

## The Host Trees of the Endemic Cerambycidae in Hawaii

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(Presented at the meeting of May 7, 1931)

At the present time there are known 82 species and 4 varieties of endemic Cerambycidae in the Hawaiian Islands. They are distributed in the following genera: *Plagithmysus*, 49 species and 2 varieties; *Nesithmysus*, 4 species; *Aeschrithmysus*, 2 species; *Callithmysus*, 2 species and 1 variety; *Neoclytarlus*, 22 species and 1 variety; *Paracytarlus*, 3 species. The descriptions of these are somewhat scattered, and many of them have no definite reference to their host trees. There are scattered notes recording habits of some of them later than the time of description. It seems desirable for convenient reference for those making further studies of this group of beetles, to have a list of all species together with their hosts so far as known. The following list also cites the description, synonymy, collector and the island on which the species occurs. So far, no species is known to occur on more than one island. The list is arranged in chronological order according to dates of descriptions. A few host and locality records have been added while this paper was in press.

### *Plagithmysus pulverulentus* (Motsch.).

*Stenopterus pulverulentus* Motschoulsky, Bull. Mosc., XVIII, I, p. 85, Pl. I, f. 12, 1845.

*Plagithmysus pulverulentus* Motsch., Bull. Mosc., XVIII, II, p. 370, Pl. VII, f. 7, 1845.

*Plagithmysus pulverulentus*, Sharp, Ent. Mo. Mag., (2), VII, p. 242, 1896.  
*Clytarlus robustus* Sharp, Trans. Ent. Soc., London, p. 206, 1878.

*Plagithmysus pulverulentus*, Sharp, Fauna Hawaiensis, II, p. 107, 1900.

Generally distributed on OAHU. Collected from *Acacia koa* by Blackburn and Perkins. Bred from the same tree by Swezey, Bridwell and Hadden. Oahu (Koebele); Wailupe (Bridwell); Tantalus (Giffard).

### *Plagithmysus cristatus* (Sharp).

*Clytus attenuatus* Boisd., Voy. Astrol., Ins. II, p. 485, 1835.

*Clytarlus cristatus* Sharp, Trans. Ent. Soc., London, p. 207, 1878.

*Plagithmysus cristatus* Sharp, Ent. Mo. Mag., (2) VII, p. 274, 1896.

*Plagithmysus cristatus* Sharp, Fauna Hawaiensis, II, p. 113, 1900.  
*Callithmysus cristatus* Sharp, Fauna Hawaiensis, III, p. 650, 1910.  
*Plagithmysus cristatus*, Perkins, Proc. Haw. Ent. Soc., VI, p. 479, 1927.

Generally distributed on OAHU. Collected on *Acacia koa* by Blackburn and Perkins. Bred from the same tree by Swezey and Hadden. Oahu (Koebele); Tantalus (Giffard); Palolo, Punaluu (Swezey).

***Plagithmysus finschi* (Harold).**

*Clytarlus finschi* Harold, Mitt. München Ent. Ver., IV, p. 166, 1880.  
*Plagithmysus finschi*, Sharp, Ent. Mo. Mag., (2), VII, p. 242, 1896.  
*Plagithmysus finschi*, Sharp, Fauna Hawaiensis, II, p. 106, 1900.

Olinda and Haleakala, MAUI. Collected on *Acacia koa* by Blackburn and Perkins. Bred from the same tree by Swezey. Maui (Koebele); Olinda (Giffard and Fullaway).

***Plagithmysus pulvillatus* (Karsch).**

*Clytarlus pulvillatus* Karsch, Berlin Ent. Zeit., XXV, p. 9, Pl. I, f. 14, 1881.

*Plagithmysus pulvillatus*, Sharp, Fauna Hawaiensis, II, p. 111, 1900.

"Grove Ranche", MAUI (Karsch). Collected by Perkins on Haleakala, 5,000 ft. Maui, on *Metrosideros polymorpha*.

***Plagithmysus blackburni* (Sharp).**

*Clytarlus blackburni* Sharp, Trans. Dublin Soc., (2), III, p. 195, Pl. V, fig. 47, 1885.

*Plagithmysus blackburni* Sharp, Ent. Mo. Mag., (2), VII, p. 271, 1896.

*Plagithmysus blackburni* Sharp, Fauna Hawaiensis, II, p. 111, 1900.

