

Appendix

Euchromiina wasp moths (Lepidoptera, Erebidae, Arctiinae, Arctiini) of Trinidad and Tobago

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Appendix of supplementary material

Part 1. Data for material and images examined.

This is a listing of all records compiled from the sources listed in the main text, following a standard format:

- locality,
- means of capture; MVL is used to indicate captures made using a mercury vapour light with a strong ultra-violet component to attract the adults by night, whereas ‘at light’ normally refers to other lights, e.g. domestic lighting:
- sex of specimen(s) if known (a ‘?’ indicates uncertainty, e.g. in a photograph, or the sex was not noted at the time)
- any additional comments on condition, e.g. abdomen missing (in parentheses)
- date of capture using lower case Roman letters for the months, e.g. 6.iv.1952 for 6 April 1952
- collector/photographer (in parentheses) or [square brackets] where the data was extrapolated from external information]
- collection holding the specimen (if any), and any comments regarding curation / identification from the time MJWC examined the collection, accession number, DNA sample code, genitalia number, etc. [in square brackets]
- Figs. in the main text (in parentheses)

This includes a listing of all material from Trinidad & Tobago reported by Fleming (1957) or examined by one of the authors. In preparing this work, we consulted the following collections, either in person or from images shared by their staff (see acknowledgements in main paper, https://ttfnc.org/livingworld/index.php/lwj/article/view/cock_laguerre2023/article):

MGCLB	McGuire Center for Lepidoptera & Biodiversity, Gainesville FL, USA;
MJWC	the private research collection of M.J.W. Cock, UK (records from all specimens and unpublished notes compiled and collated);
MNB	Museum für Naturkunde Berlin, Germany;
NHMUK	Natural History Museum, London, UK, which contains much historical material collected by F. Birch, S.M. Klages, W.J. Kaye, and others (the main sequence was checked and records included, but accessions were not reviewed);
NMS	National Museum of Scotland, Edinburgh, UK, which includes part of the collections of Sir Norman Lamont and D.J. Stradling (records from both compiled and collated);
OUMNH	Oxford University Museum of Natural History, which includes material collected by R.M. Farmborough and others (records from many, but perhaps not all, specimens from both the main sequence and accessions compiled and collated);
SDEI	Senckenberg Deutsches Entomologisches Institut, Müncheberg, Germany
USNM	National Museum of Natural History (formerly United States National Museum), Washington DC, USA (type material examined, but only selected species in the main collection);
UWIZM	University of the West Indies Zoological Museum, St. Augustine, Trinidad & Tobago, which includes part of the collections of Sir Norman Lamont and D.J. Stradling as well as the former CABI collection containing material collected by the author, F.D. Bennett, R.E. Cruttwell (now McFadyen), R. Brown and T. Cassie, M. Morais, and others (records from all specimens compiled and collated).

We have also examined images of live material from various contacts (see specimen listings and acknowledgements) as well as reviewing the records on iNaturalist (<https://www.inaturalist.org/>) and selected other websites. References cited in the listing are included in the main paper.

Family Erebidae Leach, 1815

Subfamily Arctiinae Leach, 1815

Tribe Arctiini Leach, 1815

Subtribe Euchromiina Butler, 1876

Autochloris almon (Cramer, 1779)

Cat's Hill, eupatorium flowers: 2♀ 24.ix.2017 (J. Morrall) [MJWC, DNA 152, 153] (Fig. 4)
 Inniss Field, *Eupatorium* flowers: ♂, ♀ (in cop.) 2.x.1994 (M.J.W. Cock) [MJWC] (Figs. 3–4)
 Palmiste: ♂ 30.viii.1948 [N. Lamont] [UWIZM.2013.13.1121, as *Mydropastea chrysonota*]
 Parrylands, *Eupatorium* flowers: ♀ x.2017 (S. Alston-Smith) [MJWC, DNA 158]; ♂, ♀ v.2018 (S. Alston-Smith) [MJWC];
 ♂, ♀ 29.ix.2019 (J. Morrall) [MJWC, DNA 357] (Fig. 3)
 [Trinidad]: ♂ [N. Lamont] ('cotype' of *Mydropastea disparata* Kaye) [NMS]

Calonotos aterrima (Sepp, 1847) ssp. *tripunctata* Druce, 1898

Many male specimens listed below have been noted to have two spots on the forewing, but no assumptions about the phenotype should be made where this character is not noted.

Arima Valley, Simla: 7♂, 14♀ [AMNH not seen (Fleming 1957)]
 Brigand Hill, lighthouse security MVL lights: ♂ (2 spots F) 17.i.2004 (M.J.W. Cock) [MJWC]
 Caparo: ♀ (A. Heyne) [SDEI, lectotype of *C. tiburtus trinidadensis* Strand]
 Cat's Hill, eupatorium flowers: ♀ 24.ix.2017 (John Morrall) [MJWC, DNA 151]
 Nr. Chatham, at light: ♂ (2 spots F) i.iv.1981 (M. Alkins) [UWIZM CABI.5437]
 Cumaca Road, 0.5 miles, MVL: 2♀ 27.x.1980 (M.J.W. Cock) [MJWC; UWIZM CABI.5438]
 Cumaca Road, 4.6 miles, MVL: ♂ (2 spots F) 21.x.1982 (M.J.W. Cock) [MJWC] (Fig. 5)
 Curepe, at light: ♀ 24.vi.1978 (M.J.W. Cock) [MJWC] (Fig. 6)
 Curepe, MVL: ♂ (2 spots F) 7.viii.1978 (M.J.W. Cock) [UWIZM CABI.5439]; ♀ 26.v-11.vi.1981 (F.D. Bennett) [UWIZM CABI.5440]
 Fondes Amandes: ♂ (? spots) [MGCLB, ex coll. Kaye, as *Calonotos chalcipleura*]
 Mt. Tamana, 10.47 -61.19: ♂ 25.xi.2021 (L. Arneaud photo) [iNaturalist observation 106427275]
 Palmiste: ♀ 25.vi.1917 [N. Lamont] [NMS, as *C. tripunctata*]; ♂ (? spots) 21.i.1936 [N. Lamont] [NMS, as *C. tripunctata*];
 ♂ (2 spots F) 21.iv.1947 [N. Lamont] [UWIZM.2013.13.1124, as *C. tripunctata*]
 Parrylands, *Eupatorium* flowers: ♀ x.2017 (S. Alston-Smith) [MJWC, DNA 159]
 < 15 mi from Port of Spain, < 1,000 ft.: ♂ (2 spots F) xii.1913-iv.1914 (F.W. Jackson) [OUMNH, as *C. tripunctata*]
 S Anns: ♀ 18.ix.[18]99 [MGCLB, ex coll. Kaye, as *C. chalcipleura*]
 St. Ann's: ♂ (? spots) (G.E. Tryhane) [MGCLB, ex coll. Kaye, as *C. chalcipleura*]; ♀ (H.A. Nurse) [MGCLB, ex coll. Kaye, as *C. chalcipleura*]
 St. Augustine, at light: 5.vi.1978 (M.J.W. Cock) [NHMUK, TL-58]
 St. Augustine, UWI: ♂ (2 spots F) 11.ii.2021 (nandani_bridglal photo) [iNaturalist observation 69700815] (Fig. 7)
 St. Joseph, 600 ft.: ♀ 5.iv.1922 (F.W. Jackson) [OUMNH, as *C. tripunctata*]
 Nr Sangre Grande, Caigual: ♀ viii.1917 (Mrs H. Turner) [OUMNH, labelled *C. tripunctata* Druce, in W.J. Kaye's writing]
 Valencia Forest, MVL: ♂ (2 spots F) iv.1980 (M.J.W. Cock) [MJWC]
 Valsayn North: ♂ 4.xii.2022 (T. Mathura photo) [iNaturalist observation 143647086, 143647077]
 Tabaquite: ♀ 18.i.1921 (W.J. Kaye) [MGCLB, ex coll. Kaye, as *C. chalcipleura*]
 Toco, 10.826 -60.933: ♂ (pinned) 10.vi.2022 (laineelston photo) [iNaturalist observation 121121101]
 Trinidad: ♂ (2 spots F) (type of *C. tripunctata*) [NHMUK]; ♂ (2 spots F) (S.J. Tryhane) [NHMUK, as *C. tripunctata*]; ♂ (2 spots F) ([F.W.] Jackson) [NHMUK, as *C. tripunctata*]; ♂, ♀ (♂ 2 spots F) iv-v.1902 (E. Bourke) [OUMNH]; ♂ (2 spots F), ♀ [OUMNH, ex Doncaster coll. as *C. tripunctata*]; ♀ 2020-2021 (S. Alston-Smith) [MJWC, DNA-491]

***Calonotos chalcipleura* Hampson, 1898**

Arima Valley, near Asa Wright Nature Centre: ♀ 27.ix.2022 (J. Morrall) [MJWC, DNA-MJWC-592]
 Inniss Field, 10.167 -61.265, by night: ♂ 21.v.2022 (R. Deo photo) [iNaturalist observation 118264188] (Fig. 9)
 Maraval: ♀ xi.1931-ii.1932 (A. Hall) [NHMUK as *Metaloba nana* Druce]
 Northern Mountains: ♂ xii.1938-i.1939 (A. Hall) [NHMUK, as *Metaloba nana* Druce]
 Morne Bleu Ridge, Textel Road: ♂ ix.2021 (S. Alston-Smith) [MJWC, DNA-492, genitalia 1150] (Fig. 8, Appendix Figs. 1, 25)
 < 15 mi from Port of Spain, < 1,000 ft.: ♀ xii.1913-iv.1914 (F.W. Jackson) [OUMNH]
 St. Ann's: ♂ xi.xii.1921 (A. Hall) [NHMUK, as *Metaloba nana* Druce]
 Trinidad: ♀ [OUMNH, ex Doncaster coll. as *C. tripunctata*]

***Calonotos flemingi* Cock and Laguerre, 2022**

Curepe, MVL: ♂ 15.ix.1979 (M.J.W. Cock) [MJWC, genitalia 1123, holotype]; ♂ 15-22.iv.1982 (M.J.W. Cock) [MJWC, genitalia 1110, paratype] (Fig. 11)
 Fons Amandes, 200 ft.: ♀ 19.iii.1922 (F.W. Jackson) [OUMNH, paratype] (Fig. 10)
 < 15 mi from Port of Spain, < 1,000 ft.: ♂ xii.1913-iv.1914 (F.W. Jackson) [OUMNH, paratype]
 Preysal, 10.41 -61.38: ?♂ 12.vi.2021 (A. Deacon photo) [iNaturalist observation 82777772]
 St. Ann's: ♂ [MGCLB, ex coll. Kaye, as *C. chalcipleura*, paratype]
 Trinidad: ♀ iv-v.1902 (E. Bourke) [OUMNH, paratype] (Fig. 11); ♂ ii.1930 (A. Hall) [NHMUK as *C. triplaga* Hampson, paratype]

***Calonotos helymus* (Cramer, 1775) ssp. *craneae* Fleming, 1957**

Arima Valley, 10.706 -61.283: ♂ (2 spots F) 29.xi.2019 (R. Deo photo) [iNaturalist observation 36195679] [this is the same individual: Upper Guanapo Valley, 29.xi.2019 (S. Manchouk photo) [iNaturalist observation 38096742]
 Arima Valley, Asa Wright Nature Centre: ♂ 23.iii.2015 (S. Nanz, photo 3682); ♂ 11.ii.2017 (J. Muddeman, photo 0499); ♀ 5.iii.2007 (S. Daniel photo) [iNaturalist observation 69947571]; ? (trace of green scales at base of wing, but green costal streak well defined) 9.iii.2007 (S. Daniel photo) [iNaturalist observation 70051687]
 Arima Valley, Simla: ♀ (paratype) 6.v.1953 [NHMUK]; ♂ (paratype) 13.v.1953 [NHMUK]; other types in AMNH (Fleming 1957)
 Arima Valley, Simla, at light: ?♀ i.2012 (D.J. Stradling photo SAM_4098)
 Arima Valley, Temple Village, at light: ♂ 2.v.2022 (S. Tran photo) [iNaturalist observation 115043421]
 Caparo: 2♂ (F. Birch) [NHMUK, as *C. tripunctata*]; ♂, ♀ (A. Heyne) [SDEI, syntypes of *C. tiburtus trinidadensis* Strand]
 Cat's Hill, on flowers of *Austro eupatorium inulaefolium*: 2♀ 24.ix.2019 (J. Morrall) [MJWC; DNA 333, 339] (Fig. 14)
 Curepe: ♂ ix.1969 (F.D. Bennett family) [MJWC]
 Curepe, at light: ♂ (3 spots F) 28.viii.1978 (M.J.W. Cock) [UWIZM CABI.5427]
 Curepe, MVL: 2♂, ♀ (♂ with trace of spot 3 F; ♂ 3 spots F) 197- (F.D. Bennett) [UWIZM CABI.5428, 5430, 5431]; ♀ i.1971 (R. Cruttwell) [UWIZM CABI.5432]; ♂ xii.1972 [UWIZM CABI.5429]; ♂ 5.i.1980 (M.J.W. Cock) [MJWC] (Fig. 13); ♀ 26-31.xii.1980 (M.J.W. Cock) [MJWC]
 Las Cuevas Bay, swamp behind beach, by day: ♂ (3 spots F) 23.iii.2003 (M.J.W. Cock) [MJWC]
 Mt. Lambert, MVL: ♀ ii.1973 [UWIZM CABI.5433]
 Mt. St. Benedict Rd.: ♂ 17.ix.2022 (hameeda photo) [iNaturalist observation 135392183]
 [Palmiste]: undated [prior to 1915] [N. Lamont] [NMS, as *C. chalcipleura*]
 Palmiste: ♂ 30.iv.1921 [N. Lamont] [NMS, as *C. tripunctata*]; ♀ 11.i.1930 [N. Lamont] [NMS, as *C. chalcipleura*]; ♀ 15.xi.1946 [N. Lamont] [UWIZM.2013.13.1125, as *C. tripunctata*]; ♀ 7.iii.1947 [N. Lamont] [UWIZM.2013.13.1123, as *C. tripunctata*]; ♀ 4.x.1947 [N. Lamont] [UWIZM.2013.13.1126, as *C. tripunctata*]; ♀ 9.viii.1949 [N. Lamont] [UWIZM.2013.13.1122, as *C. tripunctata*]
 Penal: ♂ (2 spots F) 20.iv.2014 (K. Sookdeo photo, moths 41, 50)
 Port of Spain, Lady Chancellor Road, 10.687 -61.512: ?♂ 8.ii.2010 (M. Gibson photo) [iNaturalist observation 38419929] (Fig. 15)
 St. Ann's: 2♂ (G.E. Tryhane) [MGCLB, ex coll. Kaye, as *C. chalcipleura*]
 St. Ann's, Fondes Amandes Road, 10.687 -61.503: ♀ 2.ix.2019 (sarah-lee photo) [iNaturalist observation 31979874]
 St. Augustine: ♀ 8.xii.1923 (C.L. Withycombe) [NHMUK, as *C. tripunctata*]; ♀ 19.iii.2019 (M. Hulme photo) [iNaturalist

observation 21612419]; ♂ (dead) 11.iv.2021 (akilahs photo) [iNaturalist observation 73649448]
 St. Augustine, UWI, 10.641 -61.400: ?♂ 19.viii.2019 (M.G. Rutherford photo) [iNaturalist observation 31129831]
 St Benedict's: ♂ x.1980 (D.J. Hunt) [MJWC]
 Above St Benedict's, MVL: ♂ 26.v.1981 (M.J.W. Cock) [MJWC] (Fig. 12)
 St. Joseph, 10.652 -61.420: ♂ (2 spots F) 19.viii.2019 (magichin photo) [iNaturalist observation 31130810]
 Trinidad: ♂ (W.J. Kaye) [NHMUK, as *C. tripunctata*]; ♂ (2 spots F, hint of third) iv-v.1902 (E. Bourke) [OUMNH]; ♀
 (F.W. Jackson) [NHMUK, as *C. tripunctata*]; ♀ 1909 [MGCLB, ex coll. Kaye, as *C. chalcipleura*]; ♂ (2 spots F, trace
 of third), 4♀ [OUMNH, ex Doncaster coll. as *C. tripunctata*]; 3♂ [OUMNH, as *C. tripunctata*]
 [Trinidad]: ♀ 'Dec 12' (Rogers) [MGCLB, ex coll. Kaye, as *C. chalcipleura*]

***Calonotos tiburtus* (Cramer, 1780)**

Bush Bush Island, by night: ?♂ 8.iv.2022 (R. Deo photo) [iNaturalist observation 110744526] (Fig. 18), (R. Auguste photo)
 [iNaturalist observation 110769334]
 Bush Bush Island – Kernahan, 10.38 -61.032: ?♂ (dead) 1.iv.2022 (R. Deo photo) [iNaturalist observation 110564186]
 Curepe, MVL: ♀ (F.D. Bennett) [MJWC] (Fig. 17); ♂ ix.1970 (F. Bennett) [UWIZM CABI.5434]; ♀ 1972 (R. Cruttwell)
 [UWIZM CABI.5435]; ? 4.viii.1978 (M.J.W. Cock) [NHMUK, TL-59]
 Morne Bleu, Textel Installation, at light: ♂ 10.vii.1978 (M.J.W. Cock) [MJWC] (Fig. 16)
 Morne Cabrite, 10.792 -60.950: ♀ 5.ii.2021 (S. Frection photo) [iNaturalist observation 69386102]
 < 15 mi from Port of Spain, < 1,000 ft.: ♂ xii.1913-iv.1914 (F.W. Jackson) [OUMNH]
 St. Ann's: ♀ (H.A. Nurse) [MGCLB]
 Above St Benedict's, MVL: ♂ 26.v.1981 (M.J.W. Cock) [MJWC, genitalia 1109] (Appendix Fig. 2)
 Toco, 10.826 -60.933: ♂ (pinned) 7.vi.2022 (laineelston photo) [iNaturalist observation 120729526; DNA MJC_AM12;
 TAMUIC X0414589]
 Trinity Hills, by day: 24.xi.2013 (K. Sookdeo photo, moths30)
 Trinidad: ♀ iv-v.1902 (E. Bourke) [OUMNH]

***Cosmosoma achemon* (Fabricius, 1781)**

Curepe, BLT: ♂ 26.v-11.vi.1981 (F.D. Bennett) [MJWC] (Fig. 19); ♂ 22.i-10.ii.1982 (F.D. Bennett) [MJWC]
 Penal: ?♀ 4.iii.2014 (K. Sookdeo photo, moths 36) (Fig. 20)
 St Augustine: ♂ [AMNH not seen (Fleming 1957)]

***Cosmosoma auge* Linnaeus, 1767**

Curepe, MVL: ♀ x.1971 [UWIZM CABI.5436]
 Morne Bleu, Textel Installation, at light: ♂ 29.ix.1978 (M.J.W. Cock) [MJWC] (Fig. 21)
 North Coast Road, 6 miles, Carisal Trace, MVL: ♂ 5.iv.1979 (M.J.W. Cock) [MJWC]
 Palmiste: ♂ 6.ix.1948 [N. Lamont] [UWIZM.2013.13.1111, as *C. auge*]; ♂ 21.i.1949 [N. Lamont] [UWIZM.2013.13.1112,
 as *C. auge*]
 Penal: ?♂ 3.iii.2014 (K. Sookdeo photo, moths 36) (Fig. 22)
 Wa Samaki Ecosystems, east of Freeport, 10.44 -61.37: ♂ 19.vi.2021 (R. Deo photo) [iNaturalist observation 83775804]

***Cosmosoma bolivarensis* Klages, 1906**

Arima: ♀ 17.i.1938 [N. Lamont] [NMS]
 Arima Valley, Simla: 6♂, 3♀ [AMNH not seen (Fleming 1957)]
 Arima Valley, Simla, MVL: ♂ 7.viii.1981 (M.J.W. Cock) [UWIZM CABI.5471]
 Curepe, to *Heliotropium*: ♂ (slide CIBC/MJWC-20) 2-4.ix.1980 (M.J.W. Cock) [MJWC]; ♂ 7-13.xi.1980 (M.J.W. Cock)
 [MJWC, genitalia 1122] (Fig. 23)
 Curepe, MVL: ♂ 30.viii.1978 (M.J.W. Cock) [MJWC] (Fig. 23); ♀ 14.ix.1979 (M.J.W. Cock) [MJWC] (Fig. 24)
 < 15 mi from Port of Spain, < 1,000 ft.: 2♂ xii.1913-iv.1914 (F.W. Jackson) [OUMNH]
 Morne Bleu, Textel Installation, at light: ♂ 14.vii.1989 (R.G. Brown & T. Cassie) [UWIZM CABI.5472]
 [Palmiste]: ♂ [N. Lamont] [NMS]
 Penal: ?♀ 19.iv.2014 (K. Sookdeo photo, moths 41) (Fig. 25)
 St. Ann's Ridge: ♀ 28.iii.1979 (M.J.W. Cock) [MJWC]

Trinidad: ♂ [18]98 (W.J. Kaye) [MGCLB, ex coll. Kaye]; ♀ 1979 (M.J.W. Cock) [MJWC]
 TOBAGO, Englishman's Bay, at light: ♂ (very poor condition; unidentifiable were it not for Kelly's images) vi-xii. 2009,
 J. Ingraham [UWIZM.2015.15.112, M. Kelly photos 11609 et seq.]

