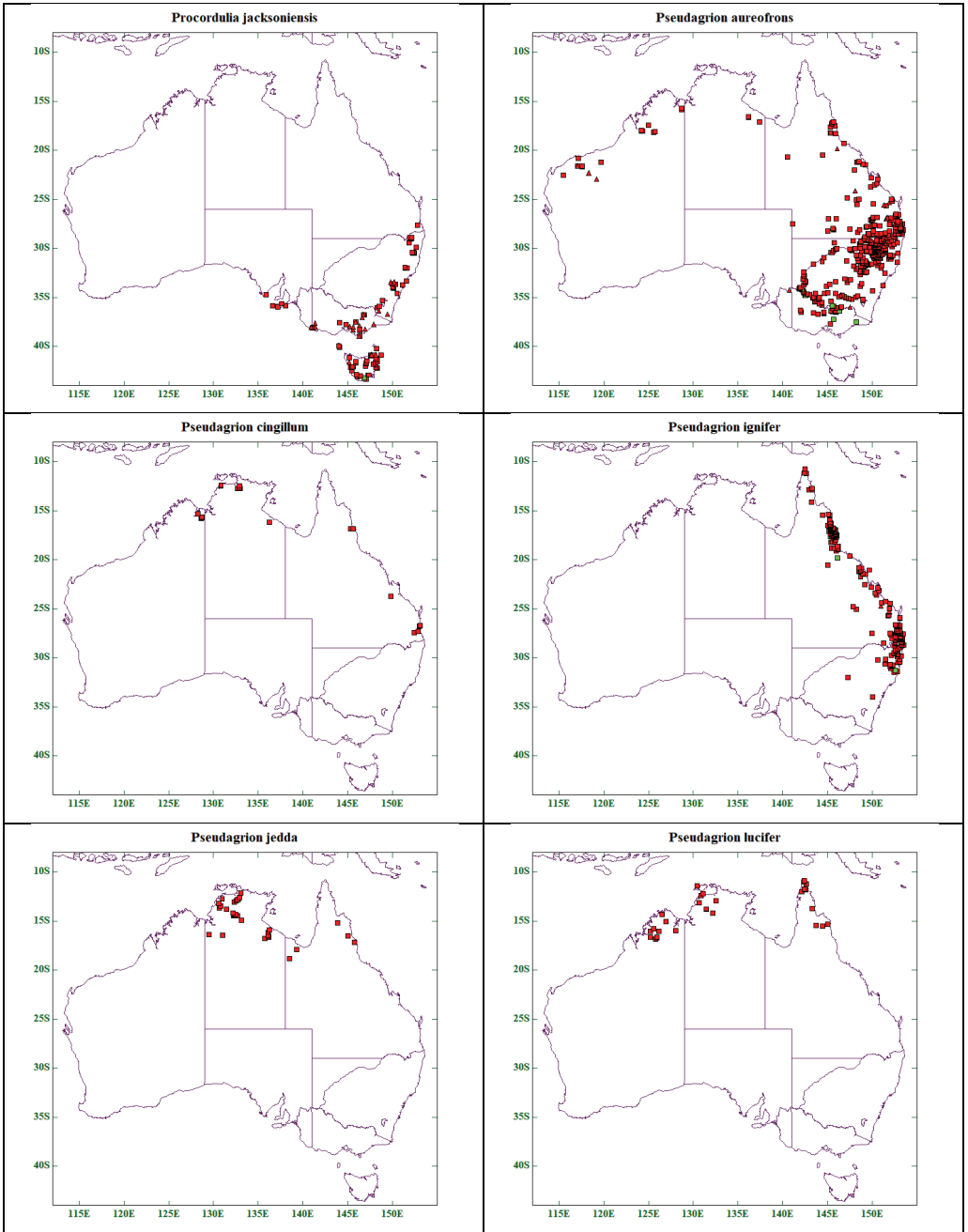


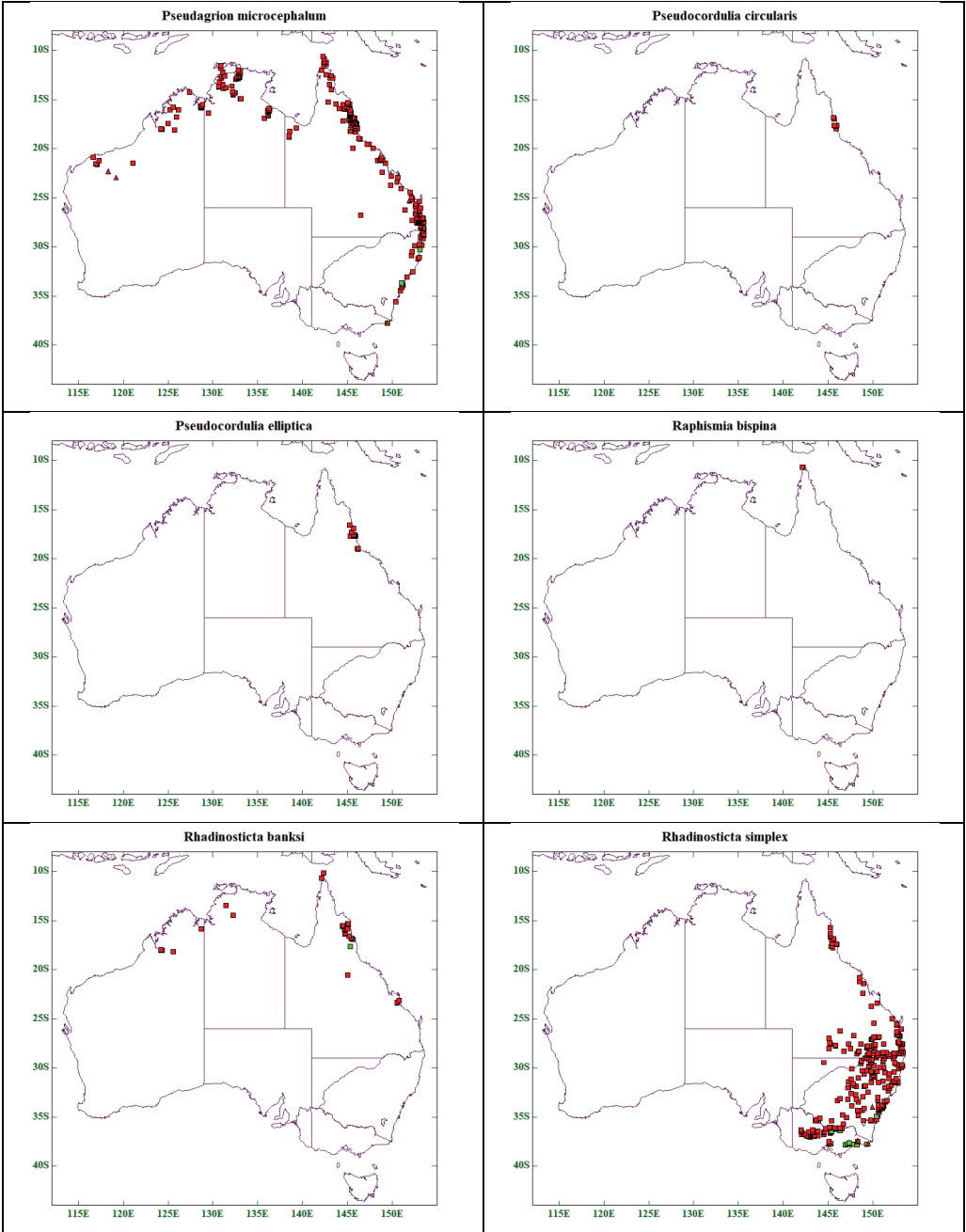


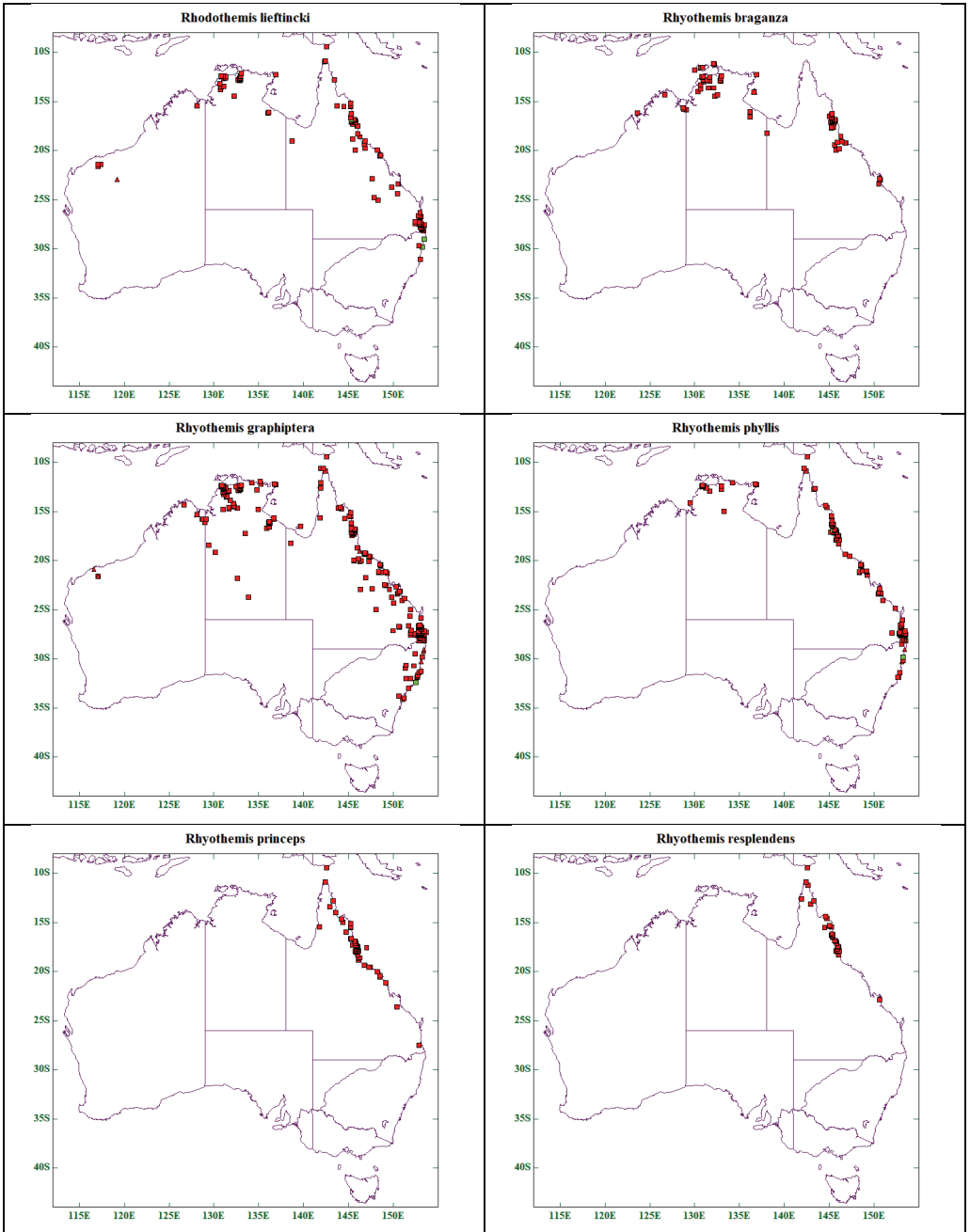


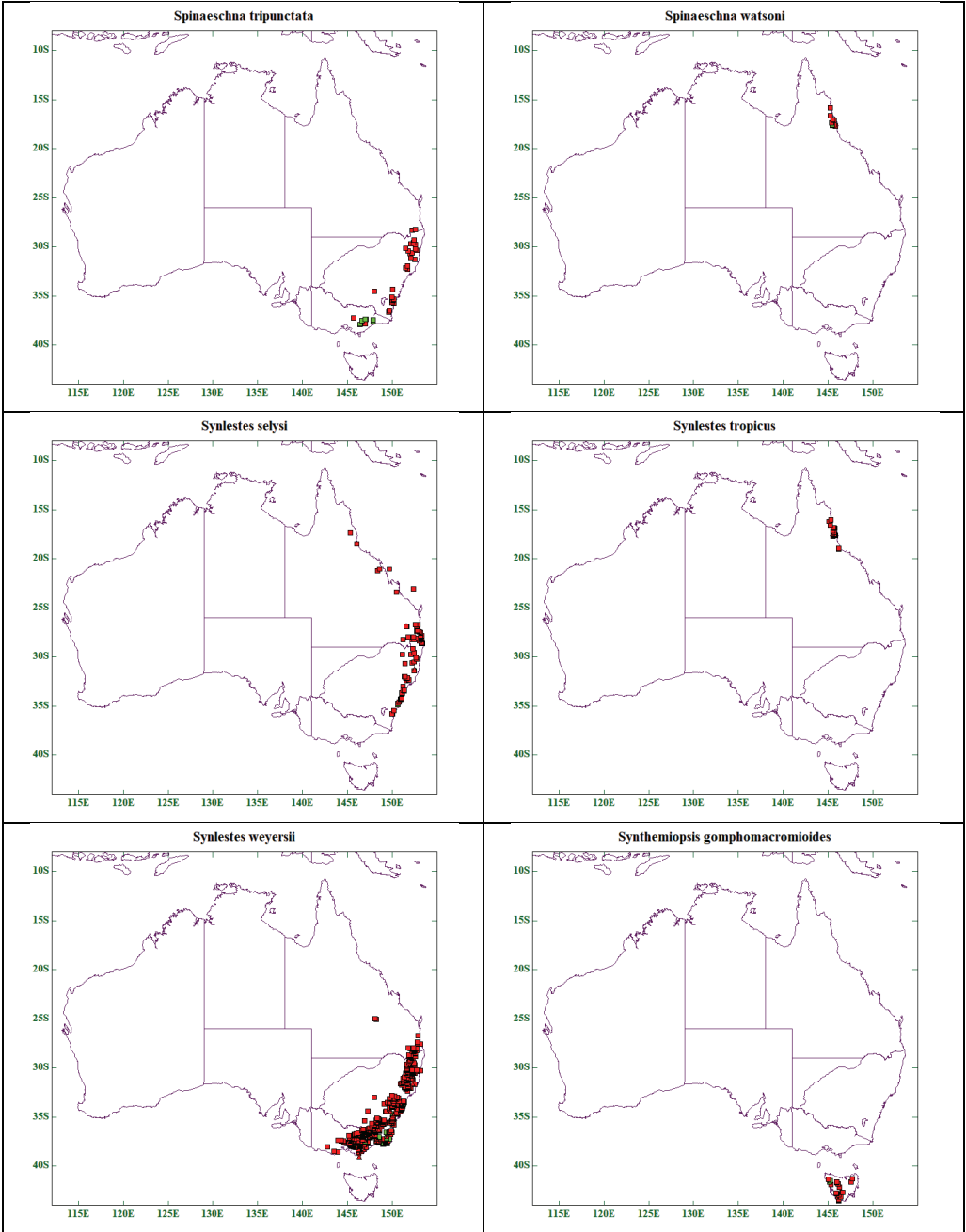


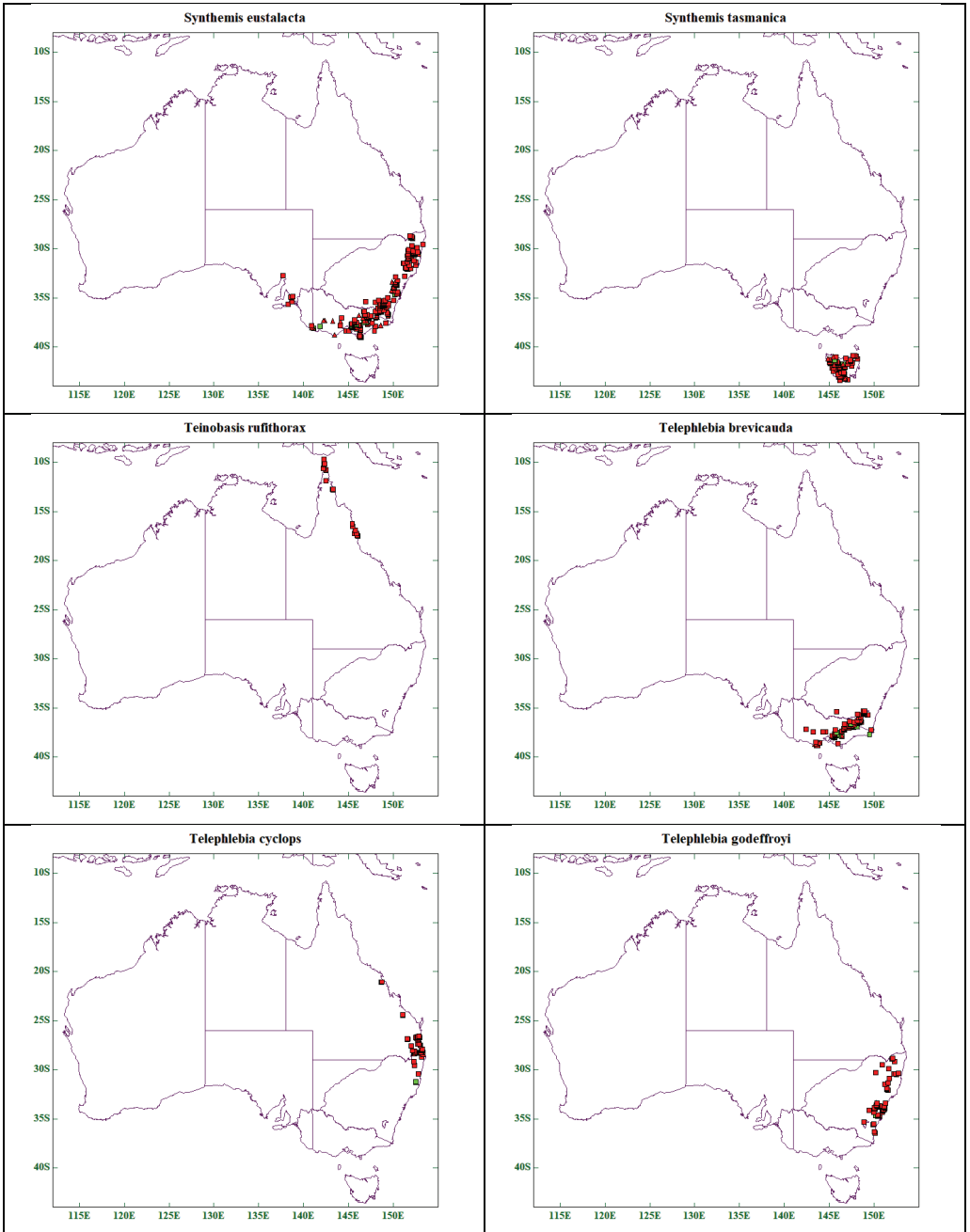


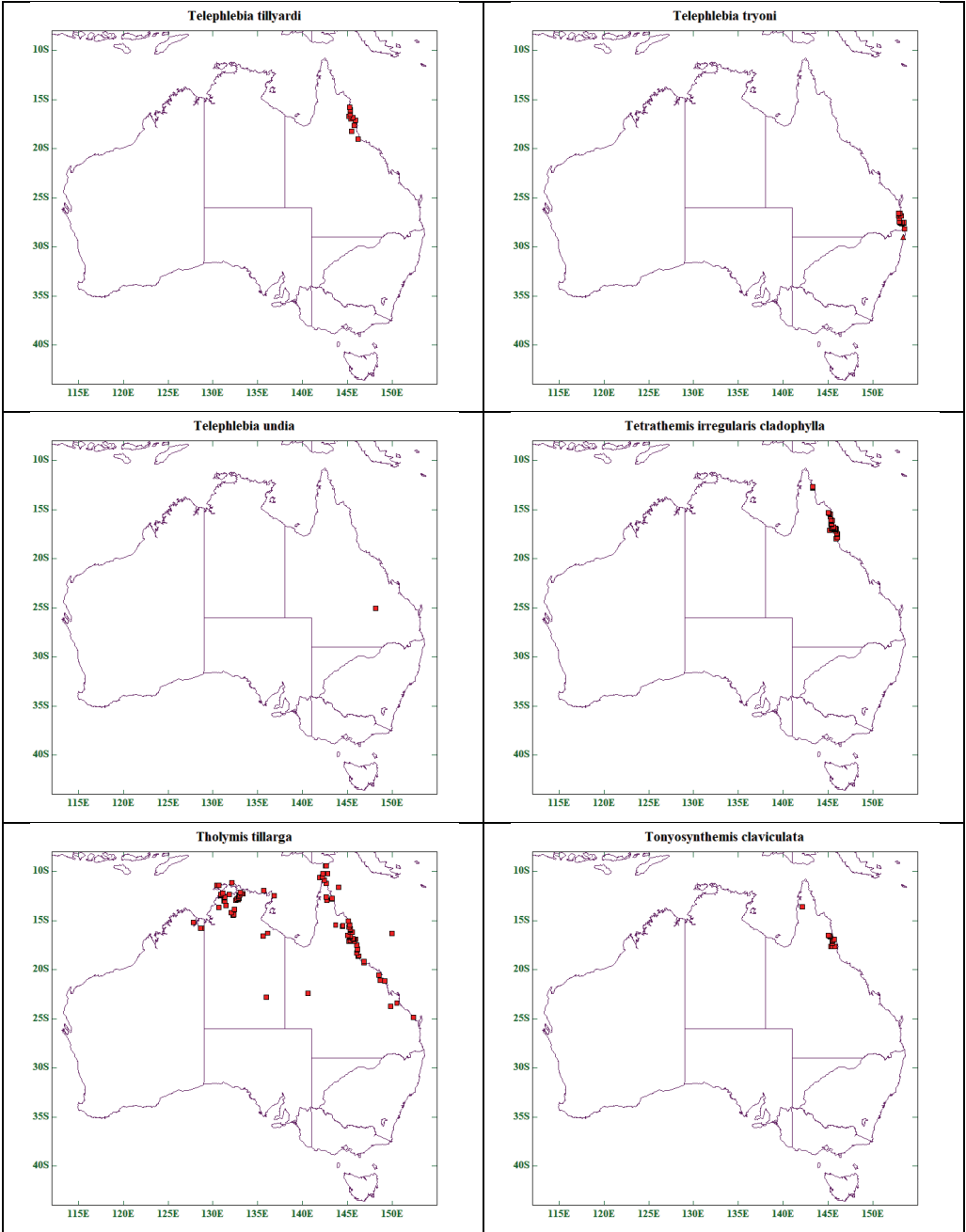


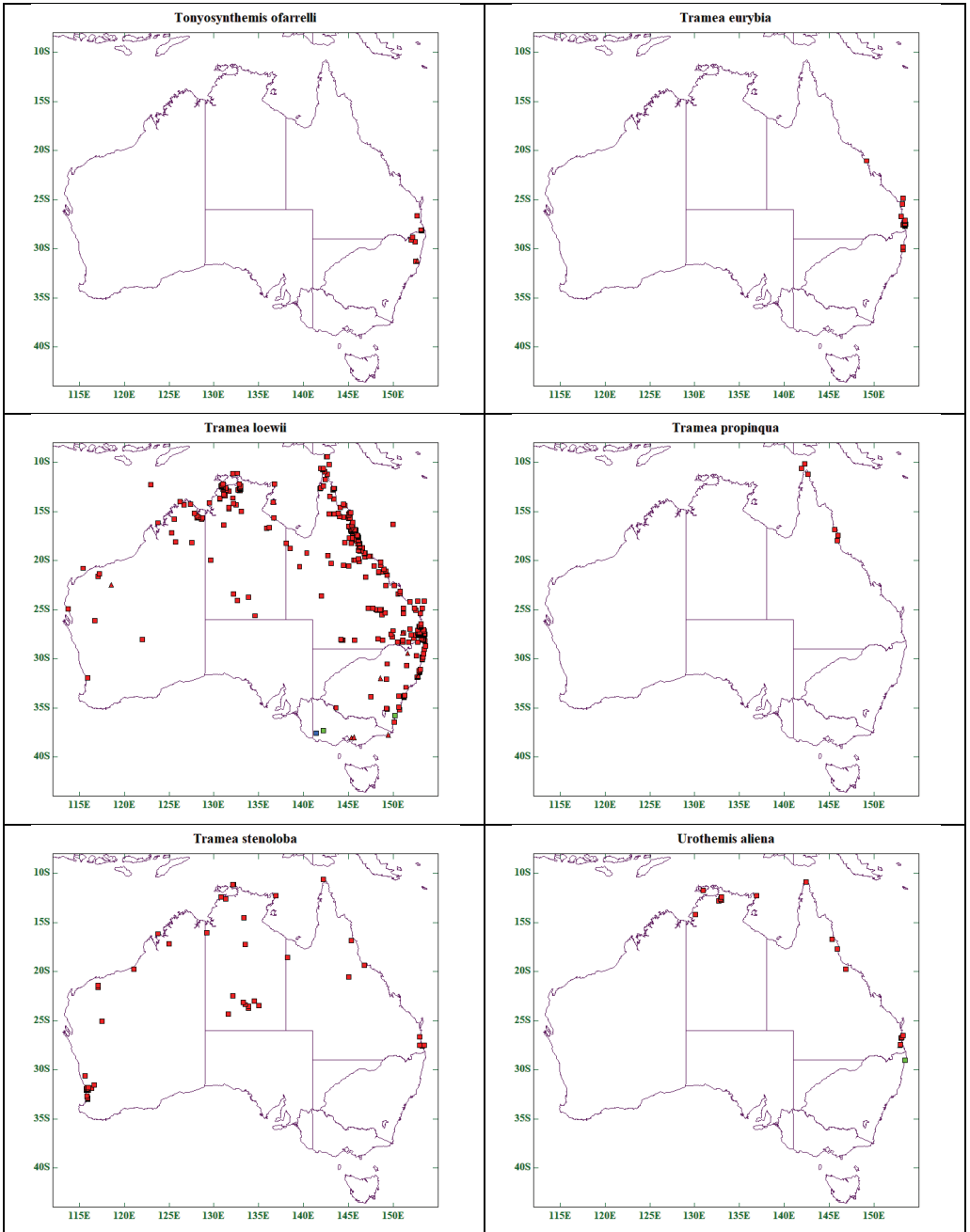


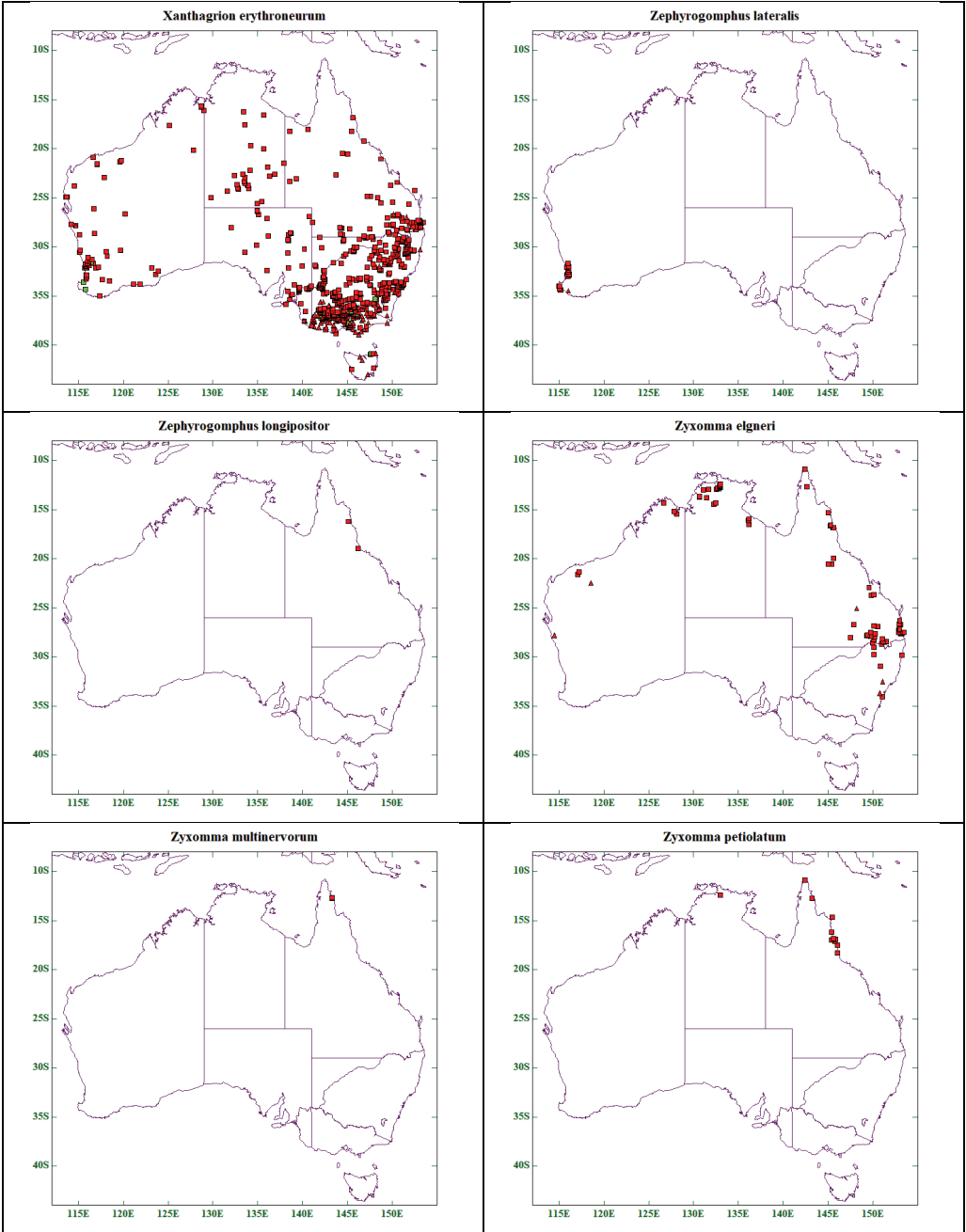












Interim Biogeographical Regions of Australia [IBRA7]

ARC	Arnhem Coast	213		KIN	King	226
ARP	Arnhem Plateau	210		LSD	Little Sandy Desert	71
AUA	Australian Alps	146		MAC	MacDonnell Ranges	223
AVW	Avon Wheatbelt	169		MAL	Mallee	72
BBN	Brigalow Belt North	96		MDD	Murray Darling Depression	128
BBS	Brigalow Belt South	107		MGD	Mitchell Grass Downs	93
BEL	Ben Lomond	232		MII	Mount Isa Inlier	91
BHC	Broken Hill Complex	71		MUL	Mulga Lands	105
BRT	Burt Plain	222		MUR	Murchison	181
CAR	Carnarvon	183		NAN	Nandewar	118
CEA	Central Arnhem	71		NCP	Naracoorte Coastal Plain	156
CEK	Central Kimberley	189		NET	New England Tablelands	121
CER	Central Ranges	72		NNC	NSW North Coast	124
CHC	Channel Country	103		NOK	Northern Kimberley	191
CMC	Central Mackay Coast	100		NSS	NSW South Western Slopes	137
COO	Coolgardie	168		NUL	Nullarbor	71
COP	Cobar Peneplain	130		OVP	Ord Victoria Plain	196
COS	Coral Sea	72		PCK	Pine Creek	207
CYP	Cape York Peninsula	74		PIL	Pilbara	185
DAB	Daly Basin	198		PSI	Pacific Subtropical Islands	71
DAC	Darwin Coastal	201		RIV	Riverina	135

The Distribution of Australian Dragonflies

DAL	Dampierland	187		SCP	South East Coastal Plain	151
DEU	Desert Uplands	94		SEC	South East Corner	143
DMR	Davenport Murchison Ranges	72		SEH	South Eastern Highlands	140
DRP	Darling Riverine Plains	116		SEQ	South Eastern Queensland	111
EIU	Einasleigh Uplands	81		SSD	Simpson Strzelecki Dunefields	164
ESP	Esperance Plains	166		STP	Stony Plains	72
EYB	Eyre Yorke Block	165		STU	Sturt Plateau	220
FIN	Finke	225		SVP	Southern Volcanic Plain	154
FLB	Flinders Lofty Block	160		SWA	Swan Coastal Plain	175
FUR	Furneaux	228		SYB	Sydney Basin	131
GAS	Gascoyne	71		TAN	Tanami	72
GAW	Gawler	162		TCH	Tasmanian Central Highlands	230
GES	Geraldton Sandplains	177		TIW	Tiwi Cobourg	204
GFU	Gulf Fall and Uplands	218		TNM	Tasmanian Northern Midlands	234
GID	Gibson Desert	71		TNS	Tasmanian Northern Slopes	72
GSD	Great Sandy Desert	72		TSE	Tasmanian South East	236
GUC	Gulf Coastal	216		TSR	Tasmanian Southern Ranges	238
GUP	Gulf Plains	79		TWE	Tasmanian West	240
GVD	Great Victoria Desert	72		VIB	Victoria Bonaparte	193
HAM	Hampton	71		VIM	Victorian Midlands	148
ITI	Indian Tropical Islands	72		WAR	Warren	173
JAF	Jarrah Forest	171		WET	Wet Tropics	86
KAN	Kanmantoo	158		YAL	Yalgoo	179

Five or less species were recorded for these eight bioregions (and only 47 specimens or sightings) so no chart of "flight" times is given.

	CEA	HAM	GID	LSD	PSI	NUL	BHC	GAS
Lestidae								
<i>Austrolestes annulosus</i>						1		
Coenagrionidae								
<i>Agriocnemis exsudans</i>					4			
<i>Ischnura aurora</i>					7			
<i>Ischnura heterosticta</i>							1	
<i>Xanthagrion microcephalum</i>						1	3	
Aeshnidae								
<i>Hemianax papuensis</i>		2				1	1	
Corduliidae								
<i>Hemicordulia australiae</i>					7			
<i>Hemicordulia tau</i>			1			1	4	
Libellulidae								
<i>Diplacodes bipunctata</i>			2	1				2
<i>Diplacodes haematodes</i>							2	1
<i>Orthetrum caledonicum</i>				1				1
<i>Pantala flavescens</i>								1
<i>Rhyothemis graphiptera</i>	1							
<i>Tramea stenoloba</i>								1
Number of Species	1	1	2	2	3	4	5	5
Number of Specimens	1	2	3	2	18	4	11	6

- BHC Broken Hill Complex
 CEA Central Arnhem
 GAS Gascoyne
 GID Gibson Desert
 HAM Hampton
 LSD Little Sandy Desert
 NUL Nullarbor
 PSI Pacific Subtropical Islands

Between six and ten species were recorded for these ten bioregions so no chart of "flight" times is given.

	COS	ITI	DMR	CER	GSD	GVD	MAL	STP	TAN	TNS
Lestidae										
<i>Austrolestes analis</i>							2			4
<i>Austrolestes annulosus</i>							7	1		2
<i>Austrolestes aridus</i>			7	4	6					
Isostictidae										
<i>Austrosticta fieldi</i>			1							
Coenagrionidae										
<i>Ischnura aurora</i>		1	3	1				18		1
<i>Ischnura heterosticta</i>						1		9		
<i>Xanthagrion microcephalum</i>			2	1	2	3	1	8	2	1
Aeshnidae										
<i>Adversaeschna brevistyla</i>						1	1			
<i>Anax guttatus</i>		1								
<i>Austroaeschna hardyi</i>										16
<i>Austroaeschna inermis</i>										
<i>Austroaeschna ingrid</i>										
<i>Austroaeschna muelleri</i>										
<i>Austroaeschna multipunctata</i>										
<i>Austroaeschna obscura</i>										
<i>Austroaeschna parvistigma</i>										12
<i>Austroaeschna tasmanica</i>										13
<i>Austroaeschna unicornis</i>										5
<i>Hemianax papuensis</i>	4	2		5	2	3	2	5	3	
Synthemistidae										
<i>Synthemis tasmanica</i>										5
Corduliidae										
<i>Hemicordulia tau</i>				2	2	2	7	5	3	4
Libellulidae										
<i>Diplacodes bipunctata</i>		1	3		2	1	1	12	8	
<i>Diplacodes haematodes</i>			6	1	4	2		6	5	
<i>Lathrecista asiatica festa</i>	1									
<i>Macrodiplax cora</i>									1	
<i>Nannophya occidentalis</i>							2			

<i>Neurothemis stigmatizans</i>	1									
<i>Orthetrum caledonicum</i>			4	3	4	3	2	16	12	
<i>Pantala flavescens</i>	1	1		1					2	
<i>Rhyothemis graphiptera</i>									1	
<i>Tholymis tillarga</i>	2									
<i>Tramea loewii</i>	1	2							1	
<i>Tramea stenoloba</i>					2					
Number of Species	6	7	7	8	8	8	9	9	10	10
Number of Specimens	10	9	26	18	24	16	25	80	38	63

CER	Central Ranges
COS	Coral Sea
DMR	Davenport Murchison Ranges
GSD	Great Sandy Desert
GVD	Great Victoria Desert
ITI	Indian Tropical Islands
MAL	Mallee
STP	Stony Plains
TAN	Tanami
TNS	Tasmanian Northern Slopes

Collection dates of specimens of larvae cannot contribute to flight calendars for adults so they have been ignored. However, on the rare occasion where a larva species has been sampled without a comparable adult being recorded, that larva is included in the total number of species.

Not all museum labels record the date of capture. The number of specimens without a date has been included in the final column headed "n.d.". This allows the full number of records on file to be seen so as to give some idea of which are the predominant species in the zone.

The order of the IBRA7 zones is not alphabetical but approximately contiguous starting at Cape York Peninsula. An index is given on page 69.

CYP **Cape York Peninsula** 12,256,457 ha

Complex geology dominated by the Torres Strait Volcanics in the north, the metamorphic rocks and acid intrusive rocks of various ages of the Coen-Yambo Inlier which runs north-south along the eastern margin of the region and encompasses the high-altitude/high-rainfall areas of Iron Range and McIlwraith Range. The deeply dissected sandstone plateaus and ranges of the Battle Camp Sandstones lie in the south of the region adjacent to the undulating

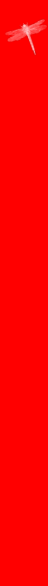


Laura Lowlands composed of residual weathered sands and flat plains of colluvial and alluvial clays, silts and sands. The west of the region is dominated in the south by the extensive Tertiary sand sheet dissected by intricate drainage systems of the Holroyd Plain, the Tertiary laterite of the undulating Weipa Plateau, the low rises of Mesozoic sandstones, with the northern extension of the Weipa Plateau and extensive coastal plains adjoining the Gulf of Carpentaria. Extensive aeolian dune fields lie in the east associated with Cape Bedford/Cape Flattery in the south and the Olive and Jardine Rivers.

The vegetation is predominantly *Eucalyptus tetradonta* and *Corymbia tessellaris*/*C. clarksoniana* woodlands, *Melaleuca viridiflora* woodlands, heathlands and sedgeland, notophyll vine forests, with semi-deciduous mesophyll vine forests on the eastern ranges and deciduous vine thickets on drier western slopes. Extensive mangrove forests are found in Kennedy Inlet in the north east of the region and estuaries on both the west and east coasts. Tropical humid/maritime climate, with rainfall varying from 1000 mm to 1600 mm .

Species 117 Specimens 2631 Adults 2631 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes insularis</i>	2	4	28		1	1	10	3		3			
<i>Indolestes alleni</i>	2				1		2	1		1	1	2	
<i>Indolestes tenuissimus</i>	4	2					1			2		12	1
<i>Lestes concinnus</i>	3	1	9		3		3			2	2	9	
Family Argiolestidae													
<i>Austroargiolestes icteromelas</i>										1			
Family Lestoideidae													
<i>Diphlebia euphoeoides</i>	1	1						1	1		2		1
Family Isostictidae													
<i>Eurysticta reevesi</i>			4										
<i>Labidiosticta vallisii</i>										1			
<i>Oristicta filicicola</i>	1	1	8	15	1	2				4	11	2	
<i>Rhadinosticta banksi</i>		2	10										
<i>Rhadinosticta simplex</i>	1												
Family Platycnemidae													
<i>Nososticta coelestina</i>	4		41			10	1	3	5		6	7	
<i>Nososticta solida</i>	1	1	2										
<i>Nososticta solitaria</i>	3	3	12			1	6		4	3	28	5	
Family Coenagrionidae													
<i>Aciagrion fragile</i>	1	1	4	4		1	1	1	4	5	19	2	3
<i>Agriocnemis femina</i>				2									
<i>Agriocnemis pygmaea</i>	1		2				5		1	1			
<i>Agriocnemis rubricauda</i>	1						7		35	22	1		
<i>Archibasis mimetes</i>	4					1	1						
<i>Argiocnemis rubescens</i>			1	1		2	2		21	20			
<i>Austroagrion exclamationis</i>			11	2	4		11	6	2	21	23	7	
<i>Austrocnemis maccullochi</i>										31			
<i>Ceriagrion aeruginosum</i>	3						3		4	6	4	4	
<i>Ischnura aurora</i>			4		6	2	13		2	16	23	5	1
<i>Ischnura heterosticta</i>	4	5	5	12	2	1	9		1	14	38	9	1
<i>Ischnura pruinescens</i>			2				5			8	4	2	5
<i>Pseudagrion ignifer</i>			1	4		4			5	9		3	
<i>Pseudagrion jedda</i>										1			
<i>Pseudagrion lucifer</i>		1	19				7	1	1			3	
<i>Pseudagrion microcephalum</i>	3	1	9		14		3	1	3	11			
<i>Teinobasis rufithorax</i>	11	4	8	22		4	4				1	4	



	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Aeshnidae													
<i>Agyrtacantha dirupta</i>	1					3	3				1		
<i>Anaciaeschna jaspidea</i>		2	1		2								1
<i>Anax gibbosulus</i>	3	1	1					1			1		1
<i>Anax guttatus</i>	10	2									2	15	
<i>Austrogynacantha heterogena</i>	3	1	1		2	1							
<i>Austrophlebia costalis</i>													
<i>Austrophlebia subcostalis</i>													
<i>Dendroaeschna conspersa</i>													
<i>Dromaeschna forcipata</i>	1		1								2		
<i>Dromaeschna weiskei</i>													
<i>Gynacantha dobsoni</i>			1		1	21	10	1	1	3	2		
<i>Gynacantha kirbyi</i>			1			3		1		2	1		
<i>Gynacantha mocsaryi</i>	4		3	2		5				1	1	3	1
<i>Gynacantha nourlangie</i>					3	2	4				1		
<i>Gynacantha rosenbergi</i>	3	3				1					8		
<i>Hemianax papuensis</i>	1		9	1	1	1	3	1		1	3		
Family Petaluridae													
<i>Petalura pulcherrima</i>	1	4										2	1
Family Gomphidae													
<i>Antipodogomphus edentulus</i>	1											3	
<i>Antipodogomphus proselythus</i>	4	2										6	2
<i>Austroepigomphus turneri</i>	1									2	2		
<i>Austrogomphus arbustorum</i>										1		2	2
<i>Austrogomphus bifurcatus</i>	1												
<i>Austrogomphus divaricatus</i>		1								1			
<i>Austrogomphus mjobergi</i>	3		2	1									
<i>Austrogomphus prasinus</i>	3	1	2	6	1						2	5	7
<i>Hemigomphus comitatus</i>		2									2	2	
<i>Ictinogomphus australis</i>	2	1									3	3	3
<i>Ictinogomphus paulini</i>	2									2	1		
Family Synthemistidae													
<i>Choristhemis flavoterminalata</i>		1	1										
<i>Eusynthemis nigra</i>											3		
<i>Tonyosynthemis claviculata</i>											1		
Family Macromiidae													
<i>Macromia tillyardi</i>			4							1			1
<i>Macromia viridescens</i>	1			1							1		1

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Corduliidae													
<i>Hemicordulia continentalis</i>	1	2	1										
<i>Hemicordulia intermedia</i>	1	1	4		1				1				
<i>Hemicordulia kalliste</i>	1												
<i>Pentathemis membranulata</i>	3											1	
Family Libellulidae													
<i>Aethriamanta nymphaea</i>	1												
<i>Agrionoptera insignis</i>	2	3	6	3		2	1	1			1	2	
<i>Agrionoptera longitudinalis</i>	4		2	1					2			2	
<i>Brachydiplax denticauda</i>	6	1				1		1	3	2	8	1	1
<i>Brachydiplax duivenbodei</i>	2											1	
<i>Camacinia othello</i>	3	3			1			1	1		1		2
<i>Crocothemis nigrifrons</i>									2	1	1	1	
<i>Diplacodes bipunctata</i>	1	1	20	1	1	2	2						
<i>Diplacodes haematodes</i>	7	1	16	2	13	9	27	4	17	7	8	4	
<i>Diplacodes nebulosa</i>	4		14	1		1	4	2		1	1	4	
<i>Diplacodes trivialis</i>	6	2	4	2	2	5	14			8	2		
<i>Hydrobasileus brevistylus</i>											1	2	
<i>Lathrecista asiatica festa</i>	17	6	8	2	5	11	4	2	14	4	7	9	1
<i>Macrodiplax cora</i>	2		2		2		2				2	3	
<i>Nannodiplax rubra</i>	8		22	2	3	8	32	25	6	7	8	4	1
<i>Nannophlebia eludens</i>	2		10	4		4	3			1	4		
<i>Nannophlebia risi</i>	1		2					1	2		1		
<i>Nannophya australis</i>	1		7		1				1				
<i>Nannophya paulson</i>	2												
<i>Neurothemis oligoneura</i>	3	9		1	1	12	4	9	14	3	1	3	5
<i>Neurothemis stigmatizans</i>	15	7	17	7	12	33	26	3	20	8	11	19	7
<i>Notolibellula bicolor</i>		3											1
<i>Orthetrum balteatum</i>	2					1		1					
<i>Orthetrum caledonicum</i>	2		5	1	1		7	2		5	2	5	1
<i>Orthetrum migratum</i>	5	3	17										
<i>Orthetrum sabina</i>	6	1	3	1	1		2	2	4	1	2	4	1
<i>Orthetrum serapia</i>	2			3	6	4	6	3	2	3	6		3
<i>Orthetrum villosovittatum</i>	6	4	3	2		3		3	6	5	4	4	2
<i>Pantala flavescens</i>	8	8	14		3	1	5					1	1
<i>Potamarcha congener</i>	1		2	1			6		2		1		
<i>Raphismia bispina</i>					4								
<i>Rhodothemis lieftincki</i>	5	1	2				1	1				6	



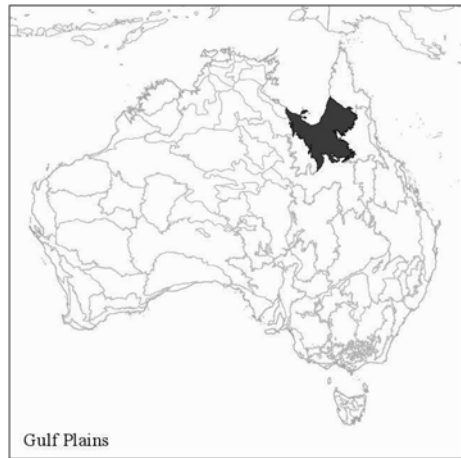
The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Rhyothemis graphiptera</i>	11					2	1		1	5		4	
<i>Rhyothemis phyllis</i>	8		1							3	3	7	1
<i>Rhyothemis princeps</i>	4	1		3	1						2	2	
<i>Rhyothemis resplendens</i>	10	2	2								3	10	
<i>Tetrathemis irregularis</i>	2	2	4			1	1			1	1	3	
<i>Tholymis tillarga</i>	4	2	9	1		11	4		1		4	8	
<i>Tramea loewii</i>	5	4	11	2	3	3	9	1		3	3	3	2
<i>Tramea propinqua</i>			2				1						
<i>Tramea stenoloba</i>	1											2	
<i>Urothemis aliena</i>	5												
<i>Zyxomma elgneri</i>			1				1					4	
<i>Zyxomma multinervorum</i>	2												
<i>Zyxomma petiolatum</i>						1						2	
Genera incertae sedis													
<i>Austrocordulia refracta</i>		1											
<i>Micromidia atrifrons</i>	1					2							
<i>Micromidia rodericki</i>	1												

GUP Gulf Plains

22,041,825 ha

Marine and terrestrial deposits of the Carpentaria and Karumba basins; plains, plateaus and outwash plains; woodlands and grasslands.



Species 36 Specimens 157 Adults 157 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d
Family Lestidae													
<i>Lestes concinnus</i>				3	3					1			
Family Isostictidae													
<i>Austrosticta fieldi</i>				4									
<i>Austrosticta frater</i>				11									
Family Platynemidae													
<i>Nososticta fraterna</i>				2									
Family Coenagrionidae													
<i>Argiocnemis argentea</i>							1						
<i>Argiocnemis rubescens</i>				5									
<i>Austroagrion exclamationis</i>												1	
<i>Austroagrion watsoni</i>				4									
<i>Austrocnemis maccullochi</i>												1	
<i>Ischnura aurora</i>				8	1					1		1	
<i>Ischnura heterosticta</i>				1	1				1				
<i>Ischnura pruinescens</i>				1									
<i>Pseudagrion jedda</i>							2						
<i>Pseudagrion microcephalum</i>				3			1						
<i>Xanthagrion erythronerum</i>				1								1	

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>									1	1			
<i>Anax guttatus</i>	3												
<i>Austrogynacantha heterogena</i>					1								
<i>Gynacantha nourlangie</i>					4								
<i>Hemianax papuensis</i>	1		1		2	2							1
Family Corduliidae													
<i>Hemicordulia australiae</i>									1	2			
<i>Hemicordulia tau</i>					1								
Family Libellulidae													
<i>Diplacodes bipunctata</i>			3	6	19	2	1				1		
<i>Diplacodes haematodes</i>				7			1						
<i>Nannodiplax rubra</i>				8									
<i>Nannophya australis</i>		1											1
<i>Neurothemis stigmatizans</i>				1	5	2							
<i>Notolibellula bicolor</i>					2								
<i>Orthetrum caledonicum</i>					1	2							
<i>Orthetrum migratum</i>													1
<i>Pantala flavescens</i>					1	2	1		1				
<i>Potamarcha congener</i>			1										
<i>Rhyothemis graphiptera</i>					2	1							
<i>Rhyothemis princeps</i>			1										
<i>Rhyothemis resplendens</i>													
<i>Tramea loewii</i>				1					2				1

EIU Einasleigh Uplands 11,625,726 ha

High plateau of Palaeozoic sediments, granites, and basalts; dominated by ironbark (*Eucalyptus* spp.) woodlands.



