

Revision of the Genus *Eremidium* Karsch with Descriptions of Sixteen New Species (Acridoidea: Lentulidae)

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ABSTRACT

Twenty-seven species of *Eremidium* are now known. In this paper sixteen new species are named and described. The genus ranges along the eastern scarp of South Africa, preferring lush vegetation, often at the margins of forests, but also occurring in the eastern extension of the fynbos region of the Cape. Illustrations of *Nyassacris* are provided for comparison.

INTRODUCTION

The genus *Eremidium* included ten species prior to this work. Here eighteen new species are named and described. The genus ranges from near Mossel Bay in the Cape up to the Zoutpansberge, the mountain range in the far north of South Africa, and beyond into Manicaland, Zimbabwe. The species are confined to the wetter eastern and southern slopes of South Africa. The genus appears most closely related to *Armstrongium* Brown 2014, *Silvanidium* Brown 2012, and *Nyassacris* Ramme.

SYSTEMATICS

Genus ***EREMIDIUM*** Karsch 1896

Eremidium, Karsch. 1896. Stett. Entomol. Z. 57:280. Type species: *Eremidium equuleus* Karsch

LIST OF SPECIES

manicaense Brown — Map 1, Fig 30.
albanienne Brown — Map 4, Fig. 30.
attenuatus Dirsh — Map 3. Figs. 1, 5, 18.
quati new species — Map 3. Figs. 1, 4, 18.
sesta new species — Map 3. Figs. 1, 4, 18.
dosi new species — Map 3. Figs. 1, 5, 18.

basuto Brown — Map 1, 2. Figs. 1, 6, 19.
erectus Dirsh — Map 1, 2. Figs. 1, 6, 19.
curvicercus Dirsh — Map 2. Figs. 1, 7, 19.
denticercus Dirsh — Map 1. Figs. 1, 7, 19.
otuso new species — Map 1. Figs. 2, 8, 20.
anono new species — Map 1. Figs. 2, 8, 20.
hunda new species — Map 3. Figs. 2, 9, 21.
samada new species — Map 3. Figs. 2, 9, 21.
obtusus Dirsh — Map 3. Figs. 2, 10, 21.
nodena new species — Map 1, 2. Figs. 2, 11, 22.
kevusco new species — Map 2. Figs. 2, 11, 22.
maius Ramme — Map 2. Figs. 2, 12, 22.
equuleus Karsch — Map 2. Figs. 2, 12, 22.
gaape new species — Map 3. Figs. 2, 13, 22.
vernoncrookei new species — Map 2. Figs. 3, 15, 23, 26, 28.
pondo new species — Map 2. Figs. 3, 16, 23.
yandi new species — Map 2. Figs. 3, 16, 23.
benga new species — Map 2. Figs. 3, 15, 23.
sinka new species — Map 1. Figs. 3, 14, 24.
vuscu new species — Map 2. Figs. 3, 17, 24.
macmac new species — Map 1. Figs. 3, 25.
oribi new species — Map 3. Figs. 27, 29.
Nyassacris uvarovi Ramme — Figs. 3, 17, 24
Silvanidium armstrongi Brown — Map 3. Fig 33
Silvanidium aculeatum Brown — Map 3. Fig 33
Armstrongium viridipes Brown — Map 3. Figs. 31, 32
Armstrongium pondoense Brown — Map 3. Fig 33

DEPOSITION OF TYPES

The location of the type specimens is indicated under each species. Most of the specimens studied in the project were borrowed from the South African National Collection of Insects, Biosystematic Division, ARC-Plant Protection Research Institute, Pretoria (SANC). *Eremidium oribi* and *E. vernoncrookesi* holotypes are deposited in the Academy of Natural Sciences, Philadelphia.

SPECIES ACCOUNTS

Eremidium manicaense Brown 2012
Map 1, Fig. 30

Eremidium manicaense Brown. 2012. Annals Ditsong National Museum of Natural History, 2: 47-68. Holotype male. Zimbabwe, Mutare district] Christmas Pass [Manicaland Province], [18°25'S 32°42'E], [elev. ~1525 m] 23.i.1959 (leg. G. van Son), sp. no. TMOR3204 – (ex TMSA coll.).

This species was not studied in this work.