***Cosmosoma gemmata* (Butler, 1876)**

TOBAGO, Nr. Speyside, MVL: ♂ 14-17.v.1982 (M.J.W. Cock) [MJWC] (Fig. 26)

***Cosmosoma hypocheilus* Hampson, 1898**

South Oropouche, Mon Desir, on flowers of *Austroeupeatorium inulaefolium*: ♀ 28.ix.2020 (T.P. Maharaj photo 6894) (Fig. 27)

***Cosmosoma klagesi* Rothschild, 1910**

Arima Blanchisseuse Road, milestone 10.5, MVL: ♀ 6.ix.1982 (M.J.W. Cock) [MJWC]
 Arima Blanchisseuse Road, milestone 10.5, Blanchisseuse Lookout, at light: ? 19.xi.2022 (R. Deo photo) [iNaturalist observation 142431336], (S. Tran photo) [iNaturalist observation 142456537]
 Arima Valley, Asa Wright Nature Centre: ♀ 7.xii.2019 (S.L. Williamson photo) [iNaturalist observation 36484831] (Fig. 30)
 Arima Valley, Simla: 51♂, 20♀ [AMNH not seen (Fleming 1957)]
 Arima Valley, Simla, MVL: ♀ 28.ii.1981 (M.J.W. Cock) [MJWC]; ♂ 18.iv.1981 (M.J.W. Cock) [MJWC, genitalia 1167] (Appendix Figs. 3, 26); ♂ (no head) 6.viii.1982 (M.J.W. Cock) [UWIZM CABI.5461]; ♂, ♀ 4.vi.1995 (M. Morais) [UWIZM CABI.5464, 5467]
 [Arima Valley], Simla, 250 ft.: ♀ (metathorax and abdomen missing) 31.iii.1989 (R.G. Brown) [UWIZM CABI.5465]
 Arima, Verdant Vale: ♂ September [MGCLB, ex coll. Kaye]
 Brasso Seco: ? 14.iii.2015 (K. Sookdeo photo, moths 62)
 Caparo: ♀ (F. Birch) [NHMUK]; ♂ (type, dissected) xi.1905 (S.M. Klages) [NHMUK]
 Cumaca Road, 4.6 miles, MVL: ♂ 21.x.1982 (M.J.W. Cock) [MJWC] (Fig. 28)
 Guaico: ♂ 18.iv.1915 [N. Lamont] [NMS]
 Manzanilla: ♂ 1922 (F.W. Jackson) [NMS, coll. Lamont]
 Morne Bleu, Textel Installation, at light: ♂ 3.vii.1978 (M.J.W. Cock) [UWIZM CABI.5463]; ? 30.viii.1978 (M.J.W. Cock) [NHMUK, TL-41]; ♀ 17.x.1979 (M.J.W. Cock) [UWIZM CABI.5466]
 Sangre Grande, Sans Souci Estate, MVL: ♂, ♀ 8.viii.1982 (M.J.W. Cock) [♀ MJWC; ♂ UWIZM CABI.5462] (Fig. 29)
 St. Ann's: ♂ (dissected) [NHMUK]
 Valencia Forest, MVL: ♂ 31.vii.1980 (M.J.W. Cock) [MJWC]

***Cosmosoma melathoracia* Kaye, 1901**

Arima Valley, Asa Wright Nature Centre: ♂ 23.iii.2015 (S. Nanz, photo 3507, 3509) (Fig. 34)
 Arima Valley, Simla: 6♂ [AMNH not seen (Fleming 1957)]
 Arima Valley, Simla, at light: ♂ i.2012 (D.J. Stradling photo SAM_4112)
 Arima Valley, Temple Village, at light: ?♂ 26.viii.2022 (S. Tran photo) [iNaturalist observation 132492489]
 Caparo: ♂ (F. Birch) [NHMUK]; ♂ xi.1905 (S.M. Klages) [NHMUK]; 2♂ xii.1905 (S.M. Klages) [NHMUK]
 Cumaca Road, 4.6 miles, MVL: 3♂, ♀ 18.vii.1981 (M.J.W. Cock) [♂, ♀ MJWC; 2♂ UWIZM CABI.5468, 5469] (Fig. 33)
 2 miles East of Maturita, MVL: ♀ 10.viii.1978 (M.J.W. Cock) [NHMUK, TL-42]
 Morne Bleu, Textel Installation, at light: ♂ 26.vi.1978 (M.J.W. Cock) [UWIZM CABI.5470]; ♀ 20.ix.1978 (M.J.W. Cock) [MJWC]; ♂ 9.xi.1978 (M.J.W. Cock) [MJWC, genitalia 1144] (Appendix Figs. 4, 27)
 Above Morne Cabrite, 10.796 -60.988, to *Heliotropium indicum* by night: 2♂ 20.xi.2021 (R. Deo photo) [iNaturalist observation 101645578, 101645959] (Fig. yy)
 Palmiste: ♀ 8.ix.1917 [N. Lamont] [NMS]
 Parrylands Oilfield, MVL: ♂ 25.vii.1981 (M.J.W. Cock) [MJWC]
 Rio Claro-Guayaguayare Road, milestone 6.5, MVL: 2♂, 2♀ 30.ix.1978 (M.J.W. Cock) [♂, 2♀ MJWC; ♂ NHMUK, TL-43] (Fig. 32)
 Sangre Grande, Sans Souci Estate, MVL: ♂ 8.viii.1982 (M.J.W. Cock) [MJWC] (Fig. 31)
 St. Augustine: ♀ 10.x.1924 (C.L. Withycombe) [NHMUK]
 Tabaquite: ♀ (type) (W.J. Kaye) [NHMUK]
 Trinidad: ♂ (F. Birch) [NHMUK]; ♀ [NHMUK]

***Cosmosoma pytna* Druce, 1906**

Caparo: ♂ (holotype) (F. Birch) [NHMUK]

Palmiste: ♀ 7.iii.1947 [N. Lamont] [UWIZM.2013.13.1113, as *C. xanthocera* Hampson]

Rio Claro-Guayaguayare Road, milestone 6.5, MVL: 2♂ 30.ix.1978 (M.J.W. Cock) [MJWC, NHMUK, TL-61] (Fig. 35, Appendix Fig. 5)

***Cosmosoma remota* (Walker, 1854)**

Curepe, BLT: ♂ v.1981 (F.D. Bennett) [MJWC]

Curepe, to *Heliotropium*: ♀ 3.x.1980 (M.J.W. Cock) [MJWC]

Curepe, MVL: ♂ (no abdomen) x.1970 (R. Cruttwell) [UWIZM CABI.5322]; ♂ xii.1970 (R. Cruttwell) [UWIZM CABI.5325]; ♂ ii.1971 (R. Cruttwell) [UWIZM CABI.5319]; ♀ ix.1971 [UWIZM CABI.5324]; ♂ xi.1972 [UWIZM CABI.5318]; 3♂ i.1973 [UWIZM CABI.5320, 5321, 5326]; ♀ 10.viii.1978 (M.J.W. Cock) [NHMUK, TL-39]; ♂ 15.viii.1978 (M.J.W. Cock) [NHMUK, TL-36]; ♂ 19.viii.1978 (M.J.W. Cock) [NHMUK, TL-37]; ♂ 22.viii.1978 (M.J.W. Cock) [MJWC] (Fig. 36); ♂ 24.viii.1978 (M.J.W. Cock) [NHMUK, TL-38]; ♀ 26.viii.1978 (M.J.W. Cock) [MJWC] (Fig. 37); ♂ 5.x.1978 (M.J.W. Cock) [MJWC, genitalia slide CIBC/MJWC-19]; ♀ 14-21.iii.1982 (M.J.W. Cock) [UWIZM CABI.5323]

Penal, at light: ♀ 7.xi.2013 (K. Sookdeo photo, moths 21) (Fig. 38)

Port of Spain, Hololo Mountain Road: ♂ 18.xi.2018 (bushmountainTT photo) [iNaturalist observation 18483478] (Fig. 38)

St. Ann's Ridge: ♀ 28.iii.1979 (M.J.W. Cock) [MJWC]

St. Augustine: ♀ 15.x.[19]13 (Guppy) [MGCLB, ex coll. Kaye]

TOBAGO, south of Black Rock: ♀ 31.vii.2020 (figtree photo) [iNaturalist observation 60005380] (Fig. 38)

TOBAGO, Englishman's Bay, at light: 2♂ (very poor condition; unidentifiable were it not for Kelly's photos) vi-xii. 2009, J. Ingraham [UWIZM.2015.15.113, 114; M. Kelly photos 11609 et seq.]

TOBAGO, Les Coteaux: ♂ 23.viii.2022 (wildlife_tobago photo) [iNaturalist observation 132156588]

TOBAGO, Nr. Speyside, MVL: 2♂ 14-17.v.1982 (M.J.W. Cock) [MJWC]

TOBAGO: ♂ [MGCLB, ex coll. Kaye]; ♀ 4.viii.1923 (L. Guppy) [MGCLB, ex coll. Kaye]

***Cosmosoma rubriscapulae* Kaye, 1901**

Arima Valley, AWNC: ? 14.ii.2017 (J. Muddeman, photo 1247)

Arima Valley, Simla: 3♂, 3♀ [AMNH not seen (Fleming 1957)]

[Arima Valley], Simla, 250 ft.: ♂ 3.v.1989 (R.G. Brown) [UWIZM CABI.5329]

Arima Valley, Simla, MVL: ♂ 30.vii.1981 (M.J.W. Cock) [MJWC]; ♀ 6.viii.1982 (M.J.W. Cock) [MJWC]

Brasso Seco: ♂ 14.iii.2015 (K. Sookdeo photo, moths 62)

Cumaca Road, 0.5 miles, MVL: ♀ 27.x.1980 (M.J.W. Cock) [MJWC]

Curepe, MVL: ♂ 16.viii.1978 (M.J.W. Cock) [MJWC] (Fig. 39); ♂ 20.x.1979 (M.J.W. Cock) [UWIZM CABI.5328]

Fort George: ♂ ix.1891 [NHMUK]

Morne Bleu, Textel Installation, at light: ♂ (no abdomen) 3.vii.1978 (M.J.W. Cock) [UWIZM CABI.5327]; ♀ 10.vii.1978 (M.J.W. Cock) [UWIZM CABI.5330]; ? 13.ix.1978 (M.J.W. Cock) [NHMUK, TL-40]; ♂ 20.xi.1978 (M.J.W. Cock) [MJWC]; 2♀ (1 with no abdomen or hindwings) 29.iii.1979 (M.J.W. Cock) [MJWC (Fig. 39); damaged UWIZM CABI.5331]

Morne Catherine, 10.714 -61.631, at light: ? 5.v.2022 (R. Deo photo) [iNaturalist observation 115722850] (Fig. 41)

Parrylands, at light: ♂ ii.1980 (J.O. Boos) [MJWC, genitalia 1143] (Appendix Figs. 6, 28)

Port of Spain: ♂ (F. Birch) [NHMUK]

Port of Spain, Belmont: ♂ (E. Lafond) [NHMUK]

St. Georges: ♀ ix.[18]91 [NHMUK]

Trinidad: ♀ (type) 1901 (W.J. Kaye) [NHMUK]; ♂ [NHMUK]

***Cosmosoma subflamma* (Walker, 1854)**

Arima Valley, Simla: ♂ [AMNH not seen (Fleming 1957)]

Curepe, to *Heliotropium* by night: ♂ 29.viii.1981 (M.J.W. Cock) [MJWC] (Fig. 42)

Lalaja Ridge, MVL: ♂ 3.ix.1982 (M.J.W. Cock) [MJWC, genitalia 1164] (Appendix Figs. 7, 29)

Palmiste: ♂ 28.v.1921 [N. Lamont] [NMS]

Penal: ?♂ 24.ix.2014 (K Sookdeo photo, moths 50) (Fig. 43)

Morne Bleu, Textel Installation, at light: ♂ 3.vii.1978 (M.J.W. Cock) [UWIZM CABI.5332]
 Talparo, Hacienda Jacana, 10.523 -61.276, at light: ?♂ (dead) 11.i.2022 (M. Hulme photo) [iNaturalist observation 104894731]
 Trinidad: ♀ (no head, half abdomen) [MGCLB ex coll. Kaye]

***Cosmosoma teuthras* Walker, 1854**

Inniss Field, MVL: ♂ 17.v.1999 (M.J.W. Cock) [MJWC] (Fig. 44)

***Dixophlebia holophaea* Hampson, 1909**

Arima Valley, Simla: 2♂ [AMNH not seen (Fleming 1957)]
 Grand Tacarib: ♂ 29.viii.2015 (K. Sookdeo photo, moths 78) (Fig. 45)

***Dycladia basimacula* Schaus, 1924**

Arima: ♂ 4.iii.1938 [N. Lamont] [NMS, as *D. correbioides*]
 Arima Valley, Simla: 4♂ [AMNH not seen (Fleming 1957)]
 Curepe, BLT: ♂ 1-20.iii.1982 (F.D. Bennett) [MJWC]
 Curepe, MVL: ♂ 23-31.x.1980 (M.J.W. Cock) [UWIZM CABI.5378]; ♂ 19-25.x.1981 (M.J.W. Cock) [MJWC] (Fig. 46);
 ♀ 21-31.i.1982 (M.J.W. Cock) [MJWC] (Fig. 47); ♂ 21-28.ii.1982 (M.J.W. Cock) [MJWC]
 Mt. Hope, 10.646 -61.420: ? 19.xi.2020 (bellbird20 photo) [iNaturalist observation 65242688]; ? 5.v.2021 (bellbird20 photo)
 [iNaturalist observation 77557912] (Fig. 48); ? 31.vii.2021 (bellbird20 photo) [iNaturalist observation 89396986]
 Rio Claro-Guayaguayare Road, milestone 6.5, MVL: ♂ 30.ix.1978 (M.J.W. Cock) [UWIZM CABI.5377]
 South Oropouche, Mon Desir, at light: ? 3.i.2022 (T.P. Maharaj photo) [iNaturalist observation 104319959]; ? 26.ii.2022
 (T.P. Maharaj photo) [iNaturalist observation 107757690]
 St. Pat[rick]'s: ♂ 8.iv.1934 [N. Lamont] [NMS, as *D. correbioides*]

***Heterodontia fenestrina* (Butler, 1876)**

Arima valley, Simla: 5♂, 4♀ [AMNH not seen (Fleming 1957) as *C. viridipunctatum*]
 Brasso Seco: ? 14.iii.2015 (K. Sookdeo photo, moths 62)
 Caparo: ♀ xii.1905 (S.M. Klages) [NHMUK]
 Cumaca Road, 4.6 miles, MVL: 3♂ 18.vii.1981 (M.J.W. Cock) [2♂ MJWC (Fig. 49); ♂ UWIZM CABI.5447]; ♂, ♀ 21.x.1982
 (M.J.W. Cock) [UWIZM CABI.5448, 7981]
 Grande Tacaribe: ♂ 30.viii.2014 (K. Sookdeo photo, moths 46)
 Inniss Field, MVL: 2♂, ♀ 17.v.1999 (M.J.W. Cock) [♂ MJWC; ♂, ♀ UWIZM CABI.7980, 7982]
 Inniss Field, 10.166 -61.265, at light: ♂ 13.i.2022 (R. Deo photo) [iNaturalist observation 104922382]; ♂ 29.iii.2022 (R.
 Deo photo) [iNaturalist observation 109852890]
 Inniss Field, 10.167 -61.264, by night: ♂ 18.vii.2021 (R. Deo photo) [iNaturalist observation 87936944] (Fig. 52)
 Morne Bleu, Textel Installation, at light: ♀ 3.vii.1978 (M.J.W. Cock) [MJWC] (Fig. 50)
 Tabaquite: 2♀ (1♀ with dorsolateral metallic green markings, Fig. 51) [NHMUK]
 Valencia Forest, MVL: 2♂, ♀ 5.viii.1981 (M.J.W. Cock) [♂, ♀ MJWC; ♂ UWIZM CABI.5446]
 Trinidad: ♀ x-xii.1920 (A. Hall) [NHMUK, as *C. fenestrina*]

***Histioea cepheus* (Cramer, 1780)**

Arima Valley: ♀ ix.2021 (S. Alston-Smith) [MJWC, DNA-498]
 Arima Valley, Asa Wright: ♂ 7.v.2007 (I. Woiwod photo); ? 29.i.2009 (gavin_miller photo) [iNaturalist observation 50324196];
 ♀ 21.ix.2013 (K. Sookdeo photo, moths 16); ? 7.xi.2016 (P. Sullivan photo) [iNaturalist observation 19677104] (Fig. 56);
 ? 11.ii.2017 (J. Muddeman, photo 0501); ? 9.x.2017 (tlaloc27 photo) [iNaturalist observation 8434747]; ?♂ 11.xii.2018
 (C.D. Jones) [iNaturalist observation 19853486]; ?♂ 20.xii.2018 (N. Norman photo) [iNaturalist observation 19124179];
 ?♂ 28.xii.2018 (C. Harrison photo) [iNaturalist observation 19267665]; ?♂ 6.xii.2019 (S.L. Williamson photo) [iNaturalist
 observation 36408090]; ♂ 17.xii.2019 (N. Norman photo) [iNaturalist observation 36739336]; ? 26.xii.2019 (M. McFarlane
 photo) [iNaturalist observation 38065306]; ?♂ 27.iv.2019 (Kirsten photo) [iNaturalist observation 38182020]
 [Arima Valley], Simla, 250 ft.: ♂ 1.v.1989 (R.G. Brown) [UWIZM CABI.5486]
 Arima Valley, Simla: 2♂ i.2021 (S. Alston-Smith) [MJWC, DNA-499, -500] (Fig. 55); ♂ ix.2021 (S. Alston-Smith) [MJWC,
 DNA-498, BIN BOLD:AAF0772] (Fig. 54); ♂ 1.x.2021 (S. Alston-Smith) [MJWC, DNA-493]

Arima Valley, Simla, at light: ?♂ i.2012 (D.J. Stradling photo SAM_3723); ? 28.vi.2004 Arima Valley, Simla, at light: ♂ 28.vi.2004 (M.G. Rutherford photo) [iNaturalist observation 52035953]; ? 6.vii.2004 (M.G. Rutherford photo) [iNaturalist observation 52035982]; ♀ xii.2020 (S. Alston-Smith) [MJWC, DNA-501, sequencing failed] (Fig. 53)
 Arima Valley, Simla, MVL: ♂ 6.viii.1982 (M.J.W. Cock) [UWIZM CABI.5488]; ♂ 4.vi.1995 (M. Morais) [UWIZM CABI.5489]
 Arima Valley, Temple Village, at light: ♂ 17.xi.2022 (S. Tran photo) [iNaturalist observation 142302187], (E. Buhr photo) [iNaturalist observation 142395753]
 Brasso Seco: ? 14.iii.2015 (K. Sookdeo photo, moths 62); ? 24.xii.2019 (R. Deo photo) [iNaturalist observation 36929187]
 Brasso Seco, at light: ♂ 4.vi.2022 (R. Deo photo) [iNaturalist observation 120364986]
 Caura Valley, Nr. Caura, MVL: ♂ 24.ix.1978 (M.J.W. Cock) [MJWC]
 Curepe, MVL: ♂ 11.viii.1978 (M.J.W. Cock) [UWIZM CABI.5487]
 Maraval: 2♂ [OUMNH, ex Doncaster coll.]; ♂, ♀ [MGCLB, ex coll. Kaye]
 Morne Bleu, Textel Installation, at light: ♂ 20.ix.1978 (M.J.W. Cock) [MJWC]; ♂ 14.xii.1980 (M.J.W. Cock) [MJWC]
 Palmiste: ? 10.xi.1947 [N. Lamont] [UWIZM.2013.13.1016]; ? 5.ix.1948 [N. Lamont] [UWIZM.2013.13.1017]; ? 22.iii.1949 [N. Lamont] [UWIZM.2013.13.1015]
 P[ort] of S[pain], Savannah: 21.xi.1920 (W.J. Kaye) [MGCLB, ex coll. Kaye]
 South Oropouche, Mon Desir, at light: ? 5.xii.2021 (T.P. Maharaj photo) [iNaturalist observation 102581100]; ? 23.i.2022 (T.P. Maharaj photo) [iNaturalist observation 105470386]
 St. Ann's: ♀ [19]06 (G.E. Tryhane) [MGCLB, ex coll. Kaye]
 St. Ann's River: ♀ 26.ii.1932 (Guppy) [NMS, coll. Lamont]
 Trinidad: ♂ (Broadway) [NHMUK]; ♀ (W.J. Kaye) [NHMUK]; ♂ [OUMNH, ex Doncaster coll.]; ♀ 1914 (W. Buthn) [NMS, coll. Lamont]; ♂ [MGCLB, ex coll. Kaye]; ♀ (W. Buthn) [MGCLB, ex coll. Kaye]

***Histioea meldolae meldolae* Butler, 1876**

Arima Valley, Simla: 3♂, 3♀ [AMNH not seen (Fleming 1957)]
 Brigand Hill, lighthouse security MVL lights: ♀ 28.iii.2003 (M.J.W. Cock) [MJWC]
 Caparo: ♀ (F. Birch) [NHMUK]
 Curepe, MVL: ♂ 3.x.1979 (M.J.W. Cock) [UWIZM CABI.5509]
 Hollis Reservoir: ♂ 2.ix.1978 (M.J.W. Cock) [MJWC] (Fig. 57)
 Morne Bleu, Textel Installation, at light: ♂ 30.viii.1978 (M.J.W. Cock) [MJWC]
 Palmiste: ? iii.1915 [N. Lamont] [UWIZM.2013.13.1014]; ? (not seen) 8.viii.1917 [N. Lamont] [NMS]; ? (not seen) 29.ix.1917 [N. Lamont] [NMS]; ♀ 22.x.1918 [N. Lamont] [NMS]; ♀ 3.iii.1919 [N. Lamont] [NMS]; ? 2.i.1922 [N. Lamont] [UWIZM.2013.13.1013]; ? 1.iii.1938 [N. Lamont] [UWIZM.2013.13.1012]; ? 6.v.1939 [N. Lamont] [UWIZM.2013.13.1011]
 Parrylands Oilfield, MVL: ♂, ♀ 25.vii.1981 (M.J.W. Cock) [MJWC] (Fig. 58)
 Rock Penal and Moruga Roads, forest roadside: ♀ 25.ix.1917 (R.W. Farmborough) [OUMNH]
 St. Ann's: ♀ 20.xi.1915 [N. Lamont] [NMS]
 Trinidad: ♂ (Lowsley) [NHMUK]; ♀ [OUMNH, ex W.W. Saunders coll.]; ♂ [OUMNH, ex Doncaster coll.]; 2♂ [MGCLB, ex W.J. Kaye coll.]