Kona and Puuwaawaa, HAWAII. Collected on *Sophora chrysophylla* by Perkins and Giffard; by Blackburn on *Acacia falcata* (possibly a misidentification of tree); by Meinecke on *Sophora* on Mauna Kea, and at Humuula on dead Gouldia; by Williams and Swezey on *Sophora* at 7,000 feet elevation, Nauhi Gulch, Hawaii, Oct., 1931.

***Plagithmysus vitticollis* Sharp.**

Sharp, Ent. Mo. Mag., (2), VII, p. 240, 1896.

Sharp, Fauna Hawaiensis, II, p. 105, Pl. VI, fig. 5, 1900.

Kilauea, HAWAII (Perkins, Giffard, Swezey). Collected on akala (*Rubus* sp.) by Perkins; on *Perrottetia sandwicensis* by Giffard. Bred from *Rubus hawaiensis*, Upper Hamakua Ditch trail, Kohala Mts. (Swezey).

**Plagithmysus vitticollis** var. *longulus* Sharp.

Sharp, Ent. Mo. Mag., (2), VII, p. 240, 1896.  
 Sharp, Fauna Hawaiensis, II, p. 105, 1900.

Puna, HAWAII. Found breeding in *Bobea elatior* by Perkins. Collected on the same tree at Kilauea by Giffard. Collected at Puna by Newell; Hawaii (Koebele).

**Plagithmysus newelli** Sharp.

Sharp, Ent. Mo. Mag., (2), VII, p. 240, 1896.  
 Sharp, Fauna Hawaiensis, II, p. 105, Pl. VI, fig. 7, 1900.

Wailuku, MAUI. Collected by Blackburn. Host tree unknown. Haleakala, 4,000 feet (Giffard).

**Plagithmysus concolor** Sharp.

Sharp, Ent. Mo. Mag., (2), VII, p. 241, 1896.  
 Sharp, Fauna Hawaiensis, II, p. 106, Pl. VI, fig. 8, 1900.

KAUAI. Collected on ohia ha (*Syzygium sandwicense*) by Perkins and oviposition was observed on this tree; collected by Munro at Kaholuamano; Waimea, 3,200 to 4,000 feet, Kaholuamano (Giffard); Kaholuamano, Waialeale trail (Kusche); collected on ohia lehua by Osborn at Kokee. Bred from lehua at Halemanu by Swezey, July, 1932.

**Plagithmysus solitarius** Sharp.

Sharp, Ent. Mo. Mag., (2), VII, p. 241, 1896.  
 Sharp, Fauna Hawaiensis, II, p. 106, 1900; III, p. 647, 1910.

Mt. Tantalus, Nuuanu, Pupukea, Haleauau, OAHU. Bred from *Syzygium sandwicense* by Perkins and Swezey; and from *Elaeocarpus bifidus* by Swezey and Hadden; on Tantalus, once bred from *Metrosideros polymorpha* by Perkins; Oahu (Koebele); Lanihuli (Bryan). Bred from lehua in Mohiakea Valley, Waianae Mountains, by Swezey, Sept., 1932.

**Plagithmysus cuneatus** Sharp.

Sharp Ent. Mo. Mag., (2), VII, p. 241, 1896.  
 Sharp, Fauna Hawaiensis, II, p. 106, Pl. VI, fig. 9, 1900.

Kaala, OAHU. Collected by Perkins on an unknown tree; collected by Forbes on *Sapindus oahuensis* at Wailupe. Bred from the same tree at Niu by Swezey and Williams, March, 1932.

**Plagithmysus bishopi** Sharp.

Sharp, Ent. Mo. Mag., (2), VII, p. 242, 1896.

Sharp, Fauna Hawaiensis, II, p. 108, Pl. VI, fig. 12, 1900; F. H., Int., p. lxviii, 1913.

Kilauea, HAWAII. Bred by Perkins from *Pelea cinerea* and *Xanthoxylum dipetalum* var. *geminicarpum*; collected from the same trees by Giffard; also collected by Giffard on *Pelea zahlbruckneri*, *Straussia* sp. and *Acacia koa*.

**Plagithmysus bishopi** var. *gracilis* Sharp.

Sharp, Ent. Mo. Mag., (2), VII, p. 243, 1896.

Sharp, Fauna Hawaiensis, II, p. 108, 1900.

