

A TRIBUTE TO PROF. DR. LAMBERTUS JOHANNES TOXOPEUS, A CENTURY OF APPRECIATION

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ABSTRACT

Prof. Dr. Lambertus Johannes Toxopeus, a Dutch entomologist, was born, worked, and died in Indonesia. He was a Lepidoptera specialist and published 68 papers, describing two tribes, five subtribes, 26 genera and 147 butterfly species group taxa between 1922–1951. We gleaned from the literature that he was honored with eponyms in one family, seven genera and at least 169 species or subspecies, mostly arthropods, but also a reptile, birds, mammals, mollusks, and plants. This represents an average of one or two species named after him every year during the last century, mostly collected by himself from very fruitful expeditions throughout Sundaland, Buru Island and the highlands of Papua Province, Indonesia. His work contributed significantly to the knowledge of Southeast Asian biodiversity.

Key words: Arthropoda, eponyms, Lepidoptera, productivity, tribute

INTRODUCTION

Being rich in biodiversity, Indonesia has become the focus for biodiversity study and conservation. Sadly, appreciation of the biodiversity richness has been largely concentrated on large, beautiful, and charismatic species such as tigers, rhinoceroses, monkeys, and birds of paradise. The United Nations proclaimed 22nd May 2025 as the International Day for Biological Diversity, and we present here a tribute to Prof. Dr. Lambertus Johannes Toxopeus, a scientist who was born, worked, and passed away in Indonesia. His contributions from a century ago continue to have a huge impact on the body of knowledge in understanding the diversity, biogeography, and evolution of Indonesian arthropods.

Lambertus Johannes Toxopeus was born in Tuban, East Java, on 8 September 1894. Little is known about his early years, except that he had a younger sister who spent most of her time in Gröningen, the Netherlands. From a young age, Toxopeus had an unceasing interest in biodiversity, and in butterflies in particular. He was an enthusiastic naturalist and during his

youth was known to collect plants and practically every kind of organism from all over Java. To support his interest in butterfly systematics and evolution, he pursued further education and studied at Amsterdam University from undergraduate years up to a doctoral degree under the auspices of Professor Cornelis Jacob van der Klaauw. For his research project he returned to work in Indonesia (1921–1922). Toxopeus was then commissioned to work under the Royal Dutch Geographical and Treub Society expedition, for scientific research in the western Moluccas (Buru Island, Maluku). Although primarily interested in insects, he also collected plants and made an impressive collection of other natural history specimens on an island that had never been intensively studied before. During those two years he managed to obtain around 100.000 specimens, mainly insects, but also some spiders, crabs, mollusks, vertebrates, and plants. In 1934 he worked in Sumatra, and his collection demonstrated that he had travelled widely on the island, from Weh Island in the north, eastern coastal areas, some neighboring islands and to Mount Tanggamus in the south. He collected in Sulawesi during the months of June and July 1936, exploring south and central areas. Later, he participated as the leader of invertebrate collection in the important third Archbold Expedition in Netherlands New Guinea (Irian Jaya or Papua) in 1939–1941 exploring in the Central Mountain Range and Star Mountains in particular. He collected more than 100.000 specimens comprising about 341 families, chiefly insects but also some other taxa: spiders, freshwater lobsters, mammals, fishes, amphibians, reptiles, and birds. Based on his experiences, he was generally known as a Dutch entomologist and an authority on butterflies of the family Lycaenidae. Most of his work was based on Indonesian taxa, but he also studied species from the neighboring countries, including some from the Indian continent in South Asia. Details of areas visited by Toxopeus where he collected some plants all over Indonesia can be found in Cyclopaedia of Malesian Collectors (M.J. van Steenis Kruseman online).

In 1942, he joined the army during World War II as a member of KNIL (Koninklijke Nederlandsch–Indische Leger) at Semplak, Bogor and subsequently became a prisoner of war during the Japanese occupation. He was first jailed in Bogor or Buitenzorg (Dec. 1942–Apr. 1943), and subsequently interned in the prisoner of war camps of Bogor, Cimahi, or Jakarta (1943–1946). He went back to the Netherlands twice in 1947 and 1949 for health issues. He had planned to stay there in 1948, but eventually returned to Java.

MATERIALS AND METHODS

We traced specific or generic organism names related to L. J. Toxopeus after 1920, via websites and most available insect checklist databases as well as many lists of references in

publications to which he had contributed based on name, localities and taxa. All papers that might mention his name, concerning his expeditions all over Indonesia, South and Southeast Asia were scrutinized as many species names only appeared in the original description as a new species and have not yet been referred to in any publications. Publications from numerous scientists who had been working with his collection were also scanned for this work (Table 1 and 2).

RESULTS

Our research established that Toxopeus's first publication was as early as 1919 (see references). Three years later he published his first new name, the butterfly genus *Udara* (which signifies air in the Indonesian language). During his doctoral study, he published and described about 100 forms of various categories, from Tribes to subspecies and forms. Seven new genera were published after his dissertation, and only one among them was before World War II. Among the described taxa after his dissertation, eleven species group taxa were published before World War II, four during and 51 others later. What is notable from his dissertation is that his work is not merely concerned with systematics. As shown in the title of his dissertation (in English translation "The species as a function of place and time, tested against the Lycaenidae of the ...), he postulated an evolutionary process regarding variation as a function of place and time, mirroring the work of Alfred Russel Wallace (in 1854–1857) around the same geographical area about 70 years earlier but with detailed emphasis within a single butterfly family, Lycaenidae. He proposed a new grouping of species (*grek*) to explain how several species can be lumped into a larger group, not necessarily a subgenus or a superspecies, to explain evolutionary affinities without claiming systematic or taxonomic value (Toxopeus, 1930, 1950e).

