

Images of Australian Odonata Wings

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ABSTRACT. A recently finished project has created an openly accessible, high-resolution, photographic library of wings of Australian dragonflies and damselflies, order Odonata. The library is an open resource for identification and research. Both male and female wings of 318 species of dragonfly and damselfly have been photographed with a specialist set-up using identified museum collection material. In general, both wings were removed from the insect body to produce an image with a minimum of visual artefacts. Each resulting image shows a pair of right wings, a scale, an identifying taxonomic name and sex.

Introduction

Historically, there have been no readily accessible, good quality images of all Australian dragonflies and damselflies (Odonata), for identification purposes. Comparative morphology is arguably the most informative first step in any dependable identification process but it relies on high resolution, detailed imagery of diagnostically important structures across all known species. Ideally such imagery should be of the most typical representatives of a species (type specimens) or specimens that are expertly identified, and every image standardized in such a way that humans or human-assisted machines can consistently detect and process similarities and differences. It is possible that certain structures, thought to be diagnostically uninformative, are found to be much more useful when all species of a large group are assembled in the same orientation, format, and scale.

In the past, Odonata specimens in some of Australia's largest insect collections have been photographed at different times using a range of methods and images have been made available online. Such resources are not specifically images of wings or of any other particular structure. For example, the Australian National Insect Collection has imaged whole drawers of insect specimens, including dragonflies and damselflies (see Mantle *et al.*, 2012). Another example, *DigiVol*, a volunteer program developed by the Australian

Museum, has been generating images of whole specimens together with their label-data to streamline registration and cataloguing (see *DigiVol*, 2020).

Such images add intellectual value to the specimens and to the collections that accommodate them ultimately leading to a better understanding of the Australian Odonata fauna. Intellectual value is significantly increased in direct relationship to confidence of identification—the more confident the identification, the more valuable the data.

The popularity of image sharing sites such as *Flickr*, and citizen science observation sharing sites such as *iNaturalist*, has resulted in a significant number of high-quality images of live dragonflies and damselflies being made freely available. In 2020, *iNaturalist* held about 30,000 Australian observations of Odonata, 88% at *Research Grade* (identification agreed by two or more people) (*iNaturalist*, 2020); *Flickr* held about 20,000 images tagged as a dragonfly or damselfly in Australia (*Flickr*, 2020).

Wing morphology, especially venation, is not only diagnostically significant in taxonomy (e.g., Tillyard, 1917), but is used for demonstrating species variation (e.g., Stewart, 1982), for field identification (e.g., Theischinger, Hawking & Orr, 2021), for understanding wing function and evolution (e.g., Salcedo *et al.*, 2019), and other studies (e.g., phylogeny, Trueman, 2001). This project has created a resource for identification and research based on high-quality wing photographs.

Keywords: Odonata; Insecta; Dragonfly; Damselfly; morphology; wing venation

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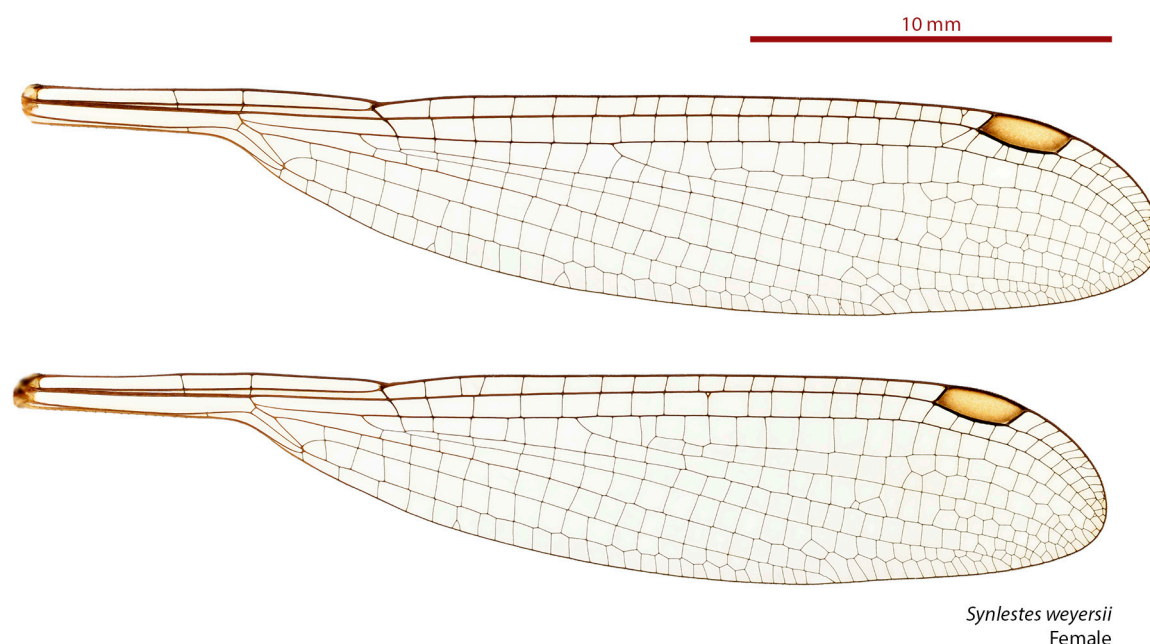


Figure 1. Image example: wings of a female *Synlestes weyersii*, a damselfly. This image and others are available in high-resolution, about 9000 × 5000 pixels (Tann, 2020a–e).

From 2013 to 2015 wings of Australian dragonflies and damselflies were photographed at the Australian Museum in Sydney, Australia. In that time, 318 of the approximately 324 known species of Australian dragonflies and damselflies were photographed and, with few exceptions, images were made of both male and female wings. Some species were not able to be photographed, either because of restricted access, rarity, or physical condition; for some species only one sex is known. This project drew from identified and vouchered specimens, either pinned or in envelopes, held at the Australian Museum, supplemented by specimens from four other Australian institutions: Queensland Museum in Brisbane, Western Australian Museum in Perth, Museum and Art Gallery of the Northern Territory in Darwin and Australian National Insect Collection in Canberra.

Materials and method

In order to create high resolution and standardized images, wings were removed from most specimens so they could be photographed without artefacts (see *Why remove the wings?* below). Dragonflies and damselflies specimens held in envelopes were generally cleaner, easier to work with, and required less reconstruction after photographing compared to pinned specimens.

Technique

A specimen in poor condition and with wings intact was selected. Many dragonfly and damselfly specimens in collections have broken bodies, separated abdomens or heads. Using this destructive technique—removing wings—from an already-damaged specimen could be justified because it has contributed intellectual value from a mixed series of good and broken specimens. All specimens were registered, with few exceptions, and expert identification of each specimen was critical. Only one specimen at a time was processed before being returned to its drawer to avoid a mix-up. A whole-of-body photograph of the original

specimen with all labels was made before further work, for reference and quality control; images of each reference specimen, including associated labels, have been published online (Tann, 2020e) and are freely accessible and expected to persist into the future. Both right wings were surgically removed microscopically using fine-pointed forceps. Occasionally, due to availability, left wings were used and their images artificially flipped (see *Abnormal specimens* below). Both wings were photographed independently using a good quality camera and customized rig. Wings and bodies were returned to their envelope. The wings of pinned specimens were glued to paper points and re-joined with their bodies on the same pin. Occasionally wings were photographed while still attached to the insect body; this was a sub-optimal method, used for rare and special specimens (see *Visual artefacts* below).

Image capture equipment

The following photographic equipment was used (with specimens staged on an inverted glass petri dish: 200 mm diameter, 37 mm high):

Camera.....	Nikon D800E
Lens.....	Nikon AF-S Micro NIKKOR 60 mm f/2.8G ED
Ring flash.....	Metz Mecablitz 15 MS-1 Macro Ringlight Digital Flash
Capture software...	Nikon Camera Control Pro 2
Copy stand	Kaiser 5512 RSX

Camera Control Pro 2 software controlled the camera settings and shutter. The ring flash was set to trigger off the flash of the main camera. The software also captured photographic images directly to the controlling desktop computer. Forewings and hindwings were photographed separately and, during post-processing, combined in a single image of both wings.

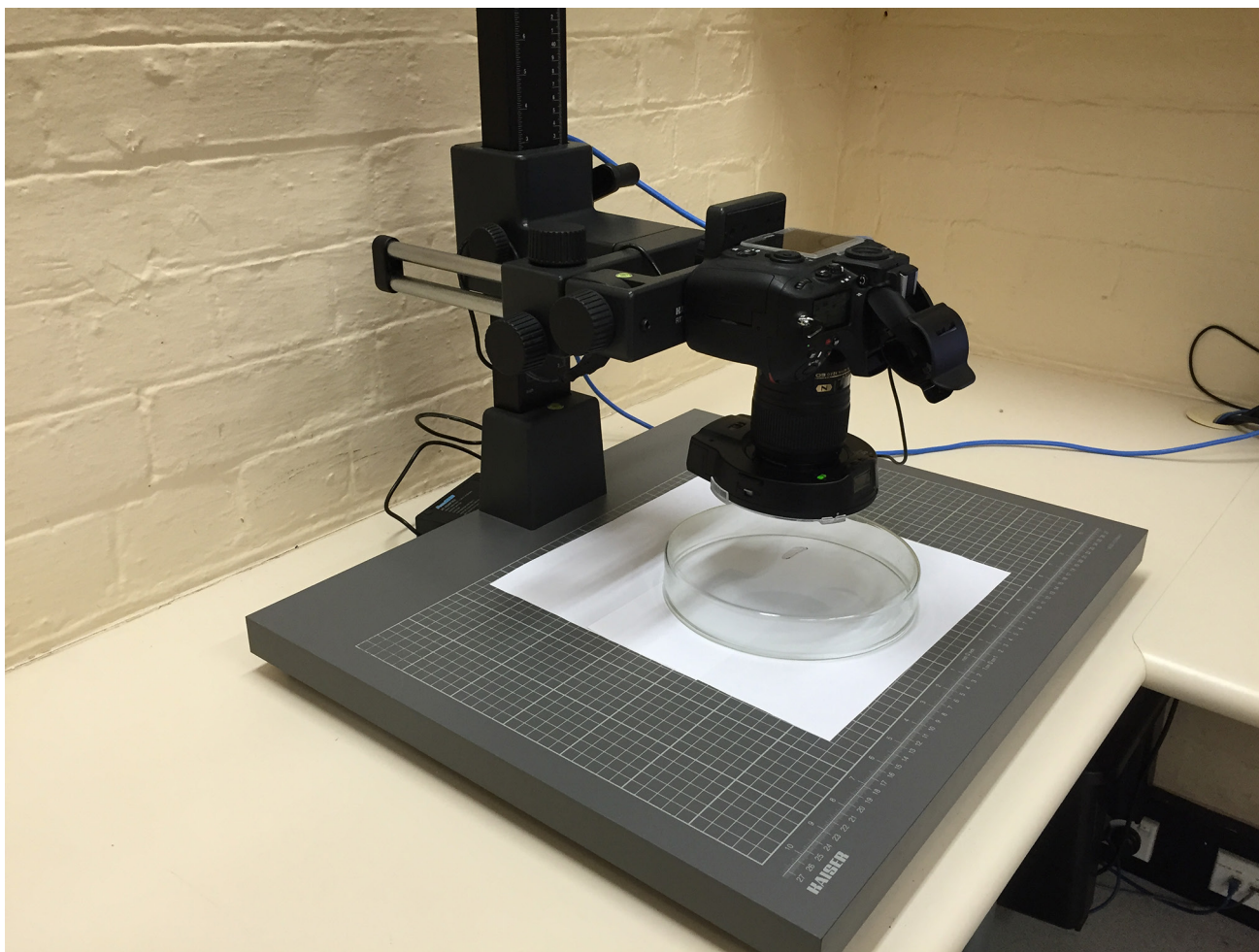


Figure 2. Photographic set-up for dragonfly and damselfly wings optimized to produce an image without shadows or visual artefacts.

Equipment layout

The photographic set-up was optimized to consistently capture high-resolution images of wings, minimizing visual artefacts. Dragonfly and damselfly wings are usually transparent, sometimes with colour, and have a length ranging from c. 15 mm for the smallest damselfly to c. 75 mm for the largest dragonfly.

The camera was mounted vertically above the specimen pointing down. A copy-stand-mount allowed vertical adjustment of the height of the camera which was consistent for almost all dragonfly and damselfly wings. Some very large dragonflies with long wings required a higher camera position.

A large petri dish was found to be an ideal photographic platform for minimizing visual artefacts. It was used upside down—the mouth of the petri dish was face down and its flat glass base was off the copy stand platform supporting a wing specimen at 37 mm above a clean white sheet of paper. The selected height between object and background produced an image with even lighting and without obvious shadow.

Equipment set-up for photographing specimens where wings could not be removed is discussed below (see *Visual artefacts* below).

Camera settings

Exposure time 1/60 second
 f-number f/18
 ISO speed rating 100 ASA
 Flash..... ON
 Image size 7360 × 4912 pixel
 Image compression highest quality JPEG
 Colour palette..... 24 bits per pixel

The compression format, JPEG, was chosen to give good results without visibly compromising image quality. Without compression, file sizes were overly large and consequently unwieldy to store, transfer and manipulate.

Object position

Height of wing above white background.... 37 mm
 Front of lens to object distance..... 45 mm
 Each wing was photographed separately.



Figure 3. Photograph of a single wing. Original photo of the forewing of a female *Austrogomphus bifurcatus* as recorded using the above camera rig. Note there are no shadows and a reasonably even near-white background. This photo has been reduced in size for publication.

Image post-processing

Photoshop graphics editor, published by Adobe®, was used for generating a standardized image of both right wings, visual removal of dust, and visual repair of small areas of wing damage.

Lightroom (image organization and manipulation software published by Adobe®) was used for managing photographs, adding metadata, and preparing a final version of each image.

ExifTool (open-source software used for reading, writing and manipulating image metadata—Harvey, 2020) was used for adding georeferences and other Exif metadata (a standard that specifies formats for image metadata used by digital cameras).

Final image

Each final image shows a pair of wings on a white background with a scale bar and identification.

- Size 9008 × 5067 pixel (ratio 16:9)
- Colour palette ... 24 bits per pixel
- Scale Most dragonfly and damselfly wing images were photographed at a resolution of 1357 pixels per centimetre, or about 7 µm per pixel. This scale was a product of the object to camera distance that was selected early in the project. Some larger wings were photographed at a resolution of 1000 pixels per centimetre, or about 10 µm per pixel.

For greater usability, two sets of images were created: one set with as-shot resolution of 1357/1000 pixels per centimetre;¹ a second set where final wing image size was adjusted for best fit to one of six fixed resolutions.² For each image a scale bar was added.

Table 1. Image display resolution. One set of images was scaled to fit one of six resolution bands.

resolution pixels per centimetre	horizontal and vertical scale	colour of scale bar
1000	73.7%	blue
1357	100%	black
2000	147.4%	blue
2500	184.2%	brown
4000	294.8%	blue
5000	368.5%	blue

There was no standard way to embed the image scale into Exif metadata. Exif parameters such as *XResolution* and *YResolution*, even if initially set correctly, were able to be manipulated subsequently and misleadingly by viewing software.

To ensure final wing images maintained their correct identification, the taxonomic name, according to the *Australian Faunal Directory*,³ and sex, male or female, were added to the lower right corner of each image. A filename was allocated to readily convey species, sex and scale. For example: “*Austroaeschna hardyi* female 1357.jpg”.

Abnormal specimens

Occasionally undamaged right wings were not available and left wings were used as substitutes. When this occurred a mirror image of the left wing was created in software so as to appear like a right wing. This modification was noted in the image metadata.



Figure 4. Image detail clearly showing saw-tooth ridges on the leading edge of the forewing of a male Green Emperor, *Anax gibbosulus*. Each ridge is about 150 μm long. The structure in the upper central part of this photo is the nodus. This wing was photographed at a resolution of 1357 pixels per centimetre. Many dragonfly and damselflies have microstructure on their wing veins clearly visible in this set of high-resolution photographs.

Results

Presentation of images

All images have been published online on open access platforms:

- 1 On *figshare*, images can be viewed individually or downloaded as a series (Tann, 2020a–e).
- 2 On *Flickr*, each wing image is accompanied by a caption. Other metadata for each image, such as specimen location on a map, tags, comments, and a link to the collection data, are shown on each page (Tann, 2017a,b).
- 3 On *Wikimedia Commons*. *Wikipedia* in turn displays wing images on the content page of each Australian dragonfly and damselfly (see, for example, Wikipedia, 2020).
- 4 On the *Atlas of Living Australia* as a Dataset Resource. Wing images and specimen images are readily viewable as a collection (Tann, 2020f).

Each image is licensed under a Creative Commons Attribution 4.0 International License (CC BY 4.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Image sets are presented as two sub-sets, Anisoptera or dragonflies proper, and Zygoptera, or damselflies.

Metadata

Images hold extensive embedded metadata:

- 1 Metadata associated with the camera and photograph—embedded as Exif metadata
- 2 Metadata about the specimen—embedded as IPTC metadata⁴
 - Registration number
 - Institution
 - Taxonomic name, according to the Australian Faunal Directory (2020)
 - Georeference, extracted from any occurrence data held by the *Atlas of Living Australia*⁵
 - Sex
- 3 Title and caption metadata—embedded as IPTC metadata. Caption information includes common name, taxonomic name, collection and specimen registration number.
- 4 Additional metadata enabling image-filtering are embedded as keywords:
 - Sex
 - Country
 - Taxonomy
 - Image descriptors

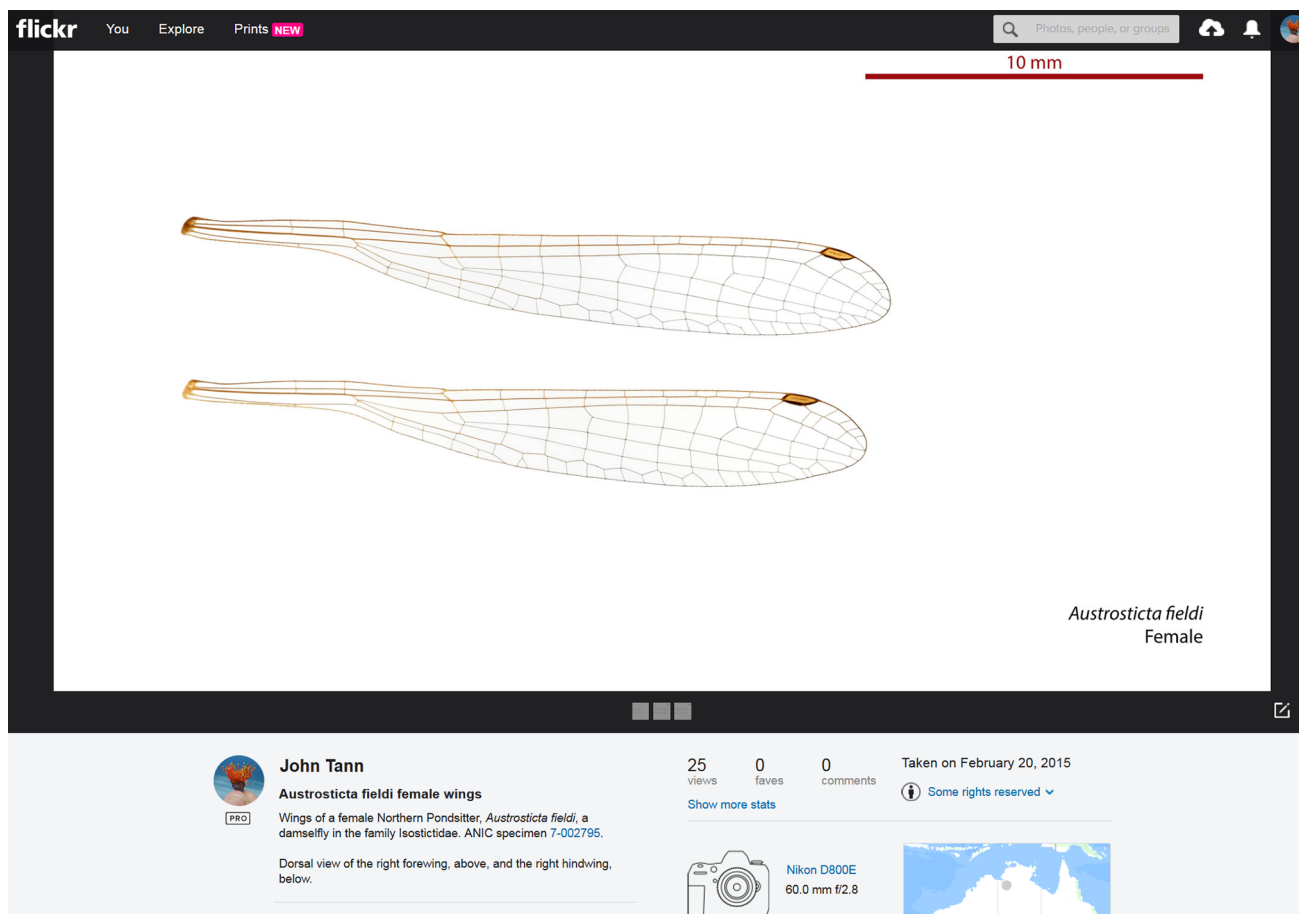


Figure 5. Example of a Flickr image with caption. The registration number link takes the user to its occurrence record on the *Atlas of Living Australia*.

Links

Due to the efforts of museum staff in the past, occurrence data for a large number of museum dragonfly and damselfly specimens in Australia is publicly accessible through the *Atlas of Living Australia (ALA)*.⁶ *ALA* occurrence records for specimens used in this project are linked in the Index (Tann, 2020e, see also Appendix 3 and 4).

On the *figshare* platform male and female wing images of each species are published with a DOI, a *digital object identifier*. A DOI is also a *persistent object identifier* offering a degree of permanence⁷. Full-size images of wings and their reference specimens on *figshare* are linked in a large published table: the *Index* (Tann, 2020e).

Discussion

Why remove the wings?

In order to capture consistently high-quality images, in a single, shallow, plane of view, a wing needed to be photographed separated from its body. Having an insect body, another wing, or a leg obstructing the field of view or casting shadow are undesirable visible artefacts. Wings are preserved with their relevant specimen after photography.

Visual artefacts

For those pinned specimens which had wings that could not be removed, a temporary rig was made to minimize visual interference.

The effect of the body shadow could be reduced by changing the object height above its background. However, with increasing height the white background changed to grey, with a consequent loss of image fidelity and consistency.

Insect specimens in museums are stiff, brittle and fragile; their long-term preservation, intact and undamaged, is of obvious and great importance. On rare occasions, however, when a surplus of conspecific specimens are at hand, or when the significance of the knowledge likely to be gained is great, will a curator allow dissection or manipulation of a specimen. Such procedures are conditional upon every effort being made to secure all removed fragments or body parts so that they may be preserved with the host body in collections. The technique of wing analyses by high-resolution photography results in the removal, but not the loss, of wings.

Odonata legs, heads and abdomens break easily. Wings cannot be bent and legs cannot be pushed aside without damage.

Wing flatness

Dragonfly and damselfly wings are not absolutely flat. Wings with irregular, undulating surfaces were sandwiched between two glass plates a few millimetres apart to achieve a more-or-less flat plane. This technique allowed uneven features to be imaged without crushing the wing. This method was, however, impractical on those occasions when wings could not be removed from their bodies.

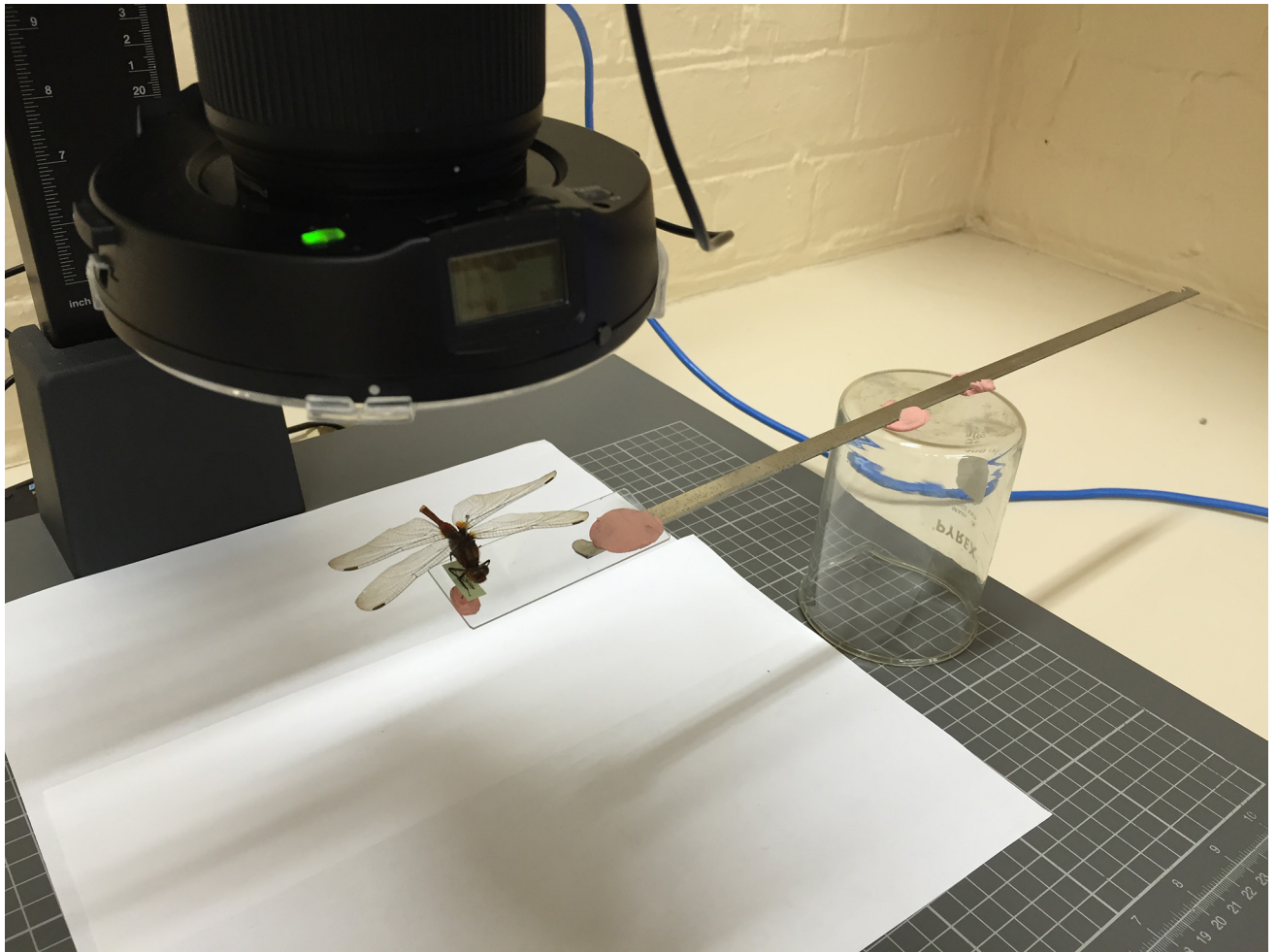


Figure 6. Photographic set-up for dragonfly and damselfly wings where the wings remained attached to their pinned body. The rig itself did not create obvious visual artefacts.

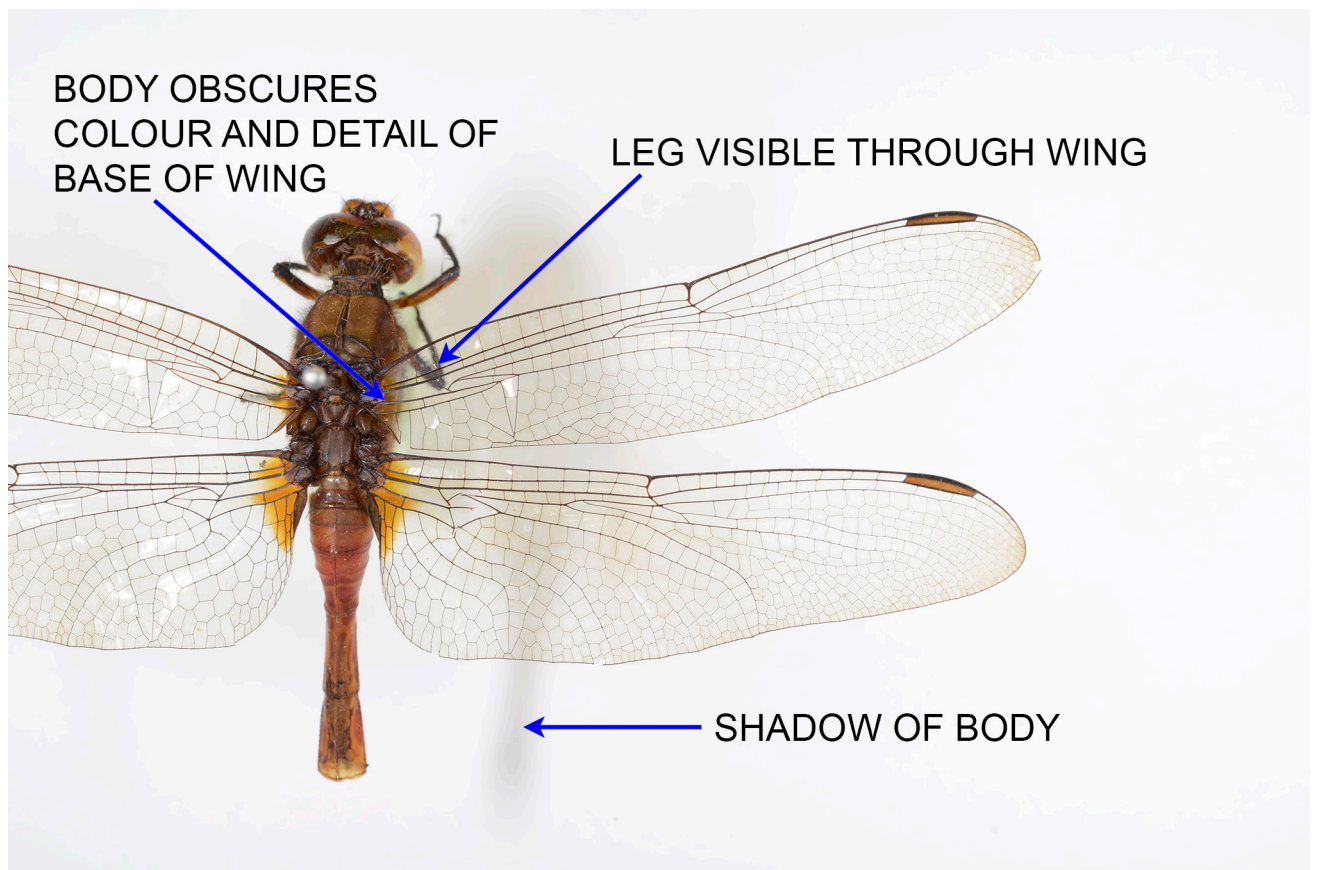


Figure 7. Photo showing three artefacts when a wing remains attached to its body.



Figure 8. Male *Austrophlebia subcostalis*, a large dragonfly with wings that are not flat. Details are lost when photographing unflattened wings. Note also for this specimen that the two right wings do not lie in the same plane; see section: *Overlapping and out-of-plane wings*.

Overlapping and out-of-plane wings

Dragonfly and damselfly specimens are sometimes pinned with their wings overlapping. For those specimens, a clear wing photo was impossible.

Some dragonflies and damselflies had been pinned with their wings lying in different planes (see, for example, the photo of *Austrophlebia subcostalis*, Fig. 8). To reproduce a wing shape accurately, a photograph was always taken orthogonal to the wing plane. Unfortunately, out-of-plane wings would sometimes overlap in a photograph, making the resulting photograph unacceptable for this project.

Photoshop as a surrogate for a good photograph

Photoshop, or other image processing software, could be used to improve substandard images. With effort, some shadowing could be lightened, some artefacts could be covered over, and some flaws repaired. However, Photoshop had difficulty when colours were similar, such as distinguishing wing veins from body colour, and could

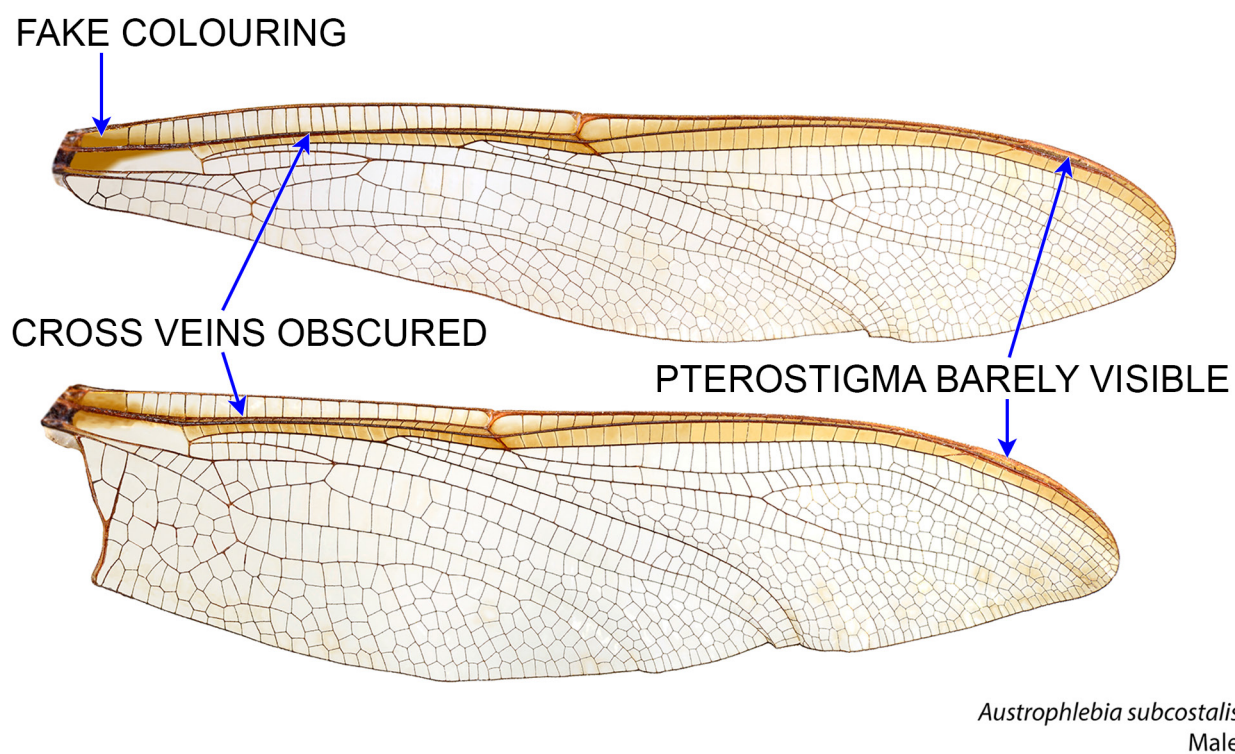
not, of course, resurrect features hidden by another shape.

It was important that the complete dataset of dragonfly and damselfly wing images offered here be accurate and faithful reproductions of real wings. As such this image-dataset provides the basis of a detailed image-analysis research project. Using Photoshop to *fill in the blanks*, and estimate colours, shades, and subtle features was considered to be not good practice. In the course of this project about 10 specimens were photographed with their wings attached. Due to the extra difficulties of working with attached wings, each specimen took about half a day to photograph and two full days processing with Photoshop to produce a less-than-optimal result. Early in this project it became clear that in order to produce a satisfactory photograph, wherever possible wings would need to be removed.

Nonetheless all wing images were manipulated to a greater or lesser extent by *Photoshop* and *Lightroom*. *Lightroom*, being the last software to alter the image, is mentioned in the image metadata.



Figure 9. Damselfly pinned with its wings overlapping.



Austrophlebia subcostalis
Male

Figure 10. Processed image of wings photographed while still attached to a body. Parts of each wing were obscured. Extensive Photoshop treatment produced only a second-class image and introduced artefacts of shade and colour not apparent in the specimen.

ACKNOWLEDGEMENTS. This project was undertaken in the Entomology department of the Australian Museum with access to its extensive collection of Australian Odonata. Photographic equipment was provided through the DigiVol program at the museum thanks to Paul Flemons and Rhiannon Stephens. Entomology staff were always helpful, and a big appreciation goes to Jackie Recsei, Russell Cox, Derek Smith and Shane McEvey for their advice, assistance and support.

Other museums and collections contributed specimens to this project. Thanks should go to Beth Mantle, Nicole Fisher and David Yeates at Australian National Insect Collection, Nik Tartanic at Western Australian Museum, Susan Wright at Queensland Museum and Gavin Dally at Museum and Art Gallery of the Northern Territory.

Endnotes

- 1 Complete set of wing images reduced in size for publication in Appendixes 1 and 2, also available at full size on *figshare* (Tann, 2020c,d)
- 2 Complete set of scaled wing images available on *figshare* (Tann, 2020a,b)
- 3 The *Australian Faunal Directory*, *AFD*, is a catalogue of taxonomic information about all animal species known to occur in Australia. It includes the nomenclature and taxonomy of species including valid names (AFD, 2020).
- 4 An IPTC header follows a metadata standard for images. It has been defined by the International Press Telecommunications Council, a global standards body for news media.
- 5 The *Atlas of Living Australia (ALA)* is an online repository for sharing information about Australian plants and animals.
- 6 In 2020 the *Atlas of Living Australia* held about 40,000 museum records of Odonata (*ALA*, 2020).
- 7 A Digital Object Identifier (DOI) is a persistent identifier for use on digital networks. It has a degree of permanence and promotes better interoperability across science now and into the future (DOI, 2020).

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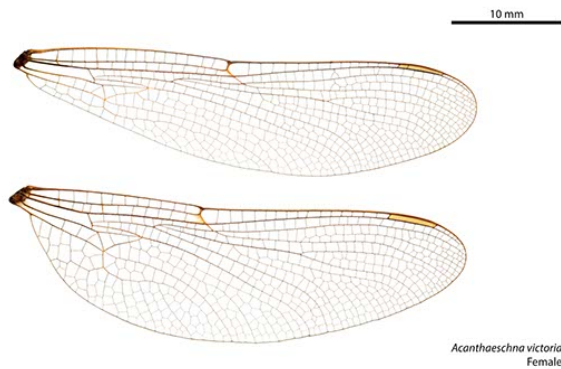
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Appendix 1—Anisoptera wings

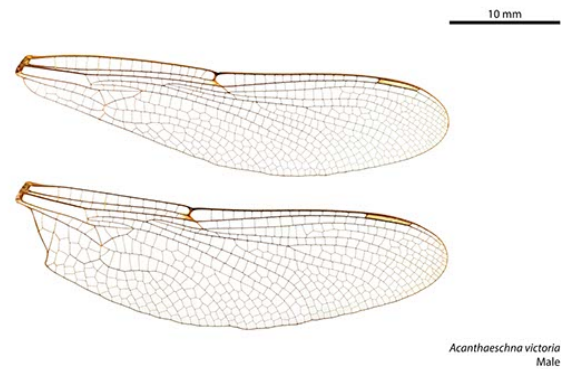
Photographs of female and male wings of 207 species of Australian dragonfly (Anisoptera). Each image shows a pair of right wings, a scale, a taxonomic name and sex. A link is provided in Appendix 3 to a high-resolution photograph for each species.

Images presented below are low resolution “thumbnails” providing a visual ready-reckoner and quick guide to more detailed imagery. The entire photographic library at highest resolution is openly accessible to view or download from *figshare* as either individual images or as a complete set of Australian Odonata wing images (Tann, 2020a–d).

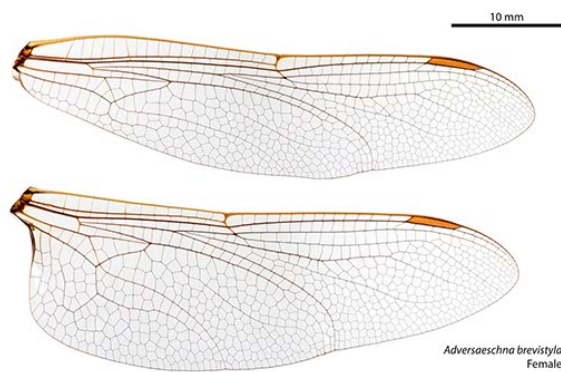
With few exceptions all images are presented here at a consistent fixed scale for ready comparison between species. However, in order to present both the smallest and largest wings conveniently, the wings of six species of the largest Australian dragonflies are shown at a reduced scale, recognizable by a blue scale bar.



