

Black Mountain Symposium Background Paper No. 10
Invertebrate animals of Black Mountain, Canberra, in the Australian Capital Territory

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Abstract. Black Mountain, in the centre of Canberra, the Australian capital, rises about 300 metres above the surrounding plain now given over to the city. A 450-hectare nature reserve protects high quality native vegetation covering most of the mountain. This paper discusses some aspects of its invertebrate animal fauna, with emphasis on the insects. A checklist of approximately 2150 species in selected groups of insects, arachnids, millipedes and velvet worms recorded from Black Mountain is provided, together with a table enumerating the group totals of species, and rough estimates of the actual size of the fauna, were it to be fully known. The task of studying the fauna has been facilitated by the continuing presence of research staff of the Australian National Insect Collection at the CSIRO, close to the eastern boundary of the reserve. Nevertheless, further work is required to obtain a full picture of the mountain's invertebrate fauna, of which the arthropods are estimated to total over 5000 species.

1. Introduction

The broad, forested bulk of Black Mountain rises to 812 metres, dominating central Canberra on the surrounding plain at about 500 metres. It is one of a number of peaks of similar height rising within and around the city, most of them reserved for nature conservation and public recreation as components of Canberra Nature Park. Black Mountain Nature Reserve comprises about 450 hectares of native vegetation in predominantly good condition. The upper slopes carry a low open forest dominated by four species of *Eucalyptus* above a diverse ground layer of sparse shrubs and tussock grasses. The foot slopes of the mountain grade into a more open grassy woodland, with different eucalypt species dominant. Aspect has a significant influence on the flora: the steep southern slope is largely shaded in winter and protected from strong radiation in summer. The vegetation of the area is described in more detail by Doherty (2018) and the plants by Purdie (2018a).

With the possible exception of butterflies and dragonflies, the invertebrates lack charisma with the general public, and their bewildering diversity can make their study seem impenetrable. Their small size, often secluded habits and, in many cases, brief diurnal and annual periods of activity do not facilitate their study in the field. Even once samples are obtained, the general poor state of taxonomic knowledge of the fauna and the lack of specialist workers can further discourage study.

Nevertheless, Black Mountain's invertebrates have been relatively well surveyed, due mainly to 90 years of sampling by entomologists based at CSIRO's Australian National Insect Collection (ANIC) on the mountain's lower eastern slopes (see also Purdie 2018b). Although >5000 insect species have been reported to occur there (e.g. Heritage Week Committee 1993) this paper is the first known attempt to collate a list of invertebrates recorded from Black Mountain since collecting began. Invertebrate collections, principally the ANIC, hold considerable material yet to be fully identified, and the estimate reported above may turn out to be conservative.

2. Methods

Records of species observed or collected within the study area were obtained from the following sources:

- direct perusal of specimens held by the ANIC;
- Biolink, the ANIC in-house specimen database;
- Canberra Nature Map, a citizen science website (<https://canberra.naturemapr.org>);

- Atlas of Living Australia (ALA; <https://www.ala.org.au>) database search, April 2018, for insect species recorded within a 1 km radius of the summit of Black Mountain;
- Australian Faunal Directory (<https://biodiversity.org.au/afd/home>) database search, March 2017, for species with ‘Black Mountain’ as a type locality;
- the taxonomic and ecological literature; and
- input from colleagues with specialist knowledge of taxonomic groups.

This paper draws from a larger project documenting the insect diversity of the Australian Capital Territory (ACT). The ANIC preserves a large amount of material collected from Black Mountain and other places in the ACT, but very little of it is databased. Consequently, the chief method being used to compile lists of insects is simply to visually scan the locality labels on specimens held in the collection and record the ACT presence of taxa against a national list. Unsorted or unidentified material of ACT provenance is sorted and identified where possible. The ACT project is incomplete and ongoing: Diptera (flies), Lepidoptera (butterflies and moths) and about half of the Coleoptera (beetles) have been examined, with Hemiptera (bugs), Hymenoptera (ants, bees and wasps) and the smaller orders remaining. The bulk of the Lepidoptera species listed in this paper is the result of a re-examination of ANIC holdings using the draft ACT list.

The literature search was neither systematic nor comprehensive; a serious search of the taxonomic literature in particular would be sure to add a considerable number of records.

Many specimens sighted in the ANIC give only ‘Black Mountain’ as the place they were collected. In the absence of more precise data, it is not possible to know whether these specimens were collected inside or outside the boundary of Black Mountain Nature Reserve. For the sake of completeness, and because the distances involved are small, such species are included in the lists. However, species recorded only from the Australian National Botanic Gardens are excluded from the lists due to the possibility of their being imported with plant material from outside the study area.

3. Results and discussion

A list of species of the selected groups is presented in Appendix 1 (insects: class Insecta of phylum Arthropoda) and Appendix 2 (other invertebrates, covering spiders (order Araneae), scorpions (order Scorpiones), flat-backed millipedes (order Polydesmida), and velvet worms (phylum Onychophora)). Table 1 provides group totals, showing the arthropod fauna of Black Mountain documented here comprises approximately 2150 species, although the accompanying estimate of the true total is more than twice that magnitude.

Table 1. Invertebrate group totals recorded nationally and on Black Mountain, and estimated to occur on Black Mountain

Group	Common name	Number of species		
		Australia ¹	Black Mountain	
			Recorded ²	Estimated ³
ONYCHOPHOR				
A	velvet worms	73	1	1
ARACHNIDA				
Acari	mites, ticks	3666	0	400
Araneae	spiders	3806	42	400
Opiliones	harvest spiders	237	0	10
Pseudoscorpiones	false scorpions	193	0	10
Scorpiones	scorpions	47	3	3
CHILOPODA				
	centipedes	133	0	10

Group	Common name	Number of species		
		Australia ¹	Black Mountain	
			Recorded ²	Estimated ³
DIPLOPODA	millipedes	541	2	20
COLLEMBOLA	springtails	374	0	25
ENTOGNATHA				
Diplura	diplurans	28	0	2
Protura	proturans	32	0	2
INSECTA				
Archaeognatha	bristletails	10	1	1
Blattodea	cockroaches, termites	851	15	20
Coleoptera	beetles	24629	682	1500
Dermaptera	earwigs	90	0	6
Diptera	flies	8733	143	400
Embioptera	webspinners	26	1	2
Ephemeroptera	mayflies	119	0	1
Hemiptera	bugs, leafhoppers, scale insects	6163	80	300
Hymenoptera	sawflies, wasps, ants, bees	11984	214	1000
Lepidoptera	moths, butterflies	10854	810	1000
Mantodea	mantids	117	1	3
Mecoptera	scorpionflies, hangingflies	33	2	5
Megaloptera	alderflies, dobsonflies	26	1	1
Neuroptera	lacewings	569	5	25
Odonata	dragonflies, damselflies	326	15	18
Orthoptera	crickets, grasshoppers	1548	40	80
Phasmida	phasmids	103	2	4
Plecoptera	stoneflies	199	4	5
Psocodea	lice, barklice, psocids	857	5	50
Siphonaptera	fleas	84	0	5
Strepsiptera	strepsipterans	42	0	4
Thysanoptera	thrips	946	82	85
Trichoptera	caddisflies	851	0	3
Zoraptera	zorapterans	1	0	0
Zygentoma	silverfish	70	0	5
Total		78 361	2151	5406

¹ From Australian Faunal Directory, accessed October 2018; described species only.

² Data from this publication.

³ KR Pullen estimate.

A significant margin of error is inherent in the estimates for the major groups in the table, due to differences between the groups in sampling effort, species-level taxonomic knowledge, and the

amount of effort invested in this study. However, it is worth noting that 30 species of *Castiarina* jewel beetles, 38 species of ladybird beetles (Coccinellidae), 53 species of native bees, at least 85 species of ants (Formicidae) and no less than 160 species of ‘looper’ moths (Geometridae) are recorded from Black Mountain. A number of the listed species represent distributional ‘outliers’ on current knowledge, an example being the velvet worm *Euperipatoides rowelli* (Onycophyra), better known from wetter forests to the east. Around 21 invertebrate species recorded on Black Mountain are not native to Australia, but the majority of these are probably not resident within natural vegetation in the reserve. An exception would be the Honey Bee (*Apis mellifera*), whose ability to occupy tree hollows and rely on nectar and pollen from the native flora has meant it is now ubiquitous.



Fig 1. Native bees on Sticky Everlasting (*Xerochrysum viscosum*) (left) and a bristle fly *Rutilia* sp. on Burgan (*Kunzea ericoides*) (right). Photos: R Purdie.

Sampling of moths of the lower eastern slope of Black Mountain (or at least the phototactic ones) was substantially aided by the nightly operation of a fixed mains-powered mercury vapour light trap in bushland behind the CSIRO site for a period of about two decades in the late 1900s (see also Purdie 2018b). The device also attracted a large variety of beetles and other insects. The preparation and processing of this stream of material must have been a significant load on ANIC technical staff.



Fig. 2. Termite mounds (Order Blattodea) (left) and the Golden Orb Weaver (*Nephila edulis*) (right) are commonly seen on Black Mountain. Photos: R Purdie.

In terms of biogeographical relationships, the insect fauna of Black Mountain may be termed a South-eastern Australian Tablelands fauna. Some elements seem restricted to southern NSW, while others extend more widely north and/or south, in some cases even into Tasmania. A minor ‘inland’ component seems to infiltrate from the west. With the exception of a minority of widely distributed species (e.g. large and strong-flying Lepidoptera and Odonata), the fauna is largely distinct from that of the coastal region of NSW 100 km to the east, and also distinct from that of the higher, colder and mostly wetter mountainous parts of the western and southern ACT.

Black Mountain is significant as the type locality¹ of numerous invertebrate (principally insect) species, mainly reflecting the large number of specimens collected from the area. This study uncovered some 180 species (including 75 Diptera) described from Black Mountain, and more undoubtedly exist.