***Homoeocera magnolimbata* Dognin, 1911**

Moreau: ♀ 2.iii.1938 [N. Lamont] [NMS] (Fig. 59)
 Rock Penal and Moruga Roads, forest roadside: ♀ 25.ix.1917 (R.W. Farmborough) [OUMNH]
 S. Anns: ♂ 21.x.[18]99 [MGCLB, ex coll. W.J. Kaye]
 Trinidad: ♂ 1909 [NHMUK] (Fig. 59)

***Hypocharis arimensis* (Fleming, 1957)**

Arima Blanchisseuse Road, milestone 10.5, MVL: ♂ 6.ix.1982 (M.J.W. Cock) [UWIZM CABI.1009]
 Arima Valley, Simla: ♂ (paratype) 13.ii.1953 [NHMUK]
 Brigand Hill, lighthouse security MVL lights: ♂ 28.iii.2003 (M.J.W. Cock) [MJWC]; ♂, ♀ 17.i.2004 (M.J.W. Cock) [MJWC, genitalia 1145] (Appendix Figs. 8, 30)
 Caparo: ♀ (F. Birch) [NHMUK, as *S. lacteata*]; ♂, ♀ (no head) (S.M. Klages) [NHMUK, as *S. lacteata*]
 Cumaca Road, 0.5 miles, MVL: ♂ 27.x.1980 (M.J.W. Cock) [MJWC]
 Inniss Field, MVL: 2♂ 17.v.1999 (M.J.W. Cock) [MJWC; UWIZM CABI.7955] (Fig. 60)

Lalaja Ridge, MVL: ♂ 3.ix.1982 (M.J.W. Cock) [MJWC]
 Manzanilla: ♂ ii.1922 (F.W. Jackson) [AME, ex coll. Kaye, as *Saurita lacteata*]
 Morne Bleu, Textel Installation, at light: ? 20.ix.1978 (M.J.W. Cock) [NHMUK, TL-62]
 Mt. Harris: ♂ (C.L. Withycombe) [NHMUK, as *S. lacteata*]
 North Coast Road, 6 miles, Carisal Trace, MVL: ♂ 5.iv.1979 (M.J.W. Cock) [UWIZM CABI.1012]
 Palmiste: ♀ (no abdomen) 11.ii.1921 [N. Lamont] [NMS, as *S. lacteata*]; ♂ 23.iii.1922 [N. Lamont] [NMS, as *S. lacteata*];
 ♂ 8.ii.1926 (W.J. Kaye) [AME, ex coll. Kaye, as *Saurita lacteata*]; 2♂ 14.ii.1926 (W.J. Kaye) [AME, ex coll. Kaye, as
Saurita lacteata]; ? 20.xi.1929 [NMS, as *S. lacteata*; not seen]; ? 21.xii.1929 [NMS, as *S. lacteata*]; ♂ 23.xii.1929 [AME,
 ex coll. Kaye, as *Saurita lacteata*]; ♂ 30.xii.1929 [N. Lamont] [AME, ex coll. Kaye, as *Saurita lacteata*]; ♂ 19.i.1930
 [N. Lamont] [NMS, as *S. lacteata*]; ♂ 23.iii.1947 [N. Lamont] [UWIZM.2013.13.1044, as *S. lacteata*]; ♂ 9.iv.1947 [N.
 Lamont] [UWIZM.2013.13.1043, as *S. lacteata*]; ♂ 13.vi.1947 [N. Lamont] [UWIZM.2013.13.1046, as *S. lacteata*]; ♀
 24.ii.1948 [N. Lamont] [UWIZM.2013.13.1045, as *S. lacteata*]; ♂ 17.vii.1949 [N. Lamont] [UWIZM.2013.13.1047, as
S. lacteata]
 Parrylands Oilfield, MVL: ♂ 13.xi.1980 (M.J.W. Cock) [UWIZM CABI.1011]; ♂ 25.vii.1981 (M.J.W. Cock) [UWIZM
 CABI.7983]
 Penal, at light: ♂ 24.i.2014 (K. Sookdeo photo, moths 30) (Fig. 62)
 South Oropouche, Mon Desir: ♂ 9.i.2022 (T.P. Maharaj photo) [iNaturalist observation 104683497]
 Rio Claro-Guayaguayare Road, milestone 6.5, MVL: 2♀ 30.ix.1978 (M.J.W. Cock) [MJWC] (Fig. 61)
 Tabaquite: ♂ ii [AME, ex coll. Kaye, as *Saurita lacteata*]
 Valencia Forest, MVL: ♂ iv.1980 (M.J.W. Cock) [UWIZM CABI.1010]

***Hypocharis clusia* (Druce, 1897)**

Arima: ♀ 5.ii.1938 [N. Lamont] [NMS]
 Arima Valley, Asa Wright Centre: ♂ 5.iii.2018 (G. Barrett photo) [iNaturalist observation 107614385] (Fig. 65)
 Arima Valley, Simla, MVL: ♂ (no abdomen) 15.ii.1981 (M.J.W. Cock) [UWIZM CABI.1025]
 Arima Blanchisseuse Road, milestone 9.75, MVL: ♂ 21.ix.1982 (M.J.W. Cock) [UWIZM CABI.7978]
 Balandra: ♂ viii.1976 (F.D. Bennett) [UWIZM CABI.1027]
 Brigand Hill, lighthouse security MVL lights: 2♂, ♀ 28.iii.2003 (M.J.W. Cock) [MJWC] (Fig. 63); ♂ 17.i.2004 (M.J.W.
 Cock) [MJWC]; ♂ 18.xii.2022 (R. Deo photo) [iNaturalist observation 144651001]
 Caparo: ♂ (S.M. Klages) [NHMUK]
 Curepe, MVL: ♂ ix.1970 (F.D. Bennett) [UWIZM CABI.1028]
 Inniss Field, MVL: 4♂ 17.v.1999 (M.J.W. Cock) [♂ MJWC; 3♂ UWIZM CABI.7975, 7976, 7977]
 Manzanilla: ♂ 22.iii.1922 (F.W. Jackson) [AME, ex coll. Kaye]
 Manzanilla, 100 ft.: ♂ 22.iii.1922 (F.W. Jackson) [AME, ex coll. Kaye]
 Morne Bleu, Textel Installation, at light: ♂ 2.iii.1981 (M.J.W. Cock) [UWIZM CABI.1026]
 Palmiste: ♂ 4.xi.1929 [N. Lamont] [NMS]; ♂ 26.xii.1929 [N. Lamont] [NMS]; ♂ 7.iii.1947 [N. Lamont] [UWIZM.2013.13.1029];
 ♀ 4.x.1947 [N. Lamont] [UWIZM.2013.13.1028]; ♀ 24.iv.1948 [N. Lamont] [UWIZM.2013.13.1026]; ♂ 9.viii.1948 [N.
 Lamont] [UWIZM.2013.13.1027]
 Parrylands Oilfield, MVL: 2♂ 13.xi.1980 (M.J.W. Cock) [MJWC; UWIZM CABI.1029]
 P[ort] O[f] S[pain]: ♀ 1932 (A. Hall) [AME, ex coll. Kaye]
 Rio Claro-Guayaguayare Road, milestone 6.5, MVL: ♀, ? 30.ix.1978 (M.J.W. Cock) [♀ MJWC; ? NHMUK, TL-66]
 Nr Sangre Grande, Caigual: ♂ viii.1917 (Mrs H. Turner) [OUMNH, labelled *Hypocharis clusia* in W.J. Kaye's writing]
 St. Ann's: ♂ [AME, ex coll. Kaye]
 St. Annes Valley: ♀ i.1922 (F.W. Jackson) [AME, ex coll. Kaye]
 Valencia Forest, MVL: ♂ iv.1980 (M.J.W. Cock) [MJWC]; ♀ 5.viii.1981 (M.J.W. Cock) [MJWC] (Fig. 64)
 Trinidad: ♂ 1928 (F.W. Jackson) [OUMNH]; ♂ i.1901 (Miller) [AME, ex coll. Kaye]

***Hypocharis tenebrosa* Cerda, 2017**

Arima Valley, Simla, MVL: ♀ 6.viii.1982 (M.J.W. Cock) [MJWC] (Fig. 66)
 Brasso Seco, 10.740 -61.256, by day: ?♀ 16.iv.2022 (A. Deacon photo) [iNaturalist observation 111996965] (Fig. 67)

***Isanthrene tryhanei* Rothschild, 1911**

Morne Bleu - Morne Brule Ridge, 1/4 mi. S. of Lalaja South Road [Lalaja Ridge]: ♀ 5.iii.1979 (M.J.W. Cock) [MJWC] (Fig. 68B)

St. Anns: ♀ (type) (F.E. Tryhane) [NHMUK] (Fig. 68A)

Tucker Valley, Bamboo Cathedral, 10.737 -61.612: ? caught by *Trichonephila clavipes* spider 20.viii.2022 (B. Ramdeen photo) [iNaturalist observation 131662148] (Fig. 69)

***Leucotmemis nexa* (Herrich-Schäffer, 1854)**

Palmiste: ♂ 9.i.1917 [N. Lamont] [NMS]

Rock[-Penal Road]: ♂ 1.i.1918 [N. Lamont] [NMS]

Rock-Penal Road: ♂ 14.i.1921 (W.J. Kaye) [MGCLB, ex coll. Kaye] (Fig. 70)

Siparia, Palo Seco, mostly cacao: ♀ 14.i.1917 (R.W. Farmborough) [OUMNH] (Fig. 70)

***Loxophlebia bisigna* (Kaye, 1911)**

Arima Valley, Simla, MVL: ♂ 6.viii.1982 (M.J.W. Cock) [MJWC]

Arima Valley, Temple Village, at light: ♂ 2.xi.2022 (S. Tran photo) [iNaturalist observation 140923314]

Aripo Savannah: ♂ 26.xi.1979 (M. Alkins) [UWIZM.2014.9.1309]

Las Lomas, Spanish Farm, to Heliotropium: ♂ 12.x.1980 (M.J.W. Cock) [MJWC]

Parrylands Oilfield, to Heliotropium: ♂ 7.xi.1980 (M.J.W. Cock) [MJWC] (Fig. 71)

Parrylands Oilfield, MVL: ♀ 25.vii.1981 (M.J.W. Cock) [MJWC] (Fig. 72)

Penal, at light: ♂ 18.iv.2014 (K. Sookdeo photo, moths 41) (Fig. 73)

South Oropouche, Mon Desir, at light: ♀ 2.ii.2022 [iNaturalist observation 106047978]

Wa Samaki Ecosystems, east of Freeport, 10.44 -61.37: ? 20.vi.2021 (R. Deo photo) [iNaturalist observation 83823093]

***Loxophlebia diaphana* (Sepp, 1848)**

Bush Bush Island, to *Heliotropium indicum*: ♂ 7.iv.2022 (R. Deo photo) [iNaturalist observation 110744381]

Carapachaima, 10.477 -61.437: ♂ (12.49 p.m.) 6.ix.2020 (R. Deo photo) [iNaturalist observation 58837939] (Fig. 76)

Maracas Bay, to *Heliotropium* by day: ♂ 29.iii.2003 (M.J.W. Cock) [MJWC] (Fig. 74)

[Palmiste]: ♂ [N. Lamont] [NMS, K. Bland pers. comm.]

Palmiste: ♂ 12.i.1921 [N. Lamont] [NMS]; ♀ 17.i.1922 [N. Lamont] [NMS, as *Mesotheren aurantegula* Jones]; ♀ 15.xi.1931

[N. Lamont] [MGCLB, ex coll. Kaye, as *Loxophlebia crocata* HS]

Parrylands Oilfield, to *Heliotropium*: 3♂, 2♀ 7.xi.1980 (M.J.W. Cock) [MJWC] (Fig. 75)

TOBAGO, Nr. Speyside, MVL: ♂ 14–17.v.1982 (M.J.W. Cock) [MJWC]

***Loxophlebia postflavia* Druce, 1898**

[Arima valley, Simla]: 2 [AMNH not seen (Fleming 1957)]

***Macrocneme aurifera* Hampson, 1914**

Examined / labelled by Dietz:

Arima Valley, Simla: ♂ (holotype of *M. spinivalva*) (AMNH 2022)

Fort George: ♂ ix.1891 [NHMUK, det as *M. spinivalva* by Dietz]

Maracas Valley: ♂ 15.iii.1922 [F.W. Jackson] [NHMUK, det as *M. spinivalva* by Dietz]

Mt. Tucuchi [sic], 2-3000 ft.: ♂ 17.i.1924 (Dr S.A. Neave) [NHMUK, det as *M. spinivalva* by Dietz]

St. Ann's Valley: 3♂, ♀ [NHMUK, det as *M. spinivalva* by Dietz]; ♂ vi.1902 (paratype of *M. spinivalva*) [NHMUK]

St. George's: ♂ ix.[18]91 [NHMUK, det as *M. spinivalva* by Dietz]

Tabaquite: ♀ [NHMUK, det as *M. spinivalva* by Dietz]

Trinidad: ♂ (F.W. Jackson) [NHMUK, det as *M. spinivalva* by Dietz]

Trinidad: 2♂, ♀ (paratypes of *M. spinivalva*) [NHMUK]; ♀ (paratype of *M. spinivalva*) ii.1930 (A. Hall) [NHMUK]

Checked by genitalia:

[Port of Spain], Upper Lady Chancellor Road: ♂ 28.i.1979 (M.J.W. Cock) [MJWC, genitalia 1165] (Fig. 80, Appendix Fig. 9)

Needing confirmation:

Maraval: ♀ [OUMNH, as Doncaster coll., as *M. lades* Cram.]
 Trinidad: ♂ iv-v.1902 (E. Bourke) [OUMNH]
 Trinidad: ♀ [OUMNH, as *M. thyra*]

Probably misidentified as *M. aurifera*:

Ariapite Valley: ♀ (paratype of *spinivalva* Fleming) vi.1902 [NHMUK, probably *M. aurata* (i.e. *M. lades*) according to Dietz]
 Trinidad: ♀ (paratype of *spinivalva* Fleming) 1921-1922 (Dr. Jackson) [NHMUK, probably *M. lades* according to Dietz]
 Trinidad: 3♀ (paratype of *spinivalva* Fleming) [NHMUK, probably *M. aurata* (i.e. *M. lades*) according to Dietz]
 Trinidad: ♀ (paratype of *M. spinivalva*) xi.1920 (F. Shade) [NHMUK, probably *M. intacta* (i.e. *M. thyra*) according to Dietz];
 ♀ (paratype of *M. spinivalva*) [NHMUK, probably *M. intacta* (i.e. *M. thyra*) according to Dietz]

***Macrocneme lades* (Cramer, 1776)**

Examined / labelled by Dietz:

Ariapite Valley: ♂ vi.1902 [NHMUK, det. Dietz]; ♀ (paratype of *spinivalva* Fleming) vi.1902 [NHMUK, det. as probably *M. aurata* (i.e. *lades*) by Dietz]
 Caparo: ♂ xi.1905 (S.M. Klages) [NHMUK, det as *aurata* by Dietz]
 Ariapite Valley: ♀ vi.1902 [NHMUK, det as *aurata* by Dietz]
 Manzanilla, 50 ft.: ♂ 10.i.1928 (F.W. Jackson) [OUMNH, det as *aurata* by Dietz]; ♀ 12.i.1928 (F.W. Jackson) [OUMNH, det as *aurata* by Dietz]
 Port of Spain: ♀ (F. Birch) [NHMUK, det as *aurata* by Dietz]
 St. Ann's Valley: 2♂ [NHMUK, det. Dietz]
 St Anns Vall., 400 ft.: ♂ i.1922 (F.W. Jackson) [OUMNH, det as *M. lades* by Dietz]
 St Anns Vall., 600 ft.: ♀ xii.1921 (F.W. Jackson) [OUMNH, det as *M. lades* by Dietz]
 Trinidad: 2♀ [NHMUK, det as *aurata* Walker by Dietz]; ♂ (W.J. Kaye) [NHMUK, det. Dietz]; ♀ [NHMUK, det. Dietz];
 3♀ (paratype of *spinivalva* Fleming) [NHMUK, det. as probably *aurata* (i.e. *lades*) by Dietz]; ♀ (paratype of *spinivalva* Fleming) 1921-1922 (Dr. Jackson) [NHMUK, det. As probably *M. lades* by Dietz]

Checked by genitalia and/or DNA barcode:

Curepe, MVL: ♂ 23.ix.1979 (M.J.W. Cock) [MJWC]; ♂ 1.x.1979 (M.J.W. Cock) [MJWC] (Fig. 81); 23.xii.1979 (M.J.W. Cock) [MJWC]
 Las Cuevas Bay, Swamp behind beach: ♂ 17.i.2004 (M.J.W. Cock) [MJWC]
 Parrylands, on flowers of *Austroepatorium*: ♂ 29.ix.2019 (J. Morrall) [MJWC, genitalia 1146, DNA 358; BOLD:AAA1397 same BIN as *M. thyra* but in distinct cluster] (Fig. yy, Appendix Figs. 10, 31)

Needing confirmation / assumed:

Agostini, 10.482 -61.396: ?♂ 26.i.2022 (Avinash photo) [iNaturalist observation 105633165, 105633166]
 Blanchisseuse: ♂, ♀ (in copulo) 20.xi.2021 (G. White photo 101651) (Fig. 84)
 Brigand Hill: ♂ 14.v.1989 (R.G. Brown & T. Cassie) [UWIZM CABI.7962]
 Curepe, MVL: ♂ ix.1971 [UWIZM CABI.7964]; ♂ 7.viii.1978 (M.J.W. Cock) [UWIZM CABI.7965]; ♂ 16.ix.1979 (M.J.W. Cock) [UWIZM CABI.7963]
 Palmiste: ♀ 1.x.1916 [N. Lamont] [NMS, as *M. lades*]; ♀ 24.ii.1938 [N. Lamont] [UWIZM.2013.13.1064, as *Macrocneme lades*]; ♀ 26.v.1948 [N. Lamont] [UWIZM.2013.13.1068, as *Macrocneme eacus*]
 Parrylands Oilfield, MVL: ♀ (*Eupatorium* flowers) 16.x.1980 (M.J.W. Cock) [MJWC] (Fig. 82)
 Penal, at light: ♂ 13.xii.2014 (K. Sookdeo photo, moths 86) (Fig. 83)
 South Oropouche, Mon Desir, on flowers of *Varronia curassavica*: ? 9.iii.2021 [iNaturalist observation 70904256]
 St. Augustine: 2♂ 1.i.1976 (D.J. Stradling) [UWIZM.2014.9.85, 86]
 Wa Samaki Ecosystems, east of Freeport, 10.44 -61.37: ♂ 19.vi.2021 (R. Deo photo) [iNaturalist observation 83772404]
 Trinidad: ♂, ♀ iv-v.1902 (E. Bourke) [OUMNH]; ♀ [OUMNH, ex W.W. Saunders coll., as *M. lades*]
 [Trinidad]: ♂ [N. Lamont] [UWIZM.2013.13.1069, as *Macrocneme eacus*]
 'Trinidad or Venezuela': ♀ (right F detached, on pin) (F.W. Jackson) [OUMNH]

***Macrocneme thyra* Möschler, 1883**Examined / labelled by Dietz:

Ariapite Valley: ♂, ♀ vi.1902 [NHMUK, det as *intacta* by Dietz]

Fort George: ♂, ♀ ix.1901 [NHMUK, det as *intacta* by Dietz]

Guaico, 150 ft.: ♂ (F.W. Jackson) [OUMNH, det as *intacta* by Dietz]

Hololo Mountain Road: ♀ i.1922 (F.W. Jackson) [OUMNH, det as *intacta* by Dietz]; ♂ i.1928 (F.W. Jackson) [OUMNH, det as *intacta* by Dietz]

Hololo Mountain Road, 1000 ft.: ♂ 25.i.1928 (F.W. Jackson) [OUMNH, det as *intacta* by Dietz]

Port of Spain: ♂ x.1901 [NHMUK, det as *intacta* by Dietz]

Port of Spain, Caparo Valley: ♀ i.[18]97 (Dr. Rendall) [NHMUK, det as *intacta* by Dietz]

St. Ann's: ♀ 4.iv.1924 [NHMUK, det as *intacta* by Dietz]

St. Ann's Valley: ♂, 3♀ [NHMUK, det as *intacta* by Dietz]

St. Augustine: 1.i.1926 (C.L. Withycombe) [NHMUK, det as *intacta* by Dietz]

St. George's: ♂, 2 ix.[18]91 [NHMUK, det as *intacta* by Dietz]; ♂ xi.1891 (C.W. Ellacombe) [NHMUK, det as *intacta* by Dietz]

Trinidad: ♂ (type of *intacta* Draudt) (Caracciolo) [NHMUK]; ♂ (W.J. Kaye) [NHMUK, det. Dietz]; ♂ (Guppy) [NHMUK, det as *intacta* by Dietz]; ♂ (W.J. Kaye) [NHMUK, det as *intacta* by Dietz]; 2♂ [NHMUK, det as *intacta* by Dietz]; ♀ (paratype of *M. spinivalva*) [NHMUK, det. as probably *M. intacta* (i.e. *thyra*) by Dietz]; ♀ (paratype of *M. spinivalva*) xi.1920 (F. Shade) [NHMUK, det. as probably *M. intacta* (i.e. *thyra*) by Dietz]; ♂ 1922 (F.W. Jackson) [OUMNH, det as *intacta* by Dietz]

Trinidad or Venezuela: ♂ (abdomen loose) (F.W. Jackson) [OUMNH, det as *intacta* by Dietz]

TOBAGO: ♀ 1-4.ii.1931 (Capt. A.K. Totton) [NHMUK, det as *intacta* by Dietz]

Checked by genitalia and / or DNA barcode:

Trinidad, W.I., Arima Valley, near Asa Wright Nature Centre: ♂ 27.ix.2022 (J. Morrall) [MJWC]

Cumaca Road, 0.5 miles, MVL: 2♂ 27.x.1980 (M.J.W. Cock) [MJWC]

Cumaca Road, 4.6 miles, MVL: ♂ 18.vii.1981 (M.J.W. Cock) [MJWC] (Fig. 85); 2♂ 21.x.1982 (M.J.W. Cock) [UWIZM CABI.5491, 5493]

Lalaja, on eupatorium flowers: 3♂, 3♀ 28.ix.2019 (J. Morrall) [MJWC, DNA 349-354, genitalia 1147] (Fig. 85–86, Appendix Figs. 11, 32)

Lalaja South Road: ♀ (at *Eupatorium* flowers) 25.ix.1982 (M.J.W. Cock) [MJWC]

Morne Bleu, Textel Installation, at light: ♂ 26.vi.1978 (M.J.W. Cock) [MJWC] (Fig. yy); ♂ 9.xi.1978 (M.J.W. Cock) [MJWC]

Parrylands Oilfield, MVL: ♂ 13.xi.1980 (M.J.W. Cock) [MJWC]

Needing confirmation:

Arima: ♂ 19.xi.1937 [N. Lamont] [UWIZM.2013.13.1065, as *Macrocneme eacus*]; ♂ 1.iv.1938 1.iv.1938 [N. Lamont] [UWIZM.2013.13.1067, as *Macrocneme eacus*]

Arima Blanchisseuse Road, milestone 9.75, MVL: ♀ (M.J.W. Cock) [MJWC] (Fig. yy)

Arima Blanchisseuse Road, milestone 9.75, Textel Road: ♀ (at *Eupatorium* flowers) 5.x.1979 (M.J.W. Cock) [MJWC]

Arima Valley, Asa Wright Nature Centre, at light: ?♀ 6.iii.2007 (S. Daniel photo) [iNaturalist observation 69962122]; ♂ 17.iii.2008 (S. Daniel photo) [iNaturalist observation 70105143] (Fig. 87)

Arima Valley, Simla, MVL: 2♂ 4.vi.1995 (M. Morais) [UWIZM CABI.7968, 7969]

Cumaca Road, 4.6 miles, MVL: 2♂ 21.x.1982 (M.J.W. Cock) [UWIZM CABI.5491, 5493]

Cuare Valley: ♂ 18.i.1980 (M.J.W. Cock) [UWIZM CABI.5492]

Guaico: ♂ 18.iv.1915 [N. Lamont] [NMS, as *M. thyra*]

Maupertuis: ♀ 16.iii.1922 [N. Lamont] [NMS, as *M. lades*]

Morne Bleu, Textel Installation, at light: ♀ 4.ii.1979 (M.J.W. Cock) [UWIZM CABI.5495]; ♂ 6.xii.1980 (M.J.W. Cock) [UWIZM CABI.5494]

Parrylands Oilfield, at light: ♂ ii.1980 (J.O. Boos) [UWIZM CABI.7971]

Parrylands Oilfield, MVL: 2♂ 13.xi.1980 (M.J.W. Cock) [2♂ UWIZM CABI.5490, 7967]; ♂ 25.vii.1981 (M.J.W. Cock) [UWIZM CABI.7966]

Toco, 10.826 -60.933, at light: 2♂ (pinned) 10.vi.2022 (laineelston photo) [iNaturalist observation 121168709, DNA MJC_AM2, TAMUIC X1700799; 121168896, MJC_AM1, TAMUIC X1615630]
 Trinity Hills, Morne Derrick, *C. odorata* flowers: ♀ 29.xii.1981 (M.J.W. Cock) [UWIZM CABI.7970]
 Trinidad: ♂ [OUMNH, ex coll. Doncaster, handwritten label *M. lades* Cram.]; ♂, 2♀ [OUMNH, ex coll. Doncaster, as *M. lades*] [Trinidad]: ♂ [N. Lamont] [UWIZM.2013.13.1066, as *Macrocneme eacus*]

***Macrocneme thyridia* Hampson, 1898**

Examined / labelled by Dietz:

Port of Spain, Emperor's Valley: ♀ (left forewing detached, on pin) 7.i.1913 (G.B. Longstaff) [OUMNH, det. as *M. lades* by G.B. Longstaff]

We have not located these specimens listed by Dietz (1994): Ariapite Valley [NHMUK]; Fondes Amandes [NHMUK]; St Anns Valley [NHMUK, USNM]; Trinidad (Kaye) [NHMUK]

Checked by genitalia:

Curepe, MVL: ♂ 29.v.1979 (M.J.W. Cock) [MJWC]; ♂ 2.xi.1979 (M.J.W. Cock) [MJWC, genitalia 1166] (Fig. 88, Appendix Fig. 12)

Needing confirmation:

Arima Valley, Simla, MVL: ♀ 28.ix.1981 (M.J.W. Cock) [MJWC] (Fig. 89)

Curepe, MVL: ♂ 1970s (F.D. Bennett) [UWIZM CABI.7972]; ♂ xi.1970 (F.D. Bennett) [UWIZM CABI.7973]