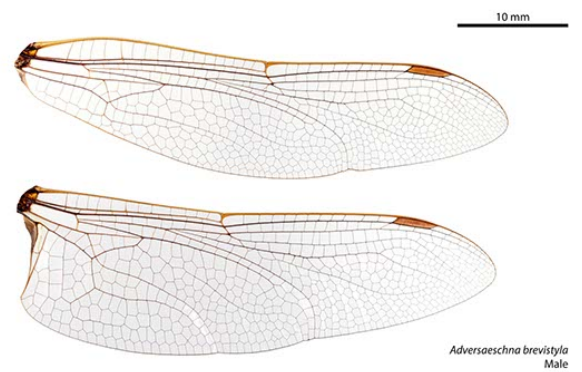
Acanthaeschna victoria female



Acanthaeschna victoria male



Adversaeschna brevistyla female



Adversaeschna brevistyla male



Aethriamanta circumsignata female



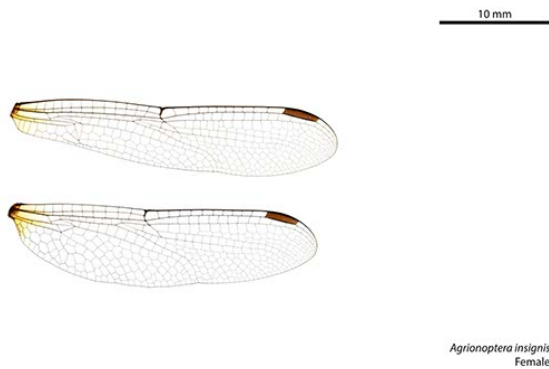
Aethriamanta circumsignata male



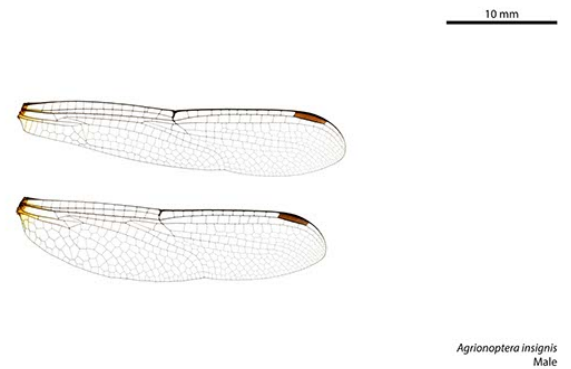
Aethriamanta nymphaeae female



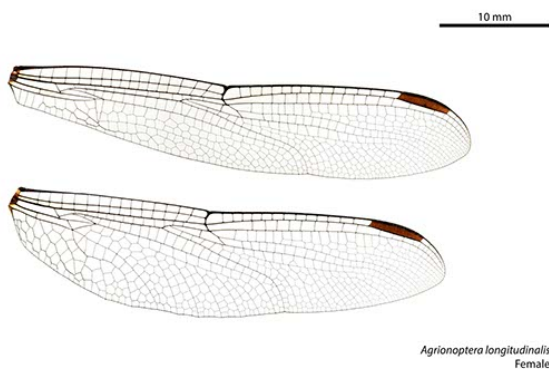
Aethriamanta nymphaeae male



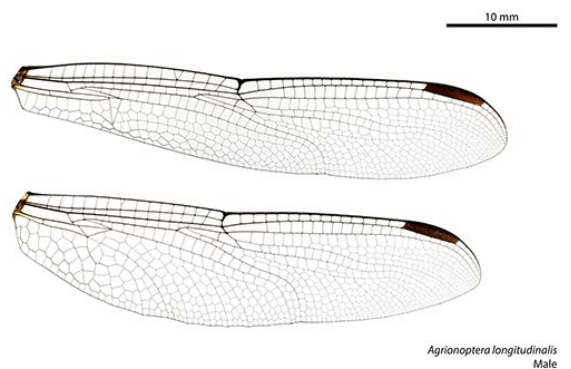
Agrionoptera insignis female



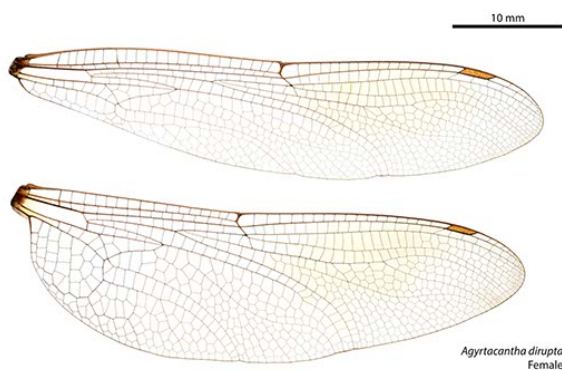
Agrionoptera insignis male



Agrionoptera longitudinalis female

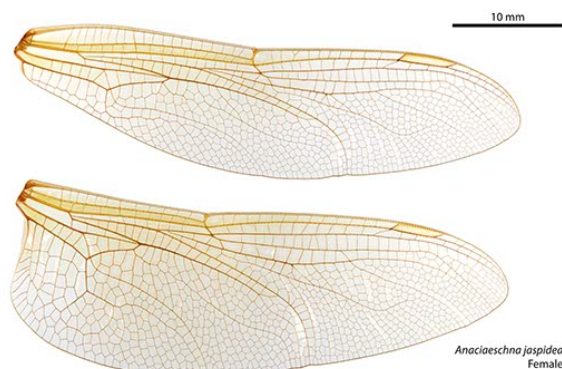


Agrionoptera longitudinalis male

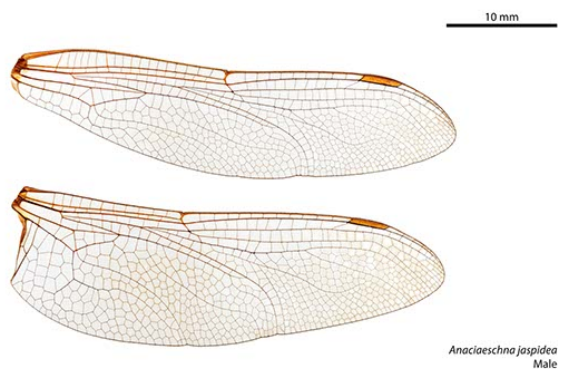


Agyrtacantha dirupta female

Agyrtacantha dirupta male



Anaciaeschna jaspidea female



Anaciaeschna jaspidea male

Anax georgius female

Anax georgius male

Anax gibbosulus female

Anax gibbosulus male

Anax guttatus female

Anax guttatus male

Anax papuensis female

Anax papuensis male



Antipodogomphus acolythus female



Antipodogomphus acolythus male



Antipodogomphus dentosus female



Antipodogomphus dentosus male



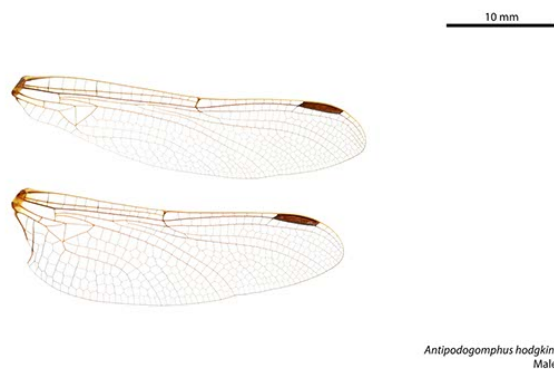
Antipodogomphus edentulus female



Antipodogomphus edentulus male



Antipodogomphus hodgkini female



Antipodogomphus hodgkini male



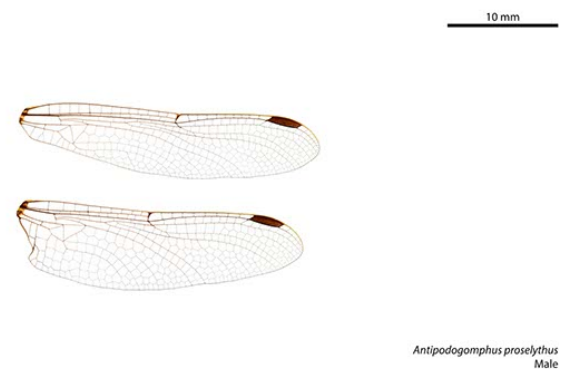
Antipodogomphus neophytus female



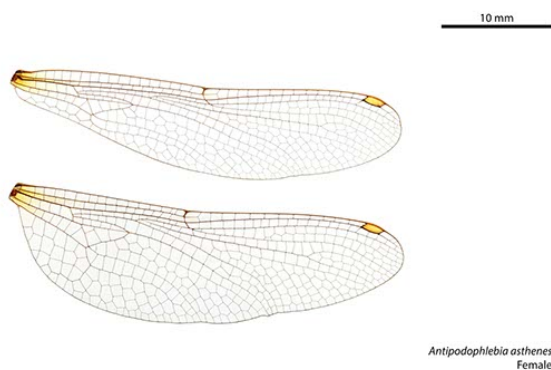
Antipodogomphus neophytus male



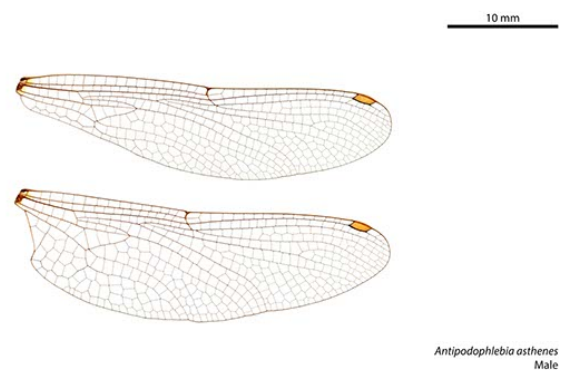
Antipodogomphus proselythus female



Antipodogomphus proselythus male



Antipodophlebia asthenes female



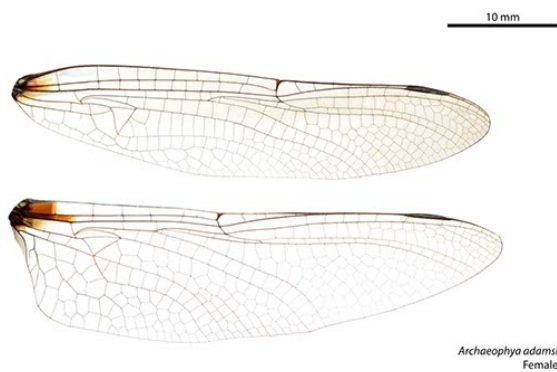
Antipodophlebia asthenes male



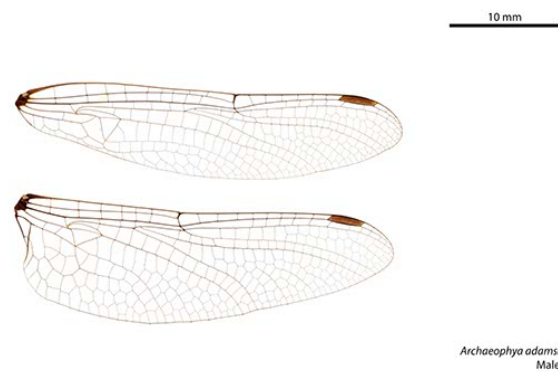
Apocordulia macrops female



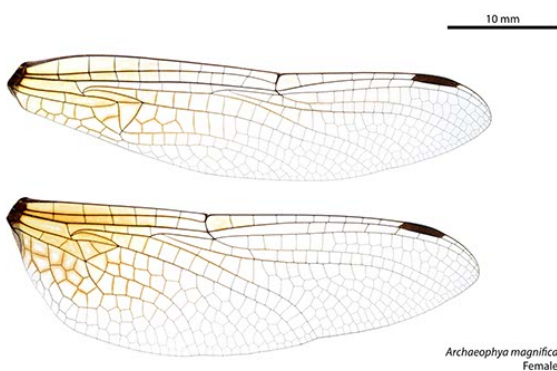
Apocordulia macrops male



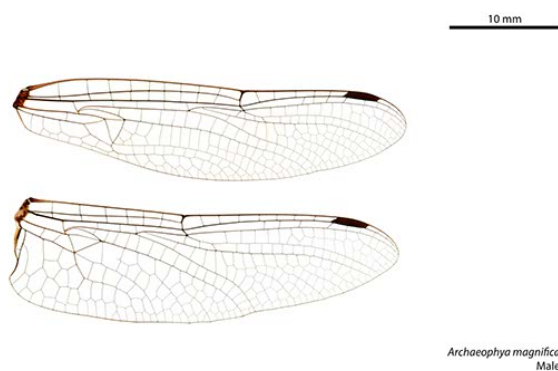
Archaeophya adamsi female



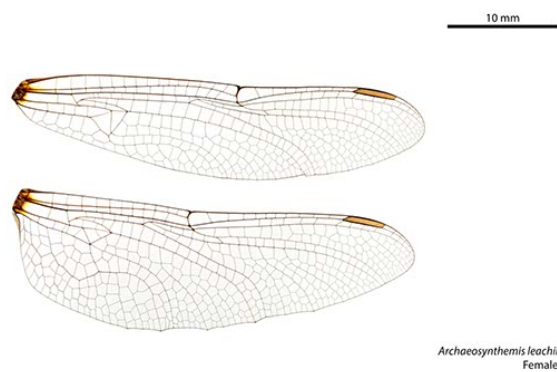
Archaeophya adamsi male



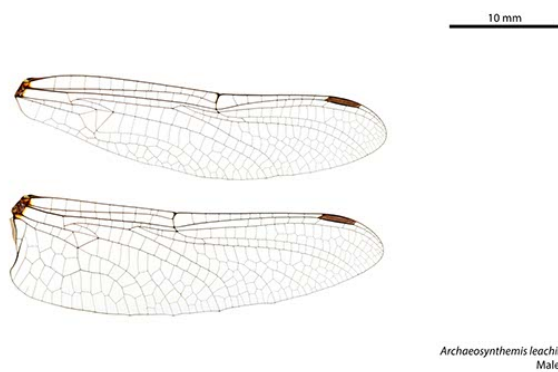
Archaeophya magnifica female



Archaeophya magnifica male



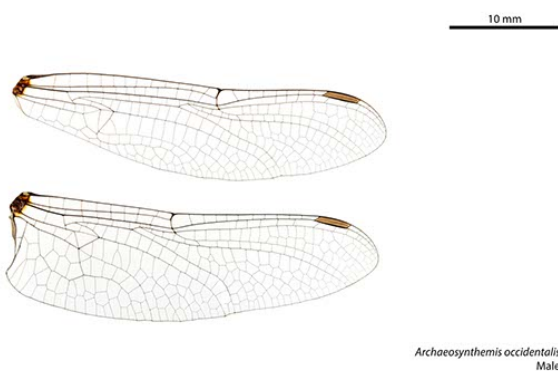
Archaeosynthemis leachii female



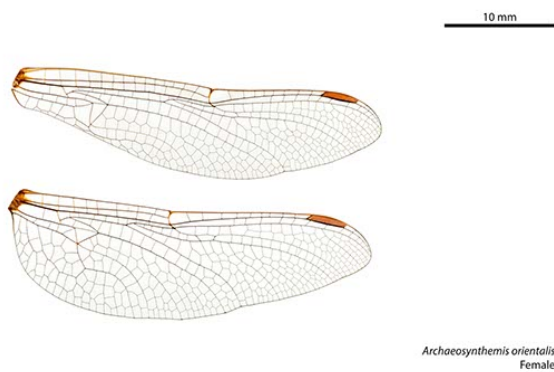
Archaeosynthemis leachii male



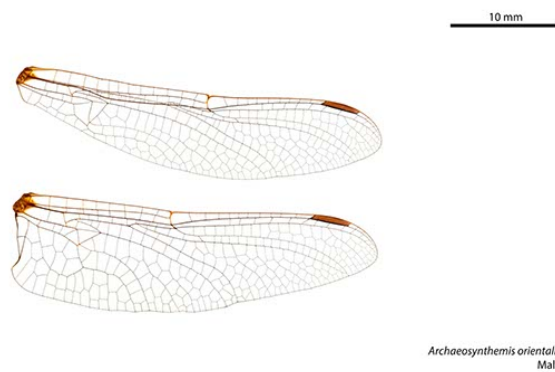
Archaeosynthemis occidentalis female



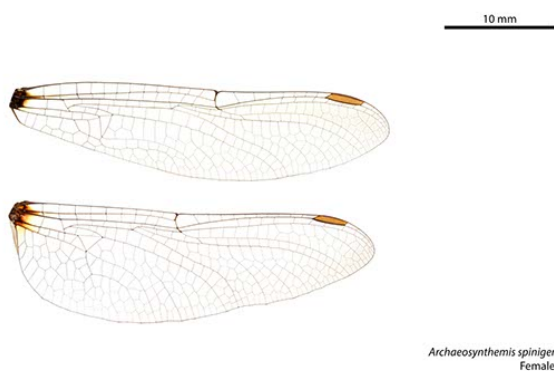
Archaeosynthemis occidentalis male



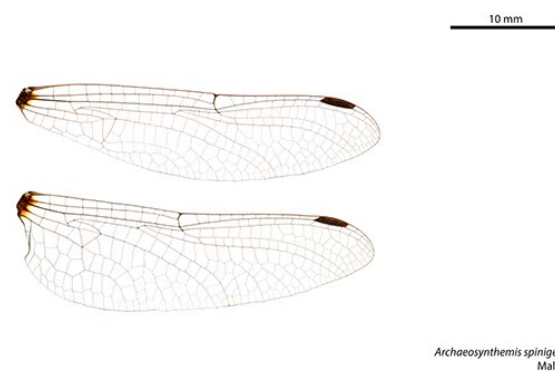
Archaeosynthemis orientalis female



Archaeosynthemis orientalis male



Archaeosynthemis spiniger female



Archaeosynthemis spiniger male



Archipetalia auriculata female



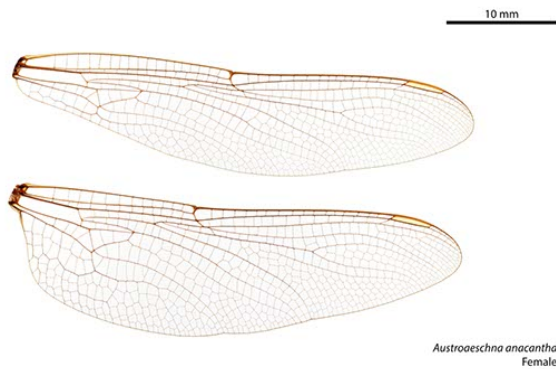
Archipetalia auriculata male



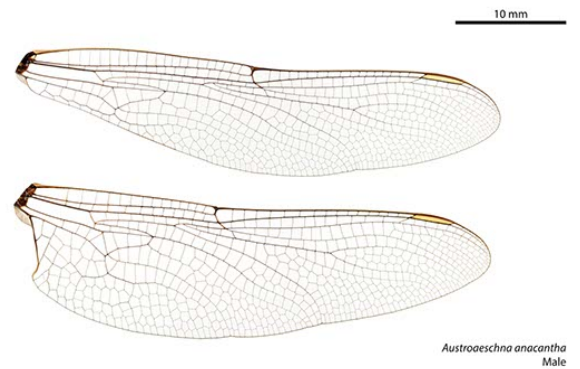
Armagomphus armiger female



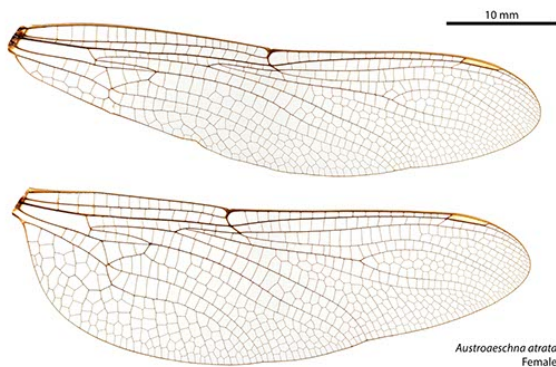
Armagomphus armiger male



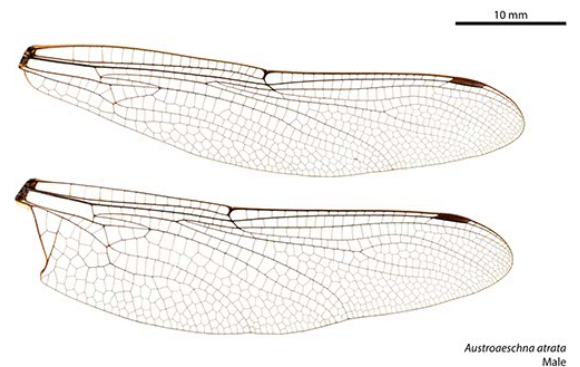
Austroaeschna anacantha female



Austroaeschna anacantha male



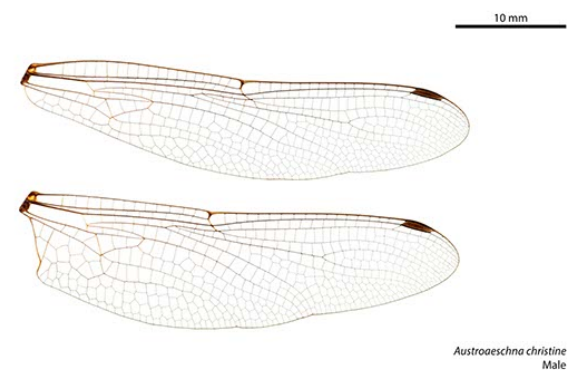
Austroaeschna atrata female



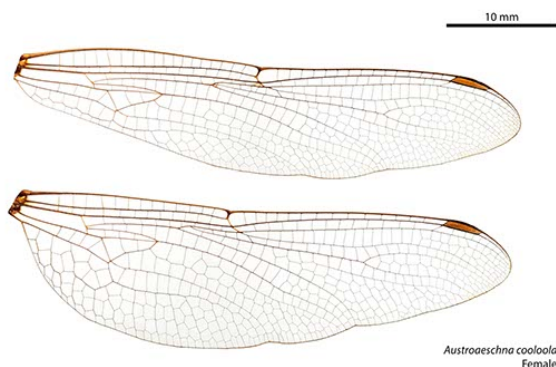
Austroaeschna atrata male



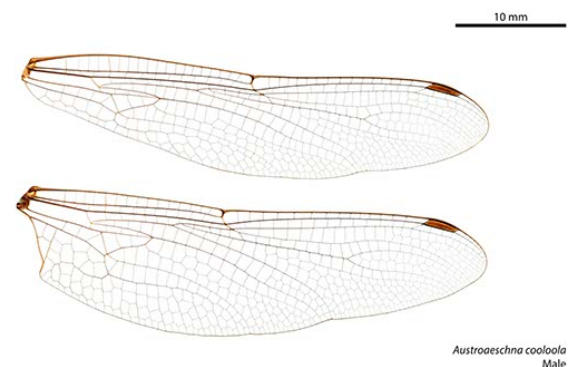
Austroaeschna christine female



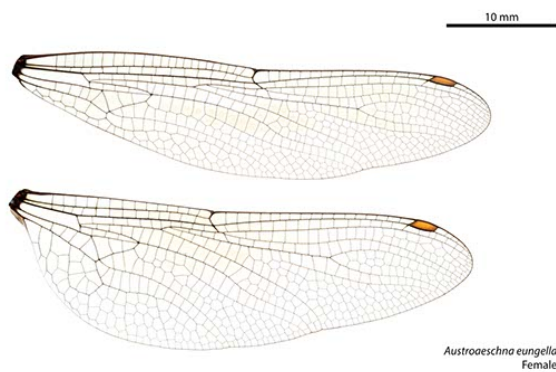
Austroaeschna christine male



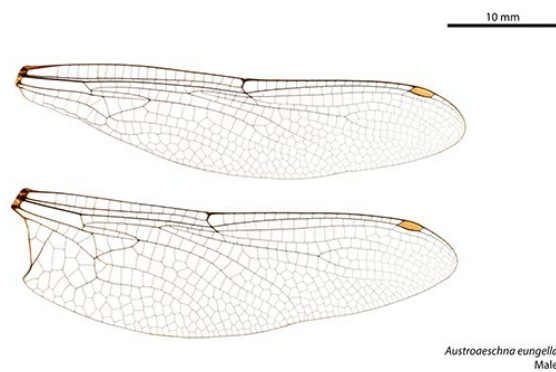
Austroaeschna cooloola female



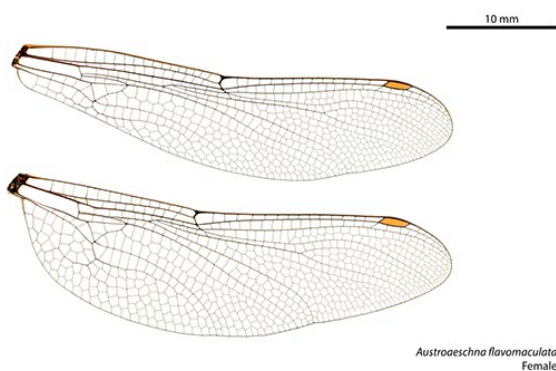
Austroaeschna cooloola male



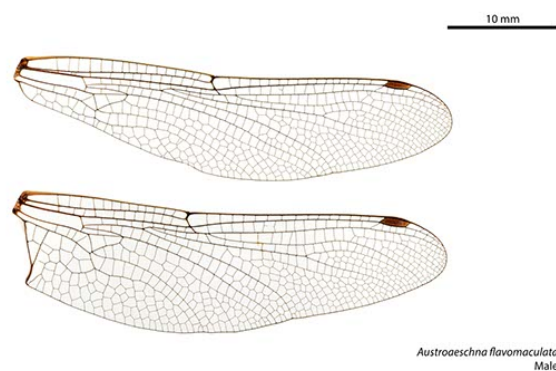
Austroaeschna eungella female



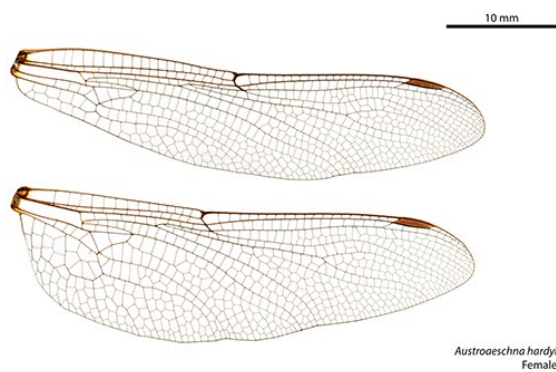
Austroaeschna eungella male



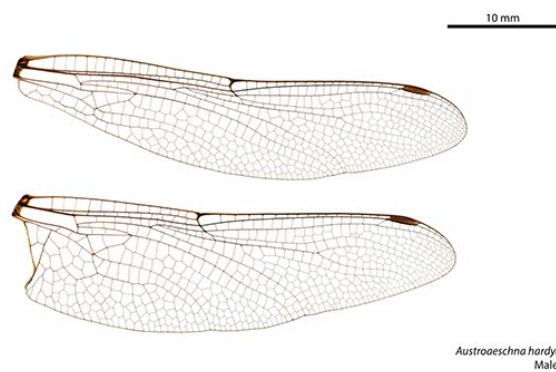
Austroaeschna flavomaculata female



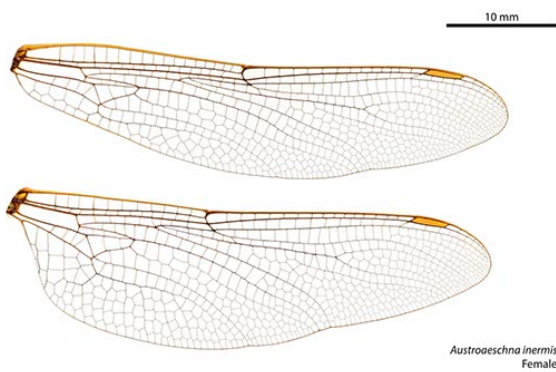
Austroaeschna flavomaculata male



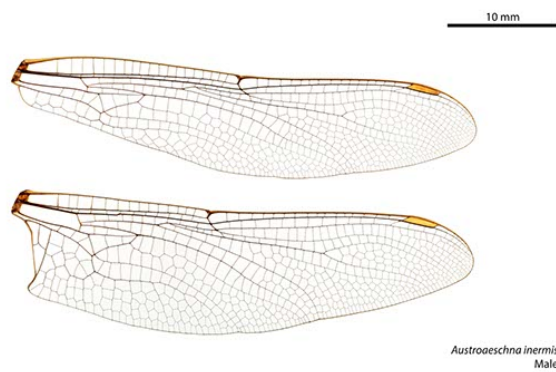
Austroaeschna hardyi female



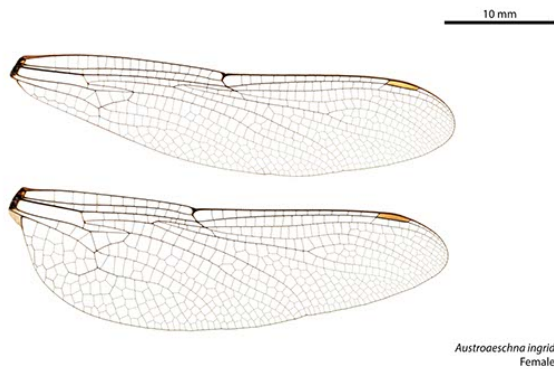
Austroaeschna hardyi male



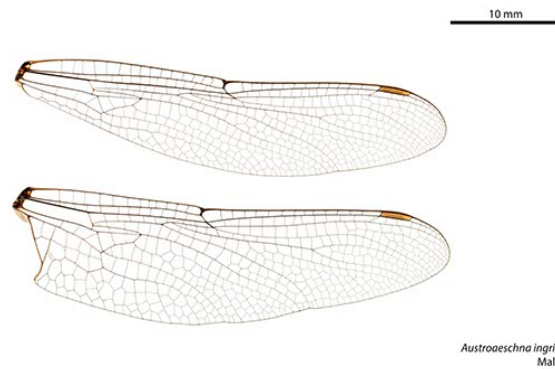
Austroaeschna inermis female



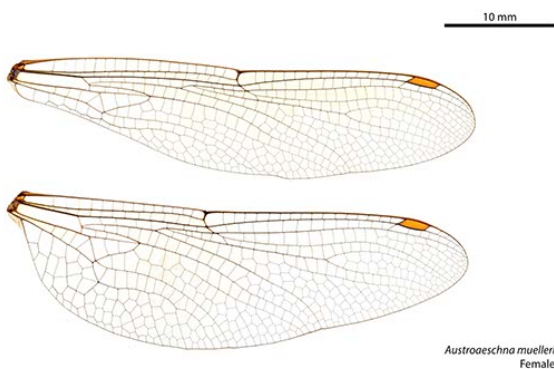
Austroaeschna inermis male



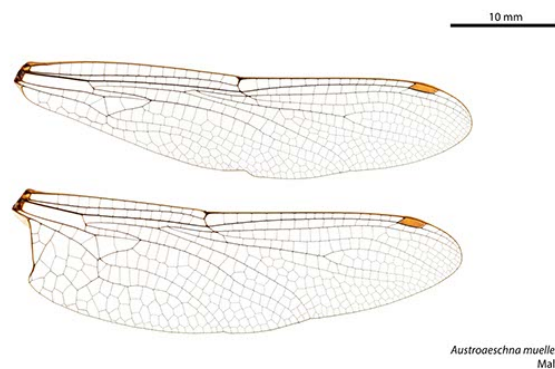
Austroaeschna ingrid female



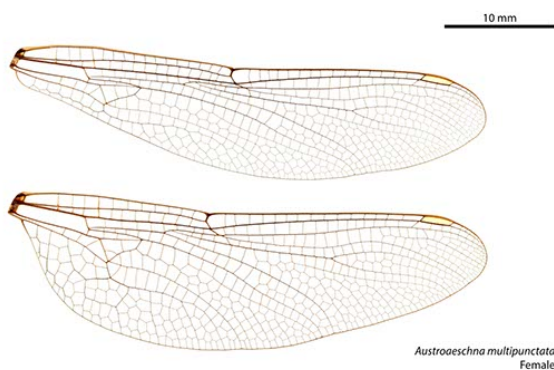
Austroaeschna ingrid male



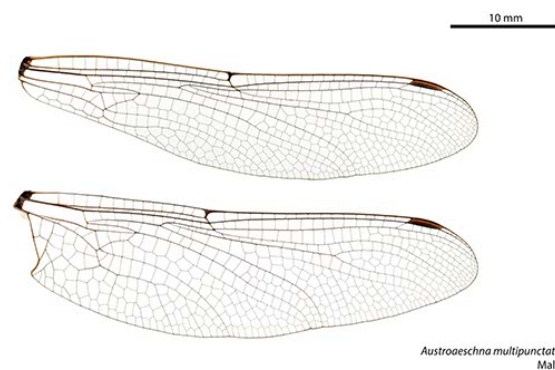
Austroaeschna muelleri female



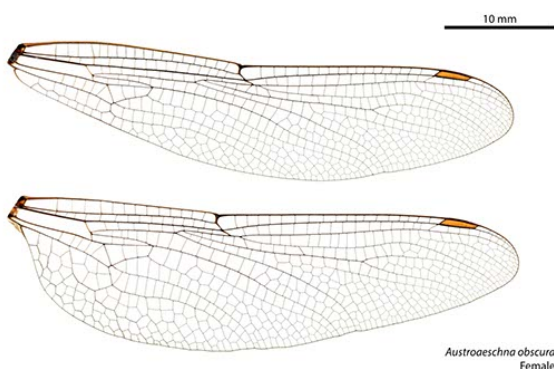
Austroaeschna muelleri male



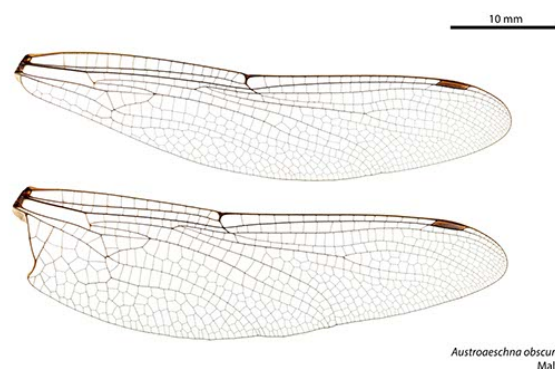
Austroaeschna multipunctata female



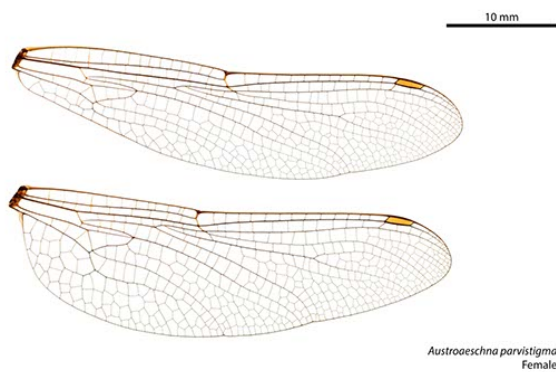
Austroaeschna multipunctata male



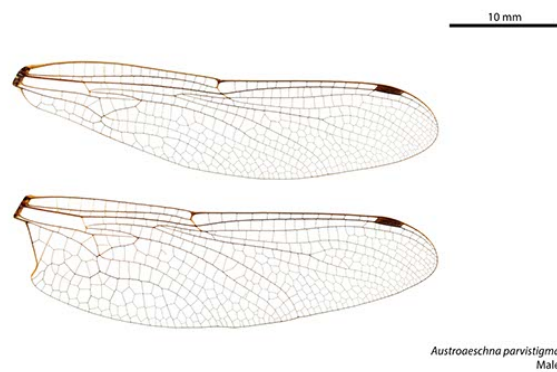
Austroaeschna obscura female



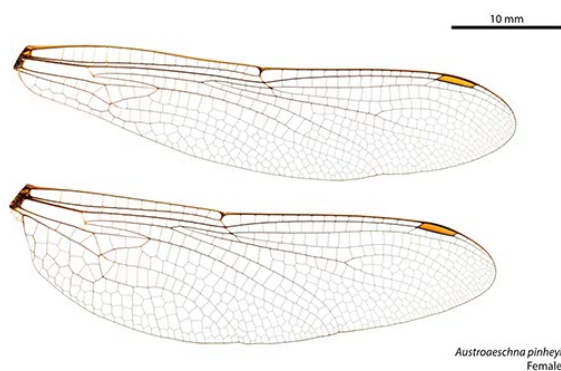
Austroaeschna obscura male



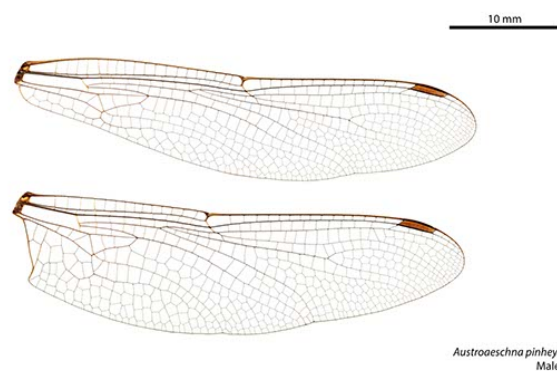
Austroaeschna parvistigma female



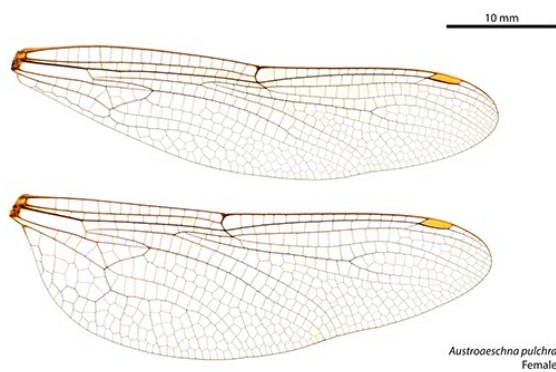
Austroaeschna parvistigma male



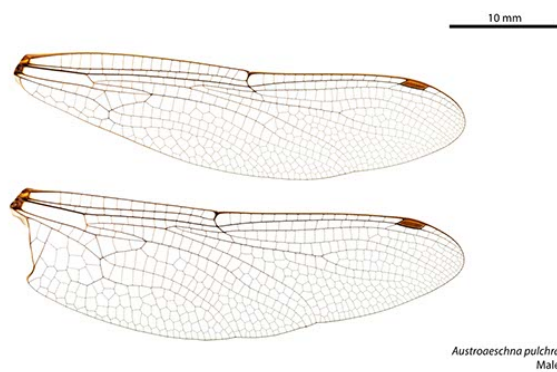
Austroaeschna pinheyi female



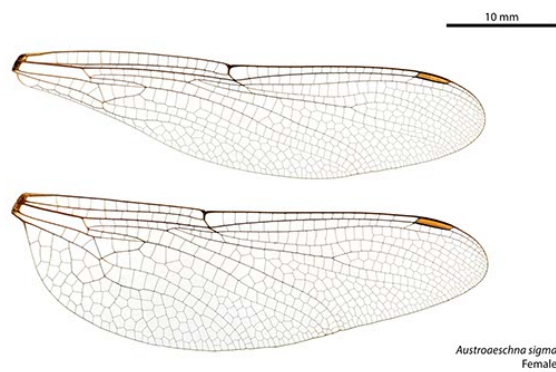
Austroaeschna pinheyi male



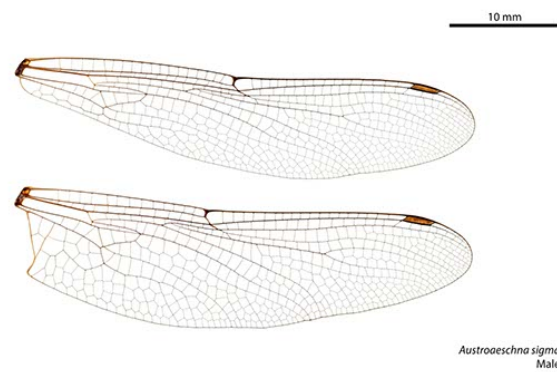
Austroaeschna pulchra female



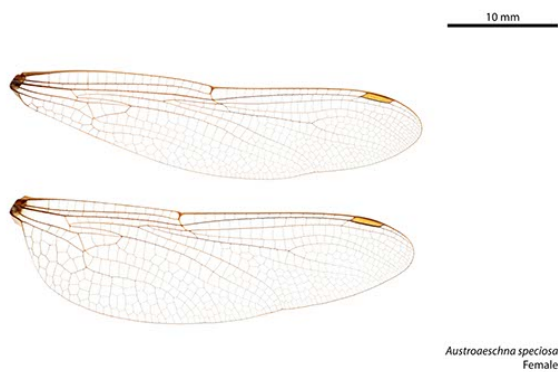
Austroaeschna pulchra male



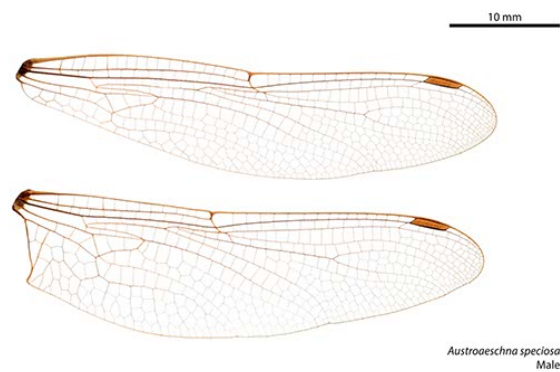
Austroaeschna sigma female



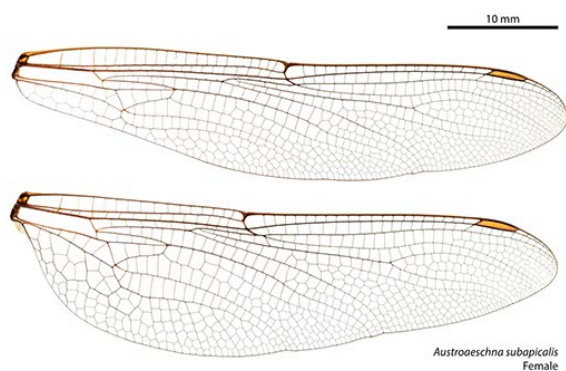
Austroaeschna sigma male



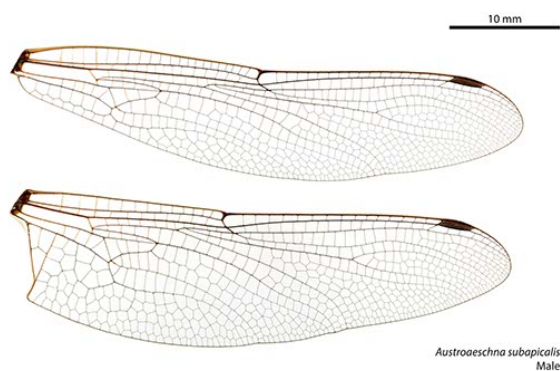
Austroaeschna speciosa female



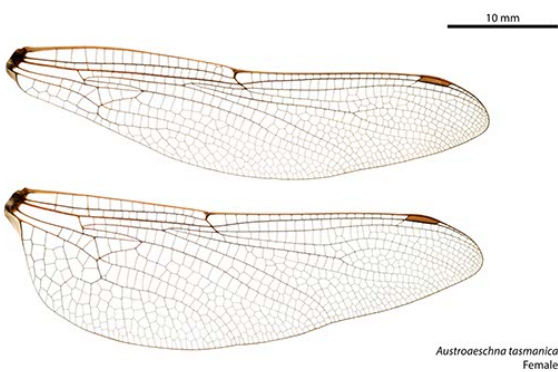
Austroaeschna speciosa male



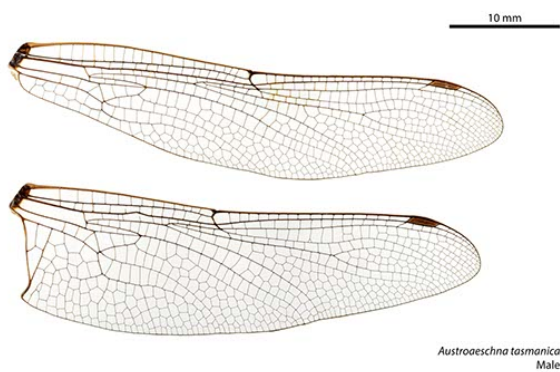
Austroaeschna subapicalis female



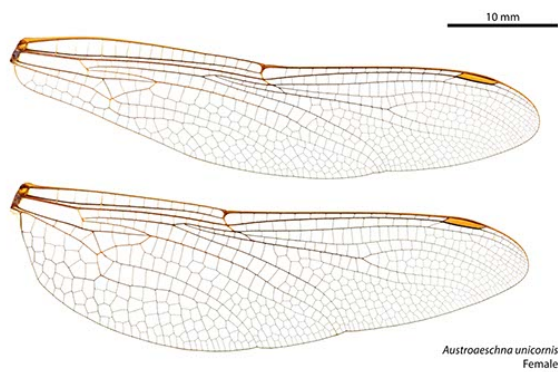
Austroaeschna subapicalis male



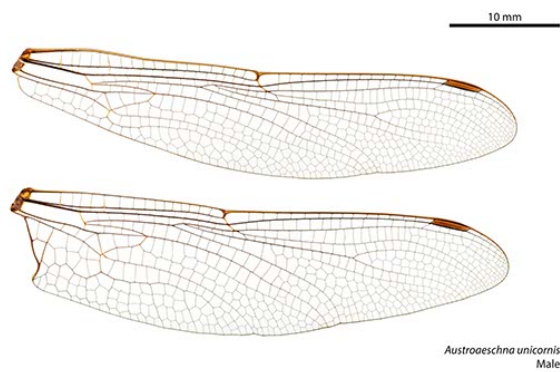
Austroaeschna tasmanica female



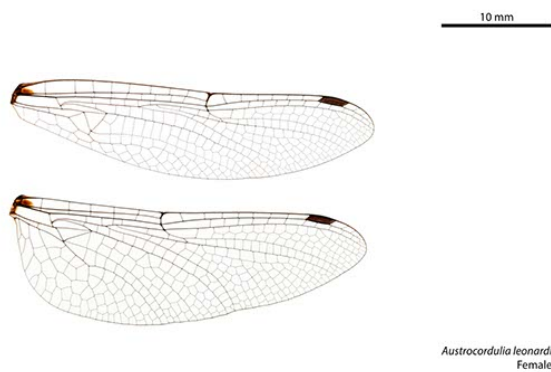
Austroaeschna tasmanica male



Austroaeschna unicornis female



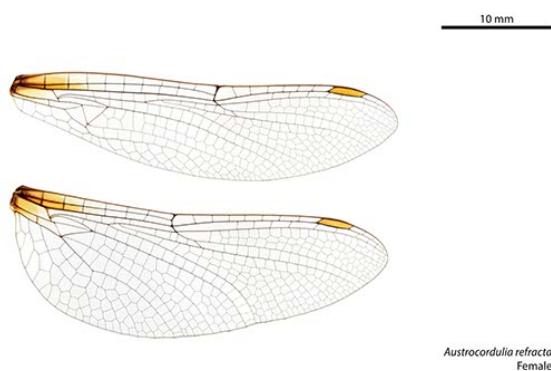
Austroaeschna unicornis male



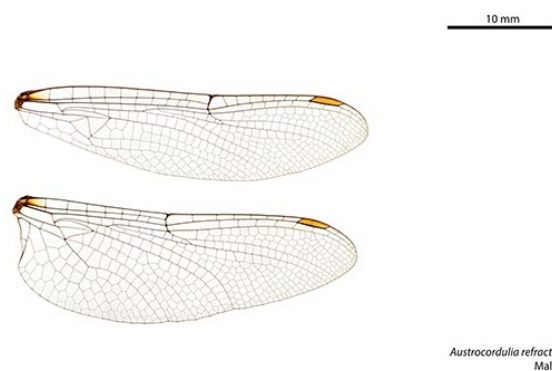
Austrocordulia leonardi female



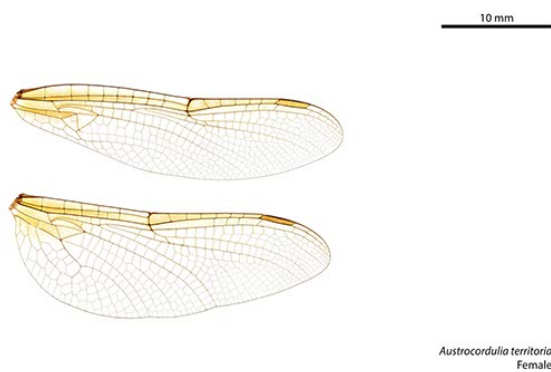
Austrocordulia leonardi male



Austrocordulia refracta female



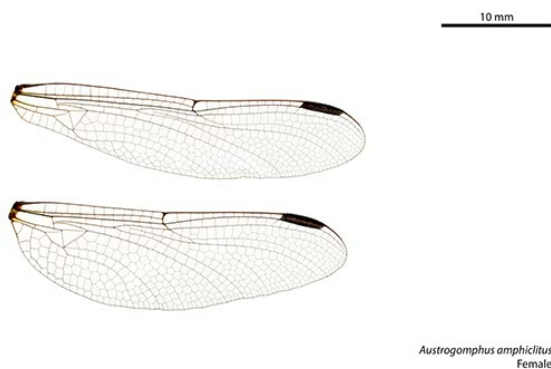
Austrocordulia refracta male



Austrocordulia territoria female



Austrocordulia territoria male



Austrogomphus amphilitus female



Austrogomphus amphilitus male



Austrogomphus angelorum female



Austrogomphus angelorum male



Austrogomphus arbustorum female



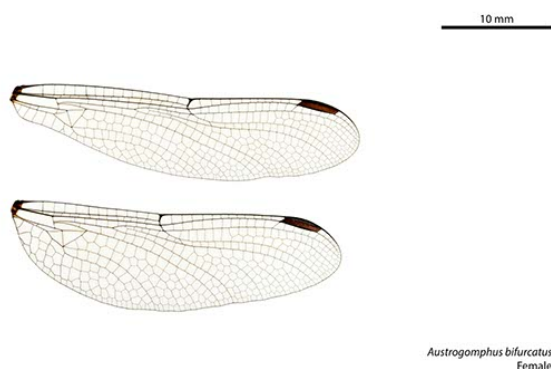
Austrogomphus arbustorum male



Austrogomphus australis female



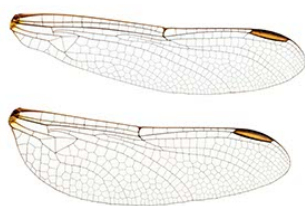
Austrogomphus australis male