Kilauea, HAWAII. Collected by Perkins from a tree resembling pua (*Osmanthus sandwicensis*).

**Plagithmysus vicinus** Sharp.

Sharp, Ent. Mo. Mag., (2), VII, p. 243, 1896.

Sharp, Fauna Hawaiensis, II, p. 108, 1900; F. H., Int., p. lxviii, 1913.

Western side of Mauna Loa, HAWAII. Collected from a different species of Pelea than that from which *bishopi* was bred.

**Plagithmysus bilineatus** Sharp.

Sharp, Ent. Mo. Mag., (2), VII, p. 243, 1896.

Sharp, Fauna Hawaiensis, II, p. 108, Pl. VI, fig. 14, 1900.

Kilauea, Puna and Kona, HAWAII. Collected on ohia lehua (*Metrosideros polymorpha*) by Perkins; collected on the same tree at Kilauea by Giffard.

**Plagithmysus lanaiensis** Sharp.

Sharp, Ent. Mo. Mag., (2), VII, p. 244, 1896.

Sharp, Fauna Hawaiensis, II, p. 108, 1900.

Halepaakai, LANAI. Collected by Perkins and said to be probably attached to ohia lehua.

**Plagithmysus perkinsi** Sharp.

Sharp, Ent. Mo. Mag., (2), VII, p. 244, 1896.

Sharp, Fauna Hawaiensis, II, p. 109, Pl. VI, fig. 15, 1900.

Mauna Loa and Kilauea, HAWAII. Collected on *Myoporum sandwicense* by Perkins and Giffard; bred from the same tree by Giffard and Swezey. Bred from the same tree at Nauhi Gulch, 6,000 ft., by Swezey, Sept., 1931.

**Plagithmysus varians** Sharp.

Sharp, Ent. Mo. Mag., (2), VII, p. 245, 1896.

Sharp, Fauna Hawaiensis, II, p. 109, 1900.

Mauna Loa and Kilauea, HAWAII. Collected very abundantly from *Acacia koa* by Perkins and Giffard; bred from the same tree by Swezey at Nauhi, 5,250 feet elevation, Oct., 1931.

**Plagithmysus darwiniensis Sharp.**

Sharp, Ent. Mo. Mag., (2), VII, p. 271, 1896.

Sharp, Fauna Hawaiianensis, II, p. 109, Pl. VI, fig. 16, 1900; F. H., Int., p. lxvii, 1913.

Kilauea, HAWAII. Collected on mamani (*Sophora chrysophylla*) by Perkins and Giffard; ten specimens collected on fallen *Sapindus saponaria* tree, September 28, 1913, by Swezey. Not known to breed in this latter tree.

**Plagithmysus sulphurescens Sharp.**

Sharp, Ent. Mo. Mag., (2), VII, p. 271, 1896.

Sharp, Fauna Hawaiianensis, II, p. 111, Pl. VI, fig. 17,\* 1900.

Kilauea, HAWAII. Collected by Perkins from an unknown tree. Later recorded as breeding in Urera.

**Plagithmysus speculifer Sharp.**

Sharp, Ent. Mo. Mag., (2), VII, p. 272, 1896.

Sharp, Fauna Hawaiianensis, II, p. 111, 1900.

Iao Valley, MAUI. Collected by Perkins. Host tree not known.

**Plagithmysus aestivus Sharp.**

Sharp, Ent. Mo. Mag., (2), VII, p. 272, 1896.

Sharp, Fauna Hawaiianensis, II, p. 111, 1900.

MOLOKAI. Collected by Perkins on ohia lehua (*Metrosideros polymorpha*); on the same tree by Giffard at Kalamaula, Molokai.

**Plagithmysus funebris Sharp.**

Sharp, Ent. Mo. Mag., (2), VII, p. 273, 1896.

Sharp, Fauna Hawaiianensis, II, p. 106, Pl. VI, fig. 10, 1900.

Haleakala, MAUI. Collected by Perkins on *Sophora chrysophylla*; bred from the same tree in 1927 by Swezey; Maui (Koe-bele); south slope of Haleakala (Forbes).

**Plagithmysus aequalis Sharp.**

Sharp, Ent. Mo. Mag., (2), VII, p. 273, 1896.

Sharp, Fauna Hawaiianensis, II, p. 112, 1900.