Palmiste: ♂ 12.i.1922 [N. Lamont] [NMS, as *M. lades*]

Trinidad: ♂ [OUMNH, as *M. adonis* Druce]; ? iv-v.1902 (E. Bourke) [OUMNH] (tentative ID)

***Macrocneme* sp(p). unresolved**

Brasso Seco: ? 14.iii.2015 (K. Sookdeo photo, moths 62)

Maraval: ♀ [MGCLB, ex coll. Kaye, as *Macrocneme lades*]

Mitan, ♀ 9.ii.1922 [N. Lamont] [NMS, as *M. lades*]

Palmiste: ? 20.i.1922 [N. Lamont] [NMS, as *M. lades*; not seen]

P[ort] of Spain: 2♂ [19]04 [MGCLB, ex coll. Kaye] St. Ann's: 2♀ (G.E. Tryhane) [MGCLB, ex coll. Kaye]; 3♂, ♀ (G.E. Tryhane) [MGCLB, ex coll. Kaye]

Trinidad: ♂ i.1913 [MGCLB, ex coll. Kaye, as *Macrocneme thyra*]; Trinidad: 2♀ i.1913 [MGCLB, ex coll. Kaye]; ? 21.v.1945 [N. Lamont] [UWIZM.2013.13.1063, as *Macrocneme lades*]

***Myrmecopsis kenedyae* (Fleming, 1957)**

Arima Valley, Simla: 13♂, ♀ [AMNH not seen (Fleming 1959); holotype (AMNH 2022)]

Arima Blanchisseuse Road, milestone 9.75, Textel Road, *Eupatorium* flowers: ♂ 11.x.1979 (M.J.W. Cock) [MJWC] (Fig. 91)

Arima Blanchisseuse Road, milestone 9.75, Textel Road, to *Heliotropium*: ♂ 30.i.1981 (M.J.W. Cock) [UWIZM CABI.5582]

Arima Blanchisseuse Road, milestone 10.5, Textel Road, to *Heliotropium*: ♂ 3.xi.1980 (M.J.W. Cock) [UWIZM CABI.5581]

Arima [Valley], Simla: ♂ (paratype) 23.ii.1954 [NHMUK]; ♂ (paratype) 1954 [NHMUK]

Arima Valley, Simla, to *Heliotropium*: ♂ 29.i.1981 (M.J.W. Cock) [UWIZM CABI.5583]

Curepe, to *Heliotropium*: ♂ 8.xi.1980 (M.J.W. Cock) [UWIZM CABI.5573]

Fort George, to *Heliotropium*: ♂ 8.viii.1981 (M.J.W. Cock) [UWIZM CABI.5577]

Lalaja Ridge, to *Heliotropium*: 2♂, ♀ 6.v.1995 (M.J.W. Cock) [♂, ♀ MJWC; ♂ UWIZM CABI.5574] (Figs. 92–93)

Lalaja South Road, milestone 2, to *Heliotropium*: ♂ 17.xi.1980 (M.J.W. Cock) [MJWC]

Morne Bleu, Textel Installation, to *Heliotropium*: 2♂ 9.x.1980 (M.J.W. Cock) [UWIZM CABI.5572, 5580]; 3♂ 3.xi.1980

(M.J.W. Cock) [♂ MJWC; 2♂ UWIZM CABI.5578, 5579]; ♂ 20.i.1981 (M.J.W. Cock) [UWIZM CABI.5575]; ♂ 6.ii.1981

(M.J.W. Cock) [MJWC, genitalia 1158]; ♂ 9.viii.1981 (M.J.W. Cock) [UWIZM CABI.5576]

Trinity Hills, main ridge, to *Heliotropium*: ♂ 4.iv.1982 (M.J.W. Cock) [MJWC]

***Nyridela acroxantha* (Perty, 1833)**

Morne Bleu, Textel Installation, to *Heliotropium*: ♂ 9.x.1980 (M.J.W. Cock) [MJWC] (Fig. 94)

St. Annes, 400 ft.: ♀ i.1922 (F.W. Jackson) [MGCLB, ex coll. Kaye]

***Orcynia calcarata* (Walker, 1854)**

Parrylands Oilfield: ♀ 13.ix.1980 (M.J.W. Cock) [MJWC] (Fig. 96)

Parrylands Oilfield, at light: 2♂ ii.1980 (J.O. Boos) [MJWC] (Fig. 95)

South Oropouche, Mon Desir: ? 28.vii.2021 (T.P. Maharaj photo) [iNaturalist observation 88958328] (Fig. 97)

***Pheia toulgoeti* Cerda, 2008**

Cumaca Road, 4.6 miles, MVL: ♂ 21.x.1982 (M.J.W. Cock) [MJWC]

Parrylands Oilfield, MVL: 2♂, ♀ 25.vii.1981 (M.J.W. Cock) [♂, ♀ MJWC; ♂ UWIZM CABI.5508] (Fig. 98)

***Pheia utica* (Druce, 1889)**

TOBAGO, Scarborough, Marden House, MVL: ♀ 9.i.1982 (M.J.W. Cock) [MJWC] (Fig. 100)

TOBAGO: ♂, ♀ 16.viii.1924 (C.L. Withycombe) [NHMUK] (Fig. 99); ♂ (L. Guppy) [MGCLB, ex coll. Kaye]; ♂ [MGCLB, ex coll. Kaye]

***Phoenicoprocta vacillans* (Walker, 1856)**

Caparo ♀ (f. *chrysonota*) (F. Birch) [NHMUK]; ♀ (f. *trinitatis*) i.1906 (S.M. Klages) [NHMUK, type of *trinitatis*]

Caura Valley, Nr. Caura, MVL: ♂ 24.ix.1978 (M.J.W. Cock) [MJWC] (Fig. 101)

Cumaca Road, 0.5 miles, MVL: 2♂ 27.x.1980 (M.J.W. Cock) [UWIZM CABI.5523, 5530]

Curepe: ♀ (*chrysonota*) ix.1979 (M.J.W. Cock) [MJWC] (Fig. 102); ♀ (*trinitatis* Rothschild) vi.1981 (M.J.W. Cock) [MJWC]

Curepe, at light: ♂ (*trinitatis* Strand) 8.ix.1978 (M.J.W. Cock) [MJWC] (Fig. 101)

Curepe, MVL: 8♂, ♀ (*chrysonota*) 1970s (F.D. Bennett) [UWIZM CABI.5497, 5511, 5514, 5524, 5525, 5528, 5529, 5532, 5533]; ♂ x.1970 (R. Cruttwell) [UWIZM CABI.5519]; 4♂ xi.1970 (F.D. Bennett) [UWIZM CABI.5510, 5515, 5527, 5535]; 2♂ (1 no abdomen) xii.1970 (R. Cruttwell) [UWIZM CABI.5526, 5536]; ♂ x.1971 [UWIZM CABI.5512]; ♂ 1971 (R. Cruttwell) [UWIZM CABI.5520]; ♂ iii.1971 (R. Cruttwell) [UWIZM CABI.5534]; ♂ xi.1971 [UWIZM CABI.5517]; ♂ i.1973 [UWIZM CABI.5516]; ♂ ii.1973 [UWIZM CABI.5513]; ♂ (f. *trinitatis*) 21.viii.1978 (M.J.W. Cock) [NHMUK, TL-44]; ♀ (un-named form) 27.viii.1978 (M.J.W. Cock) [MJWC] (Fig. 102); ♂ 28.viii.1978 (M.J.W. Cock) [UWIZM CABI.5521]; ♂ 8.x.1978 (M.J.W. Cock) [NHMUK, TL-45]; ♀ (*chrysonota*) 24.x.1978 (M.J.W. Cock) [MJWC]; ♂ 8.xi.1978 (M.J.W. Cock) [MJWC]; ♂ 13.xi.1978 (M.J.W. Cock) [MJWC] (Fig. 101); ♂ 8.xii.1978 (M.J.W. Cock) [UWIZM CABI.5522]; ♀ (*trinitatis*) 2.i.1979 (M.J.W. Cock) [UWIZM CABI.5500]; ♀ (*chrysonota*) (left H missing) 28.xii.1979 (M.J.W. Cock) [UWIZM CABI.5498]; ♂ 13.ix.1979 (M.J.W. Cock) [MJWC] (Fig. 101); ♂ 7.x.1979 (M.J.W. Cock) [UWIZM CABI.5531]; ♀ (*trinitatis*) 6.ii.1980 (M.J.W. Cock) [UWIZM CABI.5499]; ♀ (*chrysonota*) 28.ii.1980 (M.J.W. Cock) [MJWC]; ♀ (*chrysonota*) 1.iv.1981 (M.J.W. Cock) [MJWC]; ♀ (*trinitatis*) 13-20.ix.1981 (M.J.W. Cock) [MJWC] (Fig. 102); ♀ (*chrysonota*) 19-25.x.1981 (M.J.W. Cock) [UWIZM CABI.5496]; ♀ (*chrysonota*) 22-31.xii.1981 (M.J.W. Cock) [UWIZM CABI.5501]; ♀ (*chrysonota*) 1-10.ii.1982 (M.J.W. Cock) [MJWC] (Fig. 102)

Manzanilla, 50 ft.: ♂ 13.vi.1928 (F.W. Jackson) [AME, ex coll. Kaye]

Manzanilla, 100 ft.: ♂ (nr. f. *sanguinea*) 22.iii.1922 (F.W. Jackson) [AME, ex coll. Kaye, as *P. sanguinea* Walker]

Mt. Lambert: ♂ ii.1973 [UWIZM CABI.5518]

[Palmiste]: ♂ [N. Lamont] [NMS, as *P. rubiventer* Hampson]; ♀ (f. *trinitatis*) (N. Lamont) [NMS, as *Calonotos helymus*] (not seen; K.S. Bland pers. comm.)

Palmiste: ♀ (f. *chrysonota*, paratype of *M. disparata*) 9.ix.1917 [N. Lamont] [NMS]; ♀ (f. *chrysonota*) 9.ix.1917 [N. Lamont] [NHMUK]; ♂ 7.x.1918 [N. Lamont] [NMS]; ♂ 30.i.1928 [N. Lamont] [NMS, as *P. rubiventer*]; ♂ 23.xi.1937 [N. Lamont] [NMS, as *P. rubiventer*]; ♀ (f. *trinitatis*) 28.xii.1937 [N. Lamont] [NMS, as *Calonotos helymus*]; ♂ 9.iii.1947 [N. Lamont] [UWIZM.2013.13.1077, as *P. rubiventer*]; ♂ 23.iv.1947 [N. Lamont] [UWIZM.2013.13.1080]; ♀ (f. *chrysonota*) 4.x.1947 [N. Lamont] [UWIZM.2013.13.1120, as *Mydropastea chrysonota*]; ♂ 11.iv.1948 [N. Lamont] [UWIZM.2013.13.1081]; ♂ 5.v.1948 [N. Lamont] [UWIZM.2013.13.1076, as *P. rubiventer*]; ♂ 9.viii.1948 [N. Lamont] [UWIZM.2013.13.1075, as *P. rubiventer*]; ♂ 19.viii.1948 [N. Lamont] [UWIZM.2013.13.1079]; ♀ (f. *chrysonota*) 2.x.1948 [N. Lamont] [UWIZM.2013.13.1119, as *Mydropastea chrysonota*]; ♂ 4.iii.1949 [N. Lamont] [UWIZM.2013.13.1074, as *P. rubiventer*]; ♀ (f. *chrysonota*) 9.viii.1949 [N. Lamont] [UWIZM.2013.13.1118, as *Mydropastea chrysonota*]

Parrylands Oilfield, MVL: ♀ (f. *trinitatis* Rothschild) 25.vii.1981 (M.J.W. Cock) [MJWC]

Penal: ♂ 25.i.2014 (K. Sookdeo photo, moths 30) (Fig. 103); ♂ 18.iv.2014 (K. Sookdeo photo, moths 41) (Fig. 103)

Rock: ♀ (f. *chrysonota*, holotype of *M. disparata*) 1.i.1918 [N. Lamont] [NMS]

South Oropouche, Mon Desir: ♂ 1.i.2022 (T.P. Maharaj photo) [iNaturalist observation 104161320]; ♂ 9.i.2022 (T.P. Maharaj photo) [iNaturalist observation 104683436]; ♂ 12.i.2022 (T.P. Maharaj photo) [iNaturalist observation 104856203]; ♂ (f. *nigropeltata*) 13.ix.2022 (T.P. Maharaj photo) [iNaturalist observation 134861097]
 St. Augustine: ♀ (f. *trinitatis*) 25.ix.1924 (C.L. Withycombe) [NHMUK]; ♀ (f. *chrysonota*) 4.x.1924 (C.L. Withycombe) [NHMUK]
 San Fernando: ♂ i.1922 [N. Lamont] [UWIZM.2013.13.1078]
 Siparia, Palo Seco, mostly cacao: ♂ (f. *trinitatis*, poor condition) 14.i.1917 (R.W. Farmborough) [OUMNH]
 St. Augustine: ♂ 1.i.1976 (D.J. Stradling) [UWIZM.2014.9.87]
 Valencia Forest, MVL: ♂ 5.viii.1981 (M.J.W. Cock) [MJWC] (Fig. yy)
 Trinidad: ♀ 1909 [AME, ex coll. Kaye, as ?*trinitatis*]; ♀ [AME, ex coll. Kaye, as *Mydropastea chrysonota*]; ♀ (Miller) [AME, ex coll. Kaye, as *Mydropastea chrysonota*] (Fig. yy)
 [Trinidad]: ♂ (left F missing) [N. Lamont] [UWIZM.2013.13.1082]

***Pleurosoma trinitatis* (Rothschild, 1911)**

Arima Valley, Simla: 15♂, 8♀ [AMNH not seen (Fleming 1957)]
 Arima Blanchisseuse Road, milestone 10.5, to *Heliotropium*: ♂ 3.xi.1980 (M.J.W. Cock) [UWIZM CABI.5545]
 Bush Bush Island, to *Heliotropium* by day: ♂ 28.iii.2003 (M.J.W. Cock) [MJWC]
 Caparo: ♂ (type), 3♀ xii.1905 (S.M. Klages) [NHMUK]
 Chaguaramas, to *Heliotropium*: ♀ 24.iii.1982 (M.J.W. Cock) [UWIZM CABI.5553]
 Curepe, to *Heliotropium*: ♂ 24.viii.1981 (M.J.W. Cock) [MJWC]; ♂ (left FW missing) 27.viii.1981 (M.J.W. Cock) [UWIZM CABI.5551]
 Fort George, to *Heliotropium*: ♂ 2.viii.1981 (M.J.W. Cock) [MJWC]
 Lower Morne Catharine, to *Heliotropium*: ♂ 21.v.1982 (M.J.W. Cock) [MJWC] (Fig. 104)
 Morne Catharine, to *Heliotropium*: ♂ 24.iii.1982 (M.J.W. Cock) [UWIZM CABI.5537]; 2♂ 18.ix.1982 (M.J.W. Cock) [UWIZM CABI.5547, 5549]
 Mt. Harris, bottom of track from east on Cunapo Southern Road, to *Heliotropium*, by day: ♂ 25.iii.2003 (M.J.W. Cock) [MJWC]
 Parrylands Oilfield, to *Heliotropium*: 4♂ (1 no metathorax, abdomen) 7.xi.1980 (M.J.W. Cock) [UWIZM CABI.5542, 5544, 5546, 5552]; 3♂, 4♀ 25.vii.1981 (M.J.W. Cock) [2♀ MJWC (Fig. 105); 3♂, 2♀ UWIZM CABI.5538, 5541, 5543, 5548, 5550]
 Scotland Bay, to *Heliotropium*: ♂, 2♀ 9.i.1981 (M.J.W. Cock) [♂, ♀ MJWC; ♂ UWIZM CABI.5554]
 St. Benedict's, to *Heliotropium*: ♂ 1.v.1982 (M.J.W. Cock) [MJWC]; ♂ 5.v.1981 (M.J.W. Cock) [MJWC, genitalia 1120] (Appendix Figs. 13, 33); ♂ 10.v.1982 (M.J.W. Cock) [UWIZM CABI.5539]

***Poliopastea chrysotarsia* (Hampson, 1898)**

Curepe, BLT: ♂ 6-11.xii.1981 (F.D. Bennett) [MJWC] (Fig. 106)

***Poliopastea maroniensis* (Schaus, 1905)**

Curepe, MVL: ♂ 31.viii.1978 (M.J.W. Cock) [MJWC] (Fig. 107)
 Morne Bleu, Textel Installation, at light: ♂ 4.ii.1979 (M.J.W. Cock) [MJWC, genitalia 1112] (Appendix Figs. 14, 34)

***Poliopastea plumbea* Hampson, 1898**

Arima Valley, Simla: 2♂ [AMNH not seen (Fleming 1957)]
 [Arima Valley], St. Pat[rick]'s: ♂ 29.iii.1932 [N. Lamont] [NMS as *Macrocneme eacus*]
 Curepe, MVL: ♂ 4.viii.1978 (M.J.W. Cock) [UWIZM CABI.7984]; ♂ 5.x.1978 (M.J.W. Cock) [UWIZM CABI.5555]; ♂ 31.v.1979 (M.J.W. Cock) [MJWC, genitalia 1111] (Appendix Figs. 15, 35); ♂ 30.ix.1979 (M.J.W. Cock) [UWIZM CABI.5556]; ♂ 3.x.1979 (M.J.W. Cock) [MJWC]; ♂ 4.xi.1979 (M.J.W. Cock) [UWIZM CABI.5557]; ♂ 12-15.xii.1980 (M.J.W. Cock) [MJWC] (Fig. 108); ♂ 14-19.ix.1981 (M.J.W. Cock) [MJWC]
 Fort George: ♂ ix.1891 [AME, ex coll. Kaye]
 Inniss Field, MVL: ♂ 17.v.1999 (M.J.W. Cock) [MJWC]
 Maracas Valley, Riverview Gardens, 10.677 -61.412: ?♂ 26.vi.2020 (R. Williams-Littzen photo) [iNaturalist observation 51030864]

Maraval: ♂ [AME, ex coll. Kaye]

Palmiste: ♀ 9.ix.1917 [N. Lamont] [NMS as *Macrocneme eacus*] (Fig. 109); ♂ 5.iv.1921 [N. Lamont] [NMS as *M. eacus*]; ♂ 12.xi.1933 [N. Lamont] [NMS as *M. eacus*]; ♂ 24.iii.1947 [N. Lamont] [UWIZM.2013.13.1057, as *Macrocneme albitarsia*]; ♂ 13.xi.1946 [N. Lamont] [UWIZM.2013.13.1060, as *Macrocneme albitarsia*]; ♂ 1.vi.1947 [N. Lamont] [UWIZM.2013.13.1058, as *Macrocneme albitarsia*]

< 15 mi from Port of Spain, < 1,000 ft.: ♀ xii.1913-iv.1914 (F.W. Jackson) [OUMNH]

Penal: ?♂ 18.iv.2014 (K. Sookdeo photo, moths 41) (Fig. 110)

St. Ann's: ♂ (G.E. Tryhane) [AME, ex coll. Kaye]

St. Augustine: ♀ 26.x.1913 (Guppy) [AME, ex coll. Kaye]; ♀ 28.x.1913 (Guppy) [AME, ex coll. Kaye]; ♂ 2.ii.1924 (C.L. Withycombe) [NHMUK]

Nr. St. Augustine: ♂ 24.ix.1924 (W.C. Lester-Smith) [OUMNH]

St. Joseph: ♀ xii.1921 (F.W. Jackson) [AME, ex coll. Kaye]; ♂ (F.W. Jackson) [AME, ex coll. Kaye]; ♂ i.1922 (F.W. Jackson) [AME, ex coll. Kaye]; ♂ ([F.W.] Jackson) [AME, ex coll. Kaye, un-named]

Trinidad: ♂ (F.W. Jackson) [AME, ex coll. Kaye]; ♀ 1914 (W. Buthn) [AME, ex coll. Kaye]; Trinidad: ♂ (F.W. Jackson) [AME, ex coll. Kaye, un-named]

[Trinidad]: ♂ [N. Lamont] [UWIZM.2013.13.1059, as *Macrocneme albitarsia*]

***Poliopastea vittata* (Walker, 1854)**

Bordenal Savana, MVL: 2♀ 20.ix.1979 (F.D. Bennett & R.M. Baranowski) [MJWC (Fig. 112); UWIZM CABI.5562]

Cumaca Road, 4.6 miles, MVL: ♂ 21.x.1982 (M.J.W. Cock) [MJWC]

Curepe, MVL: ♂ 1970s (F.D. Bennett) [UWIZM CABI.5558]; ♂ ii.1971 (R. Cruttwell) [UWIZM CABI.5561]; ♂ vii.1971 (R. Cruttwell) [UWIZM CABI.5559]; ♂ ii.1973 [UWIZM CABI.5560]; ♀ 4.viii.1978 (M.J.W. Cock) [UWIZM CABI.5563]; ♂ 23.i.1979 (M.J.W. Cock) [MJWC, genitalia 1113] (Fig. 111, Appendix Figs. 16, 36); ♀ 7.x.1979 (M.J.W. Cock) [MJWC]; ♀ 9.ix.1980 (M.J.W. Cock) [UWIZM CABI.5564]; ♀ 21-28.ii.1982 (M.J.W. Cock) [MJWC]

Fishing Pond: ♂ xii.2016 (Reynold Boyce) [M. Rutherford e-mail 7.xii.2017]

Macoya Gardens: ♂, ? (larva on vine) 20.ix.1978 (M.J.W. Cock) [♂ MJWC; ? NHMUK, TL-68]

Manzanilla, 50 ft.: ♂ 10.i.1928 (F.W. Jackson) [NHMUK]

[Palmiste]: 3 [N. Lamont] [NMS, not seen]

Palmiste: ♀ 14.vii.1917 [N. Lamont] [NMS as *Macrocneme vittata*]; ♀ 20.ii.1938 [N. Lamont] [NMS]

Penal: ♀ 28.i.2014 (K. Sookdeo photo, moths 30) (Fig. 113)

Port of Spain: ♂ (F. Birch) [NHMUK, as *P. indistincta* Butler]

San Fernando, mostly capt. on hill in undergrowth of uncult'd plots: ♀ (atypical, perhaps discoloured) 7.x.1917 (R.W. Farmborough) [OUMNH]

St. Augustine: ♂ 3.ix.1924 (C.L. Withycombe) [NHMUK, det Dietz]

Trinidad: ♀ (type of *trinitatensis* Strand) [NHMUK]; ♀ (S.J. Tryhane) [NHMUK, det Dietz]; 3♂ [OUMNH, as *Macrocneme nigritarsia*]

***Pseudomya afflictata* (Walker, 1854)**

Caparo: 7♂, 2♀ (F. Birch) [NHMUK, as *S. temenus* Stoll; ♂ in main collection, 6♂, 2♀ in supplementary; two specimens have green scales at base of F]

Curepe: ♂ 9.iii.1980 (M.J.W. Cock) [UWIZM CABI.995]

Curepe, to *Heliotropium*: ♂ 28.ix.1980 (M.J.W. Cock) [MJWC] (Fig. 114); ♂ 4.x.1980 (M.J.W. Cock) [UWIZM CABI.994]

Curepe, MVL: ♂ xi.1970 (F.D. Bennett) [UWIZM CABI.1002]; ♂ 19.xii.1978 (M.J.W. Cock) [UWIZM CABI.993]

Esperanza: ?♂ 14.ii.2022 (S. Rampersad photo) [iNaturalist observation 106754942]