Eremidium albanienense Brown 2012
Map 3, Fig. 30

Eremidium albanienense Brown. 2012. Annals Ditsong National Museum of Natural History, 2: 47-68. Holotype male. SOUTH AFRICA, Eastern Cape [Province], [Albany district], Great Fish River Game Reserve, 33°08'S 26°43'E [elev. ~800 m.] 23.i.2001 (leg. M. Pareja) Grasslands West T5 [code No.] R83, sp. no. TMOR 3204 – (ex TMSA coll.).

This species was not studied in this work.

Eremidium attenuatus Dirsh, 1956

Eremidium attenuatus Dirsh. 1956. Jour. ent. Soc. Sthn. Africa 19:262. Type locality: Africa, Southern Africa, Cape Province, Uitenhage. Location of type: BMNH London NH Mus.

Recognition — Map 3. Figs. 1, 5, 18. Head in profile rounded. Frontal ridge viewed from above deeply V-shaped. Pronotum brown with barely any

horizontal bands in central section. Legs 1 and 2 unbanded. Femur-3 with three dark bands on upper face. Tibia-3 pale, greenish. Lateral face of thorax and abdomen with slanting dark markings up to 7th tergite. End of subgenital plate angulate but does not come to a point.

Eremidium quati new species

urn:lsid:zoobank.org:act:ABD40308-9443-4B93-9444-C61DD60F92B5

Type — Holotype male, Cape Province, 20 km NW of Grahamstown, 3 i 1976 (HD Brown) NCI-64. (SANC)

Paratypes — Male, Cape Province, 20 km NW of Grahamstown, 3 i 1976 (HD Brown) NCI-65 — Female, Cape Province, 20 km N of Grahamstown, 1 i 1975 (HD Brown) NCI-67 — Male, Cape Province, 20 km N of Grahamstown, 1 i 1975 (HD Brown) NCI-66.

Recognition — Map 3. Figs. 1, 4, 18. Head in profile rounded. Frontal ridge viewed from above deeply V-shaped. Pronotum strongly banded on lateral lobes—dark above and below and with an ivory horizontal band which extends to the back of the eyes and onto the meso and metanotum Legs 1 and 2 unbanded. Femur-3 with three dark bands on upper face. Tibia-3 pale, greenish. Lateral face of thorax and abdomen with slanting dark markings up to 9th tergite. End of subgenital plate pointed.

Measurements (mm) — NCI-64: body length 12, femur-3 length 6; NCI-65: body length 11.5, femur-3 length 6; NCI-67: body length 15.5, femur-3 length 7; NCI-66: body length 12, femur-3 length 5.5.

Eremidium sesta new species

urn:lsid:zoobank.org:act:71A0E213-6B9A-4746-B0B1-20C9F697466D

Type — Holotype male, Cape Province, 20 miles south of Cradock, 14 ix 1960 (HD Brown) NCI-60. (SANC)

Paratypes — Male, Cape Province, 10 miles W of Albertina, 9 ix 1960 (HD Brown) NCI-63—Male, Cape Province, 50 miles southeast of Steyterville, 21 ii 1958 (HD Brown) NCI-59.

Recognition — Map 3. Figs. 1, 4, 18. Head in

profile rounded. Frontal ridge viewed from above deeply V-shaped. Pronotum slightly banded on lateral lobes—dark above and below and with the pale horizontal band which extends to the back of the eyes and onto the meso and metanotum Legs 1 and 2 unbanded. Femur-3 with three dark bands on upper face. Tibia-3 pale, pale brown. Lateral face of thorax and abdomen without slanting dark markings up to 9th tergite. End of subgenital plate slightly pointed.

Measurements (mm) —NCI-60: body length 11, femur-3 length 5.5; NCI-63: femur-3 length 5.5.

Eremidium dosi new species
 urn:lsid:zoobank.org:act:57007700-23B7-4DA0-B50B-6C9277EDDFDC

Type — Holotype male, E. Cape Province, Jeffreys Bay, 34°03' 01.47" S 24°54' 47.54" E, 24 i 1961 (A. Lea) NCI-62. (SANC)

Recognition — Map 3. Figs. 1, 5, 18. Head in profile rounded. Frontal ridge viewed from above deeply V-shaped. Pronotum slightly banded on lateral lobes—dark above and below and with the pale horizontal band which extends to the back of the eyes and onto the meso and metanotum Legs 1 and 2 unbanded. Femur-3 slightly banded on outer face; with three dark bands on upper face. Tibia-3 pale, pale brown, turning dark brown at apex. Lateral face of thorax and abdomen without slanting dark markings up to 9th tergite. End of subgenital plate slightly pointed.