Makaweli, Waimea, Kaholuamano, KAUAI. Collected by Perkins on *Acacia koa*; Kaholuamano (Giffard); Kaholuamano, Waialeale trail, Waialae Falls (Kusche).

\* This figure was later designated as *P. giffardi* (Proc. Haw. Ent. Soc., IV, p. 495, 1921).

**Plagithmysus arachnipes** Sharp.

Sharp, Ent. Mo. Mag., (2), VII, p. 274, 1896.

Sharp, Fauna Hawaiensis, II, p. 112, Pl. VI, fig. 20, 1900.

KAUAI. Collected on *Acacia koa* by Perkins; Kauai, 4,000 feet (Kusche). Bred from koa at Halemanu by Swezey, July, 1932.

**Plagithmysus albertisi** Sharp.

Sharp, Ent. Mo. Mag., (2), VIII, p. 12, 1897.

Sharp, Fauna Hawaiensis, II, p. 110, Pl. VI, fig. 18, 1900.

West Honolulu, OAHU. Collected by Signor d'Albertis, 1874. Host tree not known.

**Plagithmysus permundus** Sharp.

Sharp, Fauna Hawaiensis, II, p. 105, 1900.

KAUAI, 2,000 ft. Collected by Perkins on ahakea (*Bobea elatior*).

**Plagithmysus diana** Sharp.

Sharp, Fauna Hawaiensis, II, p. 107, Pl. VI, fig. 11, 1900.

KAUAI, 4,000 ft. Collected by Perkins on *Pelea* sp.

**Plagithmysus collaris** Sharp.

Sharp, Fauna Hawaiensis, II, p. 107, Pl. VI, fig. 13, 1900.

Haleakala, MAUI. Bred by Perkins from *Pelea* sp.

**Plagithmysus lamarckianus** Sharp.

Sharp, Fauna Hawaiensis, II, p. 110, 1900.

Kilauea, HAWAII. Attached to *Pipturus albidus* and *Urera sandwicensis* (Perkins); collected on Pipturus by Giffard; bred from Pipturus at Paauilo, Hawaii, by Williams; bred from Pipturus at Upper Hamakua Ditch trail, Kohala Mts., Hawaii, by Swezey.

**Plagithmysus munroi** Sharp.

Sharp, Fauna Hawaiensis, II, p. 112, Pl. VI, fig. 19, 1900.

Waimea, 2,000 ft., KAUAI (Munro). Collected on ohia lehua by Osborn at Kokee, Kauai; Kaholuamano, Waialeale trail, Waialae Falls (Kusche). Collected in pupal cell in *Sideroxylon sandwicense* at Kumuwela by Swezey, June, 1932.

**Plagithmysus giffardi** Perkins.

Perkins, Proc. Haw. Ent. Soc., I, p. 96, 1907.

Kilauea, HAWAII. Collected on *Suttonia lessertiana* by Perkins and Giffard; bred from *Smilax sandwicensis* by Swezey in 1929.

**Plagithmysus fractus** Perkins.

Perkins, Fauna Hawaiensis, III, p. 646, 1910.

MOLOKAI. Fragments collected by Perkins. Host tree not known.

**Plagithmysus elegans** Sharp.

Sharp, Fauna Hawaiensis, III, p. 648, 1910.

North Kona, HAWAII (Perkins). Host tree not known

**Plagithmysus simplicicollis** Sharp.

Sharp, Fauna Hawaiensis, III, p. 648, 1910.

North Kona, HAWAII (Perkins). Host tree not known.

**Plagithmysus kuhnsi** Perkins.

Perkins, Proc. Haw. Ent. Soc., III, p. 248, 1916.

Waianae Mts., OAHU (Kuhns). Bred from *Pipturus albidus*, Haleauau Valley, Waianae Mts., Oahu by Swezey, 1927, 1928 and 1932.

**Plagithmysus ignotus** Perkins.

Perkins, Proc. Haw. Ent. Soc., III, p. 249, 1916.

KAUAI, 3,000 ft. (Munro). Kaholuamano, Kauai (Giffard); Waialae Falls (Kusche). Host tree not known.

**Plagithmysus swezeyi** Perkins.

Perkins, Proc. Haw. Ent. Soc., IV, p. 344, 1920.

Niulii, HAWAII (Swezey). Host tree not known.