Toxopeus's most productive period was from 1921 to 1941 when he travelled widely. His productivity diminished thereafter due to World War II. However, he still managed to publish numerous papers and described many more species based on his exhaustive collections from previous expeditions. We managed to identify a total of two tribes, five subtribes, 26 genera and 147 butterfly species or subspecies that were described by him (Table 1). The last five *Amathusia* species were published posthumously in the journal *Idea* by W. Roepke (Toxopeus, 1951c,d). Approximately 40 forms are potential synonyms of other known species. He described an average of six to seven new taxa every year during his 30 years of work, excluding years during World War II (1942–1947, see References).

He was a plant collector but also developed an unrelenting interest in the systematics and evolution of butterflies. He attended the University of Amsterdam for his undergraduate years and was subsequently appointed as a teacher in the Netherlands in 1923, thereafter he pursued his postgraduate education. After gaining his doctoral degree in biology in 1930 with his thesis “De soort als functie van plaats en tijd getoetst aan de Lycaenidae van Australaziotisch gebied”, he returned to Java, Indonesia, where he served in teaching positions at several secondary schools and taught biology at the Agriculture Faculty, University of Indonesia in Bogor. Finally in 1946, he was officially appointed as Lecturer in Zoology at the University of Indonesia in Bandung (Bandoeng), the institution then known as the Technische Hoogeschool te Bandoeng (THS), currently known as Institut Teknologi Bandung (ITB). He travelled frequently between Jakarta, Bogor and Bandung until July 1949, when he was appointed as a Professor of Zoology in Bandung, and also made research visits to overseas museums. In addition, he was also appointed as the secretary of the Zoological Garden at Tamansari Street, opposite the University campus. From an old newspaper we discovered that he succeeded in bringing an elephant from South Sumatra for the Bandung Zoological Garden by chartering an airplane.

Toxopeus died as a result of a traffic accident on 21 April 1951 and is now virtually unknown to the present Indonesian academic community. He regularly travelled to the university by bicycle was unfortunately hit by a car between Dipatiukur and Multatuli Street, near the campus, suffering damage to the base of his skull and did not survive the next day. Toxopeus died after less than two years of serving as a professor, leaving a wife and seven children. We were unable to find his grave at the Pandu War Cemetery, Bandung, as the last person was buried there in 1949 and we assume that he was buried in a public Dutch Christian cemetery, which is no longer in existence. Three colleagues who also worked on butterflies lamented the loss of a brilliant and productive scientist in obituaries (Diakonoff, 1951; Lempke, 1951; Roepke, 1951, 1952). Since that time many entomologists and other scientists working with other groups of species honored him by describing new species and referring to him with the epithet of *toxopeusi* or many other variations. His contribution is immortalized by being named in at least one family (Araneae), seven genera (two genera of Lepidoptera, two of Hemiptera and two of Orthoptera and one in arachnid), 169 species or subspecies, most of them are arthropods. We can further divide the records into 61 Coleoptera species; 26 Lepidoptera; 18 Hemiptera, 19 Diptera; ten Hymenoptera, eight Araneae, three Orthoptera and three Homoptera species. We recorded two Neuroptera, two Siphonaptera, another two Blattodea and one Odonata species. The non-Arthropoda species consists of three birds, two gastropods, two

mammals, and a reptile, and in addition, five plants species were named after him (Table 2). During the first decade of his scientific activity (1920–1931), 50 taxa were named after him, mostly from the results of the Buru expedition. As the Archbold expedition ended immediately before the breakout of World War II, few papers mentioned his contribution (19 in 1931–1940, and five right after the World War II–1950) but he received full recognition after his demise due to the accessibility of the 3rd Archbold Expedition material, by being recognized in at least 86 taxa or a total of 166 taxa at the end of 20th century and 15 more in this century.

DISCUSSION

When examined in detail, Toxopeus eponyms are represented by 91 taxa from Papua compared to 62 forms from Buru and a further 20 names from across Southeast Asia (Table 2). Concerning his own work, he published 45 new forms from Java, 33 taxa from Sumatra, 18 others from Borneo, 28 taxa from Papua and 14 forms from Wallacea (but sadly, none from Buru). In addition, he named 24 taxa from outside Indonesia (Brunei, Malaysia, Philippines, Myanmar [Burma], Sri Lanka India, the Solomon Islands, and Papua New Guinea) (Table 1). Apparently, he already has detailed views on lycaenid taxonomy and evolution and felt no urgency to include the results of the Buru Expedition in his dissertation. This fact is also evident in that he described 18 taxa from Borneo that were already in the collection when he had never set foot on that island. Another reason is that the Buru collections were all in Leiden and he only made few notes and little or no access to study them further from Indonesia. He only published minor notes regarding the Buru expedition consisting mainly of details of the expedition itself and basic data relating to the biodiversity of various animals other than butterflies (Toxopeus, 1922, 1924a,b, 1925a-c; 1928b; 1929a,b). Conversely, he seems to have had full access to the 3rd Archbold collection as he published numerous forms (Toxopeus, 1938-1940a,b,e,f, 1941, 1948, 1949, 1950d,e).

Toxopeus's early death came at a time when he was still active (he was 57 when he died), and clearly had many plans for further descriptions and taxonomic work. His later life was fundamentally disrupted by the second World War (1939–1945) and the many manuscript names he left in museum collections clearly illustrated that he planned more work and that much of this work remained unfinished. Subsequent workers often used his manuscript names. Several specimens with the manuscript names *Amblypoda arjuna* and *A. kangeana* deposited by Toxopeus in the Amsterdam Museum were subsequently described as *Arhopala camdana arjuna* and *A. c. kangeana* by Niewenhuis, 1969. Another example, *Redoa lunulata* (Erebidae) labelled by Toxopeus in the Naturalis Biodiversity Collection, Leiden was subsequently named