4. Using the lists

The lists provided in Appendices 1 and 2 are arranged alphabetically by order, family, genus and species; genus names are listed only once, with multiple congeners (i.e. species belonging to the same genus) separated by a semicolon. Species names are usually binomial, written as *Genus species*, but may be trinomial or quadrinomial, the latter written as *Genus (Subgenus) species subspecies*. To save space, authors’ names are not given; these can be found in other sources such as the Australian Faunal Directory.

Species known to be introduced to Australia by human agency (either intentionally or accidentally) carry an asterisk (*). A ‘[T]’ following a name indicates that the type locality of the species is Black Mountain. The abbreviation ‘sp.’, meaning species (singular), is used with a genus name to indicate that one or more species of that genus is represented in the study area, but none is identified. The abbreviation ‘nr’ (near) indicates a species similar to but apparently distinct from the name following.

5. Acknowledgements

I thank the following people who contributed species lists: Stuart Harris (Araneae); Laurence Mound (Thysanoptera); Suzi Bond (butterflies) and Michael Mulvaney (records in Canberra Nature Map). Robyn Meier kindly searched the CSIRO Biolink database for Black Mountain records. Anthony Whalen organised the extraction of information on invertebrate type specimens from the Australian Faunal Index database.

I am especially indebted to Adrienne Nicholson who single-handedly over a period of months reduced a draft list of over 2000 species of ACT Lepidoptera to the Black Mountain list presented here, then produced the expanded grasshopper list.

I am grateful to CSIRO for providing me with an Honorary Fellowship to prepare a catalogue of ACT insect species, and to Rosemary Purdie who invited me to contribute to the Black Mountain Symposium.

6. References

- Doherty, MD (2018) Vegetation types and vegetation dynamics on Black Mountain. Black Mountain Symposium 2018 Background Paper No. 3.
- Heritage Week Committee (1993) Hills of Canberra – people and place. Heritage ACT, pages 42–55.
- Purdie, RW (2018a) Vascular plants of Black Mountain, 1969–2017. Black Mountain Symposium 2018 Background Paper No. 5.
- Purdie, RW (2018b) Scientific collecting, monitoring and research on Black Mountain. Black Mountain Symposium 2018 Background Paper No. 16.

¹ A ‘type’ in this context is the original specimen on which the official naming and description of a species new to science is based; the place where that specimen was found is the ‘type locality’ of the species.

Appendix 1

Invertebrates recorded from Black Mountain: Class Insecta (insects)

ORDER ARCHAEOGNATHA (BRISTLETAILS)

Meinertellidae

Machiloides sp.

ORDER BLATTODEA (COCKROACHES, TERMITES)

Blaberidae

Laxta granicollis

Panesthia australis

Blattidae

Melanozosteria capitolina [T]

Ectobiidae

Ellipsidion australe

Johnrehnia solida [T]

Robshelfordia biramustyla [T]

Kalotermitidae

Bifiditermes improbus

Ceratkalotermes spoliator

Glyptotermes eucalypti

Neotermes insularis

Rhinotermitidae

Coptotermes frenchi

Termitidae

Amitermes neogermanus; xylophagus [T]

Nasutitermes dixoni; exitiosus

ORDER COLEOPTERA (BEETLES, WEEVILS)

Acanthocnemidae

Acanthocenemis nigricans

Aderidae

Syzenonellus alpicola

Anthicidae

Anthicus scydmaenideus

Lemodes coccinea

Trichananca sp.

Anthribidae

Araecerus palmaris

Taburnus neglectus

Archeocrypticidae

Enneboeus fossoris

Gondwanenneboeus minutissimus

Belidae

Rhinotia filiformis; suturalis

Biphyllidae

Diplocoelus angustulus; dilataticollis

Bostrichidae

Bostrychopsis jesuita

Lyctodon bostrychooides

Lyctus brunneus; parallelocollis

Mesoxylion collaris; cylindricus

Minthea acanthacollis

Trogoxylon ypsilon

Xylobosca canina

Xylodeleis obispa

Xylotillus lindi

Bothrideridae

Deretaphrus erichsoni; ignarus; piceus; viduatus

Brentidae

Cordus sp.

Perapion antiquum

Buprestidae

Agrilus hypoleucus

Anilara angusta; anthaxoides?; obscura?

Castiarina australasiae; balteata; commixta;

crenata; decemmaculata; deyrollei;

erythroptera; hilaris; hoffmannseggii;

humilis; ignota; indistincta; kerremansi;

klugi; mustelamajor; nasuta; ochreiventris;

octomaculata; octospilota; producta;

rufipennis; scalaris; sexplagiata; skusei;

subpura; subvicina; testacea; thomsoni;

vicina; xystra [T]

Diphucrania acuducta; gibbera; heroni; kohouti;

leucosticta; marmorata; patricia; pulleni

Ethonion fissiceps; reichei

Helperella frenchi

Hypocisseis suturalis

Meliboeithon bicostatum

Melobasis nr fulgurans; nervosa; nitidiventris;

propinqua; purpurascens?

Nascio vetusta

Nasciooides parryi

Neocuris coeruleans; gracilis

Pseudanilara purpureicollis

Selagis aurifera

Temognatha limbata; thoracica

Cantharidae

Chauliognathus lugubris; tricolor

Heteromastix sp.

Carabidae

Adelotopus dytiscides; montisatri [T];

nemosomoides

Agonocheila antipodum; biguttata; cribripennis;

fenestrata

Anomotarus (Anomotarus) minor; moorei [T];

unimaculatus; variegatus obscuripennis

Anomotarus (Lithostrotus) caerulescens

Arthropiterus sp.

Cainogenion (Cainogenion) ipsooides ipsooides
Cainogenion (Procainogenion) ephippiatum
Carenum laevigatum
Clivina (Clivina) quadratifrons
Craspedophorus australasiae
Demetrida suturata
Euthenarus bicolor [T]
Laccopterum foveigerum
Microlestodes (Cyclolestodes) ovatus [T]
Philophlaeus australis
Pseudagonica minuta elongata [T]
Sarothrocrepis civica; humerata
Scopodes boops; sexpunctus sexpunctus;
 sigillatus
Setodyschirius wilsoni
Sphallomorpha costalis; guttigera;
 hydroporoides; maculata; nitiduloides;
 rhomboidalis; ruficollis [T]
Trigonothops (Trigonothops) flavofasciata

Cerambycidae

Adrium artifex
Aesiolyche favosa
Ancita australis
Atesta chiangi [T]; *ibidionoides; latifasciata;*
 stigmosa; thorntoni
Bethelium signiferum
Brachytria erosa
Coleocoptus senio
Coptocercus pedator; pubescens; robustus;
 rubripes
Distichocera macleayi
Ectosticta cleroides
Epithora dorsalis
Eroschema poweri
Eurnassia australis
Hesthesis sp.
Macrones exilis
Neostenus saundersi
Oroderes humeralis; mimulus
Pachydissus sp.
Paratesta chiangi; dorsalis
Phacodes obscurus; personatus
Phoracantha acanthocera; alternata; concolor
 flavopicta; mastersi; obscura; porosa;
 punctata; recurva; semipunctata; synonym
 tricuspidis
Rhytiphora sp.
Scleocantha glabricollis
Syllitus sp.
Tessaroma undatum
Tropis lepturoides; roei; rubea
Uracanthus triangularis
Xystrocera virescens
Zoedia divisa

Chrysomelidae

Acanthoscelides obtectus
Altica corrusca
Aporocera (Aporocera) lugubris
Aulacophora hilaris

Cadmus (Cadmus) litigiosus
Callidemum hypochalceum
Callosobruchus maculatus
Calomela curtisi; juncta; maculicollis; parilis;
vittata
*Chrysolina hyperici**
Dicranosterna immaculata
Eurispa howitti; simplex
Longitarsus victoriensis
Neodiaphanops sp.
Oulema medioplagiata
Paropsis aspera; atomaria
Paropsisterna beata; intacta; irina
Semelvillea waraganjae

Ciidae

Cis canberraе [T]; eremicus [T]; fuscipes;
setiferus
Glyphidope variabilis
Malleecis flavus

Cleridae

Blaesiophthalmus accinctus
Crobenia irwini [T]
Cylidrus basalis; nigrinus
Eleale aspera; pulchra; simplex
Eunatalis flavopilosa; mastersii; planipennis;
porcata; spadicea; spinicornis
Lemidea australiae; cicatricosa; concinna;
exilis; hilaris; nitens; simulans; spinipennis;
subaenea
Necrobia ruficollis; rufipes
Phlogistus chrysurus; corallipes; eremita;
modestus
Scrobiger idoneus; splendidus
Stigmatum acerbum; gilberti; victoriae
Tarsostenodes guttulus
Tarsostenus carus; hilaris; univittatus
Tenerus abbreviatus
Trogodendron fasciculatum; mirabile
Zenithicola crassus

Coccinellidae

Bucolellus sp.
Bucolus frater; idyleae
Cleobora mellyi
Coccinella (Coccinella) transversalis
Cryptolaemus montrouzieri
Diomus capital; frater; impictus; notescens;
planulatus; sphragitis; sydneyensis
Harmonia conformis
Micraspis frenata
Orcus australasiae; bilunulatus
Rhyzobius cyaneus; discolor; forestieri; gordoni;
hirtellus; lophanthi; nitidus; pulchellus;
noctuabundus; umbratus; waterhousei;
ventralis
Rodatus bakewelli; boucardi; chaetonotus
Rodolia cardinalis
Scymnus blackburni; bunya; queenslandicus
Telsimia obscuripes
Violetta elongatula