**Plagithmysus platydesmae** Perkins.

Perkins, Proc. Haw. Ent. Soc., IV, p. 345, 1920.

Glenwood, HAWAII. Bred by Swezey from *Platydesma campanulata*.

**Plagithmysus frater** Perkins.

Perkins, Proc. Haw. Ent. Soc., IV, p. 500, 1921.

North Kona, HAWAII, 3,000 ft. Collected on *Pelea* sp. by Perkins.

**Plagithmysus decorus** Perkins.

Perkins, Proc. Haw. Ent. Soc., IV, p. 500, 1921.

Kilauea, HAWAII (Giffard). Host tree not known.

***Plagithmysus nihoae* Perkins.**

Perkins, Tanager Expedition, No. 3, Bull. 31, B. P. Bishop Museum, p. 53, 1926.

NIHOA. Collected on Euphorbia by Bryan.

***Plagithmysus forbesii* Perkins.**

Perkins, Proc. Haw. Ent. Soc., VI, p. 471, 1927.

Alakai Swamp, KAUAI (Forbes). Host tree not known.

***Plagithmysus paludis* Perkins.**

Perkins, Proc. Haw. Ent. Soc., VI, p. 472, 1927.

Alakai Swamp, KAUAI (Forbes). Host tree not known.

***Plagithmysus kohalaee* Perkins.**

Perkins, Proc. Haw. Ent. Soc. VI, p. 473, 1927.

Upper Hamakua Ditch trail, Kohala Mts., HAWAII (Swezey). Host tree not known.

***Plagithmysus longicollis* Perkins.**

Perkins, Proc. Haw. Ent. Soc., VI, p. 474, 1927.

Halehaku, MAUI (Bryan). Host tree not known.

***Plagithmysus sharpianus* Perkins.**

Perkins, Proc. Haw. Ent. Soc., VI, p. 475, 1927.

Kumuwela, KAUAI (Swezey). Bred from *Pipturus albidus*.

***Plagithmysus molokaiensis* Perkins.**

Perkins, Proc. Haw. Ent. Soc., VI, p. 475, 1927.

Kamiloloa, 3,200 ft., MOLOKAI (Swezey). Bred from *Pipturus albidus*.

***Plagithmysus muiri* Perkins.**

Perkins, Proc. Haw. Ent. Soc., VI, p. 476, 1927.

Haleauau Valley, Waianae Mts., OAHU (Swezey and Williams). Bred from *Sideroxylon sandwicense*.

***Plagithmysus rubi* Perkins.**

Perkins, Proc. Haw. Ent. Soc., VII, p. 415, 1931.

Olinda, MAUI. Bred from *Rubus hawaiiensis* by Swezey.

***Plagithmysus simillimus* Perkins.**

Perkins, Proc. Haw. Ent. Soc., VII, p. 415, 1931.

Kula Pipe Line trail, Olinda, MAUI. Bred from *Pipturus albidus* by Swezey.

From the above, it will be seen that there are 14 species of *Plagithmysus* whose host trees have not yet been determined. Twelve of these are uniques, as follows: *newelli*, *lanaiensis*, *speculifer*, *fractus*, *elegans*, *ignotus*, *swezeyi*, *decorus*, *forbesii*, *paludis*, *kohalae* and *longicollis*; besides all of these, the host tree is unknown for *albertisi* and *simplicicollis*. All of which shows that there is yet much to learn about the *Plagithmysus* group.

**Nesithmysus bridwelli** Perkins.

Perkins, Proc. Haw. Ent. Soc., VI, p. 343, 1920.

Mt. Kaala, 3,000 ft., OAHU (Swezey and Bridwell). The two first specimens were collected on ohia lehua and Broussaisia. Bred from *Pelea sandwicensis*, *Pelea clusiaeefolia* and possibly other species of *Pelea*, on Kaala, 1930; Kahana at summit, 1931; and Waipio Ridge, 1928, by Swezey.

**Nesithmysus forbesii** Perkins.

Perkins, Proc. Haw. Ent. Soc., IV, p. 503, 1921.

Haipuaena, 3,100 ft., MAUI. Collected on *Pelea* sp. by Forbes. Bred from *Pelea* sp. on the Kula Pipe Line trail, Olinda, Maui, by Swezey, 1927.