Measurements (mm) — NCI-62: body length 10.5, femur-3 length 6.

Eremidium basuto Brown, 1962

Eremidium basuto Brown, H.D. 1962. Jour. ent. Soc. Sthn. Africa 25(2):20. Type locality: Africa, Southern Africa, Basutoland, 5 m. S.W. Mokhotlong (Qachas Nek Distr.). Location of type: TMSA Pretoria Transv.— Paratype male, Lesotho, 9000 feet, 5 miles west of Mokhotlong, 25 ii 1959, NCI-69.

Recognition — Map 1, 2. Figs. 1, 6, 19. Dried specimen discolored, perhaps specimen was green in life. Head in profile rounded. Frontal ridge viewed from above narrowly V-shaped. Pronotum without horizontal pale bands on lateral lobe Legs

1 and 2 unbanded. Femur-3 unbanded on outer and upper faces. Tibia-3 pale, pale brown, turning dark brown at apex. Lateral face of thorax and abdomen without slanting dark markings. Upper face separated by lateral faces by a thin pale line End of subgenital plate pointed.

Measurements (mm) — NCI-69: body length 10, femur-3 length 5.

Eremidium erectus Dirsh, 1956

Eremidium erectus Dirsh. 1956. In Hanstrom, Brinck & Rudebeck. South African Animal Life; Results of the Lund University Expedition in 1950-1951 3:121-272. Type locality: Africa, Southern Africa, KwaZulu-Natal, Natal National Park, 28 43 59.66 S 28 54 59.98E. Location of type: BMNH London NH Mus.

Example male — Natal, Little Berg, Cathedral Peak, 28 55 28.80 S 29 08 05.00 E, 24 xi 1963 (HD Brown) NCI-71.

Recognition — Map 1, 2. Figs. 1, 6, 19. Head in profile sharply angled. Frontal ridge viewed from above narrowly V-shaped. Pronotum banded on lateral lobes—dark above and below and with the pale horizontal band which extends to the back of the eyes, dividing on meso and metanotum with pale stripes going to the bases of legs-2 and -3. Legs 1 and 2 unbanded. Femur-3 without dark bands on outer and upper faces. Tibia-3 pale, pale brown, turning dark brown at apex. Lateral face of thorax and abdomen dark, upper face pale. Subgenital plate long and pointed.

Measurements (mm) —NCI-71: body length 12, femur-3 length 6.

Eremidium curvicercus Dirsh, 1956

Eremidium curvicercus Dirsh. 1956. Jour. ent. Soc. Sthn. Africa 19:266. Type locality: Africa, Southern Africa, Cape Province, Hog's Back, mountains NE of Fort Beaufort, S of Elandsberg. Location of type: BMNH London NH Mus.

Example male — Cape Province, Hogsback, 20 iii 1965 (AL Capener) NCI-68.

Recognition — Map 2. Figs. 1, 7, 19. Head in profile with frons not extending beyond eyes.

Frontal ridge viewed from above deeply V-shaped. Pronotum banded on lateral lobes—dark above and below and with the pale horizontal band which extends to the back of the eyes, and extending to the base of leg-2. Legs 1 and 2 unbanded. Femur-3 without dark bands on outer and upper faces. Tibia-3 pale, pale brown, turning dark brown at apex. Lateral face of thorax and abdomen black, upper face pale. Subgenital plate pointed.

Measurements (mm) —NCI-68: body length 13, femur-3 length 6.5

***Eremidium denticercus* Dirsh, 1956**

Eremidium denticercus Dirsh, 1956. Jour. ent. Soc. Sthn. Africa 19:264. Type locality: Africa, Southern Africa, Transvaal, Woodbush. Location of type: TMSA Pretoria Transv.

Example males — Eastern Transvaal, 1 mile south of Haenertsburg, 14 xi 1964 (HD Brown) NCI-81—Eastern Transvaal, 1 mile south of Haenertsburg, 14 xi 1964 (HD Brown) NCI-82—Northern Transvaal, Woodbush Forest, 23 i 1964 (HD Brown) NCI-83.