La Laja South Road, milestone 3: ♀ 21.xi.1978 (M.J.W. Cock) [UWIZM CABI.1008]

La Vega Estate, 10.421 -61.346, at *Chromolaena* flowers: ♂ 13.i.2020 (D. Gunn photo) [iNaturalist observation 37571413] (Fig. 116)

Las Lomas, Spanish Farm, to *Heliotropium*: 6♂, 6♀ 12.x.1980 (M.J.W. Cock) [♂, 2♀ MJWC; 5♂, 4♀ UWIZM CABI.996-1000, 1003-1006]

Morne Bleu, Textel Installation, at light: ♂ (no abdomen) 5.iii.1979 (M.J.W. Cock) [UWIZM CABI.1007]

[Palmiste]: ♂ [N. Lamont] [NMS, not seen]

- Palmiste: ♀ 24.xi.1917 [N. Lamont] [NMS, as *S. concisa*]; ♂ 10.iii.1918 [N. Lamont] [NMS, as *S. concisa*]; ♂ 16.xi.1927 [N. Lamont] [UWIZM.2013.13.1039, as *S. concisa*]; ♀ 13.i.1921 [N. Lamont] [UWIZM.2013.13.1040, as *S. concisa*]; ♂ 11.i.1928 [N. Lamont] [AME, ex coll. Kaye, as *Saurita temenus*]; ♀ 19.xi.1946 [N. Lamont] [UWIZM.2013.13.1042, as *S. concisa*]
- Parrylands Oilfield, to *Heliotropium*: ♂, ♀ 7.xi.1980 (M.J.W. Cock) [♀ MJWC (Fig. 115); ♂ UWIZM CABI.1001]; ♂ 25.vii.1981 (M.J.W. Cock) [MJWC]
- San Francique, 10.186 -61.505: ♀ 28.xi.2021 (S. Ragoonanan photo) [iNaturalist observation 102100261]
- Nr Sangre Grande, Caigual, S. Hilario Estate, c. 400ft: ♂ 9.ix.1917 (Agnes Lickfold) [OUMNH, labelled *Saurita salta* Schaus, in W.J. Kaye's writing]
- South Oropouche, Mon Desir, by day: ♀ 10.xii.2022 (T.P. Maharaj photo) [iNaturalist observation 144232963]
- South Oropouche, Mon Desir, at eupatorium flowers: ♀ 2.x.2020 (T.P. Maharaj photo 8352) [iNaturalist observation 91874904] (Fig. 117)
- South Oropouche, Mon Desir, at *Cordia* flowers: ♀ 30.v.2021 (T.P. Maharaj photo) [iNaturalist observation 80869005]
- South Oropouche, Mon Desir, at light: ♂ 10.viii.2021 (T.P. Maharaj photo) [iNaturalist observation 90771330]; ♀ 10.x.2021 (T.P. Maharaj photo) [iNaturalist observation 97892400]; ♂ 6.xii.2021 (T.P. Maharaj photo) [iNaturalist observation 102708629]; ♂ 2.i.2022 (T.P. Maharaj photo) [iNaturalist observation 104238261]; ♀ 12.i.2022 (T.P. Maharaj photo) [iNaturalist observation 104856378]; ♂ 16.xi.2022 (T.P. Maharaj photo) [iNaturalist observation 142192235]; ♂ 3.xii.2022 (T.P. Maharaj photo) [iNaturalist observation 143611234]; ♀ (*Cordia* flowers by day) 4.xii.2022 (T.P. Maharaj photo) [iNaturalist observation 143643644]
- St. Ann's Valley: ♂, ♀ [NHMUK supplementary]
- St. Augustine: ♀ 14.ix.1924 (C.L. Withycombe) [NHMUK supplementary]
- Wa Samaki Ecosystems, east of Freeport, 10.44 -61.37: ♂ 19.vi.2021 (R. Deo photo) [iNaturalist observation 83772531]; ♂, ♀ (in cop) 29.xii.2021 01.15h (R. Deo photo) [iNaturalist observation 103899913]
- Trinidad: ♀ (Dyer) [NHMUK supplementary]; ♂ (F.W. Jackson) [AME, ex coll. Kaye, as *Saurita temenus*]; ♂ [AME, ex coll. Kaye, as *Saurita temenus*]; ♀ [18]98 (W.J. Kaye) [AME, ex coll. Kaye, as *Saurita temenus*]
- [Trinidad]: ♂ [N. Lamont] [UWIZM.2013.13.1041, as *S. concisa*]

***Pseudomya melanthus* (Stoll, 1782)**

- Ariapite Valley: ♀ vii.1902 [NHMUK]
- Centeno: ♀ larva on citrus emerged 9.x.1968 (E.J. Rankin) [UWIZM ex CABI]; ♂ bred from larva on citrus emerged xi.1968 (E.J. Rankin) [UWIZM ex CABI]
- Curepe: ♂, ♀ (in cop.) 19.ix.1980 (M.J.W. Cock) [MJWC] (Fig. 118)
- Curepe: ♂ (cocoon attached) (from pupa on citrus; ?feeds on lichens) i.1971 (R. Cruttwell) [UWIZM CABI.5566]
- Curepe, MVL: ♂ ii.1971 (R. Cruttwell) [UWIZM CABI.5569]; ♀ iii.1971 (R. Cruttwell) [UWIZM CABI.5571]; ♂ 9.ix.1978 (M.J.W. Cock) [UWIZM CABI.5568]; ♀ 13.ii.1979 (M.J.W. Cock) [MJWC]; ♂ 20.v.1979 (M.J.W. Cock) [MJWC, genitalia 1156] (Appendix Figs. 17, 37); ♂ 23.v.1979 (M.J.W. Cock) [UWIZM CABI.5567]; ♂, ♀ 3.i.1980 (M.J.W. Cock) [MJWC] (Fig. 119)
- Curepe, L. Govt. Nursery: ♀ 20.ii.1968, p. 22.iii, em. 1.iv (E.J. Rankin) [UWIZM ex CABI]
- Curepe, UWI Nursery: ♀ bred from larva (E.J. Rankin) [UWIZM ex CABI]
- La Josephine, Euphorbia flowers: ♂ iii.1921 (F.W. Urich) [AME, ex coll. Kaye]
- Maraval, in sunshine: ♂ viii.[19]17 (W. Buthn) [AME, ex coll. Kaye]
- Orange Valley, 10.463 -61.480: ♂ 23.x.2020 (D. Gunn photo) [iNaturalist observation 63356745]
- Penal: ♀ 20.iv.2014 (K. Sookdeo photo, moths 50)
- San Fernando area: ♂ vii.2022 (NarenD photo) [iNaturalist observation 126311529]
- San Francique, 10.186 -61.506: ♀ (newly emerged from cocoon on *Spondias dulcis*) 29.i.2022 (S. Ragoonanan photo) [iNaturalist observation 105776698] (Fig. 121)
- South Oropouche, Mon Desir, on flowers of *Austroeupatorium inulaefolium*: ♂ 1.x.2020 (T.P. Maharaj photo 8044) [iNaturalist observation 91860995] (Fig. 120)
- St Augustine: ♀ 27.x.1924 (C.L. Withycombe) [NHMUK]; 2♂ on *Cordia*, 10.x.1944 (I.E. Kirby) [CABI]
- St Joseph, UWI Field Station, on *Cordia*: ♂, ♀ (in cop.) 13.xi.1980 (M.J.W. Cock) [UWIZM CABI.5565, 5570]
- Trinidad: ♀ [NHMUK]

***Pseudomya tipulina* (Hübner, 1823)**

Caparo: 6♂, 5♀ (F. Birch) [NHMUK supplementary] (Fig. 122); 2♂ xi.1905 (S.M. Klages) [NHMUK supplementary];
2♂, 2♀ xii.1905 (S.M. Klages) [NHMUK supplementary]

***Psoloptera leucosticta* (Hübner, 1827)**

Cat's Hill, on flowers of *Austro eupatorium inulaefolium*: 2♀ 24.ix.2019 (J. Morrall) [MJWC, DNA 342, 345]

Curepe, MVL: ♀ 29.xii.1978 (M.J.W. Cock) [MJWC]; ♀ 7.ix.1980 (M.J.W. Cock) [MJWC]

Guaico: ♂ 18.iv.1915 [N. Lamont] [NMS]

Guaico, 150 ft.: ♀ i.1922 (F.W. Jackson) [AME, ex coll. Kaye]

Inniss Field, MVL: 5♂, ♀ 17.v.1999 (M.J.W. Cock) [3♂, ♀ MJWC, genitalia 1148] (Figs. 123–124, Appendix Figs. 18, 38); 2♂ UWIZM CABI.7985, 7986]

Palmiste: ♀ 22.v.1917 [N. Lamont] [NMS]; ♀ 30.ix.1917 [N. Lamont] [NMS]

St. Ann's: ♂, ♀ [AME, ex coll. Kaye]

Trinidad: ♂ [OUMNH, ex W.W. Saunders coll.]

Rhynchopyga flavicollis* (Druce, 1884)*Morph with no white spot on forewing:**

Arima valley, Simla: ♂ [AMNH not seen (Fleming 1957)]

Parrylands Oilfield, to *Heliotropium*: ♀ 7.xi.1980 (M.J.W. Cock) [MJWC] (Fig. 126)

Morph with white spot on forewing:

Curepe, to *Heliotropium*: ♂ 21.v.1981 (M.J.W. Cock) [MJWC] (Fig. 127)

Curepe, MVL: ♀ ii.1973 [R.E. Cruttwell] [MJWC] (Fig. 128)

Fort George, to *Heliotropium*: ♂ 8.viii.1981 (M.J.W. Cock) [MJWC, genitalia 1119] (Appendix Figs. 19, 39)

Maracas - Caura Ridge: ♀ 14.iii.1982 (M.J.W. Cock) [MJWC]

Parrylands Oilfield, to *Heliotropium*: ♂ 25.vii.1981 (M.J.W. Cock) [MJWC]

***Saurita cassandra* (Linnaeus, 1758)**

Arima: ? 30.xi.1937 [N. Lamont] [NMS; not seen]; ? 5.ii.1938 [N. Lamont] [NMS; not seen]

Caparo: ♂, ♀ (F. Birch) [NHMUK]

Carapachaima, 0.477-61.437: ♂ 15.iv.2021 (R. Deo photo) [iNaturalist observation 74110581]

Curepe, BLT: ♂, ♀ 23.i-10.ii.1982 (F.D. Bennett) [MJWC] (Fig. 130)

Curepe, MVL: ♂ iii.1971 (R. Cruttwell) [UWIZM CABI.1018]; ♂ viii.1971 (R. Cruttwell) [UWIZM CABI.1017]; ♂ i.1973 [UWIZM CABI.1015]; ♂ 9.x.1979 (M.J.W. Cock) [UWIZM CABI.1013]; 2♂ 6-11.xii.1980 (M.J.W. Cock) [MJWC (Fig. 129); UWIZM CABI.1014]; ♂ 18-21.i.1981 (M.J.W. Cock) [MJWC]

Guapo: ♀ 2.i.1928 [N. Lamont] [NMS]

Inniss Field, MVL: ♀ 17.v.1999 (M.J.W. Cock) [MJWC]

La Romain, 10.242 -61.491: ♂ 30.i.2021 (B. Ramdeen photo) [iNaturalist observation 68831058]

Manzanilla: ♀ i.1922 (F.W. Jackson) [OUMNH]

2 miles East of Maturita, MVL: ♀ 3.viii.1978 (M.J.W. Cock) [UWIZM CABI.1021]

Moreau: ? 10.iv.1932 [N. Lamont] [NMS; not seen]

M. Diable: ♂ 1.i.1921 (N. Lamont) [NHMUK]

Mt. Lambert, MVL: 2♂, 3♀ ii.1973 [UWIZM CABI.1016, 1019, 1022-1024]

Palmiste: ? 24.ii.1919 [N. Lamont] [NMS; not seen]; ♂ 3.ii.1921 [N. Lamont] [NMS]; ? 4.iv.1921 [N. Lamont] [NMS; not seen]; ♀ 19.iii.1922 [N. Lamont] [NMS]; ♂ 3.iv.1922 (N. Lamont) [OUMNH]; ? 5.iv.1922 [N. Lamont] [NMS; not seen]; ? 22.iv.1928 [N. Lamont] [NMS; not seen]; ? 20.xii.1929 [N. Lamont] [NMS; not seen]; ? 18.i.1930 [N. Lamont] [NMS; not seen]; ? 21.i.1930 [N. Lamont] [NMS; not seen]; ? 16.iii.1930 [N. Lamont] [NMS; not seen]; ? 29.iv.1934 [N. Lamont] [NMS; not seen]; ? 19.xi.1935 [N. Lamont] [NMS; not seen]; ♀ 1.iv.1947 [N. Lamont] [UWIZM.2013.13.1048]; ♀ 3.iv.1947 [N. Lamont] [UWIZM.2013.13.1049]; ♀ 12.xii.1947 [N. Lamont] [UWIZM.2013.13.1050]; ♂ 14.xi.1948 [N. Lamont] [UWIZM.2013.13.1052]

Penal: 22.i.2014 (K. Sookdeo photo, moths 30); ♀ 29.xi.2014 (K. Sookdeo photo, moths 59) (Fig. 131)

< 15 mi from Port of Spain, < 1,000 ft.: 2♀ xii.1913-iv.1914 (F.W. Jackson) [OUMNH]
 Rio Claro-Guayaguayare Road, milestone 6.5, MVL: ? 30.ix.1978 (M.J.W. Cock) [NHMUK, TL-67]
 St. Augustine: ♀ 15.x.1923 (C.L. Withycombe) [NHMUK]
 Nr. St. Augustine: ♀ 24.ix.1924 (W.C. Lester-Smith) [OUMNH]
 San Fernando: ♀ i.1922 (N. Lamont) [OUMNH]
 San Francique, 10.190 -61.514: ? 3.ii.2021 (B. Ragoonanan photo) [iNaturalist observation 69046904]
 South Oropouche, Mon Desir: ?♀ 19.iii.2021 (T.P. Maharaj photo) [iNaturalist observation 71553388]; ?♀ 1.vi.2021 (T.P. Maharaj photo) [iNaturalist observation 81212440]
 Union to Carital, 10.353 -61.427: ♂, ♀ (in cop.) 18.i.2022 (S. Ramsaroop photo) [iNaturalist observation 105154325] (Fig. 132)
 Valencia Forest, MVL: ♀ 5.viii.1981 (M.J.W. Cock) [UWIZM CABI.1020]
 Trinidad: ♂ [NHMUK]; ♂ (N. Lamont) [NHMUK]; 2♂,2♀ 1922 (F.W. Jackson) [OUMNH]; ♂, ♀ [AME, ex coll. Kaye]; ♀ 1914 (W. Buthn) [AME, ex coll. Kaye]; ♂ 29.i.2022 (siankato photo) [iNaturalist observation 105838700]
 Trin[idad]: ♀ ?Oct [19]12 (Rogers) [AME, ex coll. Kaye]
 [Trinidad]: ♂ [N. Lamont] [UWIZM.2013.13.1051]

***Saurita perspicua* Schaus, 1905**

Arima Valley, Simla, MVL: ♂ 12.ii.1982 (M.J.W. Cock) [MJWC]
 Inniss Field, MVL: 3♂, ♀ 17.v.1999 (M.J.W. Cock) [2♂, ♀ MJWC; ♂ genitalia 1117 (Figs. 133–134, Appendix Figs. 20–21, 40); ♂ UWIZM CABI.7979]
 Parrylands Oilfield, MVL: ♀ 13.xi.1980 (M.J.W. Cock) [MJWC]
 Penal, at light: ♂ 15.iii.2014 (K. Sookdeo photo, moths 41) (Fig. 136)
 Trinidad: ♀ (type of *S. perspicua*) [USNM] (Fig. 135)

***Sphecosoma aurantipes* Rothschild, 1911**

Arima Valley, Simla, to *Heliotropium*: ♂ (left F missing) 17.iv.1981 (M.J.W. Cock) [UWIZM CABI.1036]
 Chaguaramas, to *Heliotropium*: 2♂ 24.iii.1982 (M.J.W. Cock) [MJWC (Fig. 137); UWIZM CABI.1037]
 Lalaja Ridge: ♂ 17.iii.1982 (M.J.W. Cock) [UWIZM CABI.1034]
 Lalaja Ridge, to *Heliotropium*: ♂ 6.v.1995 (M.J.W. Cock) [MJWC]
 Las Cuevas Bay, swamp behind beach, to *Heliotropium* by day: ♂ 23.iii.2003 (M.J.W. Cock) [MJWC]
 Maracas Bay, to *Heliotropium* by day: ♂ 29.iii.2003 (M.J.W. Cock) [MJWC]
 Morne Catharine, to *Heliotropium*: ♂ 24.iii.1982 (M.J.W. Cock) [MJWC]
 Parrylands Oilfield, to *Heliotropium*: ♂ 7.xi.1980 (M.J.W. Cock) [UWIZM CABI.1035]
 Plum Road, milestone 1/4, to *Heliotropium*: ♂ 6.iv.1982 (M.J.W. Cock) [MJWC]
 St. Benedict's, to *Heliotropium*: ♂ 1.v.1982 (M.J.W. Cock) [MJWC]; ♂ 10.v.1982 (M.J.W. Cock) [MJWC, genitalia 1121] (Appendix Figs. 22, 41)

***Syntomeida melanthus* (Cramer, 1779)**

Curepe, MVL: ♂ 1971 [R.E. Cruttwell] (MJWC) (Fig. 138)
 San Fernando, mostly on hill: ♀ (basal and apical spots F only) 7.x.1917 (R.W. Farmborough) [OUMNH, det. Sir Norman Lamont & W.J. Kaye, 1923] (Fig. 139)

***Valvaminor desperata* (Walker, 1856)**

Arima Valley, Simla, to *Heliotropium*: 2♀ 28.i.1981 (M.J.W. Cock) [MJWC] (Fig. 141)
 Arima Valley, Simla, MVL: ♂ 28.i.1981 (M.J.W. Cock) [MJWC]; ♂ 30.vii.1981 (M.J.W. Cock) [MJWC] (Fig. 140); ♂ 12.ii.1982 (M.J.W. Cock) [MJWC]
 Palmiste: ♂ 20.iv.1926 [N. Lamont] [NMS]

***Valvaminor endoleuca* (Druce, 1905)**

Arima Valley, Simla: 6♂, 5♀ [AMNH not seen (Fleming 1957)]
 Curepe, MVL: ♂ 11-20.ii.1982 (M.J.W. Cock) [MJWC, genitalia 1118]
 Parrylands Oilfield, to *Heliotropium*: ♂, 2♀ 25.vii.1981 (M.J.W. Cock) [MJWC] (Figs. 142–143)

St. Ann's: ♀ (labelled *M. desperata*) [NHMUK]

***Valvaminor jacerda* Cock and Laguerre, 2022**

Arima Valley, Simla: 4♂, ♀ [AMNH not seen (Fleming 1957)]

[Arima Valley], Simla, 250 ft.: ♂ 5.v.1989 (R.G. Brown) [UWIZM CABI.5505]

Aripo Savannah: ♂ 26.xi.1979 (M. Alkins) [UWIZM.2014.9.1308]

Curepe: ♀ v-vi.1979 (M.J.W. Cock) [MJWC, paratype] (Fig. 145)

Curepe, to *Heliotropium*: ♂ 7.x.1980 (M.J.W. Cock) [MJWC, paratype]

Curepe, MVL: ♂ (head and right F missing) 1970s (F.D. Bennett) [UWIZM CABI.5507]; ♂ (head missing) xii.1970 (R. Cruttwell) [UWIZM CABI.5503]; ♂ 22.viii.1978 (M.J.W. Cock) [UWIZM CABI.5502]; ? 25.viii.1978 (M.J.W. Cock) [NHMUK, TL-46]; ♂ 27.viii.1978 (M.J.W. Cock) [UWIZM CABI.5506]

Las Lomas, Spanish Farm, to *Heliotropium*: ♂ 12.x.1980 (M.J.W. Cock) [MJWC, genitalia 1115, holotype to be deposited in NHMUK] (Fig. 144); ♂ 12.x.1980 (M.J.W. Cock) [MJWC, paratype]

[Palmiste]: ♂ (undated) [N. Lamont] [NMS-10013378]

Palmiste: ? (head detached) 22.ix.2016 [N. Lamont] [UWIZM.2013.13.1038]; ♂ 16.i.1921 [N. Lamont] [UWIZM.2013.13.1037]; ♀ 20.ii.1921 [N. Lamont] [NMS-10013333, paratype]; ♂, ? 20.ii.1921 [N. Lamont] [UWIZM.2013.13.1035, 1036]; ♂ (no head) 23.ii.1921 [N. Lamont] [MGCLB, ex coll. Kaye, as *Loxophlebia diaphana*]; ♂ 6.iv.1921 [N. Lamont] [NMS-10013324]; ♂ 15.xii.1921 [N. Lamont] [NMS-10013351]; ♀ 13.ii.1926 (W.J. Kaye) [MGCLB, ex coll. Kaye, as *Loxophlebia diaphana*]; ♂ 9.xii.1927 [N. Lamont] [MGCLB, ex coll. Kaye, as *Loxophlebia diaphana*]; ♂ 24.xii.1929 [N. Lamont] [MGCLB, ex coll. Kaye, as *Loxophlebia diaphana*]; ♀ 17.ii.1930 [N. Lamont] [MGCLB, ex coll. Kaye, as *Loxophlebia diaphana*]; ♂ 9.ii.1932 [N. Lamont] [MGCLB, ex coll. Kaye, as *Loxophlebia diaphana*]; ♀ 14.ii.1932 [N. Lamont] [MGCLB, ex coll. Kaye, as *Loxophlebia diaphana*]; ♂ 21.i.1936 [N. Lamont] [NMS-10013342]; ♀ 11.xi.1937 [N. Lamont] [NMS-10013369, paratype]; ♂ 24.xii.1937 [N. Lamont] [NMS-10013360, paratype]

Parrylands Oilfield: ♀ 7.xi.1980 (M.J.W. Cock) [MJWC, paratype]

Parrylands Oilfield, to *Heliotropium*: ♀ 25.vii.1981 (M.J.W. Cock) [MJWC, paratype]

Penal, at light: ♂ 18.iv.2014 (K. Sookdeo photo, moths 41) (Fig. 146)

South Oropouche, Mon Desir: ? 2.ix.2021 (T.P. Maharaj) [iNaturalist observation 93457019]; ♂ 9.xii.2021 (T.P. Maharaj) [iNaturalist observation 102796741]; ? 31.i.2022 (T.P. Maharaj) [iNaturalist observation 105960727]

St. Augustine: ♀ 24.ii.1924 (C.L. Withycombe) [NHMUK]; ♂ 14.ii.1925 (C.L. Withycombe) [NHMUK]

[Trinidad, Curepe], MVL: ♂ viii.1971 (R. Cruttwell) [UWIZM CABI.5504]

TOBAGO, Arnos Vale, 11.206 -60.751: ♂ 11.vi.2022 (R. Deo photo) [iNaturalist observation 121361203] (Fig. 147)

TOBAGO, Englishman's Bay: ♀ 30.xi.2022 (A. Deacon photo) [iNaturalist observation 143347036]

***Xanthoda beebei* (Fleming, 1957)**

Lalaja South Road, *Eupatorium* flowers: ♀ 25.ix.1982 (M.J.W. Cock) [MJWC] (Fig. 149, Appendix Fig. 24)

Parrylands Oilfield, to *Heliotropium*: ♂ 25.vii.1981 (M.J.W. Cock) [MJWC] (Fig. 148, Appendix Fig. 23)

***Xanthoda* sp.**

Palmiste: ♂ 16.v.1947 [N. Lamont] [UWIZM.2013.13.1114, as *C. gemmata* Butler] (Fig. 150)

Part 2. Detailed views of the bodies of pinned specimens.