Austrogomphus bifurcatus female

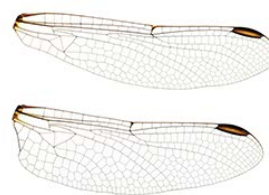


Austrogomphus bifurcatus male



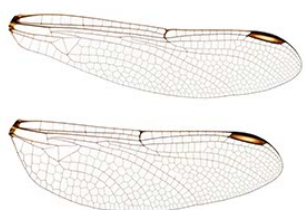
Austrogomphus collaris
Female

Austrogomphus collaris female



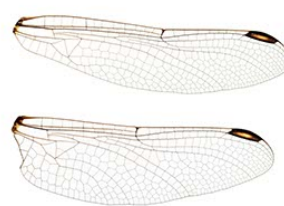
Austrogomphus collaris
Male

Austrogomphus collaris male



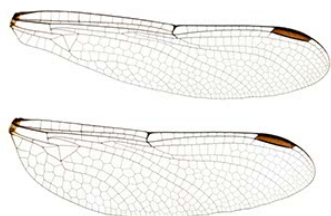
Austrogomphus cornutus
Female

Austrogomphus cornutus female



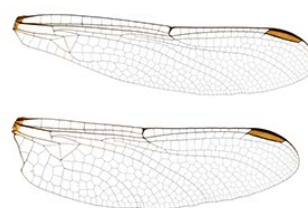
Austrogomphus cornutus
Male

Austrogomphus cornutus male



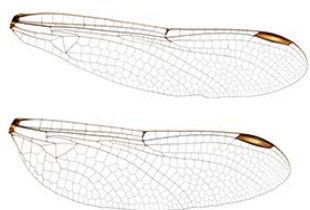
Austrogomphus divaricatus
Female

Austrogomphus divaricatus female



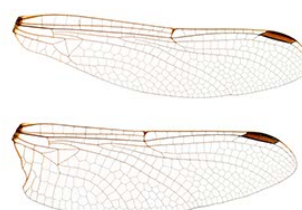
Austrogomphus divaricatus
Male

Austrogomphus divaricatus male



Austrogomphus doddi
Female

Austrogomphus doddi female

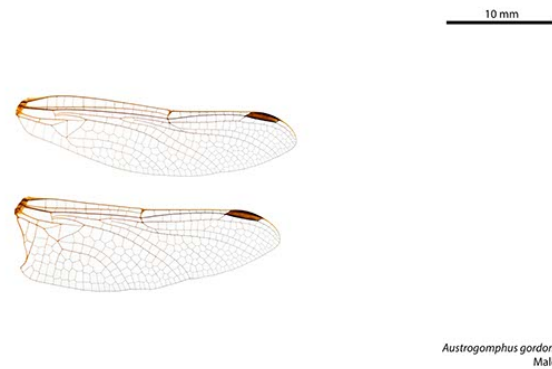


Austrogomphus doddi
Male

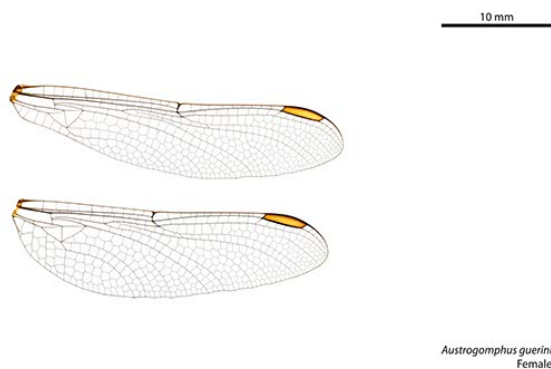
Austrogomphus doddi male



Austrogomphus gordonii female



Austrogomphus gordonii male



Austrogomphus guerini female



Austrogomphus guerini male



Austrogomphus mjobergi female

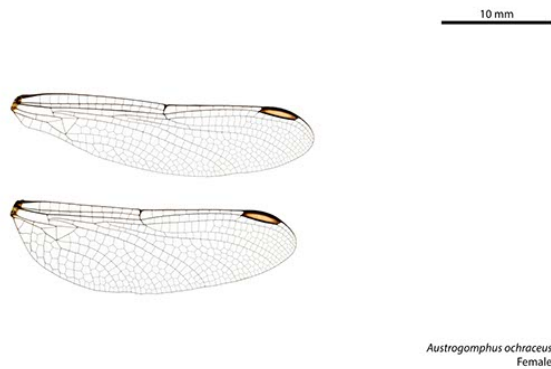


Austrogomphus mjobergi male



Austrogomphus mouldsorum female

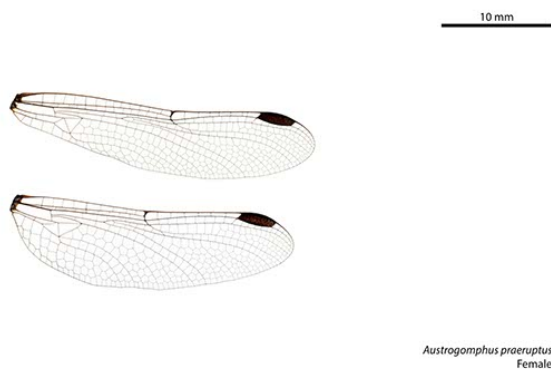
Austrogomphus mouldsorum male



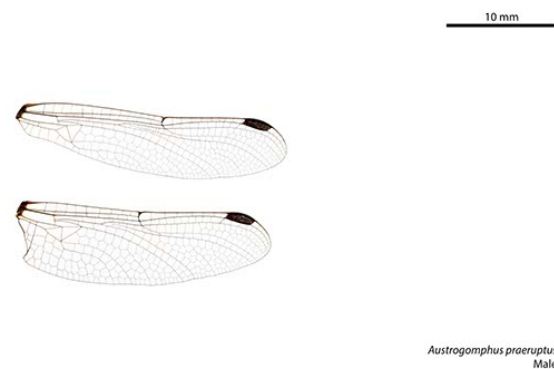
Austrogomphus ochraceus female



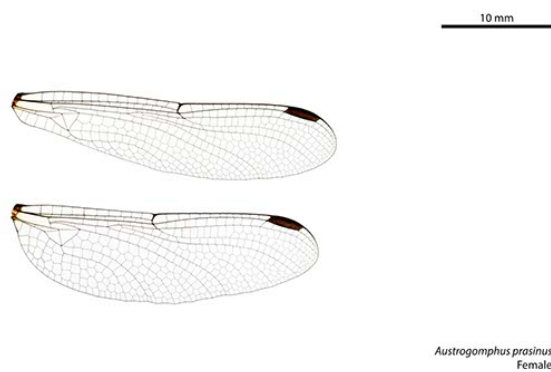
Austrogomphus ochraceus male



Austrogomphus praeruptus female



Austrogomphus praeruptus male



Austrogomphus prasinus female



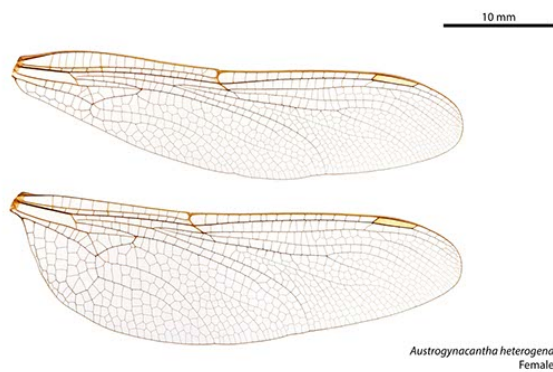
Austrogomphus prasinus male



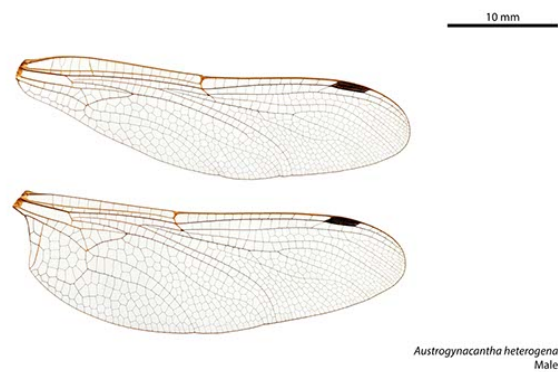
Austrogomphus turneri female



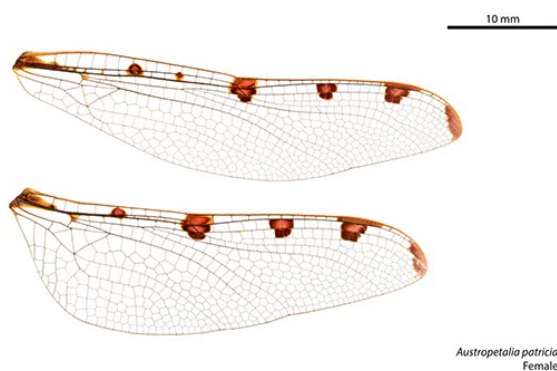
Austrogomphus turneri male



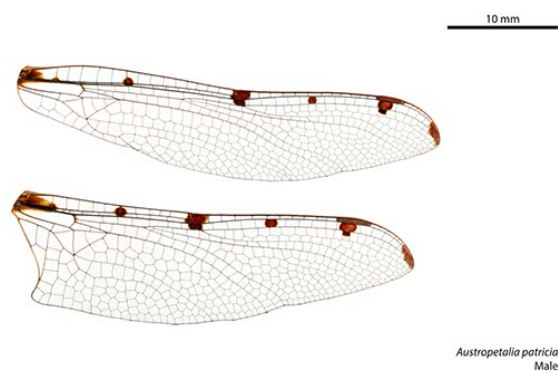
Austrogynacantha heterogena female



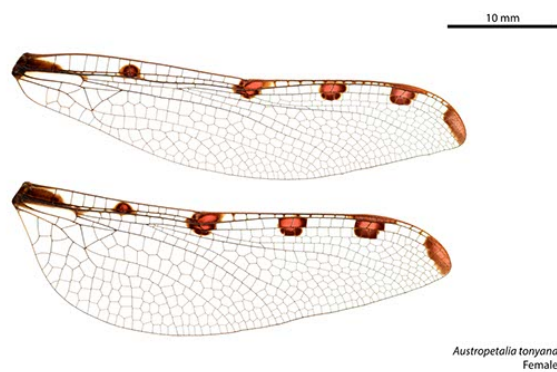
Austrogynacantha heterogena male



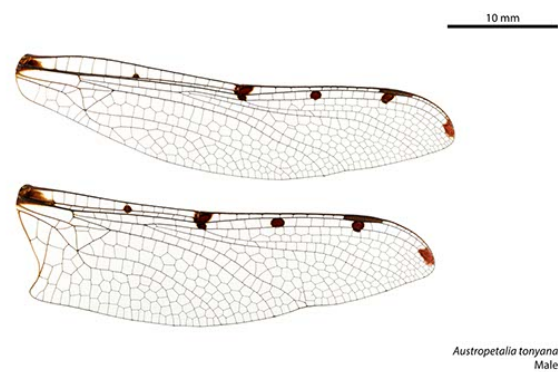
Austropetalia patricia female



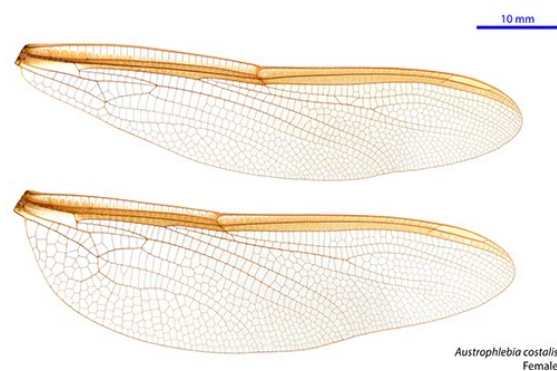
Austropetalia patricia male



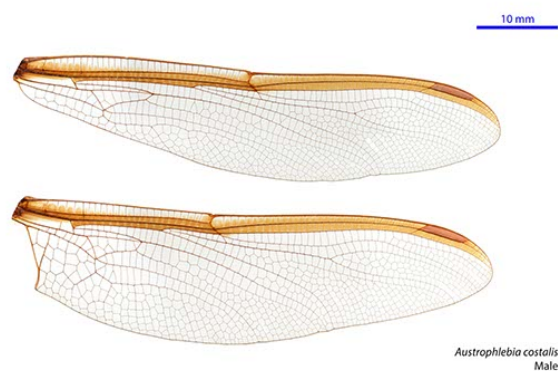
Austropetalia tonyana female



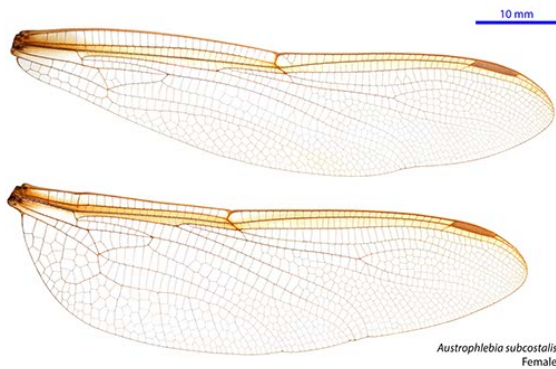
Austropetalia tonyana male



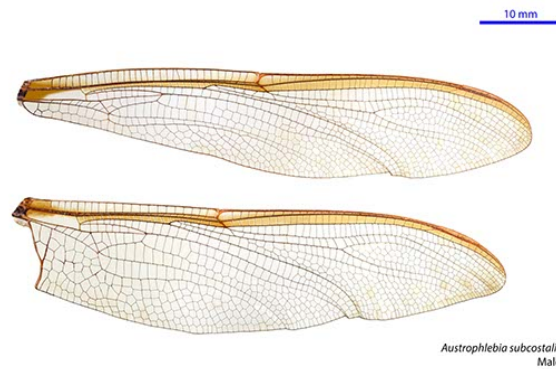
Austrophlebia costalis female



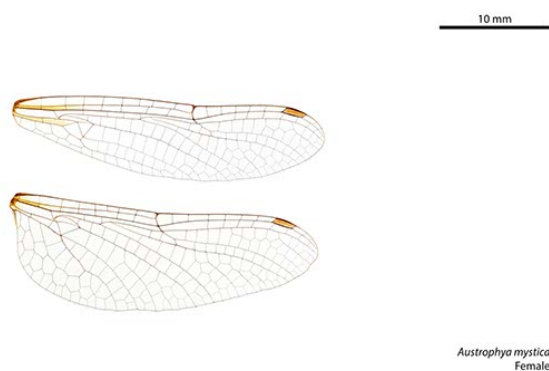
Austrophlebia costalis male



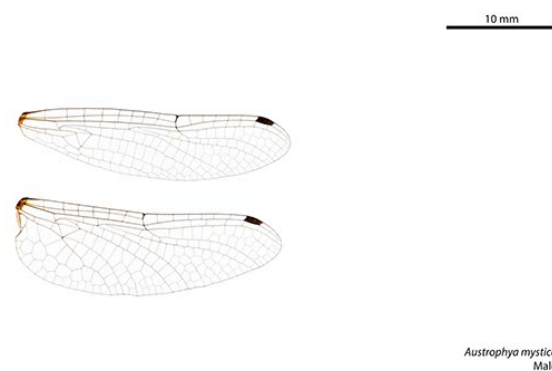
Austrophlebia subcostalis female



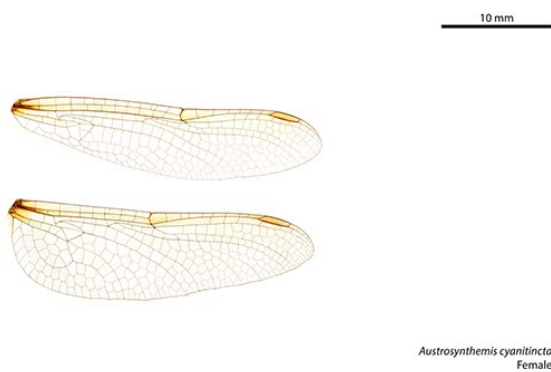
Austrophlebia subcostalis male



Austrophya mystica female



Austrophya mystica male



Austrosynthemis cyanitincta female



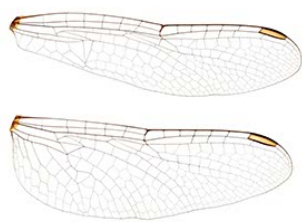
Austrosynthemis cyanitincta male



Austrothemis nigrescens female

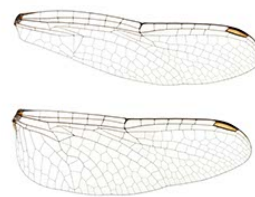


Austrothemis nigrescens male



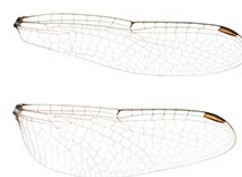
Brachydiplax denticauda
Female

Brachydiplax denticauda female



Brachydiplax denticauda
Male

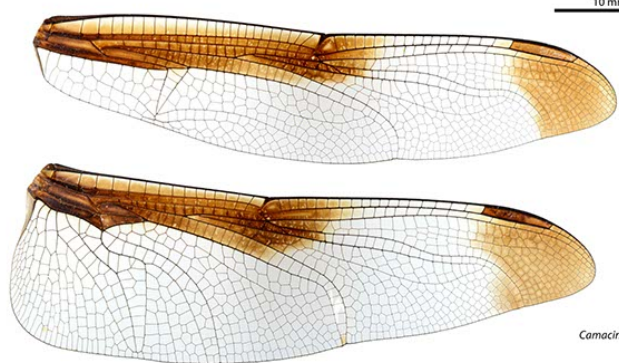
Brachydiplax denticauda male



Brachydiplax duivenbodei
Male

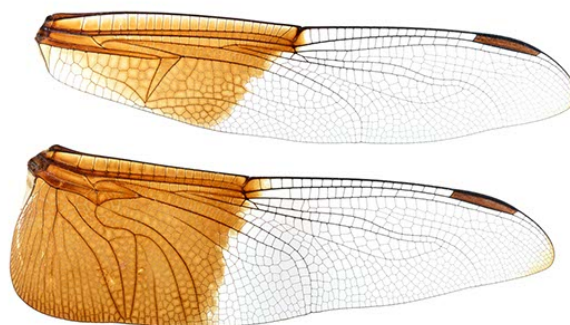
Brachydiplax duivenbodei female

Brachydiplax duivenbodei male



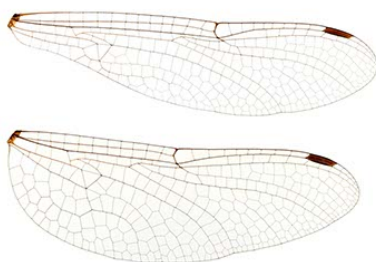
Camacinia othello
Female

Camacinia othello female



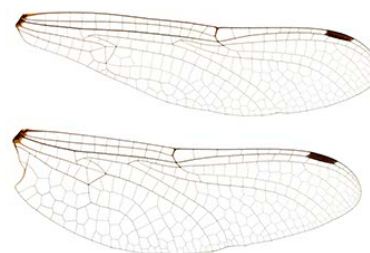
Camacinia othello
Male

Camacinia othello male



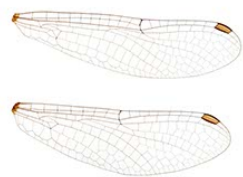
Choristhemis flavoterminalata
Female

Choristhemis flavoterminalata female



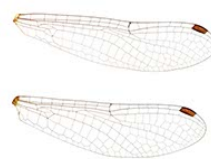
Choristhemis flavoterminalata
Male

Choristhemis flavoterminalata male



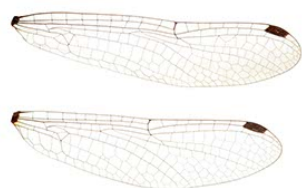
Cordulephya bidens
Female

Cordulephya bidens female



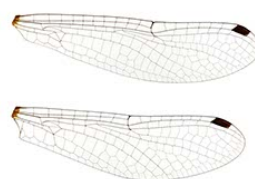
Cordulephya bidens
Male

Cordulephya bidens male



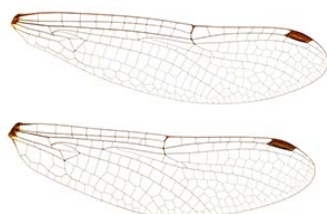
Cordulephya divergens
Female

Cordulephya divergens female



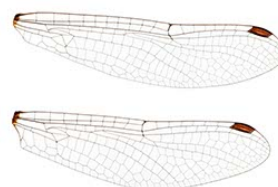
Cordulephya divergens
Male

Cordulephya divergens male



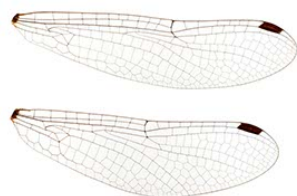
Cordulephya montana
Female

Cordulephya montana female



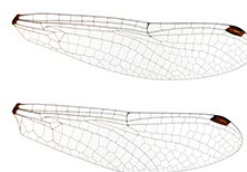
Cordulephya montana
Male

Cordulephya montana male



Cordulephya pygmaea
Female

Cordulephya pygmaea female



Cordulephya pygmaea
Male

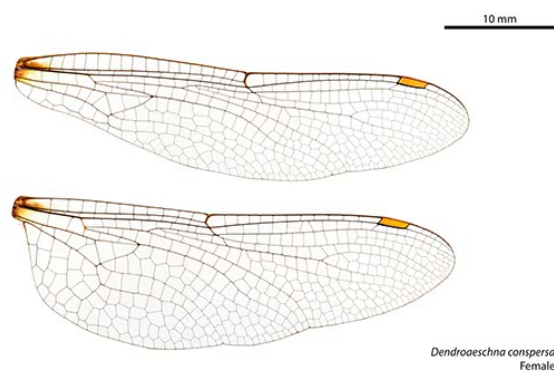
Cordulephya pygmaea male



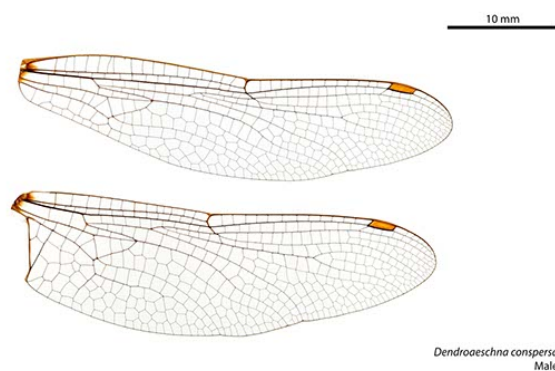
Crocothemis nigrifrons female



Crocothemis nigrifrons male



Dendroaeschna conspersa female



Dendroaeschna conspersa male



Diplacodes bipunctata female



Diplacodes bipunctata male



Diplacodes haematodes female



Diplacodes haematodes male



Diplacodes melanopsis female



Diplacodes melanopsis male



Diplacodes nebulosa female



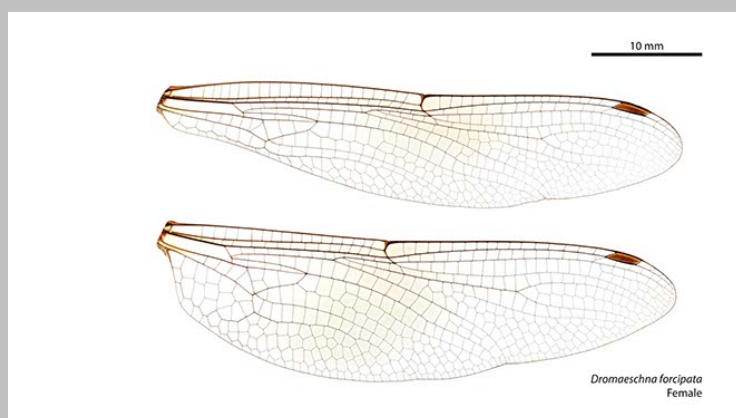
Diplacodes nebulosa male



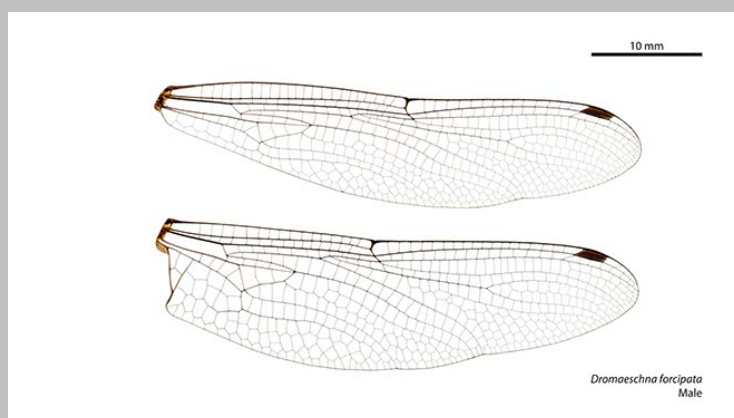
Diplacodes trivialis female



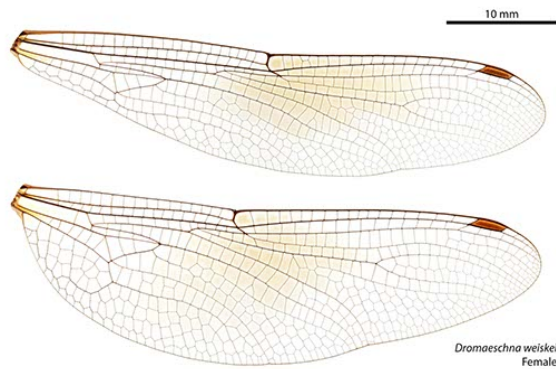
Diplacodes trivialis male



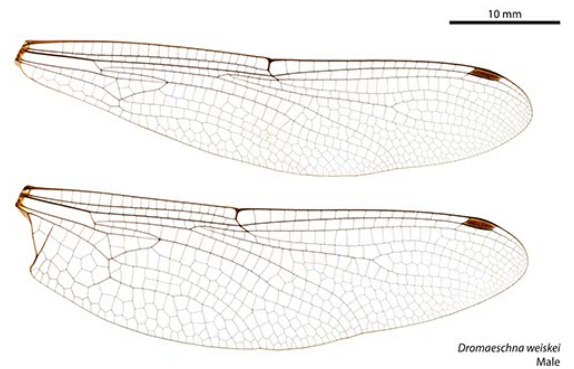
Dromaeschna forcipata female



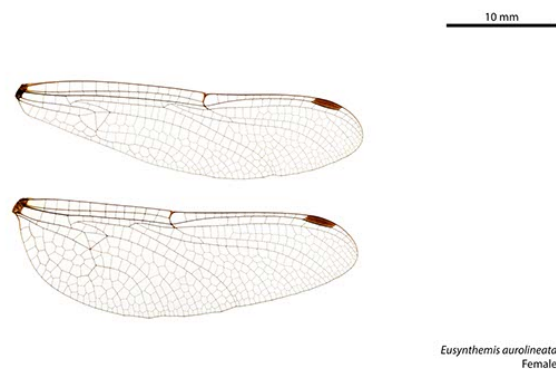
Dromaeschna forcipata male



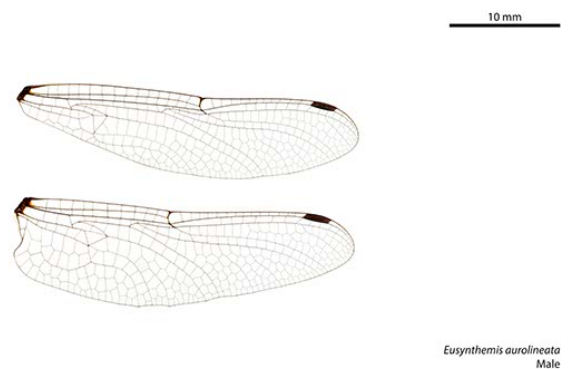
Dromaeschna weiskei female



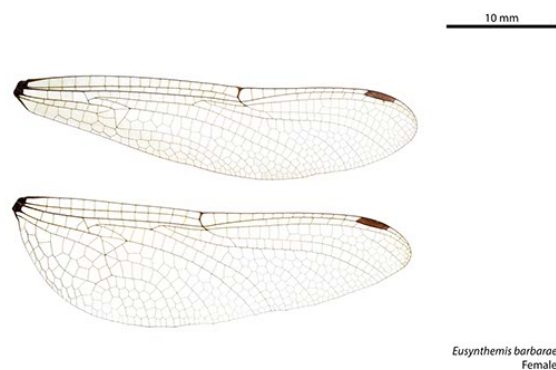
Dromaeschna weiskei male



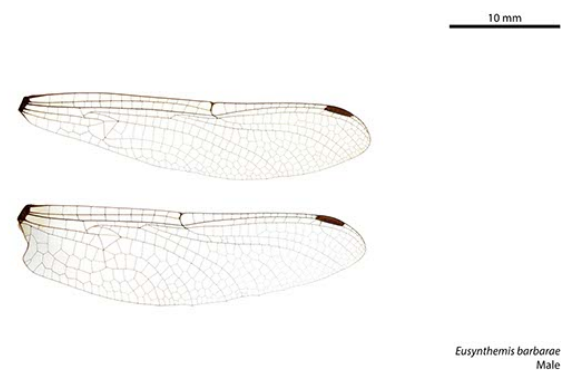
Eusynthemis aurolineata female



Eusynthemis aurolineata male



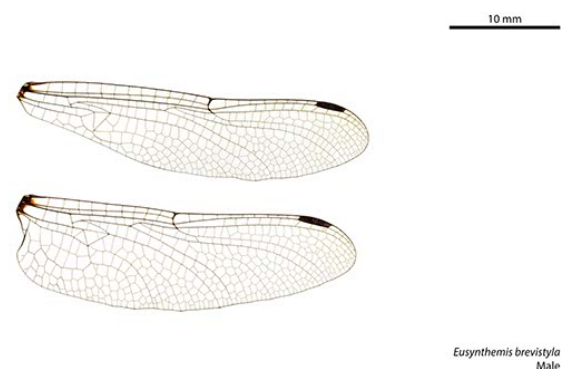
Eusynthemis barbarae female



Eusynthemis barbarae male



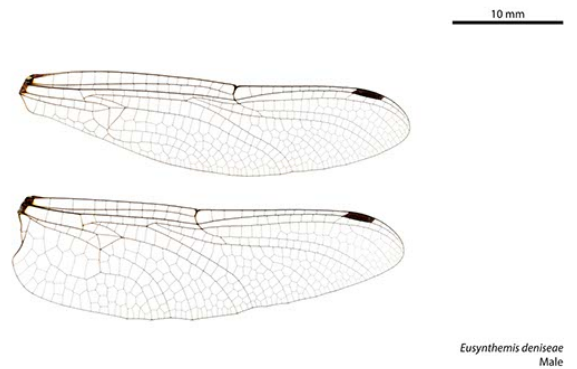
Eusynthemis brevistyla female



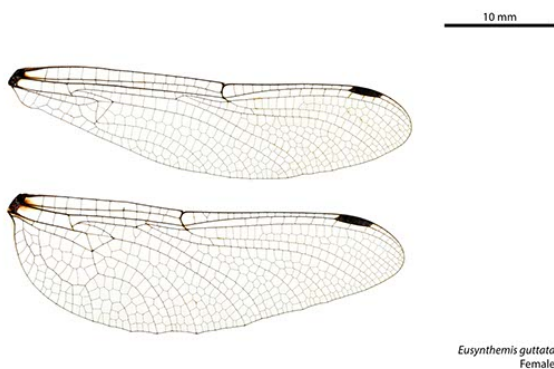
Eusynthemis brevistyla male



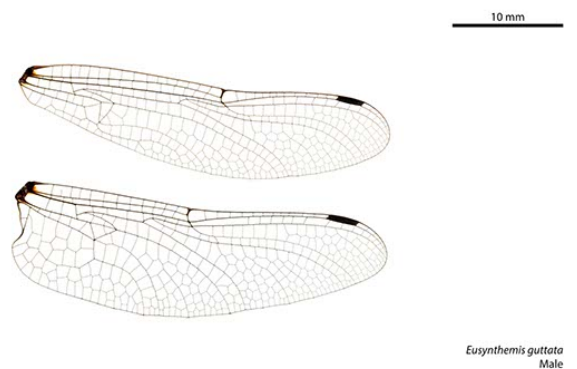
Eusynthemis deniseae female



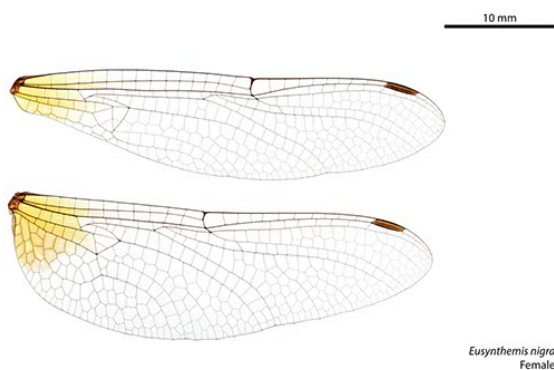
Eusynthemis deniseae male



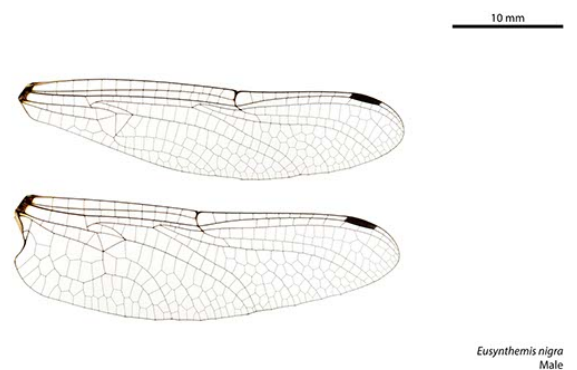
Eusynthemis guttata female



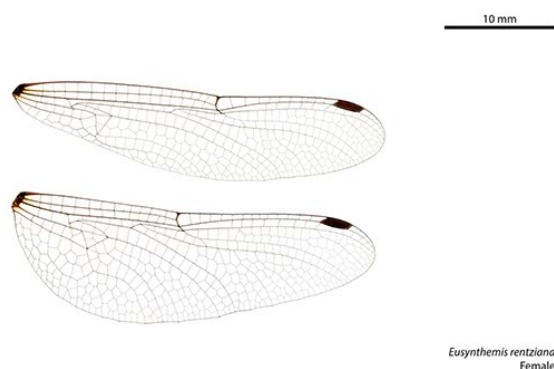
Eusynthemis guttata male



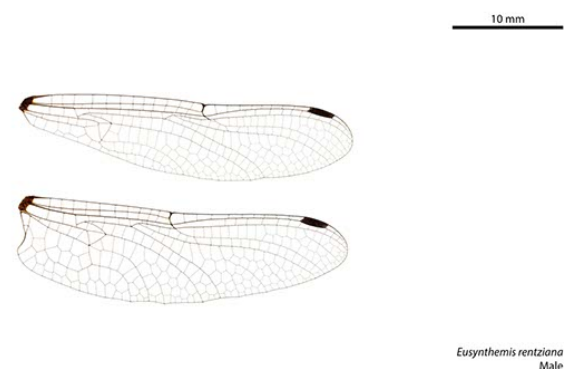
Eusynthemis nigra female



Eusynthemis nigra male



Eusynthemis rentziana female

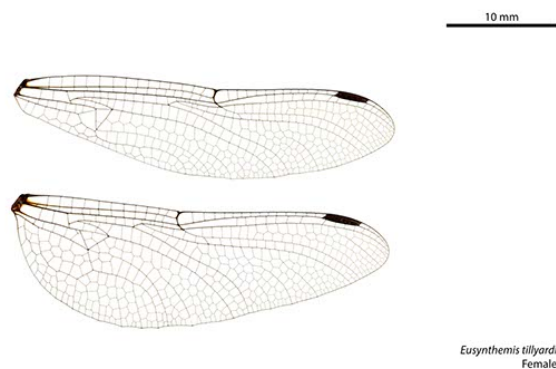


Eusynthemis rentziana male

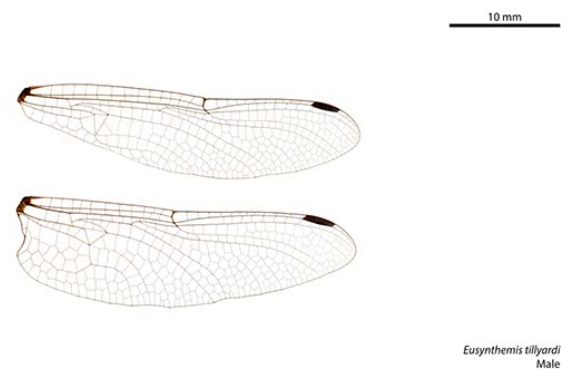


Eusynthemis tenera female

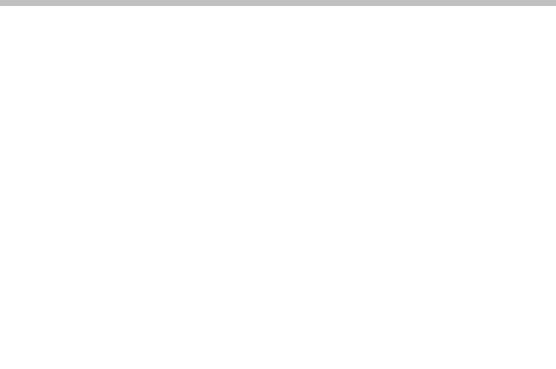
Eusynthemis tenera male



Eusynthemis tillyardi female



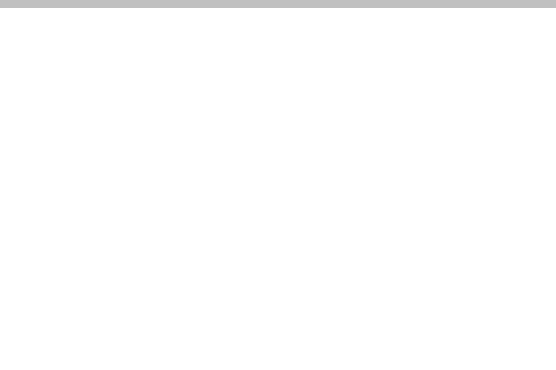
Eusynthemis tillyardi male



Eusynthemis ursa female



Eusynthemis ursa male



Eusynthemis ursula female



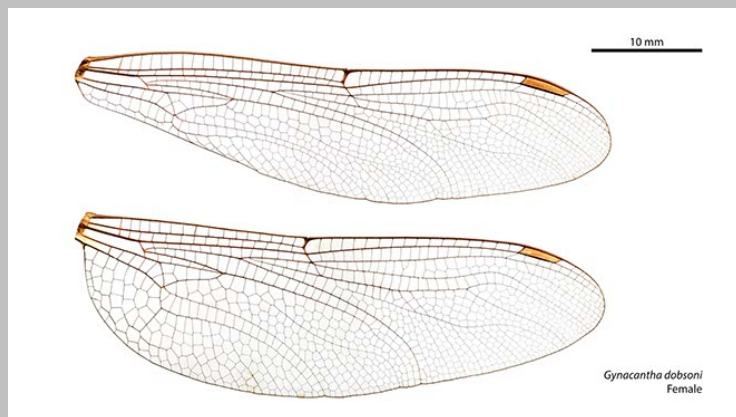