Corylophidae	<i>Rangsia macleayi</i>
<i>Orthoperus</i> sp.	
<i>Sericoderus</i> sp.	
Cryptophagidae	
<i>Anchicera</i> sp.	
<i>Chilatomaria</i> sp.	
<i>Cryptophagus cellaris</i> *	
Cucujidae	
<i>Platisus angusticollis; integricollis</i>	
Curculionidae	
<i>Amycterus elongatus</i>	
<i>Chrysolopus spectabilis</i>	
<i>Titinia tenuis</i>	
Dermestidae	
<i>Anthrenocerus confertus; intricatus</i> [T]; <i>piliatus</i> [T]; <i>stigmatophilus</i>	
<i>Anthrenus (Nathrenus) verbasci</i>	
<i>Dermestes ater</i>	
<i>Reesa vespulae</i>	
<i>Trogoderma apicale; froggatti</i>	
Dytiscidae	
<i>Allodessus bistrigatus</i>	
<i>Antiporus femoralis; gilbertii; interrogationis</i>	
<i>Chostonectes nebulosus</i>	
<i>Copelatus australiae</i>	
<i>Hydaticus parallelus</i>	
<i>Lancetes lanceolatus</i>	
<i>Liodesmus shuckhardii</i>	
<i>Megaporus hamatus; howitti</i>	
<i>Necterosoma penicillatum; undecimlineatum</i>	
<i>Onychohydrus scutellaris</i>	
<i>Platynectes bakewelli; decempunctatus; octodecimmaculatus</i>	
<i>Rhantus suturalis</i>	
Elateridae	
<i>Agrypnus caliginosus; divaricatus; duplex; humilis; mamillatus; marginipennis; pictipennis; variabilis</i>	
<i>Anchastus</i> sp.	
<i>Anilicus attenuatus; parvus; xanthomus</i>	
<i>Arachnodima xenikon</i>	
<i>Conoderus alternatus; aphiloides; bruckii; submarmoratus; tabidus</i>	
<i>Crepidomenus decoratus; fulgidus</i>	
<i>Drymelater australis</i>	
<i>Glypheus nigrinus</i>	
<i>Hapatesus (Hapatesus) hirtus</i>	
<i>Lingana illita</i>	
<i>Litotelater divaricatus</i>	
<i>Megapenthes automolus</i>	
<i>Melanoxanthus futilis</i>	
<i>Ophidius elegans</i>	
<i>Paracalais funereus</i>	
<i>Paracardiophorus assimilis</i> [T]; <i>consputus; dimidiatus</i>	
<i>Pseudaeolus bimaculatus</i>	
<i>Pseudotetralobus australasiae</i>	
Endomychidae	
<i>Holoparamecus castaneus; caularus</i>	
<i>Idiophyes brevis</i>	
Erotylidae	
<i>Cnecosa insueta</i>	
<i>Cryptophilus integer</i>	
<i>Leucohimatum arundinaceum</i>	
<i>Thallis australiae; bifasciata; compta; janthina; vinula</i>	
Eucnemidae	
<i>Dromaeolus</i> sp.	
<i>Dyscharachthis minutus</i>	
<i>Euryptychus concolor; porosus</i>	
Geotrupidae	
<i>Australobolbus gayndahensis</i>	
<i>Elephastomus gellarus; meraldus</i> [T]	
Heteroceridae	
<i>Heterocerus flindersi</i>	
Histeridae	
<i>Chlamydopsis ectatommae; inaequalis; lawrencei</i> [T]; <i>pygidialis; reticulata</i>	
<i>Pheidoliphila</i> sp.	
<i>Saprinus pseudocyanus</i>	
Hydrophilidae	
<i>Berosus approximans; australiae; involutus; majusculus; nutans; veronicae</i>	
<i>Chaetarthria nigerrimus</i>	
<i>Enochrus elongatus; maculiceps; samae</i>	
<i>Helochares (Hydrobaticus) percyi; tristis</i>	
<i>Hydrochus australis; granicollis; obsoletus</i>	
<i>Hydrophilus albipes; brevispina; latipalpus</i>	
<i>Laccobius decipiens</i>	
<i>Limnoxenus zealandicus</i>	
<i>Paracymus pygmaeus; spenceri</i>	
<i>Sternolophus marginicollis</i>	
Laemophloeidae	
<i>Cryptolestes</i> sp.	
<i>Placonotus</i> sp.	
Latridiidae	
<i>Aridius bifasciatus; minutus; nodifer; semicostatus</i>	
<i>Corticaria elongata; ferruginea; japonica; lindensis; ovalipennis</i>	
<i>Cortinicara cuspidata; hirtalis; laticollis; luzonica</i>	
<i>Metophthalmus</i> sp.	
Leiodidae	
<i>Myrmecholeva acutifrons</i>	
Lucanidae	
<i>Figulus trilobus</i>	
<i>Lamprima aurata</i>	
Lycidae	
<i>Calochromus</i> sp.	

<i>Porrostoma rhipidium</i>	<i>Mezium affine*</i> ; <i>americanum</i> *
Lymexylidae	<i>Ptinus clavipes*</i> ; <i>exulans</i>
<i>Australimexylon fuscipennis</i>	<i>Stageatomorphus</i> sp.
<i>Atractocerus kreuslerae</i>	
Melandryidae	Rhipiceridae
<i>Talayra elongata</i>	<i>Rhipicera femorata</i>
Meloidae	Ripiphoridae
<i>Palaestra foveicollis</i>	<i>Euctenia</i> sp.
Melyridae	<i>Macrosiagon difficile</i> ; <i>novaehollandiae</i> ;
<i>Dicranolaius bellulus</i> ; <i>villosus</i>	<i>rufofasciatum</i> ; nr <i>tricolor</i>
<i>Helcogaster</i> nr <i>gagatinus</i>	<i>Neonephrites partiniger</i>
<i>Balanophorus brevipennis</i>	<i>Ptilophorus gerstaeckeri</i> ; <i>persimilis</i>
<i>Hypattalus abdominalis</i>	<i>Rhipidioides</i> sp.
Mordellidae	Scarabaeidae
<i>Hoshihananomia dumbrelli</i> ; <i>leucosticta</i> ;	<i>Acrossidius tasmaniae</i>
<i>multiguttata</i>	<i>Adoryphorus coulonii</i>
<i>Mordella limbata</i> ; <i>promiscua</i> ; <i>v-fasciata</i> ;	<i>Anomalomorpha giveni</i>
<i>wiburdi</i>	<i>Anoplognathus chloropyrus</i> ; <i>hirsutus</i> ; <i>montanus</i> ;
<i>Paramordellistena exilis</i>	<i>pallidicollis</i> ; <i>pindarus</i> [T]; <i>porosus</i> ;
<i>Tomoxioda aterrima</i>	<i>suturalis</i> ; <i>velutinus</i> ; <i>viriditarsis</i>
<i>Zeamordella monacha</i>	<i>Antitrogus morbillosus</i>
Mycetophagidae	<i>Automolius vulgaris</i>
<i>Litargops intricatus</i>	<i>Bisallardiana gymnopleura</i>
<i>Litargus balteatus</i> *	<i>Chlorobapta bestii</i> ; <i>frontalis</i>
<i>Typhaea stercorea</i> *	<i>Chondropyga dorsalis</i>
Myrabolidae	<i>Clithria eucnemis</i>
<i>Myrabolia brevicollis</i> ; <i>grouvelliana</i> ; <i>lawrencei</i>	<i>Cryptodus caviceps</i> ; <i>paradoxus</i> ; <i>tasmaniensis</i>
Nitidulidae	<i>Dasygnathus trituberculatus</i>
<i>Amlearcha elegantior</i> ; <i>obscurior</i>	<i>Eupoecila australasiae</i>
<i>Australaethina pilistriata</i>	<i>Frenchella hirticollis</i>
<i>Brachypeplus basalis</i> ; <i>binotatus</i>	<i>Gnaphalopoda carnei</i> [T]
<i>Carpophilus aterrimus</i> ; <i>hemipterus</i> *;	<i>Heteronyx aequaliceps</i> ; <i>aphodiooides</i> ; <i>australis</i> ;
<i>luridipennis</i>	<i>chlorotica</i> ; <i>constans</i> ; <i>excisus</i> ; <i>glabrata</i> ;
<i>Cryptaracha australis</i> ; <i>laevigata</i> ; <i>subnitida</i>	<i>granum</i> ; <i>major</i> ; <i>oblongus</i> ; <i>ovatus</i> ; <i>piceus</i> ;
<i>Cychramptodes murrayi</i>	<i>pilosellus</i> ; <i>praecox</i> ; <i>puncticollis</i> ; <i>relictus</i> ;
<i>Epuraea californica</i> ; <i>meyricki</i> ; <i>sparsior</i> ; <i>sloanei</i>	<i>rugosipennis</i> ; <i>simius</i> ; <i>sloanei</i> ;
<i>Macleayana vesca</i>	<i>Liparetrus pectinatus</i> [T]
<i>Rixerodes cornutulus</i>	<i>Maechidius brevis</i> ; <i>corrosus</i> ; <i>latus</i> ; <i>longitarsus</i> ;
<i>Thalycrodes australe</i> ; <i>cylindricum</i> ; <i>mixtum</i> ;	<i>sordidus</i> ; <i>variolosus</i>
<i>pulchrum</i>	<i>Microvalgus</i> spp.
<i>Urophorus humeralis</i> *	<i>Neorrhina punctata</i>
Phalacridae	<i>Onthophagus anchommatus</i> ; <i>australis</i> ; <i>declivis</i> ;
<i>Austroporus</i> sp.	<i>dunningi</i> ; <i>granulatus</i> ; <i>pexus</i> ; <i>squalidus</i>
<i>Litochrus major</i>	<i>Ophryox hispida</i>
<i>Plalacrus</i> sp.	<i>Phyllotocus macleayi</i> ; <i>rufipennis</i>
Ptinidae	<i>Repsimus aeneus</i>
<i>Calymmaderus</i> sp.	<i>Rhopaea decipiens</i>
<i>Deltocrypta</i> sp.	<i>Scitala aureorufa</i> ; <i>rorida</i> ; <i>sericans</i>
<i>Diplocotes familiaris</i>	<i>Semanopterus subcostatus</i>
<i>Dorcatoma</i> sp.	<i>Sericesthis consanguinea</i> ; <i>geminata</i> ; <i>ignota</i> ;
<i>Dryophilodes</i> sp.	<i>micans</i> ; <i>nigrolineata</i> ; <i>parallela</i>
<i>Ernobius mollis</i> *	<i>Telura alta</i> ; <i>petiolata</i> [T]
<i>Hadrobregmus australiensis</i>	<i>Trichaulax philipsii</i>
<i>Lasioderma serricorne</i> *	
<i>Methemus</i> sp.	Scirtidae
	<i>Astrocyphon aculeatus</i> [T]
	<i>Nanocyphon australicus</i> [T]
	<i>Nothocyphon ypsilon</i> [T]
	<i>Peneveronatus actensis</i> [T]
	<i>Prionocyphon uncatus</i> [T]