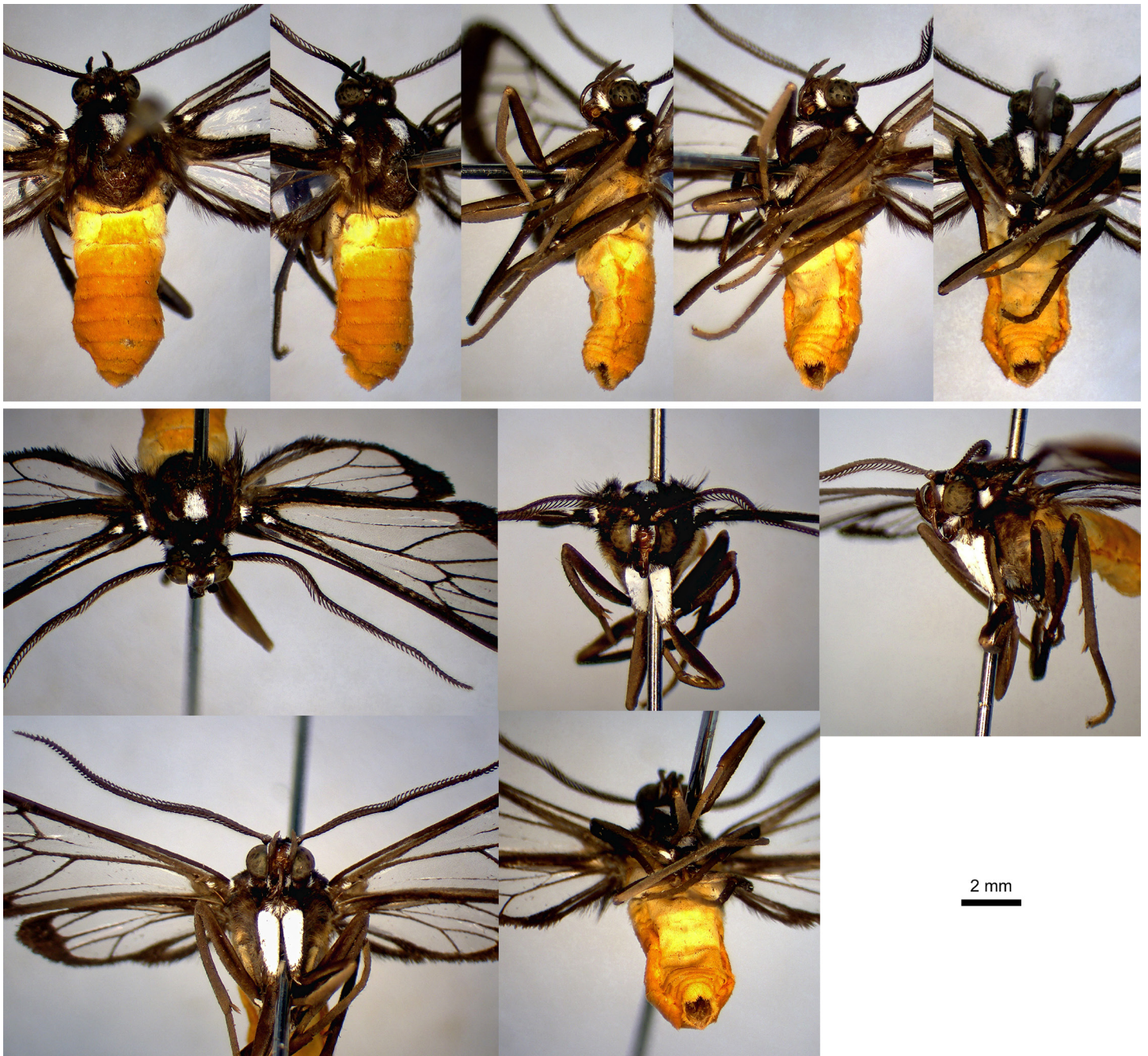
- Appendix Fig. 1.** Details of male *Calonotos chalcipleura*
Appendix Fig. 2. Details of male *Calonotos tiburtus*
Appendix Fig. 3. Details of male *Cosmosoma klagesi*
Appendix Fig. 4. Details of male *Cosmosoma melathoracia*
Appendix Fig. 5. Details of male *Cosmosoma pytna*
Appendix Fig. 6. Details of male *Cosmosoma rubriscapulae*
Appendix Fig. 7. Details of male *Cosmosoma subflamma*
Appendix Fig. 8. Details of male *Hypocharis arimensis*.
Appendix Fig. 9. Details of male *Macrocneme aurifera*.
Appendix Fig. 10. Details of male *Macrocneme lades*
Appendix Fig. 11. Details of male *Macrocneme thyra*
Appendix Fig. 12. Details of male *Macrocneme thyridia*
Appendix Fig. 13. Details of male *Pleurosoma trinitatis*
Appendix Fig. 14. Details of male *Poliopastea maroniensis*
Appendix Fig. 15. Details of male *Poliopastea plumbea*
Appendix Fig. 16. Details of male *Poliopastea vittata*
Appendix Fig. 17. Details of male *Pseudomya melanthus*
Appendix Fig. 18. Details of male *Psoloptera leucosticta*
Appendix Fig. 19. Details of male *Rhynchopyga flavicollis*
Appendix Fig. 20. Details of male *Saurita perspicua*
Appendix Fig. 21. Details of female *Saurita perspicua*
Appendix Fig. 22. Details of male *Sphecosoma aurantiipes*
Appendix Fig. 23. Details of male *Xanthyda beebei*
Appendix Fig. 24. Details of female *Xanthyda beebei*



Appendix Fig. 1. Details of male *Calonotos chalcipleura*, Morne Bleu Ridge, Textel Road, ix.2021 (S. Alston-Smith) [MJWC, DNA-492, genitalia 1150].



Appendix Fig. 2. Details of male *Calonotos tiburtus*, above St Benedict's, MVL, 26.v.1981 (M.J.W. Cock) [MJWC, genitalia 1109].



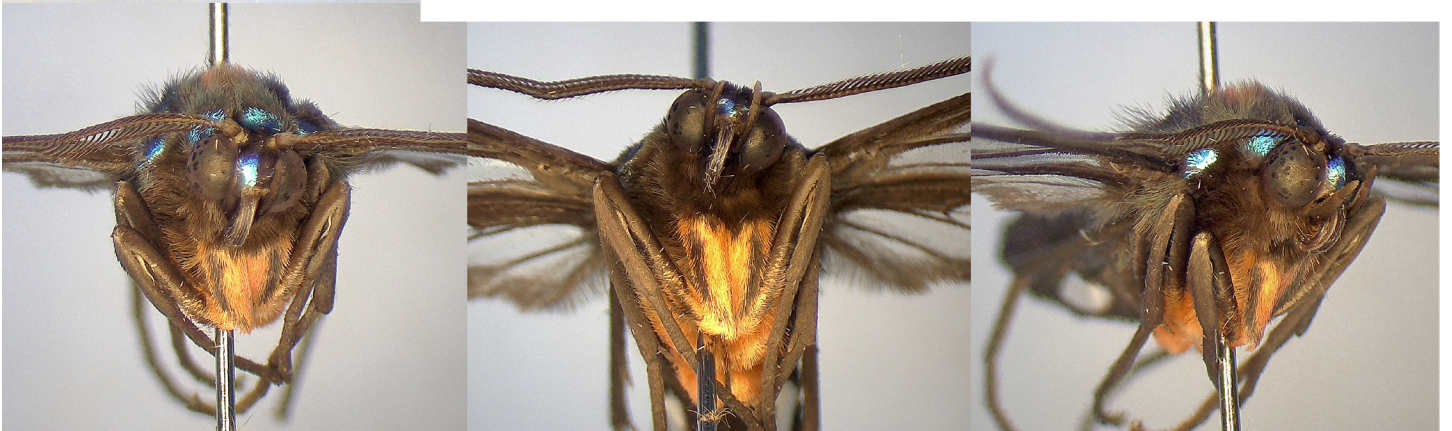
Appendix Fig. 3. Details of male *Cosmosoma klagesi*, Arima Valley, Simla, MVL, 18.iv.1981 (M.J.W. Cock) [MJWC, , genitalia 1167].

Overleaf

Appendix Fig. 4. Details of male *Cosmosoma melathoracia*, Morne Bleu, Textel Installation, at light, 9.xi.1978, (M.J.W. Cock) [MJWC, genitalia 1144].



2 mm

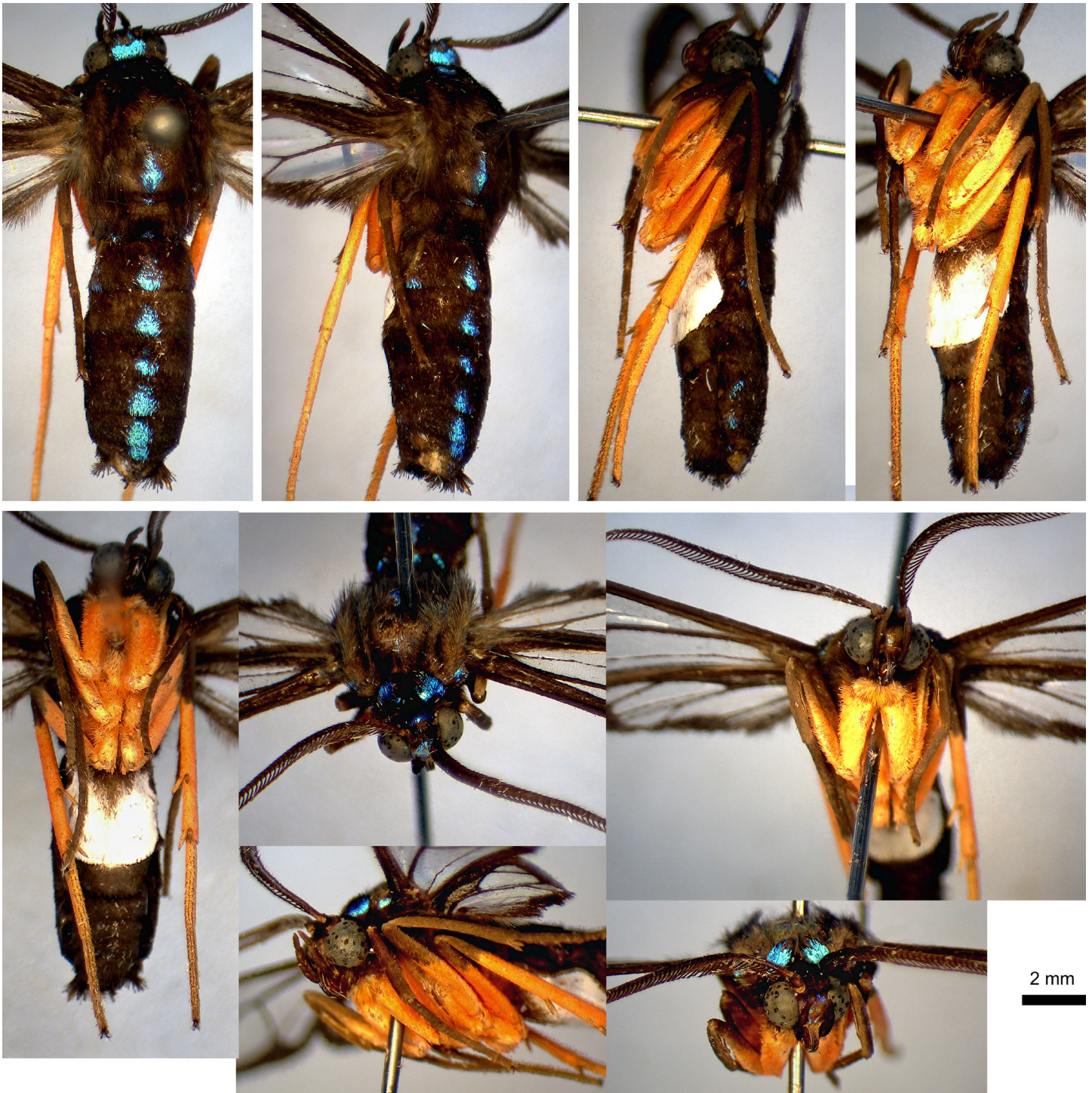




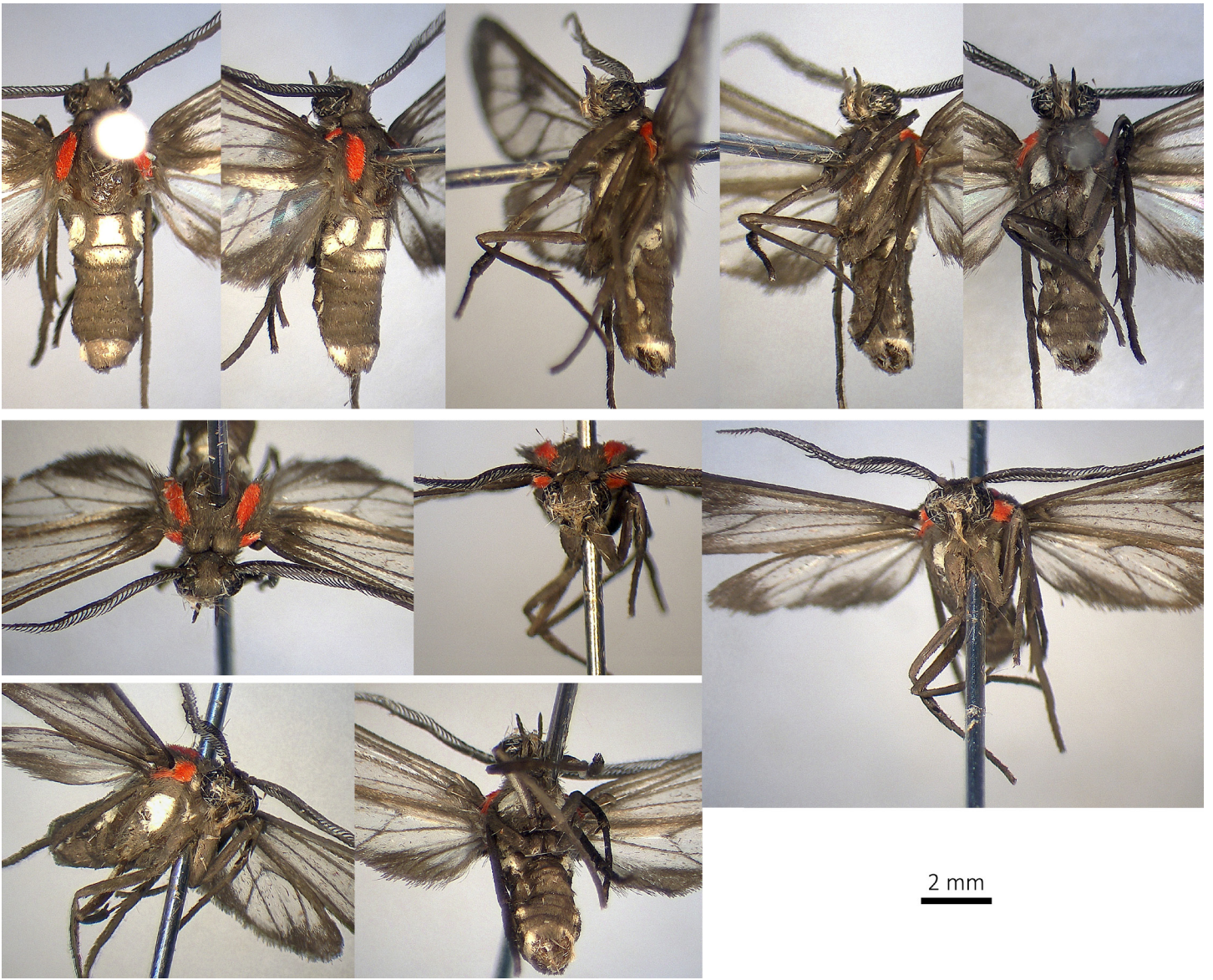
Appendix Fig. 5. Details of male *Cosmosoma pytna*, Rio Claro-Guayaguayare Road, milestone 6.5, MVL, 30.ix.1978 (M.J.W. Cock) [MJWC, genitalia 1168].



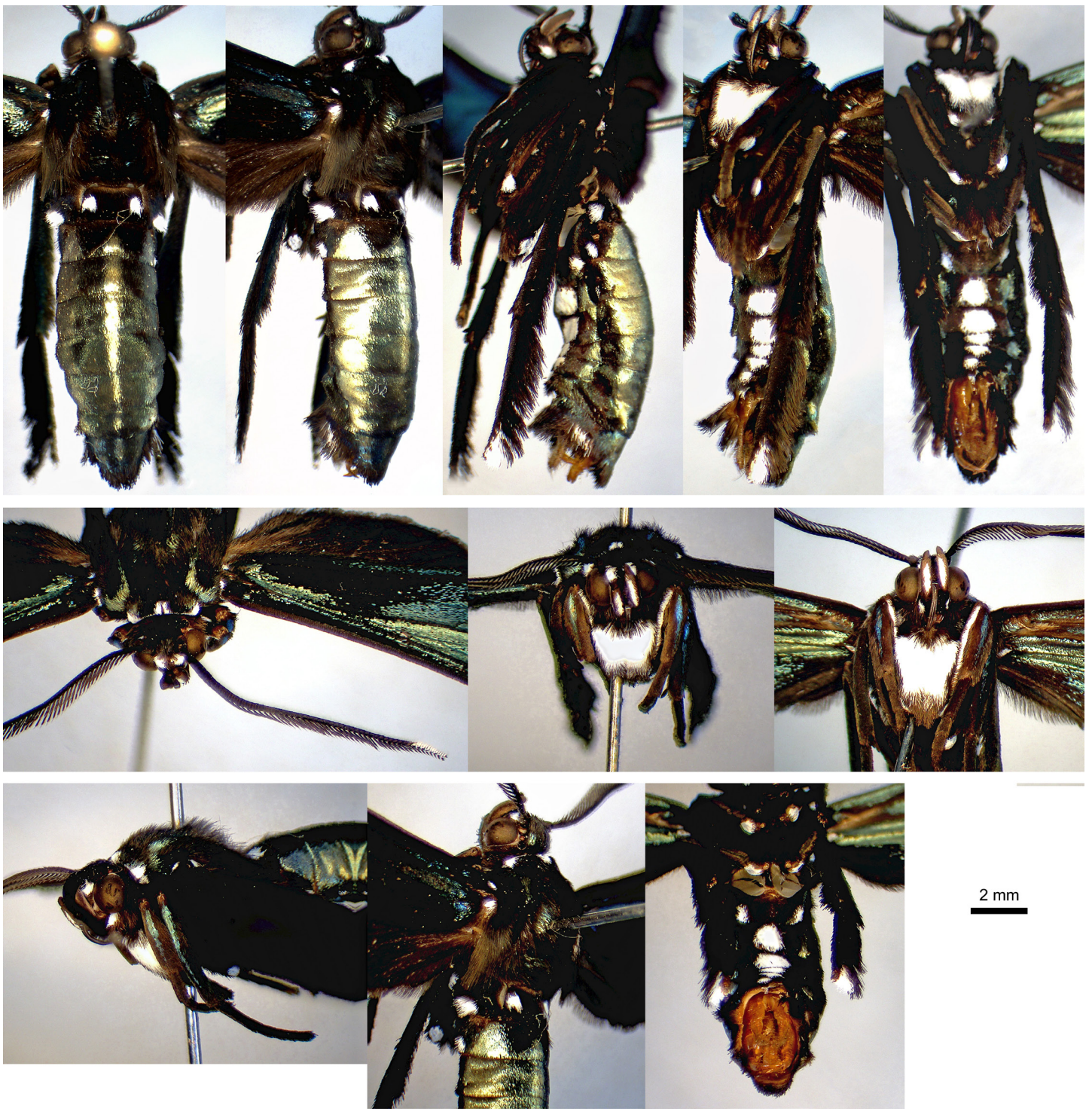
Appendix Fig. 6. Details of male *Cosmosoma rubriscapulae*, Parrylands, at light, ii.1980 (J.O. Boos) [MJWC, genitalia 1143].



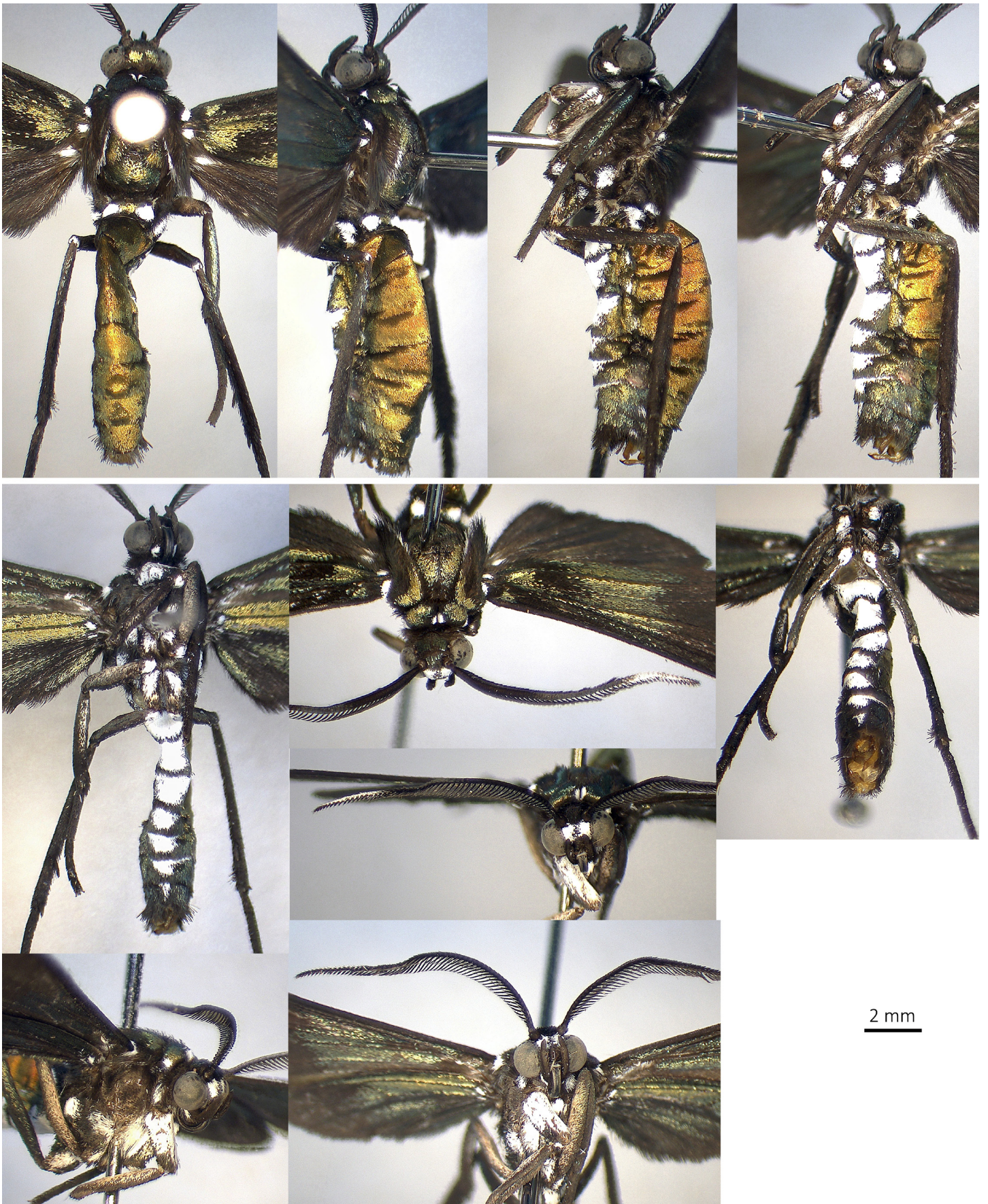
Appendix Fig. 7. Details of male *Cosmosoma subflamma*, Lalaja Ridge, MVL, 3.ix.1982 (M.J.W. Cock) [MJWC, genitalia 1164].