Eusynthemis ursula male



Eusynthemis virgula female



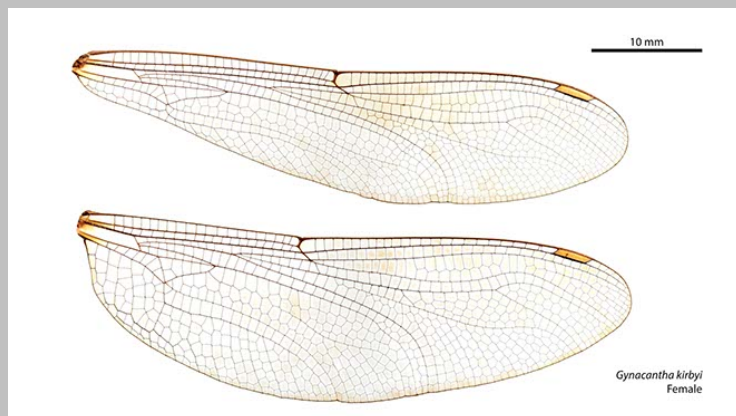
Eusynthemis virgula male



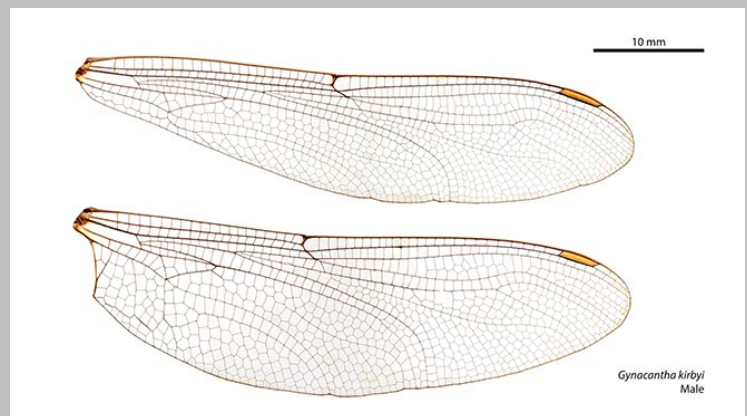
Gynacantha dobsoni female



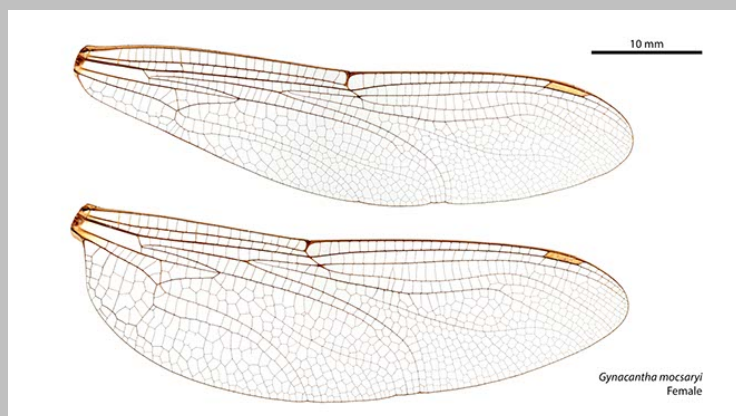
Gynacantha dobsoni male



Gynacantha kirbyi female



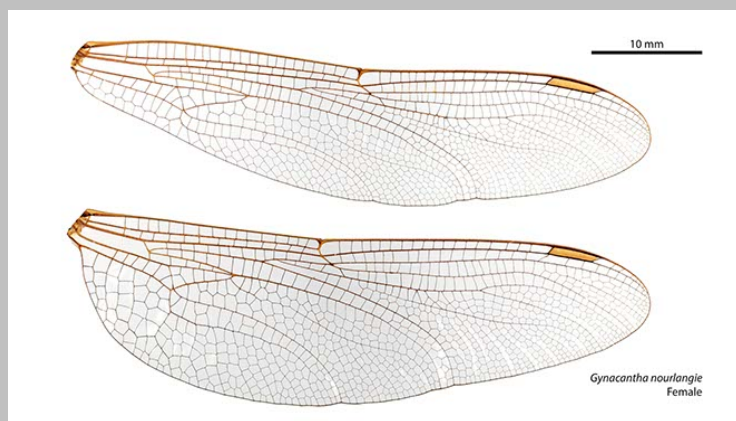
Gynacantha kirbyi male



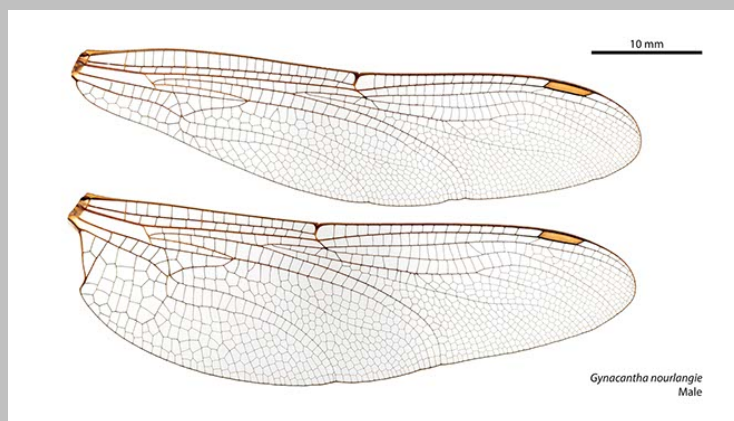
Gynacantha mocsaryi female



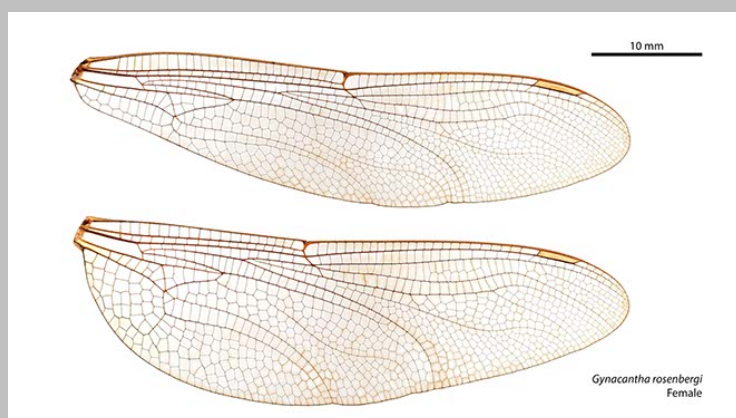
Gynacantha mocsaryi male



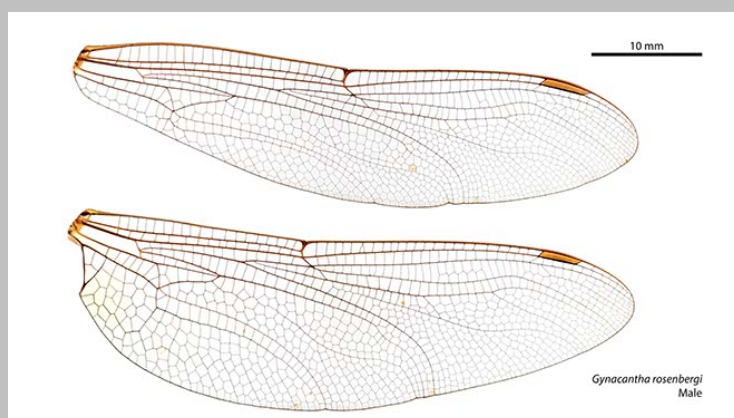
Gynacantha nourlangie female



Gynacantha nourlangie male



Gynacantha rosenbergi female



Gynacantha rosenbergi male



Hemicordulia australiae female



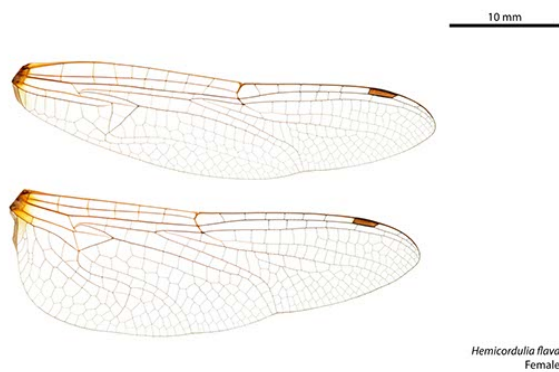
Hemicordulia australiae male



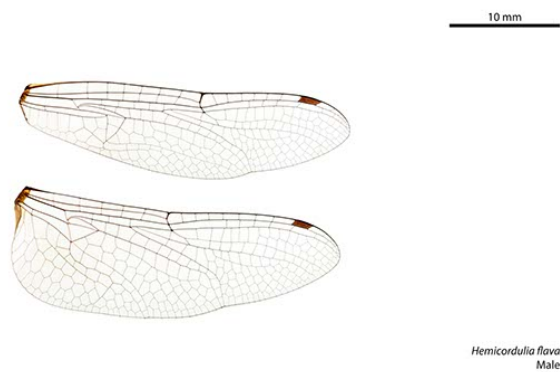
Hemicordulia continentalis female



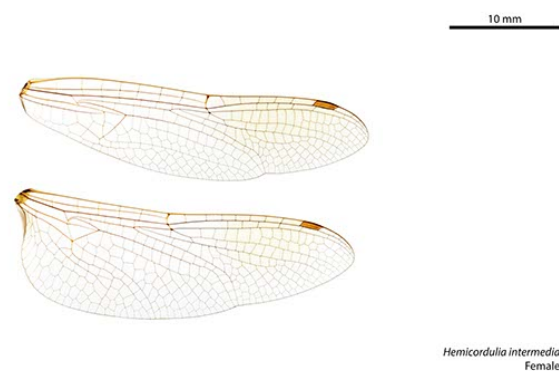
Hemicordulia continentalis male



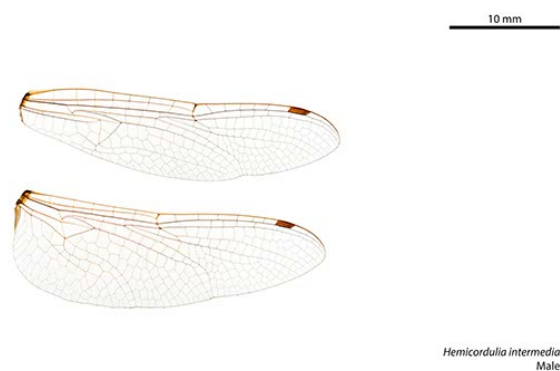
Hemicordulia flava female



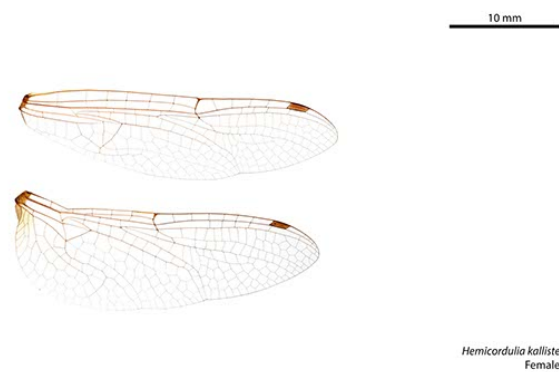
Hemicordulia flava male



Hemicordulia intermedia female



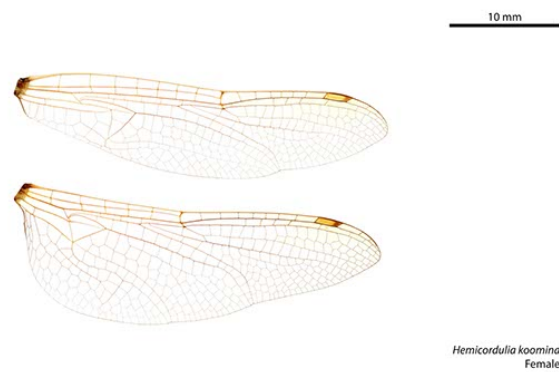
Hemicordulia intermedia male



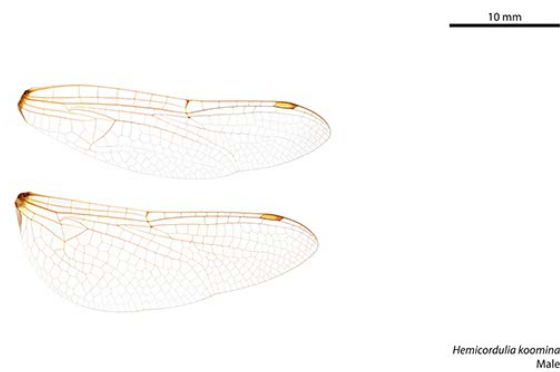
Hemicordulia kalliste female



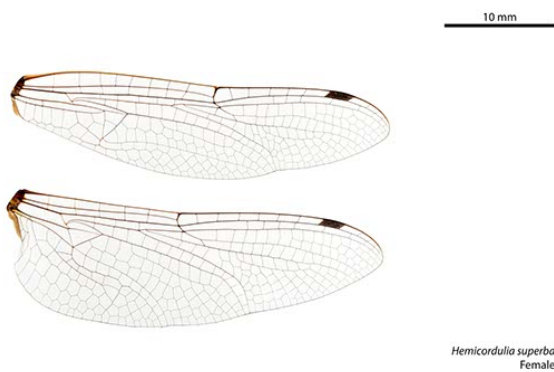
Hemicordulia kalliste male



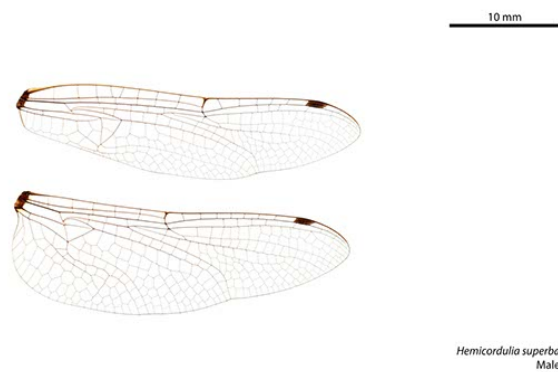
Hemicordulia koomina female



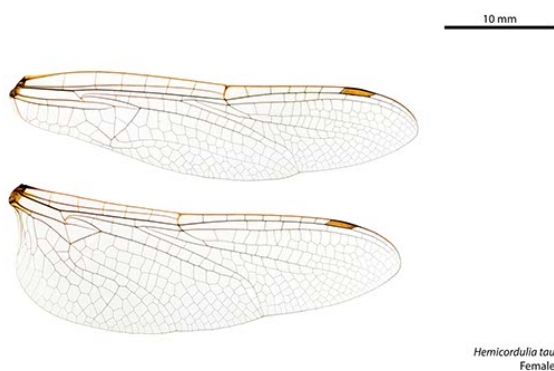
Hemicordulia koomina male



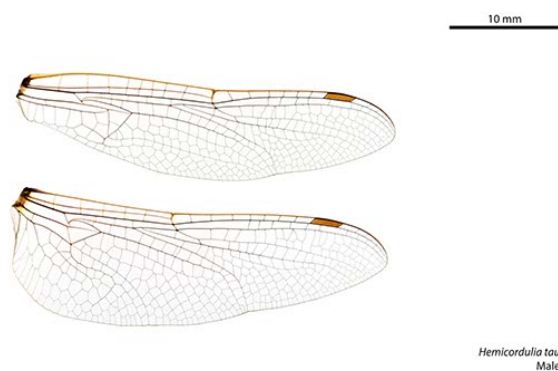
Hemicordulia superba female



Hemicordulia superba male



Hemicordulia tau female



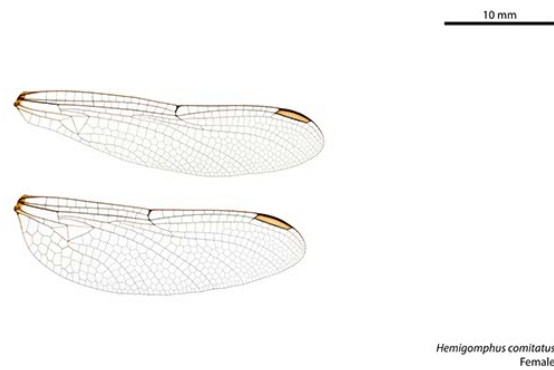
Hemicordulia tau male



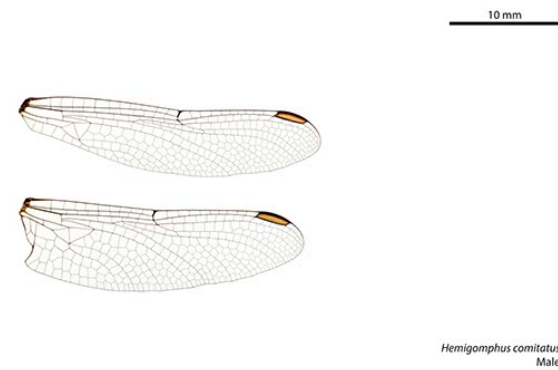
Hemigomphus atratus female



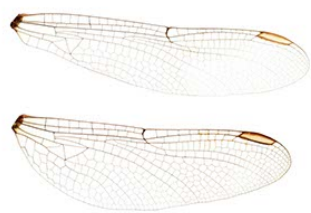
Hemigomphus atratus male



Hemigomphus comitatus female

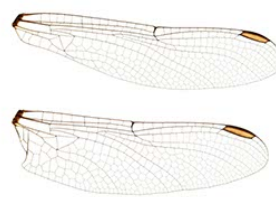


Hemigomphus comitatus male



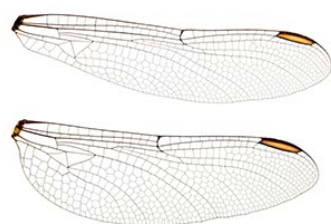
Hemigomphus cooloola
Female

Hemigomphus cooloola female



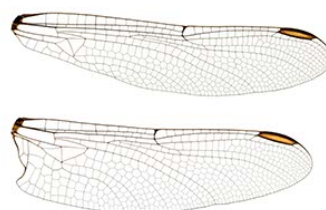
Hemigomphus cooloola
Male

Hemigomphus cooloola male



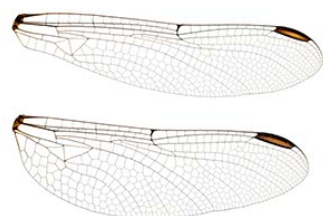
Hemigomphus gouldii
Female

Hemigomphus gouldii female



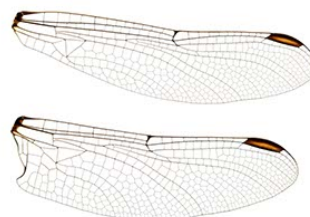
Hemigomphus gouldii
Male

Hemigomphus gouldii male



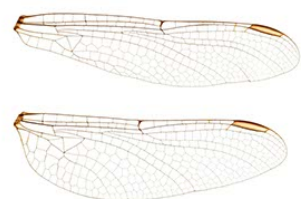
Hemigomphus heteroclytus
Female

Hemigomphus heteroclytus female



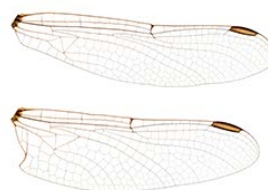
Hemigomphus heteroclytus
Male

Hemigomphus heteroclytus male



Hemigomphus magela
Female

Hemigomphus magela female



Hemigomphus magela
Male

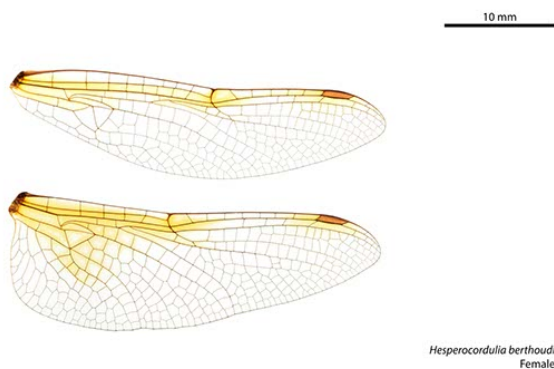
Hemigomphus magela male



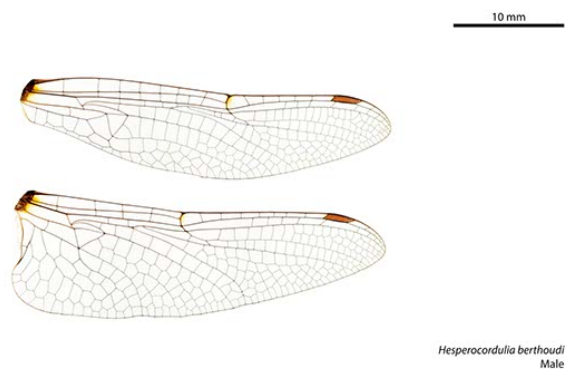
Hemigomphus theischingeri female



Hemigomphus theischingeri male

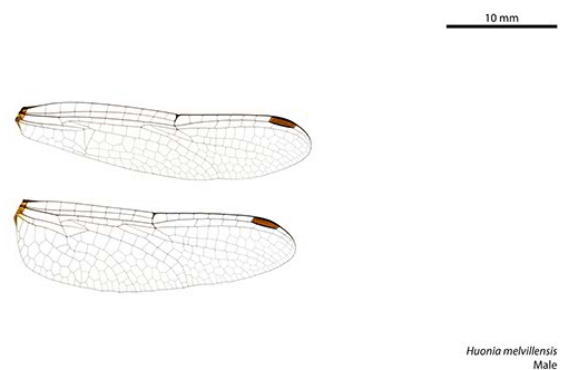


Hesperocordulia berthoudi female

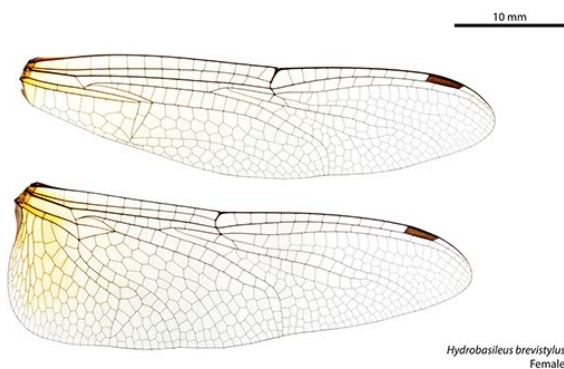


Hesperocordulia berthoudi male

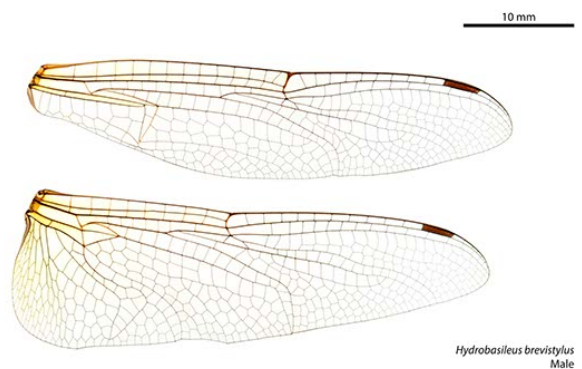
Huonia melvillensis female



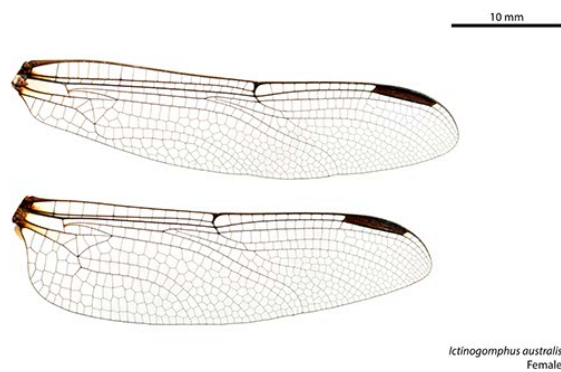
Huonia melvillensis male



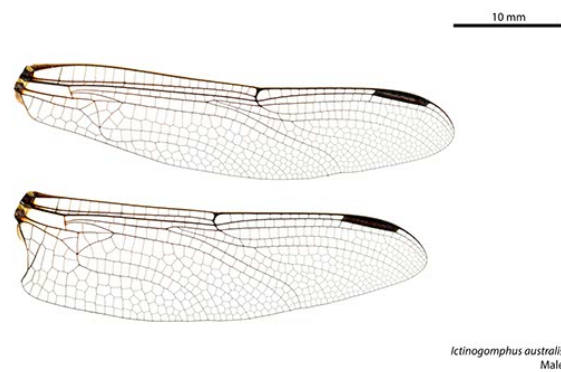
Hydrobasileus brevistylus female



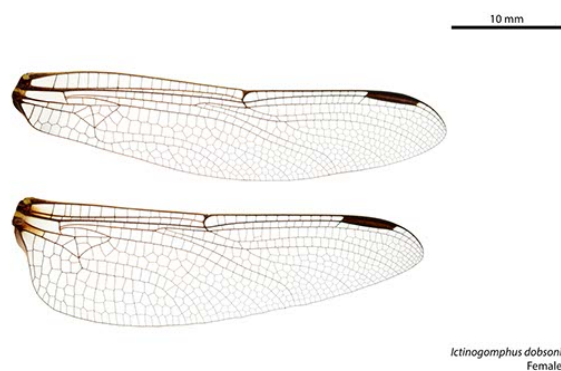
Hydrobasileus brevistylus male



Ictinogomphus australis female



Ictinogomphus australis male



Ictinogomphus dobsoni female



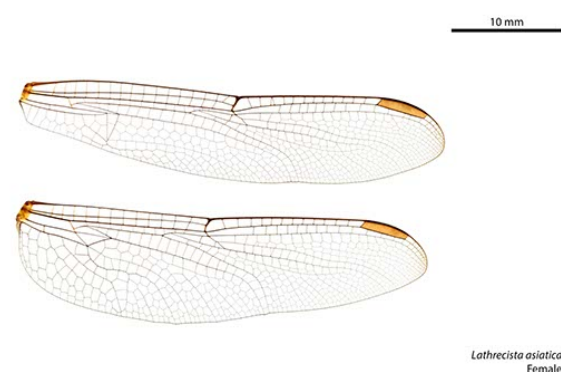
Ictinogomphus dobsoni male



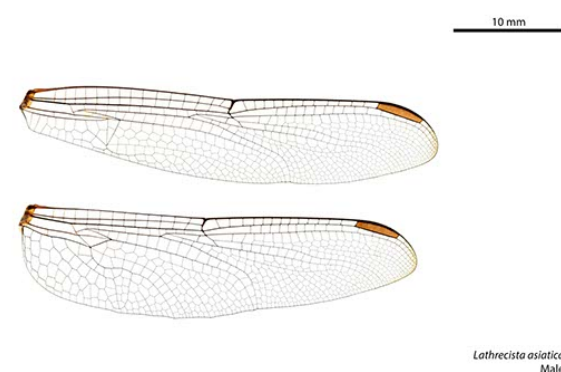
Ictinogomphus paulini female



Ictinogomphus paulini male



Lathrecista asiatica female



Lathrecista asiatica male

Lathrocordulia garrisoni female

Lathrocordulia garrisoni male

Lathrocordulia metallica female

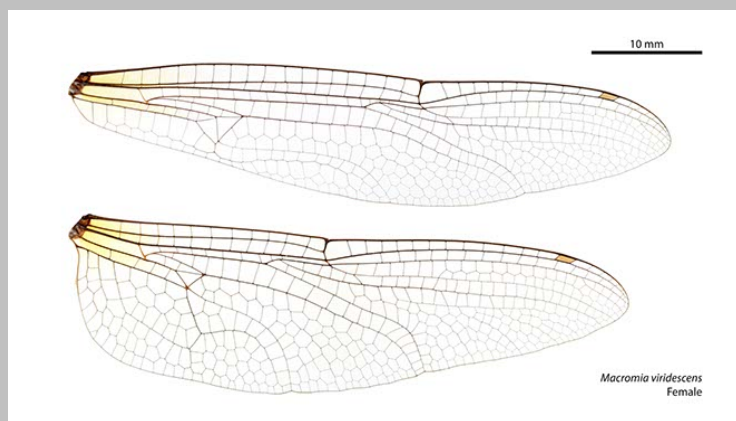
Lathrocordulia metallica male

Macrodiplax cora female

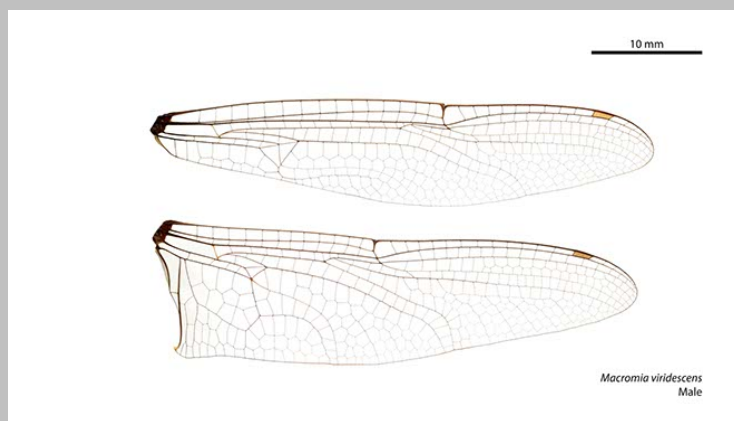
Macrodiplax cora male

Macromia tillyardi female

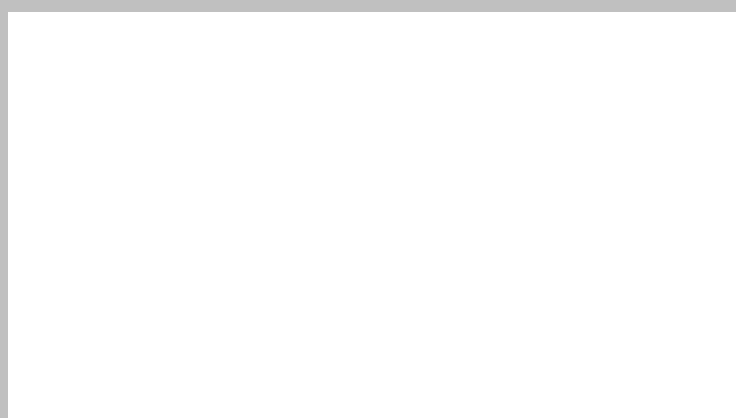
Macromia tillyardi male



Macromia viridescens female



Macromia viridescens male



Metaphya tillyardi female



Metaphya tillyardi male



Micromidia atrifrons female



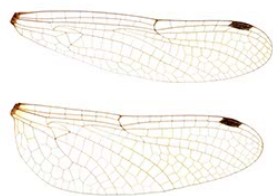
Micromidia atrifrons male



Micromidia convergens female



Micromidia convergens male



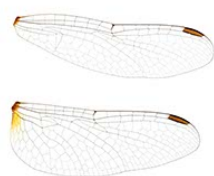
Micromidia rodericki
Female

Micromidia rodericki female



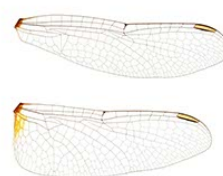
Micromidia rodericki
Male

Micromidia rodericki male



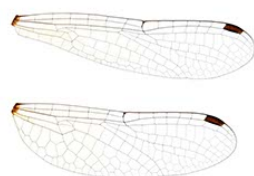
Nannodiplax rubra
Female

Nannodiplax rubra female



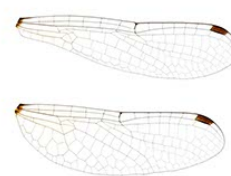
Nannodiplax rubra
Male

Nannodiplax rubra male



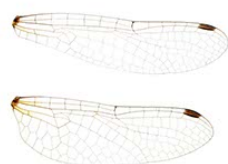
Nannophlebia eludens
Female

Nannophlebia eludens female



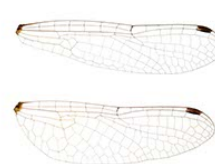
Nannophlebia eludens
Male

Nannophlebia eludens male



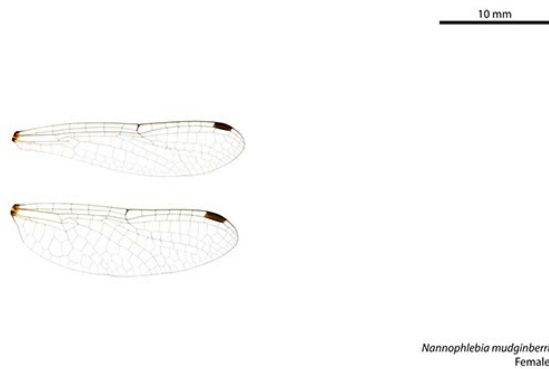
Nannophlebia injibandi
Female

Nannophlebia injibandi female

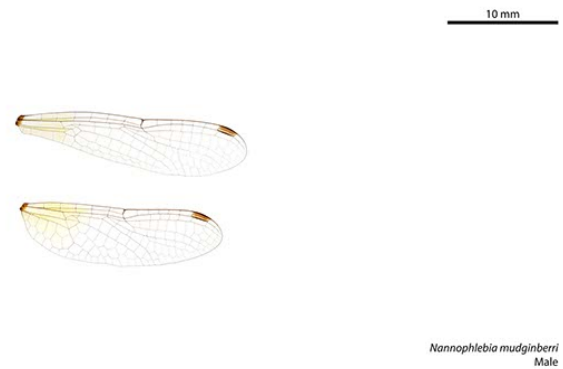


Nannophlebia injibandi
Male

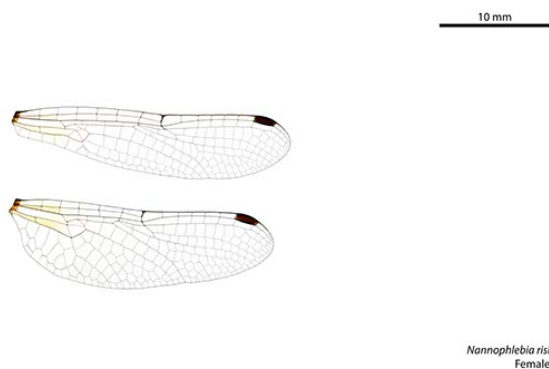
Nannophlebia injibandi male



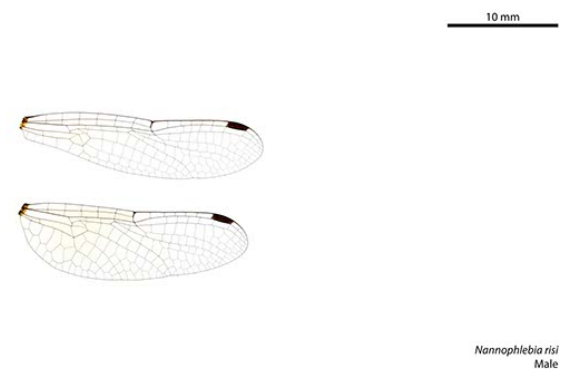
Nannophlebia mudginberri female



Nannophlebia mudginberri male



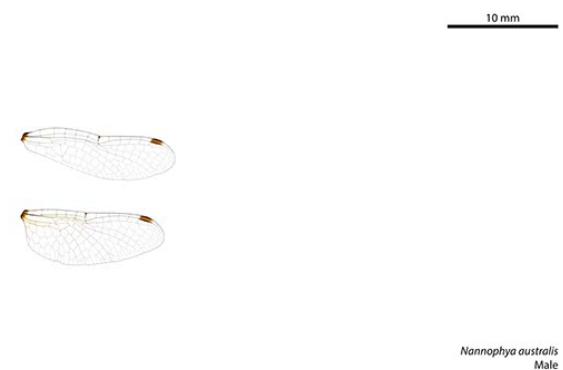
Nannophlebia risi female



Nannophlebia risi male



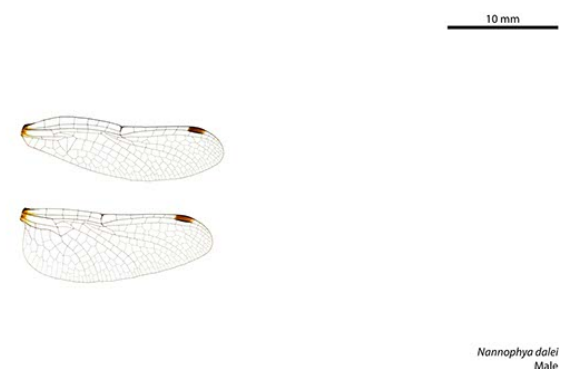
Nannophya australis female



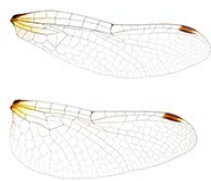
Nannophya australis male



Nannophya dalei female

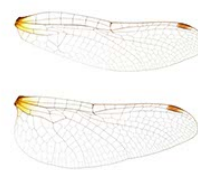


Nannophya dalei male



Nannophya occidentalis
Female

Nannophya occidentalis female



Nannophya occidentalis
Male

Nannophya occidentalis male



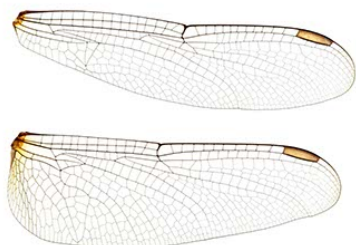
Nannophya paulsoni
Female

Nannophya paulsoni female



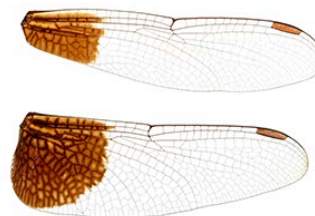
Nannophya paulsoni
Male

Nannophya paulsoni male



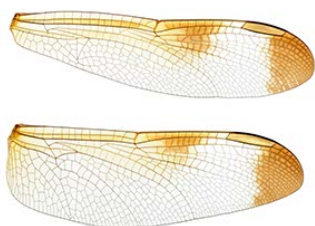
Neurothemis oligoneura
Female

Neurothemis oligoneura female



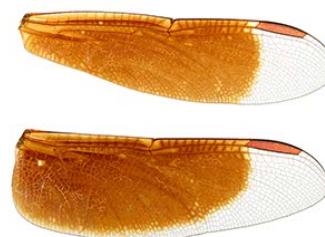
Neurothemis oligoneura
Male

Neurothemis oligoneura male



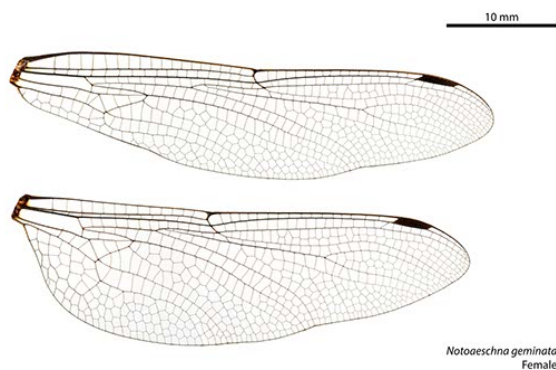
Neurothemis stigmatizans
Female

Neurothemis stigmatizans female

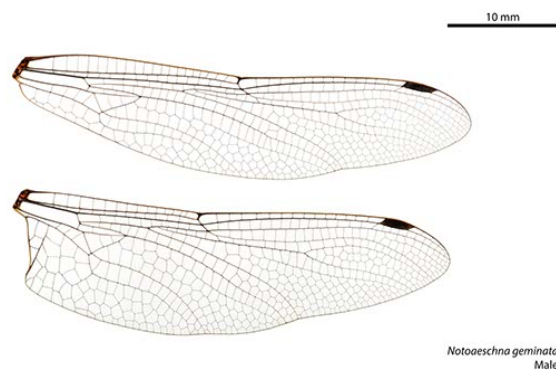


Neurothemis stigmatizans
Male

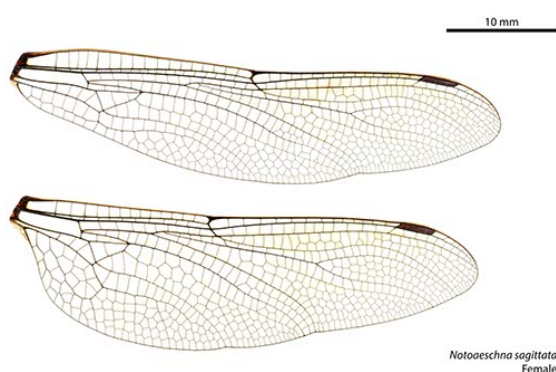
Neurothemis stigmatizans male



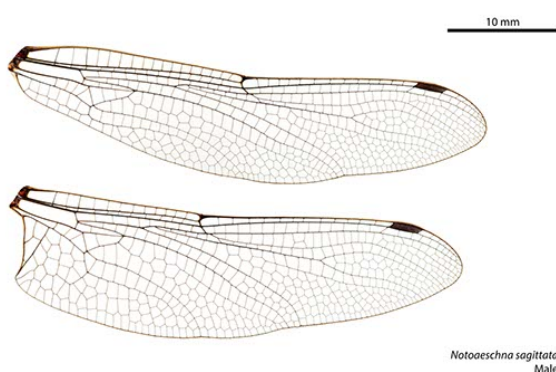
Notoaeschna geminata female



Notoaeschna geminata male



Notoaeschna sagittata female



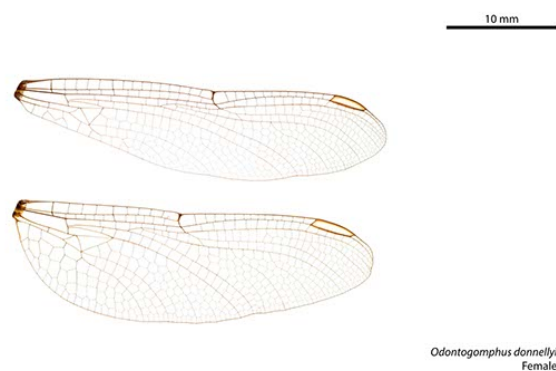