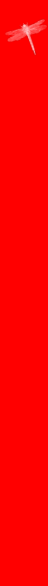
Species 120 Specimens 1491 Adults 1491 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synlestidae													
<i>Synlestes selysi</i>												1	
Family Lestidae													
<i>Austrolestes insularis</i>	6		3	4	3				1			2	
<i>Austrolestes leda</i>	5								1		1		
<i>Indolestes alleni</i>	1												
<i>Indolestes tenuissimus</i>	2										1		
<i>Lestes concinnus</i>			1	6	3	1	2			1		1	
Family Argiolestidae													
<i>Austroargiolestes aureus</i>													1
<i>Austroargiolestes icteromelas</i>	3			8				1	2		1		
Family Lestoideidae													
<i>Diphlebia euphoeoides</i>	1	1	7	4	6						6	15	
<i>Lestoidea lewisiana</i>													1
Family Isostictidae													
<i>Austrosticta frater</i>		4	14	1									
<i>Eurysticta reevesi</i>				1									
<i>Neosticta fraseri</i>		1											1
<i>Oristicta fillicicola</i>					1					1		1	

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Oristicta rosendaleorum</i>			6										
<i>Rhadinosticta banksi</i>		11	16	1	1								
<i>Rhadinosticta simplex</i>			1		1						1		
Family Platycnemidae													
<i>Nososticta coelestina</i>	1		2	7	3						2	8	
<i>Nososticta solida</i>	2	1	11	2					5	7	3	4	
<i>Nososticta solitaria</i>		5	19	9	3					7	8	22	
Family Coenagrionidae													
<i>Aciagrion fragile</i>	8			8							1		
<i>Agriocnemis argentea</i>		2	1	5	2					1	1	5	
<i>Agriocnemis pygmaea</i>	1	1		6	1				1	1	3	2	
<i>Agriocnemis rubricauda</i>			2		1						1	1	
<i>Argiocnemis rubescens</i>			2	1	3	1			6		1	3	
<i>Austroagrion exclamationis</i>		2		1	1					1	2	4	
<i>Austroagrion watsoni</i>			1	1					3	2	1	8	
<i>Austrocnemis maccullochi</i>												1	
<i>Austrocnemis splendida</i>				1							2	3	
<i>Ceriagrion aeruginosum</i>	4	4		1	1						1	2	
<i>Ischnura aurora</i>	1		6		3		2		4	5	6	6	
<i>Ischnura heterosticta</i>	2	5	2	3	1				3	2	3	15	
<i>Ischnura pruinescens</i>		2	1	3					3		5	2	
<i>Pseudagrion aureofrons</i>			2						1	1		1	
<i>Pseudagrion cingillum</i>												2	
<i>Pseudagrion ignifer</i>	9		3	3	6			1	1	2	10	18	
<i>Pseudagrion jedda</i>												2	
<i>Pseudagrion microcephalum</i>			7	3	1				4	2	13	12	1
<i>Xanthagrion erythroneurum</i>									1	1			
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>											1		
<i>Anax gibbosulus</i>		2	1									2	
<i>Anax guttatus</i>		1			1							1	
<i>Austroaeschna speciosa</i>		1									1	3	
<i>Austrognacantha heterogena</i>		2	2	1					1		1		
<i>Dromaeschna forcipata</i>	3	2									8	4	
<i>Dromaeschna weiskei</i>	1										1		
<i>Gynacantha dobsoni</i>										1	2		
<i>Gynacantha mocsaryi</i>	1												

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Gynacantha nourlangie</i>								1		1	1		
<i>Gynacantha rosenbergi</i>										1	3		
<i>Hemianax papuensis</i>		2		1								2	
<i>Spinaeschna watsoni</i>		2										1	
<i>Telephlebia tillyardi</i>	1		1								6	1	
Family Petaluridae													
<i>Petalura ingentissima</i>	2	1											
Family Gomphidae													
<i>Antipodogomphus acolythus</i>				1									
<i>Antipodogomphus neophytus</i>				1									
<i>Antipodogomphus proselythus</i>												2	
<i>Austroepigomphus turneri</i>		1									3	9	
<i>Austrogomphus amphiclitus</i>	1		3	1						2		5	1
<i>Austrogomphus arbustorum</i>			1								1	3	
<i>Austrogomphus bifurcatus</i>			2									2	
<i>Austrogomphus cornutus</i>									1				
<i>Austrogomphus divaricatus</i>		1	2								5	5	
<i>Austrogomphus doddi</i>	2		1	1									
<i>Austrogomphus mjobergi</i>	1	1									1		
<i>Austrogomphus prasinus</i>	3	1	1	8							5	6	
<i>Hemigomphus comitatus</i>	5			1						1	6	13	
<i>Hemigomphus heteroclytus</i>												1	
<i>Hemigomphus magela</i>													
<i>Hemigomphus theischingeri</i>			1										
<i>Ictinogomphus australis</i>		3		1						1	4	15	
Family Synthemistidae													
<i>Choristhemis flavoterminalata</i>	4			5							10	13	
<i>Eusynthemis nigra</i>	2	1								2	2	1	
<i>Tonyosynthemis claviculata</i>	1	1	2	1									
Family Macromiidae													
<i>Macromia tillyardi</i>	1										1	1	
Family Corduliidae													
<i>Hemicordulia australiae</i>		1									1	1	
<i>Hemicordulia continentalis</i>		5										1	
<i>Hemicordulia intermedia</i>	3	1	2	2						1	5	9	
<i>Hemicordulia tau</i>			1									1	

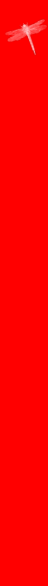


The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Pentathemis membranulata</i>											4	4	
Family Libellulidae													
<i>Aethriamanta circumsignata</i>												7	
<i>Agrionoptera longitudinalis</i>											1		
<i>Brachydiplax denticauda</i>				2						3	2	1	
<i>Crocothemis nigrifrons</i>		4	2	2	3					1	1	8	
<i>Diplacodes bipunctata</i>	2	3	7	4	6		2		10	8	3	8	
<i>Diplacodes haematodes</i>	4	3	19	6	18	1	1		1	11	3	31	
<i>Diplacodes nebulosa</i>		1		3			3	1			1	2	
<i>Diplacodes trivialis</i>	2	9	2	2	5				6		4	16	
<i>Hydrobasileus brevistylus</i>	2	5	3	1								7	
<i>Lathrecista asiatica festa</i>		1	1	2	1						2	3	
<i>Macrodiplax cora</i>		1		1								3	
<i>Nannodiplax rubra</i>	1				5					7	7		
<i>Nannophlebia eludens</i>	1	1	1	10	2						1		
<i>Nannophlebia risi</i>	1	1	5	1	1					2	2	1	
<i>Nannophya australis</i>											1		
<i>Neurothemis stigmatizans</i>	1	1	5	3	8						4	4	
<i>Orthetrum caledonicum</i>	3	3	3	3	4					6		11	
<i>Orthetrum migratum</i>		1	4	1							4	5	
<i>Orthetrum sabina</i>		3		1	2		1			2		4	
<i>Orthetrum serapia</i>		1											
<i>Orthetrum villosovittatum</i>	2	6	2	3	5					1	2	7	
<i>Pantala flavescens</i>		2	4	1						4	1	2	
<i>Potamarcha congener</i>												1	
<i>Rhodothemis lieftincki</i>				1	1						2	1	
<i>Rhyothemis braganza</i>	3	1		1	1					1	6	8	
<i>Rhyothemis graphiptera</i>	1	3	1	2					1	1	1	9	
<i>Rhyothemis phyllis</i>				2							1		
<i>Rhyothemis princeps</i>	2		1										
<i>Tetrathemis i.cladophila</i>											3		
<i>Tholymis tillarga</i>			1								1	4	
<i>Tramea loewii</i>	2	2	3		2		2			2	1	7	
<i>Tramea stenoloba</i>												1	
<i>Zyxomma elgneri</i>					1							1	
<i>Zyxomma petiolatum</i>											1		

The Distribution of Australian Dragonflies

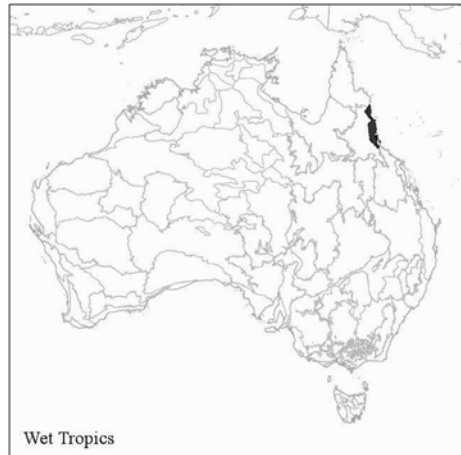
	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Genera incertae sedis													
<i>Archaeophya magnifica</i>		2											
<i>Austrocordulia refracta</i>											1	2	
<i>Austrophya mystica</i>		1									2	2	
<i>Micromidia-atrifrons</i>		9											
<i>Pseudocordulia elliptica</i>											1		



WET Wet Tropics

1,989,107 ha

The bioregion is dominated by rugged rainforested mountains, including the highest in Queensland Mt Bartle Frere (1622m). It also includes extensive plateau areas along its western margin, as well as low lying coastal plains. The most extensive lowlands are in the south, associated with the floodplains of the Tully and Herbert Rivers. Most of the bioregion drains to the Coral Sea from small coastal catchments, but higher western areas drain in the south into the Burdekin River, and in the north into tributaries of the Mitchell River. The region contains extensive areas of tropical rainforest, plus beach scrub, tall open forest, open forest, mangrove and Melaleuca woodland communities.



Species 145 Specimens 5098 Adults 5098 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synlestidae													
<i>Chorismagrion risi</i>	3	2	7	9	4		2		1	7	12	1	3
<i>Episynlestes cristatus</i>	10	3	5	9							4		1
<i>Synlestes selysi</i>			8	1									
<i>Synlestes tropicus</i>	4	5	9	6	10		1			6	13	11	3
Family Lestidae													
<i>Austrolestes insularis</i>	1												
<i>Austrolestes leda</i>											1		
<i>Indolestes alleni</i>	5			2			1	1		3		1	
<i>Indolestes tenuissimus</i>	5		2	2					5	2	4	6	1
<i>Lestes concinnus</i>	1		2	3	1	1		3			1		
Family Argiolestidae													
<i>Austroargiolestes aureus</i>	10	10	13	1				1	5	21	27	33	4
<i>Austroargiolestes icteromelas</i>	5	1	12	9				1	2	3	2	8	1
<i>Griseargiolestes metallicus</i>	1		1						5	7	3	4	

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Podopteryx selysi</i>	6	1	4	5						3	2	3	
Family Lestoideidae													
<i>Diphlebia euphoeoides</i>	39	12	71	51	4	1		11	50	24	37	40	1
<i>Diphlebia hybridoides</i>	5	2								3	17	29	
<i>Lestoidea barbara</i>											10	4	
<i>Lestoidea brevicauda</i>	1		2							4	5		
<i>Lestoidea conjuncta</i>	23	5	11	9	1	2			4	13	24	11	2
<i>Lestoidea lewisiana</i>											2	11	
Family Isostictidae													
<i>Labidiosticta vallisii</i>			1										
<i>Neosticta fraseri</i>	2		12	3	1				1	1	8	8	
<i>Oristicta filicicola</i>	8	4	10	11				3	2	6	6	4	
<i>Rhadinosticta banksi</i>				1									
<i>Rhadinosticta simplex</i>	1		2	3						3	1	1	
Family Platynemidae													
<i>Nososticta coelestina</i>	4	3	12	12	2				2	14	6	15	
<i>Nososticta solida</i>	5		6	6	1				12	6	10	7	
<i>Nososticta solitaria</i>	15	8	41	18	1		1	5	12	25	19	48	2
Family Coenagrionidae													
<i>Aciagrion fragile</i>	2		1	5		1	1	4	4	8	12	6	
<i>Agriocnemis argentea</i>	3			6		2				7	11	12	1
<i>Agriocnemis dobsoni</i>	3								2	3	8		
<i>Agriocnemis pygmaea</i>	1	1	2	4	1				10	3	7	3	
<i>Agriocnemis rubricauda</i>										1	1		
<i>Archibasis mimetes</i>	2			5					7	8	2	1	1
<i>Argiocnemis rubescens</i>	1	1	6	5	5	1	1	4	18	12	5	9	8
<i>Austroagrion exclamationis</i>			1			1					1	3	
<i>Austroagrion watsoni</i>			3	1					25		2	6	
<i>Austrocnemis maccullochi</i>												6	
<i>Austrocnemis splendida</i>	3								1		4	1	
<i>Ceriagrion aeruginosum</i>	4		6	3	3		2		9	14	15	13	4
<i>Ischnura aurora</i>	3		14	1	2			3	25		2	6	
<i>Ischnura heterosticta</i>	3		4	5				1	16	2	2	1	
<i>Ischnura pruinescens</i>	10		2	3	1		1		15	3		1	1
<i>Pseudagrion aureofrons</i>				1					1		1	2	1
<i>Pseudagrion cingillum</i>	1								1		1	1	
<i>Pseudagrion ignifer</i>	12	4	24	17	7		2	9	46	24	24	19	6
<i>Pseudagrion jedda</i>	1												

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Pseudagrion microcephalum</i>	4	1	11	13	1		1	3	22	11	19	17	2
<i>Teinobasis rufithorax</i>			4	1					1	8		2	
<i>Xanthagrion erythronurum</i>			1										
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	1							1				1	
<i>Anax gibbosulus</i>	1	3			1			1	2				
<i>Anax guttatus</i>	10	1										1	2
<i>Austroaeschna speciosa</i>	2	1	2										1
<i>Austrogynacantha heterogena</i>	4	5	2	1							1		
<i>Austrophlebia subcostalis</i>	1							1			3	2	
<i>Dromaeschna forcipata</i>	22	8	7	3						5	16	10	3
<i>Dromaeschna weiskei</i>	10		8	11	2					2	8	6	1
<i>Gynacantha dobsoni</i>	6		2		1			9	2	9	4	1	2
<i>Gynacantha kirbyi</i>				1						1			
<i>Gynacantha mocsaryi</i>	6	1	1						3	3	1	2	
<i>Gynacantha rosenbergi</i>	6	2	2		3				1	14	8	8	5
<i>Hemianax papuensis</i>	6	4	1	2				3	1		1	2	1
<i>Spinaeschna watsoni</i>	1		1						3		2		
<i>Telephlebia tillyardi</i>	1	3	2							3	2	2	
Family Petaluridae													
<i>Petalura ingentissima</i>	19	1	1								1	4	2
Family Gomphidae													
<i>Antipodogomphus acolythus</i>	1											1	
<i>Antipodogomphus proselythus</i>	5	1									5	2	
<i>Austroepigomphus praeruptus</i>				1						1			
<i>Austroepigomphus turneri</i>		3									2		
<i>Austrogomphus amphiclitus</i>	2	5	2	11							1	1	1
<i>Austrogomphus arbustorum</i>	1										4		3
<i>Austrogomphus bifurcatus</i>	3	8	5	5					1	1	3	2	
<i>Austrogomphus cornutus</i>	1											3	
<i>Austrogomphus divaricatus</i>	3	5		3						1	7	2	
<i>Austrogomphus doddi</i>		5							1				1
<i>Austrogomphus prasinus</i>	31	5	12	14					1	6	17	11	
<i>Hemigomphus atratus</i>										1			
<i>Hemigomphus comitatus</i>	9	3	1							2	8	8	
<i>Hemigomphus heteroclytus</i>	1		1								1		
<i>Hemigomphus theisingeri</i>	1		3								6	5	
<i>Ictinogomphus australis</i>	5	5									2	6	3

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Odontogomphus donnellyi</i>											3		
<i>Zephyrogomphus longipositor</i>												2	
Family Synthemistidae													
<i>Choristhemis flavoterminata</i>	18	5	10				1		3	5	12	31	
<i>Choristhemis olivei</i>	1											1	
<i>Eusynthemis barbarae</i>												5	
<i>Eusynthemis netta</i>													1
<i>Eusynthemis nigra</i>	13	6	5	3						4	24	26	3
<i>Eusynthemis tenera</i>										1		1	
<i>Tonyosynthemis claviculata</i>	1	6	1								1	1	
Family Macromiidae													
<i>Macromia tillyardi</i>	8					1					4		
Family Cordulidae													
<i>Hemicordulia australiae</i>	2	1	2		1			2	2	1	3	3	3
<i>Hemicordulia continentalis</i>	5	1	2						3	4	5	4	
<i>Hemicordulia intermedia</i>		1	4					1	1		7	2	
<i>Hemicordulia tau</i>	1											1	
Family Libellulidae													
<i>Aethriamanta nymphaea</i>			2							1			
<i>Agrionoptera insignis</i>	3	3	11	15	3	2			1	9	2	6	
<i>Agrionoptera longitudinalis</i>	12	2	11	2	2		1	1	7	3	8	3	
<i>Brachydiplax denticauda</i>	8	1	5	4						5	7	4	1
<i>Brachydiplax duivenbodei</i>	10		14	1					1	1		2	1
<i>Camacinia othello</i>	4	1											
<i>Crocothemis nigrifrons</i>	5			1		2			6	6	4	8	1
<i>Diplacodes bipunctata</i>	28		14	11		3	2	1	11	2	11	4	
<i>Diplacodes haematodes</i>	16		25	14	8	4	2	6	33	7	6	7	1
<i>Diplacodes nebulosa</i>	1		1	1		1			1			1	
<i>Diplacodes trivialis</i>	7	1	22	9	6	3	4	3	6	1	6	3	1
<i>Hydrobasileus brevistylus</i>	4	2							1	5	6	4	
<i>Lathrecista asiatica festa</i>	13		10	7	1			4	3	4	2	7	1
<i>Macrodiplax cora</i>	2	2	2						4	1	6	2	
<i>Nannodiplax rubra</i>	14		7	12	4	6	1	4	13	8	13	10	2
<i>Nannophlebia eludens</i>	11	5	25	17	7	2				6	6	16	2
<i>Nannophlebia risi</i>	1		8	4		1			3	1	7	2	
<i>Nannophya australis</i>	1												
<i>Neurothemis stigmatizans</i>	22	5	42	32	20	26	5	32	26	20	13	34	2
<i>Orthetrum caledonicum</i>	3		5	10	4	4		1	15			4	

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Orthetrum migratum</i>	3										1		
<i>Orthetrum sabina</i>	4	1	7	9	4	11	2	11	13	7	5	4	
<i>Orthetrum serapia</i>	6		3	3				3		1	1	1	
<i>Orthetrum villosovittatum</i>	23	3	24	7	6	8	3	5	22	29	16	17	1
<i>Pantala flavescens</i>	10	1	11	18	2	5		8	3		1	2	
<i>Potamarcha congener</i>			1										
<i>Rhodothemis lieftincki</i>	1			3	1	1			2	5	2	4	
<i>Rhyothemis braganza</i>	8								1	1	2	14	
<i>Rhyothemis graphiptera</i>	4		6	2		1			2	3	4	5	2
<i>Rhyothemis phyllis</i>	23	1	5	3	2				9	7	9	4	1
<i>Rhyothemis princeps</i>	13	1	17	3				2	3	9	7	16	1
<i>Rhyothemis resplendens</i>	24	1							2		8	9	1
<i>Tetrathemis irregularis</i>	3	3	5	4	4			1	1	5	3	10	
<i>Tholymis tillarga</i>	6	1	10	2	1	3		2	3	2	3	1	2
<i>Tramea loewii</i>	8		4	11	2	2		11	9	1	3	5	1
<i>Tramea propinqua</i>	1										1	1	
<i>Urothemis aliena</i>											1	1	
<i>Zyxomma elgneri</i>			1	1								1	
<i>Zyxomma petiolatum</i>	5		3	1						1		3	
Genera incertae sedis													
<i>Archaeophya magnifica</i>	2									1	4	6	2
<i>Austrocordulia refracta</i>										2	9	5	
<i>Austrophya mystica</i>	2	1	1							2	2	3	
<i>Cordulephya bidens</i>			2	3	4								
<i>Lathrocordulia garrisoni</i>												2	
<i>Micromidia atrifrons</i>	3		2									2	
<i>Pseudocordulia circularis</i>	1								1	7	2	1	
<i>Pseudocordulia elliptica</i>	6									1	6	3	

MII Mount Isa Inlier

6,778,263 ha

Rugged hills and outwash, primarily associated with Proterozoic rocks; skeletal soils; low open eucalypt woodlands dominated by *Eucalyptus leucophloia* and *E.pruinosa*, with a *Triodia pungens* understorey. Semi-Arid.



Species 19 Specimens 67 Adults 67 Larvae 0

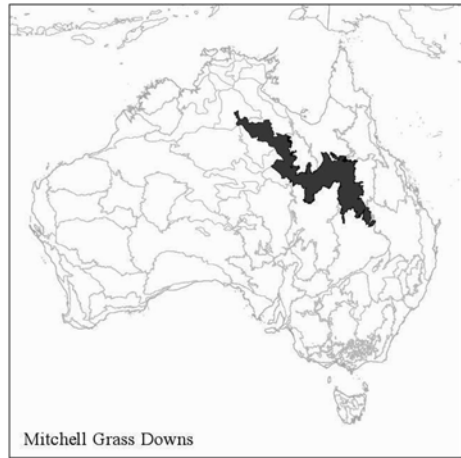
	J	F	M	A	M	J	J	A	S	O	N	D
Family Platycnemididae												
<i>Nososticta fraterna</i>				15								
Family Coenagrionidae												
<i>Argiocnemis argentea</i>				14								
<i>Argiocnemis rubescens</i>				1								
<i>Austroagrion watsoni</i>				2								
<i>Austrocnemis maccullochi</i>				1								
<i>Ischnura aurora</i>				2								
<i>Ischnura heterosticta</i>					1		1					
<i>Pseudagrion aureofrons</i>							6					
<i>Pseudagrion jedda</i>				4								
<i>Pseudagrion microcephalum</i>				7								
Family Aeshnidae												
<i>Hemianax papuensis</i>	1			1								
Family Gomphidae												
<i>Austrogomphus mjobergi</i>												1
Family Corduliidae												
<i>Hemicordulia intermedia</i>							1					

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D
Family Libellulidae												
<i>Crocothemis nigrifrons</i>				1		1						
<i>Diplacodes haematodes</i>				3								
<i>Nannophlebia injibandi</i>				1								
<i>Orthetrum migratum</i>				1								
<i>Orthetrum sabina</i>												
<i>Orthetrum serapia</i>												
<i>Orthetrum villosovittatum</i>												
<i>Pantala flavescens</i>												
<i>Potamarcha congener</i>												
<i>Raphismia bispina</i>												
<i>Rhodothemis liefincki</i>				1								
<i>Tramea loewii</i>							1					

MGD Mitchell Grass Downs 33,468,761 ha

Undulating downs on shales and limestones; *Astrebla* spp. grasslands and *Acacia* low woodlands. Grey and brown cracking clays.



Species 14 Specimens 41 Adults 41 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes aridus</i>		1			1			2		2			1
<i>Lestes concinnus</i>					1								
Family Coenagrionidae													
<i>Ischnura aurora</i>								1					
<i>Ischnura heterosticta</i>					1								
<i>Xanthagrion erythroneurum</i>				1	1					5			
Family Aeshnidae													
<i>Austrogynacantha heterogena</i>				1	1								
<i>Hemianax papuensis</i>				1	3		1						
Family Corduliidae													
<i>Hemicordulia tau</i>													1
Family Libellulidae													
<i>Diplacodes bipunctata</i>	1		1			1							
<i>Diplacodes haematodes</i>	2												
<i>Orthetrum caledonicum</i>				1	1					1			
<i>Orthetrum sabina</i>					1								
<i>Pantala flavescens</i>					3	1				1			1
<i>Tholymis tillarga</i>										1			

DEU Desert Uplands

6,941,095 ha

Ranges and plains on dissected Tertiary surface and Triassic sandstones; woodlands of *Eucalyptus whitei*, *E.similis* and *E.trachyphloia*.

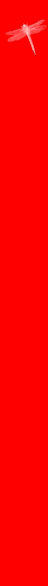


Species 32 Specimens 140 Adults 140 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D
Family Lestidae												
<i>Austrolestes aridus</i>				2								
<i>Austrolestes leda</i>				3								
<i>Lestes concinnus</i>										1		
Family Argiolestidae												
<i>Austroargiolestes icteromelas</i>				5								
Family Isostictidae												
<i>Austrosticta frater</i>				1								
<i>Eurysticta reevesi</i>				1								
<i>Rhadinosticta banksi</i>				5								
Family Coenagrionidae												
<i>Agriocnemis pygmaea</i>				1								
<i>Austroagrion watsoni</i>				16								1
<i>Ischnura aurora</i>				7						1		
<i>Pseudagrion ignifer</i>				1								
<i>Xanthagrion erythroneurum</i>				3								
Family Aeshnidae												
<i>Austrogynacantha heterogena</i>				15						1		
<i>Gynacantha nourlangie</i>				1								

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D
<i>Hemianax papuensis</i>				3								
Family Gomphidae												
<i>Ictinogomphus australis</i>				4								
Family Synthemistidae												
<i>Choristhemis flavoterminata</i>				2								
Family Corduliidae												
<i>Hemicordulia intermedia</i>				3								
<i>Hemicordulia tau</i>				2								
Family Libellulidae												
<i>Diplacodes bipunctata</i>		1		1								
<i>Diplacodes haematodes</i>				11						1		3
<i>Diplacodes trivialis</i>				1								
<i>Orthetrum caledonicum</i>				7						1		2
<i>Orthetrum villosovittatum</i>				3								
<i>Pantala flavescens</i>		1		4								
<i>Tramea loewii</i>				10								1
<i>Tramea stenoloba</i>				1								
<i>Zyxomma elgneri</i>				8								



BBN Brigalow Belt North 13,674,533 ha

Permian volcanics and Permian-Triassic sediments of the Bowen and Galilee Basins, Carboniferous and Devonian sediments and volcanics of the Drummond Basin and coastal blocks, Cambrian and Ordovician rocks of the Anakie inlier and associated Tertiary deposits. Subhumid to semiarid. Woodlands of ironbarks (*Eucalyptus melanophloia*, *E. crebra*), poplar box and Brown's box (*E. populnea*, *E. brownii*) and brigalow (*Acacia harpophylla*), blackwood (*A. argyrodendron*) and gidgee (*A. cambagei*). Region reaches the coast in the dry coastal corridor of Proserpine - Townsville.



Species 90 Specimens 796 Adults 796 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synlestidae													
<i>Episynlestes albicauda</i>											1	1	
<i>Synlestes selysi</i>	1	1											
Family Lestidae													
<i>Austrolestes aridus</i>							1						
<i>Austrolestes insularis</i>											1		
<i>Austrolestes leda</i>	1	3	4		1		2	1					
<i>Lestes concinnus</i>				1					2		2		
Family Argiolestidae													
<i>Austroargiolestes icteromelas</i>	2	1	1		1	1					4	1	
Family Lestoideidae													
<i>Diphlebia coeruleascens</i>											1		
Family Isostictidae													
<i>Labidiosticta vallisii</i>	2	1	2	6					1				
<i>Rhadinosticta banksi</i>	2		3	2									
<i>Rhadinosticta simplex</i>	1										1	1	

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Platycnemididae													
<i>Nososticta solida</i>	5		7	1	1				4	6	6	1	
<i>Nososticta solitaria</i>		1	1						1		2	1	
Family Coenagrionidae													
<i>Aciagrion fragile</i>											2		
<i>Agriocnemis argentea</i>					1					1			
<i>Agriocnemis dobsoni</i>			1										
<i>Agriocnemis pygmaea</i>	1		2		1	1	2		2		1	1	
<i>Agriocnemis rubricauda</i>			1										
<i>Argiocnemis rubescens</i>		1	1	1			1		1		1		
<i>Austroagrion exclamationis</i>	1										2		1
<i>Austroagrion watsoni</i>		1			1								
<i>Austrocnemis splendida</i>				1			2				2		1
<i>Ceriagrion aeruginosum</i>	2			9			4						
<i>Ischnura aurora</i>	2		2		5	1		1		3	3	2	
<i>Ischnura heterosticta</i>	3		2	2	2		3	5	1	3	6	2	1
<i>Ischnura pruinescens</i>			1	6			1						1
<i>Pseudagrion aureofrons</i>	1		1		1				1	1	4		
<i>Pseudagrion ignifer</i>		1	1		2					1	2		
<i>Pseudagrion microcephalum</i>					1		6					1	
<i>Xanthagrion erythroneurum</i>			1								1		
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>		1											
<i>Anax gibbosulus</i>				2					2				
<i>Anax guttatus</i>				1									
<i>Antipodophlebia asthenes</i>												1	
<i>Austrogynacantha heterogena</i>	3	1	4	2					1	4	4	8	3
<i>Austrophlebia costalis</i>	1												
<i>Gynacantha dobsoni</i>		3		1					1			1	
<i>Gynacantha rosenbergi</i>											1		
<i>Hemianax papuensis</i>	2	1	2	1	1	1	1	1		1		4	2
Family Petaluridae													
<i>Petalura ingentissima</i>		1											
Family Gomphidae													
<i>Antipodogomphus acolythus</i>	1									1	1		
<i>Antipodogomphus proselythus</i>	1												
<i>Austroepigomphus praeurptus</i>								1		1			
<i>Austroepigomphus turneri</i>										5		2	

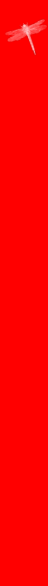


The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austrogomphus amphiplitus</i>			2	1							2		
<i>Austrogomphus arbustorum</i>											1		
<i>Austrogomphus australis</i>	2										1		
<i>Austrogomphus cornutus</i>											4	1	
<i>Hemigomphus heteroclytus</i>			1							2		1	
<i>Ictinogomphus australis</i>	5	3		3	1					2	2	3	4
Family Synthemistidae													
<i>Choristhemis flavoterminalata</i>	3	1	1	1							2	1	
<i>Eusynthemis nigra</i>											4		7
<i>Parasynthemis regina</i>											1		
Family Macromiidae													
<i>Macromia tillyardi</i>											1		
Family Corduliidae													
<i>Hemicordulia australiae</i>		3	2		1					1		1	
<i>Hemicordulia intermedia</i>	1		3								4		1
<i>Hemicordulia tau</i>											1	1	
Family Libellulidae													
<i>Aethriamanta circumsignata</i>													1
<i>Aethriamanta nymphaea</i>										1		1	
<i>Agrionoptera i.allogenes</i>			1										
<i>Brachydiplax denticauda</i>	1		1	3	3		7						2
<i>Crocothemis nigrifrons</i>	5	1	1	2	2		1	2	2	2	1	2	
<i>Diplacodes bipunctata</i>	7	3	4	5					2	7	2	4	
<i>Diplacodes haematodes</i>	6	8	5	6	2		1		1	10	5	1	
<i>Diplacodes trivialis</i>	6	2	3	6	5	2				1	1		
<i>Hydrobasileus brevistylus</i>		2	2	3					1	1		3	1
<i>Lathrecista asiatica festa</i>		1						1				1	
<i>Macrodiplax cora</i>	2	1									1		
<i>Nannodiplax rubra</i>		2						1	1		1		
<i>Nannophlebia risi</i>			1		1					2	4	1	
<i>Neurothemis stigmatizans</i>	4	4		1			1	4	2		3	1	
<i>Orthetrum caledonicum</i>	4	2	3	6		1			1	2	2	2	1
<i>Orthetrum migratum</i>										1			
<i>Orthetrum sabina</i>		4	1	3	1		2			1			1
<i>Orthetrum serapia</i>		1					1	1					
<i>Orthetrum villosovittatum</i>	2	2	1						3	3		2	
<i>Pantala flavescens</i>		1	2	2								2	3
<i>Potamarcha congener</i>		19								1	1		

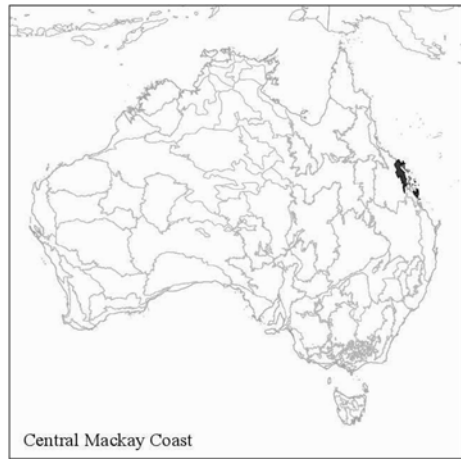
The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Rhodothemis lieftincki</i>	2	2	1	2						1	1	1	
<i>Rhyothemis braganza</i>	2									1	2	1	
<i>Rhyothemis graphiptera</i>	8	4	1	3	1			5	1	11	4	2	
<i>Rhyothemis phyllis</i>	3	1		3	1				1			1	1
<i>Rhyothemis princeps</i>	3			3									1
<i>Tholymis tillarga</i>		2						1				1	
<i>Tramea loewii</i>	3	3	3	5	3			1		1	2	2	1
<i>Tramea stenoloba</i>				1									
<i>Urothemis aliena</i>											1		
<i>Zyxomma elgneri</i>											1		
Genera incertae sedis													
<i>Cordulephya pygmaea</i>					1								
<i>Micromidia-atrifrons</i>	1	3	3	2							3		



CMC Central Mackay Coast 1,464,208 ha

Humid tropical coastal ranges and plains. Rainforests (complex evergreen and semi-deciduous notophyll vine forest), *Eucalyptus* open forests and woodlands, *Melaleuca* spp. wetlands.



Species 71 Specimens 622 Adults 622 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synlestidae													
<i>Episynlestes intermedius</i>	1									1	4	1	1
<i>Synlestes selysi</i>	3		1								1		
Family Lestidae													
<i>Austrolestes leda</i>	1												
<i>Lestes concinnus</i>											1		
Family Argiolestidae													
<i>Austroargiolestes elke</i>										5	6		1
<i>Austroargiolestes icteromelas</i>	6		11							9	11	3	
Family Lestoideidae													
<i>Diphlebia coerulescens</i>	11	2	11							4	7	4	
Family Isostictidae													
<i>Labidiosticta vallisii</i>	2				3					1	1		
<i>Rhadinosticta simplex</i>	3											1	
Family Platycnemidae													
<i>Nososticta solida</i>	4	2	3							3	1	2	
<i>Nososticta solitaria</i>	4		3							2	6	22	
Family Coenagrionidae													
<i>Agriocnemis argentea</i>	2	1								3		7	

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Agriocnemis pygmaea</i>	2												
<i>Argiocnemis rubescens</i>	3		2			1				1			
<i>Austroagrion watsoni</i>	2									3	1		
<i>Austrocnemis splendida</i>					7								
<i>Ischnura aurora</i>		1								2			
<i>Ischnura heterosticta</i>	2		5		1	1	1	1		1	1		
<i>Pseudagrion aureofrons</i>		1								3			
<i>Pseudagrion ignifer</i>	2		5		2					3	1		
<i>Pseudagrion microcephalum</i>	2									5	1	2	
<i>Xanthagrion erythroneurum</i>											1		
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	1		1										
<i>Austroaeschna christine</i>	3		1	1							2		
<i>Austroaeschna eungella</i>	2			1						1	1	3	
<i>Austroaeschna pinheyi</i>	2												
<i>Austrophlebia costalis</i>	1									1	3	2	1
<i>Hemianax papuensis</i>	2		1							1			
<i>Telephlebia cyclops</i>				1						1		2	
Family Petaluridae													
<i>Petalura litorea</i>			1										1
Family Gomphidae													
<i>Austroepigomphus turneri</i>		1									3	1	
<i>Austrogomphus amphiclitus</i>	2		1							1	3	4	1
<i>Hemigomphus comitatus</i>										1			
<i>Hemigomphus heteroclytus</i>	6									5	2	2	
<i>Ictinogomphus australis</i>		1								1		2	
Family Synthemistidae													
<i>Choristhemis flavoterminalata</i>	4		1							2	4	3	
<i>Eusynthemis nigra</i>	12		2							1	17	7	12
Family Corduliidae													
<i>Hemicordulia australiae</i>	3		1										
<i>Hemicordulia intermedia</i>											1		
<i>Hemicordulia tau</i>											1		
Family Libellulidae													
<i>Brachydiplax denticauda</i>			1							1	5	1	
<i>Crocothemis nigrifrons</i>	2			1	1					4	1	3	
<i>Diplacodes bipunctata</i>	2		1	1	1			12		3	5		
<i>Diplacodes haematodes</i>	5		1		1					4	3	1	

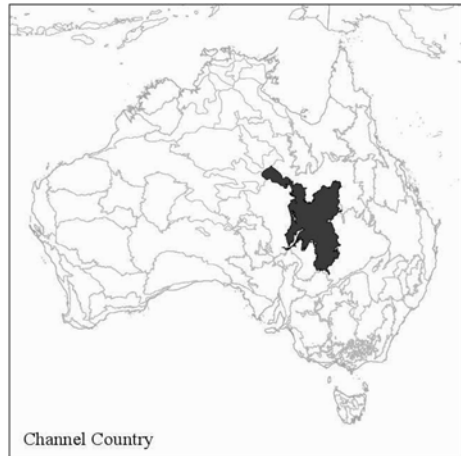
The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Diplacodes trivialis</i>			1					8		4	11		
<i>Hydrobasileus brevistylus</i>										1	4	1	
<i>Lathrecista asiatica festa</i>										6			
<i>Nannodiplax rubra</i>			2			1				1			
<i>Nannophlebia eludens</i>	2		1								2	2	
<i>Nannophlebia risi</i>	1	1								5	1	1	1
<i>Nannophya australis</i>					4								
<i>Neurothemis stigmatizans</i>					1		2			6			1
<i>Orthetrum caledonicum</i>	3	1			1			3		2	2		
<i>Orthetrum migratum</i>			2										
<i>Orthetrum sabina</i>	2		1	1						5	1		1
<i>Orthetrum serapia</i>										1	1		
<i>Orthetrum villosovittatum</i>	3		4							1	4	2	
<i>Pantala flavescens</i>			1	2						1	1		
<i>Rhodothemis lieftincki</i>										1	1		
<i>Rhyothemis braganza</i>							1						
<i>Rhyothemis graphiptera</i>	2		1							1	5		1
<i>Rhyothemis phyllis</i>			2	1						1	4	4	
<i>Rhyothemis princeps</i>											2		1
<i>Rhyothemis resplendens</i>												3	
<i>Tholymis tillarga</i>			1								2		1
<i>Tramea eurybia</i>		1											
<i>Tramea loewii</i>				3	1	1					1	1	1
Genera incertae sedis													
<i>Austrocordulia refracta</i>		1								1			

CHC Channel Country

30,409,437 ha

Low hills on Cretaceous sediments; forbfields and Mitchell grass downs, and intervening braided river systems of coolibah *E.coolibah* woodlands and lignum/*Chenopodium* sp. shrublands. (Includes small areas of sand plains.)



Species 15 Specimens 65 Adults 65 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes annulosus</i>										1			
<i>Austrolestes aridus</i>									1	3	1		
<i>Austrolestes leda</i>									1				
Family Coenagrionidae													
<i>Ischnura aurora</i>			1						2	1	2		
<i>Ischnura heterosticta</i>									1				
<i>Pseudagrion aureofrons</i>										1			
<i>Xanthagrion erythroneurum</i>	3	1								4			
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>									1				
<i>Hemianax papuensis</i>			1		2			1			2		1
Family Gomphidae													
<i>Austrogomphus australis</i>										3	2		1
Family Corduliidae													
<i>Hemicordulia tau</i>	1		1	4	2				2		1		
Family Libellulidae													
<i>Diplacodes bipunctata</i>			2		3			2	1		1		

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Diplacodes haematodes</i>					1				2				
<i>Orthetrum caledonicum</i>			1	1				1		1			

MUL Mulga Lands

25,188,333 ha

Undulating plains and low hills on Cainozoic sediments; red earths and lithosols; *Acacia aneura* shrublands and low woodlands.



Species 25 Specimens 514 Adults 257 Larvae 257

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes annulosus</i>									1				
<i>Austrolestes aridus</i>					1				2	5			
<i>Austrolestes leda</i>	1				1				2	1	3		
Family Isostictidae													
<i>Rhadinosticta simplex</i>										2			
Family Platycnemididae													
<i>Nososticta solida</i>										2			
Family Coenagrionidae													
<i>Austroagrion watsoni</i>										1			
<i>Ischnura aurora</i>			2		29				13	2	6	2	
<i>Ischnura heterosticta</i>									2		1		
<i>Pseudagrion aureofrons</i>										6			
<i>Pseudagrion microcephalum</i>					2								
<i>Xanthagrion erythroneurum</i>		1			3				16		1		1
Family Aeshnidae													
<i>Austrogynacantha heterogena</i>	1											1	
<i>Hemianax papuensis</i>		1		3	6				4		1		2
Family Gomphidae													
<i>Austrogomphus australis</i>										9			

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synthemistidae													
<i>Eusynthemis nigra</i>													1
Family Corduliidae													
<i>Hemicordulia tau</i>					3				10		1		
Family Libellulidae													
<i>Diplacodes bipunctata</i>			2		32				11		7		1
<i>Diplacodes haematodes</i>					2				1			4	
<i>Nannophya fenshami</i>										7			
<i>Orthetrum caledonicum</i>				2	13				6	1	1	4	
<i>Orthetrum migratum</i>					1								
<i>Pantala flavescens</i>					2				2				
<i>Tramea loewii</i>									5	1			

BBS Brigalow Belt South 27,219,776 ha

Predominantly Jurassic and younger deposits of the Great Artesian Basin and Tertiary deposits with elevated basalt flows. Subhumid. Eucalyptus woodlands and open forests of ironbarks, poplar box, spotted gum (*E. maculata*), cypress pine (*Callitris glaucophylla*), Bloodwoods (eg. *E. trachyphloia*, *E. hendersonii* ms) brigalow-belah forests (*E. harpophylla*, *Casuarina cristata*) and semi-evergreen vine thicket.



Species 94 Specimens 2752 Adults 2206 Larvae 546

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synlestidae													
<i>Episynlestes albicauda</i>	1	2	7	4	1					3	1	6	
<i>Synlestes selysi</i>	1			2	1	2							
<i>Synlestes weyersii</i>	1	5	23	1					1		5	3	5
Family Lestidae													
<i>Austrolestes analis</i>			1									2	
<i>Austrolestes aridus</i>	3			2	1	1			3	2	1	3	2
<i>Austrolestes leda</i>	9	3	8	11	7	2	2	1	5	10	39	24	2
<i>Austrolestes psyche</i>	4										1		
<i>Lestes concinnus</i>						1			2			1	
Family Argiolestidae													
<i>Austroargiolestes amabilis</i>	1		1										
<i>Austroargiolestes icteromelas</i>	14	11	35	22	1				10	39	15	13	9
<i>Griseargiolestes eboracus</i>												1	
<i>Griseargiolestes fontanus</i>	1	1											
Family Lestoideidae													
<i>Diphlebia coerulescens</i>													1
<i>Diphlebia lestoides</i>	1										1	4	4

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Diphlebia nymphoides</i>	1	4	5	1					2	17		7	
Family Isostictidae													
<i>Labidiosticta vallisii</i>										1			
<i>Rhadinosticta simplex</i>	1									1	3		
Family Platycnemidae													
<i>Nososticta solida</i>	9	6	15	3					2	13	7	4	
Family Coenagrionidae													
<i>Agriocnemis argentea</i>										1			
<i>Agriocnemis pygmaea</i>			4	3							6		
<i>Agriocnemis rubricauda</i>			2										
<i>Agriocnemis rubescens</i>			1	1								2	
<i>Austroagrion watsoni</i>	4	1	1	7	1				6	6	11	7	1
<i>Austrocnemis splendida</i>									1				
<i>Ceriagrion aeruginosum</i>													1
<i>Ischnura aurora</i>	1	1	8	15	2	1			6	6	33	21	1
<i>Ischnura heterosticta</i>	8	9	13	9	5			1	5	14	25	5	3
<i>Ischnura pruinescens</i>	1												
<i>Pseudagrion aureofrons</i>	12	9	11	5						3	4	9	
<i>Pseudagrion cingillum</i>	2											7	
<i>Pseudagrion ignifer</i>		3		2					1		2	5	1
<i>Pseudagrion microcephalum</i>					2				1		1		
<i>Xanthagrion erythroneurum</i>	3	1	7	4	1				3	2	22	10	
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	6	1		9							6	2	3
<i>Austroaeschna parvistigma</i>												1	
<i>Austroaeschna pinheyi</i>	1	47	4	4						10	2		
<i>Austroaeschna sigma</i>		2		1									
<i>Austroaeschna unicornis</i>		4	1	3									1
<i>Austroaeschna muelleri</i>		2	6	2					1	3	1	6	3
<i>Austroaeschna pulchra</i>	2	1	5	1								1	1
<i>Austrogynacantha heterogena</i>	4	2	13								2	5	3
<i>Dendroaeschna conspersa</i>			3										
<i>Gynacantha dobsoni</i>		1											
<i>Hemianax papuensis</i>	6	6	14	9	1			1	4	7	2	10	4
<i>Spinaeschna tripunctata</i>													1
<i>Telephlebia cyclops</i>	2	3											
<i>Telephlebia undia</i>												1	
Family Gomphidae													

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Antipodogomphus acolythus</i>		2	1										
<i>Antipodogomphus proselythus</i>										1			
<i>Austroepigomphus praeruptus</i>	7	2	1	1							2	7	1
<i>Austrogomphus amphi-clitus</i>		2	8	5						3	2	7	1
<i>Austrogomphus arbustorum</i>	2												
<i>Austrogomphus australis</i>	1		2								4		
<i>Austrogomphus cornutus</i>	1	2	8							18	5	8	4
<i>Austrogomphus guerini</i>	2	4											
<i>Austrogomphus ochraceus</i>	1	5									2	1	3
<i>Hemigomphus gouldii</i>	2	2	1								1	3	
<i>Hemigomphus heteroclytus</i>	7	3	10	6					1	5	3	13	2
<i>Ictinogomphus australis</i>	4	1	3	3							1	9	2
Family Synthemistidae													
<i>Choristhemis flavotermi-nata</i>	1	3	5	2							4	9	3
<i>Eusynthemis auro-lineata</i>	6											1	1
<i>Eusynthemis deniseae</i>		1	1							5	1	9	2
<i>Eusynthemis nigra</i>	3	6	1							1	3	26	11
<i>Eusynthemis virgula</i>	1												3
<i>Parasynthemis regina</i>	4		1	1	2					3	1	1	
Family Macromiidae													
<i>Macromia tillyardi</i>	1										1	2	
Family Corduliidae													
<i>Hemicordulia australiae</i>	6	1	1	2						3	4	1	2
<i>Hemicordulia intermedia</i>	1	2	4	3						2	2	3	
<i>Hemicordulia tau</i>	5	5	6	11	6	1				9	10	16	4
Family Libellulidae													
<i>Brachydiplax denticauda</i>			1										
<i>Crocothemis nigrifrons</i>	2		7	4		1	1		2	5	2	1	
<i>Diplacodes bipunctata</i>	8	8	13	18	9	7	1		9	4	30	20	7
<i>Diplacodes haematodes</i>	13	4	15	25	1	3			11	30	11	7	
<i>Diplacodes melanopsis</i>	1		3	1								1	
<i>Hydrobasileus brevistylus</i>	1												
<i>Nannodiplax rubra</i>											1		
<i>Nannophlebia risi</i>		1								3	1	3	1
<i>Nannophya australis</i>	1										9		1
<i>Orthetrum caledonicum</i>	8	3	18	34					7	17	27	12	4
<i>Orthetrum migratum</i>	6										1		
<i>Orthetrum sabina</i>									1		1	1	

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Orthetrum villosovittatum</i>	3		6	26					1	5	16	2	2
<i>Pantala flavescens</i>	2	1	5	1							1		1
<i>Potamarcha congener</i>		1											
<i>Rhodothemis lieftincki</i>	1	1	1									3	1
<i>Rhyothemis graphiptera</i>	4		4								1		
<i>Rhyothemis phyllis</i>											1		
<i>Rhyothemis princeps</i>								1					
<i>Tholymis tillarga</i>			3										
<i>Tramea loewii</i>	1	2	8	3					8	7	5	3	2
<i>Zyxomma elgneri</i>	2	2	7	4						1	1	4	
Genera incertae sedis													
<i>Austrocordulia refracta</i>			1							1		1	
<i>Cordulephya pygmaea</i>		1											

SEQ South Eastern Queensland 7,804,921 ha

Metamorphic and acid to basic volcanic hills and ranges (Beenleigh, D’Aguilar, Gympie, Yarraman Blocks) sediments of the Moreton, Nambour and Maryborough Basins, extensive alluvial valleys and Quaternary coastal deposits including high dunes on the sand islands such as Fraser Island. Humid. *Eucalyptus-Lophostemon-Syncarpia* tall open forests, Eucalyptus open forests and woodlands, sub-tropical rainforests often with *Araucaria cunninghamii* emergents and small areas of cool temperate rainforest dominated by *Nothofagus moorei* and semi-evergreen vine thickets, *Melaleuca quinquenervia* wetlands and Banksia low woodlands, heaths and mangrove/saltmarsh communities.