as *Redoa lumulosa* (Mackey, 1984). The manuscript name ‘pyrodes’ found on a *Hypochrysops* specimen from Sulawesi became *Hypochrysops pyrodes* Cassidy, 2003, and specimens from Buru labelled ‘lato’ in the NHM, London, became *Hypochrysops anacletus lato* (Tennent & Rawlins, 2009). A series of a distinctive race of *Nacaduba cyanea* from Buru Island in the NHM, London and the Amsterdam Museum (now combined with the Naturalis Biodiversity Collection, Leiden) bore the Toxopeus manuscript name ‘sanane’ and were described as *Nacaduba cyanea sanane* (Tennent & Gassó Miracle, 2016). *Jamides rothschildi* was labelled in the Naturalis Biodiversity Collection, Leiden have been described as *Jamides aritai sabina* (Rawlins et al., 2014). A further series of specimens Toxopeus collected in the Baliem Valley, Indonesian New Guinea on the 3rd Archbold Expedition were named *Hypochrysops meeki toxopeusi* (Tennent & Müller, 2025). The manuscript name *cyclophthalma*, *celebica*, *bonthainica* were all found to be synonymous with names already published. The presence of secondary type material (and some holotypes) of many taxa in the Museums of Amsterdam and Leiden (now combined) indicate that Toxopeus deposited a significant proportion of his undescribed 'new' material in those institutions and without doubt intended to work on them in the future.

There are additional, as yet unidentified cases of Toxopeus manuscript names in European and other museums in the United States. These are examples of butterflies which Toxopeus had presumably seen, registered by him as being probably undescribed, and added names which he proposed to formally describe in due course. This project was interrupted by the Second World War and of course any plans Toxopeus may have had were brought to an end when he died early in 1951.

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Table 1. List of taxa named by L. J. Toxopeus (1922–1951, see also References).

Catochrysopsini Toxopeus, 1929
Lycaenopsini Toxopeus, 1929
Everini Toxopeus, 1929
Lampidini Toxopeus, 1929
Lycaenesthini Toxopeus, 1929
Polyommagini Toxopeus, 1929
Spalgini Toxopeus, 1929
<i>Acytolepis</i> Toxopeus, 1927; TS: <i>Polyommatus puspa</i> Horsfield, 1828; TL: Java
<i>Akasinula</i> Toxopeus, 1928; TS: <i>Polyommatus akasa</i> Horsfield, 1828; TL: Java
<i>Bradytera</i> Toxopeus, 1948; TS: <i>Euproctis lodra</i> Moore, 1859; TL: Java
<i>Candidata</i> Toxopeus, 1948; TS: <i>Leucoma subargentea</i> Felder, 1861; TL: S. Maluku
<i>Catopyrops</i> Toxopeus, 1929; TS: <i>Lycaena ancyra</i> Felder, 1860; TL: Ambon
<i>Cosmolyce</i> Toxopeus, 1927; TS: <i>Papilio boeticus</i> Linnaeus, 1767; TL: Algeria
<i>Discolampa</i> Toxopeus, 1929; TS: <i>Lycaena ethion</i> Westwood, 1851; TL: Sri Lanka
<i>Imaida</i> Toxopeus, 1948; TS: <i>Imaida sinuata</i> Toxopeus, 1948; TL: Borneo
<i>Ionolyce</i> Toxopeus, 1929; TS: <i>Ionolyce helicon javanica</i> Toxopeus, 1929; TL: Java
<i>Loepantheraea</i> Toxopeus, 1940; TS: <i>Loepantheraea rosieri</i> Toxopeus, 1940; TL: Sumatra
<i>Monodontides</i> Toxopeus, 1927, 1928; TS: <i>Nacaduba argioloides</i> Rothschild, 1915; TL: Papua
<i>Moorea</i> Toxopeus, 1927 (non Hampson, 1894); TS: <i>Lycaena quadriplaga</i> Snellen, 1892; TL: Malay Peninsula
<i>Miccotrogia</i> Toxopeus, 1948; TS: <i>Euproctis tamsi</i> Collenette, 1932; TL: Selangor
<i>Micronygmia</i> Toxopeus, 1948; TS: <i>Artaxa linta</i> Moore, 1860; TL: Java
<i>Oreolyce</i> Toxopeus, 1927; TS: <i>Lycaena quadriplaga</i> Snellen, 1892; TL: Malay Peninsula
<i>Peplodyta</i> Toxopeus, 1929 (repl. <i>Pepliphorus</i> Hübner [1819]); TS: <i>Papilio cyanea</i> Cramer, 1775; TL: Australia
<i>Petrelaea</i> Toxopeus, 1929; TS: <i>Petrelaea dana varia</i> Toxopeus, 1929; TL: Java
<i>Pronygmia</i> Toxopeus, 1948; TS: <i>Euproctis xanthopera</i> Hampson, 1897; TL: Khasi, India
<i>Psilochira</i> Toxopeus, 1948; TS: <i>Lymantria lineata</i> Walker, 1855; TL: Silhet, India
<i>Psychonotis</i> Toxopeus, 1930; TS: <i>Lycaena caelius</i> C. & R. Felder, 1860; TL: Aru
<i>Ptox</i> Toxopeus, 1928; TS: <i>Cyaniris catreus</i> de Nicéville, 1895; TL: W. Java
<i>Pycnophallium</i> Toxopeus, 1929; TS: <i>Polyommatus roxus</i> Godart, 1824; TL: Java
<i>Rhinelephas</i> Toxopeus, 1927; 1928; TS: <i>Lycaena cyanicornis</i> Snellen, 1892; TL: E. Java
<i>Udara</i> Toxopeus, 1922; TS: <i>Polyommatus dilectus</i> Moore, 1879; TL: Nepal
<i>Uranobothria</i> Toxopeus, 1927; TS: <i>Lycaenopsis celebica</i> Fruhstorfer, 1917; TL: S. Sulawesi
<i>Xanthonygmia</i> Toxopeus, 1948; TS: <i>Xanthonygmia oculata</i> Toxopeus, 1948; TL: Borneo
<i>Abisara echerius oenobarus</i> Toxopeus, 1929; TL: Weh
<i>Acytolepis puspa felderi</i> Toxopeus, 1927; TL: Kerala, India
<i>Adolias dirtea roepkei</i> Toxopeus, 1949; TL: W. Java
<i>Amathusia duponti</i> Toxopeus, 1951; TL: W. Java
<i>Amathusia fruhstorferi</i> Toxopeus, 1951; TL: Sumatra
<i>Amathusia lieftincki</i> Toxopeus, 1951; TL: Banten
<i>Amathusia ochrotaenia</i> Toxopeus, 1951; TL: Penang
<i>Amathusia rosieri</i> Toxopeus, 1951; TL: Sumatra
<i>Amblypodia anniella malangana</i> Toxopeus, 1927; TL: Java
<i>Amblypodia apidanus alter</i> Toxopeus, 1929; TL: Palembang
<i>Amblypodia apidanus ambigua</i> Toxopeus, 1929; TL: Sumatra
<i>Amblypodia apidanus anabas</i> Toxopeus, 1929; TL: Anambas