Notoaeschna sagittata male



Notolibellula bicolor female



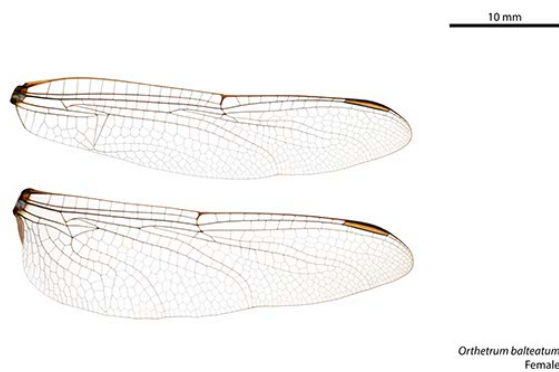
Notolibellula bicolor male



Odontogomphus donnellyi female



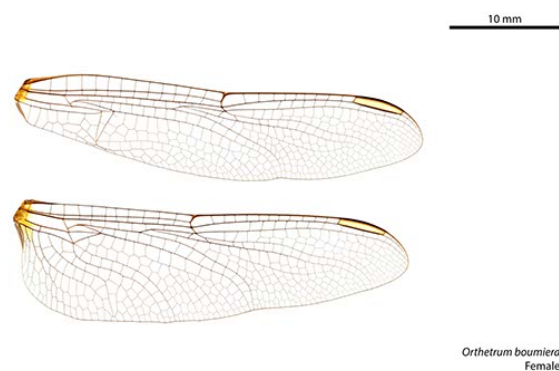
Odontogomphus donnellyi male



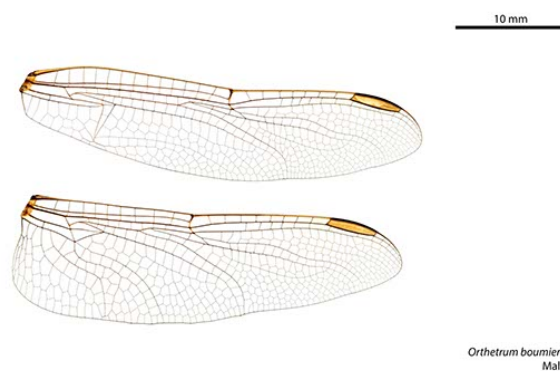
Orthetrum balteatum female



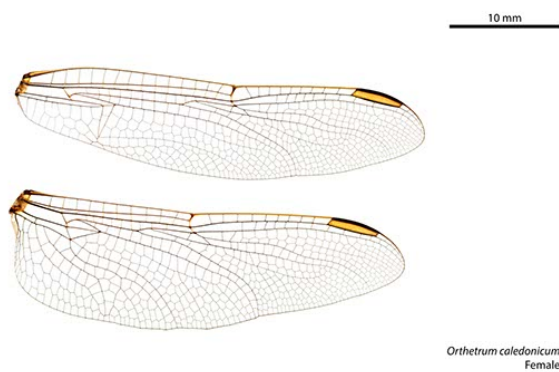
Orthetrum balteatum male



Orthetrum boumiera female



Orthetrum boumiera male



Orthetrum caledonicum female



Orthetrum caledonicum male



Orthetrum migratum female



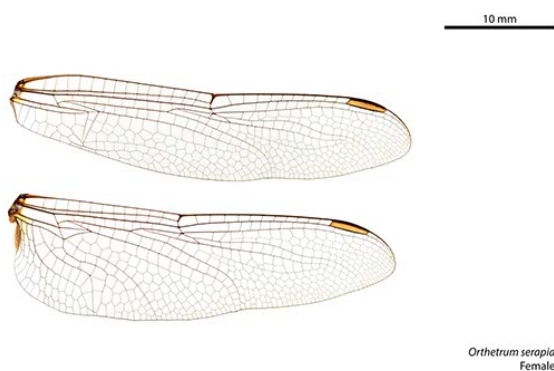
Orthetrum migratum male



Orthetrum sabina female



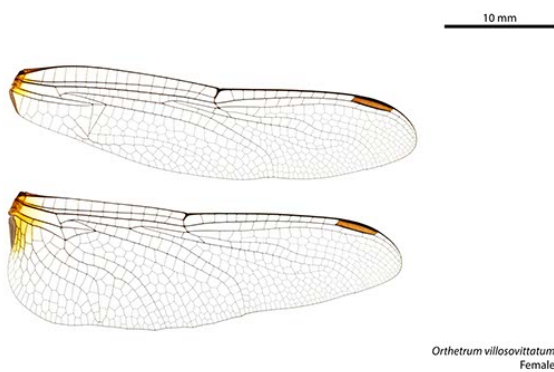
Orthetrum sabina male



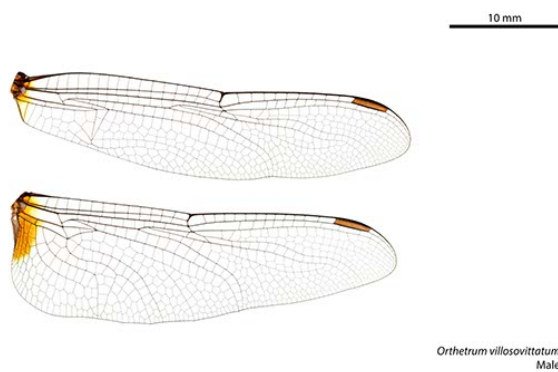
Orthetrum serapia female



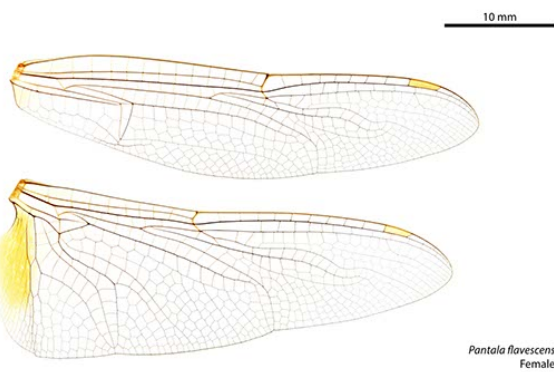
Orthetrum serapia male



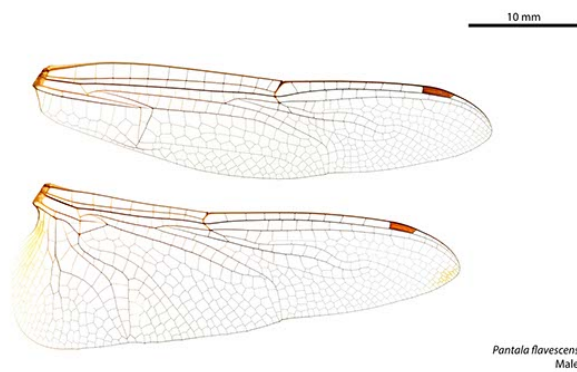
Orthetrum villosovittatum female



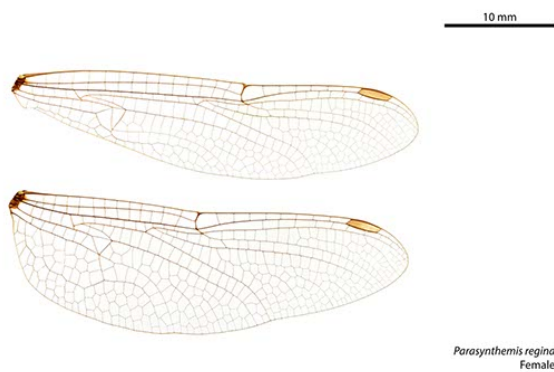
Orthetrum villosovittatum male



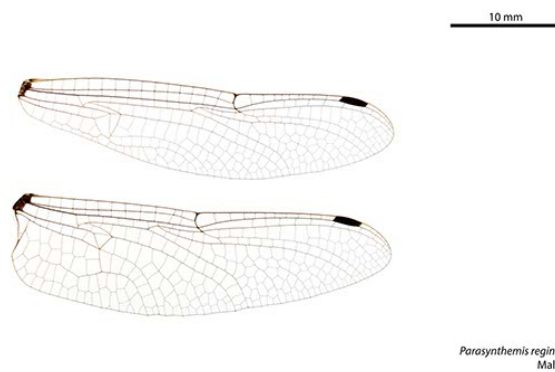
Pantala flavescens female



Pantala flavescens male



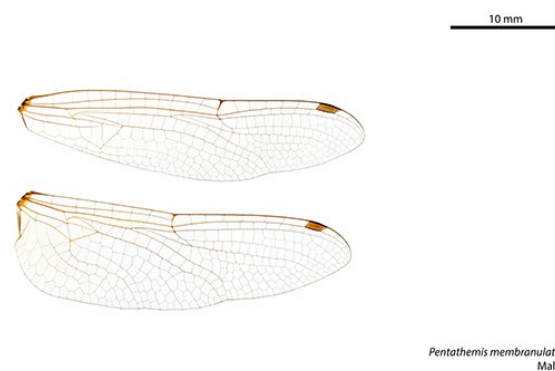
Parasyntemis regina female



Parasyntemis regina male



Pentathemis membranulata female



Pentathemis membranulata male



Petalura gigantea female



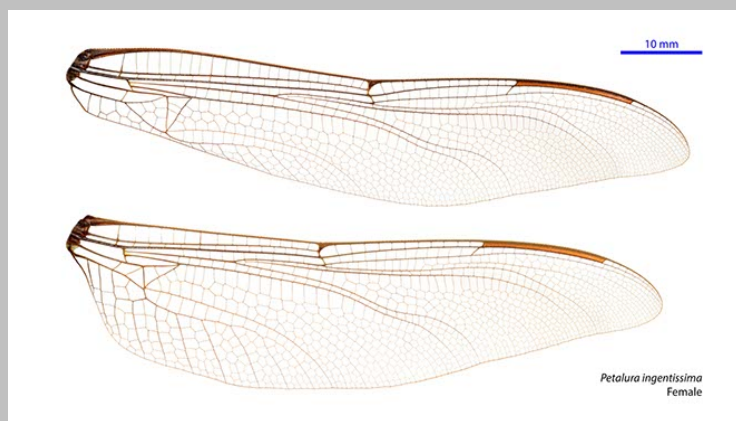
Petalura gigantea male



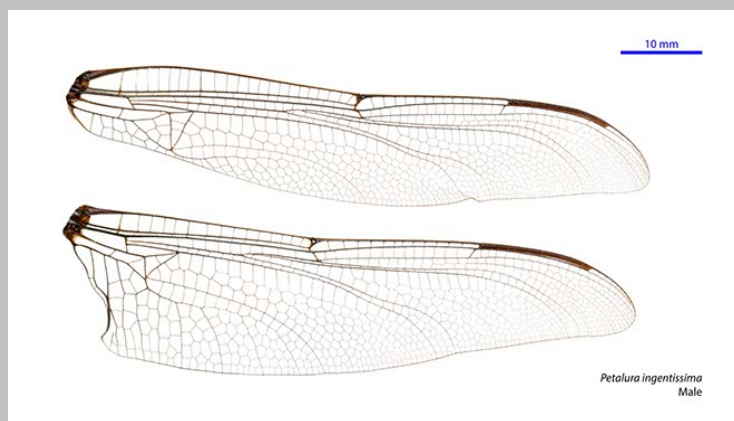
Petalura hesperia female



Petalura hesperia male



Petalura ingentissima female



Petalura ingentissima male



Petalura litorea female



Petalura litorea male



Potamarcha congener female



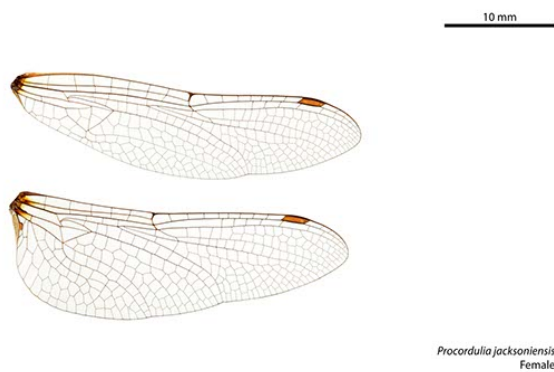
Potamarcha congener male



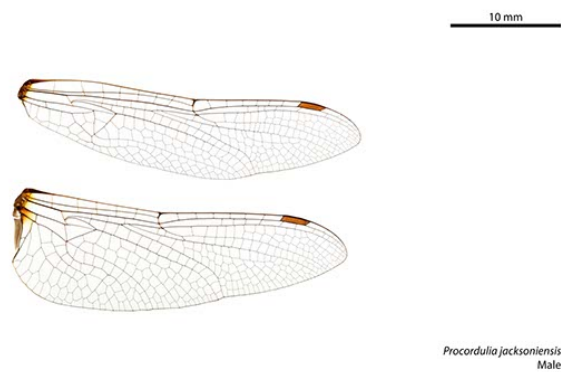
Procordulia affinis female



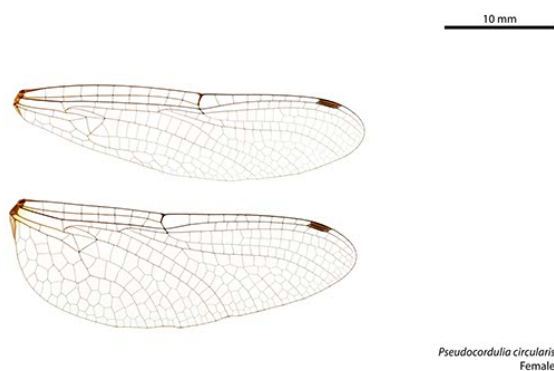
Procordulia affinis male



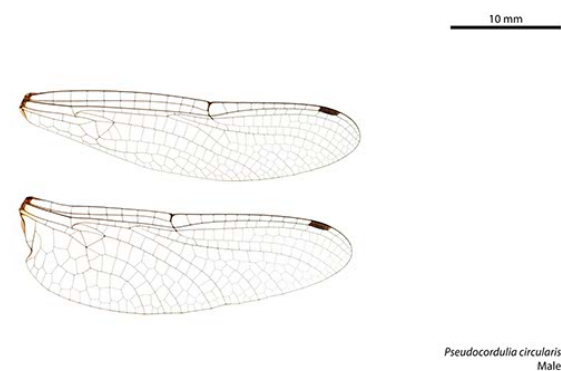
Procordulia jacksoniensis female



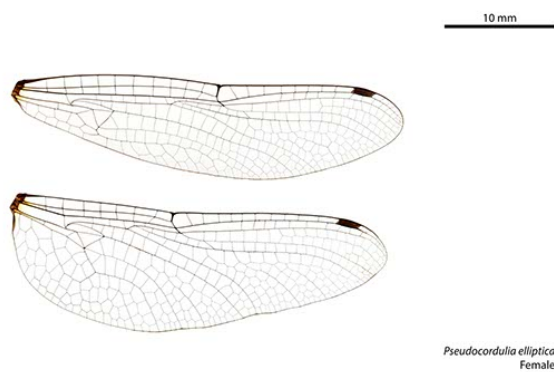
Procordulia jacksoniensis male



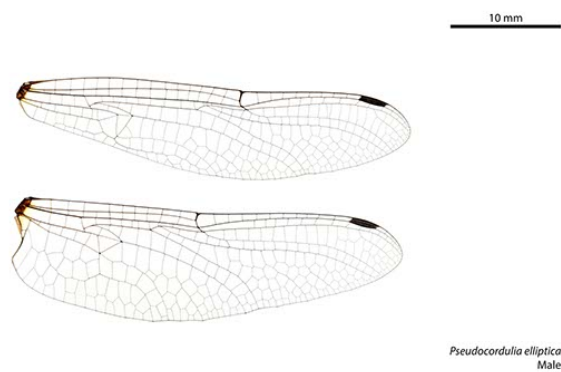
Pseudocordulia circularis female



Pseudocordulia circularis male



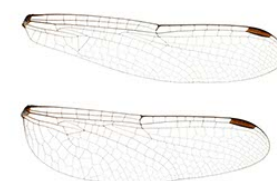
Pseudocordulia elliptica female



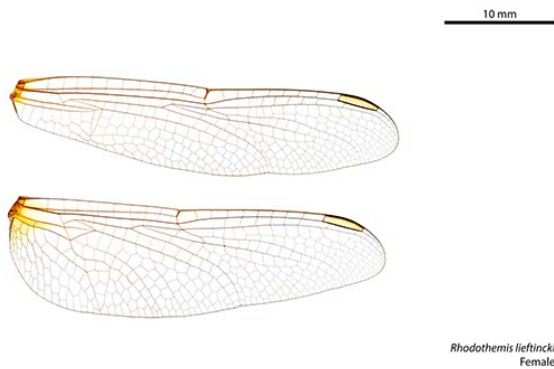
Pseudocordulia elliptica male



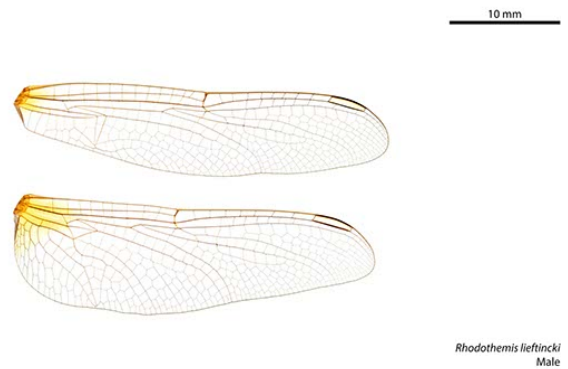
Raphismia bispina female



Raphismia bispina male



Rhodothemis lieftincki female



Rhodothemis lieftincki male



Rhyothemis braganza female



Rhyothemis braganza male



Rhyothemis graphiptera female



Rhyothemis graphiptera male



Rhyothemis phyllis female



Rhyothemis phyllis male



Rhyothemis princeps female



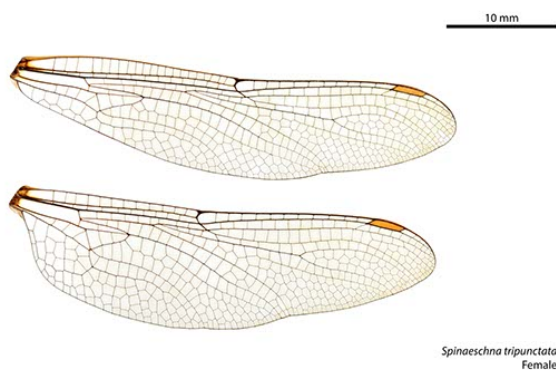
Rhyothemis princeps male



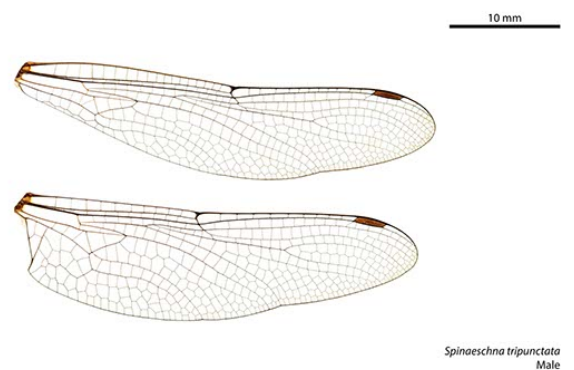
Rhyothemis resplendens female



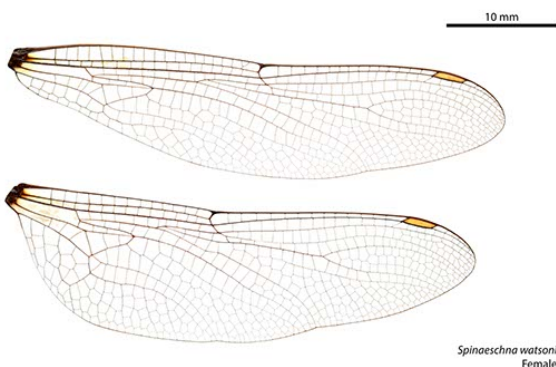
Rhyothemis resplendens male



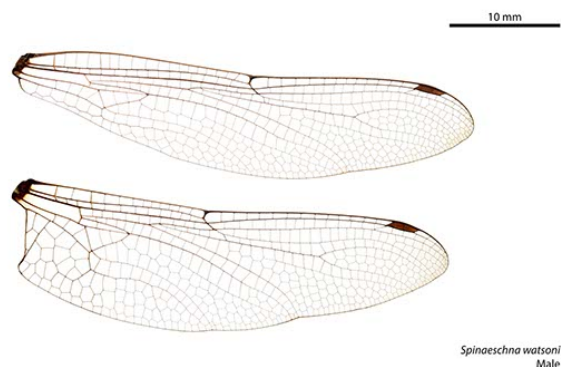
Spinaeschna tripunctata female



Spinaeschna tripunctata male



Spinaeschna watsoni female



Spinaeschna watsoni male



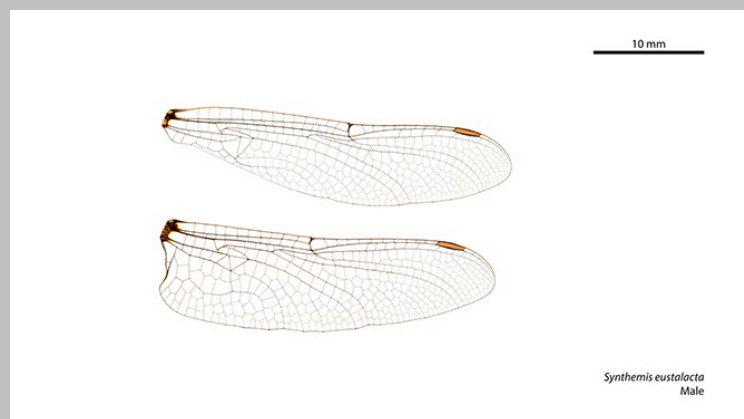
Synthemopsis gomphomacromioides female



Synthemopsis gomphomacromioides male



Synthemis eustalacta female



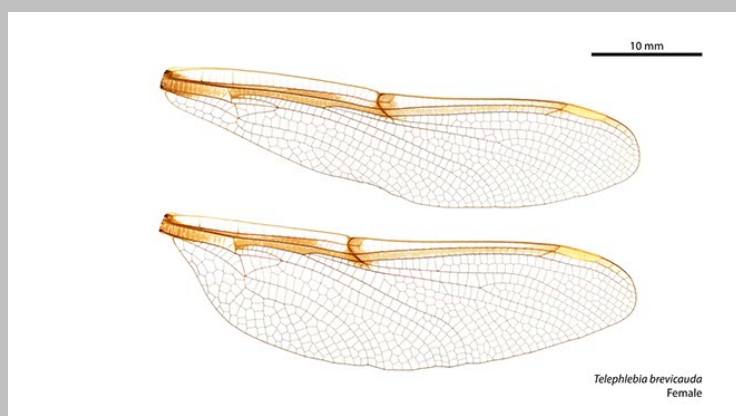
Synthemis eustalacta male



Synthemis tasmanica female



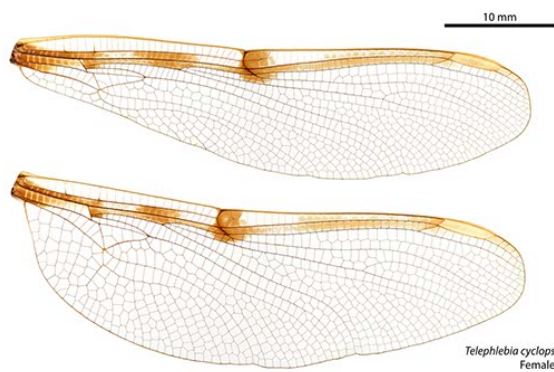
Synthemis tasmanica male



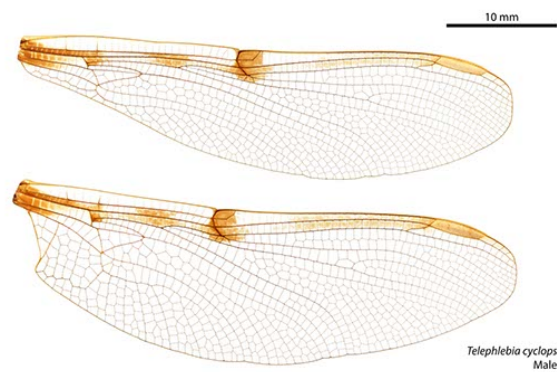
Telephlebia brevicauda female



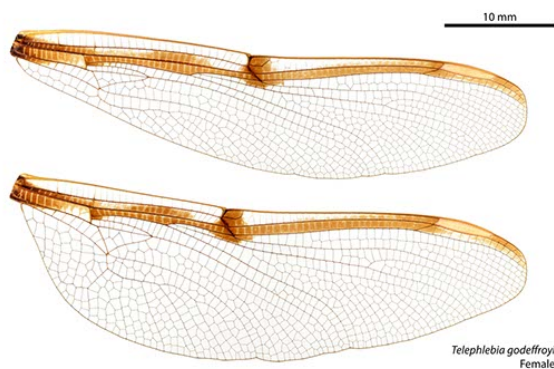
Telephlebia brevicauda male



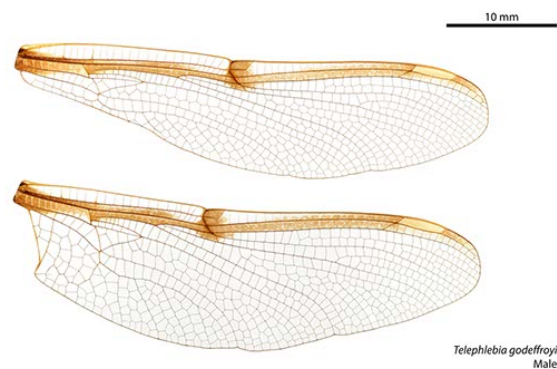
Telephlebia cyclops female



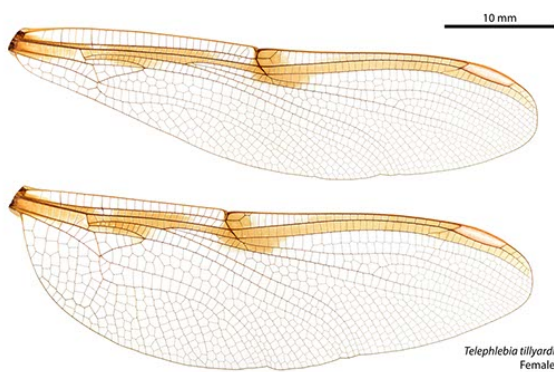
Telephlebia cyclops male



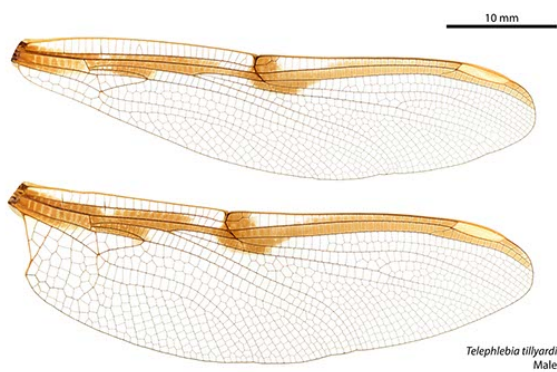
Telephlebia godeffroyi female



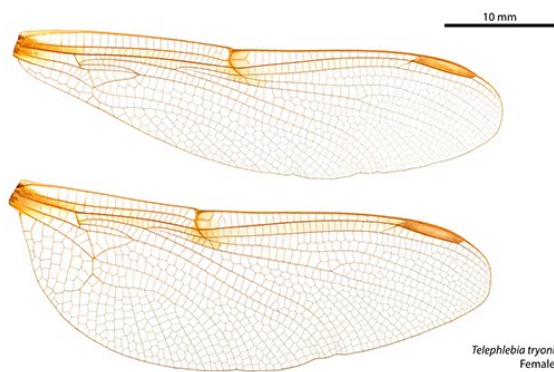
Telephlebia godeffroyi male



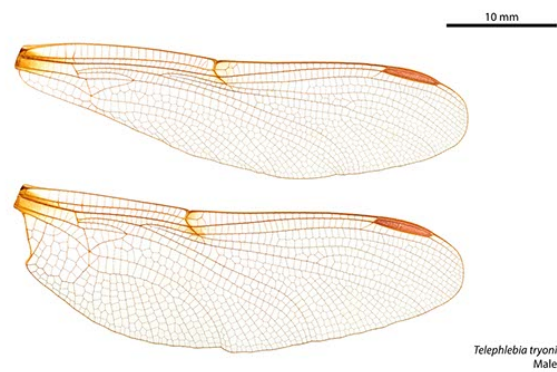
Telephlebia tillyardi female



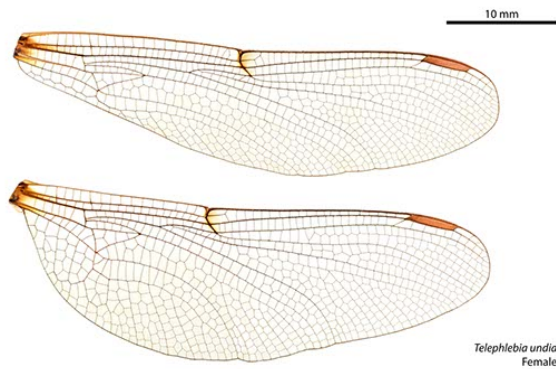
Telephlebia tillyardi male



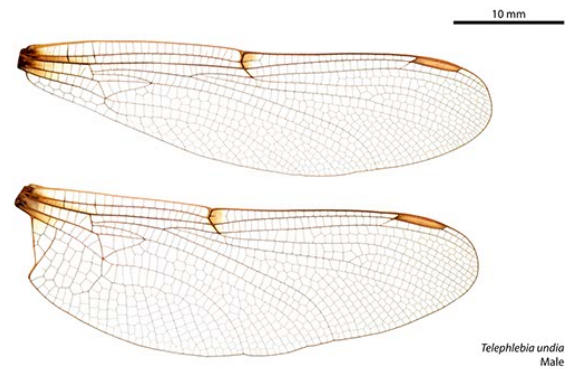
Telephlebia tryoni female



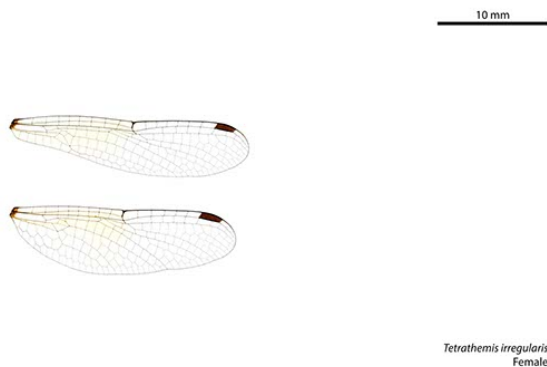
Telephlebia tryoni male



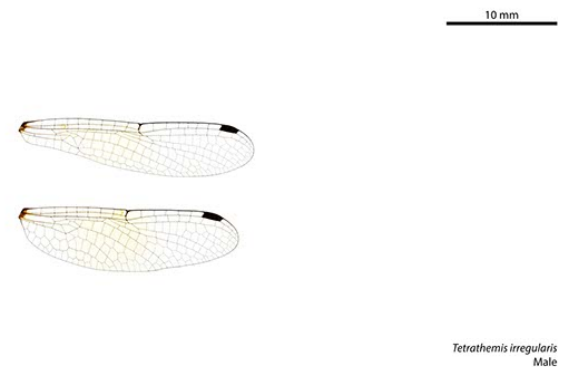
Telephlebia undia female



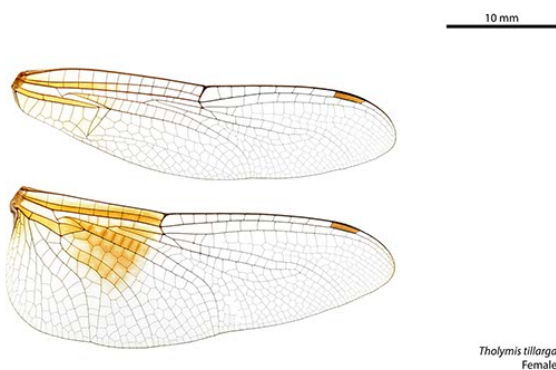
Telephlebia undia male



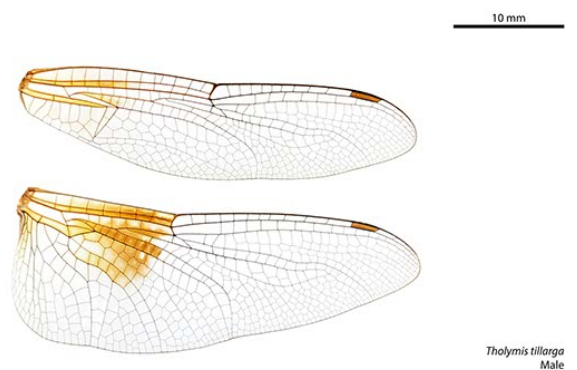
Tetrathemis irregularis female



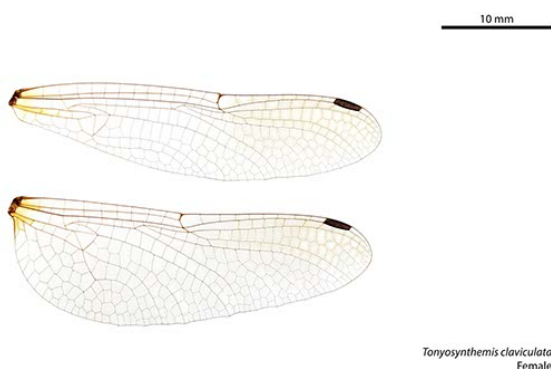
Tetrathemis irregularis male



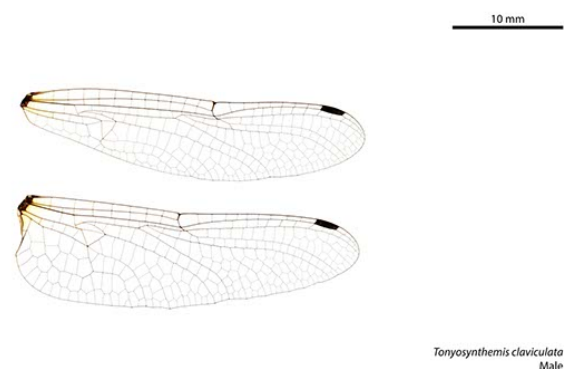
Tholymis tillarga female



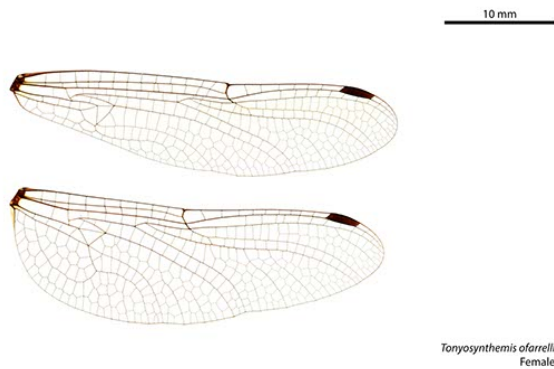
Tholymis tillarga male



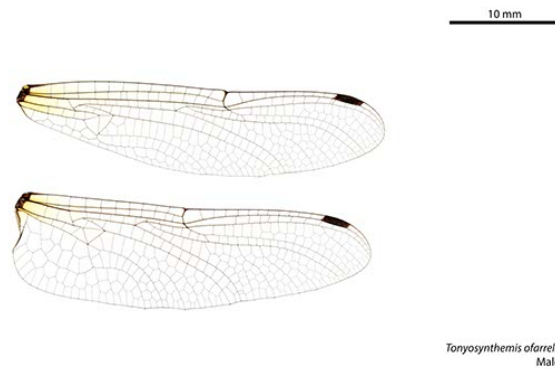
Tonyosynthemis claviculata female



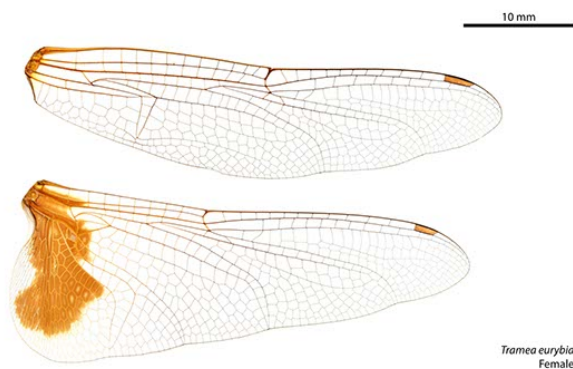
Tonyosynthemis claviculata male



Tonyosynthemis ofarrelli female



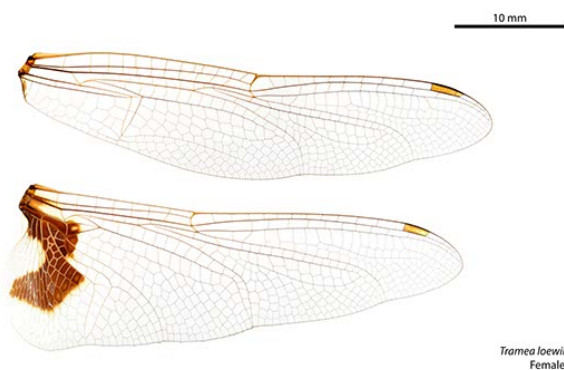
Tonyosynthemis ofarrelli male



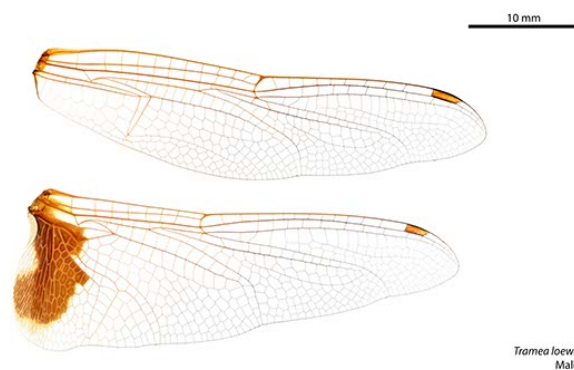
Tramea eurybia female



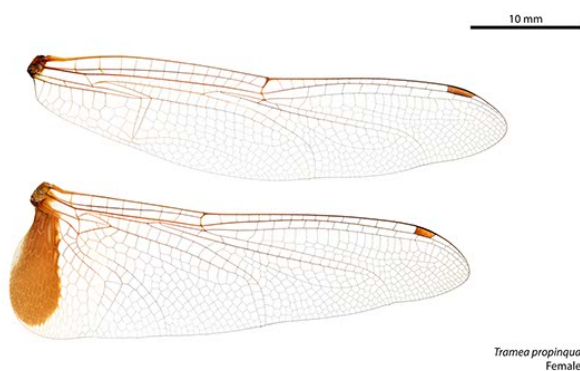
Tramea eurybia male



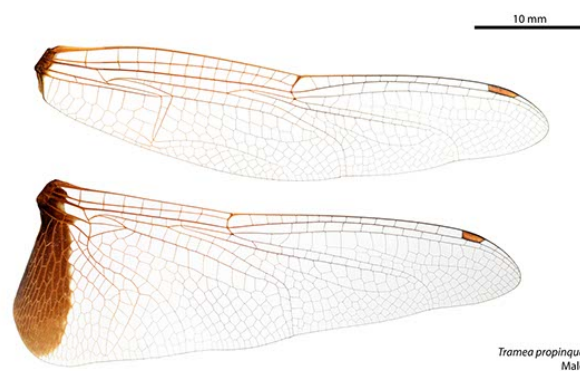
Tramea loewii female



Tramea loewii male



Tramea propinqua female



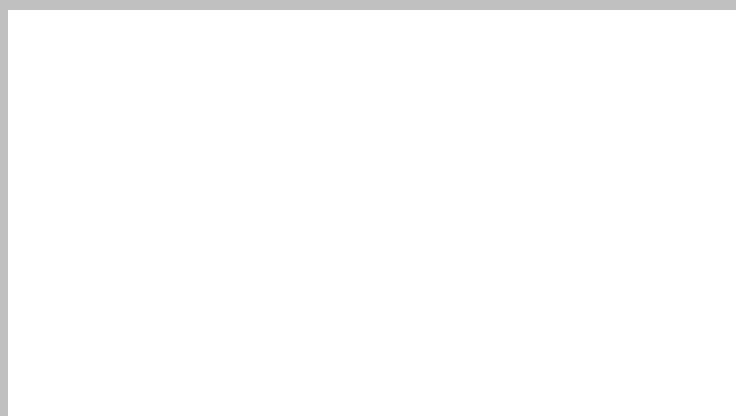
Tramea propinqua male



Tramea stenoloba female



Tramea stenoloba male



Urothemis aliena female



Urothemis aliena male



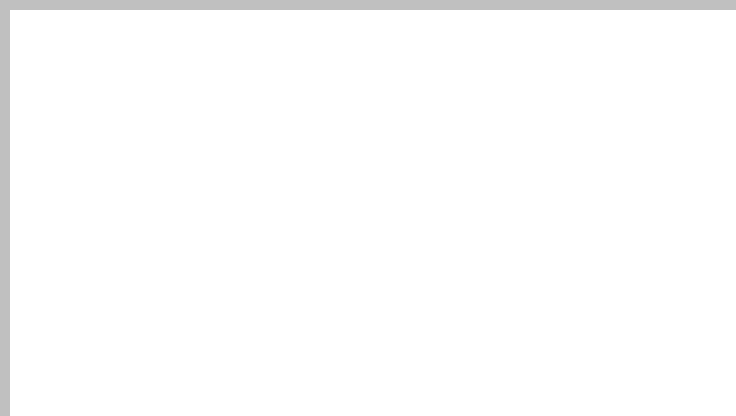
Zephyrogomphus lateralis female



Zephyrogomphus lateralis male



Zephyrogomphus longipositor female



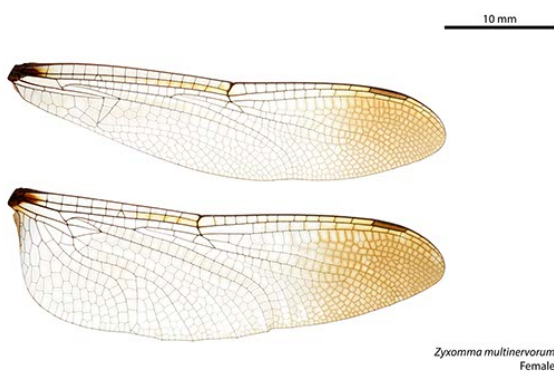
Zephyrogomphus longipositor male



Zyxomma elgneri female

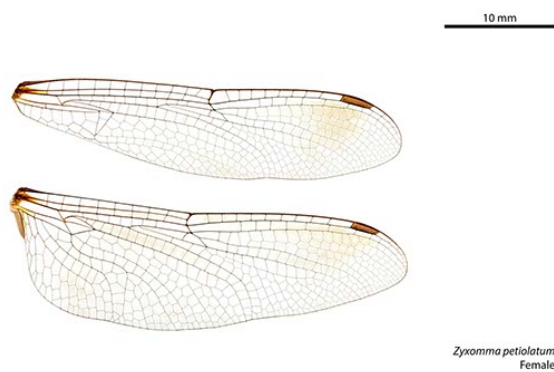


Zyxomma elgneri male

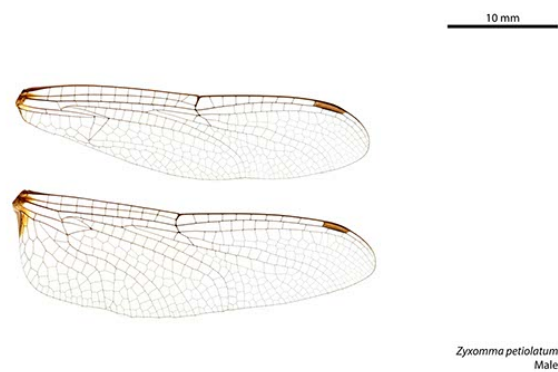


Zyxomma multinervorum female

Zyxomma multinervorum male



Zyxomma petiolatum female



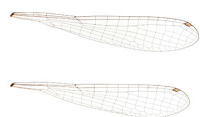
Zyxomma petiolatum male

Appendix 2—Zygoptera wings

Photographs of female and male wings of 111 species of Australian damselfly (Zygoptera). Each image shows a pair of right wings, a scale, a taxonomic name and sex. A link is provided in Appendix 3 to a high-resolution photograph of each species.

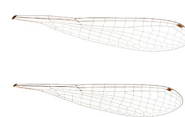
Images presented below are low resolution “thumbnails” providing a visual ready-reckoner and quick guide to more detailed imagery. The entire photographic library, at highest resolution, is openly accessible to view or download from *figshare* as either individual images or as a complete set of Australian Odonata wing images (Tann, 2020a–d).

All damselfly images are presented here at a consistent fixed scale for ready comparison between species.