Species 130 Specimens 8957 Adults 8930 Larvae 27

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synlestidae													
<i>Episynlestes albicauda</i>	17	10	15	30	21	7	2	3	1	8	3	28	5
<i>Synlestes selysi</i>	18	3	17	17	31	5				3	2	20	3
<i>Synlestes weyersii</i>	5	11	14	12	1				1		3	1	1
Family Lestidae													
<i>Austrolestes aridus</i>	1			2								1	
<i>Austrolestes cingulatus</i>								1					
<i>Austrolestes leda</i>	32	10	25	32	37	3	7	9	41	13	19	46	7
<i>Austrolestes minjerriba</i>	54	1	15	16	13			2	37	6	7	40	1
<i>Austrolestes psyche</i>	8	1		4					1	4	1	9	1
<i>Lestes concinnus</i>				1						2		1	
Family Argiolestidae													
<i>Austroargiolestes amabilis</i>	14	6		1		1				10	14	18	1
<i>Austroargiolestes chrysoides</i>	11	4	14	1		1			28	13	15	19	
<i>Austroargiolestes icteromelas</i>	89	39	55	63	27	1	1	2	33	46	76	93	2

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Griseargiolestes albescens</i>	22	7	5	3	6			2	35	18	4	24	2
<i>Griseargiolestes fontanus</i>	14	1		1						1	3	13	
Family Lestoideidae													
<i>Diphlebia coerulescens</i>	32	7	22	5	4		3			9	21	29	
<i>Diphlebia lestoides</i>	14	1							1	4	20	20	2
<i>Diphlebia nymphoides</i>	12	7	2	1					6	1	6	7	
Family Isostictidae													
<i>Labidiosticta vallisii</i>	4	3	1	11	8					2	1	1	1
<i>Neosticta canescens</i>	16	1								5	26	11	2
<i>Rhadinosticta simplex</i>	14	6	4	2	8				3		2	9	
Family Platycnemidae													
<i>Nososticta coelestina</i>			6										
<i>Nososticta solida</i>	52	10	7	10		1		1	1	15	28	52	1
<i>Nososticta solitaria</i>	8		7						2			3	2
Family Coenagrionidae													
<i>Aciagrion fragile</i>	6						1		3	2			
<i>Agriocnemis argentea</i>			1							1			
<i>Agriocnemis pygmaea</i>	27	11	5	28					8	9	14	26	
<i>Agriocnemis rubricauda</i>	1								1	1	2	1	
<i>Agriocnemis rubescens</i>	16	9	9	18	2	1	1		13	10	15	22	1
<i>Austroagrion exclamationis</i>	12		3	1						1	1	12	
<i>Austroagrion watsoni</i>	23	6	6	4	5	2			32	36	35	33	2
<i>Austrocnemis splendida</i>	10	10	4	2					4	18	7	15	
<i>Ausrocoenagrion lyelli</i>													1
<i>Caliagrion billinghursti</i>											1		
<i>Ceriagrion aeruginosum</i>	21	7	12	6	1	1				5	12	14	
<i>Ischnura aurora</i>	20	9	5	5	5	3		2	11	10	13	27	1
<i>Ischnura heterosticta</i>	56	21	28	31	29	7		3	33	27	40	39	3
<i>Ischnura pruinescens</i>	9	1		1		1							
<i>Pseudagrion aureofrons</i>	15	13	3	8	1	2				8	6	23	3
<i>Pseudagrion cingillum</i>	1			1		2			1		1	2	
<i>Pseudagrion ignifer</i>	34	10	18	39	7	1				5	16	32	
<i>Pseudagrion microcephalum</i>	12	15	14	16	3	4		3	5	7	19	39	4
<i>Xanthagrion erythroneurum</i>	3	2	2	4	1			1	1	2	4	4	2
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	22	8	9	6	3	2		3	8	2	10	18	2
<i>Anax gibbosulus</i>		1	1	1									
<i>Anax guttatus</i>	1												

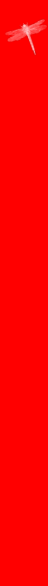
	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Antipodophlebia asthenes</i>	5	1									3	7	
<i>Austroaeschna cooloola</i>	3	1								1	2	4	2
<i>Austroaeschna pinheyi</i>	4	5	9	1	9	1				1		3	
<i>Austroaeschna pulchra</i>	10	5	19	22	7	1				1		7	1
<i>Austroaeschna sigma</i>	12	4	8	13	12	3			3		2	13	
<i>Austroaeschna unicornis</i>	4			3									
<i>Austrogynacantha heterogena</i>	12	10	2	13	2						2	3	1
<i>Austrophlebia costalis</i>	7	2						1		2	1	9	2
<i>Dendroaeschna conspersa</i>				3	2	3							
<i>Gynacantha dobsoni</i>												2	
<i>Hemianax papuensis</i>	12	9	28	18	8	3	3	2	3	5	2	11	2
<i>Notoaeschna geminata</i>	1								1	1		2	
<i>Spinaeschna tripunctata</i>		1											
<i>Telephlebia cyclops</i>	18	13	5	6	1	1			1		4	12	
<i>Telephlebia tryoni</i>	4	4									6	9	6
Family Petaluridae													
<i>Petalura gigantea</i>	2											3	
<i>Petalura litorea</i>	15	1								2	1	10	1
Family Gomphidae													
<i>Antipodogomphus acolythus</i>	3		4	1								3	
<i>Antipodogomphus proselythus</i>	2	1									1	2	1
<i>Austroepigomphus praeruptus</i>	8	1	3	2					1	7	3	11	1
<i>Austrogomphus amphiclitus</i>	62	21	13	15	8				3	10	14	40	2
<i>Austrogomphus australis</i>	2												
<i>Austrogomphus cornutus</i>	11		5	2						1	6	10	
<i>Austrogomphus guerini</i>	1		3										
<i>Austrogomphus ochraceus</i>	19	8	2					1	12	13	20	48	1
<i>Hemigomphus cooloola</i>	5	1									1	6	
<i>Hemigomphus gouldii</i>	5	2	2					1		4	6	5	
<i>Hemigomphus heteroclytus</i>	16	8	4	10	1				4	4	15	18	3
<i>Ictinogomphus australis</i>	29	11	10	5	1						1	17	1
Family Synthemistidae													
<i>Choristhemis flavoterminalata</i>	56	16	13	8	3		1			5	31	58	2
<i>Eusynthemis aurolineata</i>	4	1	4	5						1	8	13	
<i>Eusynthemis brevistyla</i>	1												
<i>Eusynthemis cooloola</i>												1	
<i>Eusynthemis nigra</i>	49	1	5	5				2		5	35	55	9
<i>Eusynthemis rentziana</i>	2								1			1	

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Eusynthemis virgula</i>	1											1	
<i>Parasynthemis regina</i>	3	5					1				6	4	
<i>Tonyosynthemis ofarrelli</i>	3											1	1
Family Macromiidae													
<i>Macromia tillyardi</i>		1											
Family Corduliidae													
<i>Hemicordulia australiae</i>	55	14	17	24	12	1		1	22	27	46	45	3
<i>Hemicordulia continentalis</i>	26	11	5	2	2				2	2	6	20	
<i>Hemicordulia intermedia</i>			1		1								
<i>Hemicordulia superba</i>	6	2	1	3							2		3
<i>Hemicordulia tau</i>			3	2	3				3		1	5	
<i>Metaphya tillyardi</i>													
<i>Procordulia jacksoniensis</i>												1	
Family Libellulidae													
<i>Aethriamanta circumsignata</i>	1	1								2	1	2	
<i>Aethriamanta nymphaea</i>	3	4	5		1					1	1	3	
<i>Agrionoptera i.allogenes</i>	4	12	2	2	6					1		1	
<i>Austrothemis nigrescens</i>	1	1			1				7	1	2	13	2
<i>Brachydiplax denticauda</i>	10	15	12	1	2					2	6	11	
<i>Crocothemis nigrifrons</i>	16	18	15	25	5	3	1		1	6	13	10	
<i>Diplacodes bipunctata</i>	49	23	72	68	36	2	3	16	40	17	28	32	4
<i>Diplacodes haematodes</i>	38	10	48	59	26	3	2	8	9	24	22	45	3
<i>Diplacodes melanopsis</i>	10	13	5	2				1	1	25	12	18	7
<i>Diplacodes trivialis</i>	2	8	3	4	4				2		1		
<i>Hydrobasileus brevistylus</i>	14	9	5	1			2				2	10	5
<i>Lathrecista asiatica festa</i>						1							
<i>Macrodiplax cora</i>	3	3	2	3	2	1						2	
<i>Nannodiplax rubra</i>	31	4	16	3				1	28		8	35	1
<i>Nannophlebia risi</i>	30	7	11	15	11				1	4	4	15	2
<i>Nannophya australis</i>	40	2	5	4	2			1	35	16	2	50	
<i>Orthetrum boumiera</i>	43	8	31	5	1					7	5	44	1
<i>Orthetrum caledonicum</i>	5	38	35	44	14	2	1	2	11	13	26	46	3
<i>Orthetrum migratum</i>												1	
<i>Orthetrum sabina</i>	24	11	26	15	2			1	4	5	9	11	
<i>Orthetrum serapia</i>			2										
<i>Orthetrum villosovittatum</i>	58	41	42	55	17	2	1	3	9	11	32	56	5
<i>Pantala flavescens</i>	5	4	10	6	2			2	1		1		
<i>Potamarcha congener</i>					1								

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Rhodothemis lieftincki</i>	14	13	9	4				1		3	1	8	
<i>Rhyothemis graphiptera</i>	41	5	14	6	3			2	1	1	17	27	4
<i>Rhyothemis Phyllis chloe</i>	37	15	5	1						1	11	30	3
<i>Rhyothemis princeps</i>							1						
<i>Tholymis tillarga</i>					1								
<i>Tramea eurybia</i>	43	1	1	2				1			5	32	1
<i>Tramea loewii</i>	35	15	29	14	6			2	18	21	9	20	2
<i>Tramea stenoloba</i>	6			1									
<i>Urothemis aliena</i>	3			1							3	2	1
<i>Zyxomma elgneri</i>	26	10	4	1						1	1	5	
Genera incertae sedis													
<i>Austrocordulia refracta</i>	10	1								1	3	3	3
<i>Cordulephya pygmaea</i>	1		5	10	12								6
<i>Micromidia-atrifrons</i>	4	8	3	2							1	3	1
<i>Micromidia convergens</i>	7	3										2	



DRP Darling Riverine Plains 10,699,769 ha

Alluvial fans and plains; summer/winter rainfall in catchments, including occasional cyclonic influence; grey clays; woodlands and open woodlands dominated by *Eucalyptus* spp.

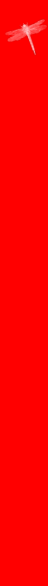


Species 28 Specimens 555 Adults 70 Larvae 485

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes analis</i>										1			
<i>Austrolestes aridus</i>			2						1				
<i>Austrolestes leda</i>						1			3	2	1		
<i>Austrolestes psyche</i>	2												
Family Platycnemidae													
<i>Nososticta solida</i>	1												
Family Coenagrionidae													
<i>Ischnura aurora</i>	1	1	2		1						1	1	
<i>Ischnura heterosticta</i>		1										1	
<i>Xanthagrion erythroneurum</i>	4	1						1				4	
Family Aeshnidae													
<i>Austrogynacantha heterogena</i>	2												
<i>Hemianax papuensis</i>	1		2						1				1
Family Gomphidae													
<i>Antipodogomphus acolythus</i>										1			
<i>Austrogomphus australis</i>										1		2	
Family Synthemistidae													
<i>Parasynthemis regina</i>													1

The Distribution of Australian Dragonflies

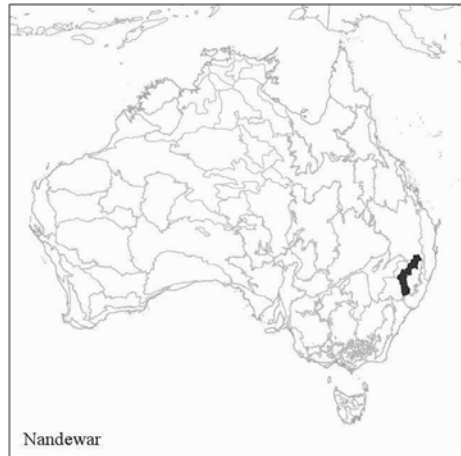
	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Corduliidae													
<i>Hemicordulia tau</i>	1			1					1	1			
Family Libellulidae													
<i>Diplacodes bipunctata</i>	1		2		3			1				2	
<i>Diplacodes haematodes</i>	1												
<i>Orthetrum caledonicum</i>	2		1		2			1				1	



NAN Nandewar

2,701,977 ha

Hills on Palaeozoic sediments;
lithosols and earths;
Eucalyptus albens woodlands;
summer rainfall.



Species 61 Specimens 942 Adults 549 Larvae 393

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Order Odonata													
Family Synlestidae													
<i>Episynlestes albicauda</i>											1		
<i>Synlestes selysi</i>												1	
<i>Synlestes weyersii</i>	1	3	1										
Family Lestidae													
<i>Austrolestes analis</i>	1	1											
<i>Austrolestes annulosus</i>	1												
<i>Austrolestes cingulatus</i>	2	1											
<i>Austrolestes leda</i>	1	2	1								2		1
<i>Austrolestes psyche</i>	7				1						2		
Family Argiolestidae													
<i>Austroargiolestes brookhousei</i>	1												
<i>Austroargiolestes icteromelas</i>	10	3	2	1					1	3	5	1	
<i>Griseargiolestes eboracus</i>		3											
Family Lestoideidae													
<i>Diphlebia lestoides</i>				1									
<i>Diphlebia nymphoides</i>	5		1	1								8	

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Platycnemididae													
<i>Nososticta solida</i>	16	4	4	4	1						10	2	
Family Coenagrionidae													
<i>Austroagrion watsoni</i>	1		2	13	2						6		
<i>Ischnura aurora</i>				2									
<i>Ischnura heterosticta</i>			5	4									
<i>Pseudagrion aureofrons</i>	6		4	4	1						7	20	
<i>Pseudagrion cingillum</i>													
<i>Xanthagrion erythreum</i>	1		6		1					4	9		
Family Aeshnidae													
<i>Austroaeschna parvistigma</i>		1				1							
<i>Austroaeschna pulchra</i>		2	1										
<i>Austroaeschna sigma</i>	2		4	1									3
<i>Austroaeschna subapicalis</i>		2											
<i>Austroaeschna unicornis</i>	1		1										
<i>Hemianax papuensis</i>	4	4	3		2					2	5		
<i>Notoaeschna geminata</i>	1												
<i>Telephlebia godeffroyi</i>		3					1						
Family Gomphidae													
<i>Antipodogomphus acolythus</i>												5	
<i>Antipodogomphus dentosus</i>													
<i>Austroepigomphus praeruptus</i>	1											1	
<i>Austrogomphus amphiclitus</i>	1	1	1									11	
<i>Austrogomphus australis</i>	2		1								3	2	
<i>Austrogomphus cornutus</i>	2	2	10								5	14	
<i>Austrogomphus divaricatus</i>													
<i>Austrogomphus guerini</i>											1		1
<i>Austrogomphus ochraceus</i>	1	11											
<i>Hemigomphus gouldii</i>												1	
<i>Hemigomphus heteroclytus</i>	10	4	4	2	2						8	6	
Family Synthemistidae													
<i>Eusynthemis aurolineata</i>	4	2										1	1
<i>Eusynthemis brevistyla</i>		1											
<i>Parasynthemis regina</i>				1								2	
<i>Synthemis eustalacta</i>		2											
Family Corduliidae													
<i>Hemicordulia australiae</i>				1	1								
<i>Hemicordulia intermedia</i>												4	



The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Hemicordulia superba</i>			1								1	4	
<i>Hemicordulia tau</i>	1	1		1	3				1	1	3		1
Family Libellulidae													
<i>Crocothemis nigrifrons</i>		1	1									2	
<i>Diplacodes bipunctata</i>	1	4	5	1	3				2	5	8		
<i>Diplacodes haematodes</i>	14	4	5	5	2				3	4	18		
<i>Diplacodes melanopsis</i>	1												
<i>Nannophlebia risi</i>		1	1								2		
<i>Orthetrum caledonicum</i>	10	3	4	5	2					3	9		1
<i>Orthetrum villosovittatum</i>	1		1	1							1		
<i>Pantala flavescens</i>	1												
<i>Tramea loewii</i>			1										
Genera incertae sedis													
<i>Apocordulia macrops</i>													1

NET New England Tablelands 3,002,213 ha

Elevated plateau of hills and plains on Palaeozoic sediments, granites and basalts; dominated by stringy bark/peppermint/box species, including *Eucalyptus caliginosa*, *E. nova-anglica*, *E. melliodora* and *E. blakleyi*.



Species 82 Specimens 2537 Adults 2318 Larvae 219

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synlestidae													
<i>Episynlestes albicauda</i>	3												
<i>Synlestes selysi</i>	3			1								1	
<i>Synlestes weyersii</i>	32	13	2	41							9	24	2
Family Lestidae													
<i>Austrolestes analis</i>	1	1	2							1	3		
<i>Austrolestes annulosus</i>		4		5	3					2		6	
<i>Austrolestes cingulatus</i>	36	17	4	4						9	18	13	3
<i>Austrolestes leda</i>	18	3	6	3					2	7	9	14	
<i>Austrolestes minjerriba</i>		1	1										
<i>Austrolestes psyche</i>	49	3		3									
Family Argiolestidae													
<i>Austroargiolestes alpinus</i>	13	2								1	1	1	1
<i>Austroargiolestes amabilis</i>	1										1	4	
<i>Austroargiolestes brookhousei</i>	2											1	
<i>Austroargiolestes icteromelas</i>	127	43	5	4					2	13	49	31	6
<i>Griseargiolestes eboracus</i>	42	3	1	1						5	8	21	2
<i>Griseargiolestes fontanus</i>	1											2	

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestoideidae													
<i>Diphlebia coerulescens</i>												1	
<i>Diphlebia lestoides</i>	1									2	8	7	
<i>Diphlebia nymphoides</i>	18	3	1							2	12	6	
Family Isostictidae													
<i>Neosticta canescens</i>											5	8	
<i>Rhadinosticta simplex</i>	2	3											
Family Platycnemidae													
<i>Nososticta solida</i>	12	4	2	1		1					13	2	
Family Coenagrionidae													
<i>Agriocnemis pygmaea</i>											1		
<i>Austroagrion watsoni</i>	19	14	1	1					9	2	12	6	1
<i>Ausrocoenagrion lyelli</i>	2									1	3	2	2
<i>Caliagrion billinghursti</i>	3	4									1	2	1
<i>Ischnura aurora</i>	5	3	1	2				1	1	5	2		
<i>Ischnura heterosticta</i>	31	8		3						5	16	7	
<i>Pseudagrion aureofrons</i>	2	1	1	1							3	1	
<i>Pseudagrion ignifer</i>	1	3											
<i>Pseudagrion microcephalum</i>													1
<i>Xanthagrion erythroneurum</i>	2	9	1	3	1					1	10	8	
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	15	4	1	4						2	2	6	4
<i>Austroaeschna parvistigma</i>	9	10	3									5	2
<i>Austroaeschna pulchra</i>	11	4	1	2								7	2
<i>Austroaeschna sigma</i>	5	1										6	1
<i>Austroaeschna subapicalis</i>	3											1	
<i>Austroaeschna unicornis</i>	2	6	4									5	
<i>Austrogynacantha heterogena</i>	1						1						
<i>Austrophlebia costalis</i>	1												
<i>Dendroaeschna conspersa</i>			1										
<i>Hemianax papuensis</i>	2	5	4	1					3	2	5	4	1
<i>Notoaeschna geminata</i>	5	2								4	6	5	
<i>Spinaeschna tripunctata</i>		2									4	1	
<i>Telephlebia godeffroyi</i>	4		1							1	3		1
Family Petaluridae													
<i>Petalura gigantea</i>	5											21	2
Family Gomphidae													
<i>Austroepigomphus praeruptus</i>	7	2		1								1	
<i>Austrogomphus amphi-clitus</i>	24	2	2	2								1	

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austrogomphus australis</i>	1										4	5	1
<i>Austrogomphus cornutus</i>	4	2	9								1	6	
<i>Austrogomphus guerini</i>	57	42	1	1						2	9	18	3
<i>Austrogomphus ochraceus</i>	16	33	5							1	6	13	
<i>Hemigomphus gouldii</i>	12	2									2	6	1
<i>Hemigomphus heteroclytus</i>	12	8	2	2					1	1	4	3	1
Family Synthemistidae													
<i>Archaeosynthemis orientalis</i>	21	1								1	2	3	
<i>Choristhemis flavoterminata</i>	22	7	1										
<i>Eusynthemis aurolineata</i>	19	1									4	7	2
<i>Eusynthemis brevistyla</i>	1	1									1	7	
<i>Eusynthemis nigra</i>	1											1	
<i>Eusynthemis rentziana</i>												3	
<i>Eusynthemis virgula</i>	1	2									5	7	
<i>Parasynthemis regina</i>	6											2	
<i>Synthemis eustalacta</i>	36	8	4	2						1	5	16	5
<i>Tonyosynthemis ofarrelli</i>												2	
Family Corduliidae													
<i>Hemicordulia australiae</i>	18	7		1							4	1	2
<i>Hemicordulia intermedia</i>	1	2	1									4	
<i>Hemicordulia tau</i>	1	6	3	2					1	5	9	8	1
<i>Procordulia jacksoniensis</i>	11	3	1							1	3	1	
Family Libellulidae													
<i>Diplacodes bipunctata</i>	16	13	10	8	1					3	22	7	
<i>Diplacodes haematodes</i>	20	11	8	6					1	3	22	5	
<i>Diplacodes melanopsis</i>	4	1	3	2							2		
<i>Diplacodes nebulosa</i>													
<i>Nannophlebia risi</i>		2										1	
<i>Nannophya australis</i>	25	2	1							3	3		
<i>Nannophya dalei</i>	16	1								2	6	4	1
<i>Orthetrum caledonicum</i>	19	10	1	4					1	1	8	6	
<i>Orthetrum villosovittatum</i>	11	3		3							1	5	
<i>Rhyothemis graphiptera</i>	2												
<i>Tramea loewii</i>		1		2									
Genera incertae sedis													
<i>Austrocordulia refracta</i>	1									1			
<i>Cordulephya montana</i>	10											1	
<i>Cordulephya pygmaea</i>		2	4	1		1							
<i>Micromidia-atrifrons</i>													1

NNC

NSW North Coast

3,996,591 ha

Humid; hills, coastal plains and sand dunes; *Eucalyptus - Lophostemon confertus* tall open forests, *Eucalyptus* open forests and woodlands, sub-tropical rainforest often with *Araucaria cunninghamii* (complex notophyll and microphyll vine forest), *Melaleuca quinquenervia* wetlands, and heaths.



Species 108 Specimens 2805 Adults 2558 Larvae 247

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synlestidae													
<i>Episynlestes albicauda</i>	4		4		1							1	1
<i>Synlestes selysi</i>	5	1		2	1	4						1	
<i>Synlestes weyersii</i>	14	7	6	7	1						22	17	3
Family Lestidae													
<i>Austrolestes analis</i>	6	4									1	1	1
<i>Austrolestes aridus</i>												1	
<i>Austrolestes cingulatus</i>	2	3		1						2	16	5	2
<i>Austrolestes leda</i>	6	8		1						2	4	5	
<i>Austrolestes minjerriba</i>	1	2	1	1	1				2	4	1	1	
<i>Austrolestes psyche</i>	6	9		4	3	1				15	4	5	2
Family Argiolestidae													
<i>Austroargiolestes alpinus</i>		3											
<i>Austroargiolestes amabilis</i>	4	1									4	16	1
<i>Austroargiolestes brookhousei</i>	12										2	9	5
<i>Austroargiolestes christine</i>	3	1									1	17	27
<i>Austroargiolestes icteromelas</i>	26	15	9	2	1			1		20	51	137	9
<i>Griseargiolestes albescens</i>	2			2	2	1				4		1	
<i>Griseargiolestes bucki</i>	6	1									2	23	10

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Griseargiolestes eboracus</i>	23	5								2	6	9	15
<i>Griseargiolestes fontanus</i>												5	
Family Lestoideidae													
<i>Diphlebia coerulescens</i>	1									2		5	
<i>Diphlebia lestoides</i>	7	1								3	3	30	8
<i>Diphlebia nymphoides</i>	14	1								4	62	3	1
Family Isostictidae													
<i>Neosticta canescens</i>	5	1									10	9	1
<i>Rhadinosticta simplex</i>	13	15	1	1						3			
Family Platycnemidae													
<i>Nososticta solida</i>	12	7	1							1	41	7	
Family Coenagrionidae													
<i>Agriocnemis pygmaea</i>	5	11	2	3	2					3	2	2	
<i>Argiocnemis rubescens</i>	2	1	1		1					4	4	4	
<i>Austroagrion watsoni</i>	8	7		1						5	3	4	1
<i>Austrocnemis splendida</i>										1			
<i>Ausrocoenagrion lyelli</i>												1	
<i>Ischnura aurora</i>	1	2	1							2	1		
<i>Ischnura heterosticta</i>	3	1	2	1			1		1	2	55	1	3
<i>Pseudagrion aureofrons</i>	3	4	2								28	1	1
<i>Pseudagrion ignifer</i>	1	9	1	2						1	17	6	5
<i>Pseudagrion microcephalum</i>		2		1						1	1	1	
<i>Xanthagrion erythroneurum</i>		1	1										2
Family Aeshnidae													
<i>Acanthaeschna victoria</i>												3	
<i>Adversaeschna brevistyla</i>	1	3								2	1	1	2
<i>Antipodophlebia asthenes</i>	1												1
<i>Austroaeschna parvistigma</i>	5	4		1							2	5	2
<i>Austroaeschna pulchra</i>	4	4	2	4		1		1				4	6
<i>Austroaeschna sigma</i>	16	5	5							1	3	7	21
<i>Austroaeschna subapicalis</i>	6	14									2	4	5
<i>Austroaeschna unicornis</i>		2	1	1					1				1
<i>Austrophlebia costalis</i>	1									1	4	4	3
<i>Dendroaeschna conspersa</i>					1								1
<i>Hemianax papuensis</i>	2	4	2	3						1	3	11	
<i>Notoaeschna geminata</i>	3			1					1	5	6	3	
<i>Spinaeschna tripunctata</i>	4									1	5	3	
<i>Telephlebia cyclops</i>	2											1	1



	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Telephlebia godeffroyi</i>	7										1	2	1
Family Petaluridae													
<i>Petalura gigantea</i>	6												2
<i>Petalura litorea</i>	1												
Family Gomphidae													
<i>Austrogomphus amphiplitus</i>	6	2	2	1						2	7	11	1
<i>Austrogomphus cornutus</i>	1		1	1							1	1	
<i>Austrogomphus guerini</i>	6									1	5	5	1
<i>Austrogomphus ochraceus</i>	23	6	2	1						1	15	20	2
<i>Hemigomphus gouldii</i>	4	3								1	4	8	
<i>Hemigomphus heteroclytus</i>	9	3	2							2	33	6	
<i>Ictinogomphus australis</i>	5												
Family Synthemistidae													
<i>Archaeosynthemis orientalis</i>	10		2								1	1	
<i>Choristhemis flavoterminalata</i>	9	4			1						3	4	
<i>Eusynthemis aurolineata</i>	6	13								2		17	14
<i>Eusynthemis brevistyla</i>		2									1	11	4
<i>Eusynthemis nigra</i>											1		
<i>Eusynthemis rentziana</i>	1										1	6	2
<i>Eusynthemis tillyardi</i>											1		
<i>Eusynthemis ursa</i>											2	1	
<i>Eusynthemis ursula</i>											5	5	
<i>Eusynthemis virgula</i>	2	2								1	3	5	
<i>Parasynthemis regina</i>	1	1									1	1	
<i>Synthemis eustalacta</i>	10	7	1							1	6	11	5
<i>Tonyosynthemis ofarrelli</i>	3												
Family Corduliidae													
<i>Hemicordulia australiae</i>	4	9	2	4						3	6	3	
<i>Hemicordulia continentalis</i>		5	2							1		1	
<i>Hemicordulia intermedia</i>	2										1	4	
<i>Hemicordulia superba</i>											1		
<i>Hemicordulia tau</i>	2	3	1	1							2	4	
<i>Procordulia jacksoniensis</i>		1	1								1	3	2
Family Libellulidae													
<i>Agrionoptera i.allogenes</i>		1											
<i>Austrothemis nigrescens</i>	4	4								11		3	
<i>Crocothemis nigrifrons</i>	3	4	1								1	2	
<i>Diplacodes bipunctata</i>	14	16		9	3					4	8	5	1

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Diplacodes haematodes</i>	14	12	3	4	1					3	30	5	3
<i>Diplacodes melanopsis</i>	1	3		1	1					1	2	1	
<i>Nannodiplax rubra</i>	3	2	1	1	1					2	2		
<i>Nannophlebia risi</i>	11	5	2	3	1					9	4	6	
<i>Nannophya australis</i>	5	4	1							6		5	1
<i>Nannophya dalei</i>	11									2	7	7	2
<i>Orthetrum boumiera</i>	3	2		1									
<i>Orthetrum caledonicum</i>	13	5	1	1						1	4	4	1
<i>Orthetrum sabina</i>	3	9		2						2	2	1	
<i>Orthetrum villosovittatum</i>	10	12	1	2	3					3	2	4	1
<i>Pantala flavescens</i>		1		1									
<i>Rhyothemis graphiptera</i>	3	3									2	2	
<i>Rhyothemis phyllis</i>	1	5										1	
<i>Tramea eurybia</i>	1	2											
<i>Tramea loewii</i>	4	7	1	1					1	1	1	1	
<i>Zyxomma elgneri</i>	1												
Genera incertae sedis													
<i>Austrocordulia refracta</i>											2	1	
<i>Cordulephya montana</i>												1	
<i>Cordulephya pygmaea</i>			1	1									
<i>Micromidia convergens</i>				1									

MDD Murray Darling Depression 19,958,349 ha

An extensive gently undulating sand and clay plain of Tertiary and Quaternary age frequently overlain by aeolian dunes. Vegetation consists of semi-arid woodlands of Black Oak / Belah, Bullock Bush/ Rosewood (*Alectryon oleifolius*) and *Acacia* spp., mallee shrublands and heathlands and savanna woodlands.



The region is known in Victoria as the Victorian Mallee region and characteristically has few surface water bodies

because its soils are highly permeable and its climate promotes high evaporative losses. Approximately 70 per cent of Victoria's mallee vegetation has been cleared and as a direct consequence of farming practices, the 1930s saw a part of the Victorian Mallee become one of the worst wind eroded areas in Australia. Substantial areas of mallee remain today in the western aeolian dunes, mainly in South Australia and but also western NSW. Clearing has also been widespread in the north eastern portion of the bioregion in NSW particularly on the undulating plains and relict river channels and lakes associated with the Murray and Darling Rivers.

Species 29 Specimens 586 Adults 449 Larvae 137

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes analis</i>			1									4	1
<i>Austrolestes annulosus</i>	2	1	1			1			1	11	2	3	1
<i>Austrolestes aridus</i>	2	1							1	7		6	
<i>Austrolestes leda</i>	1		3						9	9		3	1
<i>Lestes concinnus</i>													
Family Argiolestidae													
<i>Austroargiolestes icteromelas</i>	2												

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Isostictidae													
<i>Rhadinosticta simplex</i>		2											
Family Platycnemidae													
<i>Nososticta solida</i>		2									1		
Family Coenagrionidae													
<i>Austroagrion watsoni</i>		1										1	
<i>Ischnura aurora</i>	6	1	13			1	1		1	7	4	9	
<i>Ischnura heterosticta</i>	4	7	3	2	1				1	5	1	2	1
<i>Pseudagrion aureofrons</i>		1							3				
<i>Xanthagrion erythroneurum</i>	6	7	5	1	3	1			1	13	5	3	1
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>		1								1	3	1	
<i>Austroaeschna subapicalis</i>	1												
<i>Austroaeschna unicornis</i>													1
<i>Hemianax papuensis</i>	3	4	4					1	2	4	3	3	
Family Gomphidae													
<i>Austroepigomphus praeruptus</i>													1
<i>Austrogomphus australis</i>	2	3									1	13	
<i>Austrogomphus bifurcatus</i>													
Family Corduliidae													
<i>Hemicordulia australiae</i>											1		
<i>Hemicordulia tau</i>	2	1	2	1	1	1			2	15	16	7	
Family Libellulidae													
<i>Austrothemis nigrescens</i>	1												
<i>Crocothemis nigrifrons</i>	1												
<i>Diplacodes bipunctata</i>	5	1	9		1	1	1		7	32	10	7	
<i>Diplacodes haematodes</i>		1											
<i>Orthetrum caledonicum</i>	5	4	6							4	3	3	
<i>Orthetrum migratum</i>													
<i>Pantala flavescens</i>			5										
<i>Tramea loewii</i>			1										



COP Cobar Peneplain

7,385,346 ha

Undulating plains and low hills on Palaeozoic rocks; earths, lithosols; *Eucalyptus populnea* and *E. intertexta* woodlands with mulga (*Acacia aneura*) in the more arid areas. Semi-arid climate.



Species 19 Specimens 126 Adults 88 Larvae 38

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes aridus</i>			2										
<i>Austrolestes leda</i>			3										
Family Coenagrionidae													
<i>Ischnura aurora</i>	3		29	1									
<i>Xanthagrion erythroneurum</i>			4							3			
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>			1										
<i>Austrogynacantha heterogena</i>			2										
<i>Hemianax papuensis</i>			3										
Family Gomphidae													
<i>Austrogomphus australis</i>	1		1								1	1	
Family Corduliidae													
<i>Hemicordulia tau</i>			1						1				
Family Libellulidae													
<i>Diplacodes bipunctata</i>			21	2									
<i>Diplacodes haematodes</i>			3										
<i>Orthetrum caledonicum</i>			5										

SYB Sydney Basin

3,629,597 ha

Mesozoic sandstones and shales; dissected plateaus; forests, woodlands and heaths; skeletal soils, sands and podzolics.



Species 86 Specimens 3147 Adults 3115 Larvae 32

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synlestidae													
<i>Synlestes selysi</i>		3	7	6	3					1	2	1	
<i>Synlestes weyersii</i>	19	7	7	10	6					1	9	21	8
Family Lestidae													
<i>Austrolestes analis</i>	12	6	2	2	2						5	1	
<i>Austrolestes annulosus</i>	2	3	1	1							3		1
<i>Austrolestes aridus</i>			1	3									
<i>Austrolestes cingulatus</i>	2	2	2	1						8	3	2	
<i>Austrolestes io</i>	1										1		
<i>Austrolestes leda</i>	18	4	7	3		2		6	14	12	11	19	3
<i>Austrolestes psyche</i>	14	8	3	7	2					2	15	7	
Family Argiolestidae													
<i>Austroargiolestes icteromelas</i>	25	13	11	6	2	1		1	8	7	33	50	8
<i>Austroargiolestes isabellae</i>	6							4	5	14	21	27	
<i>Griseargiolestes griseus</i>	38	17	4	2					1	4	21	32	23
Family Lestoideidae													
<i>Diphlebia lestoides</i>									5	11	10	17	1

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Diphlebia nymphoides</i>				1								5	
Family Isostictidae													
<i>Neosticta canescens</i>	2								1	1	6	15	17
<i>Rhadinosticta simplex</i>	9	5	11	3						2	7	11	1
Family Platycnemidae													
<i>Nososticta solida</i>	7	1	1							3	8	3	
Family Coenagrionidae													
<i>Agriocnemis pygmaea</i>	2	6								2	8	7	
<i>Argiocnemis rubescens</i>	3	2	1							3	1	1	1
<i>Austroagrion watsoni</i>	8	10	3	2					1	3	14	21	3
<i>Austrocnemis splendida</i>											1	1	
<i>Caliagrion billinghursti</i>				1							10	5	3
<i>Ischnura aurora</i>	16	3	2	1	1				1	3	4	13	4
<i>Ischnura heterosticta</i>	14	7	4	7	1			1	3	17	13	6	15
<i>Pseudagrion aureofrons</i>				1									
<i>Pseudagrion microcephalum</i>											6	2	1
<i>Xanthagrion erythroneurum</i>	5	5	2	2					1	2	5	5	2
Family Austropetaliidae													
<i>Austropetalia patricia</i>					1				1	16	11	2	4
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	16	10	5	1	1				2	7	9	16	5
<i>Antipodophlebia asthenes</i>												5	
<i>Austroaeschna obscura</i>	17	13	4	5	4					1	8	10	3
<i>Austroaeschna parvistigma</i>		2	1	4							2	2	
<i>Austroaeschna pulchra</i>	10	2	6	6							2	4	4
<i>Austroaeschna sigma</i>	1	1		2	1						1	1	
<i>Austroaeschna subapicalis</i>	8	9		2						1	1	5	1
<i>Austroaeschna unicornis</i>	4		2	9						2		1	4
<i>Austrophlebia costalis</i>	1	4	1						1	2	1	5	
<i>Dendroaeschna conspersa</i>			8	12	2				1			3	1
<i>Hemianax papuensis</i>	10	7	8	2			1	3	9	9	11	7	
<i>Notoaeschna sagittata</i>	4									3	5	5	2
<i>Telephlebia godeffroyi</i>	20	8	6	1						1	10	23	10
Family Petaluridae													
<i>Petalura gigantea</i>	186	27	1			1				2	43		
Family Gomphidae													
<i>Austroepigomphus praeruptus</i>	3		1							1	4	3	3
<i>Austrogomphus amphiclitus</i>	1	1	1									3	2

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austrogomphus cornutus</i>		1	2	2							1	3	
<i>Austrogomphus guerini</i>	11	5		1						9	6	7	6
<i>Austrogomphus ochraceus</i>	11	10	4	2					1	1	16	39	9
<i>Hemigomphus gouldii</i>	7	5								1	4	33	10
<i>Hemigomphus heteroclytus</i>	3		1	1					1	1		1	2
<i>Ictinogomphus australis</i>													2
Family Synthemistidae													
<i>Archaeosynthemis orientalis</i>	20	3								1	6	7	1
<i>Choristhemis flavoterminata</i>	10	2	1	4	1						8	22	2
<i>Eusynthemis aurolineata</i>		1											
<i>Eusynthemis brevistyla</i>	1	2									4	1	1
<i>Eusynthemis guttata</i>												2	
<i>Eusynthemis rentziana</i>											1		
<i>Eusynthemis tillyardi</i>	16	7	1	1						4	16	27	5
<i>Eusynthemis virgula</i>	1				3				1		2	9	9
<i>Parasynthemis regina</i>	4		2								1	5	
<i>Synthemis eustalacta</i>	9	5	2	1							6	9	3
Family Corduliidae													
<i>Hemicordulia australiae</i>	16	17	11	10					3	4	13	19	1
<i>Hemicordulia tau</i>	7	5	3	3					2	11	10	10	
<i>Procordulia jacksoniensis</i>	4									1	2	5	
Family Libellulidae													
<i>Crocothemis nigrifrons</i>												1	1
<i>Diplacodes bipunctata</i>	11	11	6	15	2					6	5	11	1
<i>Diplacodes haematodes</i>	6	7	4	4						2	13	13	
<i>Diplacodes melanopsis</i>	3	2							1		2	3	1
<i>Nannophlebia risi</i>			1	1	1					1	1	5	
<i>Nannophya australis</i>	3	2									6	1	3
<i>Nannophya dalei</i>	7	2								1		22	
<i>Orthetrum caledonicum</i>	16	15	3	5						3	8	12	
<i>Orthetrum sabina</i>	2	4	3	1							1		
<i>Orthetrum villosovittatum</i>	12	5	4	4						1	4	6	
<i>Pantala flavescens</i>	1		4	1							1		3
<i>Rhyothemis graphiptera</i>	3										1	8	1
<i>Tramea loewii</i>	1	2	5						2	5	3		
Genera incertae sedis													
<i>Archaeophya adamsi</i>		1										3	2
<i>Austrocordulia leonardi</i>										1	8	4	1

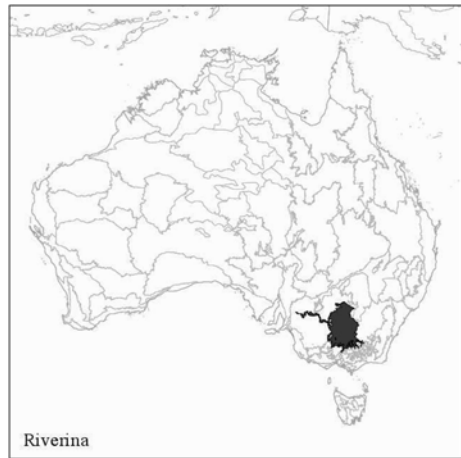
The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austrocordulia refracta</i>									2	2	8	6	
<i>Cordulephya divergens</i>			1	1	1								
<i>Cordulephya montana</i>		2	1									1	2
<i>Cordulephya pygmaea</i>		1	16	15	5	3					1	1	3

RIV Riverina

9,704,469 ha

An ancient riverine plain and alluvial fans composed of unconsolidated sediments with evidence of former stream channels. The Murray and Murrumbidgee Rivers and their major tributaries, the Lachlan and Goulburn Rivers flow westwards across this plain. Vegetation consists of river red gum and black box forests, box woodlands, saltbush shrublands, extensive grasslands and swamp communities.



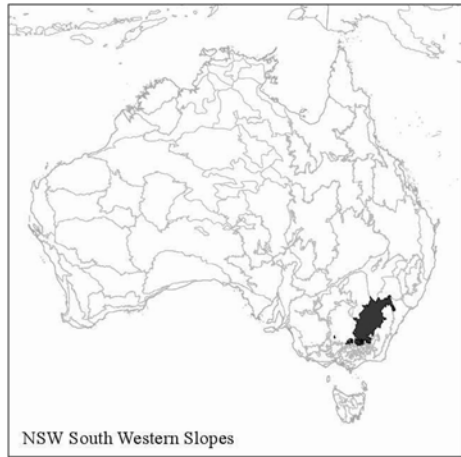
Species 46 Specimens 1369 Adults 635 Larvae 734

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synlestidae													
<i>Synlestes weyersii</i>	1	1									1		
Family Lestidae													
<i>Austrolestes analis</i>	1	4	2	2							6	5	
<i>Austrolestes annulosus</i>	1	2	4	1						2	1	4	
<i>Austrolestes aridus</i>											1	1	
<i>Austrolestes leda</i>	7	3	3		1			1		1	3	8	
Family Argiolestidae													
<i>Austroargiolestes calcaris</i>											1		
<i>Austroargiolestes icteromelas</i>	2	1										3	
Family Lestoideidae													
<i>Diphlebia nymphoides</i>	2	1											
Family Isostictidae													
<i>Rhadinosticta simplex</i>	1		1										
Family Platycnemidae													
<i>Nososticta solida</i>	18	14	4									10	
Family Coenagrionidae													
<i>Austroagrion watsoni</i>		4	1							2	1	1	
<i>Ischnura aurora</i>	8	14	6	4				2	2	5	2	4	1

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Ischnura heterosticta</i>	16	19	5	4					1	2	5	11	
<i>Pseudagrion aureofrons</i>		9								1		2	
<i>Xanthagrion erythroneurum</i>	7	25	13	5						5	2	23	2
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>		3	1									2	
<i>Austroaeschna multipunctata</i>		1									1	1	
<i>Austroaeschna unicornis</i>	2	1		1									
<i>Hemianax papuensis</i>	5	2	3							3	1	1	2
<i>Notoaeschna sagittata</i>		1											
<i>Telephlebia brevicauda</i>	1	1											
Family Gomphidae													
<i>Antipodogomphus acolythus</i>												1	
<i>Austroepigomphus praeurptus</i>	3	1											
<i>Austrogomphus angelorum</i>	1										2	2	
<i>Austrogomphus australis</i>	8	2	3								5	16	2
<i>Austrogomphus cornutus</i>	2		1									3	
<i>Austrogomphus guerini</i>	1	4											
<i>Austrogomphus ochraceus</i>	5		2								1	4	
<i>Hemigomphus gouldii</i>	4	1	1								1	1	
Family Synthemistidae													
<i>Eusynthemis brevistyla</i>		2											
<i>Eusynthemis guttata</i>	1												
<i>Eusynthemis virgula</i>	1									1	1	2	
<i>Parasynthemis regina</i>	6	6										1	
Family Corduliidae													
<i>Hemicordulia australiae</i>	2	2										1	
<i>Hemicordulia tau</i>	4	7	4	3	1				3	3	3	1	1
Family Libellulidae													
<i>Diplacodes bipunctata</i>	10	20	11	6						5	4	8	
<i>Diplacodes haematodes</i>		4								1			
<i>Diplacodes melanopsis</i>	2	1								1	1	4	
<i>Nannophlebia risi</i>	7												
<i>Orthetrum caledonicum</i>	7	21	8	1						2	1	3	
Genera incertae sedis													
<i>Apocordulia macrops</i>												1	
<i>Cordulephya pygmaea</i>			1										

NSS NSW South Western Slopes 8,681,126 ha

An extensive area of foothills and isolated ranges comprising the lower inland slopes of the Great Dividing Range extending through southern New South Wales to western Victoria. Vegetation consists of wet/damp sclerophyll forests, peppermint forests and box/ironbark woodlands. Extensively cleared for agriculture.



Species 56 Specimens 950 Adults 306 Larvae 644

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synlestidae													
<i>Synlestes weyersii</i>	4	3	1	1									
Family Lestidae													
<i>Austrolestes analis</i>	1									1	5	6	
<i>Austrolestes annulosus</i>	5							1				1	
<i>Austrolestes aridus</i>									1				
<i>Austrolestes cingulatus</i>	1												
<i>Austrolestes leda</i>	6	1		1				2		5		1	
<i>Austrolestes psyche</i>											2		
Family Argiolestidae													
<i>Austroargiolestes icteromelas</i>	10	5								1	2	2	
<i>Griseargiolestes intermedius</i>	1												
Family Lestoideidae													
<i>Diphlebia lestoides</i>												1	
<i>Diphlebia nymphoides</i>										1			
Family Platycnemidae													
<i>Nososticta solida</i>			1									1	
Family Coenagrionidae													
<i>Austroagrion watsoni</i>	2	1								1	2		

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Ischnura aurora</i>		3	2	1						5		4	
<i>Ischnura heterosticta</i>	3	5	3									2	
<i>Pseudagrion aureofrons</i>		1										1	
<i>Xanthagrion erythroneurum</i>	6	3										1	
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	1			2							1		
<i>Austroaeschna inermis</i>			1										
<i>Austroaeschna multipunctata</i>	1	2											
<i>Austroaeschna pulchra</i>	1	3	1										1
<i>Austroaeschna unicornis</i>	1	2											
<i>Austrogynacantha heterogena</i>		1											1
<i>Hemianax papuensis</i>			4	1					2	2		1	1
<i>Notoaeschna sagittata</i>		3											
<i>Spinaeschna tripunctata</i>										1			
<i>Telephlebia brevicauda</i>		1											
Family Gomphidae													
<i>Austrogomphus amphiplitus</i>		1											
<i>Austrogomphus cornutus</i>												1	1
<i>Austrogomphus guerini</i>	2	4	1									1	
<i>Austrogomphus ochraceus</i>	2	1											
<i>Hemigomphus gouldii</i>	3												
<i>Hemigomphus heteroclytus</i>			2									2	
Family Synthemistidae													
<i>Eusynthemis brevistyla</i>	3	1											
<i>Eusynthemis guttata</i>	2	1											
<i>Eusynthemis virgula</i>	4												
<i>Parasynthemis regina</i>	4	1											
<i>Synthemis eustalacta</i>	6												
Family Corduliidae													
<i>Hemicordulia australiae</i>	6										1		
<i>Hemicordulia tau</i>	3	1	3							5	3		
Family Libellulidae													
<i>Diplacodes bipunctata</i>	5	2	1	2					5	8	6	5	
<i>Diplacodes haematodes</i>	1	3	1								3	1	
<i>Diplacodes melanopsis</i>	3												
<i>Nannophya dalei</i>										1			
<i>Orthetrum caledonicum</i>	6	6	2							1	1	1	
<i>Orthetrum villosovittatum</i>	1												1

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Genera incertae sedis													
<i>Apocordulia macrops</i>	15												2
<i>Austrocordulia refracta</i>	1												



SEH South Eastern Highlands 8,375,961 ha

Steep dissected and rugged ranges extending across southern and eastern Victoria and southern NSW. Geology predominantly Palaeozoic rocks and Mesozoic rocks. Vegetation predominantly wet and dry sclerophyll forests, woodland, minor cool temperate rainforest and minor grassland and herbaceous communities. Large areas, particularly in the Box-Ironbark Forests, were felled for fuel and timber for the mines during the gold rushes in Victoria. Large areas have also been cleared in NSW for grazing or plantations.



Species 78 Specimens 5757 Adults 5072 Larvae 685

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Hemiphlebiidae													
<i>Hemiphlebia mirabilis</i>	3	1									3		2
Family Synlestidae													
<i>Synlestes weyersii</i>	100	114	43	24	4				2	3	15	58	1
Family Lestidae													
<i>Austrolestes analis</i>	43	18	5	3							20	36	
<i>Austrolestes annulosus</i>	5	7	8	1					1	1	5	1	
<i>Austrolestes aridus</i>								1					6
<i>Austrolestes cingulatus</i>	22	20	5							1	17	41	
<i>Austrolestes io</i>				1			1			6		1	
<i>Austrolestes leda</i>	15	8	6	1				9	6	25	26	37	
<i>Austrolestes psyche</i>	4	3	2	1					1	7	15	9	
Family Argiolestidae													
<i>Austroargiolestes calcaris</i>	31	6	2							9	31	80	
<i>Austroargiolestes icteromelas</i>	99	77	9	1					2	26	71	172	2
<i>Griseargiolestes eboracus</i>	11										3	8	1

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Griseargiolestes griseus</i>	26	1									8	3	
<i>Griseargiolestes intermedius</i>	10		2							1	3	15	1
Family Lestoideidae													
<i>Diphlebia lestoides</i>	22	1								1	30	84	
<i>Diphlebia nymphoides</i>	35	7									5	24	3
Family Isostictidae													
<i>Neosticta canescens</i>	2											2	
<i>Rhadinosticta simplex</i>	5	9	9	5								3	
Family Platynemidae													
<i>Nososticta solida</i>	11	6										13	
Family Coenagrionidae													
<i>Agriocnemis pygmaea</i>												1	
<i>Austroagrion watsoni</i>	48	25	12	2						2	13	35	1
<i>Austrocnemis splendida</i>	1	3									2	6	3
<i>Ausrocoenagrion lyelli</i>	1										9	8	
<i>Caliagrion billinghursti</i>												1	
<i>Ischnura aurora</i>	13	11	8	2						16	24	24	
<i>Ischnura heterosticta</i>	34	30	10	4						10	24	44	2
<i>Pseudagrion aureofrons</i>			10	1								6	
<i>Pseudagrion ignifer</i>	1												
<i>Xanthagrion erythroneurum</i>	8	10	9	2						1	5	20	1
Family Austropetalidae													
<i>Austropetalia tonyana</i>			1						1	6	18	3	2
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	31	12	10	2					2	9	30	58	1
<i>Austroaeshna atrata</i>	10	7	4	1							1	10	3
<i>Austroaeshna flavomaculata</i>	1										1		
<i>Austroaeshna inermis</i>	3	5	13	2							1		1
<i>Austroaeshna multipunctata</i>	14	60	29	13	5						2	7	23
<i>Austroaeshna obscura</i>	3		1								2	5	1
<i>Austroaeshna parvistigma</i>	15	5	4	1							2	9	
<i>Austroaeshna pulchra</i>	24	10	31	9						1	3	10	1
<i>Austroaeshna subapicalis</i>	19	10	8	3							1	3	2
<i>Austroaeshna unicornis</i>	22	16	28	9							1	5	2
<i>Austrophlebia costalis</i>												1	
<i>Dendroaeshna conspersa</i>			1								1	2	
<i>Hemianax papuensis</i>	17	8	12	2				4	4	4	2	12	
<i>Notoaeshna sagittata</i>	18	6	1								7	32	1



The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Spinaeschna tripunctata</i>	10	1									1	4	
<i>Telephlebia brevicauda</i>	45	17	11	3							1	18	3
<i>Telephlebia godeffroyi</i>	6		2	1								4	
Family Petaluridae													
<i>Petalura gigantea</i>	4	3										14	2
Family Gomphidae													
<i>Austrogomphus amphiplitus</i>												1	
<i>Austrogomphus cornutus</i>	4	3									1	4	1
<i>Austrogomphus guerini</i>	101	41	15	1							24	70	2
<i>Austrogomphus ochraceus</i>	19	6	2	1							4	5	
<i>Hemigomphus gouldii</i>	46	9	3	1					1		7	30	2
<i>Hemigomphus heteroclytus</i>	3		1									10	
Family Synthemistidae													
<i>Archaeosynthemis orientalis</i>	6	2	4									3	1
<i>Eusynthemis brevistyla</i>	82	7									16	89	1
<i>Eusynthemis guttata</i>	50	42	40	8							11	60	
<i>Eusynthemis tillyardi</i>	5	2										11	1
<i>Eusynthemis virgula</i>	27	6	4								6	16	2
<i>Parasynthemis regina</i>	2	2	2									1	
<i>Synthemis eustalacta</i>	44	29	13	1							3	43	1
Family Corduliidae													
<i>Hemicordulia australiae</i>	18	14	7	2	1						7	26	
<i>Hemicordulia superba</i>												2	
<i>Hemicordulia tau</i>	38	18	21	5	1				2	18	24	70	
<i>Procordulia jacksoniensis</i>	10	2								1	1	6	
Family Libellulidae													
<i>Diplacodes bipunctata</i>	30	20	13	6					13	28	26	19	
<i>Diplacodes haematodes</i>	3	2	3							2	1	3	1
<i>Diplacodes melanopsis</i>	13	11	6	2							7	18	
<i>Nannophlebia risi</i>												1	
<i>Nannophya dalei</i>	21	11	1							3	9	11	
<i>Orthetrum caledonicum</i>	54	31	20	1							13	42	
<i>Orthetrum villosovittatum</i>	1	2											
<i>Pantala flavescens</i>	1												
<i>Tramea loewii</i>	1	1	1								1		
Genera incertae sedis													
<i>Cordulephya montana</i>	2	2										1	
<i>Cordulephya pygmaea</i>	2	5	14	6	3								1

SEC South East Corner

2,532,053 ha

A series of deeply dissected near coastal ranges composed of Devonian granites and Palaeozoic sediments, inland of a series of gently undulating terraces (piedmont downs) composed of Tertiary sediments and flanked by Quaternary coastal plains, dune fields and inlets. The regional climate is strongly influenced by the Tasman Sea and the close proximity of the coast to the Great Dividing Range. Vegetation consists of high elevation woodlands, wet and damp sclerophyll forests interspersed with rain-shadow woodlands in the Snowy River Valley. Lowland and coastal sclerophyll forests, woodlands, warm temperate rainforest and coastal communities occur in the lower areas.