Appendix Fig. 8. Details of male *Hypocharis arimensis*, Brigand Hill, lighthouse security MVL lights, 17.i.2004 (M.J.W. Cock) [MJWC, , genitalia 1145].



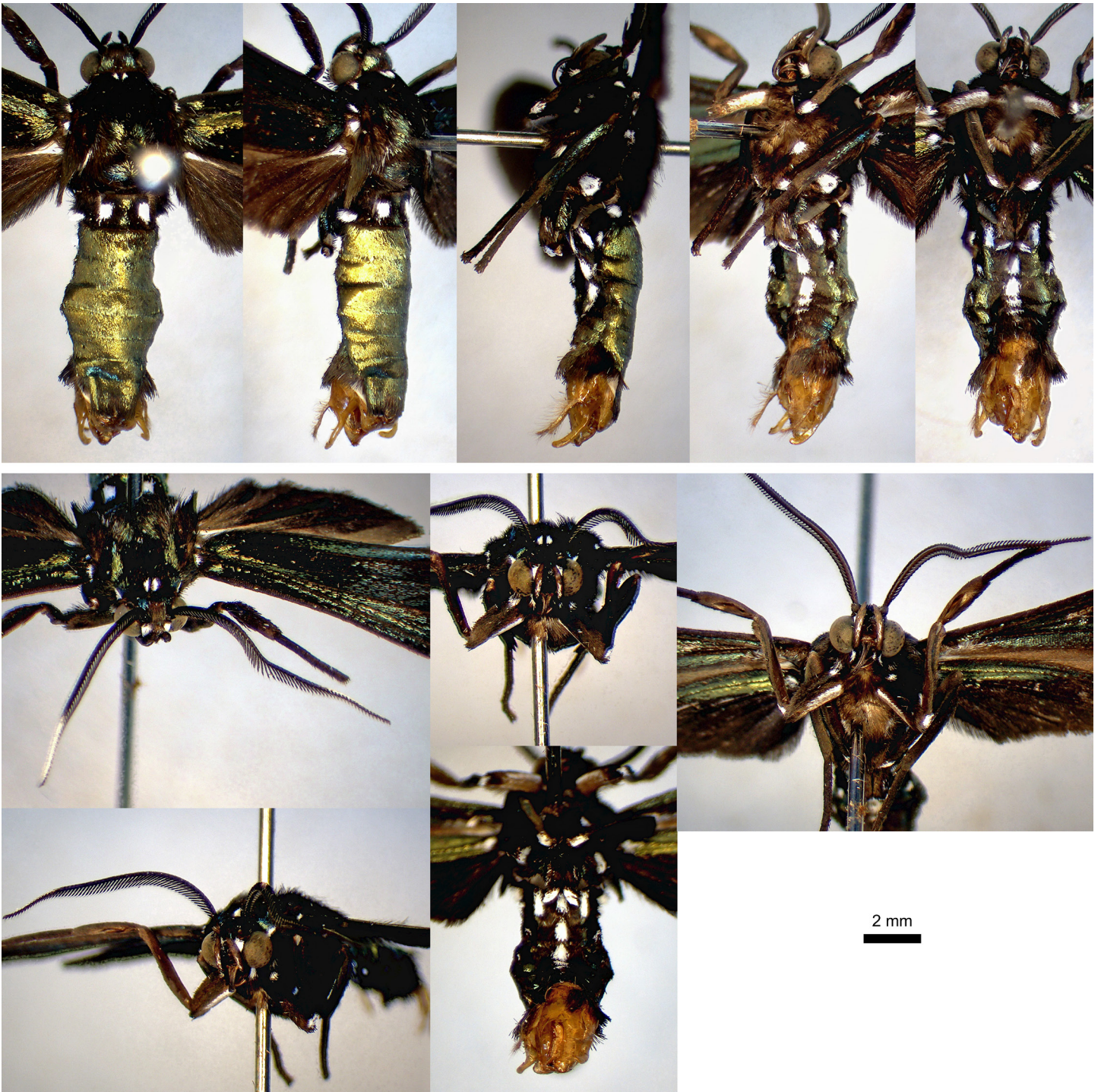
Appendix Fig. 9. Details of male *Macrocneme aurifera*, Port of Spain, Upper Lady Chancellor Road, 28.i.1979 (M.J.W. Cock) [MJWC, genitalia 1165].



Appendix Fig. 10. Details of male *Macrocneme lades*, Parrylands, on flowers of *Austroeupatorium*, 29.ix.2019 (J. Morrall) [MJWC, genitalia 1146, DNA 358; BOLD:AAA1397].



Appendix Fig. 11. Details of male *Macrocneme thyra*, Lalaja, on eupatorium flowers, 28.ix.2019 (J. Morrall) [MJWC, DNA 349-354, genitalia 1147].



Appendix Fig. 12. Details of male *Macrocneme thyridia*, Curepe, MVL, 2.xi.1979 (M.J.W. Cock) [MJWC, genitalia 1166].



Appendix Fig. 13. Details of male *Pleurosoma trinitatis*, St. Benedict's, to *Heliotropium*, 5.v.1981 (M.J.W. Cock) [MJWC, genitalia 1120].



Appendix Fig. 14. Details of male *Poliopastea maroniensis*, Morne Bleu, Textel Installation, at light, 4.ii.1979 (M.J.W. Cock) [MJWC, genitalia 1112].



Appendix Fig. 15. Details of male *Poliopastea plumbea*, Curepe, MVL, 31.v.1979 (M.J.W. Cock) [MJWC, genitalia 1111].



Appendix Fig. 16. Details of male *Poliopastea vittata*, Curepe, MVL, 23.i.1979 (M.J.W. Cock) [MJWC, genitalia 1113].



Appendix Fig. 17. Details of male *Pseudomya melanthus*, Curepe, MVL, 20.v.1979 (M.J.W. Cock) [MJWC, genitalia 1156].



Appendix Fig. 18. Details of male *Psoloptera leucosticta*, Inniss Field, MVL, 17.v.1999 (M.J.W. Cock) [MJWC, genitalia 1148].



Appendix Fig. 19. Details of male *Rhynchopyga flavicollis*, Fort George, to *Heliotropium*, 8.viii.1981 (M.J.W. Cock) [MJWC, genitalia 1119].



Appendix Fig. 20. Details of male *Saurita perspicua*, Inniss Field, MVL, 17.v.1999 (M.J.W. Cock) [MJWC, genitalia 1117].



Appendix Fig. 21. Details of female *Saurita perspicua*, Inniss Field, MVL: ♀ 17.v.1999 (M.J.W. Cock) [MJWC].



Appendix Fig. 22. Details of male *Sphecosoma aurantiipes*, St. Benedict's, to *Heliotropium*, 10.v.1982 (M.J.W. Cock) [MJWC, genitalia 1121].



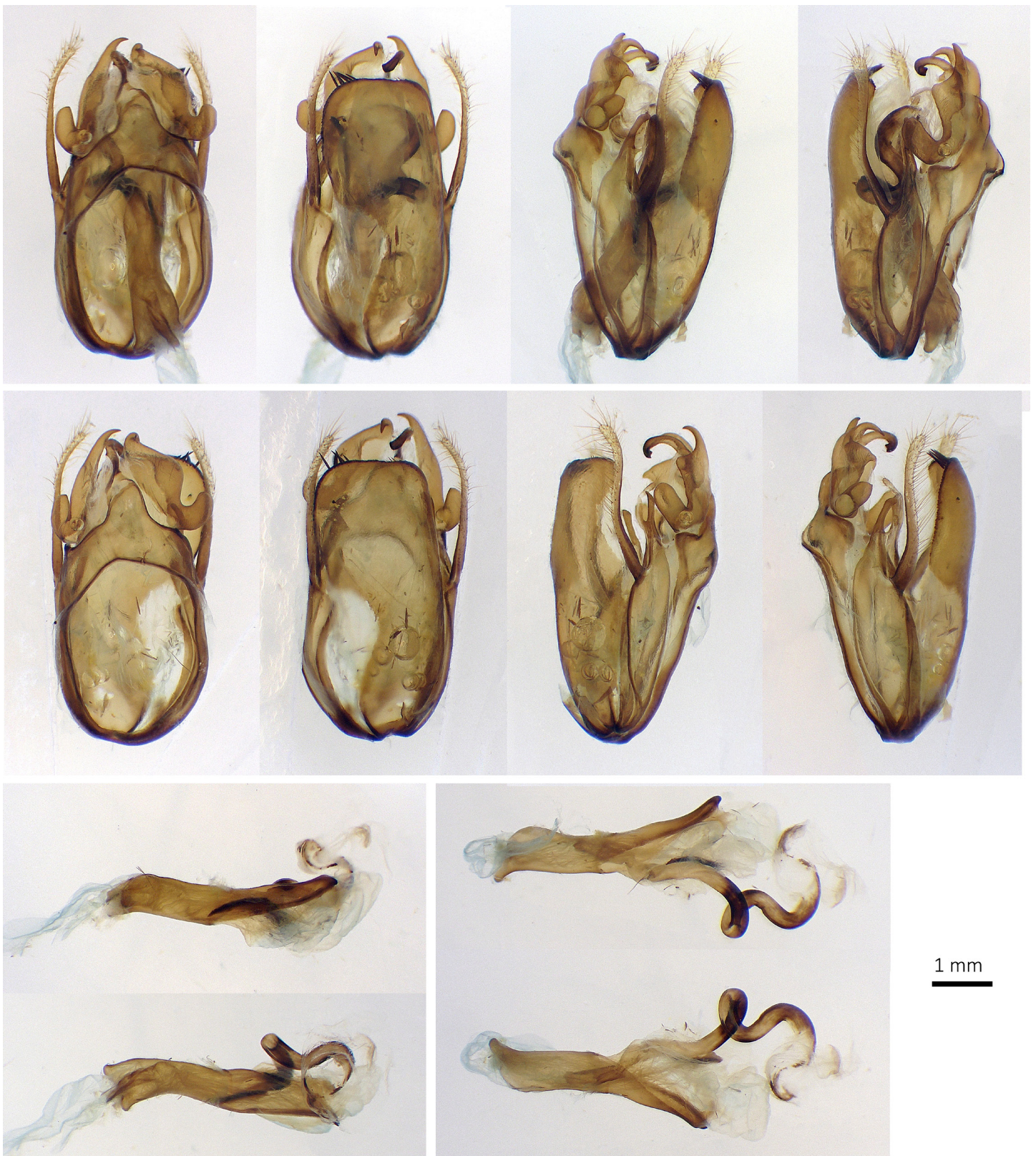
Appendix Fig. 23. Details of male *Xanthoda beebei*, Parrylands ^{Oilfield}, to *Heliotropium*, 25.vii.1981 (M.J.W. Cock) [MJWC, genitalia 1169].



Appendix Fig. 24. Details of female *Xanthya beebei*, Lalaja South Road, *Eupatorium* flowers, 25.ix.1982 (M.J.W. Cock) [MJWC, genitalia 1170].

Part 3. Genitalia figures.

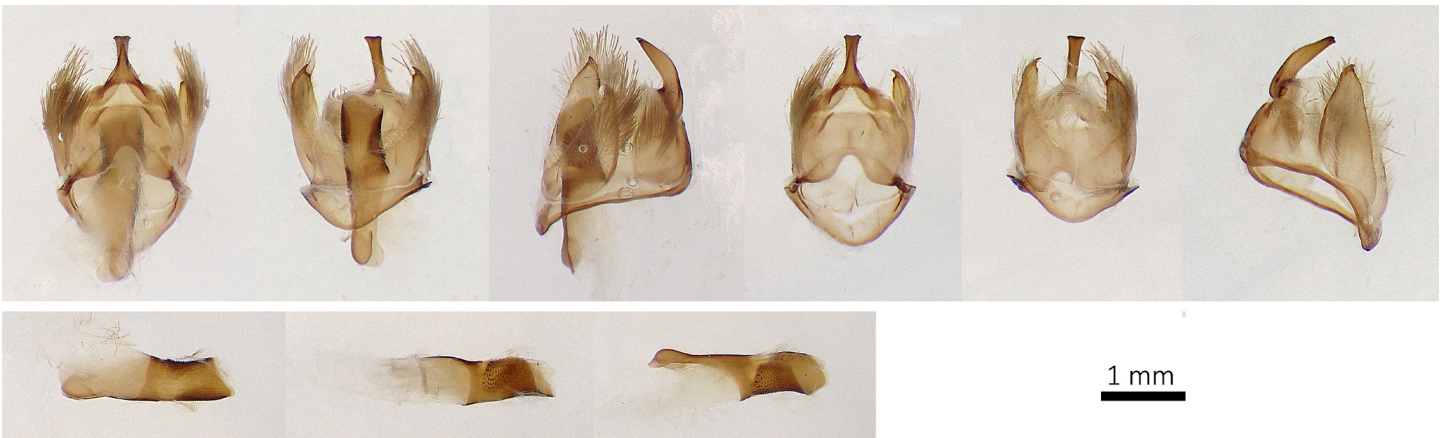
- Appendix Fig. 25.** Male genitalia *Calonotos chalcipleura*
Appendix Fig. 26. Male genitalia *Cosmosoma klagesi*
Appendix Fig. 27. Male genitalia *Cosmosoma melathoracia*
Appendix Fig. 28. Male genitalia *Cosmosoma rubriscapulae*
Appendix Fig. 29. Male genitalia *Cosmosoma subflamma*
Appendix Fig. 30. Male genitalia *Hypocharis arimensis*
Appendix Fig. 31. Male genitalia *Macrocneme lades*
Appendix Fig. 32. Male genitalia *Macrocneme thyra*
Appendix Fig. 33. Male genitalia *Pleurosoma trinitatis*
Appendix Fig. 34. Male genitalia *Poliopastea maroniensis*
Appendix Fig. 35. Male genitalia *Poliopastea plumbea*
Appendix Fig. 36. Male genitalia *Poliopastea vittata*
Appendix Fig. 37. Male genitalia *Pseudomya melanthus*
Appendix Fig. 38. Male genitalia *Psoloptera leucosticte*
Appendix Fig. 39. Male genitalia *Rhynchopyga flavicollis*
Appendix Fig. 40. Male genitalia *Saurita perspicua*
Appendix Fig. 41. Male genitalia *Sphecosoma aurantiipes*



Appendix Fig. 25. Male genitalia *Calonotos chalcipleura*, Morne Bleu Ridge, Textel Road, ix.2021 (S. Alston-Smith) [MJWC, DNA-492, genitalia 1150].



Appendix Fig. 26. Male genitalia *Cosmosoma klagesi*, Arima Valley, Simla, MVL, 18.iv.1981 (M.J.W. Cock) [MJWC, genitalia 1167].



Appendix Fig. 27. Male genitalia *Cosmosoma melathoracia*, Morne Bleu, Textel Installation, at light, 9.xi.1978 (M.J.W. Cock) [MJWC, genitalia 1144].



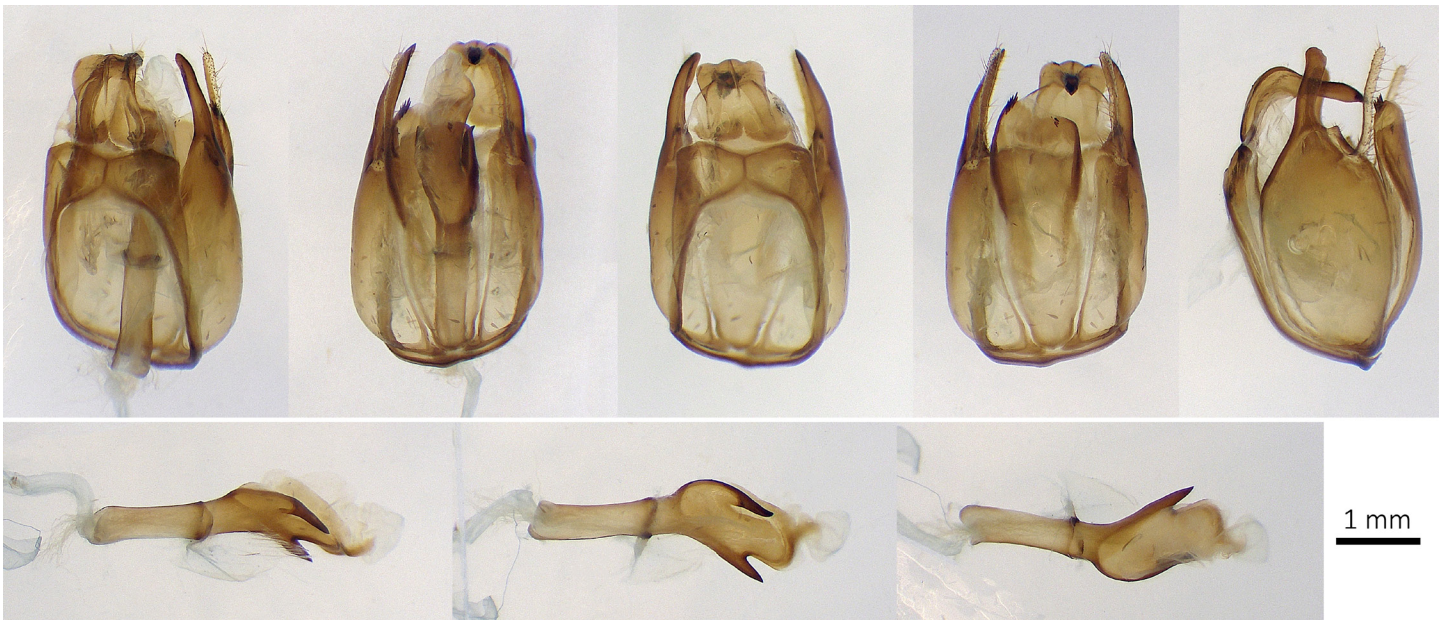
Appendix Fig. 28. Male genitalia *Cosmosoma rubriscapulae*, Parrylands, at light, ii.1980 (J.O. Boos) [MJWC, genitalia 1143].



Appendix Fig. 29. Male genitalia *Cosmosoma subflamma*, Lalaja Ridge, MVL, 3.ix.1982 (M.J.W. Cock) [MJWC, genitalia 1164].



Appendix Fig. 30. Male genitalia *Hypocharis arimensis*, Brigand Hill, lighthouse security MVL lights, 17.i.2004 (M.J.W. Cock) [MJWC, genitalia 1145].



Appendix Fig. 31. Male genitalia *Macrocneme lades*, Parrylands, on flowers of *Austroeupatorium*, 29.ix.2019 (J. Morrall) [MJWC, genitalia 1146, DNA 358; BOLD:AAA1397].



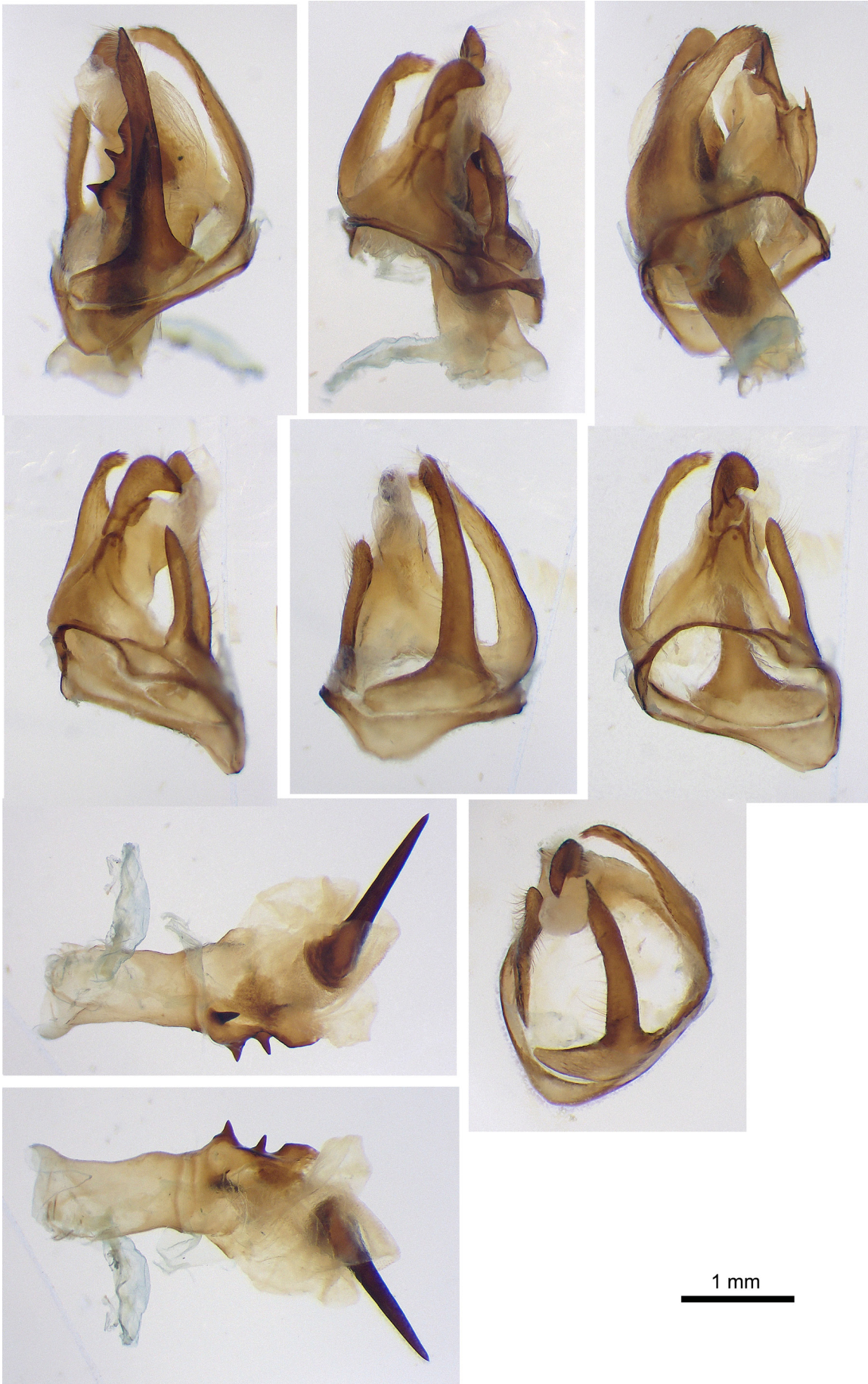
Appendix Fig. 32. Male genitalia *Macrocneme thyra*, Lalaja, on eupatorium flowers, 28.ix.2019 (J. Morrall) [MJWC, DNA 349-354, genitalia 1147].