Amblypodia apidanus anthracophila Toxopeus, 1929; **TL:** Sumatra
Amblypodia apidanus astrophila Toxopeus, 1929; **TL:** Sumatra
Amblypodia narada pycnoptera Toxopeus, 1930; **TL:** Nias
Appias zonderwani Toxopeus, 1950; **TL:** Sulawesi
Arhopala leonina Toxopeus, 1930; **TL:** Papua
Arhopala leontodamus Toxopeus, 1930; **TL:** Papua
Arhopala telephus Toxopeus, 1930; **TL:** Papua
Biduanda thesmia javanica Toxopeus, 1932; **TL:** Java
Brahmaea celebica Toxopeus, 1939; **TL:** Sulawesi
Castalius ethion wehensis Toxopeus, 1929; **TL:** Weh
Catopyrops ancyr (subfestivus) altijavana Toxopeus, 1930; **TL:** Java
Catopyrops ancyr austrojavana Toxopeus, 1930; **TL:** E. Java
Catopyrops ancyr duplicata Toxopeus, 1930; **TL:** Sulawesi
Catopyrops ancyr nicevillei Toxopeus, 1930; **TL:** Sumatra
Catopyrops ancyr tuala Toxopeus, 1930; **TL:** Kei
Celastrina argiolus evansi Toxopeus, 1927; **TL:** Tibet
Celastrina ceyx nix Toxopeus, 1927; **TL:** E. Java
Celastrina cyma Toxopeus, 1927; **TL:** Malay Peninsula
Celastrina (Udara) dilecta paradilecta ab. *bruggemani* Toxopeus, 1928; **TL:** Sumatra
Celastrina (Udara) dilecta paradilecta f. *phoenix* Toxopeus, 1928; **TL:** Sumatra
Celastrina (Udara) dilecta ab. *dammermani* Toxopeus, 1928; **TL:** Sumatra
Celastrina (Udara) placidula intensa Toxopeus, 1928; **TL:** Malay Peninsula
Celastrina polemonia Toxopeus, 1927; **TL:** Sulawesi
Celastrina singalensis thorida Toxopeus, 1928; **TL:** Sulawesi
Celastrina snelleni Toxopeus, 1926; **TL:** Java
Cheritra freja sabanga Toxopeus, 1929; **TL:** Weh
Danis danis thinophilus Toxopeus, 1930; **TL:** Ambon
Delias frater soror Toxopeus, 1944; **TL:** Papua
Delias microsticha serratula Toxopeus, 1944; **TL:** Papua
Dicallaneura amabilis praedilecta Toxopeus, 1944; **TL:** Papua
Dicallaneura cyanea Toxopeus, 1944; **TL:** Papua
Dicallaneura decorata kausambides Toxopeus, 1944; **TL:** C. Papua
Dicallaneura dilectissima Toxopeus, 1944; **TL:** Papua
Dicallaneura hyacinthus Toxopeus, 1944; **TL:** Papua
Dicallaneura leucomelas discifera Toxopeus, 1944; **TL:** Papua
Dicallaneura pulchra ansa Toxopeus, 1944; **TL:** Yapen
Dicallaneura ribbei cyanandra Toxopeus, 1944; **TL:** Papua
Dicallaneura ribbei hageni Toxopeus, 1944; **TL:** Papua
Elymnias kuenstleri mariae Toxopeus, 1936; **TL:** Bengkulu
Gerydon gallus leucocydon Toxopeus, 1940; **TL:** Java
Gerydus biggsi extraneus Toxopeus, 1929; **TL:** Weh
Gerydus boisduvali simalurensis Toxopeus, 1928; **TL:** Simeulue
Gerydus symethus vaneckeai Toxopeus, 1930; **TL:** N.E. Sulawesi
Paranticopsis longilineatus Toxopeus, 1950 (non Joicey & Talbot, 1922); **TL:** Sulawesi
Paranticopsis marthae Toxopeus, 1950; **TL:** E. Java
Imaida sinuata Toxopeus, 1948; **TL:** Borneo
Imaus munda collenettei Toxopeus, 1948; **TL:** Brunei
Ionolyce helicon javanica Toxopeus, 1929; **TL:** Java
Lampides alecto batjana Toxopeus, 1930; **TL:** Bacan
Lampides alecto manilana Toxopeus, 1930; **TL:** Luzon
Lampides alecto horsfieldi Toxopeus, 1929; **TL:** Java