Species 71 Specimens 1230 Adults 1119 Larvae 111

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synlestidae													
<i>Synlestes selysi</i>		1		5									
<i>Synlestes weyersii</i>	44	15	10	5		1					4	14	
Family Lestidae													
<i>Austrolestes analis</i>	7	8								1	7	6	
<i>Austrolestes annulosus</i>				1									
<i>Austrolestes cingulatus</i>	12	4	2	1						2	4	4	
<i>Austrolestes io</i>		1								1		2	
<i>Austrolestes leda</i>	5									2	9	3	1
<i>Austrolestes psyche</i>	5	4								2	3	3	
Family Argiolestidae													
<i>Austroargiolestes calcaris</i>	1										5		
<i>Austroargiolestes icteromelas</i>	45	20	6	4							10	14	
<i>Griseargiolestes griseus</i>											1		3

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestoideidae													
<i>Diphlebia lestoides</i>	1										15	6	
<i>Diphlebia nymphoides</i>	7	6									1	2	
Family Isostictidae													
<i>Rhadinosticta simplex</i>	4	5	6	2									
Family Platycnemidae													
<i>Nososticta solida</i>	4	1										2	
Family Coenagrionidae													
<i>Argiocnemis rubescens</i>	1												
<i>Austroagrion watsoni</i>	23	9	3	4						3	6	9	2
<i>Austrocnemis splendida</i>	3	1								1	1		
<i>Ausrocoenagrion lyelli</i>		1										5	
<i>Caliagrion billinghursti</i>		1											
<i>Ischnura aurora</i>	6	5	2	1						2	11	10	
<i>Ischnura heterosticta</i>	13	6	3	3						2	4	5	
<i>Pseudagrion aureofrons</i>				1									
<i>Pseudagrion microcephalum</i>	4		1	1									
<i>Xanthagrion erythroneurum</i>	1	2											
Family Austropetaliidae													
<i>Austropetalia tonyana</i>										1			
Family Aeshnidae													
<i>Acanthaeschna victoria</i>													4
<i>Adversaeschna brevistyla</i>	16	6		3						3	8	1	
<i>Austroaeschna inermis</i>			2							1			
<i>Austroaeschna multipunctata</i>		1	4	1								1	
<i>Austroaeschna obscura</i>	1												
<i>Austroaeschna pulchra</i>	4	3	9	6						1			
<i>Austroaeschna subapicalis</i>	1		1										
<i>Austroaeschna unicornis</i>	7	11	5	2						1			1
<i>Austrophlebia costalis</i>	5	1	2								1		
<i>Dendroaeschna conspersa</i>			6	5									2
<i>Hemianax papuensis</i>	3	4	1						1	2	3		
<i>Notoaeschna sagittata</i>	1	3								1	4	3	
<i>Spinaeschna tripunctata</i>										3		3	
<i>Telephlebia brevicauda</i>	4												
<i>Telephlebia godeffroyi</i>	1	1											
Family Petaluridae													
<i>Petalura gigantea</i>												1	

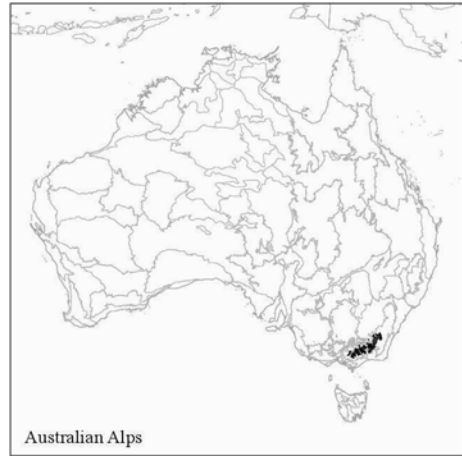
	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Gomphidae													
<i>Austrogomphus amphiclitus</i>	3									1			
<i>Austrogomphus cornutus</i>										1			
<i>Austrogomphus guerini</i>	22	13	3	2							3	8	
<i>Austrogomphus ochraceus</i>	25	8	3	4							1	6	
<i>Hemigomphus gouldii</i>	22	12	2							1	1	2	
<i>Hemigomphus heteroclytus</i>	1												
Family Synthemistidae													
<i>Archaeosynthemis orientalis</i>	1												
<i>Choristhemis flavoterminalata</i>	2		1										
<i>Eusynthemis brevistyla</i>	2	2										3	4
<i>Eusynthemis guttata</i>	2		1										
<i>Eusynthemis tillyardi</i>		1		1									
<i>Eusynthemis virgula</i>	3	7									4		1
<i>Synthemis eustalacta</i>	2	1								1			
Family Corduliidae													
<i>Hemicordulia australiae</i>	23	11	5	3							1	5	
<i>Hemicordulia tau</i>	1	1								1	5		
<i>Procordulia jacksoniensis</i>										1		1	
Family Libellulidae													
<i>Diplacodes bipunctata</i>	10	7	4	2						3	4	4	
<i>Diplacodes haematodes</i>	4	4	5	6							2	1	
<i>Diplacodes melanopsis</i>	9	5										2	
<i>Nannophlebia risi</i>			1										1
<i>Nannophya australis</i>	6		1										
<i>Nannophya dalei</i>	2										2	1	
<i>Orthetrum caledonicum</i>	13	8	5	3							3		1
<i>Orthetrum villosovittatum</i>	13	6	1										1
<i>Tramea loewii</i>	4												
Genera incertae sedis													
<i>Austrocordulia refracta</i>	3									2	4	3	
<i>Cordulephya montana</i>	2		1								1	3	1
<i>Cordulephya pygmaea</i>	2	1	7	1		2							1



AUA Australian Alps

1,232,981 ha

A series of high elevation plateaux capping the South Eastern Highlands (Region SEH) and the southern tablelands in NSW. The geology consists largely of granitic and basaltic rocks. Vegetation is dominated by alpine herbfields, and other treeless communities, snow gum woodlands and montane forests dominated by alpine ash. The Victorian Alps region essentially is bounded by the 1200 metre contour.



Species 46 Specimens 827 Adults 773 Larvae 54

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synlestidae													
<i>Synlestes weyersii</i>	5	9	4										
Family Lestidae													
<i>Austrolestes analis</i>	4	5	1										
<i>Austrolestes annulosus</i>			1										
<i>Austrolestes cingulatus</i>	6	18	3									4	
<i>Austrolestes leda</i>	4	6	2							2	1	2	
<i>Austrolestes psyche</i>	4	6	3									2	
Family Argiolestidae													
<i>Austroargiolestes calcaris</i>	34	11	1							1	1	23	1
<i>Austroargiolestes icteromelas</i>	5	5	1									7	
<i>Griseargiolestes intermedius</i>	8	34									1	4	
Family Lestoideidae													
<i>Diphlebia lestoides</i>												2	
Family Coenagrionidae													
<i>Austroagrion watsoni</i>	5	3										1	
<i>Ausrocoenagrion lyelli</i>		4											
<i>Ischnura aurora</i>	7	1	5								1	2	
<i>Ischnura heterosticta</i>	2	4									1		

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Xanthagrion erythroneurum</i>	3	2	1										
Family Austropetalidae													
<i>Austropetalia tonyana</i>											8		1
Family Aeshnidae													
<i>Acanthaeschna victoria</i>											2		
<i>Adversaeschna brevistyla</i>	4	2	1	1							1	2	
<i>Austroaeschna atrata</i>	11	3	3									1	
<i>Austroaeschna flavomaculata</i>	12	25	5										
<i>Austroaeschna inermis</i>	7	9	2	1							2		1
<i>Austroaeschna multipunctata</i>	4	10	5										
<i>Austroaeschna parvistigma</i>		2	1										
<i>Austroaeschna pulchra</i>	1	2											
<i>Austroaeschna subapicalis</i>		3	1										
<i>Austroaeschna unicornis</i>		1	1										1
<i>Hemianax papuensis</i>	5	2	3								2	1	
<i>Notoaeschna sagittata</i>	2		1										
<i>Telephlebia brevicauda</i>	15	18	4			1		1			2	1	1
Family Gomphidae													
<i>Austrogomphus guerini</i>	5	4	1							1		6	
<i>Austrogomphus ochraceus</i>			1										
<i>Hemigomphus gouldii</i>	2											5	
<i>Hemigomphus heteroclytus</i>												1	
Family Synthemiidae													
<i>Archaeosynthemis orientalis</i>	1	1											
<i>Eusynthemis brevistyla</i>	14	5										7	
<i>Eusynthemis guttata</i>	21	18	1									6	
<i>Eusynthemis tillyardi</i>												1	
<i>Eusynthemis virgula</i>	1											1	
<i>Synthemis eustalacta</i>	34	52	8								2	9	
Family Corduliidae													
<i>Hemicordulia tau</i>	7	3	1								1	4	
<i>Procordulia jacksoniensis</i>	4	6	1								1	4	
Family Libellulidae													
<i>Diplacodes bipunctata</i>	9	6									1	1	
<i>Nannophya australis</i>	1	1											
<i>Nannophya dalei</i>	6	32	1								1	3	
<i>Orthetrum caledonicum</i>			1										



VIM Victorian Midlands 3,469,789 ha

An extensive area of foothills and isolated ranges comprising the lower inland slopes of the Great Dividing Range extending from North-eastern Victoria to Casterton in Western Victoria. Large areas of the region were cleared during the gold rushes of the late nineteenth and early twentieth centuries so today it is characterised by patches of woodland and forest interspersed with a rural landscape with modified pastures and some cropping.



Vegetation includes most of the Box Ironbark Woodland in Victoria, as well as substantial areas of Eucalyptus forests and woodlands with a grassy ground layer.

The flatter and more fertile areas of the Victorian Midlands have been substantially cleared for agriculture, principally sheep and beef cattle grazing. Timber harvesting remains an important land use in the Victorian Midlands. Much of the forests were extensively cut for timber to meet the demands of the gold mining industry of last century. In the less fertile parts of the Victorian Midlands, substantial areas of native vegetation remain today in good condition, for example, the Grampians National Park.

Species 61 Specimens 1849 Adults 1361 Larvae 488

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Hemiphlebiidae													
<i>Hemiphlebia mirabilis</i>	6										5	48	38
Family Synlestidae													
<i>Synlestes weyersii</i>	6	2	5	2						1		4	
Family Lestidae													
<i>Austrolestes analis</i>	9	2	9							1	28	51	
<i>Austrolestes annulosus</i>	1	2	2						2	4	9	7	
<i>Austrolestes aridus</i>									2	4		8	

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austrolestes cingulatus</i>	1											2	
<i>Austrolestes io</i>										1	3	3	
<i>Austrolestes leda</i>	5		2					2	17	15	21	44	2
<i>Austrolestes psyche</i>	2										3	3	
Family Argiolestidae													
<i>Austroargiolestes calcaris</i>	2										1	1	
<i>Austroargiolestes icteromelas</i>	6	3	3						1	2	19	22	2
Family Lestoideidae													
<i>Diphlebia lestoides</i>											1		1
<i>Diphlebia nymphoides</i>										1		1	1
Family Platycnemidae													
<i>Nososticta solida</i>	1											3	1
Family Coenagrionidae													
<i>Austroagrion watsoni</i>	3		2								8	21	2
<i>Austrocnemis splendida</i>	1										1		
<i>Ausrocoenagrion lyelli</i>												8	
<i>Caliagrion billinghursti</i>											5	5	
<i>Ischnura aurora</i>	7	4	4						6	17	33	42	
<i>Ischnura heterosticta</i>	9	6	9						2	4	15	25	
<i>Pseudagrion aureofrons</i>	1												
<i>Xanthagrion erythroneurum</i>	1	3	2						1	8	13	13	
Family Austropetalidae													
<i>Austropetalia tonyana</i>											2		
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	7		2							1	7	20	1
<i>Austroaeschna atrata</i>													1
<i>Austroaeschna ingrid</i>	20		3									5	24
<i>Austroaeschna multipunctata</i>	2	1	2								2		
<i>Austroaeschna parvistigma</i>	2											1	
<i>Austroaeschna pulchra</i>	1		3	2									
<i>Austroaeschna subapicalis</i>	27	2		1		1						1	
<i>Austroaeschna unicornis</i>		2	4	2									
<i>Hemianax papuensis</i>	2	5	2					2	4	9	2	10	
<i>Notoaeschna sagittata</i>												1	
<i>Spinaeschna tripunctata</i>											1		
<i>Telephlebia brevicauda</i>	6					1					1	2	
Family Gomphidae													
<i>Austrogomphus guerini</i>	5	2	2								4	16	1



The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austrogomphus ochraceus</i>	1		1								2	8	2
<i>Hemigomphus gouldii</i>	2											1	
<i>Hemigomphus heteroclytus</i>			2										
Family Sythemistidae													
<i>Archaeosynthemis orientalis</i>												1	
<i>Eusynthemis brevistyla</i>	5	13									4	4	
<i>Eusynthemis guttata</i>	2	2									4	8	1
<i>Eusynthemis tillyardi</i>												1	
<i>Eusynthemis virgula</i>		2									3	6	
<i>Parasynthemis regina</i>											1		
<i>Synthemis eustalacta</i>	1	2	1								1	2	
Family Corduliidae													
<i>Hemicordulia australiae</i>												2	
<i>Hemicordulia tau</i>	5	4	7	3		1			10	14	17	27	2
<i>Procordulia jacksoniensis</i>												1	
Family Libellulidae													
<i>Diplacodes bipunctata</i>	10	5	6					2	31	31	25	32	1
<i>Diplacodes haematodes</i>	2	2	1	1							2	1	
<i>Diplacodes melanopsis</i>	1		8									8	4
<i>Nannophya dalei</i>										2		2	
<i>Orthetrum caledonicum</i>	6	4	3	1						4	3	18	
<i>Tramea loewii</i>										1		1	
Genera incertae sedis													
<i>Cordulephya pygmaea</i>		1		1								2	

SCP South East Coastal Plain 1,749,237 ha

Undulating Tertiary and Quaternary coastal plains and hinterlands occur in several distinct segments (Warrnambool Plain, Otway Plain and Gippsland Plain) rise up to 200 metres in altitude and extend from Tyrendarra in the west to Lakes Entrance in the east and including Geelong, eastern Melbourne and the Mornington Peninsula. The area has a temperate climate with rainfall varying from about 500 to 1100 mm, typically with higher rainfall in winter. Adjacent areas of higher altitude (e.g. the Otway and Strzelecki Ranges) produce rainshadow effects in some parts of the area.



The Warrnambool Plain is dominated by nutrient deficient soils over low calcareous dune formations and the distinctive cliffed coastline. Much of the limestone has been overlain by more recent sediments, and between the limestone dunes, areas of swamplands are characterised by highly fertile peats and seasonal inundation. The area east of Warrnambool is characterised by deeper soils of volcanic origins overlying limestone, which are dissected by streams. The Otway Plain includes coastal plains, river valleys and foothills from the Bellarine Peninsula west to Princetown. A small isolated component at Werribee, on the western shore of Port Phillip Bay, is included. The Gippsland Plain includes lowland coastal and alluvial plains characterised by generally flat to gently undulating terrain. The coastline is varied and includes sandy beaches backed by dunes and cliffs, and shallow inlets with extensive mud and sand flats.

The vegetation includes lowland forests, open forests with shrubby or heathy understoreys, grasslands and grassy woodlands, heathlands, shrublands, freshwater and coastal wetlands, mangrove scrubs, saltmarshes, dune scrubs and coastal tussock grasslands. Extensively cleared for agriculture.

Species 48 Specimens 1055 Adults 1051 Larvae 4

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Hemiphlebiidae													
<i>Hemiphlebia mirabilis</i>	10											1	
Family Synlestidae													
<i>Synlestes weyersii</i>			2	1							1	3	
Family Lestidae													
<i>Austrolestes analis</i>	23	6	3	2	1					1	15	32	
<i>Austrolestes annulosus</i>	17	6	1	1	1					2	1	21	
<i>Austrolestes cingulatus</i>		1	1	1						1			
<i>Austrolestes io</i>											1	4	
<i>Austrolestes leda</i>	8	3	4	3	2				7	6	12	21	2
<i>Austrolestes psyche</i>	5	1							2		3	6	
Family Argiolestidae													
<i>Austroargiolestes icteromelas</i>	5	2	2						4	3	6	17	
<i>Griseargiolestes intermedius</i>													3
Family Lestoideidae													
<i>Diphlebia nymphoides</i>													1
Family Isostictidae													
<i>Rhadinosticta simplex</i>	2	1		1									
Family Platycnemidae													
<i>Nososticta solida</i>	4		1									1	
Family Coenagrionidae													
<i>Austroagrion watsoni</i>	12	3	5	1						1	6	14	
<i>Austrocnemis splendida</i>													1
<i>Ausrocoenagrion lyelli</i>											1		
<i>Ischnura aurora</i>	17		3	1	1					6	18	13	
<i>Ischnura heterosticta</i>	28	21	8	1						2	12	25	1
<i>Xanthagrion erythroneurum</i>	28	3	7		1					2	10	16	
Family Austropetaliidae													
<i>Austropetalia tonyana</i>											2		
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	15	4	4							2	11	20	
<i>Austroaeschna parvistigma</i>		1											
<i>Austroaeschna pulchra</i>												1	
<i>Austroaeschna unicornis</i>	1	2	3	1								1	
<i>Austrophlebia costalis</i>													1
<i>Hemianax papuensis</i>	7	4	3	1					3	2	2	1	
<i>Spinaeschna tripunctata</i>												1	
<i>Telephlebia brevicauda</i>	1	1				1							

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Gomphidae													
<i>Austrogomphus guerini</i>	1	2	1								1	1	
<i>Hemigomphus gouldii</i>		1											
Family Synthemistidae													
<i>Eusynthemis brevistyla</i>	2												
<i>Eusynthemis guttata</i>		1											
<i>Parasynthemis regina</i>												2	
<i>Synthemis eustalacta</i>	3	2									1	6	
Family Corduliidae													
<i>Hemicordulia australiae</i>	12	5	3								3	14	
<i>Hemicordulia tau</i>	24	9	5	4	2				3	8	17	24	1
<i>Procordulia jacksoniensis</i>	1	1									2	1	
Family Libellulidae													
<i>Austrothemis nigrescens</i>	1												
<i>Crocothemis nigrifrons</i>												1	
<i>Diplacodes bipunctata</i>	21	7	11	1	2				11	15	15	17	
<i>Diplacodes haematodes</i>	1	2		1								2	
<i>Diplacodes melanopsis</i>	13	24	1								1		1
<i>Nannophya dalei</i>	3										9	2	
<i>Orthetrum caledonicum</i>	24	6	6	2							3	15	
<i>Pantala flavescens</i>				1									
<i>Tamea loewii</i>			1										
Genera incertae sedis													
<i>Cordulephya pygmaea</i>	1												4



SVP Southern Volcanic Plain 2,440,340 ha

An extensive undulating basaltic plain in south-western Victoria, stretching from Melbourne west to Portland, south to Colac and north to Beaufort. It is characterised by vast open areas of grasslands, small patches of open woodland, stony rises denoting old lava flows, the low peaks of long extinct volcanoes dotting the landscape and numerous scattered large shallow lakes with extensive wetlands.



The grassland communities are floristically rich, usually dominated by Kangaroo Grass with a wide variety of perennial herbs. The open and fertile grassy plains were one of the first areas settled for agriculture in Victoria and native grasslands are now reduced to a few thousand hectares in extent. The major land use is agriculture, especially sheep and cattle grazing and cropping.

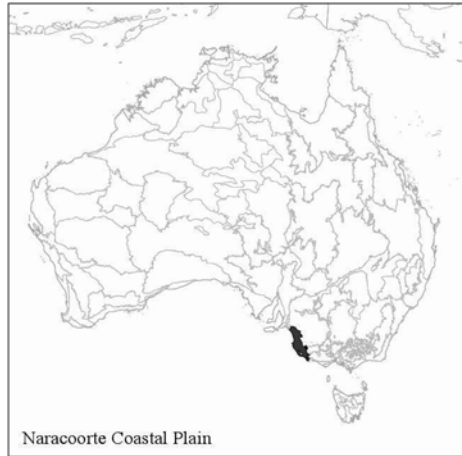
Species 37 Specimens 476 Adults 389 Larvae 87

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Hemiphlebiidae													
<i>Hemiphlebia mirabilis</i>												2	1
Family Synlestidae													
<i>Synlestes weyersii</i>	1	1										2	
Family Lestidae													
<i>Austrolestes analis</i>	4		3							1	3	14	5
<i>Austrolestes annulosus</i>	1					1			4	17	3	10	
<i>Austrolestes cingulatus</i>	2		1								1	10	
<i>Austrolestes io</i>			1						1				
<i>Austrolestes leda</i>	2		1						4	3	2	4	2
<i>Austrolestes psyche</i>			2								1	3	
Family Argiolestidae													
<i>Austroargiolestes icteromelas</i>	2											7	3

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestoideidae													
<i>Diphlebia lestoides</i>													1
Family Platycnemidae													
<i>Nososticta solida</i>		1											
Family Coenagrionidae													
<i>Austroagrion watsoni</i>			2									4	
<i>Ausrocoenagrion lyelli</i>	1	1										6	
<i>Ischnura aurora</i>	2		4							8	2	15	
<i>Ischnura heterosticta</i>	8	2	1							2	2	12	
<i>Xanthagrion erythroneurum</i>			1							25	2	10	
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	1	1	2							1	3	3	1
<i>Austroaeschna multipunctata</i>			4										
<i>Austroaeschna pulchra</i>	1												
<i>Dendroaeschna conspersa</i>				1									
<i>Hemianax papuensis</i>		1							1		3	5	1
<i>Telephlebia brevicauda</i>	1												
Family Gomphidae													
<i>Austrogomphus guerini</i>	9	1									2	13	
<i>Hemigomphus gouldii</i>												1	
Family Synthemistidae													
<i>Synthemis eustalacta</i>		2										2	
Family Corduliidae													
<i>Hemicordulia australiae</i>			4									9	
<i>Hemicordulia tau</i>	1		3							2	2	5	
<i>Procordulia jacksoniensis</i>			1							1	1	1	
Family Libellulidae													
<i>Crocothemis nigrifrons</i>			1										
<i>Diplacodes bipunctata</i>		2	5						4	4	5	3	6
<i>Diplacodes haematodes</i>											1		
<i>Diplacodes melanopsis</i>												3	
<i>Nannophya dalei</i>												2	
<i>Orthetrum caledonicum</i>	3		1									8	1
Genera incertae sedis													
<i>Cordulephya pygmaea</i>		1											

NCP Naracoorte Coastal Plain 2,458,215 ha

A broad coastal plain of Tertiary and Quaternary sediments with a regular series of calcareous sand ridges separated by inter-dune swales closed limestone depressions and young volcanoes at Mount Gambier. Vegetation is dominated by heathy woodlands and mallee shrublands with wet heaths in the inter-dune swales. Extensively cleared for agriculture.



Species 31 Specimens 511 Adults 511 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Hemiphlebiidae													
<i>Hemiphlebia mirabilis</i>	6		1								3	16	17
Family Lestidae													
<i>Austrolestes analis</i>	4	2	3	2							11	31	
<i>Austrolestes annulosus</i>	2		1							4	3	15	
<i>Austrolestes io</i>										3		1	
<i>Austrolestes leda</i>												10	
<i>Austrolestes psyche</i>	1		1							6	6	12	
Family Argiolestidae													
<i>Austroargiolestes icteromelas</i>												1	
Family Coenagrionidae													
<i>Austroagrion cyane</i>	1										1	8	
<i>Austroagrion watsoni</i>											1	10	
<i>Ausrocoenagrion lyelli</i>											1	1	
<i>Ischnura aurora</i>		3	1					1	1	7	11	26	
<i>Ischnura heterosticta</i>	5	2	4							3	10	23	
<i>Xanthagrion erythroneurum</i>			1						1	1	3	9	
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	3	2	1							1	12	19	

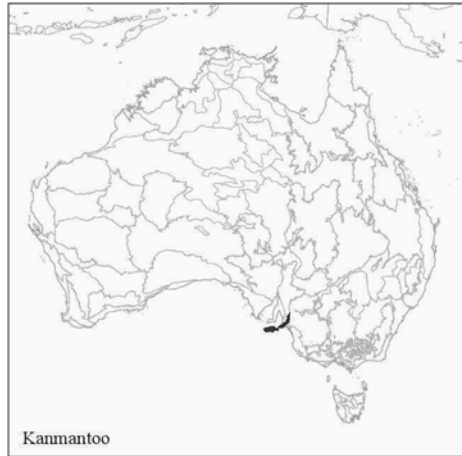
	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austroaeschna parvistigma</i>			1										
<i>Hemianax papuensis</i>		1	5	1				1	1	4		8	
Family Gomphidae													
<i>Austrogomphus cornutus</i>				1									
<i>Austrogomphus guerini</i>		1									1		
Family Synthemistidae													
<i>Eusynthemis brevistyla</i>											2		
<i>Synthemis eustalacta</i>	1		1								3	9	
Family Corduliidae													
<i>Hemicordulia australiae</i>												1	
<i>Hemicordulia tau</i>	1		2							5	10	7	
<i>Procordulia jacksoniensis</i>										3	4	8	1
Family Libellulidae													
<i>Austrothemis nigrescens</i>											2	8	8
<i>Crocothemis nigrifrons</i>	2		2									4	
<i>Diplacodes bipunctata</i>	1	1	2						4	10	6	23	
<i>Diplacodes haematodes</i>		1											
<i>Diplacodes melanopsis</i>											1	3	
<i>Nannophya dalei</i>											2	2	
<i>Orthetrum caledonicum</i>	2	1									2	4	
<i>Pantala flavescens</i>		1		1									



KAN Kanmantoo

812,415 ha

Temperate, well defined uplands of Cambrian and Late Proterozoic marine sediments, and a lateritized surface becoming increasingly dissected northwards, with eucalypt open forests and woodlands and heaths on mottled yellow and ironstone gravelly duplex soils in the wetter areas, and *Eucalyptus odorata* and drooping sheoak on shallow rocky soils in drier areas. Extensively cleared for agriculture.

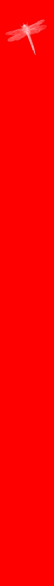


Species 17 Specimens 90 Adults 84 Larvae 6

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes analis</i>	6										4		
<i>Austrolestes annulosus</i>	9									3	8		
<i>Austrolestes aridus</i>											1		
Family Coenagrionidae													
<i>Ischnura heterosticta</i>											1		
<i>Xanthagrion erythroneurum</i>	4											1	
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>											5	1	1
<i>Agyrtacantha dirupta</i>													
<i>Austroaeschna parvistigma</i>													2
<i>Austroaeschna unicornis</i>												1	
<i>Hemianax papuensis</i>	3	1											1
Family Gomphidae													
<i>Austrogomphus guerini</i>												1	
Family Synthemistidae													
<i>Synthemis eustalacta</i>												2	
Family Corduliidae													
<i>Hemicordulia tau</i>		1							1	2	8	1	1
<i>Procordulia jacksoniensis</i>	1										9		1

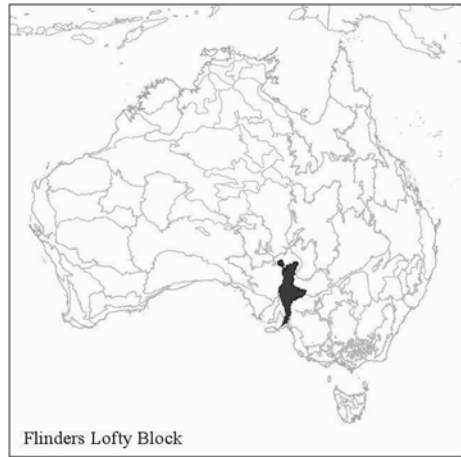
The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Libellulidae													
<i>Austrothemis nigrescens</i>											2		
<i>Diplacodes haematodes</i>										1			
<i>Nannophya dalei</i>	1												



FLB Flinders Lofty Block 6,615,765 ha

Temperate to arid Proterozoic ranges, alluvial fans and plains, and some outcropping volcanics, with the semi arid to arid north supporting native cypress, black oak (belah) and mallee open woodlands, Eremophila and Acacia shrublands, and bluebush/saltbush chenopod shrublands on shallow, well-drained loams and moderately-deep, well-drained red duplex soils. The increase in rainfall to the south corresponds with an increase in low open woodlands of *Eucalyptus obliqua* and *E. baxteri* on deep lateritic soils, and *E. fasciculosa* and *E. cosmophylla* on shallower or sandy soils.

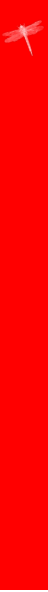


Species 23 Specimens 193 Adults 192 Larvae 1

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes analis</i>		1								1	2		1
<i>Austrolestes annulosus</i>	2	1			2				1		2	2	
<i>Austrolestes aridus</i>					1					1			
<i>Austrolestes psyche</i>			1							1			2
Family Coenagrionidae													
<i>Austroagrion cyane</i>												1	
<i>Austroagrion watsoni</i>											2		
<i>Ischnura aurora</i>									1	3	2	2	
<i>Ischnura heterosticta</i>		1		1						1		1	1
<i>Xanthagrion erythroneurum</i>		3	1								4	2	
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	5	2		1					1	2	2	2	2
<i>Austroaeschna parvistigma</i>	1	1		1								5	
<i>Austroaeschna unicornis</i>	1	1	1	1			1						
<i>Hemianax papuensis</i>	1	1	3		1	1		1	1	1	1	4	4

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Gomphidae													
<i>Austroepigomphus praeruptus</i>													1
<i>Austrogomphus australis</i>	1												
<i>Austrogomphus guerini</i>							1				1	7	1
Family Synthemistidae													
<i>Synthemis eustalacta</i>	5											4	1
Family Corduliidae													
<i>Hemicordulia australiae</i>	1												
<i>Hemicordulia tau</i>	3		6	8	1				4	6	1	5	3
Family Libellulidae													
<i>Diplacodes bipunctata</i>		1		1	3			1	1	1		2	1
<i>Diplacodes haematodes</i>		1		1	3	1				1	1	3	1
<i>Orthetrum caledonicum</i>	1			1	1				1	4		1	3
<i>Pantala flavescens</i>				1									



GAW Gawler

12,002,883 ha

Semi arid to arid, flat topped to broadly rounded hills of the Gawler Range Volcanics and Proterozoic sediments, low plateaux on sandstone and quartzite with an undulating surface of aeolian sand or gibbers and rocky quartzite hills with colluvial footslopes, erosional and depositional plains and salt encrusted lake beds, with black oak (belah) and myall low open woodlands, open mallee scrub, bluebush/saltbush open chenopod shrublands and tall mulga shrublands on shallow loams, calcareous earths and hard red duplex soils.



Species 13 Specimens 27 Adults 27 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes annulosus</i>				1									
<i>Austrolestes aridus</i>									1				
Family Coenagrionidae													
<i>Ischnura aurora</i>										1			
<i>Xanthagrion erythroneurum</i>										1	1		
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>		1										1	
<i>Austroaeschna parvistigma</i>		1		3							1	3	
<i>Austroaeschna unicornis</i>		1											
<i>Hemianax papuensis</i>												1	
Family Synthemistidae													
<i>Synthemis eustalacta</i>		1											
Family Corduliidae													
<i>Hemicordulia tau</i>					1				1	1		1	

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Libellulidae													
<i>Diplacodes bipunctata</i>										1			
<i>Diplacodes haematodes</i>												1	
<i>Orthetrum caledonicum</i>										1	1	1	



SSD Simpson Strzelecki Dunefields 27,984,283 ha

Arid dune fields and sandplains with sparse shrubland and spinifex hummock grassland, and cane grass on deep sands along dune crests. Large salt lakes, notably Lake Eyre and many clay pans are dispersed amongst the dunes. Several significant arid rivers terminate at Lake Eyre, Cooper Creek and Warburton River. They are fringed with coolibah and redgum woodlands.



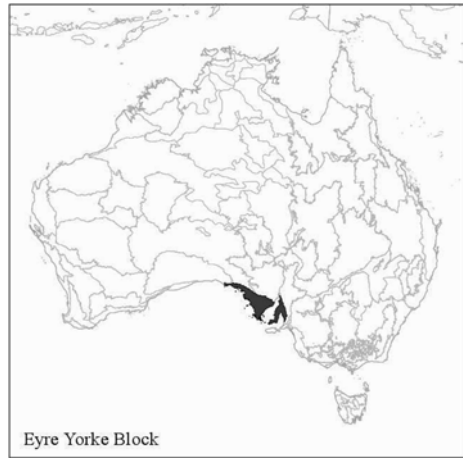
Species 13 Specimens 94 Adults 94 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes annulosus</i>									1		1		
<i>Austrolestes aridus</i>			3				2		1		3		
<i>Austrolestes leda</i>							1						
Family Coenagrionidae													
<i>Ischnura aurora</i>									2	2	1		
<i>Ischnura heterosticta</i>										2			
<i>Xanthagrion erythroneurum</i>		1	2						1	2	4		
Family Aeshnidae													
<i>Austrogynacantha heterogena</i>					1								
<i>Hemianax papuensis</i>			2	3	2		2		2		1		2
Family Corduliidae													
<i>Hemicordulia tau</i>	1		2	2	1		2		1		1		1
Family Libellulidae													
<i>Diplacodes bipunctata</i>			3		5			3		2	2		2
<i>Diplacodes haematodes</i>									1	1			
<i>Orthetrum caledonicum</i>		1	2	2			1		3	1	5	1	
<i>Pantala flavescens</i>			1										

EYB Eyre Yorke Block

6,120,409 ha

Archaean basement rocks and Proterozoic sandstones overlain by undulating to occasionally hilly calcarenite and calcrete plains and areas of aeolian quartz sands, with mallee woodlands, shrublands and heaths on calcareous earths, duplex soils and calcareous to shallow sands, now largely cleared for agriculture.



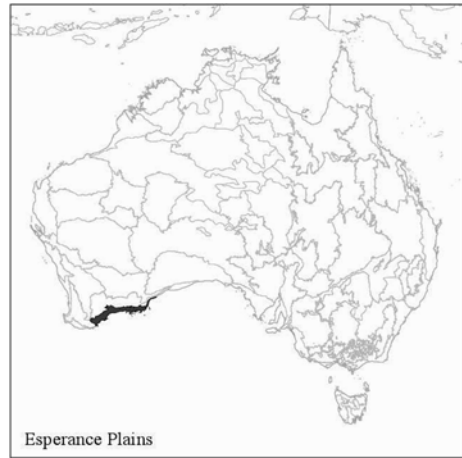
Species 14 Specimens 43 Adults 43 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes analis</i>					1								
<i>Austrolestes annulosus</i>				1							3	2	1
<i>Austrolestes cingulatus</i>								1					
<i>Austrolestes leda</i>													1
Family Coenagrionidae													
<i>Ischnura aurora</i>			1										
<i>Ischnura heterosticta</i>		2	1										1
<i>Xanthagrion erythroneurum</i>										1			
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>										3			3
<i>Hemianax papuensis</i>		1	1								1		
Family Corduliidae													
<i>Hemicordulia tau</i>	1		1								3	2	
<i>Procordulia jacksoniensis</i>	1												
Family Libellulidae													
<i>Diplacodes bipunctata</i>								1	2	2			
<i>Diplacodes haematodes</i>									1				
<i>Orthemum caledonicum</i>			1								1	1	1

ESP Esperance Plains

2,921,327 ha

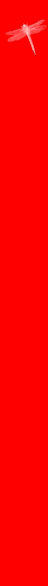
Proteaceous Scrub and mallee heaths on sandplain overlying Eocene sediments; rich in endemics. Herbfields and heaths on abrupt granite and quartzite ranges that rise from the plain. Eucalypt woodlands occur in gullies and alluvial foot-slopes. Warm Mediterranean.



Species 20 Specimens 131 Adults 131 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes aleison</i>		4		2								1	
<i>Austrolestes analis</i>	1	1		4							1	2	
<i>Austrolestes annulosus</i>				8						10	1	8	
<i>Austrolestes io</i>	1	1											
Family Argiolestidae													
<i>Archiargiolestes pusillissimus</i>												2	
<i>Archiargiolestes pusillus</i>												4	
<i>Miniargiolestes minimus</i>												3	
Family Coenagrionidae													
<i>Austroagrion cyane</i>				4						1	5	8	
<i>Ischnura aurora</i>				1									
<i>Xanthagrion erythroneurum</i>				2								2	
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>		3		1								1	
<i>Hemianax papuensis</i>	2	1	1	2					1		1		
Family Gomphidae													
<i>Austrogomphus collaris</i>	1											4	

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synthemistidae													
<i>Archaeosynthemis leachii</i>												1	
<i>Archaeosynthemis occidentalis</i>	2												
Family Corduliidae													
<i>Hemicordulia tau</i>				8						3	1		1
<i>Procordulia affinis</i>												2	1
Family Libellulidae													
<i>Austrothemis nigrescens</i>	4										2		
<i>Diplacodes bipunctata</i>	1			1						4			
<i>Orthetrum caledonicum</i>		1		1								2	1



COO Coolgardie

12,912,209 ha

Granite strata of Yilgarn Craton with Archaean Greenstone intrusions in parallel belts. Drainage is occluded. Mallees and scrubs on sandplains associated with lateritised uplands, playas and granite outcrops. Diverse woodlands rich in endemic eucalypts, on low greenstone hills, valley alluvials and broad plains of calcareous earths. In the west, the scrubs are rich in endemic Proteaceae, in the east they are rich in endemic acacias. Arid to Semi-arid Warm Mediterranean.



Species 10 Specimens 52 Adults 52 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes annulosus</i>	7											1	1
<i>Austrolestes aridus</i>										1			
Family Coenagrionidae													
<i>Austroagrion cyane</i>												3	
<i>Ischnura aurora</i>	1									1			
<i>Xanthagrion erythroneurum</i>									1			4	
Family Aeshnidae													
<i>Hemianax papuensis</i>			2										
Family Corduliidae													
<i>Hemicordulia tau</i>	1	1	1	1	1				2	1	1		
Family Libellulidae													
<i>Diplacodes bipunctata</i>	3								1			1	
<i>Orthetrum caledonicum</i>	8						1			1	1	1	
<i>Pantala flavescens</i>					1								

AVW Avon Wheatbelt

9,517,104 ha

Area of active drainage dissecting a Tertiary plateau in Yilgarn Craton. Gently undulating landscape of low relief. Proteaceous scrub-heaths, rich in endemics, on residual lateritic uplands and derived sandplains; mixed eucalypt, *Allocasuarina huegeliana* and Jam-York Gum woodlands on Quaternary alluvials and eluvials. Semi-arid (Dry) Warm Mediterranean. The south eastern boundary has been modified incorporating a small portion into the Mallee region. Extensively cleared for agriculture.



Species 19 Specimens 154 Adults 154 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes analis</i>			1				1			3			
<i>Austrolestes annulosus</i>	1	1	5	3					2	5	3	1	2
<i>Austrolestes aridus</i>								5	2	2			
<i>Austrolestes io</i>						1				5			
Family Argiolestidae													
<i>Archiargiolestes pusillus</i>											2	2	
Family Coenagrionidae													
<i>Austroagrion cyane</i>											1	2	2
<i>Ischnura aurora</i>			1	1									2
<i>Ischnura heterosticta</i>			4						1		5	3	3
<i>Xanthagrion erythreum</i>			4							3	1	2	2
Family Aeshnidae													
<i>Hemianax papuensis</i>	1	2	2					1				1	1
Family Gomphidae													
<i>Austrogomphus collaris</i>												8	2

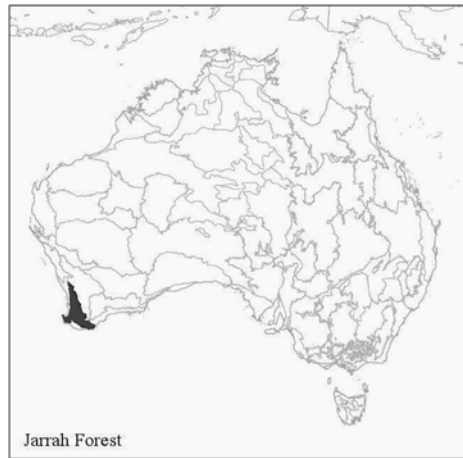
The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Corduliidae													
<i>Hemicordulia australiae</i>												1	1
<i>Hemicordulia tau</i>	1	1	1		2			5		3	1		2
Family Libellulidae													
<i>Austrothemis nigrescens</i>											1		
<i>Diplacodes bipunctata</i>		1	1	1	1	3			1		2	1	1
<i>Diplacodes haematodes</i>			1										2
<i>Orthetrum caledonicum</i>	5	2	1								3	2	2
<i>Pantala flavescens</i>			1										
<i>Tramea stenoloba</i>		1											

JAF Jarrah Forest

4,509,074 ha

Duricrusted plateau of Yilgarn Craton characterised by Jarrah-Marri forest on laterite gravels and, in the eastern part, by Marri-Wandoo woodlands on clayey soils. Eluvial and alluvial deposits support *Agonis* shrublands. In areas of Mesozoic sediments, Jarrah forests occur in a mosaic with a variety of species-rich shrublands. Warm Mediterranean climate.



Species 36 Specimens 768 Adults 768 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes aleison</i>		10		1							2		
<i>Austrolestes analis</i>	9		1					1	16	7	2		
<i>Austrolestes annulosus</i>	2							1	1	4	10		
<i>Austrolestes aridus</i>									1				
<i>Austrolestes io</i>	3	1	2				1	2	3	2	4		
Family Argiolestidae													
<i>Archiargiolestes parvulus</i>												4	
<i>Archiargiolestes pusillissimus</i>									1	4	2		
<i>Miniargiolestes minimus</i>	14	2	1						2	6	22	1	
Family Coenagrionidae													
<i>Austroagrion cyane</i>				4						22	2	5	
<i>Ischnura aurora</i>	1		1								2	3	
<i>Ischnura heterosticta</i>												2	4
<i>Xanthagrion erythroneurum</i>										1	1	5	
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	7		2					1	5	8	5	1	
<i>Austroaeschna anacantha</i>	5	4	1					2			2	16	3
<i>Hemianax papuensis</i>	1		1	2						2	1	4	

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Petaluridae													
<i>Petalura hesperia</i>	2								1			7	
Family Gomphidae													
<i>Armogomphus armiger</i>					1					13	4	5	
<i>Austrogomphus collaris</i>	8									9	7	36	2
<i>Austrogomphus pusillus</i>	2								6	19	42	41	2
<i>Zephyrogomphus lateralis</i>	1										4	11	
Family Synthemistidae													
<i>Archaeosynthemis leachii</i>	4	3	1									10	
<i>Archaeosynthemis occidentalis</i>	7	1	1						1		9	20	
<i>Archaeosynthemis spiniger</i>	2	1									1		
<i>Austrosynthemis-cyanitincta</i>					1			1		3	7	18	
Family Corduliidae													
<i>Hemicordulia australiae</i>	6		1		7				1		3	9	
<i>Hemicordulia tau</i>	1	1	3	7	1				3	4	8	7	
<i>Procordulia affinis</i>	2									2	1		
Family Libellulidae													
<i>Austrothemis nigrescens</i>	5										2	9	
<i>Diplacodes bipunctata</i>	3							1	2	1	1	4	
<i>Diplacodes haematodes</i>	5		1							4	2	4	4
<i>Nannophya occidentalis</i>									2	1	1	2	
<i>Orthetrum caledonicum</i>	7	1	2	3						1	11	10	
<i>Pantala flavescens</i>			1										
<i>Tramea stenoloba</i>												1	
Genera incertae sedis													
<i>Hesperocordulia berthoudi</i>	1			1						2	2	6	
<i>Lathrocordulia metallica</i>					1						2	3	

WAR Warren

844,771 ha

Dissected undulating country of the Leeuwin Complex and Albany Orogen with loamy soils supporting Karri forest, laterites supporting Jarrah-Marri forest, leached sandy soils in depressions and plains supporting paperbark/ sedge swamps, and Holocene marine dunes with *Agonis flexuosa* woodlands. Moderate Mediterranean.



Species 28 Specimens 261 Adults 261 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes aleison</i>												2	2
<i>Austrolestes analis</i>		2		2							3	7	2
<i>Austrolestes annulosus</i>											1		
<i>Austrolestes io</i>	1	1									8	5	1
Family Argiolestidae													
<i>Archiargiolestes parvulus</i>												1	
<i>Archiargiolestes pusillissimus</i>	1	1								3	26	3	
<i>Archiargiolestes pusillus</i>										27	25	5	
<i>Miniargiolestes minimus</i>	13		2							3	8	6	
Family Coenagrionidae													
<i>Austroagrion cyane</i>										1	6	1	
<i>Ischnura aurora</i>				1								1	
<i>Ischnura heterosticta</i>												1	
<i>Xanthagrion erythroneurum</i>											1		
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	1											4	
<i>Austroaeschna anacantha</i>	3		1									5	
<i>Hemianax papuensis</i>											1	3	

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Gomphidae													
<i>Armogomphus armiger</i>	1										1	1	
<i>Austrogomphus collaris</i>	3											6	
<i>Zephyrogomphus lateralis</i>	2										2	10	
Family Synthemistidae													
<i>Archaeosynthemis leachii</i>	2	1								1	2	5	
<i>Archaeosynthemis occidentalis</i>												1	
<i>Austrosynthemis-cyanitincta</i>											2	3	
Family Corduliidae													
<i>Hemicordulia tau</i>	1									2	4		
<i>Procordulia affinis</i>										3		1	
Family Libellulidae													
<i>Diplacodes bipunctata</i>	1										1	2	1
<i>Diplacodes haematodes</i>				1							1	2	
<i>Orthetrum caledonicum</i>		2										3	
Genera incertae sedis													
<i>Hesperocordulia berthoudi</i>												2	
<i>Lathrocordulia metallica</i>												1	

SWA Swan Coastal Plain 1,525,798 ha

Low lying coastal plain, mainly covered with woodlands. It is dominated by Banksia or Tuart on sandy soils, *Casuarina obesa* on outwash plains, and paperbark in swampy areas. In the east, the plain rises to duricrusted Mesozoic sediments dominated by Jarrah woodland. Warm Mediterranean. Three phases of marine sand dune development provide relief. The outwash plains, once dominated by *Casuarina obesa*-marri woodlands and *Melaleuca* shrublands, are extensive only in the south.



Species 32 Specimens 1272 Adults 1272 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes aleison</i>								2	1	2	2	7	
<i>Austrolestes analis</i>	7	5	7	4		1			7	25	10	16	1
<i>Austrolestes annulosus</i>	7	2		2	2	1	1		7	6	15	10	3
<i>Austrolestes aridus</i>									1	2			
<i>Austrolestes io</i>	3		1	2		3	1	3	3	4	4	7	
Family Argiolestidae													
<i>Archiargiolestes parvulus</i>										8	30	8	
<i>Archiargiolestes pusillus</i>	1									32	28	21	
<i>Miniargiolestes minimus</i>	5	1		1							14	9	
Family Coenagrionidae													
<i>Austroagrion cyane</i>	1								1	7	5	5	4
<i>Ischnura aurora</i>	5	5	1			1				10	1	7	
<i>Xanthagrion erythronerum</i>	7	2	2	3					2	4	2	15	4
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	10	5	3	3	3	2		1	3	8	10	7	1
<i>Austroaeschna anacantha</i>	12	2	2		2						6	3	
<i>Austrogynacantha heterogena</i>	1												

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Hemianax papuensis</i>	10	7	5	9	2	10	1			2	6	13	2
Family Petaluridae													
<i>Petalura hesperia</i>	4										1	30	
Family Gomphidae													
<i>Armogomphus armiger</i>	2										5	1	
<i>Austroepigomphus praeruptus</i>													
<i>Austroepigomphus gordonii</i>								1					1
<i>Austrogomphus collaris</i>	6	2			1					24	26	14	9
<i>Zephyrogomphus lateralis</i>	4										2	5	
Family Synthemistidae													
<i>Archaeosynthemis leachii</i>	7										3	8	
<i>Archaeosynthemis occidentalis</i>	2									1	10	7	
<i>Austrosynthemis-cyanitincta</i>	1									1	6	4	1
Family Corduliidae													
<i>Hemicordulia australiae</i>	2	1	6	1	1					8	7	4	
<i>Hemicordulia tau</i>	7	4	2	7	12	11		1	11	17	18	14	1
<i>Procordulia affinis</i>	1								7	7	9		1
Family Libellulidae													
<i>Austrothemis nigrescens</i>	12	3	2	1				1		8	23	22	1
<i>Diplacodes bipunctata</i>	10	12	3	2	1			1	4	14	14	22	1
<i>Diplacodes haematodes</i>	3	32	2	1					1	6	6	3	8
<i>Nannophya occidentalis</i>			1							1	1		
<i>Orthetrum caledonicum</i>	6	7	8						3	5	21	32	9
<i>Pantala flavescens</i>			6										
<i>Tramea loewii</i>			1										
<i>Tramea stenoloba</i>	1	1	6					1		1	6	4	2
Genera incertae sedis													
<i>Hesperocordulia berthoudi</i>	3	1	1							1	13	2	
<i>Lathrocordulia metallica</i>												2	

GES Geraldton Sandplains 3,142,149 ha

Mainly proteaceous scrub-heaths, rich in endemics, on the sandy earths of an extensive, undulating, lateritic sandplain mantling Permian to Cretaceous strata. Extensive York Gum and Jam woodlands occur on outwash plains associated drainage. Semi-arid (Dry) warm Mediterranean.



Species 22 Specimens 74 Adults 74 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes analis</i>						3							
<i>Austrolestes annulosus</i>										1	1		
Family Argiolestidae													
<i>Miniargiolestes minimus</i>												1	
Family Coenagrionidae													
<i>Austroagrion cyane</i>									5				
<i>Ischnura aurora</i>									1				
<i>Ischnura heterosticta</i>			1						6		3		
<i>Xanthagrion erythronerum</i>									2		2		
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>									2				
<i>Hemianax papuensis</i>				1		1			2		2		
Family Gomphidae													
<i>Austroepigomphus gordoni</i>	1											1	
<i>Austrogomphus collaris</i>													1
<i>Austrogomphus pusillus</i>									2				
<i>Ictinogomphus dobsoni</i>	1												
Family Corduliidae													
<i>Hemicordulia australiae</i>									1				

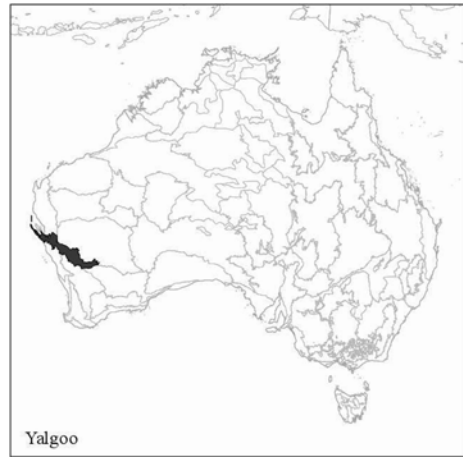
The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Hemicordulia tau</i>				2		1	1		3	2			
Family Libellulidae													
<i>Austrothemis nigrescens</i>											1		
<i>Crocothemis nigrifrons</i>											1		
<i>Diplacodes bipunctata</i>			1		1				2		1		
<i>Diplacodes haematodes</i>									2	1	2		
<i>Macrodiplax cora</i>										2	1		
<i>Orthetrum caledonicum</i>				2							3	2	
<i>Zyxomma elgneri</i>											1		

YAL Yalgoo

5,087,577 ha

This region is an interzone between South-western Bioregions and Murchison. It is characterised by low woodlands to open woodlands of *Eucalyptus*, *Acacia* and *Callitris* on red sandy plains of the Western Yilgarn Craton and southern Carnarvon Basin. The latter has a basement of Phanerozoic sediments. This Bioregion extends westwards to the boundary of the South-west Botanical Province, so that it includes the Toolonga Plateau of the southern Carnarvon Basin. Semi-arid to arid, warm, Mediterranean climate. Mulga, *Callitris-Eucalyptus salubris*, and Bowgada open woodlands and scrubs on earth to sandy-earth plains in the western Yilgarn Craton. Rich in ephemerals. Arid to semi-arid warm Mediterranean.