Silphidae	<i>Notocerastes blackburni</i>
<i>Ptomaphila lacrymosa</i>	<i>Ulodes hispidus</i>
Silvanidae	Zopheridae
<i>Australodendrophagus australis</i>	<i>Orthocerodes australis</i>
<i>Austronausibius leai</i>	
<i>Cryptamorpha blackburni; delicatula; victoriae</i>	
<i>Macrohyliota lucius; militaris</i>	
<i>Oryzaephilus surinamensis*</i>	
Sphindidae	ORDER DIPTERA (FLIES)
<i>Aspidiphorus globosus</i>	
Staphylinidae	Agromyzidae
<i>Leptostibina blackmontis [T]</i>	<i>Liriomyza cassiniae [T]; impolita [T]</i>
<i>Nasutiphilus flavus [T]; niger [T]</i>	<i>Phytobia optabilis [T]</i>
<i>Neohypnus andinus</i>	
<i>Thyreoccephalus cyanopterus; orthodoxus; rufitarsis</i>	
<i>Xanthophius luridipennis</i>	
Tenebrionidae	Apioceridae
<i>Adelium angulicolle; brevicorne; licinoides; orphana; porcatum; pustulosum</i>	<i>Apiocera similis [T]</i>
<i>Amarygmus aeger</i>	
<i>Atoichus bicolor</i>	
<i>Celibe striatipennis</i>	Asilidae
<i>Chalcopterooides columbinus; cupripennis; spectabilis</i>	<i>Neoaratus abludo</i>
<i>Cillibus incisus</i>	
<i>Cyphaleus metallescens</i>	Bibionidae
<i>Ecnolagria grandis</i>	<i>Dilophus tetrasculus [T]</i>
<i>Helea ovata</i>	
<i>Homotrysis cisteloides; laticollis; limbata; lugubris</i>	Bombyliidae
<i>Lepturidea fastigiata; fusca; opacicollis; pulchra; punctulaticollis; unicolor; viridis</i>	<i>Balaena abscondita; latelimbata</i>
<i>Meneristes australis</i>	<i>Comptosia stria</i>
<i>Metistete gibbicollis; pimelioides; subsulcata</i>	
<i>Metriolagria formicicola</i>	Calliphoridae
<i>Nyctozoilus deyrollei</i>	<i>Calliphora augur; stygia</i>
<i>Phanechloros punctipennis</i>	
<i>Platyphanes pilosus</i>	Cecidomyiidae
<i>Prophanes simplex</i>	<i>Trichotoca fraterna [T]</i>
<i>Pterohelaeus granuliger; guerini; hirtus; oblongus; piceus; planus; socialis; striatopunctatus</i>	
<i>Saragus marginellus</i>	Ceratopogonidae
<i>Tanychilus sp.</i>	<i>Allohelea harpagonifera [T]</i>
<i>Titaena columbina</i>	<i>Culicoides sigmoidus [T]</i>
<i>Toxicum insigne</i>	<i>Forcipomyia (Lepidohelea) bullata [T]; parvicerater [T]</i>
<i>Uloma planimentoides; sanguinipes</i>	<i>Forcipomyia (Metaforcipomyia) colona [T]</i>
<i>Uломoidес heroni; tetraspilotus</i>	<i>Forcipomyia (Pedilohelea) proavia [T]</i>
<i>Yarranum crenicolle</i>	<i>Lanatomyia miles [T]</i>
	<i>Leptoconops (Leptoconops) riverinaensis [T]</i>
Trogossitidae	
<i>Ancyrona vesca</i>	Chamaemyiidae
<i>Leperina lacera</i>	<i>Leucochthiphila photophila [T]</i>
<i>Peltonyxa invalida</i>	<i>Pseudoleucopis benefica [T]; nigromontana [T]; trichaeta [T]</i>
Ulodidae	
<i>Dipsaconia pyritosa</i>	Chironomidae
<i>Meryx aequalis</i>	<i>Cricotopus annuliventris</i>
	<i>Riethia zelandica</i>
	<i>Tanytarsus bispinosus; commoni [T]</i>
	Chloropidae
	<i>Gaurax sabroskyi [T]</i>
	<i>Lipara australis [T]</i>
	<i>Tricimba lata [T]</i>
	Culicidae
	<i>Aedes alboannulatus</i>
	Dolichopodidae
	<i>Amblypsilopus montanorum; triscuticatus</i>
	<i>Austrosciapus actensis [T]</i>
	<i>Mesorhaga canberrensis [T]</i>
	<i>Nothorhaphium aemulans</i>
	<i>Parentia dispar; nigropilosa</i>
	<i>Sympycnus (Sympycnus) claudicans [T]</i>

- Systemus australis* [T]
Thrypticus australis [T]
- Empididae**
Anaclastocedon prionton [T]
- Fanniidae**
Fannia capitalis [T]
- Fergusoninidae**
Fergusonina atricornis; carteri; curriei; frenchi; nicholsoni
- Heteromyzidae**
Diplogeomyza conformis [T]
Zentula vittata [T]
- Lauxaniidae**
Homoneura eurymelon; fuscicornis; stricta
Trypetisoma vulgare
- Limoniidae**
Geranomyia sp.
Molophilus (Austromolophilus) warriuka [T]
- Muscidae**
Atherigona alpha [T]; *collessi* [T]
Musca vetustissima
- Pipunculidae**
Clistoabdominalis colophus
Eudorylas australinus [T]; *cernuus* [T]
- Platypezidae**
Lindneromyia austraquila [T]
- Platystomatidae**
Duomyia capitalis [T]; *personata* [T]
- Psychodidae**
Psychodocha squamipleuris [T]
- Pyrgotidae**
Adapsona commoni [T]
Cardiacera nigrescens [T]
Facilina commoni [T]; *tertia* [T]
Frontalia noctua [T]; *tonnoiri* [T]
Osa commoni [T]; *simplex* [T]; *sinclairae* [T]
- Scatopsidae**
Colobostema bihastatum [T]; *diversum* *diversum* [T]; *retusum* [T]; *rhamphe*
Diamphidicus australis [T]
Reichertella digitata [T]
- Scenopinidae**
Paratrichia lobosa [T]
- Sphaeroceridae**
Howickia subsinuata [T]
Pseudocollinella difficilis [T]
- Stratiomyidae**
Exaireta spinigera
- Syrphidae**
Melangyna (Austrosyrphus) collatus; sellenyi
- Tabanidae**
- Scaptia patula*
- Tachinidae**
Anagonia commoni [T]; *lasiophthalma* [T];
minor [T]; *norrisi* [T]; *zentae* [T]
Austronilea livida [T]
Carcelia (Euryklea) flavitibia [T]
Chetogaster canberraee [T]
Geraldia biseta [T]
Microtropespa canberraee [T]; *sinuata*
Rutilia sp.
- Tephritidae**
Austrotephritis pelia; poenia; pumila
Ceratitella loranthi
Dioxyna conflicta
Euaresta aequalis
Hyalopeza schneiderae
Oedaspis apicalis
Parahyalozea pantosticta [T]
Paraspalulina apicomacula [T]
Spathulina acroleuca
Sphenella ruficeps
Trupanea glauca
- Therevidae**
Acupalpa albifarsa
Agapophytus antheliogynaion [T]; *aterrimus*;
australasiae; *chrysosisyrus* [T];
dioctriafornmis; *galbicaudus*; *ruficaudus*
Anabarhynchus danielsi; *decipiens*; *helvenacus*;
hyalipennis; *niveus*; *plumbeoides* [T];
plumbeus; *projectus*; *tristis*
Bonjeania angelikae; *clamosis*; *flavofemoralis*;
nitidifrons
Laxotela gaimarii [T]
Nanexila manni
Neodialineura nitens
- Tipulidae**
Leptotarsus (Leptotarsus) clavatus; macquartii
flavolateralis [T]
- Trichoceridae**
Nothotrichocera cranstoni [T]
- ORDER EMBIOPTERA (WEBSPINNERS)**
- Australembiidae**
Metoligotoma ingens [T]
- ORDER HEMIPTERA (BUGS)**
- Acanthosomatidae**
Eupolemus marginatus
- Aleyrodidae**
Dumbletoniella callistemoni [T]
- Aphididae**
*Aulacorthum (Aulacorthum) solani**
*Brachycaudus (Brachycaudus) helichrysi**
*Capitophorus elaeagni**; *hippophae**

*Lipaphis pseudobrassicae**
*Macrosiphum (Macrosiphum) rosae**
Toxoptera citricida