Lampides alecto simalurana Toxopeus, 1930; **TL:** Simeulue
Lampides alecto luniger Toxopeus, 1930; **TL:** Sulawesi
Lampides celeno carolina Toxopeus, 1929; **TL:** Weh
Loepantheraea rosieri Toxopeus, 1940; **TL:** Sumatra
Loxura atymnus intermedius Toxopeus, 1929; **TL:** Sumatra
Lycaenopsis cincta Toxopeus, 1926; **TL:** Timor
Lycaenopsis moorei Toxopeus, 1926; **TL:** Sri Lanka
Lycaenopsis vandeldeni Toxopeus, 1929; **TL:** Sumatra
Lymantria apnodes bisextilis Toxopeus, 1948; **TL:** Malay Peninsula
Lymantria (Lymantria) ossea Toxopeus, 1948; **TL:** W. Java
Lymantria (Spinotria) vastatrix Toxopeus, 1948; **TL:** W. Java
Megisba malaya siebersi Toxopeus, 1929; **TL:** Java
Mermessus ravindra sumptuosa Toxopeus, 1931; **TL:** Bengkulu
Nacaduba ancyra hyperpseustis Toxopeus, 1929; **TL:** Weh
Nacaduba berenice ormistoni Toxopeus, 1927; **TL:** Sri Lanka
Nacaduba beroe bimaculosa Toxopeus, 1929; **TL:** E. Java
Nacaduba beroe javana Toxopeus, 1927; **TL:** W. Java
Nacaduba beroe minima Toxopeus, 1927; **TL:** Sri Lanka
Nacaduba calauria cypria Toxopeus, 1929; **TL:** W. Java
Nacaduba calauria evansi Toxopeus, 1927; **TL:** Sri Lanka
Nacaduba glauconia overdijkinki Toxopeus, 1929; **TL:** E. Java
Nacaduba kurava ataranica Toxopeus, 1927; **TL:** India
Nacaduba kurava canaraica Toxopeus, 1927; **TL:** India
Nacaduba kurava canaraica f. *belli* Toxopeus, 1927; **TL:** India
Nacaduba kurava euplea f. *evansi* Toxopeus, 1927 (preocc in *N. calauria*?); **TL:** Myanmar
Nacaduba kurava niasica Toxopeus, 1927; **TL:** Nias
Nacaduba kurava nicobarica Toxopeus, 1927 (non Wood–Mason & de Nicéville, 1881 -
Nacaduba kurava sambalanga Tite, 1963); **TL:** Nicobar
Nacaduba kurava pacifica Toxopeus, 1927; **TL:** Solomon
Nacaduba kurava rothschildi Toxopeus, 1927; **TL:** St. Aignan (Misima), PNG
Nacaduba nabo valvidens Toxopeus, 1929; **TL:** W. Java
Nacaduba sanaya naevia Toxopeus, 1929; **TL:** W. Java
Neopithecops zalmora pertimidis Toxopeus, 1930; **TL:** Borneo
Pachliopta polydorus mamberamus Toxopeus, 1950; **TL:** Papua
Petrelaea dana varia Toxopeus, 1929; **TL:** Java
Pronymia punctata Toxopeus, 1948; **TL:** Java
Prosotas dubiosa roepkei Toxopeus, 1929; **TL:** Java
Prosotas ella Toxopeus, 1930; **TL:** C. Sulawesi
Prosotas hybrida Toxopeus, 1929; **TL:** Java
Prosotas noreia cyclops Toxopeus, 1929; **TL:** Java
Prosotas norina Toxopeus, 1929; **TL:** Java
Prosotas parrhasius rothschildi Toxopeus, 1930 (preoc. in *Nacaduba kurava rothschildi*
Toxopeus, 1927); **TL:** Seram
Prosotas pia Toxopeus, 1929; **TL:** W. Java
Psilochira lineata nycthemera Toxopeus, 1948; **TL:** W. Java
Psilochira lineata sinuata Toxopeus, 1948; **TL:** Borneo
Redoa adusta Toxopeus, 1948; **TL:** E. Borneo
Redoa arborchristi Toxopeus, 1948; **TL:** Borneo
Redoa byssina Toxopeus, 1948; **TL:** W. Sumatra
Redoa clavigera Toxopeus, 1948; **TL:** Java
Redoa corrugata Toxopeus, 1948; **TL:** Java

Redoa diatrete Toxopeus, 1948; **TL**: S. Sumatra
Redoa erasmia Toxopeus, 1948; **TL**: Borneo
Redoa flaccida Toxopeus, 1948; **TL**: S.W. Papua
Redoa flaminea Toxopeus, 1948; **TL**: Borneo
Redoa galanthina Toxopeus, 1948; **TL**: W. Sumatra
Redoa galene Toxopeus, 1948; **TL**: Borneo
Redoa isabella Toxopeus, 1948; **TL**: E. Borneo
Redoa linteola Toxopeus, 1948; **TL**: E. Borneo
Redoa palea Toxopeus, 1948; **TL**: New Guinea
Redoa prasionaura Toxopeus, 1948; **TL**: E. Borneo
Redoa phrika gedea Toxopeus, 1948; **TL**: W. Java
Redoa rhopica Toxopeus, 1948; **TL**: E. Borneo
Redoa salebroso Toxopeus, 1948; **TL**: E. Borneo
Redoa salsa Toxopeus, 1948; **TL**: E. Java
Redoa satinata Toxopeus, 1948; **TL**: E. Borneo
Redoa sparsa Toxopeus, 1948; **TL**: E. Borneo
Redoa velutina Toxopeus, 1948; **TL**: E. Java
Rhinelephas arrhina Toxopeus, 1928; **TL**: Sumatra
Rhinelephas cyanicornis denkeri Toxopeus, 1928; **TL**: E. Java
Ruralis acosmeta Toxopeus, 1935; **TL**: Java
Ruralis malayica thamar Toxopeus, 1935; **TL**: S. Sumatra
Sospita heterisa sigiana Toxopeus, 1944; **TL**: Papua
Sospita heterisa auspex Toxopeus, 1944; **TL**: Papua
Sospita postalba artaxerxes Toxopeus, 1944; **TL**: Papua
Sospita satraps cyrus Toxopeus, 1944; **TL**: Papua
Sospita tyrannus polyphemus Toxopeus, 1944; **TL**: Papua
Syntherata loepoides chrysopeplus Toxopeus, 1940 ; **TL**: Sumatra
Tajuria cippus moultoni Toxopeus, 1929; **TL**: Amuntai, Borneo
Tajuria cippus vandeldeni Toxopeus, 1929; **TL**: N.E. Sumatra
Terias beatrix Toxopeus, 1939; **TL**: W. Java
Xanthonygmia oculata Toxopeus, 1948; **TL**: Borneo
Zeuzera coffeae virens Toxopeus, 1948; **TL**: W. Java
Zizeeria kuli annetta Toxopeus, 1929; **TL**: N. Sumatra
Zizeeria kuli parasangra Toxopeus, 1929; **TL**: Weh
Zizeeria otis subsp. kuli Toxopeus, 1929; **TL**: N. Sumatra

Note: All taxa are presented in original combinations, which may no longer be current.