Species 11 Specimens 32 Adults 32 Larvae 0
 This represents only 7 collecting events

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes annulosus</i>	1												
Family Coenagrionidae													
<i>Ischnura aurora</i>										3			
<i>Xanthagrion erythroneurum</i>										1			
Family Aeshnidae													
<i>Hemianax papuensis</i>	2									4			
Family Corduliidae													
<i>Hemicordulia australiae</i>									1				
<i>Hemicordulia tau</i>										6			
Family Libellulidae													
<i>Crocothemis nigrifrons</i>									4				

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Diplacodes bipunctata</i>			2						1				
<i>Diplacodes haematodes</i>									1	1			
<i>Macrodiplax cora</i>									2				
<i>Orthetrum caledonicum</i>									1	1			

MUR Murchison

28,120,554 ha

Mulga low woodlands, often rich in ephemerals, on outcrop hardpan wash plains and fine-textured Quaternary alluvial and eluvial surfaces mantling granitic and greenstone strata of the northern part of the Yilgarn Craton. Surfaces associated with the occluded drainage occur throughout with hummock grasslands on Quaternary sandplains, saltbush shrublands on calcareous soils and *Halosarcia* low shrublands on saline alluvia. Areas of red sandplains with mallee-mulga parkland over hummock grasslands occur in the east.



Species 13 Specimens 68 Adults 68 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes annulosus</i>						1							
<i>Austrolestes aridus</i>					4								
Family Coenagrionidae													
<i>Agriocnemis argentea</i>								1					
<i>Austroagrion cyane</i>			1										
<i>Ischnura aurora</i>	1		1										
<i>Xanthagrion erythronerum</i>					3	1							
Family Aeshnidae													
<i>Hemianax papuensis</i>		1	3		3								2
Family Gomphidae													
<i>Austroepigomphus gordonii</i>									2				
Family Cordulidae													
<i>Hemicordulia tau</i>			4		7								
Family Libellulidae													
<i>Diplacodes bipunctata</i>			2	6	4	4				4			

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Orthetrum caledonicum</i>				2	3								1
<i>Pantala flavescens</i>		1											
<i>Tramea loewii</i>					4			1					

CAR Carnarvon

8,430,172 ha

Quaternary alluvial, aeolian and marine sediments overlying Cretaceous strata. A mosaic of saline alluvial plains with samphire and saltbush low shrublands, Bowgada low woodland on sandy ridges and plains, Snakewood scrubs on clay flats, and tree to shrub steppe over hummock grasslands on and between red sand dune fields. Limestone strata with *Acacia startii* / *bivenosa* shrublands outcrop in the north, where extensive tidal flats in sheltered embayments support Mangal. Arid



Species 14 Specimens 85 Adults 85 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes aridus</i>				1									
<i>Austrolestes io</i>				1									
Family Coenagrionidae													
<i>Ischnura aurora</i>					1								
<i>Pseudagrion aureofrons</i>													1
<i>Xanthagrion erythroneurum</i>					4					4			
Family Aeshnidae													
<i>Hemianax papuensis</i>		1	1	6	6			1		1			
Family Gomphidae													
<i>Austroepigomphus gordonii</i>	1										2	2	
<i>Ictinogomphus dobsoni</i>												1	
Family Corduliidae													
<i>Hemicordulia intermedia</i>			1										
Family Libellulidae													
<i>Diplacodes bipunctata</i>			1	4	12	1							
<i>Diplacodes haematodes</i>	3							2			1		1

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Macrodiplax cora</i>					3								
<i>Pantala flavescens</i>			1	4	11								
<i>Tramea loewii</i>					4								

PIL Pilbara

17,823,126 ha

There are four major components to the Pilbara Craton. (1) Hamersley. Mountainous area of Proterozoic sedimentary ranges and plateaux with Mulga low woodland over bunch grasses on fine textured soils and Snappy Gum over *Triodia brizoides* on skeletal sandy soils of the ranges. (2) The Fortescue Plains. Alluvial plains and river frontages. Salt marsh, mulga-bunch grass, and short grass communities on alluvial plains. River Gum woodlands fringe the drainage lines. This is the northern limit of Mulga (*Acacia aneura*). (3) Chichester. Archaean granite and basalt plains supporting shrub steppe characterised by *Acacia pyrifolia* over *Triodia pungens* hummock grasses. Snappy Gum tree steppes occur on ranges. (4) Roebourne. Quaternary alluvial plains with a grass savanna of mixed bunch and hummock grasses, and dwarf shrub steppe of *Acacia translucens* over *Triodia pungens*. Samphire, *Sporobolus* and Mangal occur on marine alluvial flats. Arid tropical with summer rain.



Species 37 Specimens 595 Adults 595 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes aridus</i>	1	1											
Family Isostictidae													
<i>Eurysticta coolawanyah</i>		8								1	3	3	
Family Platycnemididae													
<i>Nososticta liveringa</i>		1									2		
<i>Nososticta pilbara</i>	8	2					1			2	9	2	
Family Coenagrionidae													
<i>Agriocnemis argentea</i>	2	2		4	1		5	2		2	9	1	
<i>Agriocnemis kunjina</i>	1	6					3	2		1	16	5	2

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Argiocnemis rubescens</i>										2			
<i>Austroagrion pindrina</i>	2						7	11			9	4	
<i>Austrocnemis maccullochi</i>										2			
<i>Ischnura aurora</i>	2	3		2			1				5	5	1
<i>Ischnura heterosticta</i>	2	4		4			2				4		
<i>Pseudagrion aureofrons</i>		2					5	16			5	2	
<i>Pseudagrion microcephalum</i>	6	17		2		1	4			8	10	2	
<i>Xanthagrion erythroneurum</i>		4		1							2	2	
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	1				1								
<i>Austrogynacantha heterogena</i>				1									
<i>Hemianax papuensis</i>	4			2	3	5		2			1	1	2
Family Gomphidae													
<i>Antipodogomphus hodgkini</i>	5	7		1									1
<i>Austroepigomphus gordoni</i>	1	2								1	8		
<i>Austrogomphus mjobergi</i>	2	6		3				2		8	4		1
<i>Ictinogomphus dobsoni</i>	8	7		1	1					1	9	4	
Family Corduliidae													
<i>Hemicordulia intermedia</i>				1	1								
<i>Hemicordulia koomina</i>	1						4				3	1	
<i>Hemicordulia tau</i>	5	1		1	1			2					
Family Libellulidae													
<i>Crocothemis nigrifrons</i>	4	3					2			1	3	1	
<i>Diplacodes bipunctata</i>	3	1	1	2	5	2	2				1	5	
<i>Diplacodes haematodes</i>	5	3	2	3	6	4	4		2	2	8	5	1
<i>Macrodiplax cora</i>												1	
<i>Nannophlebia injibandi</i>	4	6									3		2
<i>Orthetrum caledonicum</i>	8	4	2		6		2	1			4	1	
<i>Orthetrum migratum</i>	5	2	1	2	1		2			1	12	1	
<i>Pantala flavescens</i>	1	2	4		1								
<i>Rhodothemis lieftincki</i>	3	2					1				4	3	
<i>Rhyothemis graphiptera</i>	3	2								1	4		
<i>Tramea loewii</i>				1	1							2	
<i>Tramea stenoloba</i>	1	2									1	1	
<i>Zyxomma elgneri</i>		2			1					2	2		

DAL Dampierland

8,360,871 ha

(1) Quaternary sandplain overlying Jurassic and Mesozoic sandstones with Pindan. Hummock grasslands on hills.

(2) Quaternary marine deposits on coastal plains, with Mangal, samphire - *Sporobolus* grasslands, *Melaleuca acacioides* low forests, and *Spinifex* - *Crotalaria* strand communities.

(3) Quaternary alluvial plains associated with the Permian and Mesozoic sediments of Fitzroy Trough support tree savannas of *Chrysopogon* - *Dichanthium* grasses with scattered *Eucalyptus microtheca* - *Lysiphyllum cunninghamii*. Riparian forests of River Gum and Cadjeput fringe drainages.

(4) Devonian reef limestones in the north and east support sparse tree steppe over *Triodia intermedia* and *T. wiseana* hummock grasses and vine thicket elements.

Dry hot tropical, semi-arid summer rainfall.



Species 23 Specimens 155 Adults 155 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes annulosus</i>	1												
<i>Austrolestes insularis</i>								1					
<i>Lestes concinnus</i>		2						1					
Family Isostictidae													
<i>Austrosticta soror</i>			11										
<i>Rhadinosticta banksi</i>		3	9										
Family Platynemidae													
<i>Nososticta liveringa</i>		18						4					
Family Coenagrionidae													
<i>Agriocnemis pygmaea</i>			4							1			
<i>Ceriagrion aeruginosum</i>										1			

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Ischnura aurora</i>		1	2										
<i>Pseudagrion aureofrons</i>		8	14					3					
<i>Pseudagrion microcephalum</i>		16	11					2					
Family Aeshnidae													
<i>Austrogynacantha heterogena</i>		1											
<i>Hemianax papuensis</i>			1		2								
Family Gomphidae													
<i>Austrogomphus mjobergi</i>		1											
<i>Austrogomphus pusillus</i>													1
Family Libellulidae													
<i>Diplacodes bipunctata</i>		2	3				1	1					
<i>Diplacodes haematodes</i>		1	5	1			2						
<i>Neurothemis stigmatizans</i>								1					
<i>Orthetrum caledonicum</i>	1		7					1					
<i>Orthetrum sabina</i>			2										
<i>Pantala flavescens</i>			3		2								
<i>Potamarcha congener</i>								1					
<i>Tramea loewii</i>								2					

CEK Central Kimberley

7,675,587 ha

Hilly to mountainous country with parallel siliceous ranges of Proterozoic sedimentary rocks with skeletal sandy soils supporting *Plectrachne pungens* hummock grasses with scattered trees, and with earths on Proterozoic volcanics in valleys supporting Ribbon Grass with scattered trees. Open forests of River Gum and Pandanus occur along drainage lines. Dry hot tropical, sub-humid to semi-arid, summer rainfall.



Species 25 Specimens 106 Adults 106 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes insularis</i>							1	2					
Family Platycnemididae													
<i>Nososticta kalumburu</i>							3	3				1	
<i>Nososticta liveringa</i>							2	23					
Family Coenagrionidae													
<i>Argiocnemis rubescens</i>							1	4					
<i>Austroagrion exclamationis</i>							1	2					
<i>Austroagrion watsoni</i>							1	2	1				
<i>Austrocnemis obscura</i>								1					
<i>Ischnura aurora</i>								1					
<i>Pseudagrion aureofrons</i>								1					
<i>Pseudagrion lucifer</i>							1	3					
<i>Pseudagrion microcephalum</i>								1					
<i>Xanthagrion erythroneurum</i>											1		
Family Aeshnidae													
<i>Gynacantha nourlangie</i>						2	4	2	1		1		
Family Gomphidae													
<i>Austroepigomphus turneri</i>				1									

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austrogomphus mouldsorum</i>												1	
<i>Ictinogomphus australis</i>												1	
Family Libellulidae													
<i>Diplacodes bipunctata</i>				4									
<i>Diplacodes haematodes</i>				9			3						
<i>Nannodiplax rubra</i>							2						
<i>Neurothemis stigmatizans</i>							4						
<i>Orthetrum caledonicum</i>				3			1						
<i>Orthetrum migratum</i>							4						
<i>Pantala flavescens</i>				1									1
<i>Tramea loewii</i>							1		1				
<i>Tramea stenoloba</i>				1									

NOK Northern Kimberley 8,420,100 ha

Dissected plateau of Kimberley Basin. Savanna woodland of Woollybutt and Darwin Stringy bark over high Sorghum grasses and *Plectrache schinzii* hummock grasses on shallow sandy soils on outcropping Proterozoic siliceous sandstone strata. Savanna woodlands on *Eucalyptus tectifera* - *E. grandiflora* alliance over high Sorghum grasses on red and yellow earths mantling basic Proterozoic volcanics. Riparian closed forests of paperbark trees and *Pandanus* occur along drainage lines. Extensive Mangal occurs in estuaries and sheltered embayments. Numerous small patches of monsoon rainforest are scattered through the district. Dry hot tropical, sub-humid, summer rainfall.



Species 44 Specimens 311 Adults 311 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes insularis</i>					1	1							
Family Isostictidae													
<i>Austrosticta fieldi</i>					1	1							
<i>Austrosticta soror</i>			1										
Family Platycnemidae													
<i>Nososticta kalumburu</i>		1				1		19					
<i>Nososticta liveringa</i>								56					
Family Coenagrionidae													
<i>Argiocnemis pygmaea</i>								1		1			
<i>Argiocnemis rubescens</i>							1	4					
<i>Austroagrion exclamationis</i>							1	2					
<i>Austroagrion watsoni</i>							1	5					
<i>Austrocnemis obscura</i>							1						1
<i>Ceriagrion aeruginosum</i>			1				1	1					

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Ischnura aurora</i>								3					
<i>Ischnura heterosticta</i>					1					1			
<i>Pseudagrion lucifer</i>						1	2	4					
<i>Pseudagrion microcephalum</i>							4	3					
Family Aeshnidae													
<i>Anax georgius</i>								1					
<i>Austrogynacantha heterogena</i>		2		1	3							1	
<i>Gynacantha dobsoni</i>								3					
<i>Gynacantha nourlangie</i>					5	2		10	2	4			
<i>Hemianax papuensis</i>		6	1	1								1	
Family Gomphidae													
<i>Antipodogomphus neophytus</i>		1											
<i>Austroepigomphus turneri</i>									4				
<i>Ictinogomphus australis</i>		1											
Family Corduliidae													
<i>Hemicordulia intermedia</i>		1						1					
Family Libellulidae													
<i>Aethriamanta circumsignata</i>		1											
<i>Brachydiplax denticauda</i>		1											
<i>Diplacodes bipunctata</i>	1	4			2			3	1				
<i>Diplacodes haematodes</i>	1	2			6	4	1	5	4				
<i>Macrodiplax cora</i>		1	1		1			1					
<i>Nannodiplax rubra</i>		1			1	2		8		1			
<i>Nannophlebia injibandi</i>							1						
<i>Nannophlebia mudginberri</i>								1					
<i>Neurothemis stigmatizans</i>		1		1	2	1		4	3	1		1	
<i>Notolibellula bicolor</i>						2							
<i>Orthetrum caledonicum</i>	2	3											
<i>Orthetrum migratum</i>						3		4	4				
<i>Orthetrum sabina</i>		1											
<i>Pantala flavescens</i>	3	1	1	1		1			1				
<i>Rhyothemis braganza</i>		1	1					2	1				
<i>Rhyothemis graphiptera</i>			6							3			
<i>Tholymis tillarga</i>	2	1									2		
<i>Tramea loewii</i>	1	4			2	2		3	2	1		3	
<i>Tramea stenoloba</i>					1	1							
<i>Zyxomma elgneri</i>	1	2											

VIB Victoria Bonaparte 7,301,242 ha

Phanerozoic strata of the Bonaparte Basin in the north-western part are mantled by Quaternary marine sediments supporting Samphire - *Sporobolus* grasslands and mangal, and by red earth plains and black soil plains with an open savanna of high grasses. Outcrops of Devonian limestone karst in the west support tree steppe and vine thicket. Plateaux and abrupt ranges of Proterozoic sandstone, known as the Victoria Plateau, occur in the south and east, and are partially mantled by skeletal sandy soils with low tree savannas and hummock grasslands. In the south east are limited areas of gently undulating terrain on a variety of sedimentary rocks supporting low Snappy Gum over hummock grasslands and also of gently sloping floodplains supporting *Melaleuca minutifolia* low woodland over annual sorghums. Dry hot tropical, semi-arid summer rainfall.



Species 67 Specimens 375 Adults 375 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes insularis</i>				1									
<i>Indolestes alleni</i>						1				1			
<i>Lestes concinnus</i>	2	3				1		1	1				
Family Isostictidae													
<i>Austrosticta soror</i>		1											
<i>Eurysticta kununurra</i>	1	2											
<i>Rhadinosticta banksi</i>		1											
Family Platycnemidae													
<i>Nososticta baroalba</i>						1		1	1				
<i>Nososticta coelestina</i>					2					1			
<i>Nososticta fraterna</i>								2	1				

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Nososticta kalumburu</i>	2												
<i>Nososticta liveringa</i>		38					4						
Family Coenagrionidae													
<i>Aciagrion fragile</i>								2					
<i>Agriocnemis argentea</i>								1					
<i>Agriocnemis pygmaea</i>							1	2	4				
<i>Argiocnemis rubescens</i>								1		1		1	
<i>Austroagrion exclamationis</i>				2				1	3				
<i>Austroagrion watsoni</i>								1					
<i>Austrocnemis maccullochi</i>								1					
<i>Ceriagrion aeruginosum</i>								1		2			
<i>Ischnura aurora</i>		1	1	2	1			2	5				
<i>Ischnura heterosticta</i>					1		1	2	3				
<i>Ischnura pruinescens</i>	1			1					1				
<i>Pseudagrion aureofrons</i>		3							1				
<i>Pseudagrion cingillum</i>		13					2	4	1				
<i>Pseudagrion jedda</i>					6								
<i>Pseudagrion lucifer</i>	1												
<i>Pseudagrion microcephalum</i>		4			1		1	2	5				
<i>Xanthagrion erythroneurum</i>		1						2					
Family Aeshnidae													
<i>Anax gibbosulus</i>									1				
<i>Anax guttatus</i>	2												
<i>Austrogynacantha heterogena</i>	1	8											
<i>Gynacantha dobsoni</i>							2						
<i>Gynacantha nourlangie</i>					1			1				1	
<i>Hemianax papuensis</i>	10	3	1									1	1
Family Gomphidae													
<i>Antipodogomphus neophytus</i>	2	1											
<i>Austrogomphus mjobergi</i>		3										1	
<i>Austrogomphus mouldsororum</i>												1	
<i>Ictinogomphus australis</i>					1			1					
Family Corduliidae													
<i>Hemicordulia intermedia</i>		1				1			1				
<i>Pentathemis membranulata</i>		1											
Family Libellulidae													
<i>Brachydiplax denticauda</i>					1								
<i>Crocothemis nigrifrons</i>	1	3					1		1				

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Diplacodes bipunctata</i>	4	5	2	5	1			1	2				2
<i>Diplacodes haematodes</i>	2	1	1	2			2	1	2	5			
<i>Diplacodes nebulosa</i>	1							2	1				
<i>Diplacodes trivialis</i>	2				1		1	1					1
<i>Hydrobasileus brevistylus</i>	3								2				
<i>Lathrecista asiatica festa</i>									1				
<i>Macrodiplax cora</i>		2			1							1	
<i>Nannodiplax rubra</i>	3	1	1	4	1	1		1					
<i>Nannophlebia eludens</i>										1			
<i>Nannophlebia injibandi</i>										1			
<i>Neurothemis stigmatizans</i>	3	1		1									
<i>Notolibellula bicolor</i>	1	1											
<i>Orthetrum caledonicum</i>	3	3		3					2	4			1
<i>Orthetrum migratum</i>		2							1	1			
<i>Orthetrum sabina</i>		1						5					
<i>Orthetrum serapia</i>					1								
<i>Pantala flavescens</i>		5	1		1	1			1				1
<i>Potamarcha congener</i>		4											
<i>Rhodothemis lieftincki</i>	1	1											
<i>Rhyothemis braganza</i>	3	1	1	2						1			
<i>Rhyothemis graphiptera</i>	3		2	2	1		1	1					
<i>Tholymis tillarga</i>		2			1		1						
<i>Tramea loewii</i>	2	6			2		1						
<i>Urothemis aliena</i>								1					
<i>Zygomma elgneri</i>			1		1				1				



OVP Ord Victoria Plain

12,540,703 ha

Level to gently undulating plains with scattered hills on Cambrian volcanics and Proterozoic sedimentary rocks; vertosols on plains and predominantly skeletal soils on hills; grassland with scattered Bloodwood and Snappy Gum with spinifex and annual grasses. Dry hot tropical, semi-arid summer rainfall. The lithological mosaic has three main components: (1) Abrupt Proterozoic and Phanerozoic ranges and scattered hills mantled by shallow sand and loam soils supporting *Triodia* hummock grasslands with sparse low trees. (2) Cambrian volcanics and limestones form extensive plains with short grass (*Enneapogon* spp.) on dry calcareous soils and medium-height grassland communities (*Astrebla* and *Dichanthium*) on cracking clays. Riparian forests of River Gums fringe drainage lines. (3) In the south-west, Phanerozoic strata expressed as often lateritised upland sandplains with sparse trees. This component recurs as the Sturt Plateau Region in central Northern Territory.

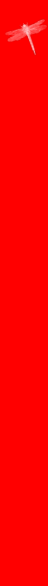


Species 25 Specimens 73 Adults 73 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Isostictidae													
<i>Austrosticta fieldi</i>				1									
<i>Eurysticta coomalie</i>				1									
Family Platycnemidae													
<i>Nososticta fraterna</i>						1	1						
<i>Nososticta liveringa</i>					12		1	2	1		4		
Family Coenagrionidae													
<i>Argiocnemis pygmaea</i>		1				2							
<i>Argiocnemis rubescens</i>						1							
<i>Austroagrion exclamationis</i>											2		
<i>Austroagrion watsoni</i>							1						

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Ceriagrion aeruginosum</i>							5						
<i>Ischnura aurora</i>							1						
<i>Ischnura heterosticta</i>						2							
<i>Pseudagrion jedda</i>						1	1						
<i>Pseudagrion microcephalum</i>							1						
<i>Xanthagrion erythron eurum</i>											2		
Family Aeshnidae													
<i>Gynacantha nourlangie</i>											2		
Family Gomphidae													
<i>Austrogomphus mjobergi</i>				1	1								
Family Libellulidae													
<i>Diplacodes bipunctata</i>				1	2	1							
<i>Diplacodes haematodes</i>					1	6				1	2		
<i>Diplacodes trivialis</i>						1					1		
<i>Lathrecista asiatica festa</i>											1		
<i>Orthetrum caledonicum</i>						3							
<i>Pantala flavescens</i>						1							
<i>Rhyothemis graphiptera</i>											2		
<i>Tramea loewii</i>									1				
<i>Tramea stenoloba</i>		1											



DAB Daly Basin

2,092,229 ha

Gently undulating plains and scattered low plateau remnants on Palaeozoic sandstones, siltstones and limestones; neutral loamy and sandy red earths; Darwin Stringybark and Darwin Woollybutt open forest with perennial and annual grass understorey.



Species 53 Specimens 254 Adults 254 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes insularis</i>		2											
<i>Lestes concinnus</i>		5		1							2		
Family Isostictidae													
<i>Austrosticta fieldi</i>		1											
<i>Eurysticta coomalie</i>		1									1		
<i>Rhadinosticta banksi</i>		1											
Family Platycnemidae													
<i>Nososticta coelestina</i>					4					1	2		
<i>Nososticta fraterna</i>		1		1	7	1		3	2	1	7		
Family Coenagrionidae													
<i>Aciagrion fragile</i>							1						
<i>Agriocnemis pygmaea</i>					1			1					
<i>Argiocnemis rubescens</i>					3		1						
<i>Austroagrion exclamationis</i>		1											
<i>Ceriagrion aeruginosum</i>					1								
<i>Ischnura aurora</i>		1			2	2							
<i>Ischnura heterosticta</i>		1				3							
<i>Pseudagrion jedda</i>		12			19		1	1			11		

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Pseudagrion lucifer</i>					3								
<i>Pseudagrion microcephalum</i>					7	6		1			2		
Family Aeshnidae													
<i>Anax gibbosulus</i>											1		
<i>Austrogynacantha heterogena</i>		1											
<i>Gynacantha nourlangie</i>						8	1						
<i>Hemianax papuensis</i>		1											
Family Gomphidae													
<i>Antipodogomphus dentosus</i>		4											
<i>Antipodogomphus neophytus</i>		3											
<i>Austrogomphus mjobergi</i>	1	17											
<i>Ictinogomphus australis</i>										1			
Family Macromiidae													
<i>Macromia tillyardi</i>	1												
Family Corduliidae													
<i>Hemicordulia intermedia</i>		1									2		
<i>Pentathemis membranulata</i>		1											
Family Libellulidae													
<i>Agrionoptera i.allogenes</i>					1		1						
<i>Crocothemis nigrifrons</i>											1		
<i>Diplacodes bipunctata</i>		3		1		1		1					
<i>Diplacodes haematodes</i>		1		5		1	1				1		
<i>Diplacodes nebulosa</i>		1				1							
<i>Diplacodes trivialis</i>											1		
<i>Hydrobasileus brevistylus</i>			1	1									
<i>Macrodiplax cora</i>											1		
<i>Nannodiplax rubra</i>		2			1		2	1			1		
<i>Nannophlebia eludens</i>					3								
<i>Nannophlebia injibandi</i>		1		5	3			1					
<i>Nannophlebia mudginberri</i>					2					2			
<i>Neurothemis stigmatizans</i>		1		4							1		
<i>Orthetrum caledonicum</i>		2		1	1			1					
<i>Orthetrum migratum</i>					2					1			
<i>Orthetrum sabina</i>						1							
<i>Orthetrum villosovittatum</i>					1								
<i>Pantala flavescens</i>		1				1							
<i>Potamarcha congener</i>		2											
<i>Rhodothemis lieftincki</i>					1		1			1	1		



The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Rhyothemis braganza</i>											1		
<i>Rhyothemis graphiptera</i>		2		2		1	1	1					
<i>Tholymis tillarga</i>		1			1						1		
<i>Tramea loewii</i>				1		1							
<i>Zyxomma elgneri</i>		1			1								

DAC Darwin Coastal

2,843,199 ha

Gently undulating plains on lateritised Cretaceous sandstones and siltstones; sandy and loamy red and yellow earths and siliceous sands from near the mouth of the Victoria River to just west of Cobourg Peninsula. The most notable vegetation feature is the extensive and diverse floodplain environment associated with the lower reaches of the many large river systems. There are also substantial areas of mangroves, and rainforest and other riparian vegetation fringing the rivers. Inland from the coast, the dominant vegetation type is eucalypt tall open forest, typically dominated by Darwin woollybutt (*Eucalyptus miniata*) and Darwin stringybark (*E. tetradonta*). Large waterbird colonies are a major conservation value of the bioregion.



Species 67 Specimens 885 Adults 885 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes insularis</i>	1						1						
<i>Indolestes alleni</i>											1	1	
<i>Indolestes obiri</i>					5						2		
Family Argiolestidae													
<i>Podopteryx selysi</i>													1
Family Platycnemididae													
<i>Nososticta baroalba</i>							5			4			
<i>Nososticta coelestina</i>							1	2					
<i>Nososticta fraterna</i>	1				1		6					2	2
<i>Nososticta koolpinyah</i>	1		1		2				1		1	10	
<i>Nososticta mouldsi</i>						7						1	
<i>Nososticta taracumbi</i>	1									1			

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Coenagrionidae													
<i>Aciagrion fragile</i>	1	1	1										
<i>Agriocnemis pygmaea</i>		1	1	5	1	3		3	1	2	4		
<i>Archibasis mimetes</i>								1					
<i>Argiocnemis rubescens</i>					1	1					1	1	
<i>Austroagrion exclamationis</i>	1	4	1		2	2	1	1			8		
<i>Austroagrion watsoni</i>								2					
<i>Austrocnemis maccullochi</i>		2					1	5					
<i>Ceriagrion aeruginosum</i>	2				2	2	2	10	5	5	4		1
<i>Ischnura aurora</i>					1	3		6			1		1
<i>Ischnura heterosticta</i>		1	4	12	6	8	1	8	4	7	3		
<i>Ischnura pruinescens</i>				5	4	1	3	6	1	1			2
<i>Pseudagrion cingillum</i>					1						7	1	
<i>Pseudagrion jedda</i>					1		16					1	
<i>Pseudagrion lucifer</i>							4	1			1	1	
<i>Pseudagrion microcephalum</i>		2	1		9	1	2	1				1	
Family Aeshnidae													
<i>Anaciaeschna jaspidea</i>	1		1	1									
<i>Anax gibbosulus</i>		2			1					2	2	1	
<i>Anax guttatus</i>	2	2	3	5	1			2	1			1	
<i>Gynacantha dobsoni</i>	1			1			1	1					
<i>Gynacantha nourlangie</i>					2		1	3			2		
<i>Hemianax papuensis</i>			1		1								2
Family Gomphidae													
<i>Austroepigomphus turneri</i>											2		
<i>Ictinogomphus australis</i>			1	1						2	4	2	
Family Corduliidae													
<i>Hemicordulia kalliste</i>	1												
<i>Pentathemis membranulata</i>												1	
Family Libellulidae													
<i>Aethriamanta circumsignata</i>	1			1									
<i>Aethriamanta nymphaea</i>			1					2					
<i>Agrionoptera i.allogenes</i>	1				1		1	1	2			3	
<i>Brachydiplax denticauda</i>			1	5	2		2	2	6	1	1	2	3
<i>Camacinia othello</i>		1											1
<i>Crocothemis nigrifrons</i>	1				2	4	1			1			1
<i>Diplacodes bipunctata</i>	2	3	5	5	1	2		4	1	1			2
<i>Diplacodes haematodes</i>						1			1				

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Diplacodes nebulosa</i>		1						2			1		
<i>Diplacodes trivialis</i>	4		6	3	4	5		1	7	9	4	1	2
<i>Hydrobasileus brevistylus</i>			1	12		2		4	3	2			2
<i>Lathrecista asiatica festa</i>	2	1	6		3	1		4	4		2	1	
<i>Macrodiplax cora</i>				1	1		1		2	5	1		
<i>Nannodiplax rubra</i>	2	2		2	1	3	1	6	8			1	1
<i>Nannophlebia eludens</i>		1							1			2	
<i>Nannophlebia injibandi</i>													1
<i>Neurothemis stigmatizans</i>	5	5	11	1	1	9	11	8	25	7	7	6	4
<i>Orthetrum balteatum</i>												1	
<i>Orthetrum caledonicum</i>	1		1		1				2	1	1		
<i>Orthetrum migratum</i>	1								1				
<i>Orthetrum sabina</i>	3		5	1	3	4		1	9	2	3	1	2
<i>Orthetrum serapia</i>						1							
<i>Orthetrum villosovittatum</i>	1				1							1	
<i>Pantala flavescens</i>	2	1	1	1	1	3					1	1	1
<i>Potamarcha congener</i>	1										1		
<i>Rhodothemis lieftincki</i>	3						3		2				
<i>Rhyothemis braganza</i>	1	1		1					2		4	1	2
<i>Rhyothemis graphiptera</i>	2	3	10	5	6	5	3	4	3	3	1		2
<i>Rhyothemis phyllis</i>	1	1	4					1		2	2	1	
<i>Tholymis tillarga</i>	1	3		4	4		2	2	1	1		1	
<i>Tramea loewii</i>	2		25	3	4	4	1	3	1	2	3		1
<i>Tramea stenoloba</i>									1	1			



TIW Tiwi Cobourg

1,010,580 ha

This coastal region includes Australia's second and fifth largest islands (Melville and Bathurst Island in the Tiwi island group), Croker Island and the adjacent Cobourg Peninsula. Coastal vegetation includes some mangroves and saline flats, although this bioregion lacks the large rivers which influence vegetation patterning in other coastal regions. Most of this bioregion is covered by tall eucalypt open forests, typically dominated by



Darwin woollybutt (*Eucalyptus miniata*), Darwin stringybark (*E. tetradonta*) and Melville Island bloodwood (*E. nesophila*), but often with northern cypress-pine *Callitris intratropica* and the tall palm *Gronophyllum ramsayi* co-dominant. The Tiwi Islands support a relatively high density and total area of monsoon rainforest patches, with distinctive species composition. There are also substantial areas there of a distinctive "treeless plain" vegetation. This bioregion is of low relief, with laterite and Cretaceous sandstone the dominant substrates. The Tiwi Islands support about 20 endemic plant and vertebrate animal taxa. The bioregions contains some important marine turtle breeding sites, and a Ramsar wetland on the Cobourg Peninsula. The bioregion is entirely Aboriginal land.

Species 44 Specimens 366 Adults 366 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes insularis</i>		10											
<i>Indolestes alleni</i>						2							
<i>Lestes concinnus</i>							1						
Family Platycnemidae													
<i>Nososticta fraterna</i>										32			
<i>Nososticta koolpinyah</i>						13		1		60			

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Nososticta taracumbi</i>						10	1			21			
Family Coenagrionidae													
<i>Aciagrion fragile</i>										19			
<i>Agriocnemis pygmaea</i>										1			
<i>Archibasis mimetes</i>								1					
<i>Argiocnemis rubescens</i>										1			
<i>Austroagrion exclamationis</i>		3				1				12			
<i>Austrocnemis maccullochi</i>										5			
<i>Ceriagrion aeruginosum</i>								1		11			2
<i>Ischnura heterosticta</i>		5								3			
<i>Pseudagrion lucifer</i>						1							
<i>Pseudagrion microcephalum</i>										3			
Family Aeshnidae													
<i>Anax gibbosulus</i>							1	1		2			
<i>Anax guttatus</i>		1	2										
<i>Austrogynacantha heterogena</i>		1											
Family Gomphidae													
<i>Austroepigomphus turneri</i>										1			
Family Macromiidae													
<i>Macromia tillyardi</i>										1			
Family Corduliidae													
<i>Pentathemis membranulata</i>										4			
Family Libellulidae													
<i>Aethriamanta circumsignata</i>										1			
<i>Agrioptera i.allogenes</i>		1				1							
<i>Brachydiplax denticauda</i>										1			
<i>Diplacodes bipunctata</i>	1	5								2			
<i>Diplacodes haematodes</i>							3	1		5			
<i>Diplacodes trivialis</i>	1	12								3			1
<i>Huonia melvillensis</i>										5			
<i>Lathrecista asiatica festa</i>		2								1			
<i>Macrodiplax cora</i>		2											
<i>Nannodiplax rubra</i>										16			1
<i>Nannophlebia mudginberri</i>										3			
<i>Neurothemis stigmatizans</i>		7					2	2		6	1		1
<i>Orthetrum caledonicum</i>							2			4			
<i>Orthetrum migratum</i>										5			
<i>Orthetrum sabina</i>		2								1			1



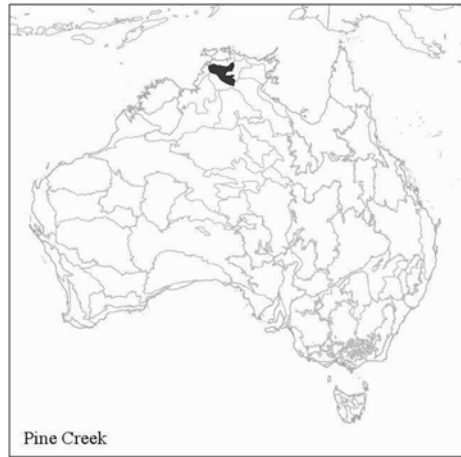
The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Orthetrum villosovittatum</i>	1						1						
<i>Pantala flavescens</i>	1	7									1		
<i>Rhyothemis braganza</i>	1	2								2	2		
<i>Tholymis tillarga</i>		1						1				1	
<i>Tramea loewii</i>		5	1										
<i>Tramea stenoloba</i>		2											
<i>Urothemis aliena</i>										1			

PCK Pine Creek

2,851,777 ha

Foothill environments below and to the west of the western Arnhem Land sandstone massif. Its main defining feature is the highly mineraliferous Pine Creek Geosyncline, comprising Archaean granite and gneiss overlain by Palaeoprotozoic sediments. The major vegetation types are eucalypt tall open forests, typically dominated by Darwin woollybutt (*Eucalyptus miniata*) and Darwin stringybark (*E. tetradonta*), and woodlands (dominated by a range of species including *E. grandifolia*, *E. latifolia*, *E. tintinnans*, *E. confertiflora* and *E. tectiflora*), with smaller areas of monsoon rainforest patches, *Melaleuca* woodlands, riparian vegetation and tussock grasslands. Characteristic species include the granivorous birds Gouldian finch *Erythrura gouldii*, hooded parrot *Psephotus dissimilis* and partridge pigeon *Geophaps smithii*.



Species 74 Specimens 1048 Adults 1048 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes insularis</i>	1				1	1				1	3		
<i>Indolestes obiri</i>			1		1						1		
<i>Lestes concinnus</i>	2	2	2		5	2					5		
Family Isostictidae													
<i>Austrosticta fieldi</i>			2		1						3		
<i>Eurysticta coomalie</i>		3	2										
<i>Lithosticta macra</i>			3	1	1								
<i>Rhadinosticta banksi</i>	1	1											
Family Platynemidae													
<i>Nososticta baroalba</i>	1	7	11	2	10	1	3				13	7	
<i>Nososticta coelestina</i>							1	1				1	
<i>Nososticta fraterna</i>	3	1	2		14		5	4			20	9	

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Nososticta koongarra</i>			4		8	1		1			17		
Family Coenagrionidae													
<i>Aciagrion fragile</i>			1		4				1		15		
<i>Agriocnemis pygmaea</i>			1		6	1	1	1			11	1	
<i>Agriocnemis rubricauda</i>			3							1	1	1	
<i>Archibasis mimetes</i>											1		
<i>Argiocnemis rubescens</i>			4		7		2		1		7	2	
<i>Austroagrion exclamationis</i>			3		10	4	2	3		3	10	4	
<i>Austroagrion watsoni</i>											1		
<i>Austrocnemis maccullochi</i>					14	8		3			9	2	
<i>Ceriagrion aeruginosum</i>					2						1	5	
<i>Ischnura aurora</i>		1	1	2	4	1		1	4		3		
<i>Ischnura heterosticta</i>				1	11	8	1	3	1	2	9	3	
<i>Ischnura pruinescens</i>					4	1		4	3	1	4	2	
<i>Pseudagrion cingillum</i>					5	1						2	
<i>Pseudagrion jedda</i>	1				24		2					1	1
<i>Pseudagrion lucifer</i>					4								
<i>Pseudagrion microcephalum</i>			2		19	3	2				6	3	
Family Aeshnidae													
<i>Anax gibbosulus</i>			1		1					1			
<i>Anax guttatus</i>												1	
<i>Austrogynacantha heterogena</i>				3	2								
<i>Gynacantha dobsoni</i>			2								1	1	
<i>Gynacantha nourlangie</i>			2		6		4						1
<i>Hemianax papuensis</i>		1	1		1								
Family Gomphidae													
<i>Antipodogomphus neophytus</i>											1		
<i>Austrogomphus mjobergi</i>	1	1											
<i>Hemigomphus magela</i>				2							9		
<i>Ictinogomphus australis</i>					2						7		
Family Macromiidae													
<i>Macromia tillyardi</i>												1	
Family Corduliidae													
<i>Hemicordulia intermedia</i>			2	2			2				1	2	
<i>Pentathemis membranulata</i>											10	4	
Family Libellulidae													
<i>Aethriamanta circumsignata</i>			3		1							2	
<i>Aethriamanta nymphaea</i>						1		1				7	

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Agrionoptera i.allogenes</i>			1		3						2	1	
<i>Brachydiplax denticauda</i>			1	2	3					1	6	3	
<i>Crocothemis nigrifrons</i>			1		1					1	2	2	
<i>Diplacodes bipunctata</i>		1	7	2	6	2	1	1					
<i>Diplacodes haematodes</i>			2	7	3			3	2		3	2	
<i>Diplacodes nebulosa</i>		1	2		3						3	2	
<i>Diplacodes trivialis</i>			2		3	2		3		3	2	2	
<i>Hydrobasileus brevistylus</i>			3						1		5	2	
<i>Lathrecista asiatica festa</i>			2		1							1	
<i>Macrodiplax cora</i>			3		3				1		4	1	
<i>Nannodiplax rubra</i>	1		3	2	8	6	3	1	7		10	2	1
<i>Nannophlebia eludens</i>			1		4	1		1			5	1	
<i>Nannophlebia injibandi</i>				3	2								
<i>Nannophlebia mudginberri</i>			4		3	1	2				3		
<i>Neurothemis stigmatizans</i>	1	3	6	2	10	4	2	4	5	2	5	11	
<i>Notolibellula bicolor</i>				2									
<i>Orthetrum balteatum</i>											1	3	
<i>Orthetrum caledonicum</i>					2						3		
<i>Orthetrum migratum</i>			4	1	2		1	1			3	3	
<i>Orthetrum sabina</i>			5		3	1	1	2			4	1	
<i>Orthetrum villosovittatum</i>			1		2								
<i>Pantala flavescens</i>			3		2	2							
<i>Potamarcha congener</i>	1		2		2						3		
<i>Rhodothemis lieftincki</i>			1		1				2		7	2	
<i>Rhyothemis braganza</i>			4						1		3	9	
<i>Rhyothemis graphiptera</i>	2	3	5	2	4	1	2	3	6		4	3	
<i>Rhyothemis phyllis</i>											2	2	
<i>Tholymis tillarga</i>		2	4	1	5		1	1			5	1	
<i>Tramea loewii</i>		1	4	2	3	1	2	1			6	1	
<i>Urothemis aliena</i>					2						1	3	
<i>Zyxomma elgneri</i>		1			5			1		1	3	3	
Genera incertae sedis													
<i>Austrocordulia territoria</i>					9								



ARP

Arnhem Plateau

2,306,023 ha

The extensive and highly dissected Proterozoic sandstone massif of western Arnhem Land, which forms the headwaters of many of the major river systems of the Top End. It supports an unusually diverse biota, including very many relictual and endemic plant and animal species. The major vegetation types include sandstone heathlands, rainforests (characteristically dominated by the endemic tree *Allosyncarpia ternata*), hummock grasslands and eucalypt open woodlands (with a range of dominants including *Eucalyptus phoenicea*, *E. kombolgiensis*, *E. miniata* and *E. dichromophloia*). Most of the bioregion is Aboriginal land, including a major part of Kakadu National Park.



Species 52 Specimens 149 Adults 149 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes insularis</i>											1		
<i>Indolestes alleni</i>											1		
<i>Indolestes obiri</i>						3					1		
Family Isostictidae													
<i>Austrosticta fieldi</i>						1							
<i>Eurysticta coomalie</i>											1		
<i>Lithosticta macra</i>					2	1							
Family Platycnemidae													
<i>Nososticta baroalba</i>					1								
<i>Nososticta coelestina</i>					1								
<i>Nososticta fraterna</i>											2		
Family Coenagrionidae													
<i>Aciagrion fragile</i>						1							
<i>Agriocnemis pygmaea</i>					1	1							

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Argiocnemis rubescens</i>						1							
<i>Austroagrion exclamationis</i>						1		4			1		
<i>Austrocnemis maccullochi</i>						1					2		
<i>Ceriagrion aeruginosum</i>								2			4		
<i>Ischnura aurora</i>						1		7					
<i>Ischnura heterosticta</i>					3	2		7			4		
<i>Ischnura pruinescens</i>					3						2		
Family Aeshnidae													
<i>Gynacantha dobsoni</i>					2						2		
<i>Gynacantha nourlangie</i>					2						1		
<i>Hemianax papuensis</i>					1	1							
Family Gomphidae													
<i>Austroepigomphus turneri</i>											5		
<i>Ictinogomphus australis</i>					1						3		
Family Corduliidae													
<i>Pentathemis membranulata</i>											1		
Family Libellulidae													
<i>Agrionoptera i.allogenes</i>										1	1		
<i>Brachydiplax denticauda</i>		1								1	2		
<i>Crocothemis nigrifrons</i>					1						1		
<i>Diplacodes bipunctata</i>					1	1							
<i>Diplacodes haematodes</i>						1							
<i>Diplacodes nebulosa</i>						1					2		
<i>Diplacodes trivialis</i>					1	1		1		1	1		
<i>Hydrobasileus brevistylus</i>					1					1	2		
<i>Lathrecista asiatica festa</i>			1							1	1		
<i>Macrodiplax cora</i>					1						2		
<i>Nannodiplax rubra</i>						1							
<i>Nannophlebia eludens</i>					1								
<i>Nannophlebia mudginberri</i>					2								
<i>Neurothemis stigmatizans</i>					1						1		
<i>Notolibellula bicolor</i>					1								
<i>Orthetrum caledonicum</i>					1								
<i>Orthetrum migratum</i>					1						2		
<i>Orthetrum sabina</i>					1	1					1		
<i>Potamarcha congener</i>										1	1		
<i>Rhodothemis lieftincki</i>											2		
<i>Rhyothemis braganza</i>											2		

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Rhyothemis graphiptera</i>					1	1					1		
<i>Rhyothemis phyllis</i>					1								
<i>Tholymis tillarga</i>										1	1		
<i>Tramea loewii</i>										1			
<i>Urothemis aliena</i>				1						1	4		
<i>Zyxomma elgneri</i>										1	1		
<i>Zyxomma petiolatum</i>					1					1	1		

ARC Arnhem Coast

3,335,669 ha

Coastal strip extending from just east of Cobourg Peninsula to just north of the mouth of the Rose River in southeastern Arnhem Land, and including many offshore islands, most notably Groote Eylandt (and its satellites), the English Company and Wessel group, and the Crocodile Islands. Coastal vegetation includes well developed heathlands, mangroves and saline flats, with some floodplain and wetland areas, most notably the extensive paperbark forest and sedgelands of the Arafura Swamp. Coastal dune systems are unusually well developed on sections of Groote Eylandt and Cape Arnhem Peninsula. Rugged Cretaceous sandstone areas occur on Groote Eylandt and islands of the Wessel group. Tertiary laterites are extensive on the Gove Peninsula. Inland from the coast, the dominant vegetation type is eucalypt tall open forest, typically dominated by Darwin woollybutt (*Eucalyptus miniata*) and Darwin stringybark (*E. tetradonta*), with smaller areas of monsoon rainforest and eucalypt woodlands.



Species 52 Specimens 183 Adults 183 Larvae 0

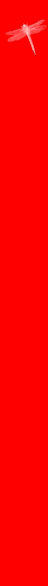
	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Indolestes alleni</i>	2												
<i>Indolestes obiri</i>						2							
<i>Lestes concinnus</i>					1						2		
Family Platycnemididae													
<i>Nososticta fraterna</i>											3		
Family Coenagrionidae													
<i>Aciagrion fragile</i>	1					1							
<i>Agriocnemis pygmaea</i>					1	2					2		
<i>Agriocnemis rubricauda</i>								1					
<i>Agriocnemis rubescens</i>						2							

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austroagrion exclamationis</i>	1	2			2								
<i>Ceriagrion aeruginosum</i>	3							1					
<i>Ichnura heterosticta</i>					2	2		1			1		
<i>Pseudagrion jedda</i>					1								
<i>Pseudagrion microcephalum</i>											2		
Family Aeshnidae													
<i>Anax georgius</i>								1					
<i>Anax gibbosulus</i>											1	1	
<i>Anax guttatus</i>	1												
<i>Austrognacantha heterogena</i>						1							
<i>Gynacantha dobsoni</i>											1		
<i>Gynacantha kirbyi</i>							1						
<i>Gynacantha nourlangie</i>						1							
<i>Gynacantha rosenbergi</i>								1					
Family Gomphidae													
<i>Austroepigomphus turneri</i>	10												
<i>Ictinogomphus australis</i>									1				1
Family Corduliidae													
<i>Hemicordulia kalliste</i>	1												
<i>Pentathemis membranulata</i>	1												
Family Libellulidae													
<i>Agrionoptera i.allogenes</i>	1							1					
<i>Brachydiplax denticauda</i>	1							1			2	1	
<i>Crocothemis nigrifrons</i>								8					
<i>Diplacodes bipunctata</i>	2		2	2									
<i>Diplacodes haematodes</i>					1	1					1		
<i>Diplacodes nebulosa</i>	1												
<i>Diplacodes trivialis</i>	2				1	1		5			1		
<i>Lathrecista asiatica festa</i>	2							2					
<i>Macrodiplax cora</i>								7				1	
<i>Nannodiplax rubra</i>	2		1	3	1	1		1					
<i>Nannophya paulsoni</i>	1												
<i>Neurothemis oligoneura</i>												1	
<i>Neurothemis stigmatizans</i>	3		2					3					
<i>Orthetrum balteatum</i>	1												
<i>Orthetrum caledonicum</i>	1							1			1		
<i>Orthetrum migratum</i>	3												
<i>Orthetrum sabina</i>	1				1			4					

The Distribution of Australian Dragonflies

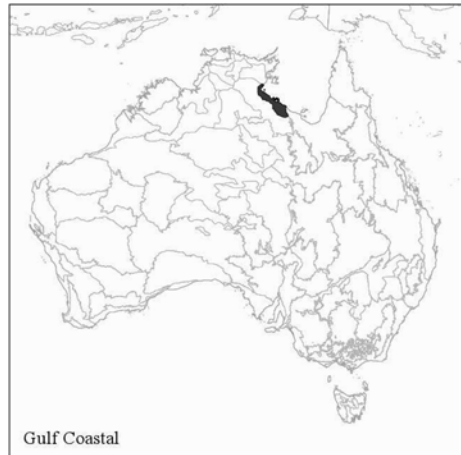
	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Pantala flavescens</i>	1	2		2									
<i>Potamarcha congener</i>						1				1			
<i>Rhodothemis lieftincki</i>	1				1						1		
<i>Rhyothemis braganza</i>	2												
<i>Rhyothemis graphiptera</i>	1			1		2		6					
<i>Rhyothemis phyllis</i>	1							6		3		1	
<i>Tholymis tillarga</i>						2		1			3		
<i>Tramea loewii</i>	1							2					
<i>Tramea stenoloba</i>	1												
<i>Urothemis aliena</i>	1												



GUC Gulf Coastal

2,711,718 ha

Gently undulating plains with scattered rugged areas on Proterozoic sandstones and Tertiary sediments; sandy red earths and shallow gravelly, sandy soils; Darwin Stringybark woodland with spinifex understorey.