**Nesithmysus haasii** Perkins.

Perkins, Proc. Haw. Ent. Soc., IV, p. 504, 1927.

Wahiawa, 2,000 ft., OAHU (Haas). Bred from *Pelea* sp. at Kahana summit by Swezey, 1931.

**Nesithmysus swezeyi** Perkins.

Perkins, Proc. Haw. Ent. Soc., VI, p. 485, 1927.

Kula Pipe Line trail, Olinda, MAUI. Bred from *Pelea* sp. by Swezey, 1927.

All of these species of *Nesithmysus* are detrimental to their host trees. The larvae live in the living tree, either boring down the terminal twigs or branches, or else boring in the heart of living tree trunks and branches.

**Aeschrithmysus terryi** Perkins.

Perkins, Proc. Haw. Ent. Soc., VII, p. 261, 1929.

Haleakala Crater, MAUI (Degener). Adults and larvae found in stems of silversword (*Argyroxiphium sandwicense macrocephalum*).

**Aeschrithmysus swezeyi** Perkins.

Perkins, Proc. Haw. Ent. Soc., VII, p. 262, 1929.

Summit of Haleakala, MAUI (Swezey and Whitten). Collected from *Raillardia ciliolata*; larvae also found boring in the stems.

**Callithmysus microgaster** (Sharp).

*Clytarlus microgaster* Sharp, Trans. Ent. Soc., London, p. 103, 1879.

*Callithmysus microgaster* Sharp, Fauna Hawaiensis, II, p. 113, 1900; III, p. 649, 1910.

Mts. near Honolulu, OAHU (Blackburn); Oahu (Koebele); N. W. Koolau Range and Tantalus (Perkins); Pupukea (Swezey); Waikane (Swezey and Hadden). Collected on *Bobea elatior* and the larvae found in the same tree by Perkins; bred from *Bobea elatior* by Swezey and Hadden, 1930.

**Callithmysus microgaster** var. (?) *hirtipes* Sharp.

Sharp, Fauna Hawaiensis, II, p. 113, 1900.

Kaumuahona, OAHU. Collected by Perkins on *Bobea* sp.\*; bred from *Perrottetia sandwicensis* in the same locality by Swezey, 1919.

**Callithmysus koebelei** Perkins.

Perkins, Proc. Haw. Ent. Soc., I, p. 210, fig., 1908.

Tantalus, OAHU. Bred from *Pipturus albidus* by Koebele, Perkins, Swezey and Bridwell; bred from the same tree, Kaimapau valley by Swezey, 1928.

**Neoclytarlus modestus** (Sharp).

*Clytarlus modestus* Sharp, Trans. Ent. Soc., London, p. 104, 1879.

*Clytarlus modestus* Sharp, Fauna Hawaiensis, II, p. 101, 1900.

*Neoclytarlus modestus*, Timberlake, Proc. Haw. Ent. Soc., V, p. 17, 1922.

Haleakala, 4,000-5,000 ft., MAUI (Blackburn, Perkins, Giffard, Fullaway, Swezey). Host tree: *Acacia koa*.

**Neoclytarlus pennatus** (Sharp).

*Clytarlus pennatus* Sharp, Trans. Ent. Soc., London, p. 532, 1881.

*Clytarlus pennatus* Sharp, Fauna Hawaiensis, II, p. 102, Pl. VI, figs. 2, 3, 1900.

*Neoclytarlus pennatus*, Swezey, Proc. Haw. Ent. Soc., VI, p. 198, 1925.

\* Later, Dr. Perkins has stated that this was not a positive identification of the tree from which a single beetle was taken. (Proc. Haw. Ent. Soc., IV, p. 502, 1921).

Haleakala, 5,000 ft., MAUI (Blackburn, Perkins, Giffard, Fullaway, Swezey). Host tree: *Acacia koa*.

**Neoclytarlus fragilis (Sharp).**

*Clytarlus fragilis* Sharp, Trans. Ent. Soc., London, p. 534, 1881.

*Clytarlus fragilis* Sharp, Fauna Hawaiensis, II, p. 99, 1900.

*Neoclytarlus fragilis*, Bridwell, Proc. Haw. Ent. Soc., IV, p. 323, 1920.

Palolo Valley, OAHU (Blackburn, Perkins); Waianae Mts., Tantalus (Perkins); Fort Shafter Ridge (Swezey). Host tree: *Acacia koa*.