Aciagrion fragilis
Female

Aciagrion fragilis female



Aciagrion fragilis
Male

Aciagrion fragilis male



Agriocnemis argentea
Female

Agriocnemis argentea female



Agriocnemis argentea
Male

Agriocnemis argentea male



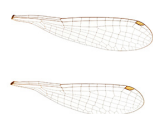
Agriocnemis dobsoni
Female

Agriocnemis dobsoni female



Agriocnemis dobsoni
Male

Agriocnemis dobsoni male



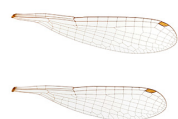
Agriocnemis femina
Female

Agriocnemis femina female



Agriocnemis femina
Male

Agriocnemis femina male



10 mm

Agriocnemis kunjina
Female

Agriocnemis kunjina female



10 mm

Agriocnemis kunjina
Male

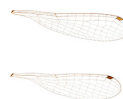
Agriocnemis kunjina male



10 mm

Agriocnemis pygmaea
Female

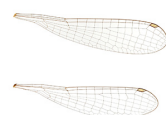
Agriocnemis pygmaea female



10 mm

Agriocnemis pygmaea
Male

Agriocnemis pygmaea male



10 mm

Agriocnemis rubricauda
Female

Agriocnemis rubricauda female



10 mm

Agriocnemis rubricauda
Male

Agriocnemis rubricauda male



10 mm

Archiargiolestes parvulus
Female

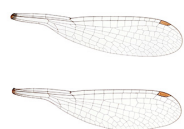
Archiargiolestes parvulus female



10 mm

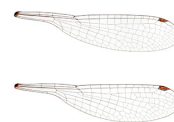
Archiargiolestes parvulus
Male

Archiargiolestes parvulus male



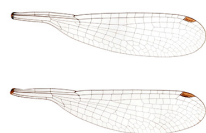
Archiargiolestes pusillissimus
Female

Archiargiolestes pusillissimus female



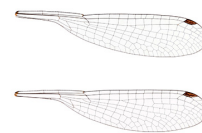
Archiargiolestes pusillissimus
Male

Archiargiolestes pusillissimus male



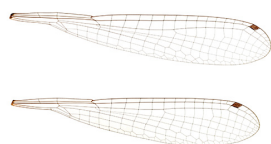
Archiargiolestes pusillus
Female

Archiargiolestes pusillus female



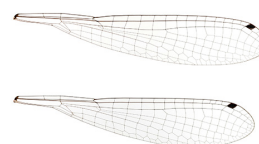
Archiargiolestes pusillus
Male

Archiargiolestes pusillus male



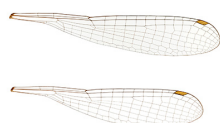
Archibasis mimetes
Female

Archibasis mimetes female



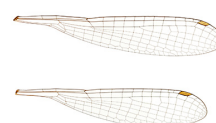
Archibasis mimetes
Male

Archibasis mimetes male



Argiocnemis rubescens
Female

Argiocnemis rubescens female



Argiocnemis rubescens
Male

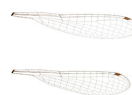
Argiocnemis rubescens male



10 mm

Austroagrion cyane
Female

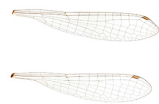
Austroagrion cyane female



10 mm

Austroagrion cyane
Male

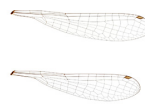
Austroagrion cyane male



10 mm

Austroagrion exclamations
Female

Austroagrion exclamations female



10 mm

Austroagrion exclamations
Male

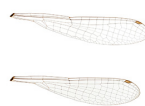
Austroagrion exclamations male



10 mm

Austroagrion pindrina
Female

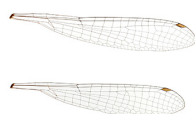
Austroagrion pindrina female



10 mm

Austroagrion pindrina
Male

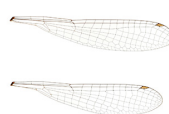
Austroagrion pindrina male



10 mm

Austroagrion watsoni
Female

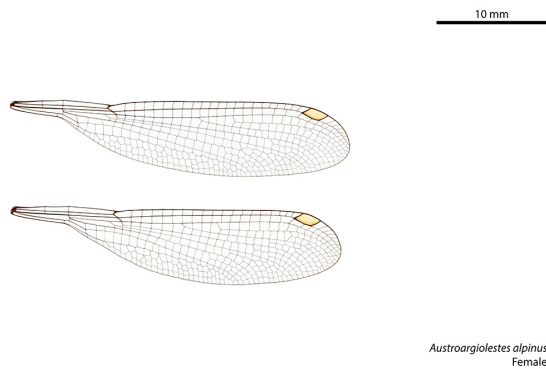
Austroagrion watsoni female



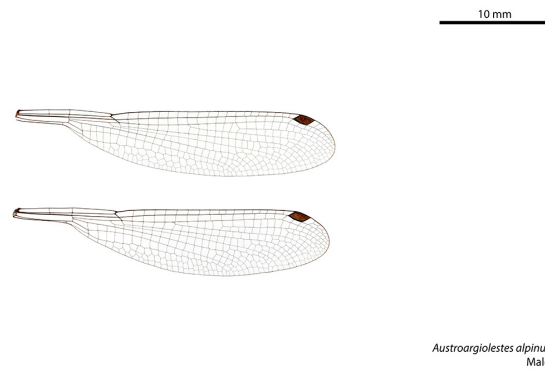
10 mm

Austroagrion watsoni
Male

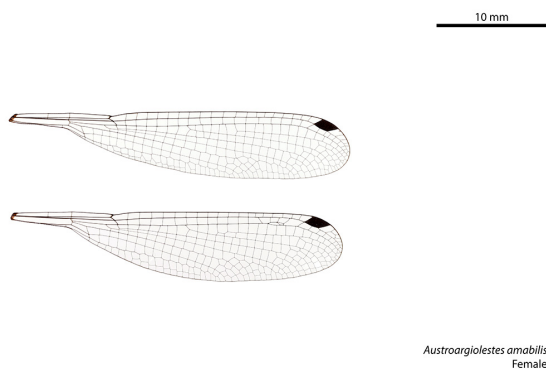
Austroagrion watsoni male



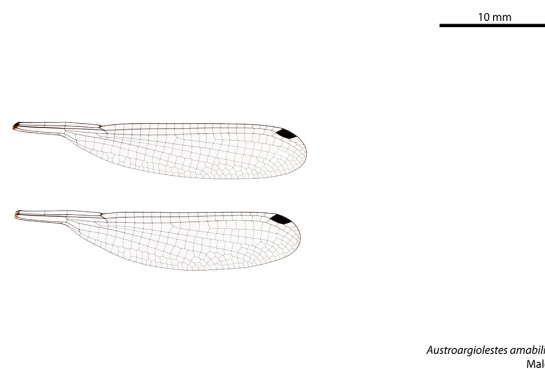
Austroargiolestes alpinus female



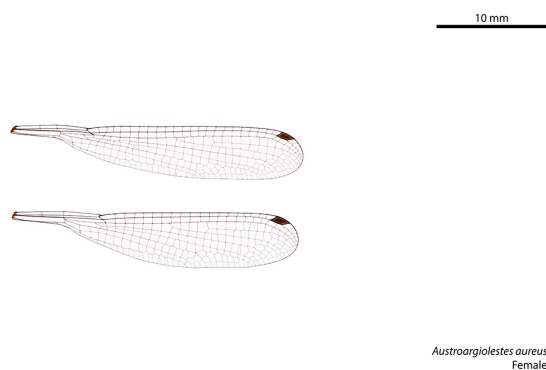
Austroargiolestes alpinus male



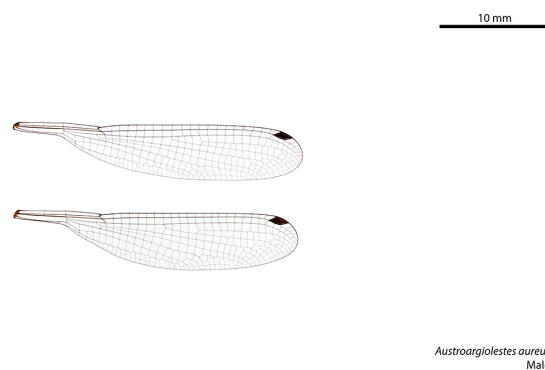
Austroargiolestes amabilis female



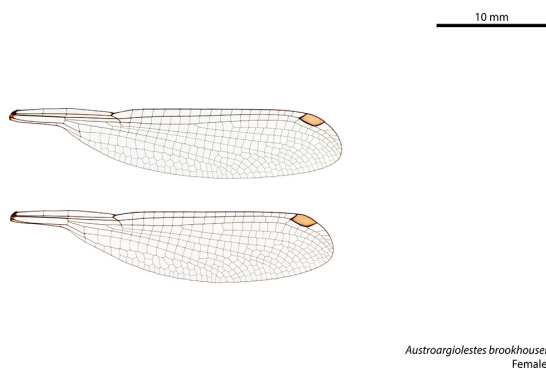
Austroargiolestes amabilis male



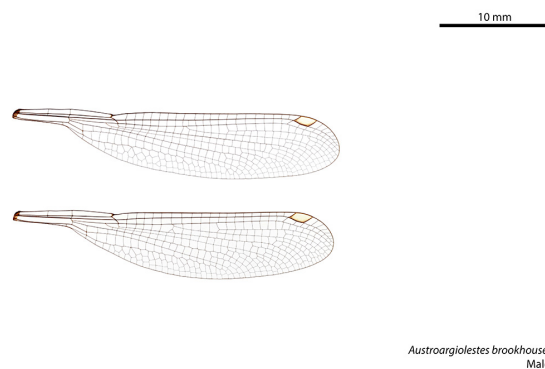
Austroargiolestes aureus female



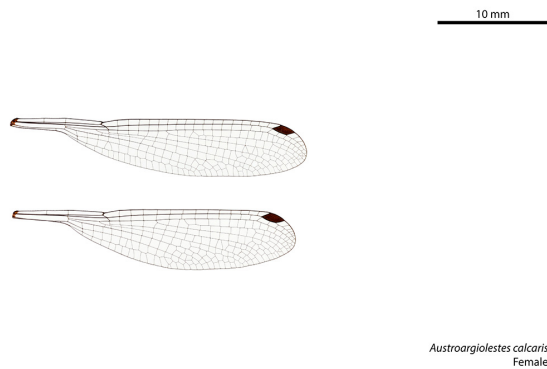
Austroargiolestes aureus male



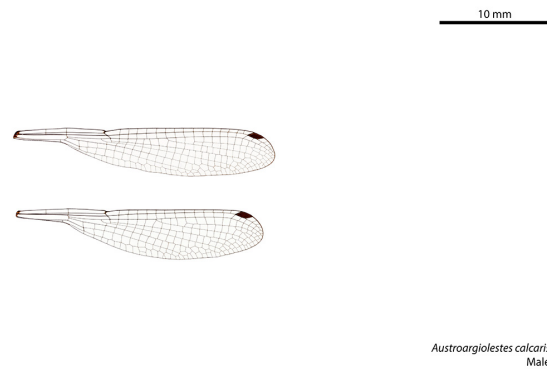
Austroargiolestes brookhousei female



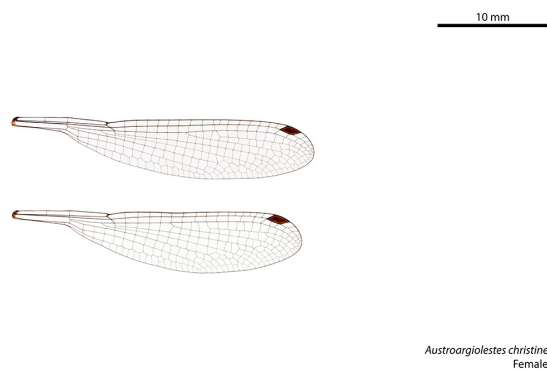
Austroargiolestes brookhousei male



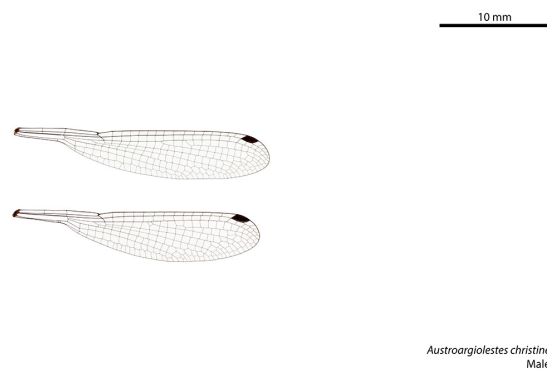
Austroargiolestes calcaris female



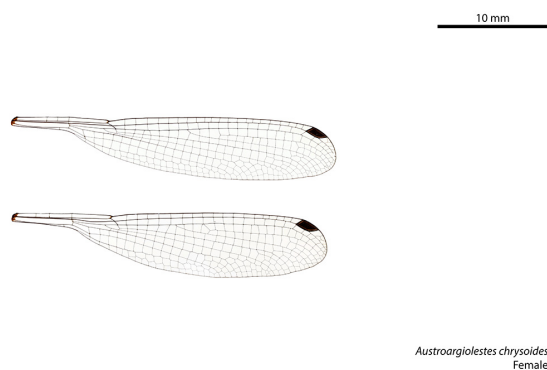
Austroargiolestes calcaris male



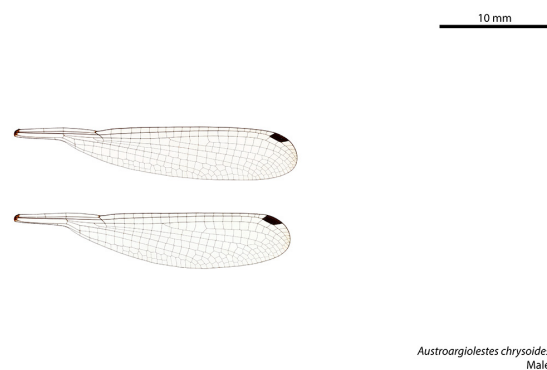
Austroargiolestes christine female



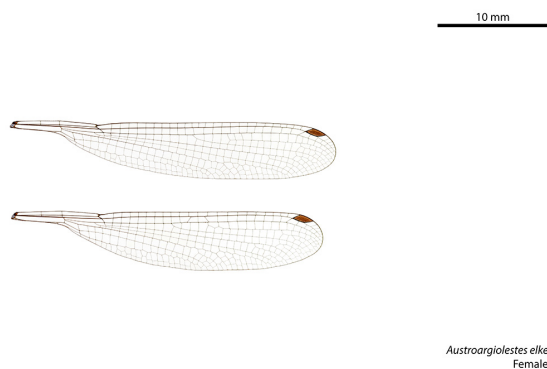
Austroargiolestes christine male



Austroargiolestes chrysoides female



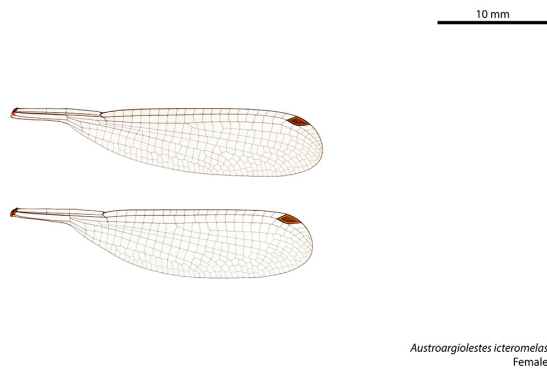
Austroargiolestes chrysoides male



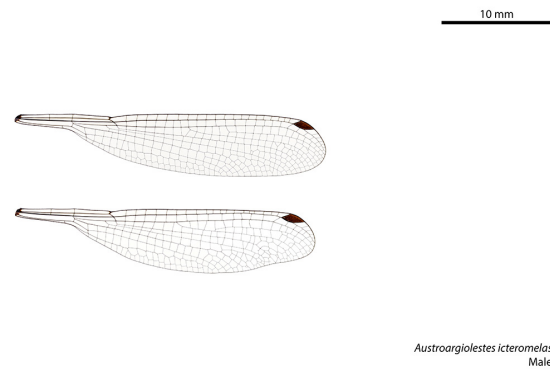
Austroargiolestes elke female



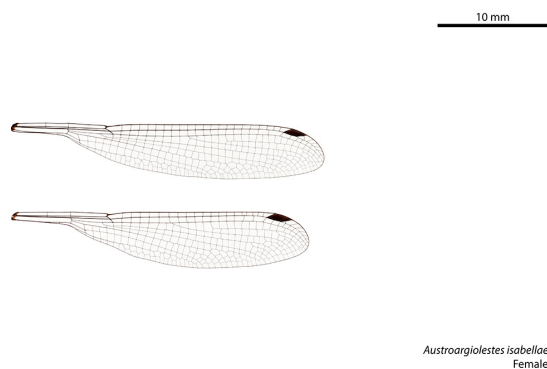
Austroargiolestes elke male



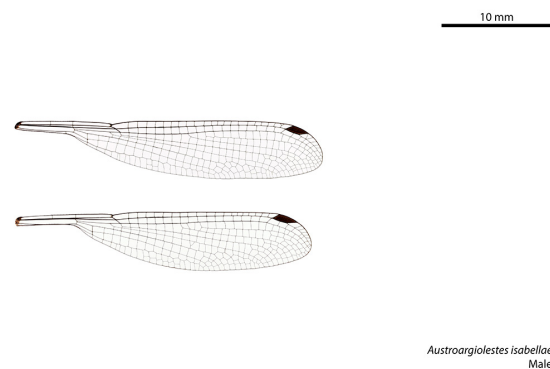
Austroargiolestes icteromelas female



Austroargiolestes icteromelas male



Austroargiolestes isabellae female



Austroargiolestes isabellae male



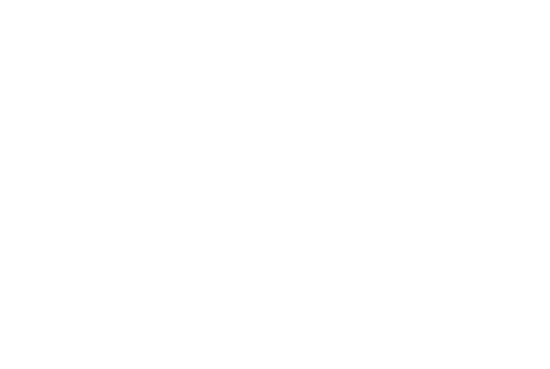
Austrocnemis maccullochi female



Austrocnemis maccullochi male



Austrocnemis obscura female



Austrocnemis obscura male



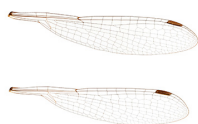
Austrocnemis splendida
Female

Austrocnemis splendida female



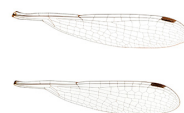
Austrocnemis splendida
Male

Austrocnemis splendida male



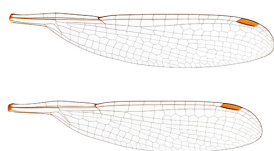
Austrolestes aleison
Female

Austrolestes aleison female



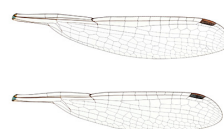
Austrolestes aleison
Male

Austrolestes aleison male



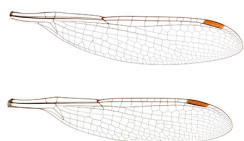
Austrolestes analis
Female

Austrolestes analis female



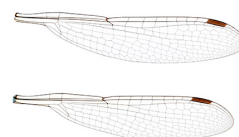
Austrolestes analis
Male

Austrolestes analis male



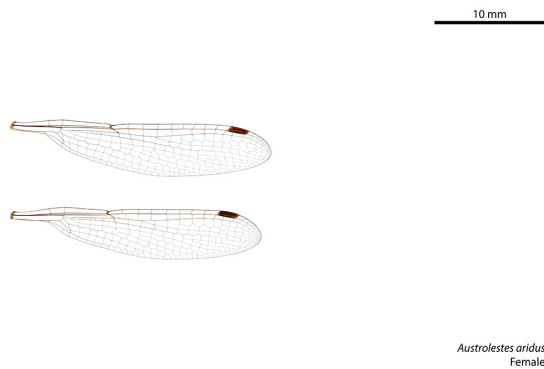
Austrolestes annulosus
Female

Austrolestes annulosus female

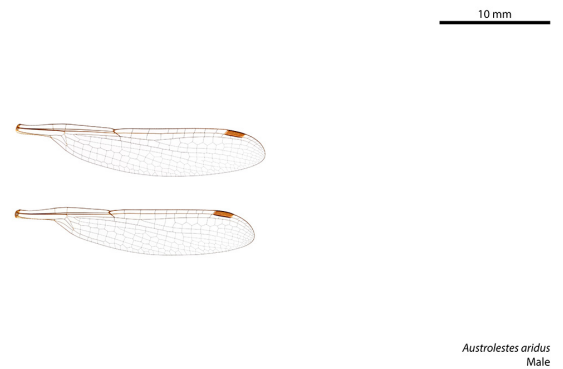


Austrolestes annulosus
Male

Austrolestes annulosus male



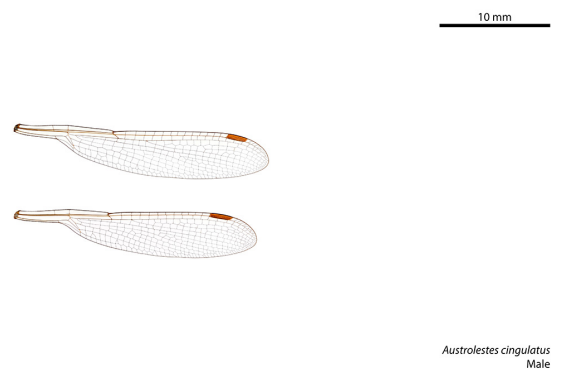
Austrolestes aridus female



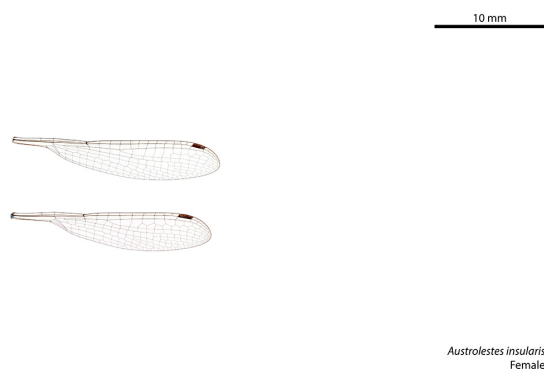
Austrolestes aridus male



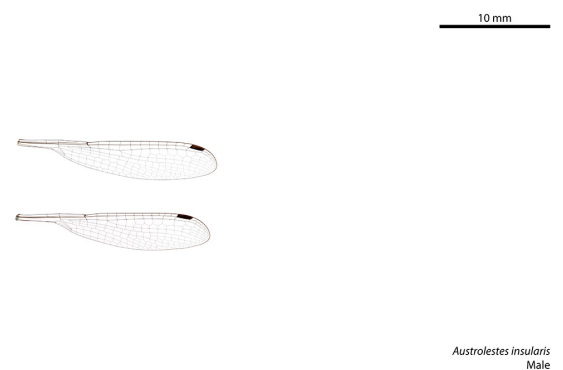
Austrolestes cingulatus female



Austrolestes cingulatus male



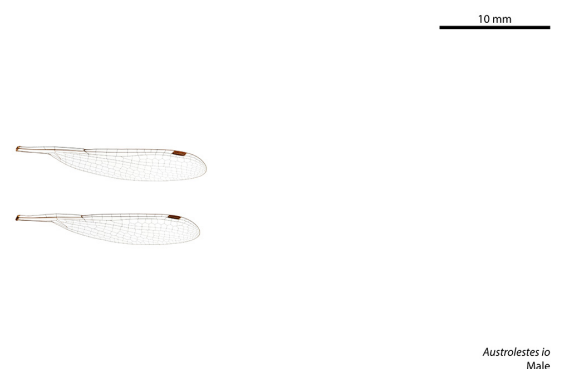
Austrolestes insularis female



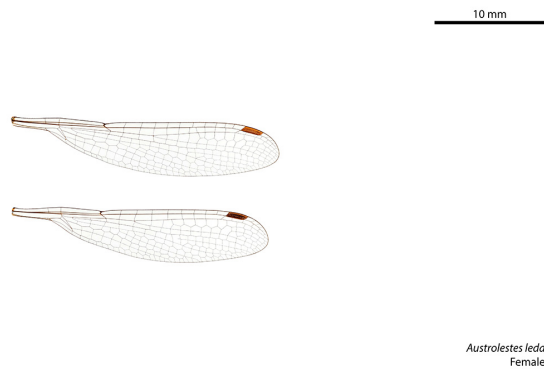
Austrolestes insularis male



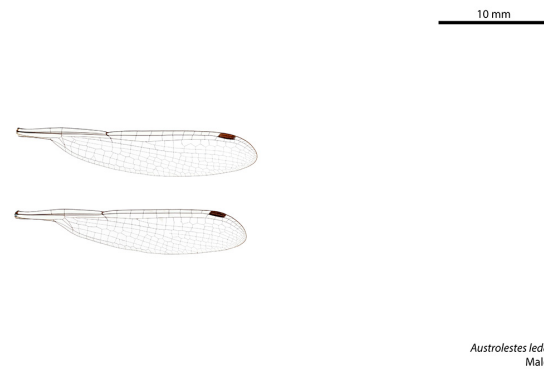
Austrolestes io female



Austrolestes io male



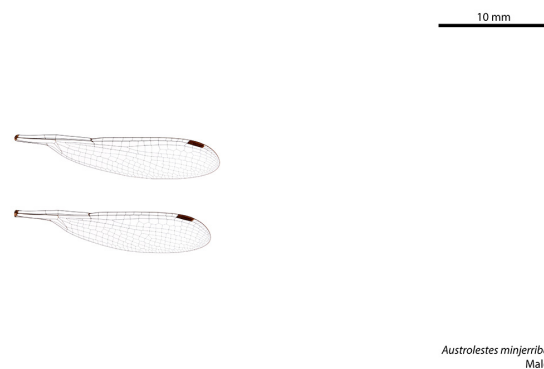
Austrolestes leda female



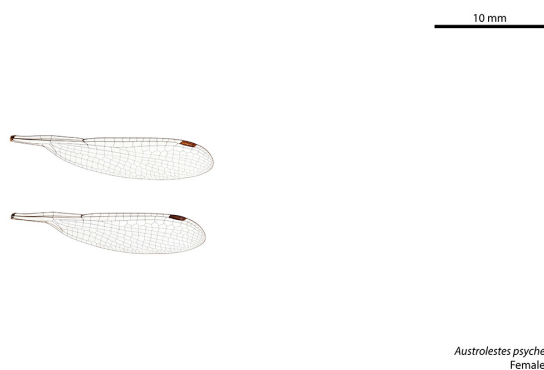
Austrolestes leda male



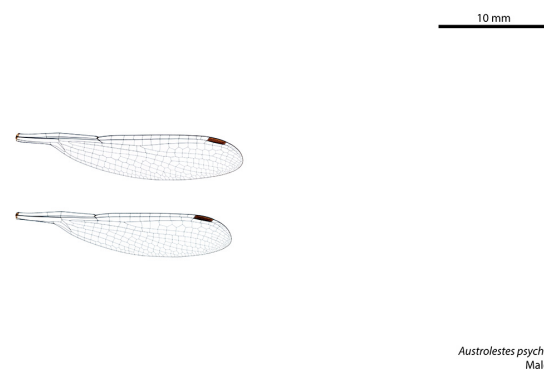
Austrolestes minjerriba female



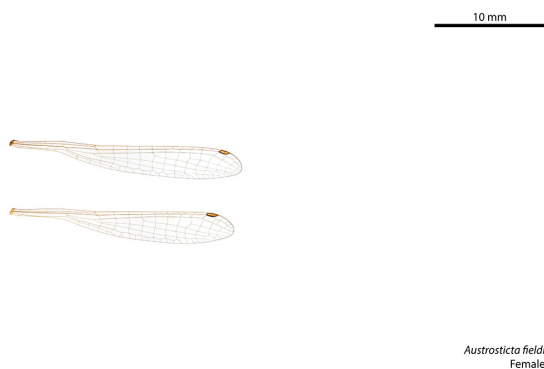
Austrolestes minjerriba male



Austrolestes psyche female



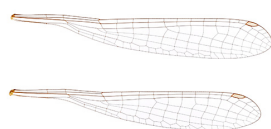
Austrolestes psyche male



Austrosticta fieldi female



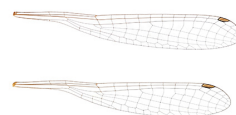
Austrosticta fieldi male



10 mm

Austrosticta frater
Female

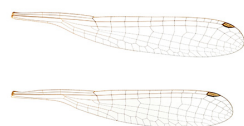
Austrosticta frater female



10 mm

Austrosticta frater
Male

Austrosticta frater male



10 mm

Austrosticta soror
Female

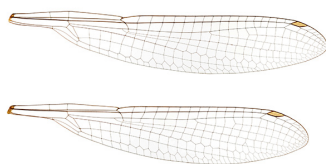
Austrosticta soror female



10 mm

Austrosticta soror
Male

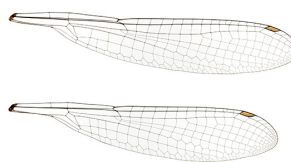
Austrosticta soror male



10 mm

Caligrion billinghursti
Female

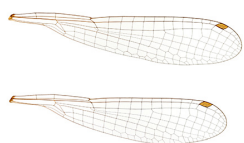
Caligrion billinghursti female



10 mm

Caligrion billinghursti
Male

Caligrion billinghursti male



10 mm

Ceriagrion aeruginosum
Female

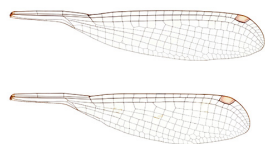
Ceriagrion aeruginosum female



10 mm

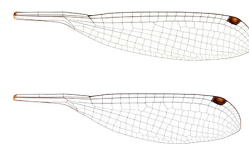
Ceriagrion aeruginosum
Male

Ceriagrion aeruginosum male



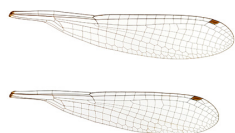
Chorismagrion risi
Female

Chorismagrion risi female



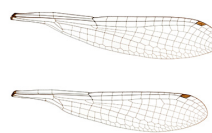
Chorismagrion risi
Male

Chorismagrion risi male



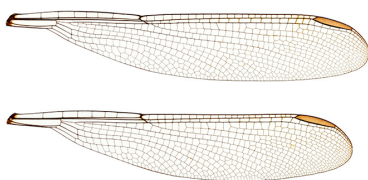
Coenagrion lyelli
Female

Coenagrion lyelli female



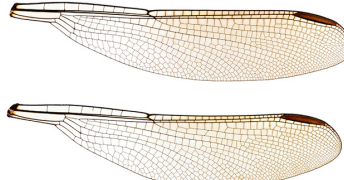
Coenagrion lyelli
Male

Coenagrion lyelli male



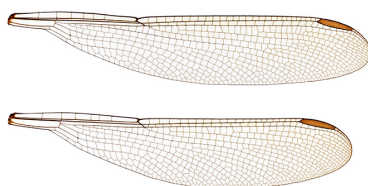
Diphlebia coerulescens
Female

Diphlebia coerulescens female



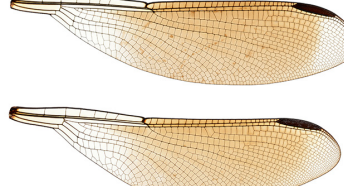
Diphlebia coerulescens
Male

Diphlebia coerulescens male



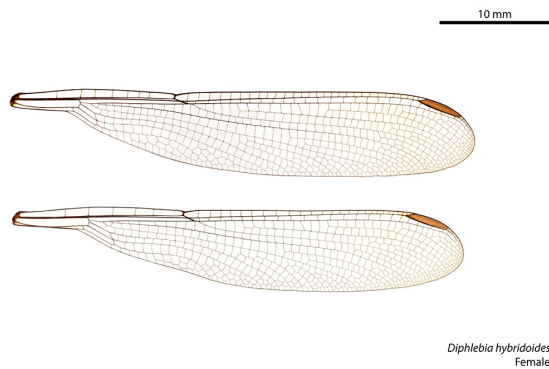
Diphlebia euphoeoides
Female

Diphlebia euphoeoides female

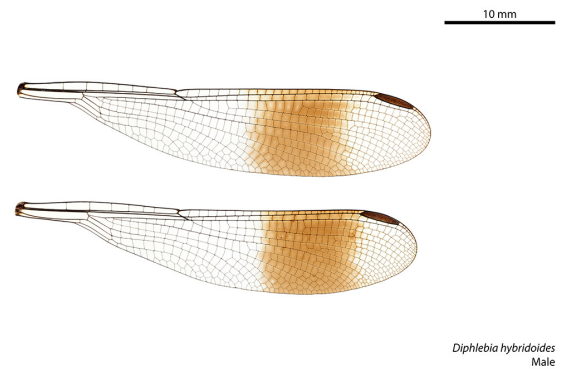


Diphlebia euphoeoides
Male

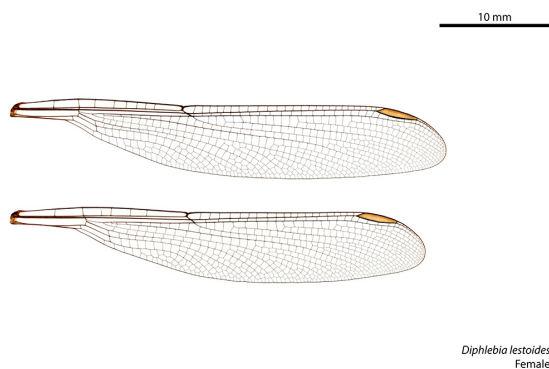
Diphlebia euphoeoides male



Diphlebia hybridoides female



Diphlebia hybridoides male



Diphlebia lestoides female



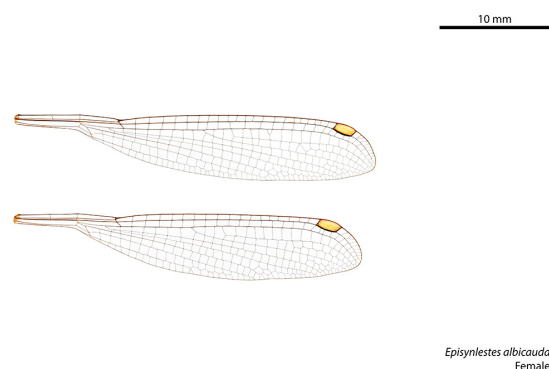
Diphlebia lestoides male



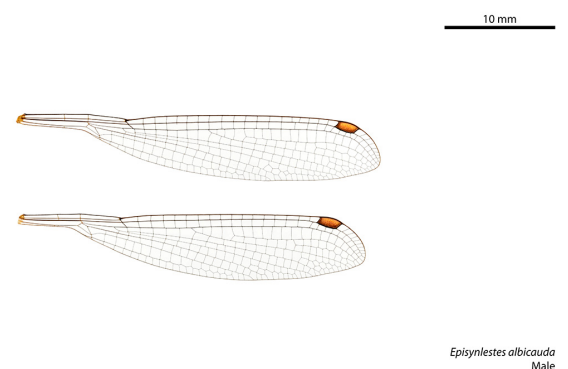
Diphlebia nymphoides female



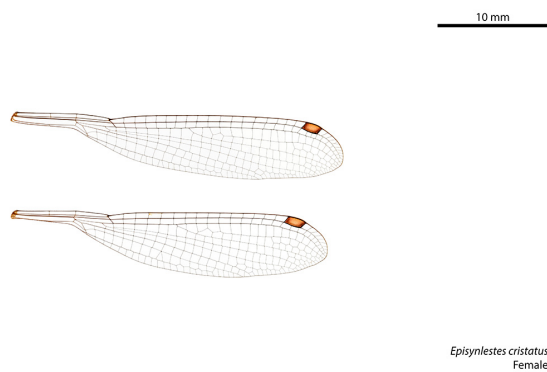
Diphlebia nymphoides male



Episynlestes albicauda female



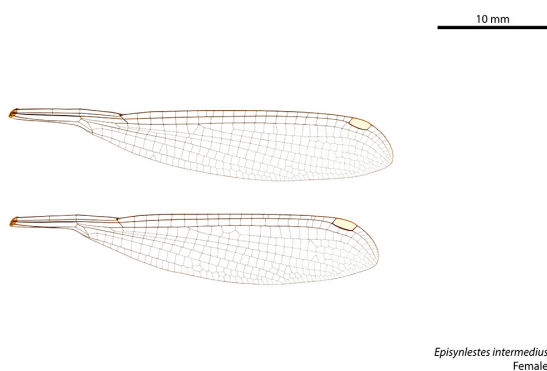
Episynlestes albicauda male



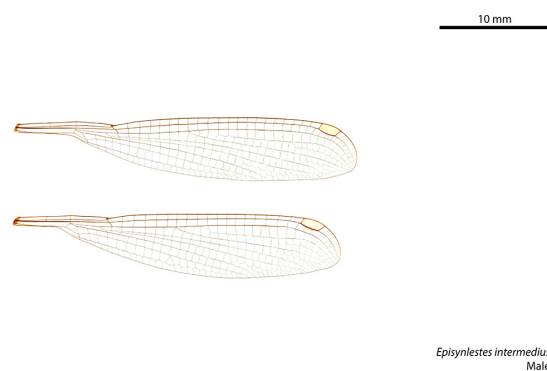
Episyndestes cristatus female



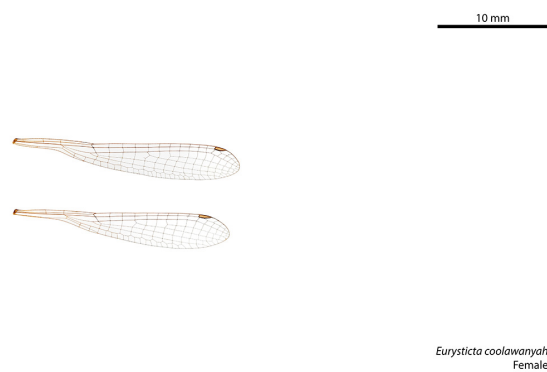
Episyndestes cristatus male



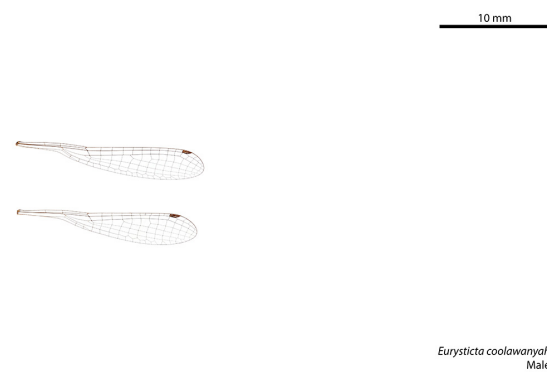
Episyndestes intermedius female



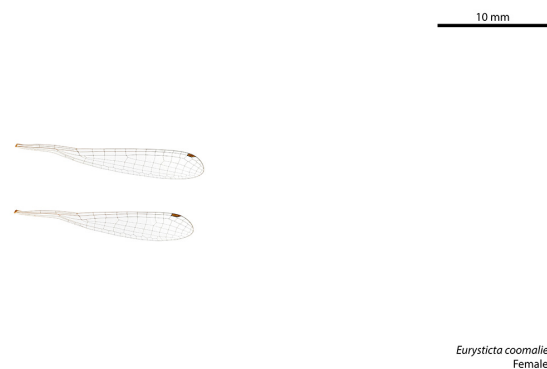
Episyndestes intermedius male



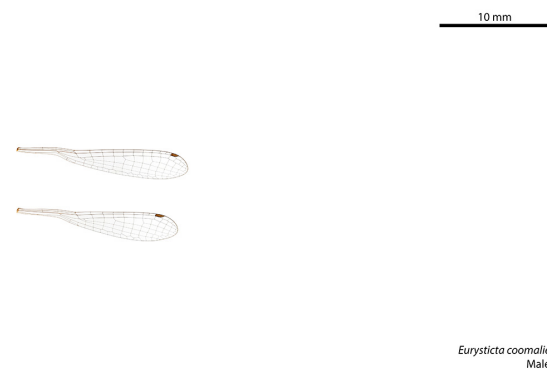
Eurysticta coolawanyah female



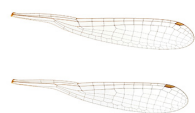
Eurysticta coolawanyah male



Eurysticta coomalie female



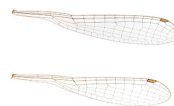
Eurysticta coomalie male



10 mm

Eurysticta kununurra
Female

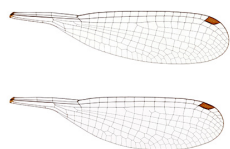
Eurysticta kununurra female



10 mm

Eurysticta kununurra
Male

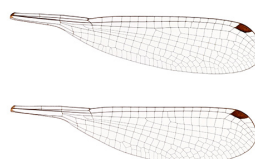
Eurysticta kununurra male



10 mm

Griseargiolestes albescens
Female

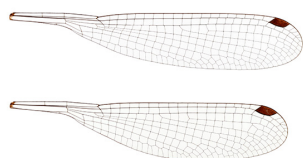
Griseargiolestes albescens female



10 mm

Griseargiolestes albescens
Male

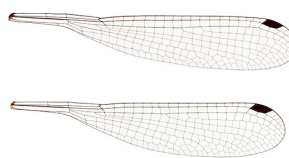
Griseargiolestes albescens male



10 mm

Griseargiolestes bucki
Female

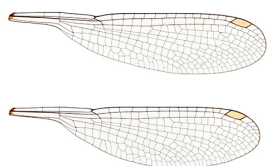
Griseargiolestes bucki female



10 mm

Griseargiolestes bucki
Male

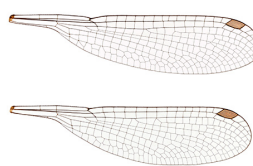
Griseargiolestes bucki male



10 mm

Griseargiolestes eboracus
Female

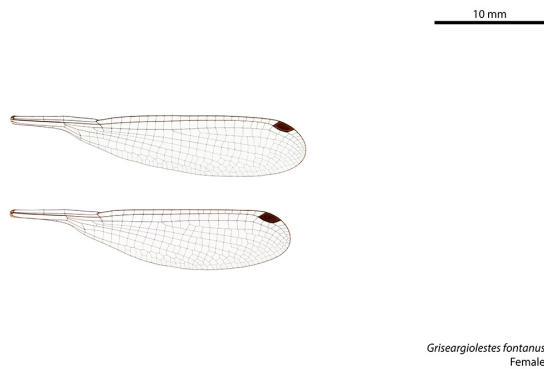
Griseargiolestes eboracus female



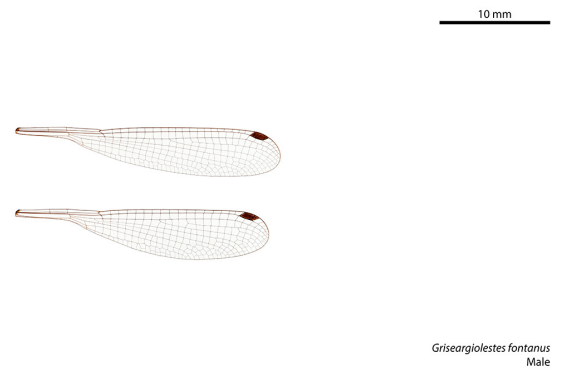
10 mm

Griseargiolestes eboracus
Male

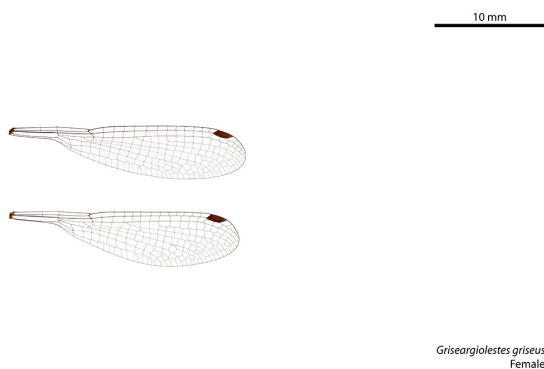
Griseargiolestes eboracus male



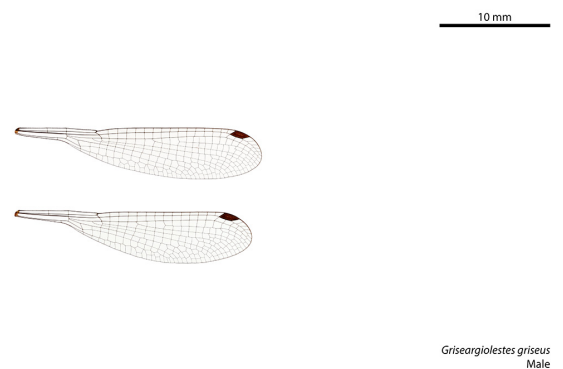
Griseargiolestes fontanus female



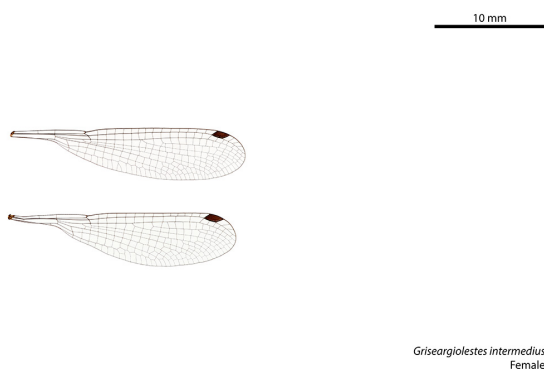
Griseargiolestes fontanus male



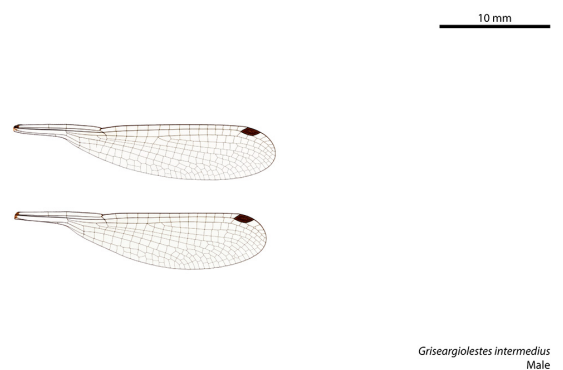
Griseargiolestes griseus female



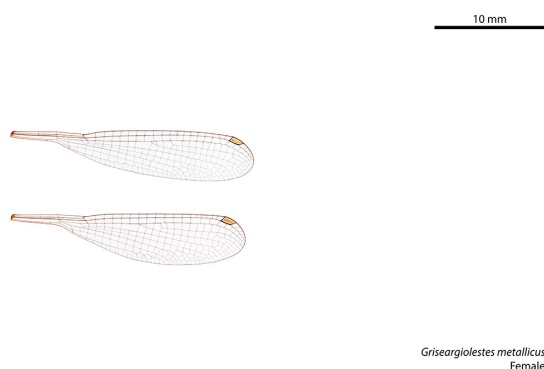
Griseargiolestes griseus male



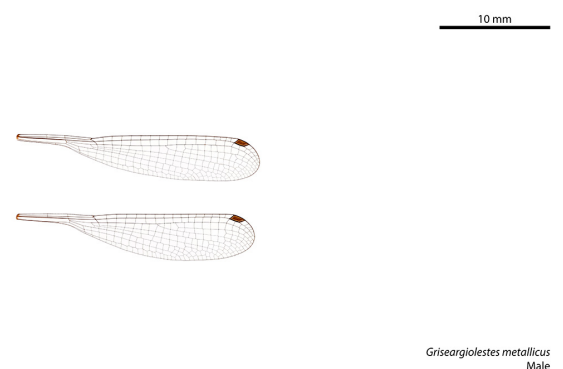
Griseargiolestes intermedius female



Griseargiolestes intermedius male



Griseargiolestes metallicus female



Griseargiolestes metallicus male



10 mm

Hemiphlebia mirabilis
Female

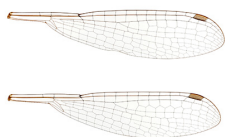
Hemiphlebia mirabilis female



10 mm

Hemiphlebia mirabilis
Male

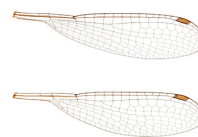
Hemiphlebia mirabilis male



10 mm

Indolestes alleni
Female

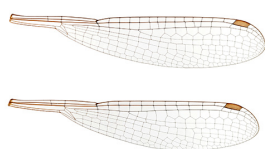
Indolestes alleni female



10 mm

Indolestes alleni
Male

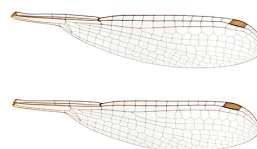
Indolestes alleni male



10 mm

Indolestes obiri
Female

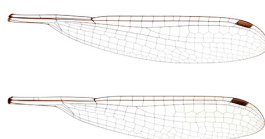
Indolestes obiri female



10 mm

Indolestes obiri
Male

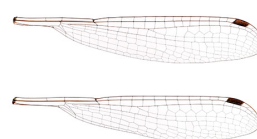
Indolestes obiri male



10 mm

Indolestes tenuissimus
Female

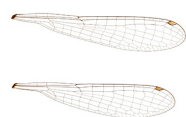
Indolestes tenuissimus female



10 mm

Indolestes tenuissimus
Male

Indolestes tenuissimus male



Ischnura aurora
Female

Ischnura aurora female



Ischnura aurora
Male

Ischnura aurora male



Ischnura heterosticta
Female

Ischnura heterosticta female



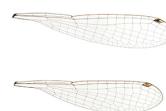
Ischnura heterosticta
Male

Ischnura heterosticta male



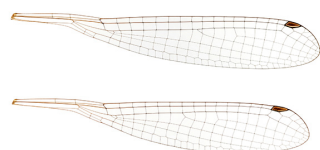
Ischnura pruinescens
Female

Ischnura pruinescens female



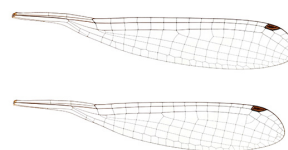
Ischnura pruinescens
Male

Ischnura pruinescens male



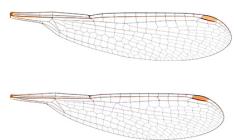
Labidiosticta vallisii
Female

Labidiosticta vallisii female



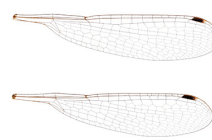
Labidiosticta vallisii
Male

Labidiosticta vallisii male



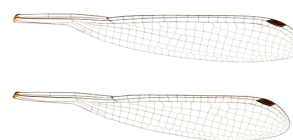
Lestes concinnus
Female

Lestes concinnus female



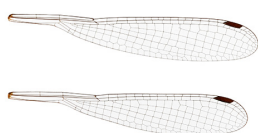
Lestes concinnus
Male

Lestes concinnus male



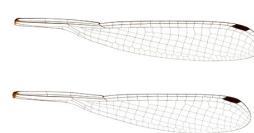
Lestoidea barbarae
Male

Lestoidea barbarae male



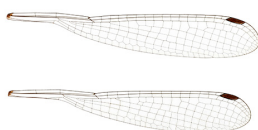
Lestoidea brevicauda
Female

Lestoidea brevicauda female



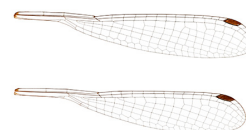
Lestoidea brevicauda
Male

Lestoidea brevicauda male



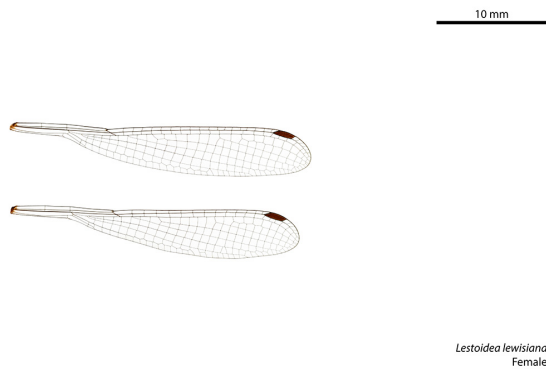
Lestoidea conjuncta
Female

Lestoidea conjuncta female

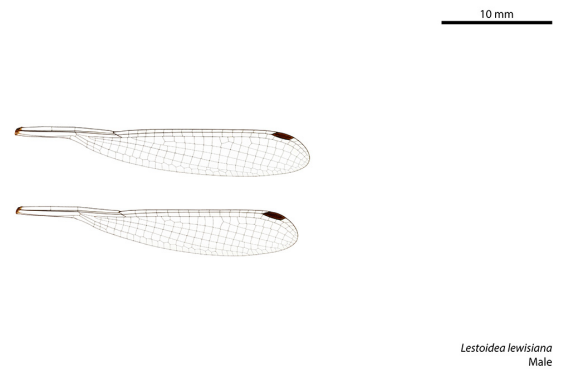


Lestoidea conjuncta
Male

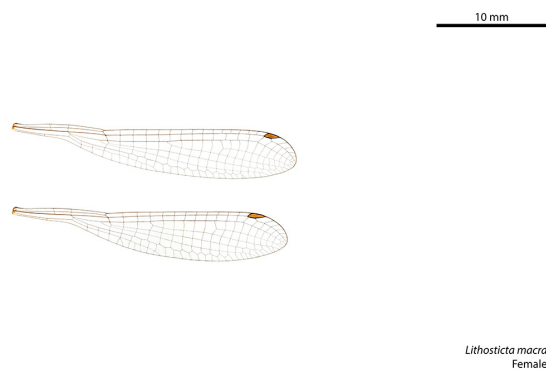
Lestoidea conjuncta male



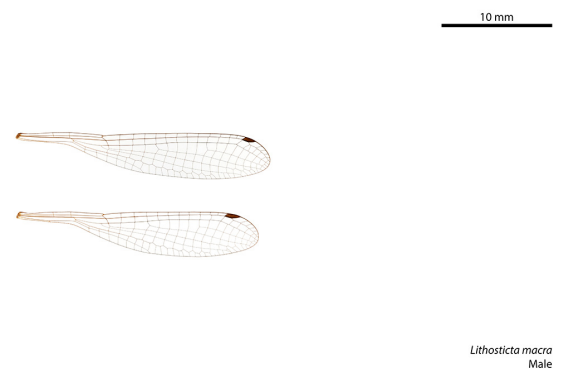
Lestoidea lewisiana female



Lestoidea lewisiana male



Lithosticta macra female



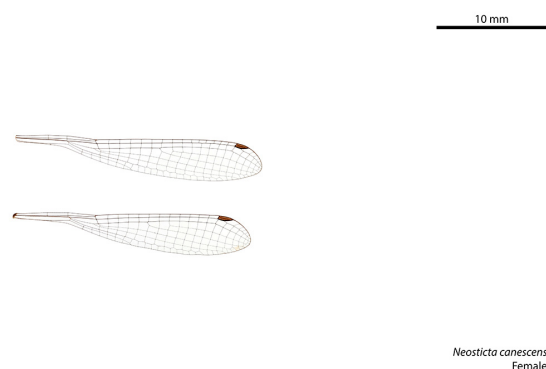
Lithosticta macra male



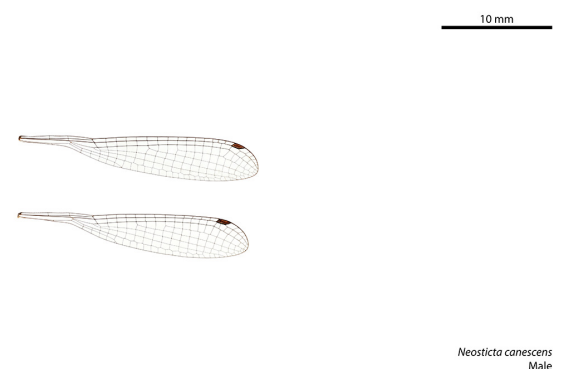
Miniargiolestes minimus female



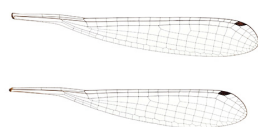
Miniargiolestes minimus male



Neosticta canescens female

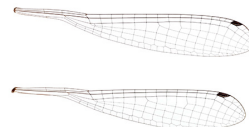


Neosticta canescens male



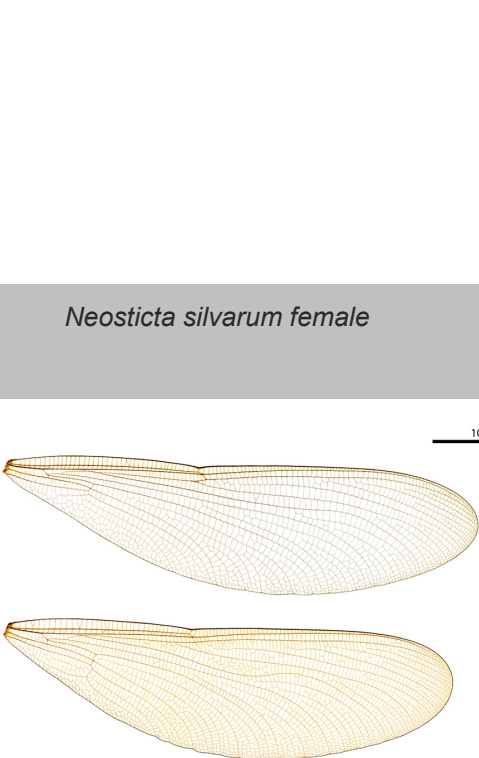
Neosticta fraseri
Female

Neosticta fraseri female

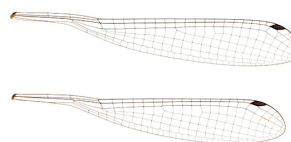


Neosticta fraseri
Male

Neosticta fraseri male



Neosticta silvarum female



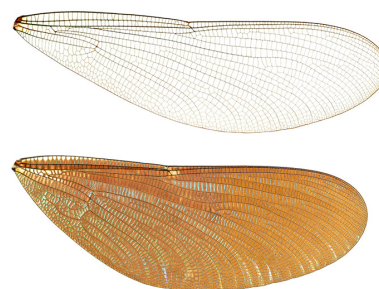
Neosticta silvarum
Male

Neosticta silvarum male



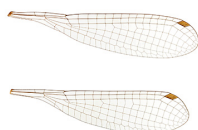
Neurobasis australis
Female

Neurobasis australis female



Neurobasis australis
Male

Neurobasis australis male



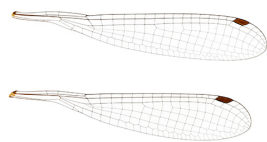
Nososticta baroalba
Female

Nososticta baroalba female



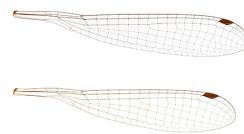
Nososticta baroalba
Male

Nososticta baroalba male



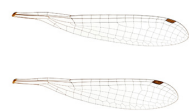
Nososticta coelestina
Female

Nososticta coelestina female



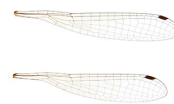
Nososticta coelestina
Male

Nososticta coelestina male



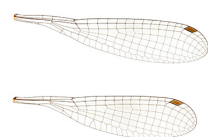
Nososticta fraterna
Female

Nososticta fraterna female



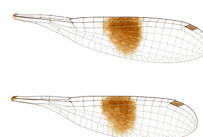
Nososticta fraterna
Male

Nososticta fraterna male



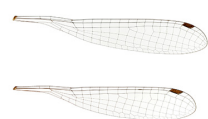
Nososticta kalumburu
Female

Nososticta kalumburu female



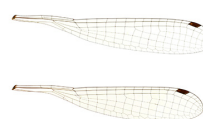
Nososticta kalumburu
Male

Nososticta kalumburu male



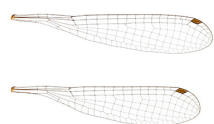
Nososticta koolpinyah
Female

Nososticta koolpinyah female



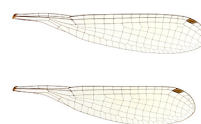
Nososticta koolpinyah
Male

Nososticta koolpinyah male



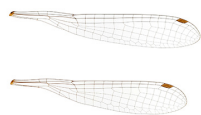
Nososticta koongarra
Female

Nososticta koongarra female



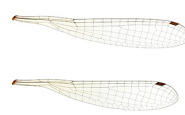
Nososticta koongarra
Male

Nososticta koongarra male



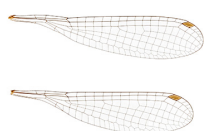
Nososticta liveringa
Female

Nososticta liveringa female



Nososticta liveringa
Male

Nososticta liveringa male



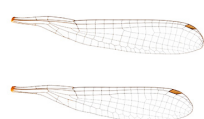
Nososticta mouldsi
Female

Nososticta mouldsi female



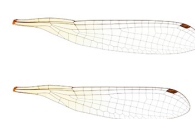
Nososticta mouldsi
Male

Nososticta mouldsi male



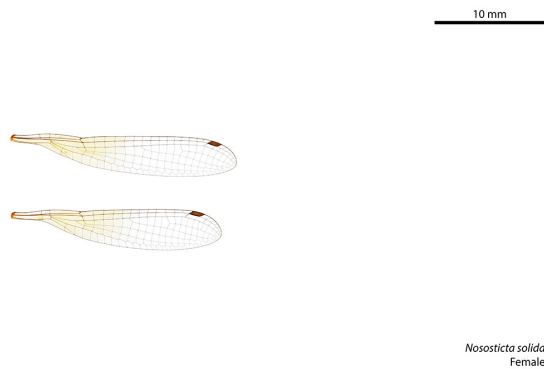
Nososticta pilbara
Female

Nososticta pilbara female

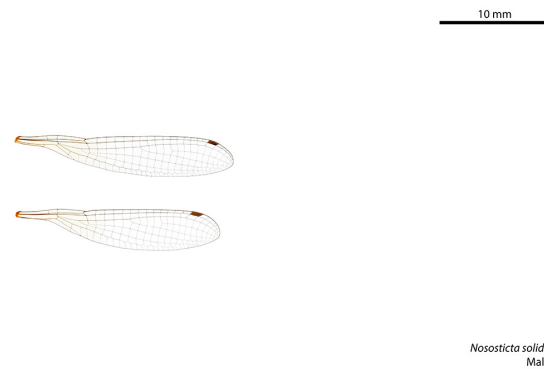


Nososticta pilbara
Male

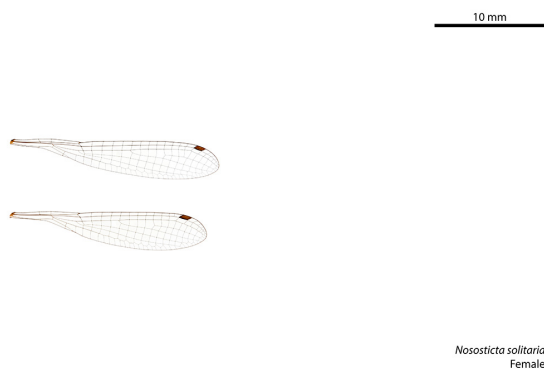
Nososticta pilbara male



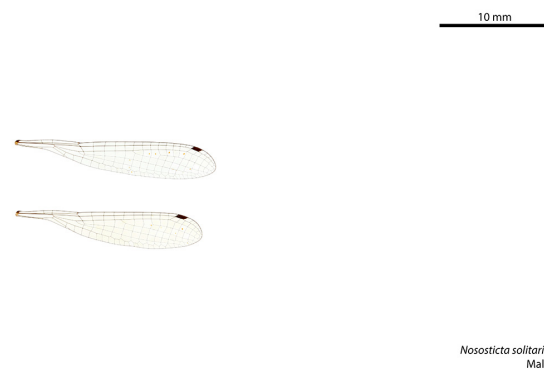
Nososticta solida female



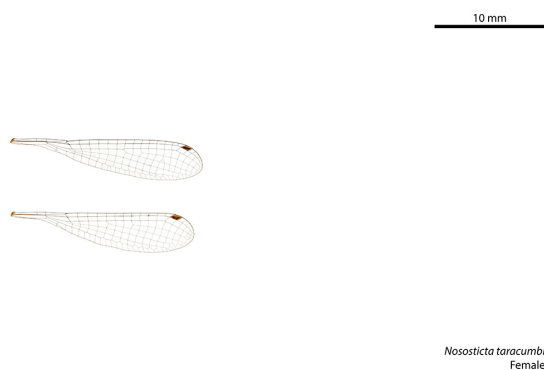
Nososticta solida male



Nososticta solitaria female



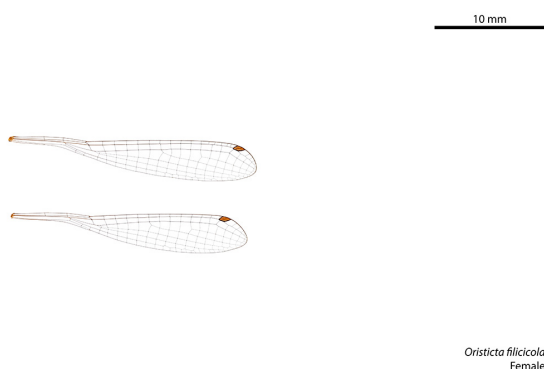
Nososticta solitaria male



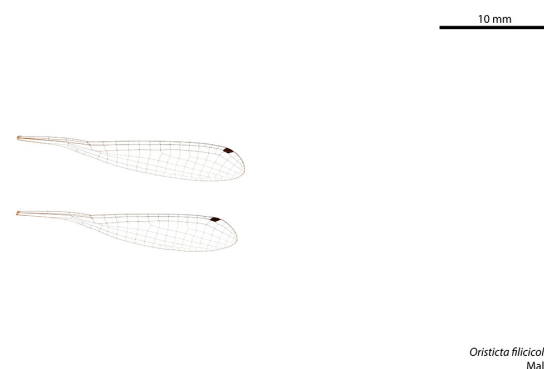
Nososticta taracumbi female



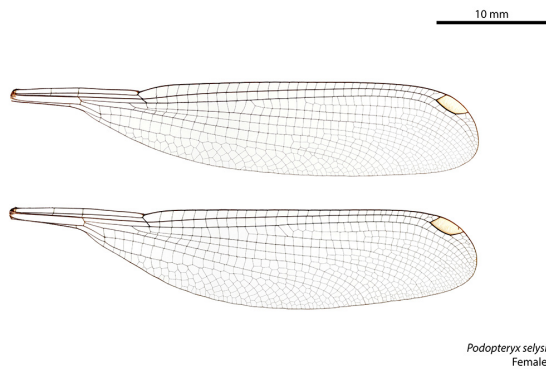
Nososticta taracumbi male



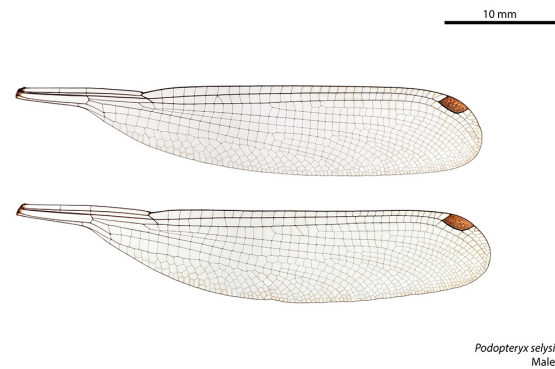
Oristicta filicicola female



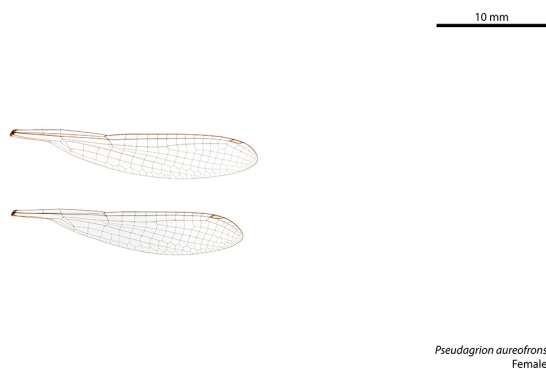
Oristicta filicicola male



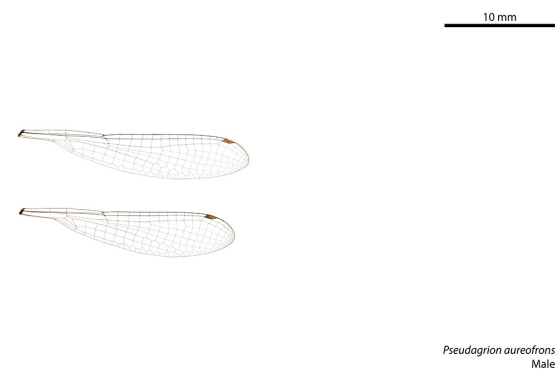
Podopteryx selysi female



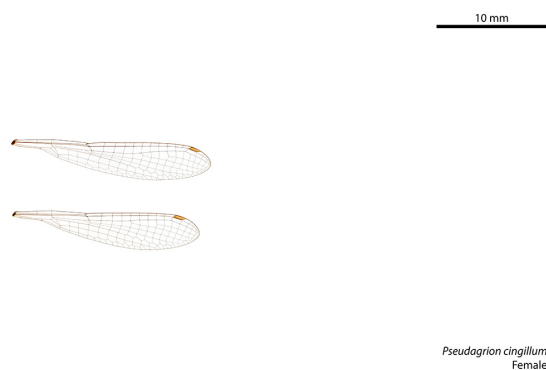
Podopteryx selysi male



Pseudagrion aureofrons female



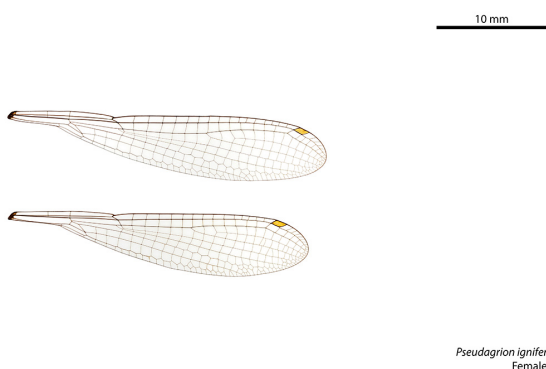
Pseudagrion aureofrons male



Pseudagrion cingillum female



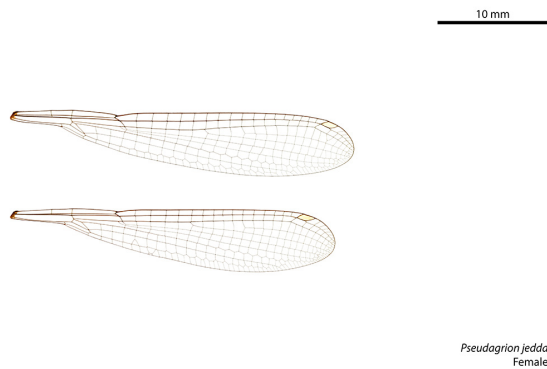
Pseudagrion cingillum male



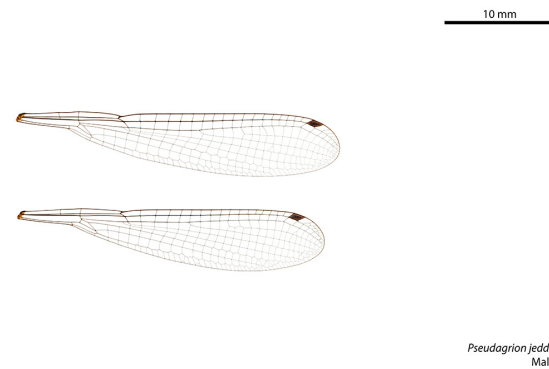
Pseudagrion ignifer female



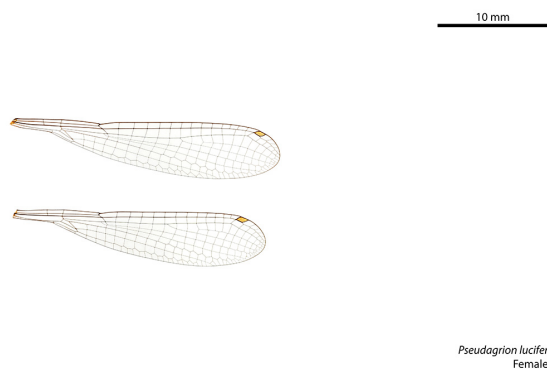
Pseudagrion ignifer male



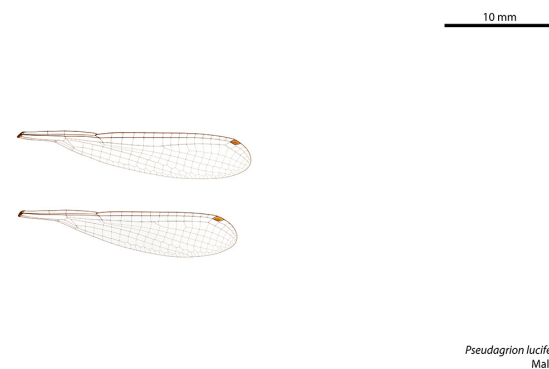
Pseudagrion jedda female



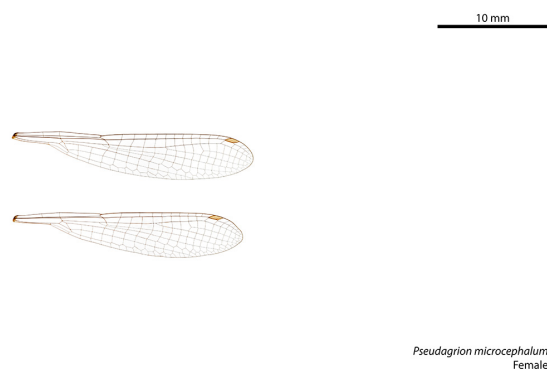
Pseudagrion jedda male



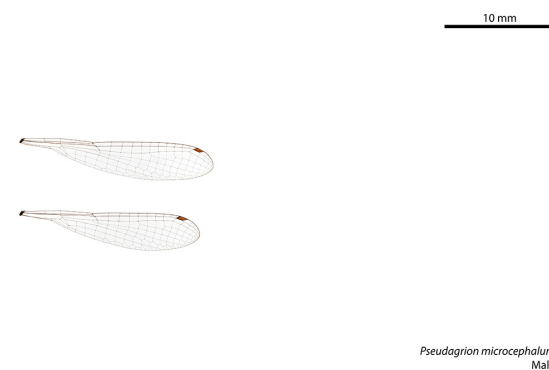
Pseudagrion lucifer female



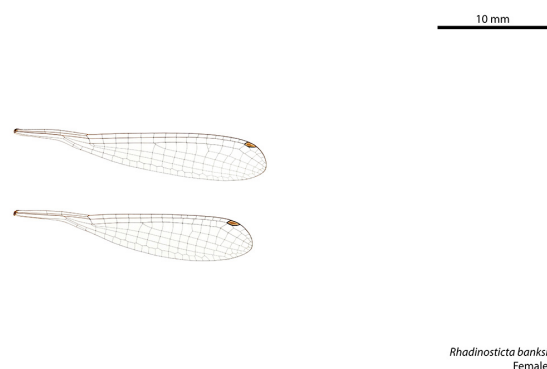
Pseudagrion lucifer male



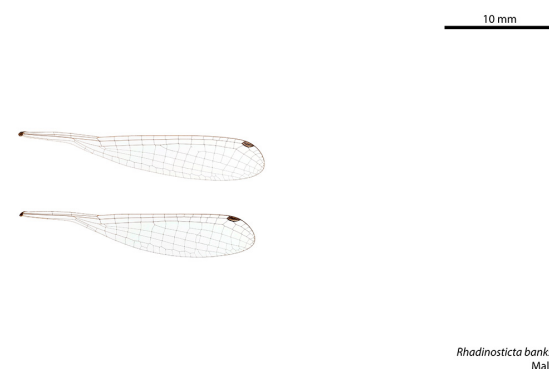
Pseudagrion microcephalum female



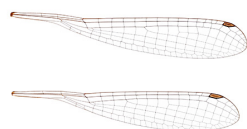
Pseudagrion microcephalum male



Rhadinosticta banksi female

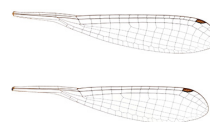


Rhadinosticta banksi male



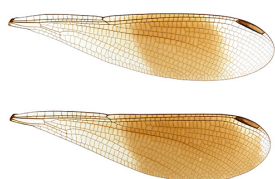
Rhadinosticta simplex
Female

Rhadinosticta simplex female



Rhadinosticta simplex
Male

Rhadinosticta simplex male



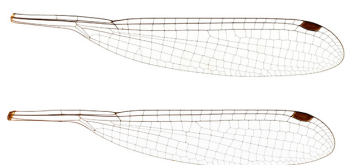
Rhinocypha tincta
Female

Rhinocypha tincta female



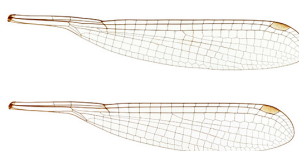
Rhinocypha tincta
Male

Rhinocypha tincta male



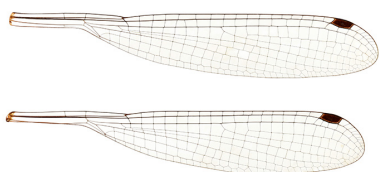
Synlestes selysi
Female

Synlestes selysi female



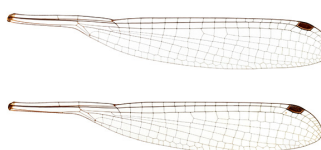
Synlestes selysi
Male

Synlestes selysi male



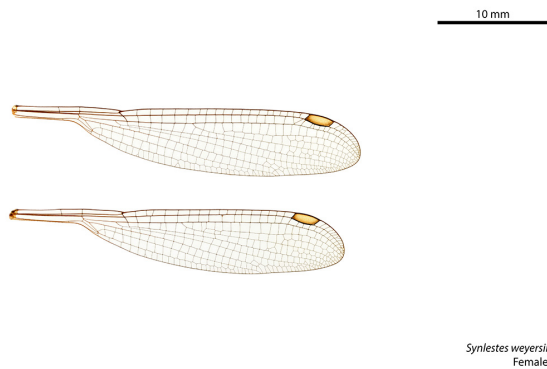
Synlestes tropicus
Female

Synlestes tropicus female

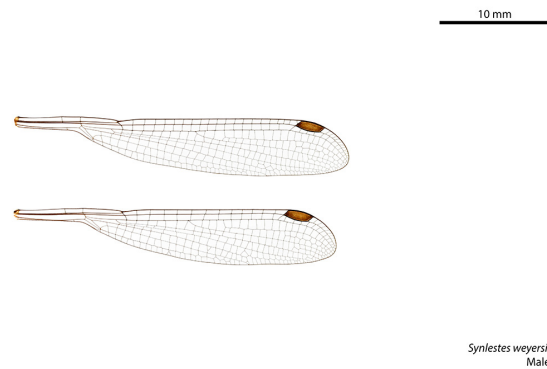


Synlestes tropicus
Male

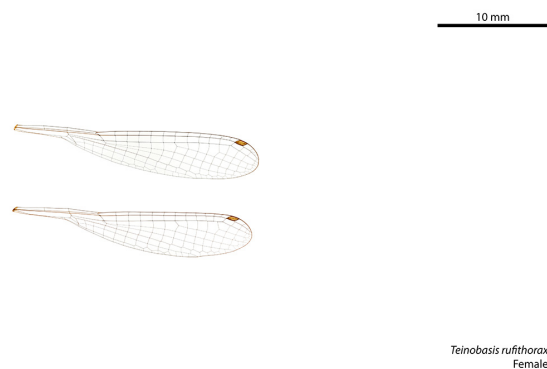
Synlestes tropicus male



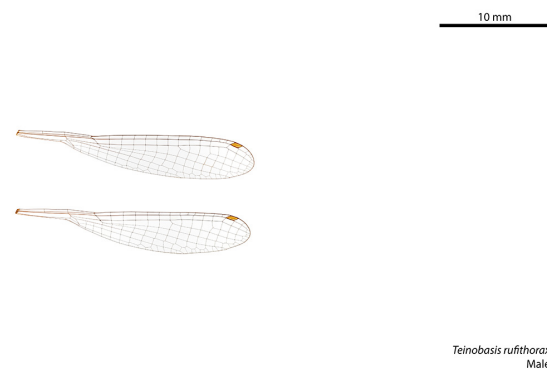
Synlestes weyersii female



Synlestes weyersii male



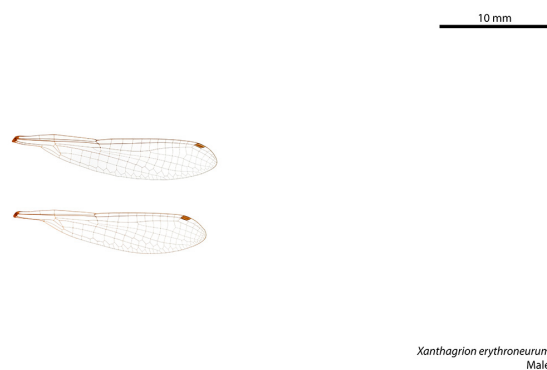
Teinobasis rufithorax female



Teinobasis rufithorax male



Xanthagrion erythroneurum female



Xanthagrion erythroneurum male

Appendix 3—Index to images

Index to full-size images. This table is an abridged version of the full *Index* published at *figshare* (Tann, 2020e). Species are arranged alphabetically. For common names, hyperlinks to the *Atlas of Living Australia* (ALA) specimens records, additional metadata, and specimen images, see Tann (2020e). Abbreviations: *Coll.*, museum or institutional collection; *Coll.Reg.*, registration number; *AM*, Australian Museum, Sydney; *ANIC*, Australian National Insect Collection, Canberra; *MAGNT*, Museum and Art Gallery of the Northern Territory, Darwin; *QM*, Queensland Museum, Brisbane; and *WAM*, Western Australian Museum, Perth.

family	species	sex	Coll.	Coll.Reg.	figshare DOI for wing images
Telephlebiidae	<i>Acanthaeschna victoria</i>	F	ANIC	7-009684	https://doi.org/10.6084/m9.figshare.12605939
Telephlebiidae	<i>Acanthaeschna victoria</i>	M	AM	K300814	https://doi.org/10.6084/m9.figshare.12605939
Coenagrionidae	<i>Aciagrion fragilis</i>	F	AM	K301206	https://doi.org/10.6084/m9.figshare.12597695
Coenagrionidae	<i>Aciagrion fragilis</i>	M	AM	K301207	https://doi.org/10.6084/m9.figshare.12597695
Aeshnidae	<i>Adversaeschna brevistyla</i>	F	AM	K305467	https://doi.org/10.6084/m9.figshare.12605936
Aeshnidae	<i>Adversaeschna brevistyla</i>	M	AM	K305480	https://doi.org/10.6084/m9.figshare.12605936
Libellulidae	<i>Aethriamanta circumsignata</i>	F	ANIC	7-011025	https://doi.org/10.6084/m9.figshare.12605933
Libellulidae	<i>Aethriamanta circumsignata</i>	M	AM	K305539	https://doi.org/10.6084/m9.figshare.12605933
Libellulidae	<i>Aethriamanta nymphaeae</i>	F	ANIC	7-011030	https://doi.org/10.6084/m9.figshare.12605930
Libellulidae	<i>Aethriamanta nymphaeae</i>	M	ANIC	7-011033	https://doi.org/10.6084/m9.figshare.12605930
Coenagrionidae	<i>Agriocnemis argentea</i>	F	AM	K305648	https://doi.org/10.6084/m9.figshare.12597692
Coenagrionidae	<i>Agriocnemis argentea</i>	M	AM	K3051205	https://doi.org/10.6084/m9.figshare.12597692
Coenagrionidae	<i>Agriocnemis dobsoni</i>	F	ANIC	7-001968	https://doi.org/10.6084/m9.figshare.12597683
Coenagrionidae	<i>Agriocnemis dobsoni</i>	M	ANIC	7-001969	https://doi.org/10.6084/m9.figshare.12597683
Coenagrionidae	<i>Agriocnemis femina</i>	F	ANIC	7-001971	https://doi.org/10.6084/m9.figshare.12597677
Coenagrionidae	<i>Agriocnemis femina</i>	M	ANIC	7-001971	https://doi.org/10.6084/m9.figshare.12597677
Coenagrionidae	<i>Agriocnemis kunjina</i>	F	AM	K280879	https://doi.org/10.6084/m9.figshare.12597671
Coenagrionidae	<i>Agriocnemis kunjina</i>	M	AM	K305666	https://doi.org/10.6084/m9.figshare.12597671
Coenagrionidae	<i>Agriocnemis pygmaea</i>	F	AM	K301197	https://doi.org/10.6084/m9.figshare.12597668
Coenagrionidae	<i>Agriocnemis pygmaea</i>	M	AM	K337755	https://doi.org/10.6084/m9.figshare.12597668
Coenagrionidae	<i>Agriocnemis rubricauda</i>	F	AM	K305665	https://doi.org/10.6084/m9.figshare.12597662
Coenagrionidae	<i>Agriocnemis rubricauda</i>	M	AM	K301187	https://doi.org/10.6084/m9.figshare.12597662
Libellulidae	<i>Agrionoptera insignis</i>	F	AM	K305525	https://doi.org/10.6084/m9.figshare.12605921
Libellulidae	<i>Agrionoptera insignis</i>	M	AM	K337650	https://doi.org/10.6084/m9.figshare.12605921
Libellulidae	<i>Agrionoptera longitudinalis</i>	F	AM	K403332	https://doi.org/10.6084/m9.figshare.12605915
Libellulidae	<i>Agrionoptera longitudinalis</i>	M	AM	K299513	https://doi.org/10.6084/m9.figshare.12605915
Aeshnidae	<i>Agrytaecantha dirupta</i>	F	QM	T172175	https://doi.org/10.6084/m9.figshare.12605912
Aeshnidae	<i>Anaciaeschna jaspidea</i>	F	AM	K281261	https://doi.org/10.6084/m9.figshare.12605906
Aeshnidae	<i>Anaciaeschna jaspidea</i>	M	AM	K305456	https://doi.org/10.6084/m9.figshare.12605906
Aeshnidae	<i>Anax georgius</i>	M	ANIC	7-010006	https://doi.org/10.6084/m9.figshare.12605897
Aeshnidae	<i>Anax gibbosulus</i>	F	AM	K305449	https://doi.org/10.6084/m9.figshare.12605894
Aeshnidae	<i>Anax gibbosulus</i>	M	AM	K305708	https://doi.org/10.6084/m9.figshare.12605894
Aeshnidae	<i>Anax guttatus</i>	F	AM	K289989	https://doi.org/10.6084/m9.figshare.12605888
Aeshnidae	<i>Anax guttatus</i>	M	AM	K305455	https://doi.org/10.6084/m9.figshare.12605888
Aeshnidae	<i>Anax papuensis</i>	F	AM	K337585	https://doi.org/10.6084/m9.figshare.12605882
Aeshnidae	<i>Anax papuensis</i>	M	AM	K305671	https://doi.org/10.6084/m9.figshare.12605882
Gomphidae	<i>Antipodogomphus acolythus</i>	F	AM	K305687	https://doi.org/10.6084/m9.figshare.12605873
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Gomphidae	<i>Antipodogomphus dentosus</i>	F	ANIC	7-005863	https://doi.org/10.6084/m9.figshare.12605864
Gomphidae	<i>Antipodogomphus dentosus</i>	M	ANIC	7-005862	https://doi.org/10.6084/m9.figshare.12605864
Gomphidae	<i>Antipodogomphus edentulus</i>	F	ANIC	7-005864	https://doi.org/10.6084/m9.figshare.12605858
Gomphidae	<i>Antipodogomphus hodgkini</i>	F	ANIC	7-005851	https://doi.org/10.6084/m9.figshare.12605852
Gomphidae	<i>Antipodogomphus hodgkini</i>	M	ANIC	7-005850	https://doi.org/10.6084/m9.figshare.12605852
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Gomphidae	<i>Antipodogomphus proselythus</i>	F	AM	K403324	https://doi.org/10.6084/m9.figshare.12605810
Gomphidae	<i>Antipodogomphus proselythus</i>	M	AM	K403325	https://doi.org/10.6084/m9.figshare.12605810
Telephlebiidae	<i>Antipodophlebia asthenes</i>	F	AM	K300809	https://doi.org/10.6084/m9.figshare.12605807
Telephlebiidae	<i>Antipodophlebia asthenes</i>	M	AM	K300810	https://doi.org/10.6084/m9.figshare.12605807
Austrocorduliidae	<i>Apocordulia macrops</i>	F	ANIC	unregistered	https://doi.org/10.6084/m9.figshare.12605801
Austrocorduliidae	<i>Apocordulia macrops</i>	M	ANIC	7-010455	https://doi.org/10.6084/m9.figshare.12605801
Gomphomacromiidae	<i>Archaeophya adamsi</i>	F	ANIC	7-010270	https://doi.org/10.6084/m9.figshare.12605798
Gomphomacromiidae	<i>Archaeophya adamsi</i>	M	AM	K259786	https://doi.org/10.6084/m9.figshare.12605798
Gomphomacromiidae	<i>Archaeophya magnifica</i>	F	ANIC	7-010273	https://doi.org/10.6084/m9.figshare.12605792
Gomphomacromiidae	<i>Archaeophya magnifica</i>	M	AM	K281178	https://doi.org/10.6084/m9.figshare.12605792
Synthemistidae	<i>Archaeosynthemis leachii</i>	F	AM	K299902	https://doi.org/10.6084/m9.figshare.12605789
Synthemistidae	<i>Archaeosynthemis leachii</i>	M	AM	K337673	https://doi.org/10.6084/m9.figshare.12605789
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Synthemistidae	<i>Archaeosynthemis occidentalis</i>	M	AM	K337680	https://doi.org/10.6084/m9.figshare.12605783
Synthemistidae	<i>Archaeosynthemis orientalis</i>	F	AM	K299886	https://doi.org/10.6084/m9.figshare.12605777
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Synthemistidae	<i>Archaeosynthemis spiniger</i>	F	ANIC	7-011011	https://doi.org/10.6084/m9.figshare.12605756
Synthemistidae	<i>Archaeosynthemis spiniger</i>	M	WAM	WAM44318	https://doi.org/10.6084/m9.figshare.12605756
Megapodagrionidae	<i>Archiargiolestes parvulus</i>	F	ANIC	7-004674	https://doi.org/10.6084/m9.figshare.12597659
Megapodagrionidae	<i>Archiargiolestes parvulus</i>	M	ANIC	7-004658	https://doi.org/10.6084/m9.figshare.12597659
Megapodagrionidae	<i>Archiargiolestes pusillissimus</i>	F	ANIC	7-004609	https://doi.org/10.6084/m9.figshare.12597656
Megapodagrionidae	<i>Archiargiolestes pusillissimus</i>	M	ANIC	7-004614	https://doi.org/10.6084/m9.figshare.12597656