TS = Type species; **TL** = Type locality

Table 2. Taxa published with eponyms for *Toxopeus* (also see References)

ARACHNIDA

Family: Toxopeusiidae Oudemans, 1927

Genus: *Toxopeusia* Oudemans, 1927; **TS:** *Fedrizzia. grossipes* Canestrini, 1884; **TL:** Papua

Anoetus toxopei Oudemans, 1927; **TL:** Buru

Arkys toxopeusi (Reimoser, 1936) – (*Archemorus*); **TL:** Buru

Arrenurus toxopeusi Viets, 1923 – (*Arrhenurus (Brevicaudaturus) lohmanni* Piersig, 1898);

TL: Queensland

Mealia toxopei Oudemans, 1928 – (*Dermatophagoides pteronyssinus* Trouessart, 1897); **TL:** Buru

Haemaphysalis toxopei Warburton, 1927; **TL:** Buru

Histiostoma toxopei Oudemans, 1927; **TL:** Buru

Neofedrizzia vitzthumi (Oudemans, 1927) – (*Toxopeusia*); **TL:** Buru

Tencateia toxopei Oudemans, 1936; **TL:** Buru

Toxopeusia strandi (Oudemans, 1927) – (*Fedrizzia*); **TL:** Buru

BLATTODEA

Hanitschia toxopei (Hanitsch, 1936) – (*Mopsella*); **TL:** Buru

Panesthia toxopeusi Roth, 1979; **TL:** Papua

COLEOPTERA

Acicnemis toxopeusi Heller, 1929; **TL:** Buru

Agrius toxopeusi (Obenberger, 1932) – (*Hylaeogena*); **TL:** Buru

Alaus toxopei van Zwaluwenburg, 1963; **TL:** Papua

Anomala toxopei Zorn, 2007; **TL:** Sulawesi

Anotylus toxopei Cameron, 1952; **TL:** Papua

Anthelephila toxopei (Krekich–Strassoldo, 1929) – (*Anthlephilus*); **TL:** Buru

Apogonia toxopei Moser, 1926; **TL:** Buru

Apolecta toxopei Jordan, 1929; **TL:** Buru

Aspidomorpha toxopei Spaeth, 1926 – (*Aspidimorpha*); **TL:** Buru

Atanygnathus toxopei Cameron, 1952; **TL:** Papua

Auletanus (Neauletus) toxopeusi (Voss, 1957) – (*Stictauletoides*); **TL:** Papua

Bradymerus toxopei Kulzer, 1951; **TL:** Buru

Burudromas toxopei Beenen, 2017; **TL:** Buru

Calochromus toxopei Kleine, 1939; **TL:** Sulawesi

Celebia toxopeusi Heller, 1929; **TL:** Buru

Cercyon toxopeusi d’Orchymont, 1926; **TL:** Buru

Chalcotaenia toxopeusi (Obenberger, 1932). (*Paracupta*); **TL:** Buru

Cistelomorpha toxopei Borchmann, 1932; **TL:** Buru

Clivina toxopei Darlington, 1962; **TL:** Papua

Colpodes toxopei Andrewes, 1930; **TL:** Buru

Cordylocerellus toxopeusi (Pic, 1939) – (*Tylocerus*); **TL:** Papua

Cyphogastra toxopeusi Obenberger, 1932 – (*Cyphogastra mnischechi* Deyrolle 1864); **TL:** Buru