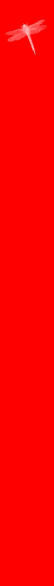


Species 21 Specimens 36 Adults 36 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes insularis</i>											2		
<i>Lestes concinnus</i>										2	1	1	
Family Platycnemidae													
<i>Nososticta coelestina</i>			1										
<i>Nososticta fraterna</i>						2					2	1	
Family Coenagrionidae													
<i>Argiocnemis pygmaea</i>											2		
<i>Argiocnemis rubescens</i>						1							
<i>Austroagrion exclamationis</i>											1		
<i>Austroagrion watsoni</i>						1							
<i>Pseudagrion aureofrons</i>						1							
<i>Pseudagrion jedda</i>											1		
<i>Pseudagrion microcephalum</i>											1		
Family Aeshnidae													
<i>Gynacantha dobsoni</i>										1			
<i>Gynacantha nourlangie</i>					1								
<i>Hemianax papuensis</i>		2										1	

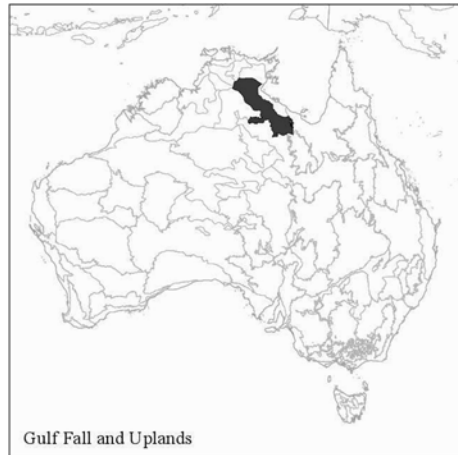
The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Libellulidae													
<i>Diplacodes bipunctata</i>	2									1			
<i>Diplacodes haematodes</i>											1		
<i>Nannodiplax rubra</i>											1		
<i>Orthetrum caledonicum</i>		1											
<i>Pantala flavescens</i>	2												
<i>Rhyothemis graphiptera</i>			1						1				
<i>Tramea loewii</i>			1										



GFU Gulf Fall and Uplands 11,847,909 ha

Undulating terrain with scattered low, steep hills on Proterozoic and Palaeozoic sedimentary rocks, often overlain by lateritised Tertiary material; skeletal soils and shallow sands; Darwin Boxwood and Variable-barked Bloodwood woodland to low open woodland with spinifex understorey.



Species 47 Specimens 257 Adults 255 Larvae 2

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes insularis</i>											1		
<i>Lestes concinnus</i>				1	2					1	4		
Family Isostictidae													
<i>Austrosticta fieldi</i>				1	1					1			
<i>Austrosticta frater</i>				4									1
Family Platycnemidae													
<i>Nososticta fraterna</i>	1								1	9	4		
Family Coenagrionidae													
<i>Agriocnemis argentea</i>										5			
<i>Agriocnemis pygmaea</i>										3	3		
<i>Argiocnemis rubescens</i>										5	4		
<i>Austroagrion exclamationis</i>										4	4		
<i>Austroagrion watsoni</i>					4					5			
<i>Austrocnemis maccullochi</i>										4	6		
<i>Ceriagrion aeruginosum</i>	1											1	
<i>Ischnura aurora</i>				6	3				1	4			1
<i>Ischnura heterosticta</i>										3	3		
<i>Pseudagrion aureofrons</i>										2			

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Pseudagrion cingillum</i>										8	1		
<i>Pseudagrion jedda</i>	1									8	2		
<i>Pseudagrion microcephalum</i>	1				2				3	3	10		
<i>Xanthagrion erythroneurum</i>											1		
Family Aeshnidae													
<i>Gynacantha nourlangie</i>				2						4	1		
<i>Hemianax papuensis</i>	2						1	1					
Family Gomphidae													
<i>Antipodogomphus neophytus</i>	1												
<i>Austroepigomphus turneri</i>											2		2
<i>Austrogomphus mjobergi</i>											1		
<i>Ictinogomphus australis</i>					1					1	2		
Family Corduliidae													
<i>Hemicordulia intermedia</i>	1									7			
Family Libellulidae													
<i>Aethriamanta circumsignata</i>										1			
<i>Crocothemis nigrifrons</i>										1	1		
<i>Diplacodes bipunctata</i>										1	1		
<i>Diplacodes haematodes</i>				8			1		1	3	2		
<i>Macrodiplax cora</i>				1						2	2		
<i>Nannodiplax rubra</i>					3					2	1	1	1
<i>Nannophlebia injibandi</i>										6	1		
<i>Neurothemis oligoneura</i>										1			
<i>Neurothemis stigmatizans</i>										1	1		
<i>Notolibellula bicolor</i>										1	1		
<i>Orthetrum caledonicum</i>	1				1					2			1
<i>Orthetrum migratum</i>					2					4			
<i>Pantala flavescens</i>	1												
<i>Potamarcha congener</i>										1	1		
<i>Rhodothemis lieftincki</i>											2		
<i>Rhyothemis braganza</i>				2						2			
<i>Rhyothemis graphiptera</i>				1						4	3		
<i>Tholymis tillarga</i>											2		
<i>Tramea loewii</i>					1					3			
<i>Tramea stenoloba</i>				1								1	
<i>Zyxomma elgneri</i>										1	2		



STU Sturt Plateau

9,857,531 ha

Gently undulating plains on lateritised Cretaceous sandstones; neutral sandy red and yellow earths; variable-barked Bloodwood woodland with spinifex understorey.

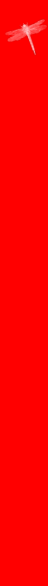


Species 26 Specimens 70 Adults 70 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Lestes concinnus</i>				2			3					1	
Family Isostictidae													
<i>Eurysticta kununurra</i>	1												
Family Platycnemidae													
<i>Nososticta fraterna</i>				1	1							1	
Family Coenagrionidae													
<i>Agriocnemis pygmaea</i>				1									
<i>Austroagrion exclamationis</i>					1								
<i>Ceriagrion aeruginosum</i>							3						
<i>Ischnura aurora</i>				4									
<i>Ischnura heterosticta</i>							1						
<i>Pseudagrion microcephalum</i>					1								
<i>Xanthagrion erythroneurum</i>	1												
Family Aeshnidae													
<i>Anax gibbosulus</i>												1	
<i>Austrogynacantha heterogena</i>				4									
<i>Hemianax papuensis</i>			2	1									

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Corduliidae													
<i>Pentathemis membranulata</i>												2	
Family Libellulidae													
<i>Crocothemis nigrifrons</i>						1							
<i>Diplacodes bipunctata</i>			2	6									
<i>Diplacodes haematodes</i>				3	1		1						
<i>Diplacodes trivialis</i>						4							
<i>Neurothemis oligoneura</i>						6							
<i>Orthetrum caledonicum</i>				3			1						
<i>Orthetrum sabina</i>						3						1	
<i>Pantala flavescens</i>			1			1							
<i>Rhyothemis graphiptera</i>			1										
<i>Rhyothemis phyllis</i>			1										
<i>Tamea loewii</i>						1							
<i>Tamea stenoloba</i>			1										



BRT Burt Plain

7,379,719 ha

Plains and low rocky ranges of Pre-Cambrian granites with mulga and other acacia woodlands on red earths.



Species 12 Specimens 65 Adults 55 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes aridus</i>		2			1						1		
Family Coenagrionidae													
<i>Ischnura aurora</i>				1									
<i>Ischnura heterosticta</i>		3											
<i>Xanthagrion erythroneurum</i>	3	16		1					6			2	
Family Aeshnidae													
<i>Hemianax papuensis</i>			1									1	
Family Corduliidae													
<i>Hemicordulia tau</i>				2				1					
Family Libellulidae													
<i>Diplacodes bipunctata</i>			2		2					1			
<i>Diplacodes haematodes</i>				1								1	
<i>Orthetrum caledonicum</i>	3	1	1	1						1		1	
<i>Rhyothemis graphiptera</i>											1		
<i>Tholymis tillarga</i>		1											
<i>Tramea stenoloba</i>	1	2		1								3	

MAC MacDonnell Ranges 3,929,444 ha

High relief ranges and foothills covered with spinifex hummock grassland, sparse acacia shrublands and woodlands along watercourses.



Species 20 Specimens 264 Adults 264 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes annulosus</i>	3		1										
<i>Austrolestes aridus</i>												1	
Family Coenagrionidae													
<i>Argiocnemis rubescens</i>							1						
<i>Austroagrion watsoni</i>					1				2	1	1		
<i>Ischnura aurora</i>	4	2	4	3		1	1	1	1			2	
<i>Ischnura heterosticta</i>	1	1	3		1		1	2	1	2			
<i>Xanthagrion erythroneurum</i>	6			2	4		1	1		4			1
Family Aeshnidae													
<i>Austrogynacantha heterogena</i>											1		
<i>Hemianax papuensis</i>	3	5	9	6			2	1			1	2	
Family Corduliidae													
<i>Hemicordulia flava</i>	2											3	
<i>Hemicordulia tau</i>			2		2		1						
Family Libellulidae													
<i>Crocothemis nigrifrons</i>			3	2									
<i>Diplacodes bipunctata</i>		2	5	12	1	1	1		5	1			1
<i>Diplacodes haematodes</i>	2	8	23	4	3		1	2	3	12	4		

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Orthetrum caledonicum</i>	4	7	15	5			1	2	3	6	4	1	
<i>Orthetrum migratum</i>		1		2							1		
<i>Pantala flavescens</i>		3	2					1	1				
<i>Rhyothemis graphiptera</i>		1											
<i>Tramea loewii</i>		1								2			
<i>Tramea stenoloba</i>			2	1							1		

FIN Finke

7,267,416 ha

Arid sandplains, dissected uplands and valleys formed from Pre-Cambrian volcanics with spinifex hummock grasslands and acacia shrublands on red earths and shallow sands.



Species 12 Specimens 53 Adults 53 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes aridus</i>								2					
Family Coenagrionidae													
<i>Ischnura aurora</i>									1				
<i>Ischnura heterosticta</i>		2							3	1			
<i>Xanthagrion erythroneurum</i>										1			
Family Aeshnidae													
<i>Hemianax papuensis</i>		1											
Family Corduliidae													
<i>Hemicordulia flava</i>		1											
<i>Hemicordulia tau</i>		2											1
Family Libellulidae													
<i>Diplacodes bipunctata</i>		4											
<i>Diplacodes haematodes</i>		10	1						6				
<i>Orthetrum caledonicum</i>		7	1	3					2		1		
<i>Pantala flavescens</i>		1	1										
<i>Tramea loewii</i>		1											

KIN King

425,567 ha

Perhumid warm coastal plains and low hills comprising King Island and the north-western tip of Tasmania. It is a region of subdued topography and low relief. Precambrian metamorphic rocks are overlain by diverse soils, including recent marine deposits covered by deep sandy profiles that support extensive *Eucalyptus obliqua* open forest and *Nothofagus cunninghamii* closed forest. *Acacia melanoxylon* closed forest and *Melaleuca ericifolia* closed forest occur on poorly drained low-lying sites. The vegetation of King Island has been substantially degraded by clearing and burning following European settlement.



Species 12 Specimens 30 Adults 30 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Order Odonata													
Family Lestidae													
<i>Austrolestes analis</i>	1										2		
<i>Austrolestes annulosus</i>													1
<i>Austrolestes cingulatus</i>											1		
<i>Austrolestes io</i>		1											
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>		2										1	
<i>Austroaeschna hardyi</i>		3	1							4			
<i>Austroaeschna parvistigma</i>			1							1			
<i>Austroaeschna unicornis</i>										1			
Family Gomphidae													
<i>Austrogomphus guerini</i>		2											

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synthemistidae													
<i>Synthemis tasmanica</i>		1											
Family Corduliidae													
<i>Hemicordulia tau</i>		1									1		
<i>Procordulia jacksoniensis</i>	1	1							3				



FUR Furneaux

537,543 ha

Moist and dry subhumid warm coastal plains and granitic island chain comprised of the Furneaux islands and coastal north-eastern Tasmania. Devonian granites dominate the elevated areas of the subregion forming low rugged ranges. These are overlain by shallow stony/gravelly gradational or duplex soils carrying *Eucalyptus amygdalina* open forest and woodland with *Eucalyptus nitida* open heath on higher peaks. Quaternary/Tertiary materials overlain by deep sandy soils typify extensive lowland plains, coastal deposits and dunes. Coastal plains have been heavily modified by agriculture (grazing).



Species 30 Specimens 530 Adults 530 Larvae 0

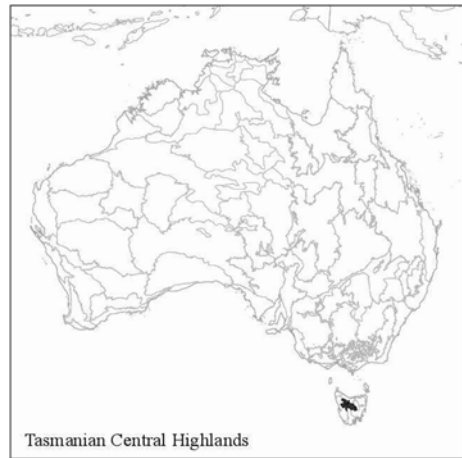
	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Hemiphlebiidae													
<i>Hemiphlebia mirabilis</i>	11			1							5	4	
Family Synlestidae													
<i>Synlestes weyersii</i>		1											
Family Lestidae													
<i>Austrolestes analis</i>	8	7	3	1	1					5	15	8	1
<i>Austrolestes annulosus</i>	9	3	9	1	2	5	7		6	15	23	9	
<i>Austrolestes cingulatus</i>	1					1							
<i>Austrolestes io</i>	3	1								5	2		
<i>Austrolestes leda</i>									1		1		
<i>Austrolestes psyche</i>	9	6	6				4		2	8	8	11	
Family Argiolestidae													
<i>Austroargiolestes icteromelas</i>		1											
Family Coenagrionidae													
<i>Austroagrion watsoni</i>	2	2	4						4	4	5	2	
<i>Ausrocoenagrion lyelli</i>										1	1	5	
<i>Ischnura aurora</i>	3	5	1						2	5	8	4	

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Ichnura heterosticta</i>	6	4	4	1	1	2	2		8	11	13	5	
<i>Xanthagrion erythroneurum</i>	2	1	2							1	5	2	
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	4	10	8	4	1	5			3	7	10	4	1
<i>Austroaeschna multipunctata</i>	3	3											
<i>Austroaeschna tasmanica</i>				1									
<i>Austroaeschna unicornis</i>										3			
<i>Hemianax papuensis</i>	2	1								2			
Family Gomphidae													
<i>Austrogomphus guerini</i>		1	1						1	1	5	1	
Family Synthemistidae													
<i>Archaeosynthemis orientalis</i>	1												
<i>Eusynthemis guttata</i>	1												
<i>Synthemis eustalacta</i>	3											1	
<i>Synthemis tasmanica</i>			2		1								1
Family Corduliidae													
<i>Hemicordulia tau</i>	3	5	2						3	5	7	3	
<i>Procordulia jacksoniensis</i>	2	3	3				1		1	8	12	3	
Family Libellulidae													
<i>Austrothemis nigrescens</i>	1	1									1		
<i>Diplacodes bipunctata</i>	1	2								1	1	1	
<i>Nannophya dalei</i>	3										6		
<i>Orthetrum caledonicum</i>											1		



TCH **Tasmanian Central Highlands** 767,849 ha

Perhumid cool to cold high plateau surface and rugged mountain ranges to the west formed by Jurassic dolerite and Tertiary basalts, with skeletal soils to alluvium in valleys, and humid cool to cold lower plateau surface underlain by Jurassic dolerite, Permo-Triassic sediments and Tertiary basalts, with sandy to clay loam soils. Vegetation ranging from dry sclerophyll woodlands and wet sclerophyll forest on the lower plateau to alpine complexes and coniferous forest patches in fertile, fire protected situations on the higher plateau. Land use is a combination of conservation, forestry, agriculture (grazing) and water catchment.

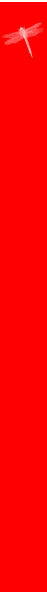


Species 19 Specimens 182 Adults 182 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes analis</i>		2											
<i>Austrolestes annulosus</i>	2	2	1									1	
<i>Austrolestes cingulatus</i>	4	7									1	8	
<i>Austrolestes io</i>											1	1	
<i>Austrolestes psyche</i>	7	9										6	
Family Coenagrionidae													
<i>Ausrocoenagrion lyelli</i>												1	
<i>Ischnura aurora</i>	1	2										1	
<i>Ischnura heterosticta</i>	1												1
Family Austropetaliidae													
<i>Archipetalia auriculata</i>	4											2	2
Family Aeshnidae													
<i>Austroaeschna hardyi</i>	15	11	2	1						1			
<i>Austroaeschna parvistigma</i>	2	9	1		1						3		
<i>Austroaeschna tasmanica</i>	1	3	1							2			

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austroaeschna unicornis</i>													1
<i>Hemianax papuensis</i>													1
Family Gomphidae													
<i>Austrogomphus guerini</i>	1												1
Family Synthemistidae													
<i>Syn. gomphomacromioides</i>	7	4											1
<i>Synthemis tasmanica</i>	9	22	1								2	2	
Family Corduliidae													
<i>Hemicordulia tau</i>		4	1								2		
<i>Procordulia jacksoniensis</i>	1	1											1



BEL

Ben Lomond

657,500 ha

Humid cool/cold mountain ranges situated in Tasmania's inland north-east. The mountains are capped by Jurassic dolerite with shallow gradational soils. Silurian-Devonian siltstones and mudstones covered with gradational soils constitute a substantial part of the lower hills. Lowland vegetation comprising mainly open sclerophyll woodlands and heath while the upper slopes consist of wet sclerophyll forests, some rainforest and alpine vegetation in the highest regions. Land use: forestry, mining and agriculture (grazing).

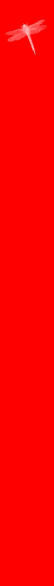


species 13 Specimens 34 Adults 34 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Hemiphlebiidae													
<i>Hemiphlebia mirabilis</i>		1											
Family Lestidae													
<i>Austrolestes analis</i>	2	2									3		
<i>Austrolestes annulosus</i>	2	1									1		
<i>Austrolestes io</i>												1	
<i>Austrolestes psyche</i>		1								1	1		
Family Aeshnidae													
<i>Austroaeschna tasmanica</i>										1			
<i>Austroaeschna unicornis</i>		1											
Family Gomphidae													
<i>Austrogomphus guerini</i>		1								1		1	
Family Synthemistidae													
<i>Syn. gomphomacromioides</i>		1								1			

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Synthemis tasmanica</i>	2	3											
Family Corduliidae													
<i>Hemicordulia tau</i>		1											
<i>Procordulia jacksoniensis</i>		1										2	
Family Libellulidae													
<i>Nannophya dalei</i>												2	



TNM Tasmanian Northern Midlands 415,445 ha

Dry subhumid cool inland lowland plain underlain by Tertiary basalts, Jurassic dolerite, Permo-Triassic sand - stones, and recent alluvium lying in the Tamar. Vegetation comprises grasslands and grassy woodlands on deep loams and alluvium and dry sclerophyll forest and woodland on Tertiary. Grasslands and woodlands have been reduced to remnants. Land use is primarily agriculture (grazing) with some forestry. Extensively cleared for agriculture.



Species 16 Specimens 61 Adults 61 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes analis</i>	2	1											
<i>Austrolestes annulosus</i>	2										1		
<i>Austrolestes psyche</i>	2												
Family Coenagrionidae													
<i>Austroagrion watsoni</i>	3												
<i>Ausrocoenagrion lyelli</i>	6												
<i>Ischnura aurora</i>	1									1	1	1	
<i>Ischnura heterosticta</i>	1												
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	1	1			1						1	1	
<i>Austroaeschna parvistigma</i>	1											1	
<i>Austroaeschna unicornis</i>									4	2			
Family Gomphidae													
<i>Austrogomphus guerini</i>	1								4		1		
Family Synthemistidae													
<i>Synthemis tasmanica</i>	3		3										

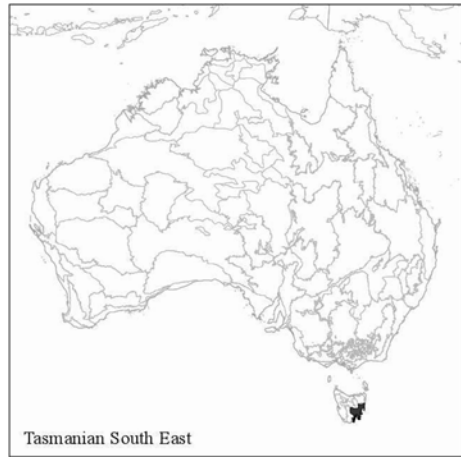
The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Corduliidae													
<i>Hemicordulia tau</i>	2									1		1	
<i>Procordulia jacksoniensis</i>	6				1								
Family Libellulidae													
<i>Austrothemis nigrescens</i>	2												
<i>Nannophya dalei</i>	1												



TSE Tasmanian South East 1,131,822 ha

Subhumid cool to subhumid warm coastal plains on a highly indented coastline, bordered inland by low mountain ranges formed from Jurassic dolerite and Permo-Triassic sediments. Soils predominantly clay to sandy loams. Vegetation is predominantly dry sclerophyll forest, with patches of wet sclerophyll forest, relict rainforest, coastal heath and dry coniferous forest. Extensive areas have been converted to improved pasture and cropland. Land is use primarily agriculture (grazing) and forestry.

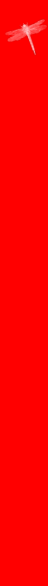


Species 23 Specimens 129 Adults 129 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes analis</i>	1	2										1	
<i>Austrolestes annulosus</i>	11	7									1	1	
<i>Austrolestes cingulatus</i>		1											
<i>Austrolestes io</i>		1							2				
<i>Austrolestes psyche</i>		8							1			1	
Family Coenagrionidae													
<i>Austroagrion watsoni</i>		1											
<i>Ausrocoenagrion lyelli</i>											1		
<i>Ischnura aurora</i>	2	2									1	1	
<i>Ischnura heterosticta</i>	3	2									1	1	
<i>Xanthagrion erythroneurum</i>		2									1		
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	4	3	2	1								2	1
<i>Austroaeschna hardyi</i>			4							1			
<i>Austroaeschna parvistigma</i>	2	3	7	1								1	1
<i>Austroaeschna tasmanica</i>	1												

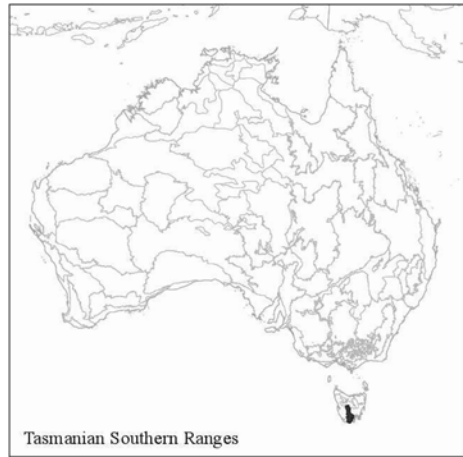
The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austroaeschna unicornis</i>		1											
<i>Hemianax papuensis</i>		1											
Family Gomphidae													
<i>Austrogomphus guerini</i>	2	6										1	1
Family Synthemistidae													
<i>Archaeosynthemis orientalis</i>	4												1
Family Corduliidae													
<i>Hemicordulia australiae</i>											1		
<i>Hemicordulia tau</i>	2	6	2										
<i>Procordulia jacksoniensis</i>	2	4									1	1	
Family Libellulidae													
<i>Austrothemis nigrescens</i>		1											
<i>Nannophya dalei</i>	1											1	



TSR **Tasmanian Southern Ranges** 757,228 ha

Humid cool mountainous tract of central southern Tasmania. Permo-Triassic sediments and Jurassic dolerite, mantled with sandy to clay loams. Heavily forested, grading from mixed forest, wet sclerophyll forest and patches of rainforest in the uplands to dry sclerophyll forest on the coastal lowlands. Land use primarily forestry and agriculture (grazing and cropping).

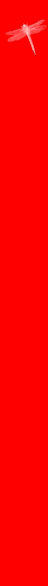


Species 19 Specimens 120 Adults 120 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes analis</i>	2	1											
<i>Austrolestes annulosus</i>			1										
<i>Austrolestes cingulatus</i>		15										3	
<i>Austrolestes io</i>			3										
<i>Austrolestes psyche</i>		12	1									1	
Family Coenagrionidae													
<i>Ausrocoenagrion lyelli</i>	1												
<i>Ischnura aurora</i>		1											
<i>Ischnura heterosticta</i>													1
Family Austropetaliidae													
<i>Archipetalia auriculata</i>												3	1
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	1												
<i>Austroaeschna hardyi</i>	5	12	1	1									
<i>Austroaeschna parvistigma</i>		7	1										
<i>Austroaeschna tasmanica</i>	1	6	1										
<i>Austroaeschna unicornis</i>			1										

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Gomphidae													
<i>Austrogomphus guerini</i>	1	2											
Family Synthemistidae													
<i>Syn. gomphomacromioides</i>	2	3											
<i>Synthemis eustalacta</i>													
<i>Synthemis tasmanica</i>	3	16	1										1
Family Corduliidae													
<i>Hemicordulia tau</i>		1									2	1	
<i>Procordulia jacksoniensis</i>			1									1	



TWE Tasmanian West

1,565,077 ha

Perhumid cold lowlands, low hills and low ranges, comprising most of coastal and inland western Tasmania. Folding and subsequent erosion has resulted in rugged dissected inland ranges dominated by Precambrian and Cambrian rocks supporting oligotrophic acid peat soils or shallow organic horizons over deep mineral profiles. From 300 metres elevation a discontinuous coastal plain slopes westward to the ocean. Vegetation is a complex mosaic of rainforest (*Nothofagus*), buttongrass (*Gymnoschoenus sphaerocephalus*) moorlands and *Eucalyptus nitida* scrub. Principal land uses are conservation, mining and forestry.

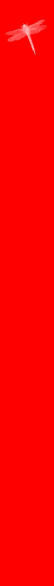


Species 21 Specimens 198 Adults 198 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes annulosus</i>	1									1			
<i>Austrolestes cingulatus</i>	1												
<i>Austrolestes psyche</i>	8	7	2							3		1	
Family Coenagrionidae													
<i>Ischnura aurora</i>		1											
<i>Ischnura heterosticta</i>	2												
<i>Xanthagrion erythroneurum</i>										1			
Family Austropetaliidae													
<i>Archipetalia auriculata</i>		1											
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	1	3											
<i>Austroaeschna hardyi</i>	10	16	7	1	2					1	1	1	
<i>Austroaeschna parvistigma</i>	1	7	6								1		
<i>Austroaeschna tasmanica</i>		1								1			
<i>Austroaeschna unicornis</i>		2		1							1	1	

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Hemianax papuensis</i>										1			
Family Gomphidae													
<i>Austrogomphus guerini</i>	2	5	1									1	
Family Synthemistidae													
<i>Archaeosynthemis orientalis</i>											1		
<i>Syn. gomphomacromioides</i>	3	25	6										
<i>Synthemis tasmanica</i>	10	23	3									2	
Family Corduliidae													
<i>Hemicordulia australiae</i>		1											
<i>Hemicordulia tau</i>	1	4	3										
<i>Procordulia jacksoniensis</i>	2	7								1		1	
Family Libellulidae													
<i>Nannophya dalei</i>	1									1			



Köppen Climate Zones for Australia

Desert - Hot (persistently dry)	315
Desert - Hot (Summer drought)	246
Desert - Hot (Winter drought)	246
Desert Warm - (persistently dry)	246
Equatorial - Rainforest (monsoonal)	246
Equatorial - Savanna	283
Grassland - Hot (persistently dry)	302
Grassland - Hot (Summer drought)	307
Grassland - Hot (Winter drought)	295
Grassland - Warm (persistently dry)	311
Grassland - Warm (Summer drought)	246
Subtropical - Distinctly dry summer	313
Subtropical - Distinctly dry winter	279
Subtropical - Moderately dry winter	275
Subtropical - No dry season	248

Temperate - Distinctly dry (and hot) Summer	309
Temperate - Distinctly dry (and mild) Summer	246
Temperate - Distinctly dry (and warm) Summer	299
Temperate - Moderately dry Winter (hot Summer)	305
Temperate - Moderately dry Winter (warm Summer)	246
Temperate - No dry season (cool Summer)	317
Temperate - No dry season (mild Summer)	291
Temperate - No dry season (warm Summer]	265
Temperate - No dry season (hot Summer)	270
Tropical - Rainforest (monsoonal)	260
Tropical - Rainforest (persistently wet)	287
Tropical - Savanna	254

The seven climate zones with the fewest number of species, ranging from 16 to one, do not warrant individual checklists and flight time charts. From the maps below it can be seen that they comprise desert areas or regions that are small or are predominantly offshore. A table is given showing the species recorded for each of these zones.

For those zones with greater numbers of records, collection dates of specimens of larvae cannot contribute to flight calendars for adults so they have been ignored. However, on the rare occasion where a larva species has been sampled without a comparable adult being recorded, that larva is included in the total number of species.





Desert - hot (winter drought)



Equatorial - rainforest (monsoonal)



Desert - hot (summer drought)



Temperate - moderately dry winter (warm summer)



Grassland - warm (summer drought)



Desert - warm (persistently dry)



Temperate - distinctly dry (and mild) summer



	A	B	C	D	E	F	G
Family Synlestidae							
<i>Synlestes weyersii</i>				1			
Family Lestidae							
<i>Austrolestes aridus</i>	4		4		1		
<i>Austrolestes io</i>			1				
Family Argiolestidae							
<i>Austroargiolestes icteromelas</i>				1			
Family Isostictidae							
<i>Oristicta filicicola</i>		2					
<i>Rhadinosticta simplex</i>				1			
Family Coenagrionidae							
<i>Argiocnemis rubescens</i>		8					
<i>Ischnura aurora</i>	2				3		
<i>Ischnura heterosticta</i>	1	1		1			
<i>Pseudagrion aureofrons</i>	1						
<i>Pseudagrion ignifer</i>		3					
<i>Pseudagrion microcephalum</i>	1						
<i>Teinobasis rufithorax</i>		1					
<i>Xanthagrion erythroneurum</i>	5		12		2		
Family Aeshnidae							
<i>Adversaeschna brevistyla</i>				1		1	1
<i>Austroaeschna obscura</i>				1			
<i>Austroaeschna unicornis</i>					1		
<i>Dendroaeschna conspersa</i>				1			
<i>Hemianax papuensis</i>	7		16		4	2	
Family Gomphidae							
<i>Austroepigomphus gordonii</i>			2				
<i>Austrogomphus prasinus</i>		3					
Family Synthemistidae							
<i>Choristhemis flavoterminalata</i>				3			
<i>Parasynthemis regina</i>				3			
Family Corduliidae							
<i>Hemicordulia australiae</i>				1			
<i>Hemicordulia tau</i>	5		6		2	3	
Family Libellulidae							
<i>Diplacodes bipunctata</i>	12		26		2	3	
<i>Diplacodes haematodes</i>	13	1	3		2		
<i>Macrodiplax cora</i>	1						

	A	B	C	D	E	F	G
<i>Nannodiplax rubra</i>		1					
<i>Nannophlebia eludens</i>		1					
<i>Orthetrum caledonicum</i>	9		7		4	1	
<i>Orthetrum serapia</i>		4					
<i>Orthetrum villosovittatum</i>		1					
<i>Pantala flavescens</i>	3		4				
<i>Tholymis tillarga</i>	1						
<i>Tramea loewii</i>	1		7				
<i>Tramea stenoloba</i>	1		1				
<i>Zyxomma petiolatum</i>		1					
Species	16	12	12	11	9	5	1
Specimens	67	27	89	15	21	10	1

- A Desert - Hot (Winter drought)
- B Equatorial - Rainforest (monsoonal)
- C Desert - Hot (Summer drought)
- D Temperate - Moderately dry Winter (warm Summer)
- E Desert - Warm (persistently dry)
- F Grassland - Warm (Summer drought)
- G Temperate - Distinctly dry (and mild) Summer



Subtropical - No dry season



Subtropical - no dry season

Species 189 Specimens 10251 Adults 9979 Larvae 272

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synlestidae													
<i>Chorismagrion risi</i>		1	4	3	4		2			2	7	1	2
<i>Episynlestes albicauda</i>	6	8	13	24	15	6	1	2	1	9	1	21	5
<i>Episynlestes cristatus</i>	10	3	5	9							1		1
<i>Episynlestes intermedius</i>	1									1	4	1	1
<i>Synlestes selysi</i>	10	2	11	5	18	2				3	1	11	2
<i>Synlestes tropicus</i>	1	5	8	1	9		1			3	5	11	1
<i>Synlestes weyersii</i>		2		3					1				1
Family Lestidae													
<i>Austrolestes analis</i>	1	2											
<i>Austrolestes aridus</i>				2		1				1	1	3	2
<i>Austrolestes cingulatus</i>								1			2		
<i>Austrolestes io</i>											1		
<i>Austrolestes leda</i>	27	14	29	34	37	4	7	10	35	20	35	51	6
<i>Austrolestes minjerriba</i>	58	3	17	17	14			2	39	10	7	40	2

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austrolestes psyche</i>	12	8		7	2	1			1	16	3	5	1
<i>Indolestes tenuissimus</i>												1	
<i>Lestes concinnus</i>			1	2						2			
Family Argiolestidae													
<i>Austroargiolestes amabilis</i>	8	6								8	13	13	
<i>Austroargiolestes aureus</i>	1	2	4	1				1		6	9	25	4
<i>Austroargiolestes chrysoides</i>	4	2	12			1			28	12	4	15	
<i>Austroargiolestes elke</i>	1									5	6		1
<i>Austroargiolestes icteromelas</i>	61	32	56	55	28	1	6	3	25	64	72	73	2
<i>Griseargiolestes albescens</i>	24	7	4	5	8	1		2	34	22	4	20	2
<i>Griseargiolestes eboracus</i>	3												
<i>Griseargiolestes fontanus</i>	2	1								1	1	6	
<i>Griseargiolestes metallicus</i>			1								1	4	
<i>Podopteryx selysi</i>	2		2	3							1	1	
Family Lestoideidae													
<i>Diphlebia coerulescens</i>	29	5	29	3	4					13	20	27	
<i>Diphlebia euphoeoides</i>	17	2	9	28				2	4	3	15	11	
<i>Diphlebia hybridoides</i>		1								1	10	22	
<i>Diphlebia lestoides</i>	6								1	3	11	9	1
<i>Diphlebia nymphoides</i>	2								6	1	4	3	
<i>Lestoidea barbarae</i>											6	2	
<i>Lestoidea brevicauda</i>											2		
<i>Lestoidea conjuncta</i>	3	2	4	3						2	11	6	1
<i>Lestoidea lewisiana</i>											2	8	
Family Isostictidae													
<i>Labidiosticta vallisii</i>	5	3	3	11	10					4	2	1	
<i>Neosticta canescens</i>	10									5	13	3	
<i>Neosticta fraseri</i>				3						1	6	8	
<i>Neosticta silvarum</i>												2	
<i>Oristicta filicicola</i>		2	1									1	
<i>Rhadinosticta banksi</i>	2		3	1									
<i>Rhadinosticta simplex</i>	18	7	4	2	8				3	1	2	10	
Family Platycnemidae													
<i>Nososticta coelestina</i>			8							1			
<i>Nososticta solida</i>	40	10	9	17	1	1		1	5	16	32	49	
<i>Nososticta solitaria</i>	11	2	25	6	1				3	3	12	16	2
Family Coenagrionidae													
<i>Aciagrion fragile</i>	7			1			1		3	3	7		



The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Agriocnemis argentea</i>	2	1	1	4	1					2	8	8	
<i>Agriocnemis pygmaea</i>	29	20	6	31	1				17	12	18	18	1
<i>Agriocnemis rubricauda</i>	1								1	1	2		
<i>Archibasis mimetes</i>												1	
<i>Argiocnemis rubescens</i>	18	10	17	18	2	1	1		20	13	14	26	2
<i>Austroagrion exclamationis</i>	12		3	1		1				1	1	12	
<i>Austroagrion watsoni</i>	13	7	10	5	7	2			43	44	45	21	2
<i>Austrocnemis splendida</i>	8	10	2	2	7				5	19	9	13	
<i>Ausrocoenagrion lyelli</i>													1
<i>Caliagrion billinghursti</i>											1		
<i>Ceriagrion aeruginosum</i>	21	6	12	6	1	1				6	12	14	
<i>Ischnura aurora</i>	22	10	13	7	6	4		1	30	14	34	34	1
<i>Ischnura heterosticta</i>	54	24	30	30	26	8		3	31	31	59	39	4
<i>Ischnura pruinescens</i>	10		1	1		1			7	1			
<i>Pseudagrion aureofrons</i>	11	8	3	8	2	2			1	7	7	23	
<i>Pseudagrion cingillum</i>	1			1		2			1		2	2	
<i>Pseudagrion ignifer</i>	22	12	32	43	9	1		1	3	13	20	40	
<i>Pseudagrion microcephalum</i>	14	17	17	19	6	5		3	7	11	21	37	4
<i>Teinobasis rufithorax</i>			1										
<i>Xanthagrion erythroneurum</i>	2	4	4	4	1	1		1	1	3	21	7	2
Family Aeshnidae													
<i>Acanthaeschna victoria</i>										7	2		
<i>Adversaeschna brevistyla</i>	23	13	7	6	3	2		3	8	4	14	16	3
<i>Anax gibbosulus</i>		4	1	1					1				
<i>Anax guttatus</i>	1												
<i>Antipodophlebia asthenes</i>	5										2	4	
<i>Austroaeschna christine</i>	3		1	1							2		
<i>Austroaeschna cooloola</i>	3	1								1	2	4	2
<i>Austroaeschna eungella</i>	2			1						1	1	3	
<i>Austroaeschna pinheyi</i>	4	2	5		4	1				1			
<i>Austroaeschna pulchra</i>	6	1	7	2	2					1		4	1
<i>Austroaeschna sigma</i>	8	3	5	4	2				3		1	4	
<i>Austroaeschna subapicalis</i>		1											
<i>Austroaeschna unicornis</i>	2			1									
<i>Austrogynacantha heterogena</i>	13	10	6	13	1				1		4	8	1
<i>Austrophlebia costalis</i>	6	1						1		1	3	9	2
<i>Austrophlebia subcostalis</i>	1							1			2	1	
<i>Dendroaeschna conspersa</i>			3		2								

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Dromaeschna forcipata</i>	1	6	4								5	3	
<i>Dromaeschna weiskei</i>	8		7	5	2						3	4	
<i>Gynacantha dobsoni</i>		1							1			2	
<i>Gynacantha mocsaryi</i>												1	
<i>Gynacantha rosenbergi</i>		1								1			3
<i>Hemianax papuensis</i>	10	12	22	21	9	3	3	2	5	7	3	17	5
<i>Notoaeschna geminata</i>									1	1			1
<i>Spinaeschna watsoni</i>									2				
<i>Telephlebia cyclops</i>	9	4	4	1						1	3	11	
<i>Telephlebia godeffroyi</i>													
<i>Telephlebia tillyardi</i>		3									1		
<i>Telephlebia tryoni</i>	4	4									6	9	6
Family Petaluridae													
<i>Petalura gigantea</i>	7										2	6	2
<i>Petalura ingentissima</i>	4	1										1	1
<i>Petalura litorea</i>	16	1	1							2	1	10	2
Family Gomphidae													
<i>Antipodogomphus acolythus</i>	1		4	1								3	
<i>Antipodogomphus proselythus</i>	3	1									1	4	1
<i>Austroepigomphus praeruptus</i>	5	1	3	3				1	1	7	1	8	1
<i>Austroepigomphus turneri</i>		1								3	3	1	
<i>Austrogomphus amphiclitus</i>	47	15	14	27	8				3	11	16	34	4
<i>Austrogomphus australis</i>	1										1		
<i>Austrogomphus bifurcatus</i>	1	8	1	2									
<i>Austrogomphus cornutus</i>	7		4	2						1	6	5	1
<i>Austrogomphus divaricatus</i>	2	3		2							1	2	
<i>Austrogomphus doddi</i>		1											
<i>Austrogomphus guerini</i>	4												
<i>Austrogomphus ochraceus</i>	14	2						1	12	13	21	40	1
<i>Austrogomphus prasinus</i>	3		5	1						1	1		
<i>Hemigomphus atratus</i>										1			
<i>Hemigomphus comitatus</i>										1	3	1	
<i>Hemigomphus cooloola</i>	5	1									1	6	
<i>Hemigomphus gouldii</i>	4							1		4	6	3	
<i>Hemigomphus heteroclytus</i>	12	2	4	3					3	7	15	15	1
<i>Hemigomphus theischingeri</i>	1		1								1	1	
<i>Ictinogomphus australis</i>	33	13	10	7	2						2	16	3
<i>Odontogomphus donnellyi</i>											2		



The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Zephyrogomphus longipositor</i>												2	
Family Sythemistidae													
<i>Archaeosynthemis orientalis</i>	1												
<i>Choristhemis flavoterminalata</i>	44	12	15	7	4		1			7	32	56	1
<i>Eusynthemis aurolineata</i>			2	1						1	3	4	
<i>Eusynthemis barbarae</i>												5	
<i>Eusynthemis cooloola</i>												1	
<i>Eusynthemis netta</i>												3	1
<i>Eusynthemis nigra</i>	55	4	9	5				2		5	36	46	18
<i>Eusynthemis rentziana</i>	1								1			1	1
<i>Eusynthemis tenera</i>										1		1	
<i>Parasynthemis regina</i>	2	5		1			1			3	6	5	1
<i>Synthemis eustalacta</i>	1												
<i>Tonyosynthemis claviculata</i>		3	1										
Family Macromiidae													
<i>Macromia tillyardi</i>		1											
Family Corduliidae													
<i>Hemicordulia australiae</i>	59	22	18	30	12	2		1	23	29	46	43	4
<i>Hemicordulia continentalis</i>	25	15	7	2	2				2	3	8	21	
<i>Hemicordulia intermedia</i>			5	2	1				1		2		
<i>Hemicordulia superba</i>	2	1	1	3							2		3
<i>Hemicordulia tau</i>	4	2		5	1	1			2	7	5	15	3
<i>Procordulia jacksoniensis</i>											1	1	
Family Libellulidae													
<i>Aethriamanta circumsignata</i>	1	1							2		1	1	
<i>Aethriamanta nymphaea</i>	3	3	5		1					1	1	3	
<i>Agrionoptera i.allogenes</i>	4	13	4	2	7					1		1	
<i>Agrionoptera l.biserialis</i>		1	3						1		1	1	
<i>Austrothemis nigrescens</i>	9	6			1				7	12	2	16	2
<i>Brachydiplax denticauda</i>	15	15	13	1	2					2	6	10	
<i>Crocothemis nigrifrons</i>	16	20	16	26	7	3	1		10	7	14	9	4
<i>Diplacodes bipunctata</i>	49	45	80	83	40	10	3	16	46	20	39	38	8
<i>Diplacodes haematodes</i>	44	15	44	58	27	5	2	10	14	26	25	40	2
<i>Diplacodes melanopsis</i>	9	16	8	2	1			1	1	26	12	11	7
<i>Diplacodes trivialis</i>	2	8	9	4	5				4	1	1	1	
<i>Hydrobasileus brevistylus</i>	11	8	6	1			2				2	10	5
<i>Lathrecista asiatica festa</i>		1	6			1						1	
<i>Macrodiplax cora</i>	4	5	3	3	2	1			3			2	

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Nannodiplax rubra</i>	36	6	21	6	1			2	29	1	9	33	1
<i>Nannophlebia eludens</i>	3	2	18	5	1					1	3	1	
<i>Nannophlebia risi</i>	22	7	12	17	3				1	9	5	16	2
<i>Nannophya australis</i>	48	4	5	4	6			1	35	22	5	49	
<i>Nannophya dalei</i>	1												
<i>Neurothemis stigmatizans</i>		2	4	8	3		2	1	5	3	7	3	
<i>Orthetrum boumiera</i>	46	10	31	6	1					7	5	36	1
<i>Orthetrum caledonicum</i>	50	42	32	54	15	2		2	14	16	35	45	3
<i>Orthetrum migratum</i>	1		1								1	1	
<i>Orthetrum sabina</i>	29	21	27	17	2	1		1	4	7	10	12	
<i>Orthetrum serapia</i>		1						1					
<i>Orthetrum villosovittatum</i>	58	50	49	53	20	2	1	2	17	17	40	53	4
<i>Pantala flavescens</i>	5	6	16	7	1			1	3		1	1	4
<i>Potamarcha congener</i>					1								
<i>Rhodothemis lieftincki</i>	15	12	9	4				1		3	1	9	
<i>Rhyothemis braganza</i>	3						1					2	
<i>Rhyothemis graphiptera</i>	45	16	18	8	4			2	2	7	22	27	5
<i>Rhyothemis phyllis</i>	41	21	5		1				1	2	14	34	3
<i>Rhyothemis princeps</i>	1						1	1					
<i>Rhyothemis resplendens</i>												3	
<i>Tholymis tillarga</i>			1		1						1		1
<i>Tamea eurybia</i>	44	3	1	2				1			5	32	1
<i>Tamea loewii</i>	43	22	33	17	7			1	20	22	14	17	5
<i>Tamea stenoloba</i>	6			1									
<i>Urothemis aliena</i>	3			1							3	2	1
<i>Zyxomma elgneri</i>	27	10	6	1						1	1	5	
Genera incertae sedis													
<i>Archaeophya magnifica</i>											1	5	
<i>Austrocordulia refracta</i>	8	2								2	3	3	3
<i>Austrophya mystica</i>		1								1	1	1	
<i>Cordulephya bidens</i>			2		1								
<i>Cordulephya pygmaea</i>	1		3	8	11								6
<i>Lathrocordulia garrisoni</i>												2	
<i>Micromidia atrifrons</i>	4	8	1	1							1	1	1
<i>Micromidia convergens</i>	6	2										2	
<i>Pseudocordulia circularis</i>											1		
<i>Pseudocordulia elliptica</i>	5									1	4	2	



Tropical – Savanna



Tropical - savanna

Species 155 Specimens 4828 Adults 4828 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synlestidae													
<i>Chorismagrion risi</i>									1				
<i>Episynlestes albicauda</i>	1												
<i>Synlestes selysi</i>			1		3								
<i>Synlestes tropicus</i>					1						1		
Family Lestidae													
<i>Austrolestes insularis</i>	10	2	4	4	2	2	8			2	6	2	
<i>Austrolestes leda</i>	3												
<i>Indolestes alleni</i>	3						1			1	2	2	
<i>Indolestes obiri</i>			1		6	5					4		
<i>Indolestes tenuissimus</i>	2		1				1				1	6	
<i>Lestes concinnus</i>	4	8	5	7	13	1	7	1	1	7	14	8	
Family Argiolestidae													
<i>Austroargiolestes aureus</i>											6	1	

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austroargiolestes icteromelas</i>	1									1			
Family Lestoideidae													
<i>Diphlebia euphroeoides</i>	3	3	3	3	4			1	1	1	8	13	1
<i>Lestoidea conjuncta</i>											2		
<i>Lestoidea lewisiana</i>												1	
Family Isostictidae													
<i>Austrosticta fieldi</i>		1	2		3	2					3		
<i>Austrosticta frater</i>		4	14	1									
<i>Austrosticta soror</i>		1	1										
<i>Eurysticta coomalie</i>	1	4	2	1							2		
<i>Eurysticta reevesi</i>			4										
<i>Labidiosticta vallisi</i>										1			
<i>Lithosticta macra</i>			3	1	3	1							
<i>Neosticta fraseri</i>												1	
<i>Oristicta filicicola</i>		1	2			1				2	4	4	
<i>Oristicta rosendaleorum</i>			6										
<i>Rhadinosticta banksi</i>	1	13	23	1	1								
<i>Rhadinosticta simplex</i>					1								
Family Platycnemidae													
<i>Nososticta baroalba</i>	1	7	11	2	11		9		1	5	13	7	
<i>Nososticta coelestina</i>	1		8	7	10		2	1	3	3	5	9	
<i>Nososticta fraterna</i>	4	2	2	1	22	1	13	7	4	2	34	12	2
<i>Nososticta kalumburu</i>		1				1	3	21					
<i>Nososticta koolpinyah</i>	1				2							1	10
<i>Nososticta koongarra</i>			4		8	1		1			17		
<i>Nososticta liveringa</i>							2	72					
<i>Nososticta mouldsi</i>						7						1	
<i>Nososticta solida</i>	3	1	8	1					4	8	7	1	
<i>Nososticta solitaria</i>		2	12	6	1		3	1	2	8	31	15	
<i>Nososticta taracumbi</i>										1			
Family Coenagrionidae													
<i>Aciagrion fragile</i>	9	1	2	8	4	2	1	2	1		17	2	3
<i>Agriocnemis argentea</i>				2			1	1			1		
<i>Agriocnemis dobsoni</i>			1										
<i>Agriocnemis pygmaea</i>		1	3	9	9	8	7	8	3	2	17	1	
<i>Agriocnemis rubricauda</i>	1		5		1		7	1	4	2	2	2	
<i>Archibasis mimetes</i>	1					1		1			1		
<i>Argiocnemis rubescens</i>			6	2	14	5	7	9	2	2	8	5	



The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austroagrion exclamationis</i>	2	6	8		14	7	12	14	2	6	37	10	
<i>Austroagrion watsoni</i>	3						2	8			1	2	
<i>Austrocnemis maccullochi</i>		2			14	9	1	9		11	11	9	
<i>Austrocnemis obscura</i>							1	1					1
<i>Austrocnemis splendida</i>							2						
<i>Ceriagrion aeruginosum</i>	9		1	11	4		9	5	3	6	17	11	1
<i>Ischnura aurora</i>	1	2	7	5	16	8	15	19	8	20	32	6	1
<i>Ischnura heterosticta</i>	1	2	9	11	25	20	5	23	3	12	56	16	1
<i>Ischnura pruinescens</i>	2		3	11	11	2	9	10	4	2	10	5	7
<i>Pseudagrion aureofrons</i>							1		1				
<i>Pseudagrion cingillum</i>		9			5	1					8	5	
<i>Pseudagrion ignifer</i>	1		7	2	7	1	2	3	2	4	1	14	
<i>Pseudagrion jedda</i>	1	11			51		19	1		1	12	4	1
<i>Pseudagrion lucifer</i>			3		7	1	10	7	1		1		
<i>Pseudagrion microcephalum</i>	1	3	16		38	10	16	8	1	5	24	17	
<i>Xanthagrion erythroneurum</i>	1		1								1		
Family Aeshnidae													
<i>Anaciaeschna jaspidea</i>				1									
<i>Anax georgius</i>								2					
<i>Anax gibbosulus</i>	1	2	1	2	2				1	3	4	1	
<i>Anax guttatus</i>	9			1	1			2			1	5	
<i>Austrogyacantha heterogena</i>	2	8	2	5	7	1					1	1	1
<i>Dromaeschna forcipata</i>	3		1								5	4	
<i>Gynacantha dobsoni</i>			2		3		2	4	1	4	6	1	
<i>Gynacantha kirbyi</i>			1			3				2			
<i>Gynacantha mocsaryi</i>	1					1						1	1
<i>Gynacantha nourlangie</i>			2		18	15	14	16	2	4	6		1
<i>Gynacantha rosenbergi</i>								1			4		
<i>Hemianax papuensis</i>	4	10	11	2	6	3	5	2		1	3	4	4
<i>Spinaeschna watsoni</i>											1		
Family Petaluridae													
<i>Petalura ingentissima</i>	3	1											
<i>Petalura pulcherrima</i>												1	
Family Gomphidae													
<i>Antipodogomphus acolythus</i>		1											
<i>Antipodogomphus dentosus</i>		4											
<i>Antipodogomphus edentulus</i>												3	
<i>Antipodogomphus neophytus</i>		4									1	1	