Megapodagrionidae	<i>Archiargiolestes pusillus</i>	F	ANIC	7-004465	https://doi.org/10.6084/m9.figshare.12597653
Megapodagrionidae	<i>Archiargiolestes pusillus</i>	M	AM	K301434	https://doi.org/10.6084/m9.figshare.12597653

family	species	sex	Coll.	Coll.Reg.	figshare DOI for wing images
Coenagrionidae	<i>Archibasis mimetes</i>	F	ANIC	7-000014	https://doi.org/10.6084/m9.figshare.12597650
Coenagrionidae	<i>Archibasis mimetes</i>	M	AM	K301186	https://doi.org/10.6084/m9.figshare.12597650
Austropetaliidae	<i>Archipetalia auriculata</i>	F	AM	K305485	https://doi.org/10.6084/m9.figshare.12605750
Austropetaliidae	<i>Archipetalia auriculata</i>	M	AM	K305667	https://doi.org/10.6084/m9.figshare.12605750
Coenagrionidae	<i>Argiocnemis rubescens</i>	F	AM	K301177	https://doi.org/10.6084/m9.figshare.12597647
Coenagrionidae	<i>Argiocnemis rubescens</i>	M	AM	K301173	https://doi.org/10.6084/m9.figshare.12597647
Gomphidae	<i>Armogomphus armiger</i>	F	ANIC	7-006033	https://doi.org/10.6084/m9.figshare.12605747
Gomphidae	<i>Armogomphus armiger</i>	M	ANIC	7-006032	https://doi.org/10.6084/m9.figshare.12605747
Telephlebiidae	<i>Austroaeschna anacantha</i>	F	AM	K300806	https://doi.org/10.6084/m9.figshare.12605741
Telephlebiidae	<i>Austroaeschna anacantha</i>	M	AM	K337714	https://doi.org/10.6084/m9.figshare.12605741
Telephlebiidae	<i>Austroaeschna atrata</i>	F	AM	K289915	https://doi.org/10.6084/m9.figshare.12605732
Telephlebiidae	<i>Austroaeschna atrata</i>	M	AM	K300795	https://doi.org/10.6084/m9.figshare.12605732
Telephlebiidae	<i>Austroaeschna christine</i>	M	ANIC	7-007569	https://doi.org/10.6084/m9.figshare.12605666
Telephlebiidae	<i>Austroaeschna cooloola</i>	F	AM	K403340	https://doi.org/10.6084/m9.figshare.12605657
Telephlebiidae	<i>Austroaeschna cooloola</i>	M	AM	K300794	https://doi.org/10.6084/m9.figshare.12605657
Telephlebiidae	<i>Austroaeschna eungella</i>	F	ANIC	7-009489	https://doi.org/10.6084/m9.figshare.12605648
Telephlebiidae	<i>Austroaeschna eungella</i>	M	QM	T175882	https://doi.org/10.6084/m9.figshare.12605648
Telephlebiidae	<i>Austroaeschna flavomaculata</i>	F	AM	K300791	https://doi.org/10.6084/m9.figshare.12605633
Telephlebiidae	<i>Austroaeschna flavomaculata</i>	M	AM	K300782	https://doi.org/10.6084/m9.figshare.12605633
Telephlebiidae	<i>Austroaeschna hardyi</i>	F	AM	K300750	https://doi.org/10.6084/m9.figshare.12605609
Telephlebiidae	<i>Austroaeschna hardyi</i>	M	AM	K300752	https://doi.org/10.6084/m9.figshare.12605609
Telephlebiidae	<i>Austroaeschna inermis</i>	F	AM	K300256	https://doi.org/10.6084/m9.figshare.12605600
Telephlebiidae	<i>Austroaeschna inermis</i>	M	AM	K300253	https://doi.org/10.6084/m9.figshare.12605600
Telephlebiidae	<i>Austroaeschna ingrid</i>	F	AM	K300737	https://doi.org/10.6084/m9.figshare.12605588
Telephlebiidae	<i>Austroaeschna ingrid</i>	M	AM	K300740	https://doi.org/10.6084/m9.figshare.12605588
Telephlebiidae	<i>Austroaeschna muelleri</i>	F	AM	K300907	https://doi.org/10.6084/m9.figshare.12605516
Telephlebiidae	<i>Austroaeschna muelleri</i>	M	AM	K300906	https://doi.org/10.6084/m9.figshare.12605516
Telephlebiidae	<i>Austroaeschna multipunctata</i>	F	AM	K300886	https://doi.org/10.6084/m9.figshare.12605507
Telephlebiidae	<i>Austroaeschna multipunctata</i>	M	AM	K300861	https://doi.org/10.6084/m9.figshare.12605507
Telephlebiidae	<i>Austroaeschna obscura</i>	F	AM	K300829	https://doi.org/10.6084/m9.figshare.12601517
Telephlebiidae	<i>Austroaeschna obscura</i>	M	AM	K300826	https://doi.org/10.6084/m9.figshare.12601517
Telephlebiidae	<i>Austroaeschna parvistigma</i>	F	AM	K300817	https://doi.org/10.6084/m9.figshare.12601508
Telephlebiidae	<i>Austroaeschna parvistigma</i>	M	AM	K300823	https://doi.org/10.6084/m9.figshare.12601508
Telephlebiidae	<i>Austroaeschna pinheyi</i>	F	AM	K305676	https://doi.org/10.6084/m9.figshare.12601505
Telephlebiidae	<i>Austroaeschna pinheyi</i>	M	AM	K305675	https://doi.org/10.6084/m9.figshare.12601505
Telephlebiidae	<i>Austroaeschna pulchra</i>	F	AM	K301002	https://doi.org/10.6084/m9.figshare.12601499
Telephlebiidae	<i>Austroaeschna pulchra</i>	M	AM	K337715	https://doi.org/10.6084/m9.figshare.12601499
Telephlebiidae	<i>Austroaeschna sigma</i>	F	AM	K300979	https://doi.org/10.6084/m9.figshare.12601496
Telephlebiidae	<i>Austroaeschna sigma</i>	M	AM	K300966	https://doi.org/10.6084/m9.figshare.12601496
Telephlebiidae	<i>Austroaeschna speciosa</i>	F	AM	K289859	https://doi.org/10.6084/m9.figshare.12601493
Telephlebiidae	<i>Austroaeschna speciosa</i>	M	ANIC	7-006781	https://doi.org/10.6084/m9.figshare.12601493
Telephlebiidae	<i>Austroaeschna subapicalis</i>	F	AM	K300934	https://doi.org/10.6084/m9.figshare.12601478
Telephlebiidae	<i>Austroaeschna subapicalis</i>	M	AM	K300960	https://doi.org/10.6084/m9.figshare.12601478
Telephlebiidae	<i>Austroaeschna tasmanica</i>	F	QM	T172855	https://doi.org/10.6084/m9.figshare.12601475
Telephlebiidae	<i>Austroaeschna tasmanica</i>	M	AM	K299384	https://doi.org/10.6084/m9.figshare.12601475
Telephlebiidae	<i>Austroaeschna unicornis</i>	F	AM	K299376	https://doi.org/10.6084/m9.figshare.12601472
Telephlebiidae	<i>Austroaeschna unicornis</i>	M	AM	K299370	https://doi.org/10.6084/m9.figshare.12601472
Coenagrionidae	<i>Austroagrion cyane</i>	F	ANIC	7-001537	https://doi.org/10.6084/m9.figshare.12597644
Coenagrionidae	<i>Austroagrion cyane</i>	M	ANIC	7-001526	https://doi.org/10.6084/m9.figshare.12597644
Coenagrionidae	<i>Austroagrion exclamationis</i>	F	AM	K301162	https://doi.org/10.6084/m9.figshare.12597641
Coenagrionidae	<i>Austroagrion exclamationis</i>	M	AM	K301160	https://doi.org/10.6084/m9.figshare.12597641
Coenagrionidae	<i>Austroagrion pindrina</i>	F	ANIC	7-001109	https://doi.org/10.6084/m9.figshare.12597638
Coenagrionidae	<i>Austroagrion pindrina</i>	M	AM	K301157	https://doi.org/10.6084/m9.figshare.12597638
Coenagrionidae	<i>Austroagrion watsoni</i>	F	AM	K301149	https://doi.org/10.6084/m9.figshare.12597635
Coenagrionidae	<i>Austroagrion watsoni</i>	M	AM	K337764	https://doi.org/10.6084/m9.figshare.12597635
Megapodagrionidae	<i>Austroargiolestes alpinus</i>	F	ANIC	7-009196	https://doi.org/10.6084/m9.figshare.12597632
Megapodagrionidae	<i>Austroargiolestes alpinus</i>	M	ANIC	7-009190	https://doi.org/10.6084/m9.figshare.12597632
Megapodagrionidae	<i>Austroargiolestes amabilis</i>	F	AM	K302004	https://doi.org/10.6084/m9.figshare.12597626
Megapodagrionidae	<i>Austroargiolestes amabilis</i>	M	AM	K302014	https://doi.org/10.6084/m9.figshare.12597626
Megapodagrionidae	<i>Austroargiolestes aureus</i>	F	AM	K302001	https://doi.org/10.6084/m9.figshare.12597623
Megapodagrionidae	<i>Austroargiolestes aureus</i>	M	AM	K301989	https://doi.org/10.6084/m9.figshare.12597623
Megapodagrionidae	<i>Austroargiolestes brookhousei</i>	F	AM	K301983	https://doi.org/10.6084/m9.figshare.12597620
Megapodagrionidae	<i>Austroargiolestes brookhousei</i>	M	AM	K301985	https://doi.org/10.6084/m9.figshare.12597620
Megapodagrionidae	<i>Austroargiolestes calcaris</i>	F	AM	K301976	https://doi.org/10.6084/m9.figshare.12597614
Megapodagrionidae	<i>Austroargiolestes calcaris</i>	M	AM	K301971	https://doi.org/10.6084/m9.figshare.12597614
Megapodagrionidae	<i>Austroargiolestes christine</i>	F	AM	K301955	https://doi.org/10.6084/m9.figshare.12597605
Megapodagrionidae	<i>Austroargiolestes christine</i>	M	AM	K301950	https://doi.org/10.6084/m9.figshare.12597605
Megapodagrionidae	<i>Austroargiolestes chrysoides</i>	F	ANIC	7-004958	https://doi.org/10.6084/m9.figshare.12597602
Megapodagrionidae	<i>Austroargiolestes chrysoides</i>	M	ANIC	7-009114	https://doi.org/10.6084/m9.figshare.12597602
Megapodagrionidae	<i>Austroargiolestes elke</i>	F	ANIC	7-005017	https://doi.org/10.6084/m9.figshare.12597593
Megapodagrionidae	<i>Austroargiolestes elke</i>	M	QM	T192479	https://doi.org/10.6084/m9.figshare.12597593
Megapodagrionidae	<i>Austroargiolestes icteromelas</i>	F	AM	K301926	https://doi.org/10.6084/m9.figshare.12597587
Megapodagrionidae	<i>Austroargiolestes icteromelas</i>	M	AM	K337843	https://doi.org/10.6084/m9.figshare.12597587
Megapodagrionidae	<i>Austroargiolestes isabellae</i>	F	AM	K301847	https://doi.org/10.6084/m9.figshare.12597578
Megapodagrionidae	<i>Austroargiolestes isabellae</i>	M	AM	K337851	https://doi.org/10.6084/m9.figshare.12597578
Coenagrionidae	<i>Austrocnemis maccullochi</i>	F	AM	K301143	https://doi.org/10.6084/m9.figshare.12597569
Coenagrionidae	<i>Austrocnemis maccullochi</i>	M	AM	K301134	https://doi.org/10.6084/m9.figshare.12597569
Coenagrionidae	<i>Austrocnemis obscura</i>	F	ANIC	unregistered	https://doi.org/10.6084/m9.figshare.12597563
Coenagrionidae	<i>Austrocnemis splendida</i>	F	AM	K301127	https://doi.org/10.6084/m9.figshare.12597551
Coenagrionidae	<i>Austrocnemis splendida</i>	M	AM	K301116	https://doi.org/10.6084/m9.figshare.12597551

family	species	sex	Coll.	Coll.Reg.	figshare DOI for wing images
Austrocorduliidae	<i>Austrocordulia leonardi</i>	F	AM	K259788	https://doi.org/10.6084/m9.figshare.12601433
Austrocorduliidae	<i>Austrocordulia leonardi</i>	M	AM	K300186	https://doi.org/10.6084/m9.figshare.12601433
Austrocorduliidae	<i>Austrocordulia refracta</i>	F	AM	K300178	https://doi.org/10.6084/m9.figshare.12601427
Austrocorduliidae	<i>Austrocordulia refracta</i>	M	AM	K300177	https://doi.org/10.6084/m9.figshare.12601427
Austrocorduliidae	<i>Austrocordulia territoria</i>	F	ANIC	7-010447	https://doi.org/10.6084/m9.figshare.12601421
Austrocorduliidae	<i>Austrocordulia territoria</i>	M	ANIC	7-010454	https://doi.org/10.6084/m9.figshare.12601421
Gomphidae	<i>Austrogomphus amphiclitus</i>	F	AM	K302105	https://doi.org/10.6084/m9.figshare.12601418
Gomphidae	<i>Austrogomphus amphiclitus</i>	M	AM	K302086	https://doi.org/10.6084/m9.figshare.12601418
Gomphidae	<i>Austrogomphus angelorum</i>	F	AM	K456021	https://doi.org/10.6084/m9.figshare.12601403
Gomphidae	<i>Austrogomphus angelorum</i>	M	ANIC	7-005239	https://doi.org/10.6084/m9.figshare.12601403
Gomphidae	<i>Austrogomphus arbustorum</i>	F	AM	K302328	https://doi.org/10.6084/m9.figshare.12601388
Gomphidae	<i>Austrogomphus arbustorum</i>	M	AM	K403364	https://doi.org/10.6084/m9.figshare.12601388
Gomphidae	<i>Austrogomphus australis</i>	F	AM	K305033	https://doi.org/10.6084/m9.figshare.12601355
Gomphidae	<i>Austrogomphus australis</i>	M	AM	K305035	https://doi.org/10.6084/m9.figshare.12601355
Gomphidae	<i>Austrogomphus bifurcatus</i>	F	AM	K305684	https://doi.org/10.6084/m9.figshare.12601340
Gomphidae	<i>Austrogomphus bifurcatus</i>	M	AM	K305682	https://doi.org/10.6084/m9.figshare.12601340
Gomphidae	<i>Austrogomphus collaris</i>	F	AM	K337605	https://doi.org/10.6084/m9.figshare.12601328
Gomphidae	<i>Austrogomphus collaris</i>	M	AM	K403327	https://doi.org/10.6084/m9.figshare.12601328
Gomphidae	<i>Austrogomphus cornutus</i>	F	AM	K302079	https://doi.org/10.6084/m9.figshare.12601304
Gomphidae	<i>Austrogomphus cornutus</i>	M	AM	K302074	https://doi.org/10.6084/m9.figshare.12601304
Gomphidae	<i>Austrogomphus divaricatus</i>	F	AM	K304995	https://doi.org/10.6084/m9.figshare.12601277
Gomphidae	<i>Austrogomphus divaricatus</i>	M	AM	K305689	https://doi.org/10.6084/m9.figshare.12601277
Gomphidae	<i>Austrogomphus doddi</i>	F	AM	K302071	https://doi.org/10.6084/m9.figshare.12601247
Gomphidae	<i>Austrogomphus doddi</i>	M	AM	K403329	https://doi.org/10.6084/m9.figshare.12601247
Gomphidae	<i>Austrogomphus gordonii</i>	F	ANIC	7-005644	https://doi.org/10.6084/m9.figshare.12601214
Gomphidae	<i>Austrogomphus gordonii</i>	M	AM	K403326	https://doi.org/10.6084/m9.figshare.12601214
Gomphidae	<i>Austrogomphus guerini</i>	F	AM	K304978	https://doi.org/10.6084/m9.figshare.12601208
Gomphidae	<i>Austrogomphus guerini</i>	M	AM	K304967	https://doi.org/10.6084/m9.figshare.12601208
Gomphidae	<i>Austrogomphus mjobergi</i>	F	AM	K304964	https://doi.org/10.6084/m9.figshare.12601187
Gomphidae	<i>Austrogomphus mjobergi</i>	M	AM	K403330	https://doi.org/10.6084/m9.figshare.12601187
Gomphidae	<i>Austrogomphus mouldsorum</i>	F	AM	K292022	https://doi.org/10.6084/m9.figshare.12601115
Gomphidae	<i>Austrogomphus ochraceus</i>	F	AM	K337616	https://doi.org/10.6084/m9.figshare.12601079
Gomphidae	<i>Austrogomphus ochraceus</i>	M	AM	K302139	https://doi.org/10.6084/m9.figshare.12601079
Gomphidae	<i>Austrogomphus praeruptus</i>	F	AM	K304966	https://doi.org/10.6084/m9.figshare.12601043
Gomphidae	<i>Austrogomphus praeruptus</i>	M	AM	K304965	https://doi.org/10.6084/m9.figshare.12601043
Gomphidae	<i>Austrogomphus prasinus</i>	F	AM	K305012	https://doi.org/10.6084/m9.figshare.12601037
Gomphidae	<i>Austrogomphus prasinus</i>	M	AM	K305016	https://doi.org/10.6084/m9.figshare.12601037
Gomphidae	<i>Austrogomphus turneri</i>	F	AM	K302116	https://doi.org/10.6084/m9.figshare.12601034
Gomphidae	<i>Austrogomphus turneri</i>	M	AM	K302115	https://doi.org/10.6084/m9.figshare.12601034
Aeshnidae	<i>Austrogynacantha heterogena</i>	F	AM	K305438	https://doi.org/10.6084/m9.figshare.12601031
Aeshnidae	<i>Austrogynacantha heterogena</i>	M	AM	K305443	https://doi.org/10.6084/m9.figshare.12601031
Lestidae	<i>Austrolestes aleison</i>	F	AM	K403349	https://doi.org/10.6084/m9.figshare.12597548
Lestidae	<i>Austrolestes aleison</i>	M	AM	K403348	https://doi.org/10.6084/m9.figshare.12597548
Lestidae	<i>Austrolestes analis</i>	F	AM	K301547	https://doi.org/10.6084/m9.figshare.12597545
Lestidae	<i>Austrolestes analis</i>	M	AM	K337808	https://doi.org/10.6084/m9.figshare.12597545
Lestidae	<i>Austrolestes annulosus</i>	F	AM	K301536	https://doi.org/10.6084/m9.figshare.12597539
Lestidae	<i>Austrolestes annulosus</i>	M	AM	K337813	https://doi.org/10.6084/m9.figshare.12597539
Lestidae	<i>Austrolestes aridus</i>	F	AM	K301530	https://doi.org/10.6084/m9.figshare.12597530
Lestidae	<i>Austrolestes aridus</i>	M	AM	K301529	https://doi.org/10.6084/m9.figshare.12597530
Lestidae	<i>Austrolestes cingulatus</i>	F	AM	K301524	https://doi.org/10.6084/m9.figshare.12597527
Lestidae	<i>Austrolestes cingulatus</i>	M	AM	K337814	https://doi.org/10.6084/m9.figshare.12597527
Lestidae	<i>Austrolestes insularis</i>	F	AM	K301514	https://doi.org/10.6084/m9.figshare.12597524
Lestidae	<i>Austrolestes insularis</i>	M	AM	K301512	https://doi.org/10.6084/m9.figshare.12597524
Lestidae	<i>Austrolestes io</i>	F	AM	K403351	https://doi.org/10.6084/m9.figshare.12597518
Lestidae	<i>Austrolestes io</i>	M	AM	K403350	https://doi.org/10.6084/m9.figshare.12597518
Lestidae	<i>Austrolestes leda</i>	F	AM	K301498	https://doi.org/10.6084/m9.figshare.12597515
Lestidae	<i>Austrolestes leda</i>	M	AM	K301497	https://doi.org/10.6084/m9.figshare.12597515
Lestidae	<i>Austrolestes minjerriba</i>	F	AM	K302063	https://doi.org/10.6084/m9.figshare.12597509
Lestidae	<i>Austrolestes minjerriba</i>	M	AM	K305602	https://doi.org/10.6084/m9.figshare.12597509
Lestidae	<i>Austrolestes psyche</i>	F	AM	K302046	https://doi.org/10.6084/m9.figshare.12597506
Lestidae	<i>Austrolestes psyche</i>	M	AM	K302068	https://doi.org/10.6084/m9.figshare.12597506
Austropetaliidae	<i>Austropetalia patricia</i>	F	AM	K403343	https://doi.org/10.6084/m9.figshare.12601019
Austropetaliidae	<i>Austropetalia patricia</i>	M	AM	K305484	https://doi.org/10.6084/m9.figshare.12601019
Austropetaliidae	<i>Austropetalia tonyana</i>	F	ANIC	7-006152	https://doi.org/10.6084/m9.figshare.12601013
Austropetaliidae	<i>Austropetalia tonyana</i>	M	AM	K305483	https://doi.org/10.6084/m9.figshare.12601013
Telephlebiidae	<i>Austrophlebia costalis</i>	F	AM	K299346	https://doi.org/10.6084/m9.figshare.12601004
Telephlebiidae	<i>Austrophlebia costalis</i>	M	AM	K299351	https://doi.org/10.6084/m9.figshare.12601004
Telephlebiidae	<i>Austrophlebia subcostalis</i>	F	ANIC	7-006318	https://doi.org/10.6084/m9.figshare.12601001
Telephlebiidae	<i>Austrophlebia subcostalis</i>	M	ANIC	7-009666	https://doi.org/10.6084/m9.figshare.12601001
Austrocorduliidae	<i>Austrophya mystica</i>	F	AM	K300168	https://doi.org/10.6084/m9.figshare.12600998
Austrocorduliidae	<i>Austrophya mystica</i>	M	AM	K300167	https://doi.org/10.6084/m9.figshare.12600998
Isostictidae	<i>Austrosticta fieldi</i>	F	ANIC	7-002795	https://doi.org/10.6084/m9.figshare.12597500
Isostictidae	<i>Austrosticta fieldi</i>	M	ANIC	7-002791	https://doi.org/10.6084/m9.figshare.12597500
Isostictidae	<i>Austrosticta frater</i>	F	AM	K301419	https://doi.org/10.6084/m9.figshare.12597494
Isostictidae	<i>Austrosticta frater</i>	M	AM	K301417	https://doi.org/10.6084/m9.figshare.12597494
Isostictidae	<i>Austrosticta soror</i>	F	ANIC	7-002805	https://doi.org/10.6084/m9.figshare.12597491
Isostictidae	<i>Austrosticta soror</i>	M	ANIC	7-002800	https://doi.org/10.6084/m9.figshare.12597491
Synthemistidae	<i>Austrosynthemis cyanitincta</i>	F	AM	K403345	https://doi.org/10.6084/m9.figshare.12600995
Synthemistidae	<i>Austrosynthemis cyanitincta</i>	M	AM	K337685	https://doi.org/10.6084/m9.figshare.12600995
Libellulidae	<i>Austrothemis nigrescens</i>	F	AM	K299495	https://doi.org/10.6084/m9.figshare.12600992

family	species	sex	Coll.	Coll.Reg.	figshare DOI for wing images
Libellulidae	<i>Austrothemis nigrescens</i>	M	AM	K299491	https://doi.org/10.6084/m9.figshare.12600992
Libellulidae	<i>Brachydiplax denticauda</i>	F	AM	K299485	https://doi.org/10.6084/m9.figshare.12600965
Libellulidae	<i>Brachydiplax denticauda</i>	M	AM	K299489	https://doi.org/10.6084/m9.figshare.12600965
Libellulidae	<i>Brachydiplax duivenbodei</i>	M	AM	K403372	https://doi.org/10.6084/m9.figshare.12600854
Coenagrionidae	<i>Caligrion billinghursti</i>	F	AM	K301097	https://doi.org/10.6084/m9.figshare.12597467
Coenagrionidae	<i>Caligrion billinghursti</i>	M	AM	K301098	https://doi.org/10.6084/m9.figshare.12597467
Libellulidae	<i>Camacinia othello</i>	F	AM	K403335	https://doi.org/10.6084/m9.figshare.12600845
Libellulidae	<i>Camacinia othello</i>	M	AM	K403334	https://doi.org/10.6084/m9.figshare.12600845
Coenagrionidae	<i>Ceriagrion aeruginosum</i>	F	AM	K301085	https://doi.org/10.6084/m9.figshare.12597443
Coenagrionidae	<i>Ceriagrion aeruginosum</i>	M	AM	K301087	https://doi.org/10.6084/m9.figshare.12597443
Synlestidae	<i>Chorismagrion risi</i>	F	AM	K301633	https://doi.org/10.6084/m9.figshare.12597413
Synlestidae	<i>Chorismagrion risi</i>	M	AM	K301630	https://doi.org/10.6084/m9.figshare.12597413
Synthemistidae	<i>Choristhemis flavoterminalis</i>	F	AM	K299909	https://doi.org/10.6084/m9.figshare.12600839
Synthemistidae	<i>Choristhemis flavoterminalis</i>	M	AM	K299913	https://doi.org/10.6084/m9.figshare.12600839
Coenagrionidae	<i>Coenagrion lyelli</i>	F	AM	K301103	https://doi.org/10.6084/m9.figshare.12592064
Coenagrionidae	<i>Coenagrion lyelli</i>	M	AM	K301111	https://doi.org/10.6084/m9.figshare.12592064
Cordulephidae	<i>Cordulephya bidens</i>	F	ANIC	7-010421	https://doi.org/10.6084/m9.figshare.12600836
Cordulephidae	<i>Cordulephya bidens</i>	M	ANIC	7-010420	https://doi.org/10.6084/m9.figshare.12600836
Cordulephidae	<i>Cordulephya divergens</i>	F	AM	K259718	https://doi.org/10.6084/m9.figshare.12600830
Cordulephidae	<i>Cordulephya divergens</i>	M	AM	K259816	https://doi.org/10.6084/m9.figshare.12600830
Cordulephidae	<i>Cordulephya montana</i>	F	ANIC	7-010414	https://doi.org/10.6084/m9.figshare.12600827
Cordulephidae	<i>Cordulephya montana</i>	M	AM	K305491	https://doi.org/10.6084/m9.figshare.12600827
Cordulephidae	<i>Cordulephya pygmaea</i>	F	AM	K403342	https://doi.org/10.6084/m9.figshare.12600818
Cordulephidae	<i>Cordulephya pygmaea</i>	M	AM	K259814	https://doi.org/10.6084/m9.figshare.12600818
Libellulidae	<i>Crocothemis nigrifrons</i>	F	AM	K299482	https://doi.org/10.6084/m9.figshare.12600812
Libellulidae	<i>Crocothemis nigrifrons</i>	M	AM	K299480	https://doi.org/10.6084/m9.figshare.12600812
Brachytronidae	<i>Dendroaeschna conspersa</i>	F	AM	K299431	https://doi.org/10.6084/m9.figshare.12600809
Brachytronidae	<i>Dendroaeschna conspersa</i>	M	AM	K299433	https://doi.org/10.6084/m9.figshare.12600809
Lestoideidae	<i>Diphlebia coerulescens</i>	F	AM	K301750	https://doi.org/10.6084/m9.figshare.12592055
Lestoideidae	<i>Diphlebia coerulescens</i>	M	AM	K301757	https://doi.org/10.6084/m9.figshare.12592055
Lestoideidae	<i>Diphlebia euphoeoides</i>	F	AM	K301716	https://doi.org/10.6084/m9.figshare.12592052
Lestoideidae	<i>Diphlebia euphoeoides</i>	M	AM	K301723	https://doi.org/10.6084/m9.figshare.12592052
Lestoideidae	<i>Diphlebia hybridoides</i>	F	AM	K301691	https://doi.org/10.6084/m9.figshare.12592043
Lestoideidae	<i>Diphlebia hybridoides</i>	M	AM	K301690	https://doi.org/10.6084/m9.figshare.12592043
Lestoideidae	<i>Diphlebia lestoides</i>	F	AM	K301684	https://doi.org/10.6084/m9.figshare.12592028
Lestoideidae	<i>Diphlebia lestoides</i>	M	AM	K301685	https://doi.org/10.6084/m9.figshare.12592028
Lestoideidae	<i>Diphlebia nymphoides</i>	F	AM	K301672	https://doi.org/10.6084/m9.figshare.12592019
Lestoideidae	<i>Diphlebia nymphoides</i>	M	AM	K301673	https://doi.org/10.6084/m9.figshare.12592019
Libellulidae	<i>Diplacodes bipunctata</i>	F	AM	K299465	https://doi.org/10.6084/m9.figshare.12600791
Libellulidae	<i>Diplacodes bipunctata</i>	M	AM	K305566	https://doi.org/10.6084/m9.figshare.12600791
Libellulidae	<i>Diplacodes haematodes</i>	F	AM	K337655	https://doi.org/10.6084/m9.figshare.12600788
Libellulidae	<i>Diplacodes haematodes</i>	M	AM	K305549	https://doi.org/10.6084/m9.figshare.12600788
Libellulidae	<i>Diplacodes melanopsis</i>	F	AM	K299523	https://doi.org/10.6084/m9.figshare.12600779
Libellulidae	<i>Diplacodes melanopsis</i>	M	AM	K299525	https://doi.org/10.6084/m9.figshare.12600779
Libellulidae	<i>Diplacodes nebulosa</i>	F	AM	K403333	https://doi.org/10.6084/m9.figshare.12600755
Libellulidae	<i>Diplacodes nebulosa</i>	M	AM	K299519	https://doi.org/10.6084/m9.figshare.12600755
Libellulidae	<i>Diplacodes trivialis</i>	F	AM	K299533	https://doi.org/10.6084/m9.figshare.12600743
Libellulidae	<i>Diplacodes trivialis</i>	M	AM	K299540	https://doi.org/10.6084/m9.figshare.12600743
Telephlebiidae	<i>Dromaeschna forcipata</i>	F	AM	K337753	https://doi.org/10.6084/m9.figshare.12600689
Telephlebiidae	<i>Dromaeschna forcipata</i>	M	AM	K300759	https://doi.org/10.6084/m9.figshare.12600689
Telephlebiidae	<i>Dromaeschna weiskei</i>	F	AM	K299368	https://doi.org/10.6084/m9.figshare.12600632
Telephlebiidae	<i>Dromaeschna weiskei</i>	M	AM	K301062	https://doi.org/10.6084/m9.figshare.12600632
Synlestidae	<i>Episynlestes albicauda</i>	F	AM	K301625	https://doi.org/10.6084/m9.figshare.12592016
Synlestidae	<i>Episynlestes albicauda</i>	M	AM	K301627	https://doi.org/10.6084/m9.figshare.12592016
Synlestidae	<i>Episynlestes cristatus</i>	F	AM	K301616	https://doi.org/10.6084/m9.figshare.12592007
Synlestidae	<i>Episynlestes cristatus</i>	M	AM	K301617	https://doi.org/10.6084/m9.figshare.12592007
Synlestidae	<i>Episynlestes intermedius</i>	F	QM	T192492	https://doi.org/10.6084/m9.figshare.12592001
Synlestidae	<i>Episynlestes intermedius</i>	M	ANIC	7-008995	https://doi.org/10.6084/m9.figshare.12592001
Isostictidae	<i>Eurysticta coolawanyah</i>	F	ANIC	7-002757	https://doi.org/10.6084/m9.figshare.12591989
Isostictidae	<i>Eurysticta coolawanyah</i>	M	AM	K301415	https://doi.org/10.6084/m9.figshare.12591989
Isostictidae	<i>Eurysticta coomalie</i>	F	ANIC	7-002727	https://doi.org/10.6084/m9.figshare.12591965
Isostictidae	<i>Eurysticta coomalie</i>	M	ANIC	7-002727	https://doi.org/10.6084/m9.figshare.12591965
Isostictidae	<i>Eurysticta kununurra</i>	F	ANIC	7-002723	https://doi.org/10.6084/m9.figshare.12591956
Isostictidae	<i>Eurysticta kununurra</i>	M	ANIC	7-002723	https://doi.org/10.6084/m9.figshare.12591956
Synthemistidae	<i>Eusynthemis aurolineata</i>	F	AM	K299879	https://doi.org/10.6084/m9.figshare.12600584
Synthemistidae	<i>Eusynthemis aurolineata</i>	M	AM	K299863	https://doi.org/10.6084/m9.figshare.12600584
Synthemistidae	<i>Eusynthemis barbarae</i>	F	AM	K259713	https://doi.org/10.6084/m9.figshare.12600554
Synthemistidae	<i>Eusynthemis barbarae</i>	M	AM	K292027	https://doi.org/10.6084/m9.figshare.12600554
Synthemistidae	<i>Eusynthemis brevistyla</i>	F	AM	K299767	https://doi.org/10.6084/m9.figshare.12600536
Synthemistidae	<i>Eusynthemis brevistyla</i>	M	AM	K299763	https://doi.org/10.6084/m9.figshare.12600536
Synthemistidae	<i>Eusynthemis deniseae</i>	F	AM	K299829	https://doi.org/10.6084/m9.figshare.12600404
Synthemistidae	<i>Eusynthemis deniseae</i>	M	AM	K299828	https://doi.org/10.6084/m9.figshare.12600404
Synthemistidae	<i>Eusynthemis guttata</i>	F	AM	K299822	https://doi.org/10.6084/m9.figshare.12600398
Synthemistidae	<i>Eusynthemis guttata</i>	M	AM	K299817	https://doi.org/10.6084/m9.figshare.12600398
Synthemistidae	<i>Eusynthemis nigra</i>	F	AM	K305698	https://doi.org/10.6084/m9.figshare.12600389
Synthemistidae	<i>Eusynthemis nigra</i>	M	AM	K300197	https://doi.org/10.6084/m9.figshare.12600389
Synthemistidae	<i>Eusynthemis rentziana</i>	F	AM	K299807	https://doi.org/10.6084/m9.figshare.12600386
Synthemistidae	<i>Eusynthemis rentziana</i>	M	ANIC	7-010123	https://doi.org/10.6084/m9.figshare.12600386
Synthemistidae	<i>Eusynthemis tenera</i>	F	ANIC	7-010114	https://doi.org/10.6084/m9.figshare.12600383
Synthemistidae	<i>Eusynthemis tilyardi</i>	F	AM	K299805	https://doi.org/10.6084/m9.figshare.12600380