Dobodura toxopei Liebherr, 2017; **TL:** Papua

Eleusis toxopei Cameron, 1952; **TL:** Papua

Endelus toxopei Obenberger, 1932; **TL:** Buru

Epierus toxopei Desbordes, 1926; **TL:** Buru

Formicomus toxopei Krekich–Strassoldo, 1929; **TL:** Buru

Glycyphana toxopei Moser, 1926; **TL:** Buru

Gyrophana toxopei Cameron, 1952; **TL:** Papua

Helluopapua toxopei Darlington, 1968; **TL:** Papua

Hesperus toxopei Cameron, 1952; TL: Papua
Heteromastix toxopeusi Wittmer, 1955; TL: Papua
Labienus toxopeusi van Doesburg, 1956; TL: Papua
Leiolesticus toxopei (Darlington, 1962) – (*Lesticus*); TL: Papua
Macrogyrus (Cyclomimus) toxopeusi Ochs, 1955 – (*Gyrinus*); TL: Papua
Mecyclothorax toxopei Darlington, 1962; TL: Papua
Notoceresium toxopeusi Gressitt, 1959; TL: Papua
Omoglymmius toxopei Bell & Bell, 1978; TL: Papua
Onthophagus toxopei Krikken & Huijbregts, 2012; TL: Papua
Osorius toxopei Cameron, 1936; TL: Papua
Oxytelus (Anotylus) toxopei Cameron, 1952; TL: Papua
Paederus toxopei (Wendeler, 1926) – (*Oedichirus*); TL: Buru
Papuamisolampus toxopeusi Kaszab, 1986; TL: Papua
Papulema toxopeana Gressitt, 1965; TL: Papua
Paracoptops toxopei Aurivillius, 1926; TL: Buru
Paracupta toxopeusi Obenberger, 1932; TL: Buru
Penthoscapha toxopei (Gressitt & Sedlacek, 1967) – (*Gymnopholus*); TL: Papua
Philonthus toxopeanus Cameron, 1952; TL: Papua
Philonthus toxopei Cameron, 1937; TL: Papua
Piezonotus toxopeusi Voss, 1940; TL: Java
Polyrhaxis toxopeusi (van Nidek, 1959) (*Cincidella*); TL: Papua
Priochirus (Plastus) toxopei Cameron, 1952; TL: Papua
Procautires toxopei Kleine, 1925; TL: Buru
Scaphisoma toxopeusi Löbl, 1976; TL: Buru
Spiloscapa toxopeusi Schawaller, 2012; TL: Papua
Stenhydrus toxopei (Zimmermann, 1926) – (*Homoeodytes*); TL: Buru
Stenus toxopei Cameron, 1952; TL: Papua
Tachinomorphus toxopei Bernhauer, 1925; TL: Buru
Tmesisternus toxopei Gressitt, 1984; TL: Papua
Trigonoptera toxopeusi Withaar, 2019; TL: Papua
Xanthonomus toxopeanus (Bernhauer, 1926) – (*Phloeonomus*); TL: Buru

DIPTERA

Aedes (Finlaya) toxopeusi Bonne–Wepster, 1948 – (*Aedes (Patmarksia)*); TL: Papua
Bactrocera (Semicalanthra) toxopeusi (Hering, 1953) – (*Daculus*); TL: Papua
Calliphora toxopeusi Theowald, 1957; TL: Papua
Ceratocheilus toxopeana Alexander, 1960; TL: Papua
Dapanoptera toxopaeana Alexander, 1959; TL: Papua
Gynoplistia toxopei Alexander, 1960; TL: Papua
Hexatoma (Eriocera) toxopei Edwards, 1937; TL: Buru
Homoneura toxopei Malloch, 1929; TL: Buru
Medetera toxopeusi Parent, 1932; TL: Buru
Metalibnotes toxopei (Edwards, 1926) – (*Limonia. Nephrotoma*); TL: Buru
Molophilus toxopeanus Alexander, 1961; TL: Papua
Myospila toxopei (Malloch, 1929) – (*Xenosina*); TL: Buru
Odontomyia toxopeusi (Lindner, 1957) – (*Eulalia*); TL: Papua
Papuatipula toxopeina Alexander, 1971; TL: Papua
Paralimnophila (Papuaphila) toxopeana Alexander, 1960; TL: Papua
Paramicrodon toxopei de Meijere, 1929; TL: Buru
Polleniopsis toxopei (Senior–White, 1926) – (*Paratricyclea*); TL: Buru
Radinoderus toxopei Alexander, 1959; TL: Papua
Toxorhina (Ceratocheilus) toxopeana Alexander, 1961; TL: Papua

HEMIPTERA

Genus: *Toxopeusella* Schmidt, 1926; **TS:** *Baeturia moluccana* Kirkaldy, 1909; **TL:** Ambon

Genus: *Toxopeusiana* Miller, 1954; **TS:** *Paraluteva nuda* Miller, 1950; **TL:** India

Brachylybas toxopei Brailovsky & Martinez, 1994; **TL:** Papua

Cosmopsaltria toxopeusi Duffels, 1983; **TL:** Papua

Costomedes toxopeusi van Doesburg, 2004; **TL:** Papua

Helonotus toxopeusi Miller 1958; **TL:** Papua

Leptataspis toxopei Lallemand & Synav, 1955; **TL:** Papua

Lobogonius toxopeusi Brailovsky, 2000; **TL:** Papua

Lollius toxopei Schmidt, 1926; **TL:** Buru

Mirabilopsaltria toxopeusi (Blöte, 1960) – (*Baeturia*); **TL:** Papua

Monophlebulus toxopei Reyne, 1965; **TL:** Papua

Nerthra toxopeusi Todd, 1959; **TL:** Papua

Paloptus toxopeusi Miller, 1958; **TL:** Papua

Papuapsaltria toxopei De Boer, 1995; **TL:** Papua

Samel toxopeusi (Lallemand, 1959) – (*Bloeteanella*); **TL:** Papua

Sphedanolestes toxopeusi Miller, 1958; **TL:** Papua

Tingis toxopeusi Drake, 1960; **TL:** Papua

Toxopeusella montana Schmidt, 1926; **TL:** Buru

Toxopeusiana nuda (Miller, 1950) (*Paraluteva ravispinosa*); **TL:** India

HOMOPTERA

Aneurys toxopeusi Blöte, 1965; **TL:** Papua

Aufidus toxopeusi Blöte, 1957; **TL:** Papua

Dicercopyga toxopei Schmidt, 1926; **TL:** Buru

HYMENOPTERA

Bohayella toxopeusi Dangerfield & Austin, 1995; **TL:** Papua

Cercerys toxopeusi Krombein, 1969; **TL:** Papua

Euagathis toxopei van Achterberg, 2004; **TL:** Papua

Homalictus toxopei (Alfken, 1926) – (*Halictus*); **TL:** Buru

Halictus toxopeusi Blüthgen 1926 – (unjustified emendation of *Homalictus toxopei*)

Hyboteles toxopeusi van Achterberg, 1984; **TL:** Papua

Lasioglossum toxopei (Alfken, 1926) – (*Homalictus*); **TL:** Buru

Podagritys toxopeusi Tsuneki, 1983; **TL:** Papua

Psen toxopeusi van Lith, 1959; **TL:** Luzon

Xanthopimpla toxopei Townes & Chiu, 1970; **TL:** Java

LEPIDOPTERA

Genus: *Toxopeia* Diakonoff, 1955; **TS:** *Toxopeia demodes* Diakonoff, 1955; **TL:** Papua