Cicadellidae

Macroceps sp.
Putoniessa sp.
Rhotidoides sp.
Rosopaella aldutra; crofta; evansi [T]; *geoffroyi; leurensis; lopada; magnata* [T]; *nr napais; nigroflava; praeda* [T]; *swani*

Rubria brevifrons
Trocnada minuta

Cicadidae

Galanga labeculata
Psaltoda moerens
Yoyetta nr denisoni

Cixiidae

Chidaea dayi [T]
Ronaldia fennahi [T]

Clastopteridae

Chaetophyes compacta

Coccidae

Coccus hesperidum
Parthenolecanium persicae
Pulvinaria psidii

Eriococcidae

Eriococcus confusus; coriaceus
Lobimargo donaldsoni [T]

Geocoridae

Stylogeocoris biroi

Lygaeidae

Nysius vinator
Spilostethus pacificus

Miridae

Austrocapsus antennatus
Creontiades dilutus

Nepidae

Laccotrephes (Laccotrephes) tristis

Notonectidae

Anisops doris

Pentatomidae

Agonoscelis rutila
Commius elegans
Cuspicona privata
Dictyotus caenosus
Menida plebeia
Nezara viridula
Ocirrhoe dallasi
Oncocoris apicalis
Piezodorus oceanicus

Pseudococcidae

Australicoccus grevilleae
Nipaecoccus exocarpi

Planococcus citri; minor
Pseudococcus longispinus

Psyllidae

Acizzia pendulae [T]
Cardiaspina albiflora
Creis lituratus
Cryptoneossa triangula
Glycaspis brimblecombei; immaceria [T]
Hyalinaspis nigricamera [T]; *pallidinota* [T];
semispherula [T]; *vitreipelta* [T]

Reduviidae

Aradelloides wilsoni
Gminatus australis
Leistarches serripes
Ptilocnemus pallidus

Rhyparochromidae

Lamproceps australis
Porander scudderii

Scutelleridae

Choerocoris paganus
Scutiphora pedicellata

Tingidae

Australocader kerzhneri [T]

Trioziidae

Schedotrioza eucaalypti

ORDER HYMENOPTERA (ANTS, BEES, WASPS)

Apidae

Amegilla (Zonamegilla) asserta
*Apis mellifera**
Exoneura (Exoneura) sp.

Bethylidae

Eupsenella baada; barada; bilingara; ceciliae; diemenensis; insulana; jaburara

Braconidae

Amyosoma rufescens [T]
Chelonus fischeri [T]
Choeras dissors [T]
Diolcogaster adiastola [T]
Jarra phoracantha [T]
Phanerotomella obscura [T]
Pirramurra tuberculata
Pseudosyngaster annulicornis
Simplicibracon nigritarsus [T]

Colletidae

Euryglossa depressa
Gonioctenes subdolus
Hylaeus (Euprosopis) elegans
Hylaeus (Planihylaeus) daviesiae [T];
probligenatus [T]; *quadriceps*
Hylaeus (Prosopisteron) sp.
Hyleoides concinna
Hyphesma atromicans; federalis [T]

- Leioproctus* (*Leioproctus*) *amabilis*; *clarki*;
plumosus; *versicolor*
Trichocolletes nigroclypeatus; *venustus*
- Crabronidae**
Rhopalum grahami [T]
Trypoxylon schmiedeknechti connexum
- Dryinidae**
Bocchopsis australis [T]
- Embolemidae**
Ampulicomorpha australis [T]
- Eulophidae**
Goetheana rabelaisi [T]
- Eurytomidae**
Austrophotismus daicles
- Formicidae**
Acropyga myops; *pallida*
Amblyopone longidens; *michaelseni*
Anonychomyrma sp.
Aphaenogaster longiceps
Arnoldius sp.
Austumorium flavigaster
Camponotus aeneopilosus; *consobrinus*; *evae*
zeuxis; *gasseri*; *intrepidus*; *lownei*; *nigriceps*;
nigroaeneus; *suffusus*
Cardiocondyla nuda
Cerapachys sp.
Crematogaster sp.
Doleromyrma darwiniana
Dolichoderus scabridus
Eopostruma natalae; *quadrispinosa*; *wardi*
Heteroponera sp.
Iridomyrmex bicknelli; *calvus*; *chasei*; *discors*;
infuscus [T]; *mayri*; *mjobergi*; *obscurior*;
pureus; *rufoniger*; *sucheroides*; *suchieri*;
victorianus
Mayriella ebbrei
Melophorus sp.
Meranoplus sp.
Mesostruma bella; *exolympica*
Monomorium fieldi; *kilianii*; *leae*; *rothsteini*;
sordidum; *sydneyense*; *tambourinense*
Myrmecia forceps; *fulvipes*; *gulosa*; *nigriceps*;
picta; *piliventris*; *pilosula*; *pyriformis*;
simillima; *tepperi*
Myrmecorhynchus emeryi
Notoncus hickmani
Nylanderia rosae
Ochetellus sp.
Orectognathus clarki
Papyrius sp.
Paraparatrechina minutula
Pheidole sp.
Plagiolepis sp.
Platythyrea turneri
Podomyrma gratiosa
Polyrhachis ammon; *leae*; *phryne*; *schwiedlandi*
Ponera leae
- Prolasius* sp.
Pseudonotoncus sp.
Rhytidoponera metallica; *tasmaniensis*; *victoriae*
Solenopsis sp.
Sphinctomyrmex sp.
Stigmacros barretti
Strumigenys sp.
Tapinoma sp.
Technomyrmex sp.
Tetramorium sp.
- Gasteruptiidae**
Pseudofoenus iqbalii [T]
- Halictidae**
Homalictus (*Homalictus*) *punctatus*;
sphecodoides; *urbanus*
Lasioglossum (*Australictus*) *peraustrale*
Lasioglossum (*Chilalictus*) *bicingulatum*;
brunnesetum; *calophyliae*; *clelandi*;
cognatum; *erythrurum*; *gilesi*;
hemichalceum; *humei*; *instabilis*; *lanarium*;
littleri; *opacicolle*; *orbatum*; *platycephalum*;
pulvitectum; *repraesentans*; *victoriellum*;
vitripenne; *willsi*
Lasioglossum (*Parasphecodes*) *hiltacum*;
lacthium; *subrussatum*; *sulthicum*;
tribuarium
Lipotriches (*Austronomia*) nr *flavoviridis*
- Ichneumonidae**
Akymichneumon rufipes
Asmenophylax sp.
Australochus clypeator [T]
Casinaria hesperiophaga [T]
Enicospilus skeltonii; *sausi*
Eucaphila vulgaris
Junctivena gallowayi
Lycorina canberra [T]
Megaceria pagana
Nebostenus terebratus [T]
Neolophron canberra [T]
Orthocentrus trichomma
Sciron fundator
Xylostenus curtus [T]
- Megachilidae**
Megachile (*Eutricharaea*) *maculariformis*;
serricauda
Megachile (*Hackeriapis*) *oblonga*; *tosticauda*
Megachile [unplaced] *lucidiventris*
- Monomachidae**
Monomachus antipodalis
- Mymaridae**
Boccaciomyrmecameron [T]
- Peradeniidae**
Peradenia micranepsia [T]
- Pompilidae**
Ctenostegus binghi; *chicha*; *murrumbidgee*;
ouyen

- Idiaporina canberra* [T]
Psoropempula nulgarra [T]; *puna* [T]
- Scelionidae**
Embidobia australica [T]; *metoligotomae* [T]
Mirobaeoides ater; *scutellaris*
Scelio asperatus; *chortoicetes*; *edeowie*;
improcerus; *orientalis*; *parvicornis*;
striatifacies; *unidentis* [T]
- Trissolcus egeria*; *oedipus*; *oeneus*; *ogyges*
- Stephanidae**
Parastephanellus isoglyptos
- Torymidae**
Megastigmus quinquesetae [T]
- Vespidae**
Polistes (Polistella) humilis
*Vespula germanica**
- ORDER LEPIDOPTERA (BUTTERFLIES, MOTHS)**
- Anthelidae**
Anthela ferruginosa; *nicothoe*; *ocellata*; *varia*
Chelepteryx collesi
Chenuala heliaspis
Nataxa flavescentia
Pterolocera sp.
- Batrachedridae**
Batrachedra arenosella
- Blastodacnidae**
Microcolona sp.
- Bucculatricidae**
Bucculatrix sp.
Ogmograptis barloworum [T]; *maxdayi* [T];
paucidentatus [T]; *racemosa*
- Carposinidae**
Bondia nigella
Carposina latebrosa; *loxolopha*; *mediella*;
petraea
Coscinoptycha improbana
Paramorpha aquilana; *rhachias*
Sosineura mimica
- Choreutidae**
Tebenna micalis
- Coleophoridae**
Coleophora albiradiata [T]
- Cosmopterigidae**
Labdia sp.
Leptozeugis sp.
Limnaecia camptosema; *charactis*; *chionospila*;
cirrhozona; *isozona*; *scoliosema*
Macrobatra alternatella; *anacampta*;
ceraunobola; *chrysotoxa*; *constrictella*;
desmotoma; *hamaxitodes*; *heminephela*;
- isoscelana*; *leucopeda*; *myriophthalma*;
platychroa; *xuthocoma*
'Oecophora' hypochalca
Pyroderces sp.
Stigmatophora argyrostrepta
- Cossidae**
Culama australis?; *glaucha*
Endoxyla affinis; *arachnophora*; *encyalptyi*;
epicycla; *lichenea*; *liturata*; *nubila*
Sympycnodes digitata; *dunnorum*; *rhaftodes*
Zyganisus fulvicollis
- Crambidae**
Achyra affinalis; *massalis*
Anemosia exanthes
Anydraula glycerialis
Autarotis milvellus
Calamotropha dielota; *leptogrammellus*;
paludella
Canuza euspilella
Culladia cuneiferella
Deuterarcha xanthomela
Diasemiopsis ramburialis
Diathrausta ochreipennis
Dichocrocis clytusalis
Eclipsiodes crypsixantha
Eudonia anthracias; *cleodoralis*
Glaucocharis dilatella
Glycythyma leonina
Glyphodes microta
Hednota acontophora; *bifractella*; *bivittella*;
crypsichroa; *diargyra*; *grammella*;
invalidella; *longipalpella*; *opulentella*;
panteucha; *pedionoma*; *relatalis*; *xylophaea*
Hellula hydralis
Hygraula nitens
Ischnurges illustralis
Metallarcha diplochrysa
Metasia achroa; *dicealis*; *familiaris*; *liophaea*
Musotima nitidalis; *ochropteralis*
Nacoleia mesochlora; *oncophragma*; *rhoeoalis*
Nomophila corticalis
Notarcha chrysoplasta
Omiodes diemenalis
Ostrinia furnacalis
Palpita austrounionalis
Parapoynx polydectalis; *tullialis*
Parotis atlitalis
Phanomorpha dapsilis
Ptochostola microphaeella
Pyrausta panopealis
Sceliodes cordalis; *crocospila*; *exhibitialis*;
paracycla
Sedenia cervicalis; *rupalis*
Spoladea recurvalis
Strepsinoma foveata
Tawhitia pentadactylus
Tipanaea patulella
Uresiphita ornithopteralis
- Depressariidae**