family	species	sex	Coll.	Coll.Reg.	figshare DOI for wing images
Synthemistidae	<i>Eusynthemis tillyardi</i>	M	AM	K299806	https://doi.org/10.6084/m9.figshare.12600380
Synthemistidae	<i>Eusynthemis ursa</i>	M	ANIC	7-010021	https://doi.org/10.6084/m9.figshare.12600374
Synthemistidae	<i>Eusynthemis ursula</i>	M	AM	K259768	https://doi.org/10.6084/m9.figshare.12600371
Synthemistidae	<i>Eusynthemis virgula</i>	F	AM	K299792	https://doi.org/10.6084/m9.figshare.12600368
Synthemistidae	<i>Eusynthemis virgula</i>	M	AM	K299787	https://doi.org/10.6084/m9.figshare.12600368
Megapodagrionidae	<i>Griseargiolestes albescens</i>	F	AM	K301834	https://doi.org/10.6084/m9.figshare.12591950
Megapodagrionidae	<i>Griseargiolestes albescens</i>	M	AM	K301827	https://doi.org/10.6084/m9.figshare.12591950
Megapodagrionidae	<i>Griseargiolestes bucki</i>	F	AM	K301796	https://doi.org/10.6084/m9.figshare.12591944
Megapodagrionidae	<i>Griseargiolestes bucki</i>	M	AM	K301791	https://doi.org/10.6084/m9.figshare.12591944
Megapodagrionidae	<i>Griseargiolestes eboracus</i>	F	AM	K301492	https://doi.org/10.6084/m9.figshare.12591926
Megapodagrionidae	<i>Griseargiolestes eboracus</i>	M	AM	K301491	https://doi.org/10.6084/m9.figshare.12591926
Megapodagrionidae	<i>Griseargiolestes fontanus</i>	F	ANIC	7-009109	https://doi.org/10.6084/m9.figshare.12591914
Megapodagrionidae	<i>Griseargiolestes fontanus</i>	M	ANIC	7-009116	https://doi.org/10.6084/m9.figshare.12591914
Megapodagrionidae	<i>Griseargiolestes griseus</i>	F	AM	K301474	https://doi.org/10.6084/m9.figshare.12591905
Megapodagrionidae	<i>Griseargiolestes griseus</i>	M	AM	K301478	https://doi.org/10.6084/m9.figshare.12591905
Megapodagrionidae	<i>Griseargiolestes intermedius</i>	F	ANIC	7-009050	https://doi.org/10.6084/m9.figshare.12591902
Megapodagrionidae	<i>Griseargiolestes intermedius</i>	M	AM	K301447	https://doi.org/10.6084/m9.figshare.12591902
Megapodagrionidae	<i>Griseargiolestes metallicus</i>	F	ANIC	7-009063	https://doi.org/10.6084/m9.figshare.12591899
Megapodagrionidae	<i>Griseargiolestes metallicus</i>	M	ANIC	7-009060	https://doi.org/10.6084/m9.figshare.12591899
Aeshnidae	<i>Gynacantha dobsoni</i>	F	AM	K305429	https://doi.org/10.6084/m9.figshare.12600080
Aeshnidae	<i>Gynacantha dobsoni</i>	M	AM	K305430	https://doi.org/10.6084/m9.figshare.12600080
Aeshnidae	<i>Gynacantha kirbyi</i>	F	AM	K305422	https://doi.org/10.6084/m9.figshare.12600071
Aeshnidae	<i>Gynacantha kirbyi</i>	M	AM	K305424	https://doi.org/10.6084/m9.figshare.12600071
Aeshnidae	<i>Gynacantha mocsaryi</i>	F	AM	K305669	https://doi.org/10.6084/m9.figshare.12600065
Aeshnidae	<i>Gynacantha mocsaryi</i>	M	AM	K305421	https://doi.org/10.6084/m9.figshare.12600065
Aeshnidae	<i>Gynacantha nourslangie</i>	F	AM	K403321	https://doi.org/10.6084/m9.figshare.12600059
Aeshnidae	<i>Gynacantha nourslangie</i>	M	AM	K403320	https://doi.org/10.6084/m9.figshare.12600059
Aeshnidae	<i>Gynacantha rosenbergi</i>	F	AM	K305408	https://doi.org/10.6084/m9.figshare.12600053
Aeshnidae	<i>Gynacantha rosenbergi</i>	M	AM	K305407	https://doi.org/10.6084/m9.figshare.12600053
Corduliidae	<i>Hemicordulia australiae</i>	F	AM	K300247	https://doi.org/10.6084/m9.figshare.12600047
Corduliidae	<i>Hemicordulia australiae</i>	M	AM	K300250	https://doi.org/10.6084/m9.figshare.12600047
Corduliidae	<i>Hemicordulia continentalis</i>	F	AM	K300228	https://doi.org/10.6084/m9.figshare.12600044
Corduliidae	<i>Hemicordulia continentalis</i>	M	AM	K300227	https://doi.org/10.6084/m9.figshare.12600044
Corduliidae	<i>Hemicordulia flava</i>	F	ANIC	7-010564	https://doi.org/10.6084/m9.figshare.12600041
Corduliidae	<i>Hemicordulia flava</i>	M	AM	K300222	https://doi.org/10.6084/m9.figshare.12600041
Corduliidae	<i>Hemicordulia intermedia</i>	F	AM	K300217	https://doi.org/10.6084/m9.figshare.12600032
Corduliidae	<i>Hemicordulia intermedia</i>	M	AM	K300211	https://doi.org/10.6084/m9.figshare.12600032
Corduliidae	<i>Hemicordulia kalliste</i>	F	ANIC	7-010571	https://doi.org/10.6084/m9.figshare.12600029
Corduliidae	<i>Hemicordulia kalliste</i>	M	ANIC	7-010570	https://doi.org/10.6084/m9.figshare.12600029
Corduliidae	<i>Hemicordulia koomina</i>	F	ANIC	7-010568	https://doi.org/10.6084/m9.figshare.12600026
Corduliidae	<i>Hemicordulia koomina</i>	M	ANIC	7-010566	https://doi.org/10.6084/m9.figshare.12600026
Corduliidae	<i>Hemicordulia superba</i>	F	AM	K305501	https://doi.org/10.6084/m9.figshare.12600023
Corduliidae	<i>Hemicordulia superba</i>	M	QM	T181120	https://doi.org/10.6084/m9.figshare.12600023
Corduliidae	<i>Hemicordulia tau</i>	F	AM	K305494	https://doi.org/10.6084/m9.figshare.12600017
Corduliidae	<i>Hemicordulia tau</i>	M	AM	K337597	https://doi.org/10.6084/m9.figshare.12600017
Gomphidae	<i>Hemigomphus atratus</i>	M	ANIC	7-005966	https://doi.org/10.6084/m9.figshare.12600011
Gomphidae	<i>Hemigomphus comitatus</i>	F	AM	K305688	https://doi.org/10.6084/m9.figshare.12600005
Gomphidae	<i>Hemigomphus comitatus</i>	M	AM	K305117	https://doi.org/10.6084/m9.figshare.12600005
Gomphidae	<i>Hemigomphus cooloola</i>	F	ANIC	7-005971	https://doi.org/10.6084/m9.figshare.12600002
Gomphidae	<i>Hemigomphus cooloola</i>	M	ANIC	7-007445	https://doi.org/10.6084/m9.figshare.12600002
Gomphidae	<i>Hemigomphus gouldii</i>	F	AM	K305091	https://doi.org/10.6084/m9.figshare.12599996
Gomphidae	<i>Hemigomphus gouldii</i>	M	AM	K305087	https://doi.org/10.6084/m9.figshare.12599996
Gomphidae	<i>Hemigomphus heteroclytus</i>	F	AM	K305063	https://doi.org/10.6084/m9.figshare.12599990
Gomphidae	<i>Hemigomphus heteroclytus</i>	M	AM	K305068	https://doi.org/10.6084/m9.figshare.12599990
Gomphidae	<i>Hemigomphus magela</i>	F	ANIC	7-005995	https://doi.org/10.6084/m9.figshare.12599984
Gomphidae	<i>Hemigomphus magela</i>	M	ANIC	7-005993	https://doi.org/10.6084/m9.figshare.12599984
Gomphidae	<i>Hemigomphus theischingeri</i>	F	AM	K403344	https://doi.org/10.6084/m9.figshare.12599981
Gomphidae	<i>Hemigomphus theischingeri</i>	M	AM	K202112	https://doi.org/10.6084/m9.figshare.12599981
Hemiphlebiidae	<i>Hemiphlebia mirabilis</i>	F	AM	K280829	https://doi.org/10.6084/m9.figshare.12591890
Hemiphlebiidae	<i>Hemiphlebia mirabilis</i>	M	AM	K280832	https://doi.org/10.6084/m9.figshare.12591890
Austrocorduliidae	<i>Hesperocordulia berthoudi</i>	F	AM	K403363	https://doi.org/10.6084/m9.figshare.12599975
Austrocorduliidae	<i>Hesperocordulia berthoudi</i>	M	AM	K337587	https://doi.org/10.6084/m9.figshare.12599975
Libellulidae	<i>Huonia melvillensis</i>	M	AM	K299549	https://doi.org/10.6084/m9.figshare.12599969
Libellulidae	<i>Hydrobasileus brevistylus</i>	F	AM	K299558	https://doi.org/10.6084/m9.figshare.12599960
Libellulidae	<i>Hydrobasileus brevistylus</i>	M	AM	K299554	https://doi.org/10.6084/m9.figshare.12599960
Lindeniidae	<i>Ictinogomphus australis</i>	F	AM	K305045	https://doi.org/10.6084/m9.figshare.12599957
Lindeniidae	<i>Ictinogomphus australis</i>	M	AM	K305040	https://doi.org/10.6084/m9.figshare.12599957
Lindeniidae	<i>Ictinogomphus dobsoni</i>	F	AM	K456313	https://doi.org/10.6084/m9.figshare.12599954
Lindeniidae	<i>Ictinogomphus dobsoni</i>	M	AM	K305036	https://doi.org/10.6084/m9.figshare.12599954
Lindeniidae	<i>Ictinogomphus paulini</i>	M	AM	K403376	https://doi.org/10.6084/m9.figshare.12599948
Lestidae	<i>Indolestes alleni</i>	F	AM	K302036	https://doi.org/10.6084/m9.figshare.12591884
Lestidae	<i>Indolestes alleni</i>	M	AM	K403347	https://doi.org/10.6084/m9.figshare.12591884
Lestidae	<i>Indolestes obiri</i>	F	ANIC	7-003705	https://doi.org/10.6084/m9.figshare.12591881
Lestidae	<i>Indolestes obiri</i>	M	ANIC	7-003707	https://doi.org/10.6084/m9.figshare.12591881
Lestidae	<i>Indolestes tenuissimus</i>	F	AM	K302034	https://doi.org/10.6084/m9.figshare.12591878
Lestidae	<i>Indolestes tenuissimus</i>	M	AM	K302032	https://doi.org/10.6084/m9.figshare.12591878
Coenagrionidae	<i>Ischnura aurora</i>	F	AM	K301077	https://doi.org/10.6084/m9.figshare.12591869
Coenagrionidae	<i>Ischnura aurora</i>	M	AM	K301076	https://doi.org/10.6084/m9.figshare.12591869
Coenagrionidae	<i>Ischnura heterosticta</i>	F	AM	K305404	https://doi.org/10.6084/m9.figshare.12591863
Coenagrionidae	<i>Ischnura heterosticta</i>	M	AM	K305403	https://doi.org/10.6084/m9.figshare.12591863

family	species	sex	Coll.	Coll.Reg.	figshare DOI for wing images
Coenagrionidae	<i>Ichnura pruinescens</i>	F	AM	K305381	https://doi.org/10.6084/m9.figshare.12591860
Coenagrionidae	<i>Ichnura pruinescens</i>	M	AM	K305662	https://doi.org/10.6084/m9.figshare.12591860
Isostictidae	<i>Labidosticta vallis</i>	F	ANIC	7-012205	https://doi.org/10.6084/m9.figshare.12591842
Isostictidae	<i>Labidosticta vallis</i>	M	AM	K301412	https://doi.org/10.6084/m9.figshare.12591842
Libellulidae	<i>Lathrecista asiatica</i>	F	AM	K299562	https://doi.org/10.6084/m9.figshare.12599945
Libellulidae	<i>Lathrecista asiatica</i>	M	AM	K299560	https://doi.org/10.6084/m9.figshare.12599945
Austrocorduliidae	<i>Lathrocordulia garrisoni</i>	M	ANIC	7-010330	https://doi.org/10.6084/m9.figshare.12599942
Austrocorduliidae	<i>Lathrocordulia metallica</i>	F	ANIC	7-010343	https://doi.org/10.6084/m9.figshare.12599939
Austrocorduliidae	<i>Lathrocordulia metallica</i>	M	AM	K337589	https://doi.org/10.6084/m9.figshare.12599939
Lestidae	<i>Lestes concinnus</i>	F	AM	K305601	https://doi.org/10.6084/m9.figshare.12591833
Lestidae	<i>Lestes concinnus</i>	M	AM	K302019	https://doi.org/10.6084/m9.figshare.12591833
Lestoideidae	<i>Lestoidea barbarae</i>	M	ANIC	7-002864	https://doi.org/10.6084/m9.figshare.12591797
Lestoideidae	<i>Lestoidea brevicauda</i>	F	AM	K301659	https://doi.org/10.6084/m9.figshare.12591788
Lestoideidae	<i>Lestoidea brevicauda</i>	M	AM	K301661	https://doi.org/10.6084/m9.figshare.12591788
Lestoideidae	<i>Lestoidea conjuncta</i>	F	AM	K305608	https://doi.org/10.6084/m9.figshare.12591785
Lestoideidae	<i>Lestoidea conjuncta</i>	M	AM	K301646	https://doi.org/10.6084/m9.figshare.12591785
Lestoideidae	<i>Lestoidea lewisiana</i>	F	AM	K301645	https://doi.org/10.6084/m9.figshare.12591773
Lestoideidae	<i>Lestoidea lewisiana</i>	M	AM	K301645	https://doi.org/10.6084/m9.figshare.12591773
Isostictidae	<i>Lithosticta macra</i>	F	ANIC	7-002813	https://doi.org/10.6084/m9.figshare.12591761
Isostictidae	<i>Lithosticta macra</i>	M	ANIC	7-002814	https://doi.org/10.6084/m9.figshare.12591761
Libellulidae	<i>Macrodiplax cora</i>	F	AM	K299578	https://doi.org/10.6084/m9.figshare.12599933
Libellulidae	<i>Macrodiplax cora</i>	M	AM	K299575	https://doi.org/10.6084/m9.figshare.12599933
Macromiidae	<i>Macromia tillyardi</i>	F	AM	K403338	https://doi.org/10.6084/m9.figshare.12599930
Macromiidae	<i>Macromia tillyardi</i>	M	AM	K300147	https://doi.org/10.6084/m9.figshare.12599930
Macromiidae	<i>Macromia viridescens</i>	F	AM	K403339	https://doi.org/10.6084/m9.figshare.12599927
Macromiidae	<i>Macromia viridescens</i>	M	AM	K259738	https://doi.org/10.6084/m9.figshare.12599927
Corduliidae	<i>Metaphya tillyardi</i>	M	AM	K259746	https://doi.org/10.6084/m9.figshare.12599924
Austrocorduliidae	<i>Micromidia atrifrons</i>	F	AM	K300160	https://doi.org/10.6084/m9.figshare.12599921
Austrocorduliidae	<i>Micromidia atrifrons</i>	M	AM	K300159	https://doi.org/10.6084/m9.figshare.12599921
Austrocorduliidae	<i>Micromidia convergens</i>	F	AM	K300149	https://doi.org/10.6084/m9.figshare.12599918
Austrocorduliidae	<i>Micromidia convergens</i>	M	AM	K259797	https://doi.org/10.6084/m9.figshare.12599918
Austrocorduliidae	<i>Micromidia rodericki</i>	F	ANIC	7-010408	https://doi.org/10.6084/m9.figshare.12599912
Austrocorduliidae	<i>Micromidia rodericki</i>	M	ANIC	7-010408	https://doi.org/10.6084/m9.figshare.12599912
Megapodagrionidae	<i>Miniargiolestes minimus</i>	F	AM	K339021	https://doi.org/10.6084/m9.figshare.12591758
Megapodagrionidae	<i>Miniargiolestes minimus</i>	M	AM	K337859	https://doi.org/10.6084/m9.figshare.12591758
Libellulidae	<i>Nannodiplax rubra</i>	F	AM	K299580	https://doi.org/10.6084/m9.figshare.12599909
Libellulidae	<i>Nannodiplax rubra</i>	M	AM	K299593	https://doi.org/10.6084/m9.figshare.12599909
Libellulidae	<i>Nannophlebia eludens</i>	F	AM	K305515	https://doi.org/10.6084/m9.figshare.12599906
Libellulidae	<i>Nannophlebia eludens</i>	M	AM	K299655	https://doi.org/10.6084/m9.figshare.12599906
Libellulidae	<i>Nannophlebia injibandi</i>	F	MAGNT	I001819	https://doi.org/10.6084/m9.figshare.12599903
Libellulidae	<i>Nannophlebia injibandi</i>	M	MAGNT	I001818	https://doi.org/10.6084/m9.figshare.12599903
Libellulidae	<i>Nannophlebia mudginberri</i>	F	MAGNT	I001821	https://doi.org/10.6084/m9.figshare.12599897
Libellulidae	<i>Nannophlebia mudginberri</i>	M	MAGNT	I001822	https://doi.org/10.6084/m9.figshare.12599897
Libellulidae	<i>Nannophlebia risi</i>	F	AM	K299646	https://doi.org/10.6084/m9.figshare.12599894
Libellulidae	<i>Nannophlebia risi</i>	M	AM	K299639	https://doi.org/10.6084/m9.figshare.12599894
Libellulidae	<i>Nannophya australis</i>	F	AM	K299607	https://doi.org/10.6084/m9.figshare.12599891
Libellulidae	<i>Nannophya australis</i>	M	AM	K299625	https://doi.org/10.6084/m9.figshare.12599891
Libellulidae	<i>Nannophya dalei</i>	F	AM	K299604	https://doi.org/10.6084/m9.figshare.12599888
Libellulidae	<i>Nannophya dalei</i>	M	AM	K299601	https://doi.org/10.6084/m9.figshare.12599888
Libellulidae	<i>Nannophya occidentalis</i>	F	ANIC	7-014675	https://doi.org/10.6084/m9.figshare.12599885
Libellulidae	<i>Nannophya occidentalis</i>	M	ANIC	7-014670	https://doi.org/10.6084/m9.figshare.12599885
Libellulidae	<i>Nannophya paulsoni</i>	F	ANIC	7-014658	https://doi.org/10.6084/m9.figshare.12599882
Libellulidae	<i>Nannophya paulsoni</i>	M	ANIC	7-014658	https://doi.org/10.6084/m9.figshare.12599882
Isostictidae	<i>Neosticta canescens</i>	F	AM	K301390	https://doi.org/10.6084/m9.figshare.12591752
Isostictidae	<i>Neosticta canescens</i>	M	AM	K301409	https://doi.org/10.6084/m9.figshare.12591752
Isostictidae	<i>Neosticta fraseri</i>	F	AM	K305621	https://doi.org/10.6084/m9.figshare.12591749
Isostictidae	<i>Neosticta fraseri</i>	M	AM	K301374	https://doi.org/10.6084/m9.figshare.12591749
Isostictidae	<i>Neosticta silvarum</i>	M	ANIC	7-002874	https://doi.org/10.6084/m9.figshare.12591710
Calopterygidae	<i>Neurobasis australis</i>	F	ANIC	unregistered	https://doi.org/10.6084/m9.figshare.12591671
Calopterygidae	<i>Neurobasis australis</i>	M	AM	K403346	https://doi.org/10.6084/m9.figshare.12591671
Libellulidae	<i>Neurothemis oligoneura</i>	F	AM	K299595	https://doi.org/10.6084/m9.figshare.12599879
Libellulidae	<i>Neurothemis oligoneura</i>	M	AM	K299594	https://doi.org/10.6084/m9.figshare.12599879
Libellulidae	<i>Neurothemis stigmatizans</i>	F	AM	K299690	https://doi.org/10.6084/m9.figshare.12599876
Libellulidae	<i>Neurothemis stigmatizans</i>	M	AM	K299687	https://doi.org/10.6084/m9.figshare.12599876
Platycnemididae	<i>Nososticta baroalba</i>	F	AM	K403356	https://doi.org/10.6084/m9.figshare.12591617
Platycnemididae	<i>Nososticta baroalba</i>	M	AM	K403355	https://doi.org/10.6084/m9.figshare.12591617
Platycnemididae	<i>Nososticta coelestina</i>	F	AM	K301320	https://doi.org/10.6084/m9.figshare.12588146
Platycnemididae	<i>Nososticta coelestina</i>	M	AM	K301316	https://doi.org/10.6084/m9.figshare.12588146
Platycnemididae	<i>Nososticta fraterna</i>	F	ANIC	7-002456	https://doi.org/10.6084/m9.figshare.12588125
Platycnemididae	<i>Nososticta fraterna</i>	M	AM	K301312	https://doi.org/10.6084/m9.figshare.12588125
Platycnemididae	<i>Nososticta kalumburu</i>	F	AM	K301311	https://doi.org/10.6084/m9.figshare.12588110
Platycnemididae	<i>Nososticta kalumburu</i>	M	AM	K301310	https://doi.org/10.6084/m9.figshare.12588110
Platycnemididae	<i>Nososticta koolpinyah</i>	F	ANIC	7-002496	https://doi.org/10.6084/m9.figshare.12588101
Platycnemididae	<i>Nososticta koolpinyah</i>	M	ANIC	7-002508	https://doi.org/10.6084/m9.figshare.12588101
Platycnemididae	<i>Nososticta koongarra</i>	F	AM	K301305	https://doi.org/10.6084/m9.figshare.12582056
Platycnemididae	<i>Nososticta koongarra</i>	M	ANIC	7-002528	https://doi.org/10.6084/m9.figshare.12582056
Platycnemididae	<i>Nososticta liveringa</i>	F	ANIC	7-002536	https://doi.org/10.6084/m9.figshare.12582044
Platycnemididae	<i>Nososticta liveringa</i>	M	ANIC	7-011947	https://doi.org/10.6084/m9.figshare.12582044
Platycnemididae	<i>Nososticta mouldsi</i>	F	AM	K301303	https://doi.org/10.6084/m9.figshare.12582017
Platycnemididae	<i>Nososticta mouldsi</i>	M	AM	K301303	https://doi.org/10.6084/m9.figshare.12582017

family	species	sex	Coll.	Coll.Reg.	figshare DOI for wing images
Platycnemididae	<i>Nososticta pilbara</i>	F	AM	K403322	https://doi.org/10.6084/m9.figshare.12582005
Platycnemididae	<i>Nososticta pilbara</i>	M	AM	K301302	https://doi.org/10.6084/m9.figshare.12582005
Platycnemididae	<i>Nososticta solida</i>	F	AM	K301298	https://doi.org/10.6084/m9.figshare.12581978
Platycnemididae	<i>Nososticta solida</i>	M	AM	K301299	https://doi.org/10.6084/m9.figshare.12581978
Platycnemididae	<i>Nososticta solitaria</i>	F	AM	K301262	https://doi.org/10.6084/m9.figshare.12581972
Platycnemididae	<i>Nososticta solitaria</i>	M	AM	K301216	https://doi.org/10.6084/m9.figshare.12581972
Platycnemididae	<i>Nososticta taracumbi</i>	F	ANIC	7-002518	https://doi.org/10.6084/m9.figshare.12581951
Platycnemididae	<i>Nososticta taracumbi</i>	M	AM	K301212	https://doi.org/10.6084/m9.figshare.12581951
Telephlebiidae	<i>Notoaeschna geminata</i>	F	AM	K299343	https://doi.org/10.6084/m9.figshare.12599873
Telephlebiidae	<i>Notoaeschna geminata</i>	M	AM	K299342	https://doi.org/10.6084/m9.figshare.12599873
Telephlebiidae	<i>Notoaeschna sagittata</i>	F	AM	K299331	https://doi.org/10.6084/m9.figshare.12599870
Telephlebiidae	<i>Notoaeschna sagittata</i>	M	AM	K299337	https://doi.org/10.6084/m9.figshare.12599870
Libellulidae	<i>Notolibellula bicolor</i>	M	AM	K299709	https://doi.org/10.6084/m9.figshare.12599864
Gomphidae	<i>Odontogomphus donnellyi</i>	F	ANIC	7-006092	https://doi.org/10.6084/m9.figshare.12599861
Gomphidae	<i>Odontogomphus donnellyi</i>	M	ANIC	7-006094	https://doi.org/10.6084/m9.figshare.12599861
Isostictidae	<i>Oristicta filicicola</i>	F	AM	K301365	https://doi.org/10.6084/m9.figshare.12581906
Isostictidae	<i>Oristicta filicicola</i>	M	AM	K301366	https://doi.org/10.6084/m9.figshare.12581906
Libellulidae	<i>Orthetrum balteatum</i>	F	ANIC	7-013521	https://doi.org/10.6084/m9.figshare.12599858
Libellulidae	<i>Orthetrum balteatum</i>	M	AM	K403368	https://doi.org/10.6084/m9.figshare.12599858
Libellulidae	<i>Orthetrum boumiera</i>	F	AM	K299740	https://doi.org/10.6084/m9.figshare.12599855
Libellulidae	<i>Orthetrum boumiera</i>	M	AM	K299741	https://doi.org/10.6084/m9.figshare.12599855
Libellulidae	<i>Orthetrum caledonicum</i>	F	AM	K299734	https://doi.org/10.6084/m9.figshare.12599849
Libellulidae	<i>Orthetrum caledonicum</i>	M	AM	K305580	https://doi.org/10.6084/m9.figshare.12599849
Libellulidae	<i>Orthetrum migratum</i>	F	AM	K299720	https://doi.org/10.6084/m9.figshare.12599846
Libellulidae	<i>Orthetrum migratum</i>	M	AM	K299722	https://doi.org/10.6084/m9.figshare.12599846
Libellulidae	<i>Orthetrum sabina</i>	F	AM	K305165	https://doi.org/10.6084/m9.figshare.12599843
Libellulidae	<i>Orthetrum sabina</i>	M	AM	K305163	https://doi.org/10.6084/m9.figshare.12599843
Libellulidae	<i>Orthetrum serapia</i>	F	AM	K305148	https://doi.org/10.6084/m9.figshare.12599840
Libellulidae	<i>Orthetrum serapia</i>	M	AM	K305151	https://doi.org/10.6084/m9.figshare.12599840
Libellulidae	<i>Orthetrum villosovittatum</i>	F	AM	K305131	https://doi.org/10.6084/m9.figshare.12599831
Libellulidae	<i>Orthetrum villosovittatum</i>	M	AM	K305129	https://doi.org/10.6084/m9.figshare.12599831
Libellulidae	<i>Pantala flavescens</i>	F	AM	K305237	https://doi.org/10.6084/m9.figshare.12599825
Libellulidae	<i>Pantala flavescens</i>	M	AM	K305335	https://doi.org/10.6084/m9.figshare.12599825
Synthemistidae	<i>Parasyntemis regina</i>	F	AM	K299976	https://doi.org/10.6084/m9.figshare.12599822
Synthemistidae	<i>Parasyntemis regina</i>	M	AM	K299976	https://doi.org/10.6084/m9.figshare.12599822
Corduliidae	<i>Pentathemis membranulata</i>	F	AM	K300201	https://doi.org/10.6084/m9.figshare.12599819
Corduliidae	<i>Pentathemis membranulata</i>	M	AM	K300203	https://doi.org/10.6084/m9.figshare.12599819
Petaluridae	<i>Petalura gigantea</i>	F	AM	K403337	https://doi.org/10.6084/m9.figshare.12599813
Petaluridae	<i>Petalura gigantea</i>	M	AM	K305486	https://doi.org/10.6084/m9.figshare.12599813
Petaluridae	<i>Petalura hesperia</i>	F	ANIC	7-005055	https://doi.org/10.6084/m9.figshare.12599807
Petaluridae	<i>Petalura hesperia</i>	M	ANIC	7-005049	https://doi.org/10.6084/m9.figshare.12599807
Petaluridae	<i>Petalura ingentissima</i>	F	AM	K403367	https://doi.org/10.6084/m9.figshare.12599801
Petaluridae	<i>Petalura ingentissima</i>	M	ANIC	7-005063	https://doi.org/10.6084/m9.figshare.12599801
Petaluridae	<i>Petalura litorea</i>	F	AM	K456322	https://doi.org/10.6084/m9.figshare.12599780
Petaluridae	<i>Petalura litorea</i>	M	QM	T176058	https://doi.org/10.6084/m9.figshare.12599780
Megapodagrionidae	<i>Podopteryx selysi</i>	F	ANIC	7-009055	https://doi.org/10.6084/m9.figshare.12581894
Megapodagrionidae	<i>Podopteryx selysi</i>	M	AM	K301840	https://doi.org/10.6084/m9.figshare.12581894
Libellulidae	<i>Potamarcha congener</i>	F	AM	K305206	https://doi.org/10.6084/m9.figshare.12598652
Libellulidae	<i>Potamarcha congener</i>	M	AM	K305221	https://doi.org/10.6084/m9.figshare.12598652
Corduliidae	<i>Procordulia affinis</i>	F	ANIC	7-010490	https://doi.org/10.6084/m9.figshare.12598649
Corduliidae	<i>Procordulia affinis</i>	M	ANIC	7-010501	https://doi.org/10.6084/m9.figshare.12598649
Corduliidae	<i>Procordulia jacksoniensis</i>	F	AM	K403323	https://doi.org/10.6084/m9.figshare.12598646
Corduliidae	<i>Procordulia jacksoniensis</i>	M	AM	K300208	https://doi.org/10.6084/m9.figshare.12598646
Coenagrionidae	<i>Pseudagrion aureofrons</i>	F	AM	K305372	https://doi.org/10.6084/m9.figshare.12581882
Coenagrionidae	<i>Pseudagrion aureofrons</i>	M	AM	K305371	https://doi.org/10.6084/m9.figshare.12581882
Coenagrionidae	<i>Pseudagrion cingillum</i>	F	ANIC	7-000466	https://doi.org/10.6084/m9.figshare.12581861
Coenagrionidae	<i>Pseudagrion cingillum</i>	M	AM	K305369	https://doi.org/10.6084/m9.figshare.12581861
Coenagrionidae	<i>Pseudagrion ignifer</i>	F	AM	K305325	https://doi.org/10.6084/m9.figshare.12581843
Coenagrionidae	<i>Pseudagrion ignifer</i>	M	AM	K305332	https://doi.org/10.6084/m9.figshare.12581843
Coenagrionidae	<i>Pseudagrion jedda</i>	F	ANIC	7-000961	https://doi.org/10.6084/m9.figshare.12581840
Coenagrionidae	<i>Pseudagrion jedda</i>	M	ANIC	7-001043	https://doi.org/10.6084/m9.figshare.12581840
Coenagrionidae	<i>Pseudagrion lucifer</i>	F	ANIC	7-000426	https://doi.org/10.6084/m9.figshare.12581834
Coenagrionidae	<i>Pseudagrion lucifer</i>	M	AM	K305318	https://doi.org/10.6084/m9.figshare.12581834
Coenagrionidae	<i>Pseudagrion microcephalum</i>	F	AM	K305303	https://doi.org/10.6084/m9.figshare.12581765
Coenagrionidae	<i>Pseudagrion microcephalum</i>	M	AM	K305300	https://doi.org/10.6084/m9.figshare.12581765
Pseudocorduliidae	<i>Pseudocordulia circularis</i>	F	ANIC	7-010312	https://doi.org/10.6084/m9.figshare.12598643
Pseudocorduliidae	<i>Pseudocordulia circularis</i>	M	ANIC	7-010286	https://doi.org/10.6084/m9.figshare.12598643
Pseudocorduliidae	<i>Pseudocordulia elliptica</i>	F	AM	K305696	https://doi.org/10.6084/m9.figshare.12598640
Pseudocorduliidae	<i>Pseudocordulia elliptica</i>	M	AM	K305697	https://doi.org/10.6084/m9.figshare.12598640
Libellulidae	<i>Raphismia bispina</i>	M	ANIC	7-014714	https://doi.org/10.6084/m9.figshare.12598631
Isostictidae	<i>Rhadinosticta banksi</i>	F	AM	K301362	https://doi.org/10.6084/m9.figshare.12581762
Isostictidae	<i>Rhadinosticta banksi</i>	M	AM	K301361	https://doi.org/10.6084/m9.figshare.12581762
Isostictidae	<i>Rhadinosticta simplex</i>	F	AM	K301347	https://doi.org/10.6084/m9.figshare.12581756
Isostictidae	<i>Rhadinosticta simplex</i>	M	AM	K301352	https://doi.org/10.6084/m9.figshare.12581756
Chlorocyphidae	<i>Rhinocypha tinca</i>	F	AM	K403353	https://doi.org/10.6084/m9.figshare.12581747
Chlorocyphidae	<i>Rhinocypha tinca</i>	M	AM	K403352	https://doi.org/10.6084/m9.figshare.12581747
Libellulidae	<i>Rhodothemis lieftincki</i>	F	AM	K305199	https://doi.org/10.6084/m9.figshare.12598628
Libellulidae	<i>Rhodothemis lieftincki</i>	M	AM	K305200	https://doi.org/10.6084/m9.figshare.12598628
Libellulidae	<i>Rhyothemis braganza</i>	F	AM	K305192	https://doi.org/10.6084/m9.figshare.12598583
Libellulidae	<i>Rhyothemis braganza</i>	M	AM	K305191	https://doi.org/10.6084/m9.figshare.12598583

family	species	sex	Coll.	Coll.Reg.	figshare DOI for wing images
Libellulidae	<i>Rhyothemis graphiptera</i>	F	AM	K305535	https://doi.org/10.6084/m9.figshare.12598580
Libellulidae	<i>Rhyothemis graphiptera</i>	M	AM	K305183	https://doi.org/10.6084/m9.figshare.12598580
Libellulidae	<i>Rhyothemis phyllis</i>	F	AM	K305178	https://doi.org/10.6084/m9.figshare.12598577
Libellulidae	<i>Rhyothemis phyllis</i>	M	AM	K305171	https://doi.org/10.6084/m9.figshare.12598577
Libellulidae	<i>Rhyothemis princeps</i>	F	AM	K305288	https://doi.org/10.6084/m9.figshare.12598571
Libellulidae	<i>Rhyothemis princeps</i>	M	AM	K305597	https://doi.org/10.6084/m9.figshare.12598571
Libellulidae	<i>Rhyothemis resplendens</i>	F	AM	K403362	https://doi.org/10.6084/m9.figshare.12598565
Libellulidae	<i>Rhyothemis resplendens</i>	M	AM	K305278	https://doi.org/10.6084/m9.figshare.12598565
Telephlebiidae	<i>Spinaeschna tripunctata</i>	F	AM	K299327	https://doi.org/10.6084/m9.figshare.12598562
Telephlebiidae	<i>Spinaeschna tripunctata</i>	M	AM	K299322	https://doi.org/10.6084/m9.figshare.12598562
Telephlebiidae	<i>Spinaeschna watsoni</i>	F	ANIC	7-006800	https://doi.org/10.6084/m9.figshare.12598556
Telephlebiidae	<i>Spinaeschna watsoni</i>	M	ANIC	7-006799	https://doi.org/10.6084/m9.figshare.12598556
Synlestidae	<i>Synlestes selysi</i>	F	AM	K301602	https://doi.org/10.6084/m9.figshare.12581741
Synlestidae	<i>Synlestes selysi</i>	M	AM	K301601	https://doi.org/10.6084/m9.figshare.12581741
Synlestidae	<i>Synlestes tropicus</i>	F	AM	K301595	https://doi.org/10.6084/m9.figshare.12581729
Synlestidae	<i>Synlestes tropicus</i>	M	AM	K301598	https://doi.org/10.6084/m9.figshare.12581729
Synlestidae	<i>Synlestes weyersii</i>	F	AM	K301571	https://doi.org/10.6084/m9.figshare.12581702
Synlestidae	<i>Synlestes weyersii</i>	M	AM	K301561	https://doi.org/10.6084/m9.figshare.12581702
Synthemistidae	<i>Synthemistopsis gomphomacromioides</i>	F	AM	K403365	https://doi.org/10.6084/m9.figshare.12598550
Synthemistidae	<i>Synthemistopsis gomphomacromioides</i>	M	AM	K259782	https://doi.org/10.6084/m9.figshare.12598550
Synthemistidae	<i>Synthemis eustalacta</i>	F	AM	K299972	https://doi.org/10.6084/m9.figshare.12598541
Synthemistidae	<i>Synthemis eustalacta</i>	M	AM	K299962	https://doi.org/10.6084/m9.figshare.12598541
Synthemistidae	<i>Synthemis tasmanica</i>	F	AM	K299947	https://doi.org/10.6084/m9.figshare.12598538
Synthemistidae	<i>Synthemis tasmanica</i>	M	AM	K299945	https://doi.org/10.6084/m9.figshare.12598538
Coenagrionidae	<i>Teinobasis rufithorax</i>	F	AM	K286223	https://doi.org/10.6084/m9.figshare.12581684
Coenagrionidae	<i>Teinobasis rufithorax</i>	M	AM	K305297	https://doi.org/10.6084/m9.figshare.12581684
Telephlebiidae	<i>Telephlebia brevicauda</i>	F	AM	K299424	https://doi.org/10.6084/m9.figshare.12598532
Telephlebiidae	<i>Telephlebia brevicauda</i>	M	AM	K299421	https://doi.org/10.6084/m9.figshare.12598532
Telephlebiidae	<i>Telephlebia cyclops</i>	F	AM	K299417	https://doi.org/10.6084/m9.figshare.12598529
Telephlebiidae	<i>Telephlebia cyclops</i>	M	AM	K299416	https://doi.org/10.6084/m9.figshare.12598529
Telephlebiidae	<i>Telephlebia godeffroyi</i>	F	AM	K299409	https://doi.org/10.6084/m9.figshare.12598526
Telephlebiidae	<i>Telephlebia godeffroyi</i>	M	AM	K299407	https://doi.org/10.6084/m9.figshare.12598526
Telephlebiidae	<i>Telephlebia tillyardi</i>	F	AM	K299396	https://doi.org/10.6084/m9.figshare.12598520
Telephlebiidae	<i>Telephlebia tillyardi</i>	M	AM	K299401	https://doi.org/10.6084/m9.figshare.12598520
Telephlebiidae	<i>Telephlebia tryoni</i>	F	AM	K403341	https://doi.org/10.6084/m9.figshare.12598517
Telephlebiidae	<i>Telephlebia tryoni</i>	M	AM	K299386	https://doi.org/10.6084/m9.figshare.12598517
Telephlebiidae	<i>Telephlebia undia</i>	F	ANIC	7-007256	https://doi.org/10.6084/m9.figshare.12598514
Telephlebiidae	<i>Telephlebia undia</i>	M	ANIC	7-006287	https://doi.org/10.6084/m9.figshare.12598514
Libellulidae	<i>Tetrathemis irregularis</i>	F	AM	K305544	https://doi.org/10.6084/m9.figshare.12598511
Libellulidae	<i>Tetrathemis irregularis</i>	M	AM	K305275	https://doi.org/10.6084/m9.figshare.12598511
Libellulidae	<i>Tholymis tillarga</i>	F	AM	K305271	https://doi.org/10.6084/m9.figshare.12598505
Libellulidae	<i>Tholymis tillarga</i>	M	AM	K305260	https://doi.org/10.6084/m9.figshare.12598505
Synthemistidae	<i>Tonyosynthemis claviculata</i>	F	AM	K299944	https://doi.org/10.6084/m9.figshare.12598502
Synthemistidae	<i>Tonyosynthemis claviculata</i>	M	AM	K305705	https://doi.org/10.6084/m9.figshare.12598502
Synthemistidae	<i>Tonyosynthemis ofarrelli</i>	F	AM	K309683	https://doi.org/10.6084/m9.figshare.12598499
Synthemistidae	<i>Tonyosynthemis ofarrelli</i>	M	AM	K299935	https://doi.org/10.6084/m9.figshare.12598499
Libellulidae	<i>Tramea eurybia</i>	F	QM	T174436	https://doi.org/10.6084/m9.figshare.12598496
Libellulidae	<i>Tramea eurybia</i>	M	AM	K403336	https://doi.org/10.6084/m9.figshare.12598496
Libellulidae	<i>Tramea loewii</i>	F	AM	K305251	https://doi.org/10.6084/m9.figshare.12598493
Libellulidae	<i>Tramea loewii</i>	M	AM	K305254	https://doi.org/10.6084/m9.figshare.12598493
Libellulidae	<i>Tramea propinqua</i>	F	ANIC	7-013894	https://doi.org/10.6084/m9.figshare.12598490
Libellulidae	<i>Tramea propinqua</i>	M	AM	K403369	https://doi.org/10.6084/m9.figshare.12598490
Libellulidae	<i>Tramea stenoloba</i>	F	ANIC	7-013725	https://doi.org/10.6084/m9.figshare.12598484
Libellulidae	<i>Tramea stenoloba</i>	M	ANIC	7-013749	https://doi.org/10.6084/m9.figshare.12598484
Libellulidae	<i>Urothemis aliena</i>	M	AM	K305503	https://doi.org/10.6084/m9.figshare.12598481
Coenagrionidae	<i>Xanthagrion erythroneurum</i>	F	AM	K337784	https://doi.org/10.6084/m9.figshare.12581552
Coenagrionidae	<i>Xanthagrion erythroneurum</i>	M	AM	K305296	https://doi.org/10.6084/m9.figshare.12581552
Gomphidae	<i>Zephyrogomphus lateralis</i>	F	ANIC	7-005804	https://doi.org/10.6084/m9.figshare.12598478
Gomphidae	<i>Zephyrogomphus lateralis</i>	M	AM	K337646	https://doi.org/10.6084/m9.figshare.12598478
Gomphidae	<i>Zephyrogomphus longipositor</i>	F	ANIC	7-006095	https://doi.org/10.6084/m9.figshare.12598472
Libellulidae	<i>Zyxomma elgnieri</i>	F	AM	K305240	https://doi.org/10.6084/m9.figshare.12598469
Libellulidae	<i>Zyxomma elgnieri</i>	M	AM	K305241	https://doi.org/10.6084/m9.figshare.12598469
Libellulidae	<i>Zyxomma multinervorum</i>	F	AM	K403366	https://doi.org/10.6084/m9.figshare.12598460
Libellulidae	<i>Zyxomma petiolatum</i>	F	AM	K305238	https://doi.org/10.6084/m9.figshare.12598454
Libellulidae	<i>Zyxomma petiolatum</i>	M	AM	K305239	https://doi.org/10.6084/m9.figshare.12598454

Appendix 4—Library volumes

This project has created a library of five volumes: two volumes are of images of wings at a variable scale, two volumes are of images of wings at a fixed scale, and one volume is an index.

High resolution images from Volumes 3 and 4 have been downsampled and offered in the present work as an easy-to-view contact-sheet or thumbnail-series (see Appendix 1 for Anisoptera thumbnail-images, pp. 11–63; and Appendix 2 for Zygoptera thumbnail-images, pp. 64–92). Volumes 1–4 (Tann, 2020a–d) hold full sets of images which can be browsed and downloaded individually or as a complete set. The full *Index* (see Tann, 2020e, abridged in Appendix 3) is a downloadable spreadsheet with links to wing images of each individual species, a whole-of-body image of each reference specimen used, and its occurrence record on the *Atlas of Living Australia*.

Volume 1

Anisoptera wings—variable scale lengths, all wings presented at full width

Tann, John. 2020a. Wings of Australian Odonata—Volume 1. Anisoptera. *figshare*. <https://doi.org/10.6084/m9.figshare.11845230>

Volume 2

Zygoptera wings—variable scale lengths, all wings presented at full width

Tann, John. 2020b. Wings of Australian Odonata—Volume 1. Zygoptera. *figshare*. <https://doi.org/10.6084/m9.figshare.12579959>

Volume 3

Anisoptera wings—fixed scale length, all wings presented to scale

Tann, John. 2020c. Wings of Australian Odonata—Volume 3. Anisoptera fixed scale. *figshare*. <https://doi.org/10.6084/m9.figshare.12612038>

Volume 4

Zygoptera wings—fixed scale length, all wings presented to scale

Tann, John. 2020d. Wings of Australian Odonata—Volume 4. Zygoptera fixed scale. *figshare*. <https://doi.org/10.6084/m9.figshare.12612041>

Index

Tann, John. 2020e. Wings of Australian Odonata—Index. *figshare*. <https://doi.org/10.6084/m9.figshare.11840013>