Genus: *Toxoproctis* Holloway, 1999; **TS:** *Euproctis munda* Walker, 1862; **TL:** Borneo

Aenetus toxopeusi (Viette, 1956) – (*Achladaeus*); **TL:** Papua

Agaphthora toxopeusi (Obraztsov, 1957) – (*Ceryx*); **TL:** Sumatra

Allochриста toxopeii Roepke, 1946 ¹); **TL:** Sulawesi

Celaenorrhinus toxopei de Jong, 1981; **TL:** Java

Delias toxopei toxopei Roepke 1955; **TL:** Papua

Deudorix toxopeusi Tennent, Müller & Rawlins, 2010; **TL:** Papua

Elhamma toxopeusi (Viette, 1952) – (*Zauxieus*); **TL:** Papua

Euproctis toxopeusi Collenette, 1955; **TL:** Papua

Euxanthopyge toxopeii Roepke, 1943 – (*Eterusia*) ¹); **TL:** Sulawesi

Faunis menado toxopeusi Bakker, 1942; **TL:** Sulawesi

Graphium sarpedon toxopei Page & Treadaway 2013; **TL:** Lombok

Halpe toxopea Evans, 1932; **TL:** Java

Hypochrysops meeki toxopeusi Tennent & Müller, 2025; **TL**: Papua
Lymantria (Syntria) toxopeusi Collenette, 1955; **TL**: Papua
Lyssa toxopeusi (van Regteren Altena, 1953) – (*Nyctalemon*); **TL**: Papua
Manoba toxopeusi László, Ronkay & Ronkay, 2022; **TL**: Papua
Mimene toxopei de Jong, 2008; **TL**: Papua
Nacaduba calauria toxopeusi Corbet, 1938 – (unjustified emendation of *Nacaduba calauria evansi*)
Nemophora toxopeusi Kozlov, 2016; **TL**: Papua
Nyctemera toxopei toxopei van Eecke, 1926; **TL**: Buru
Ochyrotica toxopeusi Gielis, 1988; **TL**: Sulawesi
Oxycanus toxopeusi (Viette, 1956) – (*Paraoxycanus*); **TL**: Papua
Parantica toxopei (Niewenhuis, 1969) – (*Danaus*); **TL**: Sulawesi
Spilarctia toxopei (Roepke, 1954) – (*Spilosoma*); **TL**: Java
Toxopeia demodes Diakonoff, 1955; **TL**: Papua
Udara toxopeusi toxopeusi (Corbet, 1937) – (*Celastrina*); **TL**: Malay Peninsula
Zacorisca toxopei Diakonoff, 1948; **TL**: Papua

NEUROPTERA

Heteroconis toxopei Tjeder, 1972; **TL**: Papua
Spilosmylus toxopeusi New, 1998; **TL**: Papua

ODONATA

Hemicordulia toxopei Lieftinck, 1926; **TL**: Buru

ORTHOPTERA

Genus: *Toxopeusia* Willemse, 1955, preoc. in Oudemans 1927 (→ *Kapaoria* Bolívar, 1898);
TS: *Toxopeusia flavomaculata* Willemse, 1955; **TL**: Papua
Genus: *Toxopeusiocris* Willemse, 1956 (published in errata) (→ *Kapaoria* Bolívar, 1898);
TS: *Toxopeusia flavomaculata* Willemse, 1955³); **TL**: Papua
Hyalogryllacris toxopei (Karny, 1925) – (*Gryllacris*); **TL**: Buru
Mossula toxopei Karny, 1924; **TL**: Buru
Ophiotettix toxopei Tumbrinck & Skejo, 2017; **TL**: Papua

SIPHONAPTERA

Astivalius toxopeusi Hasttiter, 2020; **TL**: Papua
Sigmactenus toxopeusi Smit, 1953; **TL**: Papua

GASTROPODA

Chloritis toxopei van Benthem–Jutting, 1927; **TL**: Buru
Glyptophysa toxopei (van Benthem–Jutting, 1963) – (*Physastra*); **TL**: Papua

REPTILIA

Draco toxopei de Jong, 1926 – (*Draco lineatus* Daudin, 1802); **TL**: Buru

AVES

Acrocephalus stentoreus toxopei Hartert 1924 – (*A. stentoreus sumbae* Hartert 1924); **TL**: Buru
Neositta toxopeusi (Rand, 1940) – (*Daphoenositta papuensis toxopeusi*); **TL**: Papua
Hypocharmosyna toxopei Siebers, 1930 – (*Charmosyna*, *Charmosynopsis*); **TL**: Buru

MAMMALIA

Murina florium toxopei Thomas, 1923; **TL**: Buru
Rhinolophus arcuatus toxopeusi Hinton, 1925; **TL**: Buru

PLANTAE

ERICALES

Rhododendron toxopei J. J. Smith, 1932; **TL**: Buru

ORCHIDALES

Dendrobium toxopei J. J. Smith, 1928; **TL**:Buru

Liparis toxopei J. J. Smith, 1928; **TL**: Buru

Malaxis toxopei (J. J. Smith, 1928) S. Thomas, Schuit & de Vogel – (*Crepidium*); **TL**: Buru

Pinalia toxopei (J. J. Smith, 1928) Schuit., Y.P. Ng & H.A.Pedersen – (*Eria*); **TL**: Buru

Notes:

1. Roepke utilized specific epithet *toxopei* in two species, *Allochrista* and *Euxanthopyge* which might be use as *toxopeii*, but not in *Delias toxopei* and *Spilosoma toxopei*.
2. Names in parentheses refers to the original designation as well as few other notes
3. The generic name *Toxopeusiocris* as replacement name for *Toxopeusia* Willemse (1955), according to IUZS rule Article no 13.1 is invalid because it was not properly described and published, only in an erratum about one year later and in a different journal (Willemse, 1956).
4. **TS** = Type species; **TL** = Type locality.