**Neoclytarlus filipes (Sharp).**

*Clytarlus filipes* Sharp, Trans. Dublin Soc., (2), III, p. 196, 1885.

*Clytarlus filipes* Sharp, Fauna Hawaiensis, II, p. 99, 1900.

*Neoclytarlus filipes*, Perkins, Proc. Haw. Ent. Soc., VII, p. 382, 1931.

Mauna Loa, HAWAII (Blackburn)); Kona, Kau, Kilauea (Perkins); Huehue (Swezey). Attached to *Sophora chrysophylla*. Reared from *Maba sandwicensis* at Puuwaawaa Ranch, Hawaii, August, 1929 (Williams).

**Neoclytarlus mediocris (Sharp).**

*Clytarlus mediocris* Sharp, Fauna Hawaiensis, II, p. 99, Pl. VI, figs. 1, 1b, 1900.

*Neoclytarlus mediocris*, Perkins, Proc. Haw. Ent. Soc., VI, p. 485, 1927.

Haleakala, 3,000-5,000 ft., MAUI (Perkins). Attached to *Sophora chrysophylla*.

**Neoclytarlus debilis (Sharp).**

*Clytarlus debilis* Sharp, Fauna Hawaiensis, II, p. 99, 1900.

*Neoclytarlus debilis*, Swezey, Proc. Haw. Ent. Soc., VI, p. 198, 1925.

Mauna Loa, 4,000 ft., Hualalai, 5,000 ft., HAWAII (Perkins); South Kona (Swezey). Host tree: *Acacia koa*.

**Neoclytarlus obscurus (Sharp).**

*Clytarlus obscurus* Sharp, Fauna Hawaiensis, II, p. 100, 1900.

*Neoclytarlus obscurus*, Perkins, Proc. Haw. Ent. Soc., VI, p. 485, 1927.

Various localities, 3,000 ft., KAUAI (Perkins); Kaholuamano (Kusche). Host tree: *Acacia koa*.

**Neoclytarlus claviger (Sharp).**

*Clytarlus claviger* Sharp, Fauna Hawaiensis, II, p. 101, 1900.

*Neoclytarlus claviger*, Swezey, Proc. Haw. Ent. Soc., VI, p. 198, 1925.

Kilauea, HAWAII (Perkins). Host tree: *Acacia koa*.

**Neoclytarlus laticollis (Sharp)**

*Clytarlus laticollis* Sharp, Fauna Hawaiensis, II, p. 101, 1900.  
*Neoclytarlus laticollis*, Swezey, Proc. Haw. Ent. Soc., VI, p. 198, 1925.

Haleakala, 5,000 ft., MAUI (Perkins). Host tree: *Acacia koa*.

**Neoclytarlus abnormis (Sharp).**

*Clytarlus abnormis* Sharp, Fauna Hawaiensis, II, p. 102, 1900.  
*Neoclytarlus abnormis*, Perkins, Proc. Haw. Ent. Soc., VI, p. 481, 1927.

Olaa, HAWAII (Perkins). Probably attached to Metrosideros or Straussia.

**Neoclytarlus nodifer (Sharp).**

*Clytarlus nodifer* Sharp, Fauna Hawaiensis, II, p. 102, 1900.  
*Neoclytarlus nodifer*, Perkins, Proc. Haw. Ent. Soc., VI, p. 485, 1927.

Kona, 3,000 ft., HAWAII (Perkins); Puuwaawaa (Giffard); Humuula (Meinecke); Judd Trail, Kona (Swezey). Host tree: *Acacia koa*.

**Neoclytarlus longipes (Sharp)**

*Clytarlus longipes* Sharp, Fauna Hawaiensis, II, p. 103, Pl. VI, fig. 4, 1900.

*Neoclytarlus longipes*, Swezey, Proc. Haw. Ent. Soc., VI, p. 198, 1925.  
 KAUAI (Perkins); Kaholuamano (Kusche). Host tree: *Acacia koa*. Bred from *Alphitonia excelsa* at Halemanu by Swezey, June, 1932.

**Neoclytarlus annexens (Sharp).**

*Clytarlus annexens* Sharp, Fauna Hawaiensis, II, p. 104, 1900.  
*Neoclytarlus annexens*, Swezey, Proc. Haw. Ent. Soc., VI, p. 198, 1925.