<i>Enchocrates</i> sp.	<i>Phenacomorpha bisecta</i>
<i>Eutorna diaula; leptographa; phaulocosma; tricasis</i>	<i>Philenora irregularis</i>
<i>'Oecophora' iodes</i>	<i>Philogethes metableta</i>
<i>Pedois anthracias; humerana; lewinella; sarcinodes</i>	<i>Phytometra formosalis; laevis</i>
Elachistidae	<i>Praxis difficilis; edwardsii; marmarinopa; pandesma; porphyretica</i>
<i>Elachista (Atachia) coalita [T]; floccella [T]</i>	<i>Prionopterina grammatis</i>
<i>Elachista (Elachista) platina [T]; sandaraca [T]</i>	<i>Prorocopsis euxantha</i>
Erebidae	<i>Rhapsa suscitatialis</i>
<i>Achaea argilla; janata</i>	<i>Rhodina falcularis</i>
<i>Aloa marginata</i>	<i>Sandava scitisignata; xylistis</i>
<i>Amata aperta; trigonophora; xanthura</i>	<i>Scaptesyle monogrammaria</i>
<i>Amyna natalis; punctum</i>	<i>Scoliacma bicolora; nana</i>
<i>Anestia ombrophanes; semiochrea</i>	<i>Sophta concavata</i>
<i>Anomis involuta</i>	<i>Spilosoma canescens; curvata; glatignyi</i>
<i>Arrade destituta; leucosmalis</i>	<i>Stenoscapta venusta</i>
<i>Artigisa impropria; melanephelle</i>	<i>Tathorhynchus fallax</i>
<i>Asura lydia</i>	<i>Teia anartoides</i>
<i>Calamidia hirta</i>	<i>Termessa gratiosa; laeta; nivosa; shepherdii; xanthomelas; zonophanes</i>
<i>Calathusa ischnodes; thermosticha</i>	<i>Thallarcha albicollis; chrysochares; fusa; jocularis; oblita; partita; pellax; phalarota; sparsana; trissomochla</i>
<i>Castulo doubledayi</i>	<i>Thermeola</i> sp.
<i>Corgatha dipyla; molybdophae; sideropasta</i>	<i>Threnosia heminephes</i>
<i>Crioa hades</i>	<i>Tigrioides alterna</i>
<i>Damias pelochroa</i>	<i>Trigonistis demonias</i>
<i>Dasypodia cymatodes; selenophora</i>	<i>'Trigonistis' asthenopa</i>
<i>Diatenes aglossoides; gerula</i>	<i>Utetheisa lotrix; pulchelloides</i>
<i>Dichromia quinqualis</i>	
<i>Donuca lanipes; spectabilis</i>	
<i>Dysgonia frontinus</i>	Ethmiidae
<i>Eilema plana</i>	<i>Ethmia clytodoxa; eupostica</i>
<i>Ericeia subsignata</i>	
<i>Eublemma cochylioides; inconspicua; leucodesma; nymphodora</i>	Galacticidae
<i>Eudesmeola lawsoni</i>	<i>Amphithera heteromorpha</i>
<i>Eudocima materna</i>	
<i>Euproctis baliolalis; edwardsii; marginalis</i>	Gelechiidae
<i>Eutane terminalis</i>	<i>Ardozyga hemichlaena; telopis</i>
<i>Grammodes justa; ocellata; oculicola</i>	<i>Macrenches clerica</i>
<i>Halone coryphoea; sejuncta; servilis</i>	<i>Scrobipalpa aptatella</i>
<i>Heliosia jucunda</i>	<i>Symmetrischema tangolias</i>
<i>Hypena masurialis</i>	
<i>Hypocala deflorata</i>	Geometridae
<i>Icta fulviceps</i>	<i>Adeixis inostentata</i>
<i>Iropoca rotundata</i>	<i>Aeolochroma metarhodata</i>
<i>Laelia obsoleta</i>	<i>Amelora anepiscepta; arotraea; demistis; goniota; leucaniata; mesocapna</i>
<i>Lophotoma diagrapha; metabula</i>	<i>Amphiclasta lygaea</i>
<i>Manulea replana</i>	<i>Anachloris subochraria; uncinata</i>
<i>Mataeomera coccophaga; ligata; mesotaenia</i>	<i>Androchela milvaria</i>
<i>Meranda susialis</i>	<i>Anomocentris trissodesma</i>
<i>Meyrickella torquesauria</i>	<i>Antasia flavicapitata</i>
<i>Narangodes nigridiscata</i>	<i>Antictenia punctunculus</i>
<i>Nyctemera amicus</i>	<i>Apodasmia rufonigraria</i>
<i>Ophiusa parcemacula</i>	<i>Arhodia lasiocamparia</i>
<i>Orgyia anartoides</i>	<i>Astroterpna paratorna</i>
<i>Ozarba chrysaspis</i>	<i>Authaemon stenonipha</i>
<i>Palaeosia bicosta</i>	<i>'Boarmia' panconita</i>
<i>Pantydia canescens; diemeni; sparsa</i>	<i>'Camptogramma' severata; squamulata</i>
<i>Phaeophlebosia furcifera</i>	<i>Capusa cuculloides; senilis; stenophara</i>
	<i>Casbia melanops; pallens; tetrameria; Cassythaphaga macarta</i>

<i>Chlenias banksiaria; belophora; ochrocrana</i>	<i>Rhinodia rostraria</i>
<i>Chloroclystis approximata; filata; pallidiplaga</i>	<i>Rhuma argyraaspis</i>
<i>Chlorocoma stereota; vertumnaria</i>	<i>Rhynchopsota rhyncophora</i>
<i>Chrysolarentia heliacaria; imperviata;</i>	<i>Sauris lichenias</i>
<i>leptophrica; lucidulata; mecyntata;</i>	<i>Scioglyptis chionomera; loxographa; lyciaria</i>
<i>subrectaria; vicissata</i>	<i>Scopula oppilata; perlata; rubraria</i>
<i>Ciampa arietaria; chordota; heteromorpha</i>	<i>Smyriodes aplectaria</i>
<i>Circopetes obtusata</i>	<i>Stibaroma melanotoxa</i>
<i>Cryphaea xyloina</i>	<i>Syneora praecisa</i>
<i>Crysiphona occultaria</i>	<i>Taxeotis endela; exsectaria; intextata; subvelaria</i>
<i>Cyneoterpnna alpina; wilsoni</i>	<i>Tephrosia' externaria</i>
<i>Dichromodes ainaria; atrosignata; confluaria;</i>	<i>Thalaina clara</i>
<i>consignata; disputata; estigmaria</i>	<i>Visiana brujata</i>
<i>Didymoctenia exsuperata</i>	<i>Xanthorhoe anaspila; anthracinata; strumosata;</i>
<i>Dissomorphia australiaria</i>	<i>vacuaria; xanthospila</i>
<i>Dithalama cosmospila</i>	<i>Zermizinga sinuata</i>
<i>Dolabrossa sp.</i>	<i>Zeuctophlebia squalidata</i>
<i>Dysbatus stenodesma</i>	
<i>Eccymatoge callizona; fulvida; morphna</i>	Glyphipterigidae
<i>Ectropis bispinaria; excursaria; fractaria</i>	<i>Glyphipteryx chrysoplanetis; cyanophracta;</i>
<i>Epicyme rubropunctaria</i>	<i>leucoplaca; meteora; palaeomorpha;</i>
<i>Epidesmia hypenaria; perfabricata</i>	<i>perimetalla</i>
<i>Epyaxa hyperythra; sodaliata; subidaria</i>	
<i>Eucyclodes buprestaria; insperata</i>	Gracillariidae
<i>Euloxia meandraria</i>	<i>Acrocercops alycidota; antimima; irrorata;</i>
<i>Fisera belidearia; eribola</i>	<i>laciarella; leptalea; ophioderes; parallela;</i>
<i>Gastrina cristaria</i>	<i>plebeia</i>
<i>Gastrinodes argoplaca; bitaeniaria</i>	<i>Lithocletis sp.</i>
<i>Gastrophora henricaria</i>	<i>Phyllocnistis sp.</i>
<i>'Gynopteryx' ada</i>	
<i>'Hydriomena' plagiocausta</i>	Helicosma group
<i>Hypobapta diffundens; percomptaria</i>	<i>Acmosara polyxena</i>
<i>Hypodoxa muscosaria</i>	<i>Helicosma argyroleuca; incongruana</i>
<i>Idaea costaria; inversata; nephelota</i>	<i>Hyperxena sp.</i>
<i>Idiodes apicata</i>	
<i>Isturgia penthearia</i>	Hepialidae
<i>Lipogya experimataria</i>	<i>Abantiades barcas; labyrinthicus; magnificus</i>
<i>Maxates centrophylla</i>	<i>Oncopera rufobrunnea</i>
<i>Melanodes anthracitaria</i>	<i>Oxycanus antipoda; dirempta; silvanus</i>
<i>Microdes diplodonta; squamulata; villosata</i>	<i>Trictena atripalpis</i>
<i>Mictodoca toxentea</i>	
<i>Mnesampela comarcha; lenaea; privata</i>	Herminiidae
<i>Monocentria smerintharia</i>	<i>Lithilaria ossicolor</i>
<i>Nearcha aridaria; nullata; pseudophae; ursaria</i>	<i>Mormoscopa phricozona; sordescens</i>
<i>Niceteria macrocosma</i>	
<i>Nisia notodontaria; serrata</i>	Hesperiidae
<i>Oenochroma privata; subustaria; vetustaria;</i>	<i>Dispar compacta</i>
<i>vinaria</i>	<i>Netrocoryne repanda</i>
<i>Paralaea ochrosoma; porphyrinaria; sarcodes</i>	<i>Ocybadistes walkeri</i>
<i>Paraterpnna harrisoni</i>	<i>Taractrocera papyria</i>
<i>Parosteodes fictiliaria</i>	<i>Toxidia peron</i>
<i>Phallaria ophiusaria</i>	<i>Trapezites luteus; phigalia; phigalioides</i>
<i>Phelotis cognata</i>	
<i>Phrataria bijugata; transciassata</i>	Hypertrophidae
<i>Phrissogonus laticostata</i>	<i>Allotropha sp.</i>
<i>Pingasa cinerea</i>	<i>Eupselia aristonica; beatella; carpocapsella;</i>
<i>Plesanemma fucata</i>	<i>melanostrepta; satrapella; theorella</i>
<i>Poecilasthena pulchraria</i>	<i>Hypertropha chlaenota; tortriciformis</i>
<i>Prasinocyma rhodocosma; semicrocea</i>	<i>Peritropha oligodrachma</i>
<i>Psilosticha absorpta; attacta; pristis</i>	<i>Thudaca mimodora</i>
	Lasiocampidae
	<i>Pernattia pusilla</i>
	<i>Entometa apicalis; decorata; guttularis</i>