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Antipodogomphus proselythus</i>	1										2	3	2
<i>Austroepigomphus praeruptus</i>	1												
<i>Austroepigomphus turneri</i>	10	1		1					4	2	2	4	
<i>Austrogomphus amphiclitus</i>			3	2									
<i>Austrogomphus arbustorum</i>											1	2	2
<i>Austrogomphus divaricatus</i>											2	1	
<i>Austrogomphus mjobergi</i>	4	19		1							1		
<i>Austrogomphus prasinus</i>	3	1	2	11							1	9	7
<i>Hemigomphus comitatus</i>	6	1									3	14	
<i>Hemigomphus magela</i>				2							9		
<i>Hemigomphus theischingeri</i>			1										
<i>Ictinogomphus australis</i>	1	2		3	4			1	1	2	15	7	5
Family Synthemistidae													
<i>Choristhemis flavoterminalata</i>	7	3	4	1							5	16	
<i>Eusynthemis nigra</i>	1										15		
<i>Tonyosynthemis claviculata</i>			1								2	5	
Family Macromiidae													
<i>Macromia tillyardi</i>	1										2	2	
<i>Macromia viridescens</i>											1		
Family Corduliidae													
<i>Hemicordulia australiae</i>	2												
<i>Hemicordulia continentalis</i>			1										
<i>Hemicordulia intermedia</i>	2	4	8	2	1	1	2	1	1		5	10	
<i>Hemicordulia kalliste</i>	1												
<i>Hemicordulia tau</i>					1						1	1	
<i>Pentathemis membranulata</i>	1	2									11	8	
Family Libellulidae													
<i>Aethriamanta circumsignata</i>		1	3	1	1						1	1	
<i>Aethriamanta nymphaea</i>						1		3				8	
<i>Agrionoptera i.allogenes</i>	2		2		5		3	1	2	1	3	3	
<i>Agrionoptera l.biserialis</i>			2						1			2	
<i>Brachydiplax denticauda</i>	2	2	3	6	5		9	3	1	3	19	7	1
<i>Camacina othello</i>	1	1									1		1
<i>Crocothemis nigrifrons</i>	1		1	2	6	5		9	2	4	7	11	
<i>Diplacodes bipunctata</i>	25	11	28	18	27	8	5	10	1	4	2	4	1
<i>Diplacodes haematodes</i>	9	7	27	21	26	13	19	12	13	17	15	12	
<i>Diplacodes nebulosa</i>	4	3	5	3	3	2	7	5	1	1	7	4	
<i>Diplacodes trivialis</i>	13		9	8	14	10	9	10	4	17	12	12	1



The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Hydrobasileus brevistylus</i>	3		5	3	1				4	3	9	3	
<i>Lathrecista asiatica festa</i>	6	1	7	3	3	5		2	1	8	7	7	1
<i>Macrodiplax cora</i>		1	7	1	7		1	8	2	3	10	6	
<i>Nannodiplax rubra</i>	9	6	9	6	16	19	31	15	16	7	22	13	1
<i>Nannophlebia eludens</i>	3		6	12	10	1	2	1		1	9	3	
<i>Nannophlebia injibandi</i>		1		8	5		1	1		1			1
<i>Nannophlebia mudginberri</i>			4		7	1	2	1		2	3		
<i>Nannophlebia risi</i>			1			1		1			3		
<i>Nannophya australis</i>		1			1						1		
<i>Nannophya paulsoni</i>	1												
<i>Neurothemis oligoneura</i>												1	
<i>Neurothemis stigmatizans</i>	14	9	19	17	26	12	22	17	15	12	22	23	3
<i>Notolibellula bicolor</i>		1		2	1	2							
<i>Orthetrum balteatum</i>	1										1	4	
<i>Orthetrum boumiera</i>												8	
<i>Orthetrum caledonicum</i>	4	8	6	7	10	2	8	2	1	13	6	6	1
<i>Orthetrum migratum</i>	6	6	8	1	5	3	5	6	4	2	7	7	
<i>Orthetrum sabina</i>	4	1	9	3	7	6	5	14	4	4	10	2	2
<i>Orthetrum serapia</i>			2	1	1	1	1			4	1		
<i>Orthetrum villosovittatum</i>	7	1	8		6		1		2	6	5	4	
<i>Pantala flavescens</i>	9	6	12	7	8	7	5	3	1	3	2	3	4
<i>Potamarcha congener</i>	2	3	5		2	1	6		2	2	4	1	
<i>Rhodothemis lieftincki</i>	6		3	4	3		5		3	2	11	9	
<i>Rhyothemis braganza</i>	5	1	5	1	1			2	2	2	10	13	1
<i>Rhyothemis graphiptera</i>	6	10	18	9	9	7	8	16	9	11	7	12	
<i>Rhyothemis phyllis</i>	3		1	3	1			7		7	5	6	
<i>Rhyothemis princeps</i>	8	1	3	6	1						3	15	1
<i>Rhyothemis resplendens</i>	1		1								3	2	
<i>Tetrathemis i.cladophila</i>	1		2								1	1	
<i>Tholymis tillarga</i>	2	7	7	3	9	2	2	3	1	1	13	7	
<i>Tramea loewii</i>	5	5	12	9	10	6	8	9	2	7	13	13	
<i>Tramea stenoloba</i>	1			2	1	1				1		2	
<i>Urothemis aliena</i>	1				3			1		1	4	4	
<i>Zyxomma elgneri</i>	1	4		1	8			1	1	2	5	3	
<i>Zyxomma petiolatum</i>					1					1	1		
Genera incertae sedis													
<i>Austrocordulia refracta</i>											1	2	
<i>Austrocordulia territoria</i>					9								

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austrophya mystica</i>		1										1	
<i>Cordulephya bidens</i>				1									
<i>Micromidia-atrifrons</i>	2	9				2							



Tropical - Rainforest (monsoonal)



Tropical - rainforest (monsoonal)

Species 127 Specimens 2341 Adults 2341 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synlestidae													
<i>Chorismagrion risi</i>	2			6						5	3		
<i>Synlestes selysi</i>			8	1									
<i>Synlestes tropicus</i>	3			5						3	2		1
Family Lestidae													
<i>Austrolestes insularis</i>										2			
<i>Indolestes alleni</i>	5			1			1	1		3			
<i>Indolestes tenuissimus</i>	5			2					5	2	1	2	
<i>Lestes concinnus</i>	1			2		1		3			1		
Family Argiolestidae													
<i>Austroargiolestes aureus</i>	10	2	3						3	7	7	5	
<i>Austroargiolestes icteromelas</i>			6										
<i>Podopteryx selysi</i>	2	1	1	1						2	1	2	
Family Lestoideidae													

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Diphlebia euphoeoides</i>	12	1	45	17	4			3	26	14	12	10	1
<i>Diphlebia hybridoides</i>	5	1									2	7	
<i>Lestoidea brevicauda</i>	1		1								1		
<i>Lestoidea conjuncta</i>	14	3	5	6	1			3	8	1	5	1	
<i>Lestoidea lewisiana</i>												3	
Family Isostictidae													
<i>Neosticta fraseri</i>	1		1		1						1		
<i>Oristicta filicicola</i>	8		5	11				1	1	3	2	1	
<i>Rhadinosticta banksi</i>			2										
<i>Rhadinosticta simplex</i>	1									2			
Family Platycnemidae													
<i>Nososticta coelestina</i>	4	2	5	10	2			1	8	1	2		
<i>Nososticta solida</i>	3		1		1			6		2	3		
<i>Nososticta solitaria</i>	10	2	13	10			1	3	6	12	4	16	2
Family Coenagrionidae													
<i>Aciagrion fragile</i>	2			4			1	4		3		2	
<i>Agriocnemis argentea</i>	3			2		2				5	2	3	
<i>Agriocnemis dobsoni</i>										1	1		
<i>Agriocnemis pygmaea</i>	1		1	2	1					3	1		
<i>Agriocnemis rubricauda</i>										3	1		
<i>Archibasis mimetes</i>	2			1						1			1
<i>Argiocnemis rubescens</i>	1			3	5	1	1	3	4	10	2	4	6
<i>Austroagrion exclamationis</i>												2	
<i>Austroagrion watsoni</i>									2			2	
<i>Ceriagrion aeruginosum</i>	4		6	1	3		2			14	7	5	4
<i>Ischnura aurora</i>	1		11		1			3	4				
<i>Ischnura heterosticta</i>	2		3						10		1		
<i>Ischnura pruinescens</i>	9		2		1		1		8	2			1
<i>Pseudagrion cingillum</i>	1								1				
<i>Pseudagrion ignifer</i>	9	1	7	6	6			2	22	11	13		6
<i>Pseudagrion jedda</i>	1												
<i>Pseudagrion lucifer</i>		1											
<i>Pseudagrion microcephalum</i>	3	1	5	10	1			2	11	8	8	9	2
<i>Teinobasis rufithorax</i>				1						1			
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	1							1				1	
<i>Anax gibbosulus</i>	1							1	1				
<i>Anax guttatus</i>	9												1



The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austroaeschna speciosa</i>													1
<i>Austrogynacantha heterogena</i>	4	4		1									
<i>Dromaeschna forcipata</i>	14		2	3						2	5	5	2
<i>Dromaeschna weiskei</i>	2		1	6						1	1	1	
<i>Gynacantha dobsoni</i>	5		2		1			7	1	5	3	1	2
<i>Gynacantha kirbyi</i>				1									
<i>Gynacantha mocsaryi</i>	8		2						2		1	2	
<i>Gynacantha nourlangie</i>					2								
<i>Gynacantha rosenbergi</i>	5	1	2		2				1	8	6	6	2
<i>Hemianax papuensis</i>	3	1		2				2					1
<i>Telephlebia tillyardi</i>	1		1							3		1	
Family Petaluridae													
<i>Petalura ingentissima</i>	9												
<i>Petalura pulcherrima</i>		4											1
Family Gomphidae													
<i>Antipodogomphus acolythus</i>	1												
<i>Antipodogomphus neophytus</i>	1												
<i>Antipodogomphus proselythus</i>	6	3									3		
<i>Austroepigomphus praeruptus</i>				1						1			
<i>Austroepigomphus turneri</i>		2									2		
<i>Austrogomphus amphi-clitus</i>	1												
<i>Austrogomphus arbustorum</i>	1										3		3
<i>Austrogomphus bifurcatus</i>	2			2							2		
<i>Austrogomphus cornutus</i>	1												
<i>Austrogomphus divaricatus</i>		1		1						1	2		
<i>Austrogomphus doddi</i>		2											1
<i>Austrogomphus prasinus</i>	24	4	8	10						3	11	3	
<i>Hemigomphus comitatus</i>	2	3								1	1	2	
<i>Hemigomphus heteroclytus</i>			1								1		
<i>Hemigomphus theischingeri</i>			1								3	1	
<i>Ictinogomphus australis</i>	6	2									1	4	2
Family Synthemiidae													
<i>Choristhemis flavoterminata</i>	12		4				1			1	3	8	
<i>Choristhemis olivei</i>												1	
<i>Eusynthemis nigra</i>	4	2	1	1						3	5	8	
<i>Tonyosynthemis claviculata</i>	1												
Family Macromiidae													
<i>Macromia tillyardi</i>	7					1					2		

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Corduliidae													
<i>Hemicordulia australiae</i>			1					2		1	1	2	
<i>Hemicordulia continentalis</i>	4	2	1							1			
<i>Hemicordulia intermedia</i>	5	2						1			4	1	
<i>Hemicordulia tau</i>	1											1	
Family Libellulidae													
<i>Aethriamanta circumsignata</i>												1	
<i>Aethriamanta nymphaea</i>			2							1			
<i>Agrionoptera i.allogenes</i>	2	1	4	7	3					4		5	
<i>Agrionoptera l.biserialis</i>	14		7	2	2		1	1	6	3	3		
<i>Brachydiplax denticauda</i>	3	1	3	2						5	5	2	1
<i>Brachydiplax duivenbodei</i>	1		1	1						1		2	
<i>Camacinia othello</i>	4												
<i>Crocothemis nigrifrons</i>	4					1				5	2		1
<i>Diplacodes bipunctata</i>	8		10	5		2	1	1	3		2	2	
<i>Diplacodes haematodes</i>	10		14	11	1	1	1	1	15	4	4	4	1
<i>Diplacodes nebulosa</i>			1			1							
<i>Diplacodes trivialis</i>	7	1	16	6	6	3	4	3	4	1	2		
<i>Hydrobasileus brevistylus</i>	3								1	3	1	2	
<i>Lathrecista asiatica festa</i>	13		3	4	1			2	1	2	1	5	1
<i>Macrodiplax cora</i>	1								1	1	2	1	
<i>Nannodiplax rubra</i>	7			9	4	1	1	3	7	4	6	5	2
<i>Nannophlebia eludens</i>	8	1	10	9	6	2				4	4	7	2
<i>Nannophlebia risi</i>	1		5	2					4		2	1	
<i>Neurothemis stigmatizans</i>	16	2	17	17	14	22	4	22	9	13	2	17	
<i>Notolibellula bicolor</i>		3											1
<i>Orthetrum caledonicum</i>	2		2	10	2			1	3			2	
<i>Orthetrum migratum</i>	1												
<i>Orthetrum sabina</i>	3		5	6	3	4	2	9	11	5	1	1	
<i>Orthetrum serapia</i>	6		3	3				3				1	
<i>Orthetrum villosovittatum</i>	8	4	8	4	4	2	1	4	8	11	6	6	1
<i>Pantala flavescens</i>	9		6	17	1	5		6			1	1	
<i>Rhodothemis lieftincki</i>	1			2	1	1			2	5	1	2	
<i>Rhyothemis braganza</i>	4								1		1	6	
<i>Rhyothemis graphiptera</i>	3		2			1			2	2	1	1	
<i>Rhyothemis phyllis</i>	19		3	2	2				2	4	7	3	1
<i>Rhyothemis princeps</i>	4		14						1	3		2	1
<i>Rhyothemis resplendens</i>	16	1									4	6	1



The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Tetrathemis i.cladophila</i>	4		3	1	4			1		5	1	2	
<i>Tholymis tillarga</i>	5	1	9	2		2		2	1	2	1	1	2
<i>Tramea loewii</i>	4	1	2	7	1	1		7	5			4	1
<i>Tramea propinqua</i>	1												
<i>Zyxomma elgneri</i>			1									1	
<i>Zyxomma petiolatum</i>	5		3	1								2	
Genera incertae sedis													
<i>Archaeophya magnifica</i>	2										2	2	
<i>Austrocordulia refracta</i>		1								2	8	4	
<i>Austrophya mystica</i>	2										1	1	
<i>Cordulephya bidens</i>				2	2								
<i>Micromidia atrifrons</i>	2											2	
<i>Pseudocordulia circularis</i>	1											1	
<i>Pseudocordulia elliptica</i>	1												

Temperate - No dry season (warm Summer)



Temperate - no dry season (warm summer)

Species 125 Specimens 16,214 Adults 14,429 Larvae 1,985

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Hemiphlebidae													
<i>Hemiphlebia mirabilis</i>	20	1									7	48	41
Family Synlestidae													
<i>Episynlestes albicauda</i>	12		5	6	3	1	1	1			2	7	1
<i>Synlestes selysi</i>	18	7	12	22	13	6				1	4	8	1
<i>Synlestes weyersii</i>	177	90	78	49	11	1	1		2	4	58	101	10
Family Lestidae													
<i>Austrolestes analis</i>	94	42	24	6	3					5	81	133	6
<i>Austrolestes annulosus</i>	28	19	12	8	1	1			8	35	22	45	2
<i>Austrolestes aridus</i>	2		1	1				1	2	8		20	
<i>Austrolestes cingulatus</i>	67	36	15	8						20	41	39	3
<i>Austrolestes io</i>	1	1	1	1			1		1	8	4	10	
<i>Austrolestes leda</i>	64	17	25	8	4	3	1	11	48	68	80	134	10

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austrolestes minjerriba</i>										1	1	1	
<i>Austrolestes psyche</i>	78	15	4	11	3				4	23	47	35	
Family Argiolestidae													
<i>Austroargiolestes alpinus</i>	1	3											
<i>Austroargiolestes amabilis</i>	11		1	1		1				1	5	24	2
<i>Austroargiolestes brookhousei</i>	10						1				2	5	1
<i>Austroargiolestes calcaris</i>	15	3								8	32	42	
<i>Austroargiolestes christine</i>	2	1					1				1	14	1
<i>Austroargiolestes chrysoides</i>	3	1	2							1	5	1	
<i>Austroargiolestes icteromelas</i>	332	110	57	25	2	1		2	18	55	226	385	28
<i>Austroargiolestes isabellae</i>	3							3	5	14	17	6	
<i>Griseargiolestes albescens</i>			1						1			5	
<i>Griseargiolestes bucki</i>	5										2	22	10
<i>Griseargiolestes eboracus</i>	63	4	1	1			1			4	7	18	4
<i>Griseargiolestes fontanus</i>	11			1							2	14	
<i>Griseargiolestes griseus</i>	28	17	2	2					1	4	24	17	10
<i>Griseargiolestes intermedius</i>	9										3	10	4
Family Lestoideidae													
<i>Diphlebia coerulescens</i>	5	2	2	1			3			2	4	10	
<i>Diphlebia lestoides</i>	29	2					1		5	12	61	101	10
<i>Diphlebia nymphoides</i>	75	17	2	1						6	76	34	6
Family Isostictidae													
<i>Neosticta canescens</i>	9	1							1	1	20	38	18
<i>Rhadinosticta simplex</i>	28	30	22	12						2	3	10	
Family Platycnemidae													
<i>Nososticta solida</i>	65	17	6	2		1				2	52	35	1
Family Coenagrionidae													
<i>Argiocnemis pygmaea</i>	4	2	2		1						1	4	
<i>Argiocnemis rubescens</i>	4	2	2	1	1						2	1	1
<i>Austroagrion watsoni</i>	113	51	27	11					14	9	62	110	7
<i>Austrocnemis splendida</i>	5	4								1	4	7	4
<i>Ausrocoenagrion lyelli</i>	1	2									6	28	
<i>Caliagrion billinghursti</i>	3	5									16	13	4
<i>Ischnura aurora</i>	65	23	24	6	3				7	55	90	108	3
<i>Ischnura heterosticta</i>	124	81	39	14	7		1	1	7	25	122	81	6
<i>Pseudagrion aureofrons</i>	6	5	13	4							30	8	1
<i>Pseudagrion ignifer</i>	10	7	1	3							17	1	5
<i>Pseudagrion microcephalum</i>	4		1	1							5	1	1

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Xanthagrion erythroneurum</i>	48	31	21	8	2				2	49	43	63	5
Family Austropetaliidae													
<i>Austropetalia patricia</i>					1				1	15	5		2
<i>Austropetalia tonyana</i>			1						2	3	17	3	2
Family Aeshnidae													
<i>Acanthaeschna victoria</i>													4
<i>Adversaeschna brevistyla</i>	91	34	20	9					2	23	66	102	10
<i>Antipodophlebia asthenes</i>	1										1	8	1
<i>Austroaeschna atrata</i>	8	4	1	1							1	8	2
<i>Austroaeschna flavomaculata</i>		2											
<i>Austroaeschna inermis</i>		2	8	2						1	1		1
<i>Austroaeschna ingrid</i>	20		3									5	24
<i>Austroaeschna multipunctata</i>	13	28	28	14	4						3	8	1
<i>Austroaeschna obscura</i>	13	8	4	5	4					1	10	12	3
<i>Austroaeschna parvistigma</i>	12	11	5	5							3	11	
<i>Austroaeschna pinheyi</i>	2	2	2										
<i>Austroaeschna pulchra</i>	36	24	54	35	3	1				1	3	21	11
<i>Austroaeschna sigma</i>	18	2	9	8	7	2				1	3	11	23
<i>Austroaeschna subapicalis</i>	51	22	5	3		1	1			1	2	6	
<i>Austroaeschna unicornis</i>	30	33	39	23					1	3		10	7
<i>Austrogynacantha heterogena</i>	1				1		1						
<i>Austrophlebia costalis</i>	10	7	3				1		1	4	4	11	4
<i>Dendroaeschna conspersa</i>			15	12	2				1		1	4	4
<i>Hemianax papuensis</i>	47	34	31	7				6	24	26	30	38	2
<i>Notoaeschna geminata</i>	5	1		1					1	6	9	4	
<i>Notoaeschna sagittata</i>	12	9	1							3	13	28	2
<i>Spinaeschna tripunctata</i>	6	3								4	11	11	
<i>Telephlebia brevicauda</i>	33	12	7	1		2					1	12	2
<i>Telephlebia cyclops</i>	12	8	1		1				1			2	1
<i>Telephlebia godeffroyi</i>	24	12	6	2						1	9	24	10
Family Petaluridae													
<i>Petalura gigantea</i>	99	17									39	90	7
Family Gomphidae													
<i>Austroepigomphus praeruptus</i>	12	2		2								2	
<i>Austrogomphus amphiclitus</i>	34	10	4	2						1	7	14	1
<i>Austrogomphus australis</i>	3										5	5	
<i>Austrogomphus cornutus</i>	8	4	10	1						1	2	16	1
<i>Austrogomphus guerini</i>	162	85	22	4						5	51	104	9



The Distribution of Australian Dragonflies

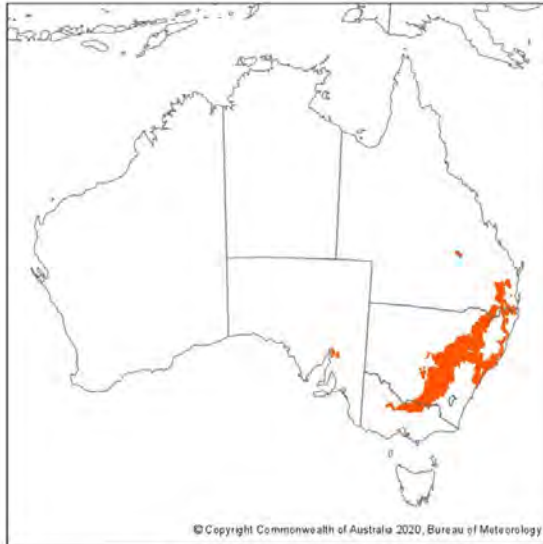
	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austrogomphus ochraceus</i>	96	70	18	8						3	34	89	12
<i>Hemigomphus gouldii</i>	79	28	8	1						2	15	69	13
<i>Hemigomphus heteroclytus</i>	30	13	9	5	1				2	2	35	19	3
<i>Ictinogomphus australis</i>													1
Family Synthemistidae													
<i>Archaeosynthemis orientalis</i>	48	3	4							2	9	13	2
<i>Choristhemis flavoterminalata</i>	38	14	2	3	1						6	30	1
<i>Eusynthemis aurolineata</i>	29	5	2	2			1				6	26	3
<i>Eusynthemis brevistyla</i>	69	19					1				22	77	1
<i>Eusynthemis guttata</i>	50	29	29	7							14	42	1
<i>Eusynthemis nigra</i>	10	1		1							9	5	
<i>Eusynthemis rentziana</i>	1										1	6	2
<i>Eusynthemis tillyardi</i>	8	8	1	2						4	13	21	4
<i>Eusynthemis ursa</i>											1	1	
<i>Eusynthemis ursula</i>											4	5	
<i>Eusynthemis virgula</i>	24	16	3		3				1	1	22	36	10
<i>Parasynthemis regina</i>	9	4	2	1							2	5	
<i>Synthemis eustalacta</i>	86	35	16	4			1			2	14	57	9
<i>Tonyosynthemis ofarrelli</i>	5											2	
Family Corduliidae													
<i>Hemicordulia australiae</i>	91	48	27	10	3				2	2	30	78	2
<i>Hemicordulia intermedia</i>	1	2	1								1	4	
<i>Hemicordulia superba</i>											2	2	
<i>Hemicordulia tau</i>	71	40	45	19	5	1			21	62	84	128	5
<i>Procordulia jacksoniensis</i>	18	4	2							6	5	14	
Family Libellulidae													
<i>Austrothemis nigrescens</i>	1											1	
<i>Crocothemis nigrifrons</i>	1	3	1								1	2	1
<i>Diplacodes bipunctata</i>	109	56	50	27	7			2	66	115	113	88	8
<i>Diplacodes haematodes</i>	46	35	21	21	3				1	8	67	27	2
<i>Diplacodes melanopsis</i>	49	17	18	4							11	58	6
<i>Hydrobasileus brevistylus</i>	1												
<i>Nannodiplax rubra</i>	1												
<i>Nannophlebia risi</i>	11	5	4	1	1					3	4	11	1
<i>Nannophya australis</i>	33	4	2				1			2	5	3	
<i>Nannophya dalei</i>	43	4	1							5	30	42	1
<i>Orthetrum caledonicum</i>	141	68	39	14					1	7	42	100	1
<i>Orthetrum sabina</i>	1	1	2	1									

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Orthetrum villosovittatum</i>	40	15	4	50	1						5	17	2
<i>Pantala flavescens</i>	2		3	2							1		
<i>Rhyothemis graphiptera</i>	4											1	1
<i>Tramea loewii</i>	7	3	3	3					1	4	1	1	
Genera incertae sedis													
<i>Apocordulia macrops</i>	14												2
<i>Archaeophya adamsi</i>		1										3	2
<i>Austrocordulia leonardi</i>										1	8	4	1
<i>Austrocordulia refracta</i>	5								2	5	14	9	
<i>Cordulephya divergens</i>			1	1	1								
<i>Cordulephya montana</i>	4	3	2								1	5	3
<i>Cordulephya pygmaea</i>	5	11	36	30	7	5					1	3	8
<i>Micromidia atrifrons</i>												1	1
<i>Micromidia convergens</i>				1									



Temperate - No dry season (hot Summer)



Temperate - no dry season (hot summer)

Species 123 Specimens 4482 Adults 3223 Larvae 1259

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synlestidae													
<i>Episynlestes albicauda</i>	6	4	2	3	5					2	1	5	
<i>Synlestes selysi</i>	2		1	4	1	1						5	1
<i>Synlestes weyersii</i>	9	12	5	5					1	1	3	7	9
Family Lestidae													
<i>Austrolestes analis</i>	7	4	3	3						2	5	10	
<i>Austrolestes annulosus</i>	2	2	1										
<i>Austrolestes aridus</i>				2					2		1		
<i>Austrolestes cingulatus</i>	2											2	
<i>Austrolestes leda</i>	30	8	8	10				7	20	14	17	7	3
<i>Austrolestes psyche</i>	13	2	3	1	1					2	4	2	
<i>Lestes concinnus</i>												1	

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Argiolestidae													
<i>Austroargiolestes amabilis</i>	3	1								1	1	1	
<i>Austroargiolestes brookhousei</i>	1											1	
<i>Austroargiolestes calcaris</i>											2		
<i>Austroargiolestes christine</i>												1	
<i>Austroargiolestes chrysoides</i>	4	1		1							6	3	
<i>Austroargiolestes icteromelas</i>	44	17	11	17	2				14	34	30	23	9
<i>Austroargiolestes isabellae</i>								1			2	1	
<i>Griseargiolestes eboracus</i>		1											1
<i>Griseargiolestes fontanus</i>	2	1											
<i>Griseargiolestes griseus</i>	1		2								1	1	16
Family Lestoideidae													
<i>Diphlebia coeruleascens</i>	9	2	2	1							5	2	
<i>Diphlebia lestoides</i>	1			1						1	1	1	4
<i>Diphlebia nymphoides</i>	12	11	2	2				2	18	4	20		
Family Isostictidae													
<i>Labidiosticta vallisii</i>	1				1								1
<i>Neosticta canescens</i>	5	1									13	4	2
<i>Rhadinosticta simplex</i>	7	6	8	1					2	4	2		
Family Platycnemidae													
<i>Nososticta solida</i>	41	24	13	4	1					15	24	16	1
<i>Nososticta solitaria</i>	1												
Family Coenagrionidae													
<i>Agriocnemis pygmaea</i>	4	7		3	1					2	9	15	
<i>Agriocnemis rubricauda</i>												1	
<i>Agriocnemis rubescens</i>	3	1		1						4	5	1	1
<i>Austroagrion watsoni</i>	5	9	4	4	2			7	7	8	9	3	
<i>Austrocnemis splendida</i>	3		2								1	1	
<i>Caliagrion billinghursti</i>				1									
<i>Ceriagrion aeruginosum</i>	1	1										1	1
<i>Ischnura aurora</i>	19	7	7	10				1	2	12	3	12	3
<i>Ischnura heterosticta</i>	26	21	17	14	4			1	8	26	11	9	16
<i>Ischnura pruinescens</i>		1											
<i>Pseudagrion aureofrons</i>	12	12	9	8	1					3	10	25	3
<i>Pseudagrion ignifer</i>	7	7	1	7					1		5	1	1
<i>Pseudagrion microcephalum</i>				1							3	5	
<i>Xanthagrion erythroneurum</i>	8	3	15	2	1			1	1	4	13	4	



The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Austropetalidae													
<i>Austropetalia patricia</i>													1
Family Aeshnidae													
<i>Acanthaeschna victoria</i>												3	
<i>Adversaeschna brevistyla</i>	7	5	7	3	1				2	2	6	6	4
<i>Antipodophlebia asthenes</i>		1										1	
<i>Austroaeschna muelleri</i>		2	1	1					1	3	1	4	1
<i>Austroaeschna multipunctata</i>											1		
<i>Austroaeschna obscura</i>	1												
<i>Austroaeschna parvistigma</i>						1						1	
<i>Austroaeschna pinheyi</i>	1	2	3	2	5						1	3	
<i>Austroaeschna pulchra</i>	5	2		12	2	1			1	1		3	1
<i>Austroaeschna sigma</i>	3	3		5	4	1						7	2
<i>Austroaeschna subapicalis</i>												1	
<i>Austroaeschna unicornis</i>	2	7	1	7									1
<i>Austrogynacantha heterogena</i>	2	1	1										2
<i>Austrophlebia costalis</i>	1									1	3	1	1
<i>Dendroaeschna conspersa</i>			1	7	2								
<i>Hemianax papuensis</i>	8	9	21	3	3		1	3	4	18	8	3	2
<i>Notoaeschna geminata</i>	1											1	
<i>Spinaeschna tripunctata</i>										1		1	1
<i>Telephlebia cyclops</i>	2	4		6		1					1	2	
<i>Telephlebia godeffroyi</i>	3						1			1	2	2	1
<i>Telephlebia undia</i>												1	
Family Petaluridae													
<i>Petalura gigantea</i>	22	1								2	3	11	4
<i>Petalura litorea</i>													1
Family Gomphidae													
<i>Antipodogomphus acolythus</i>	2											6	
<i>Austroepigomphus praeruptus</i>	11	1	2							1	6	7	4
<i>Austrogomphus amphiclitus</i>	19	7	5	2						1	1	24	3
<i>Austrogomphus angelorum</i>	1												
<i>Austrogomphus australis</i>	8	2	3								3	9	3
<i>Austrogomphus cornutus</i>	9	5	20	2						6	12	28	2
<i>Austrogomphus guerini</i>	4	8								4		1	
<i>Austrogomphus ochraceus</i>	9	8	2						1		7	11	6
<i>Hemigomphus gouldii</i>	6	4								1		2	
<i>Hemigomphus heteroclytus</i>	22	11	9	9	2				1	7	15	25	4

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Ictinogomphus australis</i>	4	2										2	1
Family Synthemiidae													
<i>Archaeosynthemis orientalis</i>												1	
<i>Choristhemis flavoterminata</i>	19	5	2	4							10	11	3
<i>Eusynthemis aurolineata</i>	7	2		2						2	2	8	2
<i>Eusynthemis brevistyla</i>		2										1	
<i>Eusynthemis deniseae</i>		1								4		7	2
<i>Eusynthemis guttata</i>												1	
<i>Eusynthemis nigra</i>	8	6		1						2	12	34	7
<i>Eusynthemis rentziana</i>											1		
<i>Eusynthemis tillyardi</i>											1	1	1
<i>Eusynthemis virgula</i>	2									1	1	2	3
<i>Parasynthemis regina</i>	15	6	2								1	6	2
<i>Synthemis eustalacta</i>	1	4										1	
<i>Tonyosynthemis ofarrelli</i>	2											1	2
Family Corduliidae													
<i>Hemicordulia australiae</i>	18	8	7	7	1				1	3	10	4	6
<i>Hemicordulia continentalis</i>	1	1										1	
<i>Hemicordulia intermedia</i>	1									1	1	8	
<i>Hemicordulia superba</i>	4	1	1									4	
<i>Hemicordulia tau</i>	9	5	10	3	11				3	13	18	2	2
<i>Procordulia jacksoniensis</i>		1											
Family Libellulidae													
<i>Aethriamanta circumsignata</i>												1	
<i>Aethriamanta nymphaeae</i>		1											
<i>Brachydiplax denticauda</i>			1									2	
<i>Crocothemis nigrifrons</i>	4		5	1		1				4		7	
<i>Diplacodes bipunctata</i>	11	16	23	17	5	1		1	2	16	16	16	4
<i>Diplacodes haematodes</i>	31	12	27	25	4				12	25	24	4	1
<i>Diplacodes melanopsis</i>	4	1		2					1	1	4	10	1
<i>Hydrobasileus brevistylus</i>	3	1										1	
<i>Nannodiplax rubra</i>										1	2	1	1
<i>Nannophlebia risi</i>	17	5	3	3						7	4	3	2
<i>Nannophya australis</i>	1										3	4	2
<i>Nannophya dalei</i>										2			
<i>Orthetrum caledonicum</i>	20	27	13	2			1		3	18	15	9	4
<i>Orthetrum sabina</i>	1	3	1						1		4		
<i>Orthetrum villosivittatum</i>	16	4	6	10	1			1		4	4	5	41



The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Pantala flavescens</i>	1		2										
<i>Rhodothemis lieftincki</i>		1										1	1
<i>Rhyothemis graphiptera</i>	8	1	1								1	10	1
<i>Rhyothemis phyllis</i>	1			1								2	
<i>Tramea loewii</i>		1	6	1				1	3	5	4	2	
<i>Zyxomma elgneri</i>				1									1
Genera incertae sedis													
<i>Apocordulia macrops</i>	1											1	1
<i>Austrocordulia leonardi</i>												1	
<i>Austrocordulia refracta</i>	4		1							1		2	
<i>Cordulephya pygmaea</i>		1	9	5	3	1							1
<i>Micromidia atrifrons</i>			2	1									
<i>Micromidia convergens</i>	1	1										1	

Subtropical - Moderately dry winter



Subtropical - moderately dry winter

Species 108 Specimens 1616 Adults 1373 Larvae 243

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synlestidae													
<i>Episynlestes albicauda</i>	1		1								1	3	
<i>Synlestes selysi</i>	1				1								
<i>Synlestes tropicus</i>													1
<i>Synlestes weyersii</i>			2										
Family Lestidae													
<i>Austrolestes analis</i>												2	
<i>Austrolestes aridus</i>	3			2			1		3	1			
<i>Austrolestes leda</i>		3	6	2	6	1	4		4	4	22	4	1
<i>Austrolestes psyche</i>	1												
<i>Indolestes tenuissimus</i>												1	1
<i>Lestes concinnus</i>						1			2			1	
Family Argiolestidae													
<i>Austroargiolestes aureus</i>										1			
<i>Austroargiolestes icteromelas</i>	6	4	20	7		1			4	9	8	2	

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestoideidae													
<i>Diphlebia euphoeoides</i>	1		2									3	
<i>Diphlebia nymphoides</i>			2									1	
<i>Lestoidea barbarae</i>											2		
<i>Lestoidea conjuncta</i>	1										2		
Family Isostictidae													
<i>Labidiosticta vallisii</i>	2	1		3					1				
<i>Rhadinosticta banksi</i>				2									
<i>Rhadinosticta simplex</i>	3									1	3	2	
Family Platycnemidae													
<i>Nososticta solida</i>	11	1	19	1					1	6	8	2	
<i>Nososticta solitaria</i>		1	1							1	1	3	
Family Coenagrionidae													
<i>Aciagrion fragile</i>												2	
<i>Agriocnemis argentea</i>										2			1
<i>Agriocnemis pygmaea</i>	1		5	1							7	1	
<i>Agriocnemis rubricauda</i>			3										
<i>Agriocnemis rubescens</i>		1	2	1							1	1	
<i>Austroagrion watsoni</i>	3	2		2					3	3	3	6	
<i>Austrocnemis splendida</i>	2			1					1		2	1	
<i>Ceriagrion aeruginosum</i>												1	
<i>Ischnura aurora</i>	1		2	6	1			1	4	5	17	14	1
<i>Ischnura heterosticta</i>	3	1	6	7			1	3	4	4	12	5	
<i>Pseudagrion aureofrons</i>	11	6	7	1						3	5	9	1
<i>Pseudagrion cingillum</i>	2											7	
<i>Pseudagrion ignifer</i>		3	1							1	2	7	
<i>Pseudagrion microcephalum</i>	1								2		3	1	
<i>Xanthagrion erythroneurum</i>	1		2	1					3	1	4	7	
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	6			5							3	1	
<i>Anax guttatus</i>	1											1	1
<i>Austroaeschna muelleri</i>			4	1								1	2
<i>Austroaeschna pinheyi</i>		46		2						10	1		
<i>Austroaeschna speciosa</i>			1									3	
<i>Austrogynacantha heterogena</i>	4	3	11	1						3	4	8	3
<i>Dromaeschna forcipata</i>											1	1	
<i>Dromaeschna weiskei</i>											1		
<i>Gynacantha dobsoni</i>		3		1								2	

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Hemianax papuensis</i>	2	2	9	5		1		2	1	1	1	4	
<i>Spinaeschna watsoni</i>	1											1	
Family Petaluridae													
<i>Petalura ingentissima</i>		1											
Family Gomphidae													
<i>Antipodogomphus acolythus</i>	1	2	1							1	1		
<i>Antipodogomphus proselythus</i>	1									1			
<i>Austroepigomphus praeruptus</i>	2	2								1	2	7	
<i>Austroepigomphus turneri</i>		1								2		1	
<i>Austrogomphus amphiclitus</i>		2	3	1						3	2	7	3
<i>Austrogomphus arbustorum</i>	2										1		
<i>Austrogomphus australis</i>	2										4		
<i>Austrogomphus bifurcatus</i>			4									3	
<i>Austrogomphus cornutus</i>			2							12	4	1	2
<i>Austrogomphus divaricatus</i>			2							1	4	4	
<i>Hemigomphus comitatus</i>												1	
<i>Hemigomphus heteroclytus</i>	1		1	2						2		3	
<i>Ictinogomphus australis</i>	7	3	3	1						2	1	12	2
Family Synthemistidae													
<i>Choristhemis flavoterminalata</i>	1	3	2	1							6	4	
<i>Eusynthemis deniseae</i>										1		1	
<i>Eusynthemis nigra</i>											5	21	14
<i>Parasynthemis regina</i>	3		1		2						1	1	
<i>Tonyosynthemis claviculata</i>			1									3	
Family Macromiidae													
<i>Macromia tillyardi</i>	1										2	2	
Family Corduliidae													
<i>Hemicordulia australiae</i>		2								3	1	2	
<i>Hemicordulia continentalis</i>												1	
<i>Hemicordulia intermedia</i>	2	2	5	1						1	4	4	
<i>Hemicordulia tau</i>		1	2	7						2	3	3	
Family Libellulidae													
<i>Aethriamanta circumsignata</i>	1											1	
<i>Aethriamanta nymphaea</i>										1			
<i>Brachydiplax denticauda</i>	1	1										1	
<i>Crocothemis nigrifrons</i>	5	1	4	2	1		2	1		2	1		
<i>Diplacodes bipunctata</i>	5	1	3	8	2		1		8	9	17	13	
<i>Diplacodes haematodes</i>	8	5	9	5		1	1		2	15	10	7	



The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Diplacodes nebulosa</i>												1	
<i>Diplacodes trivialis</i>	2	2			1						1		
<i>Hydrobasileus brevistylus</i>		2	1	1						1		3	
<i>Lathrecista asiatica festa</i>								1				2	
<i>Macrodiplax cora</i>	1	1											
<i>Nannodiplax rubra</i>		2											
<i>Nannophlebia eludens</i>												1	
<i>Nannophlebia risi</i>			1							5	6	3	1
<i>Nannophya australis</i>											5		1
<i>Neurothemis stigmatizans</i>	3							2				1	
<i>Orthetrum caledonicum</i>	4	2	9	18		1			2	3	14	9	
<i>Orthetrum migratum</i>	6									1	1		
<i>Orthetrum sabina</i>	1	3			1					1		2	
<i>Orthetrum villosovittatum</i>	1	2	1	13					1	2	14	3	
<i>Pantala flavescens</i>	2	1	5	1							1		
<i>Potamarcha congener</i>		20									1		
<i>Rhodothemis lieftincki</i>	3	3	2									5	
<i>Rhyothemis braganza</i>	2									1			
<i>Rhyothemis graphiptera</i>	8	2	2					4		2	2	2	1
<i>Rhyothemis phyllis</i>	1	1											1
<i>Rhyothemis princeps</i>			1									1	
<i>Tholymis tillarga</i>		2	3										
<i>Tramea loewii</i>	3	4	4	1					6	3	2	3	
<i>Zyxomma elgneri</i>	2	2	6	3						1	2	4	
Genera incertae sedis													
<i>Austrocordulia refracta</i>											1	2	
<i>Austrophya mystica</i>												1	
<i>Cordulephya bidens</i>					1								
<i>Micromidia atrifrons</i>	1	3	3	1							3		
<i>Pseudocordulia elliptica</i>												1	

Subtropical - Distinctly dry winter



Subtropical - distinctly dry winter

Species 106 Specimens 1111 Adults 1111 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synlestidae													
<i>Chorismagrion risi</i>		1	1										1
<i>Episynlestes cristatus</i>											1		
<i>Synlestes selysi</i>												1	
Family Lestidae													
<i>Austrolestes insularis</i>			3		3				1				
<i>Austrolestes leda</i>	6								1				
<i>Indolestes tenuissimus</i>											1		
<i>Lestes concinnus</i>			1	1		1			2	1		1	
Family Argiolestidae													
<i>Austroargiolestes aureus</i>			3										
<i>Austroargiolestes icteromelas</i>	4	1	2						3		1	4	
Family Lestoideidae													
<i>Diphlebia coerulea</i>	1												
<i>Diphlebia euphoeoides</i>	1	1	12	6	1						5	5	

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Lestoidea conjuncta</i>			1								2		
Family Isostictidae													
<i>Labidiosticta vallisii</i>			1	3									
<i>Neosticta fraseri</i>		1	10								1		
<i>Oristicta filicicola</i>					1					1			
<i>Rhadinosticta banksi</i>			1										
<i>Rhadinosticta simplex</i>			1								2		
Family Platycnemidae													
<i>Nososticta coelestina</i>	1		1								1	1	
<i>Nososticta solida</i>	2		7	2					8	3	2	6	
<i>Nososticta solitaria</i>	2	6	17	2	2				2	3	12	16	
Family Coenagrionidae													
<i>Aciagrion fragile</i>											1	1	
<i>Agriocnemis argentea</i>			1	3	2					4	1	12	
<i>Agriocnemis pygmaea</i>	1			2	1				3	1	3	3	
<i>Agriocnemis rubricauda</i>											1		
<i>Argiocnemis rubescens</i>			1			1	1		10	1	1	1	
<i>Austroagrion exclamationis</i>	1	2		1						1	3	1	
<i>Austroagrion watsoni</i>			1	1					7	1	2	10	
<i>Austrocnemis splendida</i>				1							4	1	
<i>Ceriagrion aeruginosum</i>		1			1						1	1	
<i>Ischnura aurora</i>		1	4		1				5	4	1	5	
<i>Ischnura heterosticta</i>	3	1	3	3	1	1	1		4	1	4	5	
<i>Ischnura pruinescens</i>		1	1	2					3		5	1	
<i>Pseudagrion aureofrons</i>			1						1	1	1	1	
<i>Pseudagrion ignifer</i>	9	1	2	1	2			1	6	3	11	14	
<i>Pseudagrion microcephalum</i>		1	3	3	1				4	3	8	5	1
<i>Xanthagrion erythroneurum</i>									1				
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>											1		
<i>Anax gibbosulus</i>			1										
<i>Anax guttatus</i>		1											
<i>Austroaeschna speciosa</i>	2	2	1								1		
<i>Austrogynacantha heterogena</i>			2						1				
<i>Dromaeschna forcipata</i>	4	4									6		
<i>Dromaeschna weiskei</i>	1										2		
<i>Gynacantha dobsoni</i>										1	2		
<i>Gynacantha nourlangie</i>								1			1		

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Gynacantha rosenbergi</i>										1	2		
<i>Hemianax papuensis</i>	3									1		1	
<i>Spinaeschna watsoni</i>	1	2											
<i>Telephlebia tillyardi</i>	1		1								6	1	
Family Petaluridae													
<i>Petalura ingentissima</i>	2												
Family Gomphidae													
<i>Antipodogomphus proselythus</i>													1
<i>Austroepigomphus turneri</i>											3	1	
<i>Austrogomphus amphiclitus</i>	1		1	2						2	2	3	
<i>Austrogomphus arbustorum</i>											1		
<i>Austrogomphus bifurcatus</i>			2										
<i>Austrogomphus cornutus</i>												3	
<i>Austrogomphus divaricatus</i>	1	3									1		
<i>Austrogomphus doddi</i>	2	2		1									
<i>Austrogomphus prasinus</i>	2	2									4	1	
<i>Hemigomphus comitatus</i>	4	1	1	1						1	5	3	
<i>Hemigomphus heteroclytus</i>											2		
<i>Ictinogomphus australis</i>				2						1	4	9	1
Family Synthemistidae													
<i>Choristhemis flavoterminalata</i>	5	2									6	7	
<i>Eusynthemis nigra</i>	2	1	2							2	1	1	
<i>Parasynthemis regina</i>											1		
<i>Tonyosynthemis claviculata</i>	1	4		1									
Family Macromiidae													
<i>Macromia tillyardi</i>	2										1		
Family Corduliidae													
<i>Hemicordulia australiae</i>										1	1	1	
<i>Hemicordulia intermedia</i>	4		1	1							5	1	
<i>Pentathemis membranulata</i>											4	1	
Family Libellulidae													
<i>Aethriamanta circumsignata</i>												2	
<i>Agrionoptera l.biserialis</i>											1		
<i>Brachydiplax denticauda</i>			1	1						4	7	1	
<i>Crocothemis nigrifrons</i>	2		2	3	1					3	3	6	
<i>Diplacodes bipunctata</i>	8		5	4	2			12	13	8	17	2	
<i>Diplacodes haematodes</i>	5	1	4	6	12	1	1	1	7	4	3	9	
<i>Diplacodes nebulosa</i>		1		1							1		



The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Diplacodes trivialis</i>		1	3	1	3			8	6	4	15	1	1
<i>Hydrobasileus brevistylus</i>	1	4	3	1						1	4	1	
<i>Lathrecista asiatica festa</i>			2								2		
<i>Macrodiplax cora</i>		1									3	1	
<i>Nannodiplax rubra</i>	1		1		3	1			3	3	2	3	
<i>Nannophlebia eludens</i>	1	3		1							1	1	
<i>Nannophlebia risi</i>	1	1	4	1	2					2	2	2	
<i>Neurothemis stigmatizans</i>	1	2	2	2	6				2	1	7		1
<i>Orthetrum caledonicum</i>	6	1	1	2	2			3	11	3	3	3	
<i>Orthetrum migratum</i>			1	1							2	1	
<i>Orthetrum sabina</i>			1	2	2			1		4	1	1	1
<i>Orthetrum serapia</i>											1		
<i>Orthetrum villosovittatum</i>	4	1	2	2	3				3		2	2	
<i>Pantala flavescens</i>			1	1					1	2	1		
<i>Rhodothemis lieftincki</i>					1					1	5	4	
<i>Rhyothemis braganza</i>	1	1								1	6	10	
<i>Rhyothemis graphiptera</i>	1		1	2					1	2	7	2	1
<i>Rhyothemis phyllis</i>			2	3						3	4	1	
<i>Rhyothemis princeps</i>											2		1
<i>Tetrathemis i.cladophila</i>											2	4	
<i>Tholymis tillarga</i>			2								3		
<i>Tramea eurybia</i>		1											
<i>Tramea loewii</i>	3		3	4	3	1		1	1	1	2	1	
<i>Urothemis aliena</i>											1		
<i>Zyxomma petiolatum</i>											1		
Genera incertae sedis													
<i>Archaeophya magnifica</i>		2											
<i>Austrophya mystica</i>											2	1	
<i>Micromidia atrifrons</i>			2	1									
<i>Pseudocordulia elliptica</i>											1		

Equatorial – Savanna



Equatorial - savanna

Species 104 Specimens 2423 Adults 2423 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes insularis</i>	1	14	24		1		4	3					
<i>Indolestes alleni</i>	2				1	2	2	1		1	1	3	
<i>Indolestes tenuissimus</i>	4	2								2		5	
<i>Lestes concinnus</i>	2		7				1					2	
Family Argiolestidae													
<i>Podopteryx selysi</i>													1
Family Isostictidae													
<i>Oristicta filicicola</i>			6	14	1	1				1	9		
<i>Rhadinosticta banksi</i>		3											
Family Platycnemididae													
<i>Nososticta coelestina</i>	3		35			10	1	3	4		6	6	
<i>Nososticta fraterna</i>										32		12	
<i>Nososticta koolpinyah</i>			1			13		1		60			
<i>Nososticta solida</i>		1	1										

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Nososticta solitaria</i>	3		8			1	3		1			4	
<i>Nososticta taracumbi</i>	1					10	1			21			
Family Coenagrionidae													
<i>Aciagrion fragile</i>	2	1	5	4		1	2	1	5	24	19		
<i>Agriocnemis femina</i>				2									
<i>Agriocnemis pygmaea</i>	1		2	2	1		1		1	3	2		
<i>Agriocnemis rubricauda</i>									31	19			
<i>Archibasis mimetes</i>	3						1	1					
<i>Argiocnemis rubescens</i>							1		14	21		1	
<i>Austroagrion exclamationis</i>		3	8	2	5	1	4	5		31	7	5	
<i>Austrocnemis maccullochi</i>										25			
<i>Ceriagrion aeruginosum</i>	3				1	2	1	11	6	16	1	2	2
<i>Ischnura aurora</i>			2		5	2			1		2		
<i>Ischnura heterosticta</i>	3	10	5	16	1	4	8	1	4	16		2	
<i>Ischnura pruinescens</i>				1					1	8			
<i>Pseudagrion cingillum</i>					1							1	
<i>Pseudagrion ignifer</i>				4					3	9		1	
<i>Pseudagrion lucifer</i>			16			1	4	2				5	
<i>Pseudagrion microcephalum</i>	2		2		14		2	1	2	11			
<i>Teinobasis rufithorax</i>	11	4	8	22		3	4				1	4	
Family Aeshnidae													
<i>Agyrtacantha dirupta</i>	1					3	3				1		
<i>Anaciaeschna jaspidea</i>	1	2	2		2								1
<i>Anax gibbosulus</i>	2	1	1				1	2		2	1	1	
<i>Anax guttatus</i>	8	5	6	5	1				1		1	13	
<i>Austrogynacantha heterogena</i>	1	1				1							
<i>Gynacantha dobsoni</i>	1		1	1		21	11	1		3			
<i>Gynacantha kirbyi</i>							1	1			1		
<i>Gynacantha mocsaryi</i>	2		1	2		4				1	1	3	
<i>Gynacantha rosenbergi</i>	3	3				1					7		
<i>Hemianax papuensis</i>		1	7	1		1		1					
Family Petaluridae													
<i>Petalura pulcherrima</i>	1											1	
Family Gomphidae													
<i>Antipodogomphus edentulus</i>	1												
<i>Antipodogomphus proselythus</i>	1											4	
<i>Austroepigomphus turneri</i>	1									1	2		
<i>Austrogomphus arbustorum</i>										1			