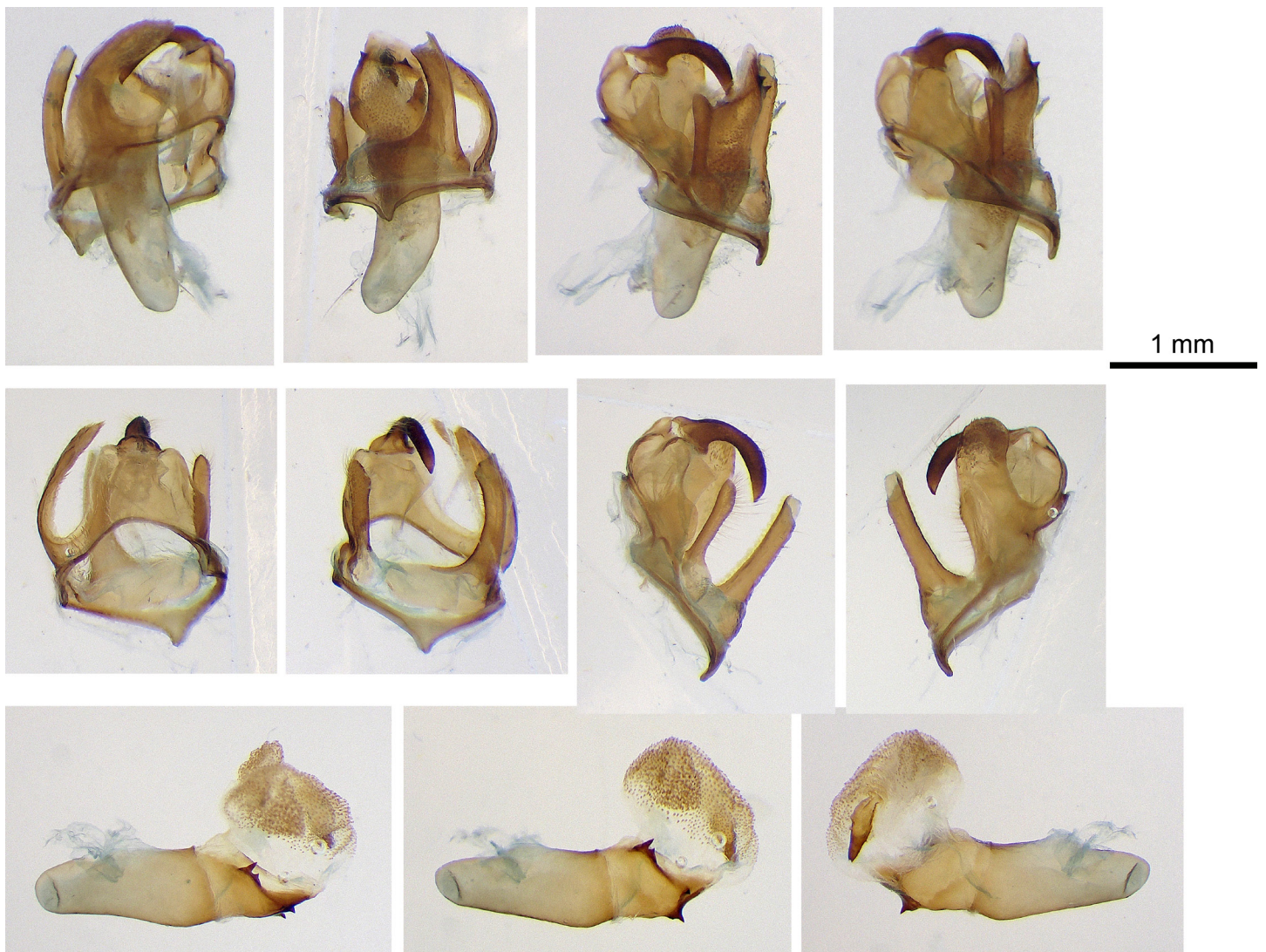


Appendix Fig. 33. Male genitalia *Pleurosoma trinitatis*, St. Benedict's, to *Heliotropium*, 5.v.1981 (M.J.W. Cock) [MJWC, genitalia 1120].

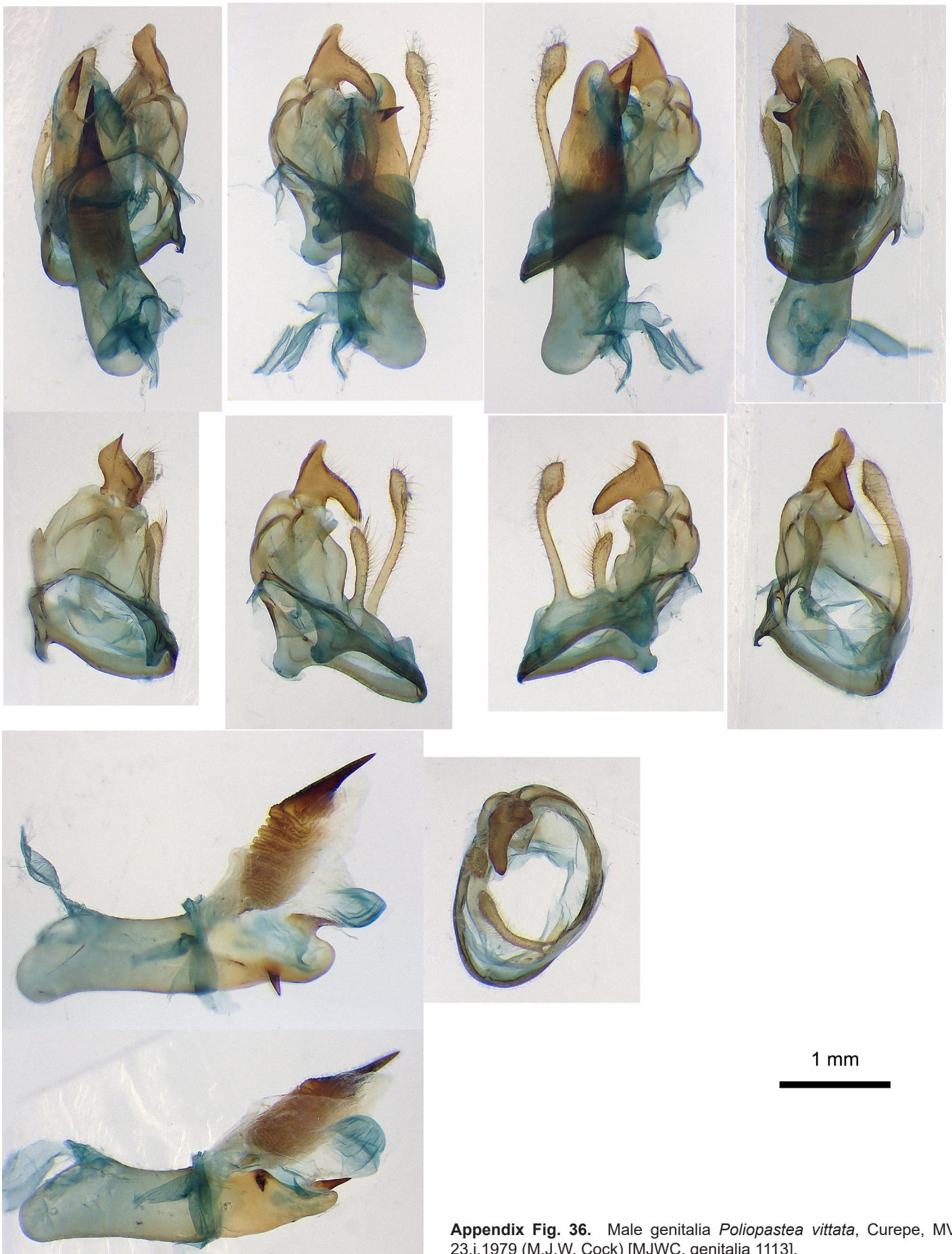
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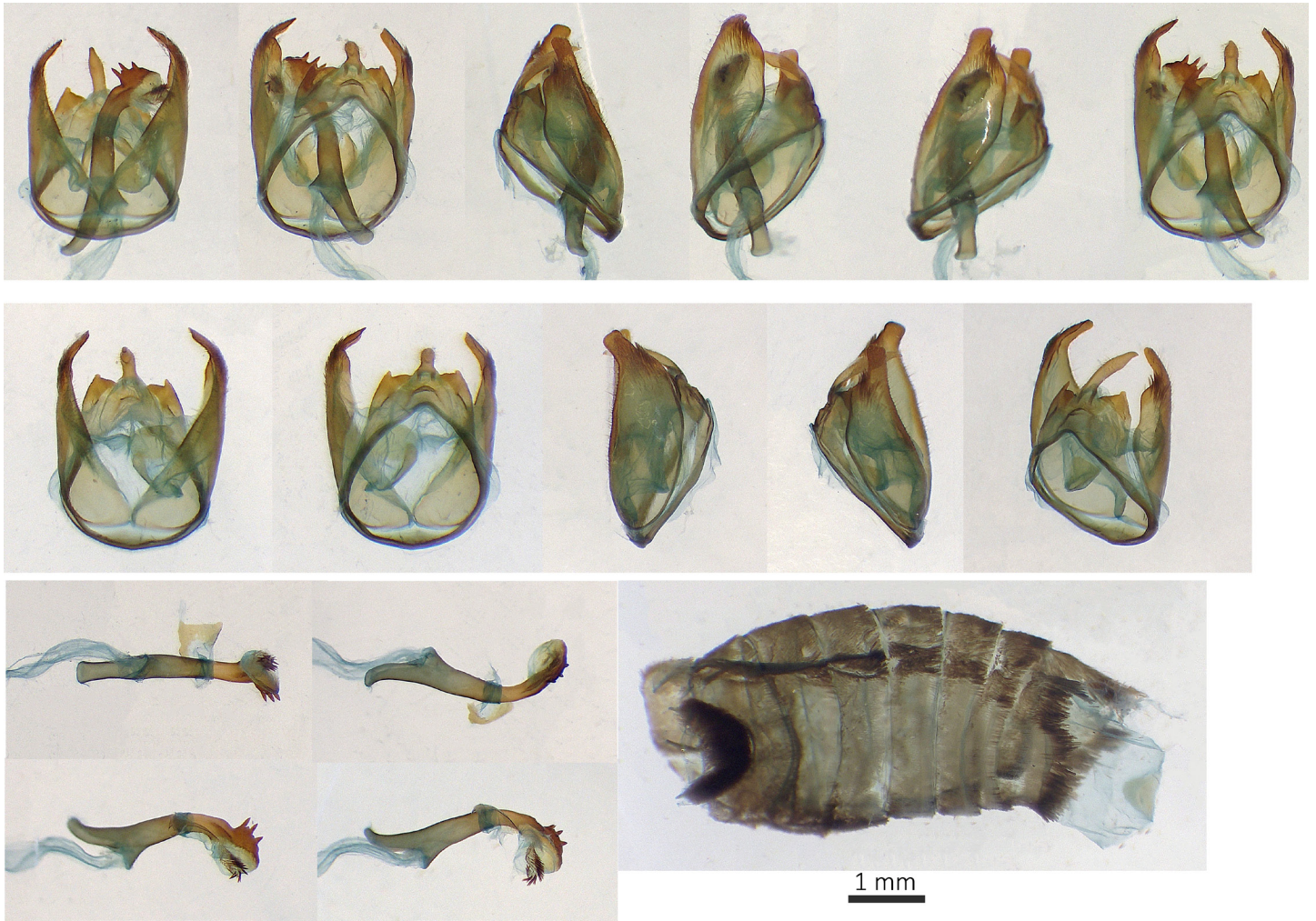
Appendix Fig. 34. Male genitalia *Poliopastea maroniensis*, Morne Bleu, Textel Installation, at light, 4.ii.1979 (M.J.W. Cock) [MJWC, genitalia 1112].



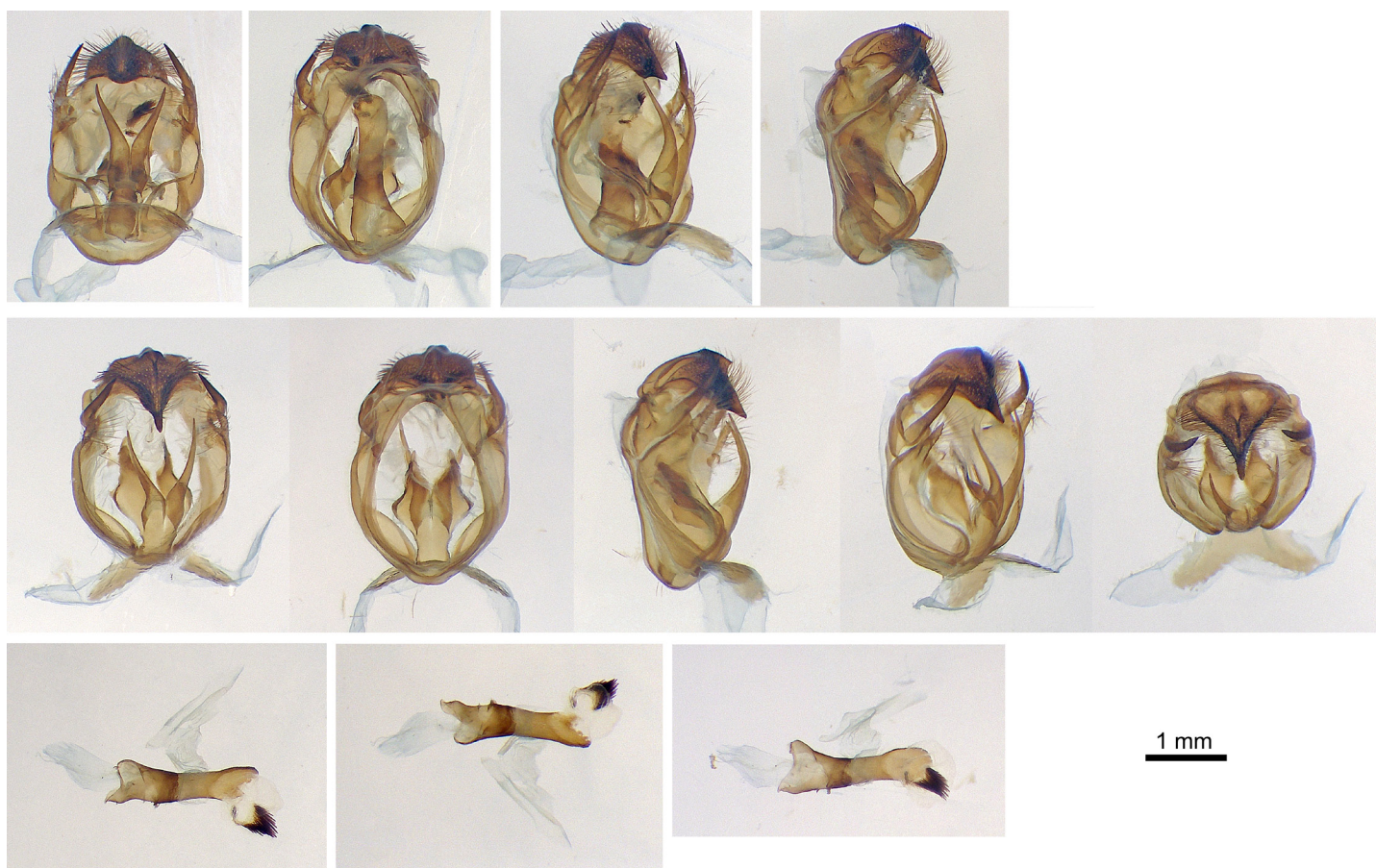


Appendix Fig. 35. Male genitalia *Poliopastea plumbea*, Curepe, MVL, 31.v.1979 (M.J.W. Cock) [MJWC, genitalia 1111].





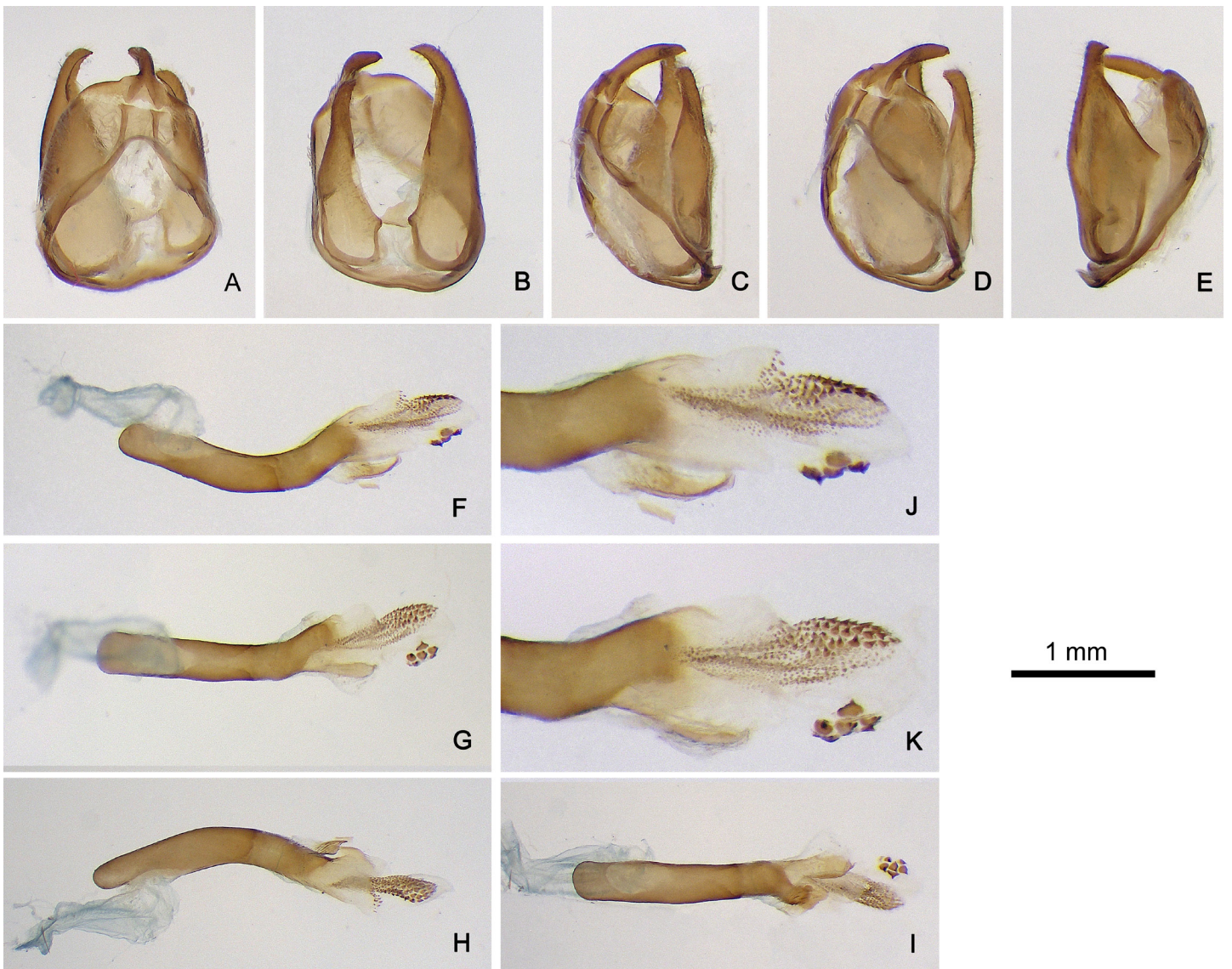
Appendix Fig. 37. Male genitalia *Pseudomya melanthus*, Curepe, MVL, 20.v.1979 (M.J.W. Cock) [MJWC, genitalia 1156].

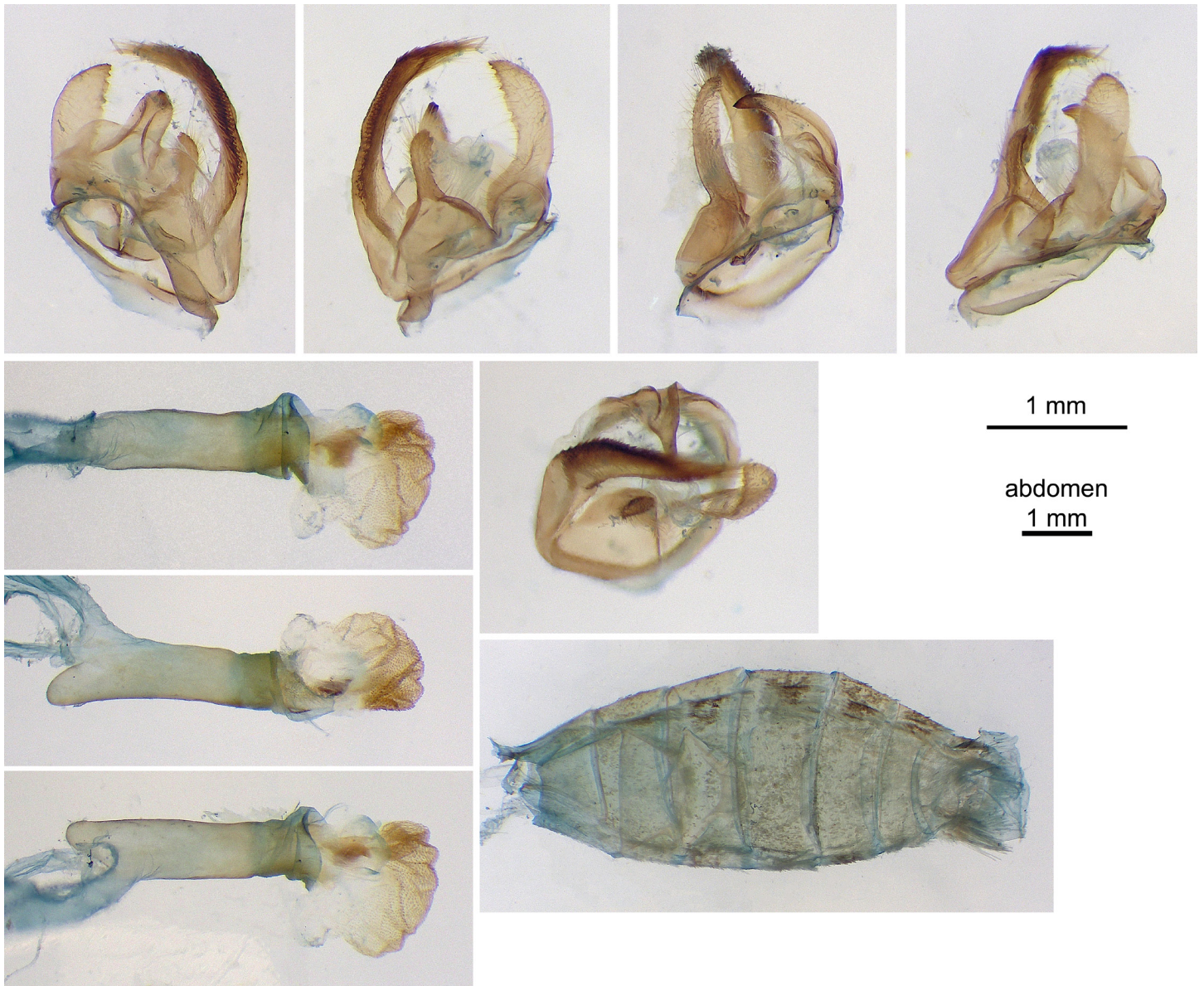


Appendix Fig. 38. Male genitalia *Psoloptera leucosticta*, Inniss Field, MVL, 17.v.1999 (M.J.W. Cock) [MJWC, genitalia 1148].



Appendix Fig. 39. Male genitalia *Rhynchopyga flavicollis* (morph with white forewing spot), Fort George, to *Heliotropium*, 8.viii.1981 (M.J.W. Cock) [MJWC, genitalia 1119].





Appendix Fig. 41. Male genitalia *Sphecosoma aurantipes*, St. Benedict's, to *Heliotropium*, 10.v.1982 (M.J.W. Cock) [MJWC, genitalia 1121].