<i>Genduara acedesta; punctigera</i>	<i>Hecatesia fenestrata</i>
<i>Opsirhina lechriodes</i>	<i>Helicoverpa armigera; punctigera</i>
<i>Pararguda australasiae; crenulata; nasuta</i>	<i>Heliocheilus aberrans; cramboides; eodora;</i>
<i>Pinara cana; obliqua</i>	<i>ionola; moribunda; pallida; vulpinotatus</i>
<i>Porela delineata; vetusta</i>	<i>Heliothis punctifera</i>
<i>Sympyta colpodes?</i>	<i>Himerois basiscripta</i>
Lecithoceridae	<i>Hypoperigea tonsa</i>
<i>Crocanthes prasinopis</i>	<i>Idalima affinis</i>
Limacodidae	<i>Ipanica cornigera</i>
<i>Doratifera oxleyi; pinguis; quadriguttata</i>	<i>Leucania cruegeri; diatrecta; stenographa; uda</i>
<i>Pseudanapaea transvestita</i>	<i>'Leucania' exarans; obumbrata; obusta</i>
Lophocoronidae	<i>Maliattha amorphia; ritsemae</i>
<i>Lophocorona melanora [T]</i>	<i>'Mamestra' dictyota</i>
Lycaenidae	<i>Musothyma cyanastis</i>
<i>Acrodipsas aurata</i>	<i>Mythimna convecta;</i>
<i>Candalides acasta; heathi; hyacinthinus</i>	<i>Neumichtis expulsa; mesophaea; nigerrima;</i>
<i>Hypochnysops delicia</i>	<i>salaris; signata; spumigera</i>
<i>Jalmenus evagoras; ictinus</i>	<i>Paromphale caeca</i>
<i>Lampides boeticus</i>	<i>Periscepta polysticta</i>
<i>Nacaduba biocellata</i>	<i>Persectania dyscrita; ewingii</i>
<i>Neolucia agricola</i>	<i>Phalaenoides glycinae</i>
<i>Ogyris olane</i>	<i>Prometopus inassueta</i>
<i>Theclinesthes serpentatus</i>	<i>Proteuxoa atra; bistrigula; capularis;</i>
<i>Zizina otis</i>	<i>cinereicollis; florescens; heliosema;</i>
Lyonetiidae	<i>hydraeciooides; marginalis; mesombra;</i>
<i>Dascia sagittifera</i>	<i>metaneura; microspila; oxygona; paragypsa;</i>
Momphidae	<i>porphyrescens; restituta; spodias;</i>
<i>Zapyrastra</i> sp.	<i>testaceicollis; tortisigna</i>
Noctuidae	<i>Sasunaga tenebrosa</i>
<i>Acontia clerana; detrita; hieroglyphica; nivipicta</i>	<i>Spodoptera exigua; litura; mauritia</i>
<i>Arapex albicostata; exsanguis</i>	<i>Xanthodes amata; congenita</i>
<i>Aedia leucomelas</i>	<i>'Xanthoptera' macrosema</i>
<i>Agrotis infusa; epsilon; munda; porphyricollis;</i>	
<i>radians</i>	
<i>Apina callisto</i>	Nolidae
<i>Athetis tenuis</i>	<i>Armactica columbina; conchidia</i>
<i>Australothis rubrescens</i>	<i>Astrocarea iocephala</i>
<i>Bathytricha truncata</i>	<i>Earias chlorodes; huegeliana; paralella;</i>
<i>Buciara bipartita</i>	<i>smaragdina</i>
<i>Callopistria rivularis</i>	<i>Elesma subglauca</i>
<i>Chasmina pulchra</i>	<i>Nanaguna clopea</i>
<i>Chrysodeixis argentifera; eriosoma; subsidens</i>	<i>Nola albalis; delograptia; irenica; paromoea;</i>
<i>Cirphis ebriosa</i>	<i>phaeogramma; pleurosema; semograpta;</i>
<i>Comocrus behri</i>	<i>tetralopha</i>
<i>Condica aroana</i>	<i>Orthocraspis leptoplasta</i>
<i>Cosmodes elegans</i>	<i>Uraba lugens</i>
<i>Cruria donowani</i>	
<i>Ctenoplusia albostriata</i>	Notodontidae
<i>Dasygaster padockina</i>	<i>Destolmia lineata</i>
<i>Diarsia intermixta</i>	<i>Epicoma contristis; melanospila; tristis</i>
<i>Ectopatria horologa; mniodes; mundooides;</i>	<i>Hobartina eusciera</i>
<i>paurogramma</i>	<i>Hylaeora capucina; caustopis; dilucida</i>
<i>Epicyrtica leucostigma; melanops</i>	<i>Neola semiaurata</i>
<i>Eremochroa alphitias</i>	<i>Sorama bicolor</i>
<i>Eulocastra tripartita</i>	<i>Trichiocercus sparshalli</i>
<i>Eutrichopidia latinus</i>	
	Nymphalidae
	<i>Acraea andromacha</i>
	<i>Charaxes sempronius</i>
	<i>Danaus petilia; plexippus</i>
	<i>Geitoneura klugii</i>
	<i>Heteronympha merope; paradelpha; penelope</i>
	<i>Hypolimnas bolina</i>