KAUAI (Perkins); 3,500-4,000 ft., Kauai (Kusche). Host tree: *Acacia koa*.

**Neoclytarlus ultimus (Sharp).**

*Clytarlus ultimus* Sharp, Fauna Hawaiensis, III, p. 645, 1910.  
*Neoclytarlus ultimus*, Perkins, Proc. Haw. Ent. Soc., VI, p. 485, 1927.

Tantalus, Pauoa, OAHU (Koebele, Perkins). Host tree: *Acacia koa*.

**Neoclytarlus immundus (Sharp).**

*Plagithmysus immundus* Sharp, Fauna Hawaiensis, III, p. 646, 1910.  
*Neoclytarlus immundus*, Perkins, (in letter, Jan. 9, 1927), Proc. Haw. Ent. Soc., VII, p. 16, 1928.

North Kona, HAWAII (Perkins, Giffard). Host tree not known.

**Neoclytarlus indecens** (Perkins).

*Clytarlus indecens* Perkins, Proc. Haw. Ent. Soc., IV, p. 346, 1920.

*Neoclytarlus indecens*, Bridwell, Proc. Haw. Ent. Soc., IV, p. 454, 1921.

Mt. Kaala, OAHU, September 7, 1913 (Osborn). Bred from *Smilax sandwicensis*, Mt. Kaala, July 9, 1916 (Swezey); Kaala, 1919, 1920 (Bridwell); Kahana, 1927, Waipio Ridge, 1929 (Swezey).

**Neoclytarlus indecens** var. **kinaluensis** Perkins.

Perkins, Proc. Haw. Ent. Soc., VII, p. 418, 1931.

Kainalu, 2,000 ft., MOLOKAI. Bred by Swezey from *Smilax sandwicensis*.

**Neoclytarlus euphorbiae** Bridwell.

Bridwell, Proc. Haw. Ent. Soc., IV, p. 323, 1920.

Ewa Coral Plain, OAHU (Bridwell, Swezey, Bryan). A large series bred from stems of *Euphorbia multiformis*.

**Neoclytarlus pulchrior** Perkins.

Perkins, Proc. Haw. Ent. Soc., VI, p. 482, 1927.

A single specimen known. It was found unlabelled among some miscellaneous specimens; hence, collector, locality and host plant are not known.

**Neoclytarlus fugitivus** Perkins.

Perkins, Proc. Haw. Ent. Soc., VI, p. 483, 1927.

Haleakala, 4,500 ft., MAUI. One specimen collected January 14, 1926, along the Kula Pipe Line trail by Swezey. Host plant not known.

**Neoclytarlus smilacis** Perkins.

Perkins, Proc. Haw. Ent. Soc., VI, p. 484, 1927.

Waikamoi, 4,500 ft., MAUI. Bred by Swezey from larvae in stems of *Smilax sandwicensis*, Jan., Feb., 1926.

**Neoclytarlus raillardiæ** Perkins.

Perkins, Proc. Haw. Ent. Soc., VII, p. 416, 1931.

Summit of Haleakala, MAUI. A dozen collected by Swezey, June 17, 1927, from clumps of half-dead *Raillardia ciliolata* bushes, and larvae also found in dead stems.

**Neoclytarlus geranii** Perkins.

Perkins, Proc. Haw. Ent. Soc., VII, p. 417, 1931.

Haleakala, 6,000 ft., MAUI. Beetles collected by Swezey, June 15, 1927, from clumps of *Geranium trifida*, and larval burrows and exit holes found in dead stems.

**Paraclytarlus timberlakei** Perkins.

Perkins, Proc. Haw. Ent. Soc., VI, p. 480, 1927.

Mt. Olympus, OAHU. A single specimen collected on ohia lehua by Timberlake in 1916.

**Paraclytarlus pipturicola** Perkins.

Perkins, Proc. Haw. Ent. Soc., VI, p. 481, 1927.

Kailua, MAUI. A single specimen collected June 14, 1920, by Bryan on *Pipturus albidus*.

**Paraclytarlus podagricus** Perkins.

Perkins, Proc. Haw. Ent. Soc., VI, p. 482, 1927.

Upper Hamakua Ditch trail, Kohala Mts., HAWAII. A single specimen collected by Swezey September 2, 1919. Host tree not known.