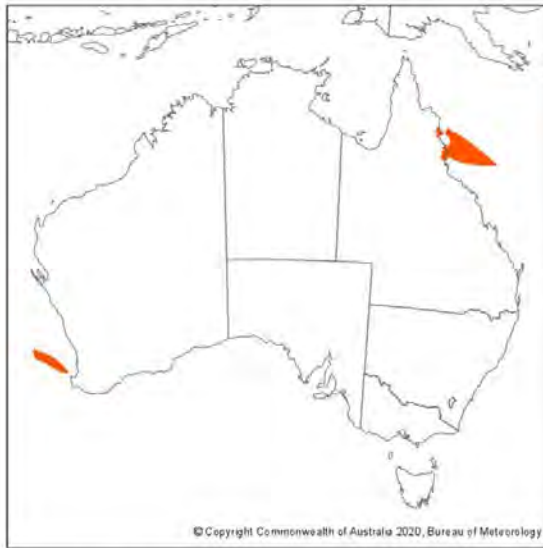
	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austrogomphus mjobergi</i>	2		2	1									
<i>Austrogomphus prasinus</i>				5	1							3	
<i>Ictinogomphus australis</i>	1		1							1	3	1	
<i>Ictinogomphus paulini</i>	2									2	1		
Family Macromiidae													
<i>Macromia tillyardi</i>			3							2			
<i>Macromia viridescens</i>	1		1	1									1
Family Corduliidae													
<i>Hemicordulia continentalis</i>	1												
<i>Hemicordulia kalliste</i>	2												
<i>Metaphya tillyardi</i>												1	1
<i>Pentathemis membranulata</i>	3									4		1	
Family Libellulidae													
<i>Aethriamanta circumsignata</i>	1									1			
<i>Aethriamanta nymphaea</i>	1		1										
<i>Agrionoptera i.allogenes</i>	2	4	4	3		1	1	2			1	3	
<i>Agrionoptera l.biserialis</i>	2			1					1				
<i>Brachydiplax denticauda</i>	5	1		5		1		1	8	3		2	3
<i>Brachydiplax duivenbodei</i>	2											1	
<i>Camacinia othello</i>	2	3			1			1	1				2
<i>Crocothemis nigrifrons</i>	1						1						1
<i>Diplacodes bipunctata</i>	3	8	12	6	2	2			1	2			1
<i>Diplacodes haematodes</i>	5	1	9	2	9	4	16	3	11	6	2	3	
<i>Diplacodes nebulosa</i>	2		11			1		2				4	
<i>Diplacodes trivialis</i>	7	13	5	5	2	6	5		3	4	1	1	2
<i>Huonia melvillensis</i>										5			
<i>Hydrobasileus brevistylus</i>				12		2		4	3			2	2
<i>Lathrecista asiatica festa</i>	15	9	11	2	6	7	4	6	18	3	4	8	
<i>Macrodiplax cora</i>	2	2	1	1	2		2		1	2	2	3	
<i>Nannodiplax rubra</i>	7		18	3		2	9	28	4	22	1	3	3
<i>Nannophlebia eludens</i>		1	7	4		3	1		1	1			
<i>Nannophlebia mudginberri</i>										3			
<i>Nannophlebia risi</i>	1		1						1				
<i>Nannophya australis</i>	1		7						1				
<i>Nannophya paulson</i>	2												
<i>Neurothemis oligoneura</i>	3	9		1	1	12	4	9	14	3	1	3	5
<i>Neurothemis stigmatizans</i>	14	17	21	8	9	37	25	13	38	13	5	18	9
<i>Orthetrum balteatum</i>	2						1			1			



The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Orthetrum caledonicum</i>	2		3				2	2	1	4	1	4	1
<i>Orthetrum migratum</i>	5		18						1	5			
<i>Orthetrum sabina</i>	7	3	6	2	2	1	1	1	9	2	1	5	3
<i>Orthetrum serapia</i>	2			2	2	4	6	3	2		5		3
<i>Orthetrum villosovittatum</i>	6		2	2		3	1	2	4	1	1	4	2
<i>Pantala flavescens</i>	9	17	11	1	1	3					1	1	1
<i>Potamarcha congener</i>	1			1							2		
<i>Raphismia bispina</i>					4								
<i>Rhodothemis lieftincki</i>	4	1						1	1			3	
<i>Rhyothemis branganza</i>	2	3		1					2	2	5	1	1
<i>Rhyothemis graphiptera</i>	10		7	4	3	6			2		1	2	2
<i>Rhyothemis phyllis</i>	7	1	4							1	2	5	1
<i>Rhyothemis princeps</i>	2	1											
<i>Rhyothemis resplendens</i>	8	1	1									8	
<i>Tetrathemis irregularis</i>		2	1			1	1			1	1	2	
<i>Tholymis tillarga</i>	5	3	6	3	2	12	5	3	1	1	3	9	
<i>Tramea loewii</i>	6	8	33	3	8	5	6	2	1	1	1	1	3
<i>Tramea propinqua</i>			2				1						
<i>Tramea stenoloba</i>	1	2							1			2	
<i>Urothemis aliena</i>	5									1			
<i>Zyxomma elgneri</i>							1					4	
<i>Zyxomma multinervorum</i>	2												
<i>Zyxomma petiolatum</i>											1	2	
Genera incertae sedis													
<i>Micromidia rodericki</i>	1												

Tropical - Rainforest (persistently wet)



Tropical - rainforest (persistently wet)

Species 103 Specimens 1071 Adults 1071 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synlestidae													
<i>Chorismagrion risi</i>	1		2								2		
<i>Episynlestes cristatus</i>											2		
<i>Synlestes tropicus</i>			1								5		
Family Lestidae													
<i>Indolestes alleni</i>				1									
<i>Indolestes tenuissimus</i>			1								2	2	
<i>Lestes concinnus</i>					1								
Family Argiolestidae													
<i>Austroargiolestes aureus</i>	1	6	3						2	7	5	3	
<i>Austroargiolestes icteromelas</i>								1					
<i>Griseargiolestes metallicus</i>	1								5	7	2		
<i>Podopteryx selysi</i>	1		1	1						1			
Family Lestoideidae													
<i>Diphlebia euphoeoides</i>	7	7	7	1		1		6	20	6	5	13	

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Diphlebia hybridoides</i>										2	5		
<i>Lestoidea barbarae</i>											2	2	
<i>Lestoidea brevicauda</i>			1							4	2		
<i>Lestoidea conjuncta</i>	5		1			2			1	3	6		
Family Isostictidae													
<i>Neosticta fraseri</i>	1		1						1				
<i>Oristicta filicicola</i>	1	2	4					2	1	3	2	1	
<i>Rhadinosticta simplex</i>				2						1	1		
Family Platynemidae													
<i>Nososticta coelestina</i>		1	4	2					1	4	3	12	
<i>Nososticta solitaria</i>	4		8	1				1	5	10	2	25	
Family Coenagrionidae													
<i>Aciagrion fragile</i>						1			4	4	5	1	
<i>Argiocnemis argentea</i>										1		1	
<i>Argiocnemis dobsoni</i>	3								2	2	7		
<i>Argiocnemis pygmaea</i>									1		2		
<i>Archibasis mimetes</i>				4					7	7	2		
<i>Argiocnemis rubescens</i>			1	1				1	4	1	2	3	
<i>Austroagrion exclamationis</i>											1		
<i>Ceriagrion aeruginosum</i>	1			1					10	1	3	2	
<i>Ischnura aurora</i>	1		1			1					1	4	
<i>Ischnura heterosticta</i>				1				1	1	1	1		
<i>Ischnura pruinescens</i>				3									
<i>Pseudagrion aureofrons</i>												1	
<i>Pseudagrion ignifer</i>	2		1	1				3	16	4	3	4	
<i>Pseudagrion microcephalum</i>	1		2						9	2	2	2	
<i>Teinobasis rufithorax</i>			3						1	7		2	
Family Aeshnidae													
<i>Anax gibbosulus</i>					1				1				
<i>Anax guttatus</i>		1											
<i>Austrogynacantha heterogena</i>		1	1										
<i>Austrophlebia subcostalis</i>											1	1	
<i>Dromaeschna forcipata</i>	4		1							3	4	1	1
<i>Dromaeschna weiskei</i>				1						1	2	1	1
<i>Gynacantha dobsoni</i>	1							2	1	6	1		
<i>Gynacantha kirbyi</i>										1			
<i>Gynacantha mocsaryi</i>		1	1						1	3			
<i>Gynacantha rosenbergi</i>	1		1		1					5	1	2	

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Hemianax papuensis</i>	2	3	1								1		
<i>Spinaeschna watsoni</i>									1		1		
<i>Telephlebia tillyardi</i>			1								1	1	
Family Petaluridae													
<i>Petalura ingentissima</i>	3		1								1	3	1
Family Gomphidae													
<i>Antipodogomphus acolythus</i>												1	
<i>Austrogomphus amphiclitus</i>												1	
<i>Austrogomphus bifurcatus</i>	1			1					1	1	1	1	
<i>Austrogomphus divaricatus</i>											2		
<i>Austrogomphus doddi</i>									1				
<i>Austrogomphus prasinus</i>	3								1	2	7	6	
<i>Hemigomphus comitatus</i>	2									1	4	2	
<i>Hemigomphus theischingeri</i>			1								2	3	
<i>Ictinogomphus australis</i>		1									1		
<i>Odontogomphus donnellyi</i>											1		
Family Synthemistidae													
<i>Choristhemis flavoterminalata</i>	1		1						3	4	4	10	
<i>Choristhemis olivei</i>	1												
<i>Eusynthemis nigra</i>										1	6	1	3
Family Corduliidae													
<i>Hemicordulia australiae</i>			1						1		1		
<i>Hemicordulia continentalis</i>	1	1	1						3	3	3	2	
<i>Hemicordulia intermedia</i>			1								1		
Family Libellulidae													
<i>Aethriamanta circumsignata</i>									2			1	
<i>Agrionoptera i.allogenes</i>	1	2	6	8		2			1	5	2	1	
<i>Agrionoptera l.biserialis</i>		1	2								4	2	
<i>Brachydiplax denticauda</i>			2	2							2		
<i>Brachydiplax duivenbodei</i>	9		13						1				
<i>Camacinia othello</i>		1											
<i>Crocothemis nigrifrons</i>									1				
<i>Diplacodes bipunctata</i>			2			1	1			1			
<i>Diplacodes haematodes</i>					1	3		1	5		1		
<i>Diplacodes nebulosa</i>				1					1				
<i>Diplacodes trivialis</i>		1	1	2							2	1	
<i>Hydrobasileus brevistylus</i>	1									2	4	1	
<i>Lathrecista asiatica festa</i>				2				3	2	2			



The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Macrodiplax cora</i>	1												
<i>Nannodiplax rubra</i>	3		4	1		5		1	4	4	4	1	
<i>Nannophlebia eludens</i>	1			1						1	1	8	
<i>Nannophlebia risi</i>											1		
<i>Neurothemis stigmatizans</i>	6	2	20		2	4	1	5	12	8	3	14	1
<i>Orthetrum caledonicum</i>					1	4							
<i>Orthetrum sabina</i>		1	1	3	1	7			2	3	4	3	
<i>Orthetrum serapia</i>										1	1		
<i>Orthetrum villosovittatum</i>	7		5			6	1	1	6	18	4	6	
<i>Pantala flavescens</i>		1			1								
<i>Potamarcha congener</i>			1										
<i>Rhodothemis lieftincki</i>											1	1	
<i>Rhyothemis phyllis</i>	4		2	1					7	2	1		
<i>Rhyothemis princeps</i>	7		1	3				2	2	6	7		
<i>Rhyothemis resplendens</i>	9	1							2		4	3	
<i>Tetrathemis i. cladophila</i>		3	3	3					1		2	4	
<i>Tholymis tillarga</i>	1				1				2		1		
<i>Tramea loewii</i>			2	2	1	1		3	2	1	1	1	
<i>Tramea propinqua</i>											1	1	
<i>Urothemis aliena</i>											1		
<i>Zyxomma petiolatum</i>										1		1	
Genera incertae sedis													
<i>Archaeophya magnifica</i>										1	1		2
<i>Austrophya mystica</i>			1							1			
<i>Pseudocordulia circularis</i>									1	7	1		
<i>Pseudocordulia elliptica</i>											2		

Temperate - No dry season (mild Summer)



Temperate - no dry season (mild summer)

Species 95 Specimens 4788 Adults 4475 Larvae 313

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Hemiphlebiidae													
<i>Hemiphlebia mirabilis</i>	10	1		1							5	4	1
Family Synlestidae													
<i>Synlestes selysi</i>	1												
<i>Synlestes weyersii</i>	47	87	15	10	2						4	41	1
Family Lestidae													
<i>Austrolestes analis</i>	28	21	4		1					5	20	20	1
<i>Austrolestes annulosus</i>	25	13	11	2	5	5	7		6	17	26	16	1
<i>Austrolestes aridus</i>												1	
<i>Austrolestes cingulatus</i>	20	48	3			1				3	18	42	2
<i>Austrolestes io</i>	3	3	3						2	6	3	2	
<i>Austrolestes leda</i>	12	12	2							6	6	28	
<i>Austrolestes minjerriba</i>		1	1										
<i>Austrolestes psyche</i>	24	42	12				4		3	11	16	26	2
Family Argiolestidae													

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austroargiolestes alpinus</i>	12	2								1	1	1	1
<i>Austroargiolestes brookhousei</i>	4											4	4
<i>Austroargiolestes calcaris</i>	52	14	3							2	5	63	1
<i>Austroargiolestes christine</i>	1											6	26
<i>Austroargiolestes icteromelas</i>	35	25	2	1					1	10	17	93	2
<i>Austroargiolestes isabellae</i>	3										2	20	
<i>Griseargiolestes bucki</i>		1										3	1
<i>Griseargiolestes eboracus</i>	12	6								3	10	26	13
<i>Griseargiolestes griseus</i>	35	1									6	17	1
<i>Griseargiolestes intermedius</i>	8	34	2							1	1	9	
Family Lestoideidae													
<i>Diphlebia lestoides</i>	11	1								5	15	57	2
<i>Diphlebia nymphoides</i>	5	1									2	7	
Family Isostictidae													
<i>Neosticta canescens</i>											1	2	
<i>Rhadinosticta simplex</i>		1										1	
Family Platycnemidae													
<i>Nososticta solida</i>												1	
Family Coenagrionidae													
<i>Agrionemys pygmaea</i>											1	1	
<i>Austroagrion watsoni</i>	27	19	4						4	4	6	12	1
<i>Austrocnemis splendida</i>												1	
<i>Ausrocoenagrion lyelli</i>	10	4								2	9	7	2
<i>Ischnura aurora</i>	15	15	7						2	5	19	24	
<i>Ischnura heterosticta</i>	29	13	4	2	1	2	2		8	13	25	24	3
<i>Pseudagrion ignifer</i>	1												
<i>Pseudagrion microcephalum</i>													1
<i>Xanthagrion erythroneurum</i>	7	10	5		1					3	9	10	
Family Austropetaliidae													
<i>Archipetalia auriculata</i>		1											1
<i>Austropetalia patricia</i>										1	6	2	2
<i>Austropetalia tonyana</i>										4	13		1
Family Aeshnidae													
<i>Acanthaeschna victoria</i>											2		
<i>Adversaeschna brevistyla</i>	20	23	12	6	2	5			3	7	14	29	4
<i>Austroaeschna atrata</i>	13	6	6									3	2
<i>Austroaeschna flavomaculata</i>	9	22	5								1		
<i>Austroaeschna hardyi</i>	15	37	17	2	2				1	12	1	1	

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austroaeschna inermis</i>	6	12	10	1							2		1
<i>Austroaeschna multipunctata</i>	13	49	17								1	2	32
<i>Austroaeschna obscura</i>	6	4	1	1								3	1
<i>Austroaeschna parvistigma</i>	23	31	20	2	1					3	6	13	5
<i>Austroaeschna pulchra</i>	22	10	12	3						1	2	6	3
<i>Austroaeschna sigma</i>	8	5	3								2	5	2
<i>Austroaeschna subapicalis</i>	16	17	5	2							2	7	8
<i>Austroaeschna tasmanica</i>	4	13	2	1						6			
<i>Austroaeschna unicornis</i>	11	11	11	1					5	10	2	3	3
<i>Austrophlebia costalis</i>	1												
<i>Hemianax papuensis</i>	9	6	4	1						3	2	5	1
<i>Notoaeschna geminata</i>	4	1								3	3	5	
<i>Notoaeschna sagittata</i>	13	4	1							1	3	13	1
<i>Spinaeschna tripunctata</i>	8	1										1	
<i>Telephlebia brevicauda</i>	38	25	8	2		1			1		3	9	2
<i>Telephlebia godeffroyi</i>	12		3								3	3	1
Family Petaluridae													
<i>Petalura gigantea</i>	76	12	1			1					1	33	
Family Gomphidae													
<i>Austrogomphus amphiclitus</i>			1							1		1	
<i>Austrogomphus cornutus</i>	1											2	
<i>Austrogomphus guerini</i>	59	47	7	1					5	3	10	44	4
<i>Austrogomphus ochraceus</i>	4	8	2								3	5	
<i>Hemigomphus gouldii</i>	20	5							1		2	20	2
<i>Hemigomphus heteroclytus</i>	3											2	
Family Synthemistidae													
<i>Archaeosynthemis orientalis</i>	15	4	2								1	1	1
<i>Choristhemis flavoterminata</i>	1												
<i>Eusynthemis aurolineata</i>	3	10									1	6	14
<i>Eusynthemis brevistyla</i>	42	14									4	44	9
<i>Eusynthemis guttata</i>	26	35	13	1							1	34	
<i>Eusynthemis rentziana</i>	2											3	
<i>Eusynthemis tillyardi</i>	13	2									3	18	1
<i>Eusynthemis ursa</i>												1	
<i>Eusynthemis ursula</i>												1	
<i>Eusynthemis virgula</i>	16	3	1								1	10	2
<i>Syn. gomphomacromioides</i>	5	28	6							1			
<i>Synthemis eustalacta</i>	58	71	13							1	10	42	5



The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Synthemis tasmanica</i>	18	42	9		1							2	2
Family Corduliidae													
<i>Hemicordulia australiae</i>	1	1	1								3	4	
<i>Hemicordulia intermedia</i>	1												
<i>Hemicordulia tau</i>	23	34	8						2	8	15	32	
<i>Procordulia jacksoniensis</i>	25	24	6		1		1		4	8	18	16	3
Family Libellulidae													
<i>Austrothemis nigrescens</i>	3	2									1		
<i>Diplacodes bipunctata</i>	23	16	1	1							8	17	
<i>Diplacodes haematodes</i>	1	1	2	2							4	7	2
<i>Diplacodes melanopsis</i>		2										1	
<i>Nannophya australis</i>	3	3	1							1	1		2
<i>Nannophya dalei</i>	28	40	1							5	10	16	2
<i>Orthetrum caledonicum</i>	6	5	2								2	5	2
<i>Orthetrum villosovittatum</i>	1	2										1	
<i>Rhyothemis graphiptera</i>		1											
Genera incertae sedis													
<i>Cordulephya montana</i>	10	1										2	

Grassland - Hot (Winter drought)



Grassland - hot (winter drought)

Species 90 Specimens 1421 Adults 1419 Larvae 2

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes annulosus</i>	1												
<i>Austrolestes aridus</i>		1	1	2				3		2			1
<i>Austrolestes insularis</i>				1		1	4				1		
<i>Austrolestes leda</i>				3							1		
<i>Lestes concinnus</i>	1	5		6	5	3	1				4	1	
Family Argiolestidae													
<i>Austroargiolestes icteromelas</i>				12							1		
Family Isostictidae													
<i>Austrosticta fieldi</i>			1	6						1			
<i>Austrosticta frater</i>				16									1
<i>Austrosticta soror</i>			11										
<i>Eurysticta kununurra</i>	2	2											
<i>Eurysticta reevesi</i>				2									
<i>Rhadinosticta banksi</i>		4	9	5									

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Platycnemididae													
<i>Nososticta coelestina</i>			1										
<i>Nososticta fraterna</i>	1			18	1	1	1		1	9	4	1	
<i>Nososticta kalumburu</i>	2							1				1	
<i>Nososticta liveringa</i>		56			12		5	14	1		4		
<i>Nososticta solida</i>			1							4		1	
<i>Nososticta solitaria</i>		4		2							1	6	
Family Coenagrionidae													
<i>Agriocnemis argentea</i>		2		14						5			
<i>Agriocnemis pygmaea</i>		2	4	2		2	1		2	4	3		
<i>Argiocnemis rubescens</i>				6		1				5	4	1	
<i>Austroagrion exclamationis</i>				2	1			1	3	3	6	1	1
<i>Austroagrion watsoni</i>				22	4		2	2	1	6		2	
<i>Austrocnemis maccullochi</i>				1						4	6	1	
<i>Austrocnemis splendida</i>												2	1
<i>Ceriagrion aeruginosum</i>	1	3				3	5			1		2	
<i>Ischnura aurora</i>		2	4	29	3		1	1	5	4		3	
<i>Ischnura heterosticta</i>		4		1	3	3	2		3	3	3	5	1
<i>Ischnura pruinescens</i>		1		1									1
<i>Pseudagrion aureofrons</i>		11	15				6	4	1	3			
<i>Pseudagrion cingillum</i>		4					2	4	1	8	1		
<i>Pseudagrion ignifer</i>			1	1								1	
<i>Pseudagrion jedda</i>	1			4		1	3			8	2		
<i>Pseudagrion lucifer</i>	1												
<i>Pseudagrion microcephalum</i>	1	19	11	10	1		3	3	8	3	10	1	
<i>Xanthagrion erythroneurum</i>	1	1	1	5				2		1	4	1	
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>									1	1			
<i>Anax gibbosulus</i>		2										3	
<i>Anax guttatus</i>	1												
<i>Austrogynacantha heterogena</i>	1	7		20	1								
<i>Gynacantha nourlangie</i>				3	4				1	5	2	1	
<i>Hemianax papuensis</i>	13	5	4	6	4	1						3	2
Family Gomphidae													
<i>Antipodogomphus acolythus</i>				1									
<i>Antipodogomphus neophytus</i>	3	1		1									
<i>Antipodogomphus proselythus</i>												2	
<i>Austroepigomphus turneri</i>											2	5	

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austrogomphus amphiclitus</i>													1
<i>Austrogomphus arbustorum</i>			1									4	
<i>Austrogomphus cornutus</i>										1			
<i>Austrogomphus doddi</i>			1										
<i>Austrogomphus mjobergi</i>		4			1					1		2	
<i>Austrogomphus pusillus</i>													1
<i>Ictinogomphus australis</i>		3		4	1					2	2	7	2
Family Synthemistidae													
<i>Choristhemis flavoterminata</i>				6									
Family Corduliidae													
<i>Hemicordulia australiae</i>		1							1	2			
<i>Hemicordulia continentalis</i>		5										1	
<i>Hemicordulia intermedia</i>	1			4			1		2	8			
<i>Hemicordulia tau</i>		1		2									
<i>Pentathemis membranulata</i>												2	
Family Libellulidae													
<i>Aethriamanta circumsignata</i>										1		4	1
<i>Brachydiplax denticauda</i>					1								
<i>Crocothemis nigrifrons</i>	1	7		1		1	2		1	2	1	8	
<i>Diplacodes bipunctata</i>	5	10	9	21	7	4	3	1	2	3	1	5	2
<i>Diplacodes haematodes</i>	5	1	6	42	1	7	7		3	12	4	19	
<i>Diplacodes trivialis</i>	1	8		1	1	5	1	1			1	6	
<i>Hydrobasileus brevistylus</i>	1	3										6	1
<i>Lathrecista asiatica festa</i>											1		
<i>Macrodiplex cora</i>		2		1						2	2		
<i>Nannodiplex rubra</i>	4			12	4					2	1		1
<i>Nannophlebia injibandi</i>				1						6	1		
<i>Nannophlebia risi</i>			1							1			
<i>Neurothemis oligoneura</i>						6				1			
<i>Neurothemis stigmatizans</i>		1		1				1		1	1		
<i>Notolibellula bicolor</i>	1				2					1	1		
<i>Orthetrum caledonicum</i>	6	4	8	17	1	4	1	1	2	11		7	2
<i>Orthetrum migratum</i>				1					1	4			1
<i>Orthetrum sabina</i>		4	2			3						2	
<i>Orthetrum serapia</i>		1											
<i>Orthetrum villosovitatum</i>		5		4								5	
<i>Pantala flavescens</i>	1	7	6	4	2	5	1		2			2	2
<i>Potamarcha congener</i>		3						1		1	1		



The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Rhodothemis lieftincki</i>		1		1							2	2	
<i>Rhyothemis braganza</i>	3	1	1	4						2		2	
<i>Rhyothemis graphiptera</i>	4	3	3	3	2	1	1			4	5	4	
<i>Rhyothemis phyllis</i>			1										
<i>Tholymis tillarga</i>		2					1				2		
<i>Tramea loewii</i>	2	8		11	1	2	2	2	4	4		5	2
<i>Tramea propinqua</i>													
<i>Tramea stenoloba</i>		1	1	2									
<i>Zyxomma elgneri</i>			1	8						1	1	1	

Temperate - Distinctly dry (and warm) Summer



Temperate - distinctly dry (and warm) summer

Species 54 Specimens 1387 Adults 1380 Larvae 7

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Hemiphlebiidae													
<i>Hemiphlebia mirabilis</i>	6		1								4	17	16
Family Lestidae													
<i>Austrolestes aleison</i>		4		2								3	2
<i>Austrolestes analis</i>	20	5	10	10					1	1	27	42	3
<i>Austrolestes annulosus</i>	14		2	7						17	17	24	2
<i>Austrolestes aridus</i>											1		
<i>Austrolestes cingulatus</i>								1					
<i>Austrolestes io</i>	5	3	1				1			2	8	8	1
<i>Austrolestes leda</i>			1									13	1
<i>Austrolestes psyche</i>	1		1							6	6	14	
Family Argiolestidae													
<i>Archiargiolestes parvulus</i>										2		1	
<i>Archiargiolestes pusillissimus</i>	1	1								4	30	7	

The Distribution of Australian Dragonflies

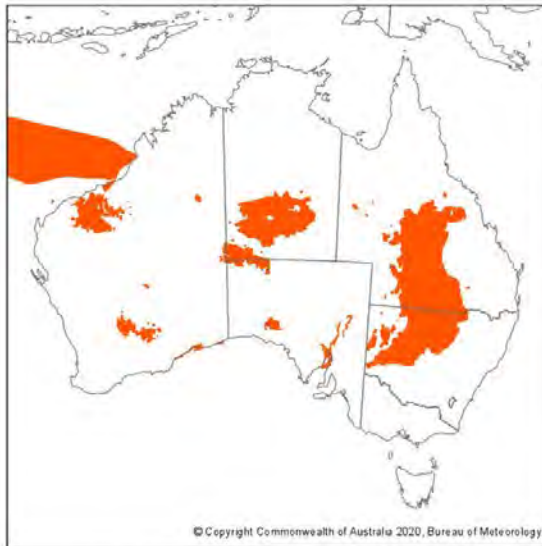
	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Archiargiolestes pusillus</i>									1	49	49	41	2
<i>Austroargiolestes icteromelas</i>												1	
<i>Miniargiolestes minimus</i>	17		2							5	12	16	
Family Coenagrionidae													
<i>Austroagrion cyane</i>	1			3						2	13	19	
<i>Austroagrion watsoni</i>											3	12	
<i>Ausrocoenagrion lyelli</i>											1	1	
<i>Ischnura aurora</i>		2	4	2				1	2	8	11	32	
<i>Ischnura heterosticta</i>	7	3	5	1						6	12	29	5
<i>Xanthagrion erythroneurum</i>	4	1	3	2					1	1	5	16	
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	8	5	2	3					2	2	19	28	2
<i>Austroaeschna anacantha</i>	4	1	1									7	3
<i>Austroaeschna parvistigma</i>		1	1	1								4	2
<i>Austroaeschna unicornis</i>				1			1					1	
<i>Hemianax papuensis</i>	6	3	9	4				1	1	4	2	13	3
Family Petaluridae													
<i>Petalura hesperia</i>												1	
Family Gomphidae													
<i>Armogomphus armiger</i>	1										1	1	
<i>Austroepigomphus praeruptus</i>													1
<i>Austrogomphus australis</i>	1												
<i>Austrogomphus collaris</i>	8											29	1
<i>Austrogomphus cornutus</i>				1									
<i>Austrogomphus guerini</i>		1									1	8	1
<i>Zephyrogomphus lateralis</i>	2										2	10	
Family Synthemistidae													
<i>Archaeosynthemis leachii</i>	5	1	1							1	2	9	
<i>Archaeosynthemis occidentalis</i>	5											2	
<i>Austrosynthemis-cyanitincta</i>											2	3	
<i>Eusynthemis brevistyla</i>											2		
<i>Synthemis eustalacta</i>	2		1								3	16	1
Family Corduliidae													
<i>Hemicordulia australiae</i>	5		1									5	
<i>Hemicordulia tau</i>	6	2	6	15					2	13	26	20	
<i>Procordulia affinis</i>	2									3		3	2
<i>Procordulia jacksoniensis</i>	2									3	13	9	2
Family Libellulidae													

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austrothemis nigrescens</i>	7										7	10	8
<i>Crocothemis nigrifrons</i>	2		3									4	
<i>Diplacodes bipunctata</i>	4	1	5	3				2	8	18	6	28	1
<i>Diplacodes haematodes</i>		1		1						1	2	3	3
<i>Diplacodes melanopsis</i>											1	5	
<i>Nannophya dalei</i>	1										2	2	
<i>Nannophya occidentalis</i>												2	
<i>Orthetrum caledonicum</i>	5	4	1	1							2	13	1
<i>Pantala flavescens</i>		1	1	2									
<i>Tramea loewii</i>										1			
Genera incertae sedis													
<i>Hesperocordulia berthoudi</i>	1			1								2	
<i>Lathrocordulia metallica</i>											1	1	



Grassland - Hot (persistently dry)



Grassland - hot (persistently dry)

Species 52 Specimens 1463 Adults 939 Larvae 524

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes annulosus</i>	5		1						1				
<i>Austrolestes aridus</i>	1	1	6		2			2	6	6	4	2	
<i>Austrolestes insularis</i>											1		
<i>Austrolestes leda</i>	1		3		1	1			2	3	3		
<i>Lestes concinnus</i>										1			
Family Isostictidae													
<i>Rhadinosticta simplex</i>										2			
Family Platycnemidae													
<i>Nososticta liveringa</i>		1									2		
<i>Nososticta solida</i>										2			
Family Coenagrionidae													
<i>Argiocnemis argentea</i>	1				1			2			2		
<i>Argiocnemis kunjina</i>		3					1	2			3		
<i>Argiocnemis rubescens</i>							1			1			

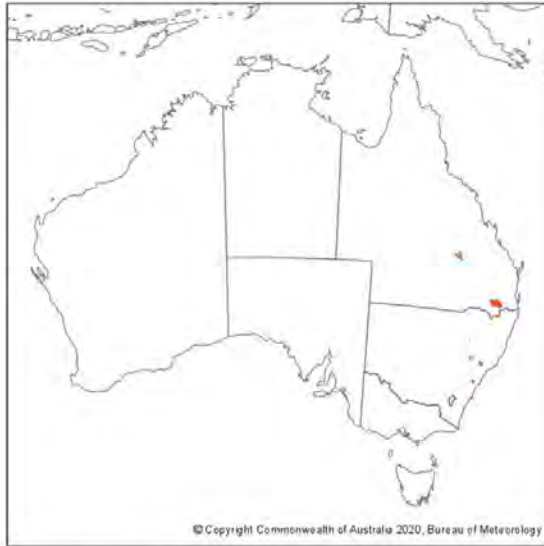
	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Austroagrion pindrina</i>								11			3		
<i>Austroagrion watsoni</i>					1				2	2	1		
<i>Ischnura aurora</i>	5	5	46	5	30	1	1	2	16	3	9	5	1
<i>Ischnura heterosticta</i>	1	4	3		1		1	2	3	2	1	1	
<i>Pseudagrion aureofrons</i>								15	3	7	2		
<i>Pseudagrion microcephalum</i>					2					1	2		
<i>Xanthagrion erythroneurum</i>	12	22	6	5	7		1	1	23	6	1	7	2
Family Aeshnidae													
<i>Austrogynacantha heterogena</i>	3		2	1						2	2	1	
<i>Hemianax papuensis</i>	5	6	13	10	7		2	3	5		2	3	2
Family Gomphidae													
<i>Antipodogomphus acolythus</i>										1			
<i>Austroepigomphus gordonii</i>											3		
<i>Austrogomphus amphicitus</i>											1		
<i>Austrogomphus australis</i>										10		1	
<i>Austrogomphus mjobergi</i>											2		
<i>Austrogomphus ochraceus</i>											1		
<i>Ictinogomphus dobsoni</i>											7		
Family Synthemistidae													
<i>Choristhemis flavoterminalata</i>											1		
<i>Eusynthemis nigra</i>													1
Family Corduliidae													
<i>Hemicordulia flava</i>	2											3	
<i>Hemicordulia intermedia</i>					1								
<i>Hemicordulia koomina</i>							3				2		
<i>Hemicordulia tau</i>	2	3	4	3	7		1	3	11	1	1		
Family Libellulidae													
<i>Crocothemis nigrifrons</i>			3	2						1	1		
<i>Diplacodes bipunctata</i>		2	35	15	38	1	1		18	4	8	1	2
<i>Diplacodes haematodes</i>	5	8	29	5	7		2	2	7	21	8	5	
<i>Nannophlebia injibandi</i>											1		
<i>Nannophya fenshami</i>		7											
<i>Orthetrum caledonicum</i>	11	9	28	12	17		1	4	9	11	7	7	
<i>Orthetrum migratum</i>	1	1	1	2	1						9		
<i>Pantala flavescens</i>		5	5		4			1	3	1			
<i>Potamarcha congener</i>										1			
<i>Rhodothemis lieftincki</i>											2		
<i>Rhyothemis graphiptera</i>		1								5	1		



The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Tholymis tillarga</i>		1											
<i>Tramea loewii</i>		2							5	3	2		
<i>Tramea stenoloba</i>	1	2	2	3							1	3	
<i>Zyxomma elgneri</i>											1		

Temperate - Moderately dry Winter (hot Summer)



Temperate - moderately dry winter (hot summer)

Species 43 Specimens 202 Adults Larvae

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Synlestidae													
<i>Episynlestes albicauda</i>			3	1							1	1	
<i>Synlestes selysi</i>				1		2							
<i>Synlestes weyersii</i>			18								4		
Family Lestidae													
<i>Austrolestes aridus</i>					1								
<i>Austrolestes leda</i>	1			1					1				
Family Argiolestidae													
<i>Austroargiolestes icteromelas</i>	1	2	9	6					2			5	2
Family Lestoideidae													
<i>Diphlebia coeruleascens</i>													1
<i>Diphlebia lestoides</i>												3	
<i>Diphlebia nymphoides</i>			3	1									
Family Coenagrionidae													
<i>Austroagrion watsoni</i>				14									



	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Ischnura aurora</i>				2									
<i>Ischnura heterosticta</i>			1	2						2			
<i>Pseudagrion aureofrons</i>				1									
<i>Xanthagrion erythroneurum</i>			3										
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>				2								1	
<i>Austroaeschna muelleri</i>			1									1	
<i>Austroaeschna parvistigma</i>		1											
<i>Austroaeschna pinheyi</i>			3	1									
<i>Austroaeschna pulchra</i>			5										
<i>Austrogynacantha heterogena</i>			1										
<i>Dendroaeschna conspersa</i>			3										
<i>Hemianax papuensis</i>	1	1							1				
Family Gomphidae													
<i>Austrogomphus amphiclitus</i>		1	4										
<i>Austrogomphus cornutus</i>		1											
<i>Austrogomphus ochraceus</i>										2			3
<i>Hemigomphus gouldii</i>			1								1	2	
<i>Hemigomphus heteroclytus</i>	1		6	2					1				
Family Synthemistidae													
<i>Choristhemis flavoterminalata</i>			3									1	2
<i>Eusynthemis aurolineata</i>		1											
<i>Eusynthemis deniseae</i>			1								1	1	
<i>Eusynthemis nigra</i>			1										
Family Corduliidae													
<i>Hemicordulia australiae</i>			1										
Family Libellulidae													
<i>Brachydiplax denticauda</i>			1										
<i>Crocothemis nigrifrons</i>				1									
<i>Diplacodes bipunctata</i>				1	3				1				1
<i>Diplacodes haematodes</i>			3	4		1			3			1	
<i>Nannodiplax rubra</i>											1		
<i>Nannophya dalei</i>		1											
<i>Orthetrum caledonicum</i>		1	3	6					1				1
<i>Orthetrum villosovittatum</i>			4	4									
<i>Zyxomma elgneri</i>													1

Grassland - Hot (Summer drought)



Grassland - hot (summer drought)

Species 41 Specimens 578 Adults 578 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes analis</i>						3							
<i>Austrolestes annulosus</i>	1		4	3						3	2		1
<i>Austrolestes aridus</i>				1				3	1	1			
<i>Austrolestes io</i>						1							
Family Argiolestidae													
<i>Miniargiolestes minimus</i>												1	
Family Isostictidae													
<i>Eurysticta coolawanyah</i>		8								1	3	2	
Family Platycnemidae													
<i>Nososticta pilbara</i>	8	2					1			2	9	2	
Family Coenagrionidae													
<i>Agriocnemis argentea</i>	1	2		4			5			2	7	1	
<i>Agriocnemis kunjina</i>	1	3					2			1	13	4	2
<i>Austroagrion pindrina</i>	2						7				6	3	

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Ischnura aurora</i>	3		1	3	1		1			4	3	3	1
<i>Ischnura heterosticta</i>	2	3	1	4			2		4		7		
<i>Pseudagrion aureofrons</i>		3					5				3		1
<i>Pseudagrion microcephalum</i>	6	17		2			4			7	8	2	
<i>Xanthagrion erythroneurum</i>				2	1				2	4	4	1	
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	1				1								
<i>Austrogynacantha heterogena</i>				1									
<i>Hemianax papuensis</i>	6	1	1		2	5		1	1	4	3	1	3
Family Gomphidae													
<i>Antipodogomphus hodgkini</i>	54	7		1									1
<i>Austroepigomphus gordoni</i>	3	2								1	6	2	
<i>Austrogomphus collaris</i>													1
<i>Austrogomphus mjobergi</i>	2	6		3				2		8	2		1
<i>Ictinogomphus dobsoni</i>	9	7		1	1					1	2	5	
Family Corduliidae													
<i>Hemicordulia australiae</i>									1				
<i>Hemicordulia intermedia</i>			1	1									
<i>Hemicordulia koomina</i>	1						1				1	1	
<i>Hemicordulia tau</i>	4		1	1	3		1		1	8			1
Family Libellulidae													
<i>Austrothemis nigrescens</i>											1		
<i>Crocothemis nigrifrons</i>	4	3					2		4	1	3	1	
<i>Diplacodes bipunctata</i>	3	1	4	4	7		3		3		1		
<i>Diplacodes haematodes</i>	5	1		3	3	3	3		2	2	7		2
<i>Macrodiplax cora</i>					2				2	2	1	1	
<i>Nannophlebia injibandi</i>	4	6									2		2
<i>Orthetrum caledonicum</i>	9	5	1		5		2		1	2	5	1	1
<i>Orthetrum migratum</i>	4	2		2	1		2			1	4	1	
<i>Pantala flavescens</i>	1		2	1	11								
<i>Rhodothemis lieftincki</i>	3	2					1				2	3	
<i>Rhyothemis graphiptera</i>	3	2								1	4		
<i>Tamea loewii</i>				1	2								
<i>Tamea stenoloba</i>	1	2									1	1	
<i>Zyxomma elgneri</i>		2			1					2	2		

Temperate - Distinctly dry (and hot) Summer



Temperate - distinctly dry (and hot) summer

Species 40 Specimens 925 Adults 925 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes aleison</i>		10		1							4	5	
<i>Austrolestes analis</i>	2	2	2		1		1		1	14	11	8	2
<i>Austrolestes annulosus</i>	5	1	3	1	2				3	2	9	15	2
<i>Austrolestes aridus</i>								1		1			
<i>Austrolestes io</i>			1						2	1	6	7	
Family Argiolestidae													
<i>Archiargiolestes parvulus</i>										4	8	11	
<i>Archiargiolestes pusillus</i>	2								5	9	24	25	
<i>Miniargiolestes minimus</i>	11	2	1								4	19	1
Family Coenagrionidae													
<i>Austroagrion cyane</i>				4						22	3	7	2
<i>Ischnura aurora</i>	2		2							1	2	2	1
<i>Ischnura heterosticta</i>		1	4						1		5	5	4
<i>Xanthagrion erythroneurum</i>		1	4	1						3	2	7	2

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	8	1	1	1						9	8	9	3
<i>Austroaeschna anacantha</i>	9	4	1	1	1			2	2		4	13	
<i>Austroaeschna parvistigma</i>	1											1	
<i>Austroaeschna unicornis</i>	1	1	1										
<i>Hemianax papuensis</i>	2	2	4	3		1			1		2	6	3
Family Petaluridae													
<i>Petalura hesperia</i>	2								1			6	
Family Gomphidae													
<i>Armagomphus armiger</i>	2				1					13	9	6	
<i>Austroepigomphus gordonii</i>								1					1
<i>Austrogomphus collaris</i>	4	1								8	14	27	3
<i>Austrogomphus guerini</i>							1				1	1	
<i>Zephyrogomphus lateralis</i>	2										4	11	
Family Synthemistidae													
<i>Archaeosynthemis leachii</i>	5	3										11	
<i>Archaeosynthemis occidentalis</i>	4	1	1						1		9	15	
<i>Archaeosynthemis spiniger</i>	2	1									1		
<i>Austrosynthemis-cyanitincta</i>	1				1			1		4	8	20	1
<i>Synthemis eustalacta</i>	4											1	
Family Corduliidae													
<i>Hemicordulia australiae</i>	2								1		3	5	1
<i>Hemicordulia tau</i>	1	2	5	8	3			4	6	6	16	6	2
<i>Procordulia affinis</i>										5	8		1
Family Libellulidae													
<i>Austrothemis nigrescens</i>	5	3									13	7	
<i>Diplacodes bipunctata</i>	2	2						1	6		6	6	2
<i>Diplacodes haematodes</i>	5		2	2	1					8	5	5	4
<i>Nannophya occidentalis</i>									2	1	1	2	
<i>Orthetrum caledonicum</i>	6	1	2	4						2	23	12	3
<i>Pantala flavescens</i>			1										
<i>Tamea stenoloba</i>		1	1					1			3	1	1
Genera incertae sedis													
<i>Hesperocordulia berthoudi</i>	1	1								2	9	8	
<i>Lathrocordulia metallica</i>					1						1	4	

Grassland - Warm (persistently dry)



Grassland - warm (persistently dry)

Species 38 Specimens 1204 Adults 612 Larvae 592

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes analis</i>											3	1	1
<i>Austrolestes annulosus</i>	10	4	3	2		1		1		5	3	8	2
<i>Austrolestes aridus</i>	1				1				1	5		1	
<i>Austrolestes leda</i>	1		1		1			3			1	4	1
<i>Austrolestes psyche</i>			1							1			2
Family Lestoideidae													
<i>Diphlebia nymphoides</i>										1			
Family Isostictidae													
<i>Rhadinosticta simplex</i>		2											
Family Platycnemidae													
<i>Nososticta solida</i>		7									1	2	
Family Coenagrionidae													
<i>Austroagrion cyane</i>				1								3	
<i>Austroagrion watsoni</i>										1			



The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Ischnura aurora</i>	5	13	2	4		1	1	2	2	9	3	5	1
<i>Ischnura heterosticta</i>	11	13	2	5	1				1	3	2	3	1
<i>Pseudagrion aureofrons</i>		8								1		2	
<i>Xanthagrion erythroneurum</i>	10	32	8	6	3	1				12	5	27	3
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>		2	1						1	1	2	1	
<i>Austroaeschna multipunctata</i>		1										1	
<i>Austroaeschna parvistigma</i>		1		3							1	3	
<i>Austroaeschna unicornis</i>		1											
<i>Hemianax papuensis</i>	2	3	9		1			2	3	2	4	5	3
<i>Telephlebia brevicauda</i>		1											
Family Gomphidae													
<i>Austroepigomphus praeruptus</i>													1
<i>Austrogomphus angelorum</i>											2	2	
<i>Austrogomphus australis</i>	5	3	4								6	22	1
Family Synthemistidae													
<i>Eusynthemis brevistyla</i>		1											
<i>Synthemis eustalacta</i>		1											
Family Corduliidae													
<i>Hemicordulia australiae</i>											1		
<i>Hemicordulia tau</i>	2	5	8	6	2	1			5	10	10	5	4
Family Libellulidae													
<i>Austrothemis nigrescens</i>	1												
<i>Crocothemis nigrifrons</i>	1												
<i>Diplacodes bipunctata</i>	11	16	7	5	4	1	2		5	12	7	6	1
<i>Diplacodes haematodes</i>		6			1	1			1	2		3	1
<i>Orthetrum caledonicum</i>	15	18	4	1	1		1		1	10	3	2	3
<i>Pantala flavescens</i>			2										
<i>Tramea loewii</i>			1										

Subtropical - Distinctly dry summer



Subtropical - distinctly dry summer

Species 35 Specimens 1086 Adults 1086 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes aleison</i>								2	1	2		2	
<i>Austrolestes analis</i>	7	4	2	3		1			6	30	4	10	1
<i>Austrolestes annulosus</i>	7	2		2	2	1	1		8	8	12	7	3
<i>Austrolestes aridus</i>								1	2	3			
<i>Austrolestes io</i>	3		1	2		3	1	3	3	11		2	
Family Argiolestidae													
<i>Archiargiolestes parvulus</i>										2	22	1	
<i>Archiargiolestes pusillus</i>	1								3	20	24	7	
<i>Miniargiolestes minimus</i>	4	1		1							12	5	
Family Coenagrionidae													
<i>Austroagrion cyane</i>	1			1					6	7	4	4	4
<i>Ischnura aurora</i>	4	1	1			1			1	9	1	6	
<i>Ischnura heterosticta</i>									2				
<i>Xanthagrion erythroneurum</i>	7	2	2	2					2	2	1	15	4

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>	10	5	3	1	1	2		1	5	8	9	4	1
<i>Austroaeschna anacantha</i>	7	1	2		1						4	4	
<i>Austrogynacantha heterogena</i>	1												
<i>Hemianax papuensis</i>	10	8	4	10	2	11	1	1	1	4	5	14	2
Family Petaluridae													
<i>Petalura hesperia</i>	4										1	30	
Family Gomphidae													
<i>Austrogomphus collaris</i>	6	1			1					25	19	12	9
<i>Zephyrogomphus lateralis</i>	4										2	5	
Family Synthemistidae													
<i>Archaeosynthemis leachii</i>	3										3	4	
<i>Archaeosynthemis occidentalis</i>	2									1	10	11	
<i>Austrosynthemis cyanitincta</i>											5	2	
Family Corduliidae													
<i>Hemicordulia australiae</i>	2	1	6	1	8				1	8	7	4	
<i>Hemicordulia tau</i>	7	4	2	8	12	12		2	13	18	9	11	1
<i>Procordulia affinis</i>	1								7	4	2	1	
Family Libellulidae													
<i>Austrothemis nigrescens</i>	9		2	1				1		8	12	22	1
<i>Diplacodes bipunctata</i>	10	10	4	2	2			1	1	15	11	21	
<i>Diplacodes haematodes</i>	3	3	2						2	3	3	2	7
<i>Nannophya occidentalis</i>			1							1	1		
<i>Orthetrum caledonicum</i>	6	7	7	2					3	4	11	32	8
<i>Pantala flavescens</i>			5										
<i>Tamea loewii</i>			1										
<i>Tamea stenoloba</i>	1	1	5							1	3	4	
Genera incertae sedis													
<i>Hesperocordulia berthoudi</i>	2		1							1	6		
<i>Lathrocordulia metallica</i>												1	

Desert - Hot (persistently dry)



Desert - hot (persistently dry)

Species 28 Specimens 448 Adults 403 Larvae 45

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes annulosus</i>	1			1		1			1	1	2		
<i>Austrolestes aridus</i>		1	1				2	2	4	4	6		
<i>Austrolestes leda</i>							1		1				
Family Isostictidae													
<i>Eurysticta coolawanyah</i>												1	
Family Coenagrionidae													
<i>Agriocnemis argentea</i>								1					
<i>Agriocnemis kunjina</i>												1	
<i>Agriocnemis rubescens</i>										1			
<i>Austroagrion cyane</i>			1										
<i>Austroagrion pindrina</i>												1	
<i>Austrocnemis maccullochi</i>										2			
<i>Ischnura aurora</i>	3		1		1			1		14	12		
<i>Ischnura heterosticta</i>		3			3				7	4	3	3	1

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
<i>Pseudagrion aureofrons</i>										1		2	
<i>Xanthagrion erythroneurum</i>	3	2	2			1		1	4	11	12		2
Family Aeshnidae													
<i>Adversaeschna brevistyla</i>						1			1				
<i>Austrogynacantha heterogena</i>					1								
<i>Hemianax papuensis</i>		3	7	3	7		3	1	5	1	9	1	4
Family Gomphidae													
<i>Austroepigomphus gordonii</i>									2				
<i>Austrogomphus australis</i>										3	2	2	1
Family Corduliidae													
<i>Hemicordulia flava</i>		1											
<i>Hemicordulia tau</i>	4	3	7	8	7		2		5	2	4	5	6
Family Libellulidae													
<i>Diplacodes bipunctata</i>		5	7	1	15	5		8	1	2	5	4	2
<i>Diplacodes haematodes</i>		10	2		3	1	1		9	2	5		1
<i>Macrodiplax cora</i>					1								
<i>Orthetrum caledonicum</i>		7	4	5	3	1	1	1	6	3	20	3	1
<i>Orthetrum sabina</i>					1								
<i>Pantala flavescens</i>		3	6		1								
<i>Tramea loewii</i>		1						1					

Temperate - No dry season (cool Summer)



Temperate - no dry season (cool summer)

Species 23 Specimens 206 Adults 206 Larvae 0

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Lestidae													
<i>Austrolestes analis</i>		2											
<i>Austrolestes annulosus</i>	2	2	1									1	
<i>Austrolestes cingulatus</i>	4	5										9	
<i>Austrolestes psyche</i>	7	11										6	
Family Argiolestidae													
<i>Austroargiolestes calcaris</i>	1												
<i>Griseargiolestes intermedius</i>	2												
Family Coenagrionidae													
<i>Ausrocoenagrion lyelli</i>												1	
<i>Ischnura aurora</i>		2											
<i>Ischnura heterosticta</i>	1												
Family Austropetaliidae													
<i>Archipetalia auriculata</i>	4											5	2

The Distribution of Australian Dragonflies

	J	F	M	A	M	J	J	A	S	O	N	D	n.d.
Family Aeshnidae													
<i>Austroaeschna flavomaculata</i>	4	1											
<i>Austroaeschna hardyi</i>	17	11											
<i>Austroaeschna inermis</i>	4												
<i>Austroaeschna parvistigma</i>	2	17	1								1		
<i>Austroaeschna tasmanica</i>	1	4	1							1			
<i>Telephlebia brevicauda</i>	2												
Family Gomphidae													
<i>Austrogomphus guerini</i>	1									1			
Family Synthemistidae													
<i>Eusynthemis guttata</i>	3												
<i>Syn. gomphomacromioides</i>	7	5											1
<i>Synthemis eustalacta</i>	2												
<i>Synthemis tasmanica</i>	12	27	1								2	2	
Family Corduliidae													
<i>Hemicordulia tau</i>		2	1								2		
<i>Procordulia jacksoniensis</i>	1	1											