<i>Junonia villida</i>	Pieridae
<i>Tirumala hamata</i>	<i>Appias paulina</i>
<i>Vanessa itea; kershawi</i>	<i>Belenois java</i>
Oecophoridae	<i>Catopsilia pyranthe</i>
<i>Acanthodela protophaes</i>	<i>Delias aganippe; harpalycē</i>
<i>Ageletha hemiteles</i>	<i>Eurema smilax</i>
<i>Agriophara axesta; gravis</i>	<i>Pieris rapae*</i>
<i>Anomozancla scopariella</i>	
<i>Atholosticta oxypeuces</i>	Plutellidae
<i>Brachynemata cingulata</i>	<i>Phalangitis</i> sp.
<i>Catacometes hemiscia</i>	<i>Plutella psammochroa; sera; xylostella</i>
<i>Catoryctis sciastis</i>	<i>Tritymba acrosnila; pamphaea</i>
<i>Cirromitra tetratherma</i>	
<i>Cnecophora cinetica</i>	Psychidae
<i>Coeranica isabella</i>	<i>Ardiosteres moretonella; velutinana</i>
<i>Coesyra phaeozona</i>	<i>Cebysa leucotelus</i>
<i>Coracistis erythrocossa</i>	<i>'Chalia' grisea</i>
<i>Corethropalpa melanoneura</i>	<i>Clania ignobilis; lewinii</i>
<i>Crepidosceles orthomochla</i>	<i>Hyalarcta huebneri</i>
<i>Cryptolechia triphaenatella</i>	<i>Lepidoscia arctiella; carlotta; cataphracta;</i> <i>characota; tyrobathra</i>
<i>Delexocha ochrocausta</i>	<i>Lomera boisduvalii</i>
<i>Ericibdela delotis</i>	<i>'Plutorectis' capnaea</i>
<i>Eulechria electrodes; isogramma; xeropterella</i>	<i>Trigonocytara clandestina</i>
<i>Hemibela hemicalypta</i>	
<i>Hoplomorpha camelaea</i>	Pterophoridae
<i>Ioptera demica</i>	<i>Imbophorus aptalis</i>
<i>Ironopolia sobriella</i>	<i>Platypilia celidotus</i>
<i>Maroga melanostigma</i>	<i>Sinpunctiptilia emissalis</i>
<i>Myrascia bracteatella</i>	<i>Stangeia xerodes</i>
<i>Notodryas vallata</i>	<i>Stenoptilia zophodactylus</i>
<i>Olbonoma triptycha</i>	
<i>Olenacantha egelida</i>	Pyralidae
<i>Oxythecta acceptella; loxomochla</i>	<i>Asarta fuliginosa</i>
<i>Palimmece habrophanes</i>	<i>Heteromicta pachytera</i>
<i>Parergophela melirrhoa</i>	<i>Lasiosicha canilinea</i>
<i>Petalanthes hexastera</i>	<i>Spectrotrota fimbrialis</i>
<i>Phauloplana illuta</i>	
<i>Philobota auxolyca; chionoptera; lysizona;</i> <i>productella</i>	Roeslerstammiidae
<i>Phryganeutis cinerea</i>	<i>Nematobola orthotricha</i>
<i>Phthonerodes peridela [T]</i>	<i>Thereutis chionozyga</i>
<i>Phytotrypa propriella</i>	
<i>Piloprepes anassa</i>	Saturniidae
<i>Prepalla tephrina</i>	<i>Opodiphthera eucalypti; helena</i>
<i>Ptochosaris horrenda</i>	
<i>Satrapia thesaurina</i>	Sphingidae
<i>Stathmopoda melanochra</i>	<i>Agrius convolvuli; godarti</i>
<i>Tanyzancla marionella</i>	<i>Hippotion celerio; scrofa</i>
<i>Telecrates laetiorella</i>	<i>Hyles livornicoides</i>
<i>Thema macroscia</i>	
<i>Tisobarica thyteria</i>	Thyrididae
<i>Tortricopsis aulacois; uncinella</i>	<i>Aglaopus centiginosus; pyrrhatus</i>
<i>Wingia lambertella</i>	
Oenosandridae	Tineidae
<i>Discophlebia catocalina?; lucasii</i>	<i>Acridotarsa</i> sp.
<i>Oenosandra boisduvalii</i>	<i>Craniosara pyrotricha</i>
Papilionidae	<i>Edosa ochracea</i>
<i>Graphium macleayanum</i>	<i>Moerarchis inconcisella</i>
<i>Papilio aegeus; anactus; demoleus</i>	<i>Monopis crocicapitella; ethelella; icterogastra;</i> <i>meliorella</i>
	<i>Tinea corynephora</i>
	<i>Tineola bisselliella</i>
	Tortricidae
	<i>Epiphyas asthenopis; postvittana</i>

Epitymbia cosmota
Crocidosema plebejana
Strepsicrates ejectana

Uraniidae
Lobogethes interrupta

Yponomeutidae
Prays autocasis
Yponomeuta internellus
Zelleria aphrospora; cynetica; euthysema;
hemixypha?; panceuthes; perimeces;
pyroleuca

Zygaenidae
Hestiochora furcata
Pollanisus apicalis; lithopastus;
viridipulverulenta

ORDER MANTODEA (MANTIDS)

Mantidae
Tenodera australasiae

ORDER MECOPTERA (SCORPIONFLIES)

Bittacidae
Harpobittacus australis

Choristidae
Chorista australis

ORDER MEGALOPTERA (DOBSONFLIES)

Corydalidae
Archichauliodes deceptor

ORDER NEUROPTERA (LACEWINGS)

Coniopterygidae
Coniopteryx (Xeroconiopteryx) tillyardi
Neosemidalis (Neosemidalis) longiscapa [T]

Hemerobiidae
Micromus tasmaniae

Mantispidae
Campion tenuistrigus

Myrmeleontidae
Glenoleon sp.

ORDER ODONATA (DRAGONFLIES)

Aeshnidae
Adversaeshna brevistyla

Austropetalidae
Austropetalia patricia

Corduliidae
Hemicordulia tau

Gomphidae
Austrogomphus guerini

Lestidae
Austrolestes analis; annulosus; leda

Libellulidae
Nannophya dalei
Orthetrum caledonicum
Pantala flavescens

Megapodagrionidae
Austroargiolestes icteromelas

Synthemistidae
Parasynthemis regina
Synthemis eustalacta

Telephlebiidae
Astroaeschna parvistigma; unicornis

ORDER ORTHOPTERA (CRICKETS, GRASSHOPPERS)

Acrididae
Acrida conica
Aiolopus thalassinus
Austracris guttulosa
Austroicetes cruciata; frater; pusilla; vulgaris
Bermius brachycerus
Brachyexarna lobipennis
Caledia captiva
Chortoicetes terminifera
Cirphula pyrrhocnemis
Coryphistes ruricola
Cryptobothrus chrysophorus
Exarna includens
Gastrimargus musicus
Goniaea australasiae; carinata; opomaloides
Heteropternis obscurella
Macrotona australis; modesta
Minyacris nana
Oedaleus australis
Pardillana limbata
Peakesia brunnes; hospita
Perunga ochracea
Phaulacridium vittatum
Praxibulus duplex
Pycnostictus seriatus
Schizobothrus flavovittatus

Gryllotalpidae
Gryllotalpa sp.

Pyrgomorphidae
Attractomorpha australis

Tettigoniidae
Caedicia simplex
Conocephalomima barameda
Lanciana montana
Nanodectes harpax
Terpandrus jumbunna
Zaprochilus australis

ORDER PHASMIDA (PHASMIDS)**Phasmatidae**

Podacanthus typhon
Tropidoderus childrenii

Podothrips websteri [T]

Priesneria peronis [T]

Psalidothrips taylori [T]

Rhopalothonipoedes froggatti

Stephanothrips barretti

Strepterothrips barbatus [T]; *tuberculatus*

Zemiathrips triseta [T]

ORDER PLECOPTERA (STONEFLIES)**Gripopterygidae**

Dinotoperla serricauda
Illiesoperla australis
Riekoperla karki

Thripidae

Anaphothrips ambiguus; chortinus [T];
cucurbiti; exocarpi; exocarpoides [T];
obscurus; parsonsiae [T]; sudanensis;
westringiae [T]

Aptinothrips rufus

Australothrips bicolor

Bhattithrips frontalis

Caprithrips moundsi

Chirothrips frontalis; manicatus

Frankliniella schultzei

Heliothrips haemorrhoidalis

Limothrips cerealium

Lomatothrips pinopsidis [T]

Neohydatothrips argenticinctus

Odontothripiella australis

Pezothrips kellyanus

Pseudanaphothrips achaetus; aureolus;
casuarinae

Scirtothrips australiae

Tenothrips frici

Thrips australis; imaginis; nigropilosus;
simplex; tabaci

ORDER THYSANOPTERA (THRIPS)**Aeolothripidae**

Andrewarthaia kellyana
Desmothrips obsoletus; uniguttus
Franklinothrips vespiformis
Lamprothrips miltoni

Phlaeothripidae

Allothrips greensladei; hamideae [T]; *stannardi*
Apterygothrips australis
Baenothrips caenosus; moundsi
Bocathrips okajimai [T]
Callococcithrips fuscipennis
Cariuentothrips acti; casuarinae; loisthus; miskoi;
mjobergi; reedi [T]
Cartomothrips neboissi
Cryptothrips amneius
Deplorothrips capitalis [T]; *minaei* [T]
Emprosthothrips niger
Giraultithrips nigricoxa
Haplothrips anceps; bituberculatus; froggatti;
victoriensis
Holothrips australis [T]; *eurytis*
Hoplandrothrips hemiflavus [T]; *quadriconus*
Idolothrips spectrum
Jacotia glyptus [T]
Lissothrips talagandai
Minaeithrips aliceae [T]
Nesothrips carveri; propinquus
Pelinothrips ornatus
Phaulothrips anici; oakeyi

Appendix 2

Non-insect invertebrates recorded from Black Mountain: Class Arachnida (spiders, scorpions), Class Diplopoda (millipedes) and Phylum Onychophora (velvet worms)

CLASS ARACHNIDA

ORDER ARANEAE (SPIDERS)

Actinopodidae

Missulena occatoria

Araneidae

Argiope protensa

Arachnura higginsi

Austracantha minax

Celaenia excavata

Eriophora pustulosa; transmarina

Phonognatha graeffei

Clubionidae

Clubiona sp.

Corinnidae

Nyssus albopunctatus; coloripes

Desidae

Badumna insignis

Hersiliidae

Tamopsis sp.

Lamponidae

Lampona cylindrata

Linyphiidae

Erigone sp.

Lycosidae

Artoria quadrata

Tasmanicosa godeffroyi; leuckartii

Nemesiidae

Stanwellia sp.

Nephilidae

Nephila edulis

Oxyopidae

Oxyopes rubicundus

Pholcidae

Pholcus phalangioides

Salticidae

Apricia jovialis

Holoplatys mascordi

Jotus auripes

Maratus calcitrans [T]; *vespertilio*

Neon australis

Ocrisiona leucocomis

Sandalodes scopifer

Saratus hesperus

Servaea incana

Sparassidae

Delena cancerides

Holconia immanis

Isopeda sp.

Neosparassus calligaster; diana

Typostola barbata

Theridiidae

Latrodectus hasselti

Thomisidae

Sidymella sp.

Stephanopis cambridgei

Zodariidae

Habronestes hunti

ORDER SCORPIONES (SCORPIONS)

Buthidae

Lychas marmoreus; variatus

Urodacidae

Urodacus manicatus

CLASS DIPLOPODA (MILLIPEDES)

ORDER POLYDESMIDA (FLAT-BACKED MILLIPEDES)

Paradoxosomatidae

Akamptogonus novarae

Dicladosomella sp.

PHYLUM ONYCHOPHORA (VELVET WORMS)

Peripatopsidae

Euperipatoides rowelli