Recognition — Map 1. Figs. 1, 7, 19. Head in profile sharply angled. Frontal ridge viewed from above flat, flush with front of eyes. Pronotum banded on lateral lobes—dark above and below and with the pale narrow horizontal band which does not extend to the back of the eyes, nor does it extend beyond the hind margin of the pronotum. Legs 1 and 2 unbanded. Femur-3 without dark bands on outer and upper faces. Tibia-3 pale, pale brown, turning dark brown at apex. Lateral face of thorax and abdomen black, upper face pale. Subgenital plate long, somewhat pointed.

Measurements (mm) —NCI-81: body length 13, femur-3 length 6.5; NCI-82: body length 13.5, femur-3 length 7.

***Eremidium otuso* new species**

urn:lsid:zoobank.org:act:CD25FE1E-B9C1-40D0-8BD8-F7E2FB39455F

Type — Holotype male, Eastern Transvaal, 3 miles east of Graskop, 11 xi 1964 (H Snyman) NCI-89. (SANC)

Paratypes — Male, same data, NCI-90 — Male, same data, NCI-91.

Recognition — Map 1. Figs. 2, 8, 20. Head in profile sharply pointed. Frons flat not extending forward of the eyes. Frontal ridge viewed from above slightly rounded. Pronotum banded on lateral lobes—dark above and below and with the pale horizontal band which extends to the back of the eyes, and extending to the base of leg-2. Legs 1 and 2 unbanded. Femur-3 with dark bands on outer and upper faces. Tibia-3 pale, pale brown, turning dark brown at apex. Lateral face of thorax and abdomen black, upper face pale. Subgenital plate ending in a spine.

Measurements (mm) —NCI-89: body length 12, femur-3 length 6; NCI-90: body length 13, femur-3 length 6; NCI-91: body length 19, femur-3 length 8

***Eremidium anono* new species**

urn:lsid:zoobank.org:act:E289E912-2E64-442E-994F-8608A954E6BB

Type — Holotype male, Eastern Transvaal, summit, Mariepskop, 15 iv 1967 (HD Brown) NCI-70. (SANC)

Paratypes — Male, Eastern Transvaal, Mariepskop Forest Reserve, 26 xi 1968 (HD Brown) NCI-86 — Male, Eastern Transvaal, Mariepskop Forest Reserve, 4 xi 1971 (HD Brown) NCI-88 — Female, Eastern Transvaal, Mariepskop Forest Reserve, 26 xi 1968 (HD Brown) NCI-87.

Recognition — Map 1. Figs. 2, 8, 20. Head in profile somewhat rounded. Frontal ridge viewed from above slightly rounded. Pronotum banded on lateral lobes—dark above and below and with the pale horizontal band which extends to the back of the eyes, and extending to the base of leg-2. Legs 1 and 2 unbanded. Femur-3 unbanded on outer and upper faces. Tibia-3 pale, pale brown, turning dark brown at apex. Lateral face of thorax and abdomen black, upper face pale, with a narrow pale band separating dorsal and lateral fields. Subgenital plate long, ending in a spine.

Measurements (mm) —NCI-70: body length 12, femur-3 length 6; NCI-86: body length 12.5, femur-3 length 6; NCI-88: body length 12.5, 6.5; NCI-87: body length 17.5, femur-3 length 8.

Eremidium hunda new species

urn:lsid:zoobank.org:act:3F8F4B54-3A80-4E5B-84DB-677FF08A4319

Type — Holotype male, Cape Province, Storms River, 2 ii 1959 (HD Brown) NCI-103. (SANC)

Recognition — Map 3. Figs. 2, 9, 21. Head in profile slightly angled. Frontal ridge viewed from above deeply and narrowly V-shaped. Pronotum banded on lateral lobes—dark above and below and with the pale narrow horizontal band which does not extend to the back of the eyes, nor does extend beyond the hind margin of the pronotum. Legs 1 and 2 unbanded. Femur-3 without dark bands on outer and upper faces. Tibia-3 pale, pale brown, turning dark brown at apex. Lateral face of thorax and abdomen with dark patches but dorsal face not much lighter than lateral face. Subgenital plate short, not particularly? pointed.

Measurements (mm) —NCI-103: body length 12, femur-3 length 6.

Eremidium samada new species

urn:lsid:zoobank.org:act:BE42FA9C-802C-4596-A9A7-0BA92ED51018

Type — Holotype male, Cape Province, Keurbooms River, 11 ix 1960 (HD Brown) NCI-108. (SANC)

Paratypes — Male, Cape Province, Keurbooms River, 11 ix 1960 (HD Brown) NCI-101.

Recognition — Map 3. Figs. 2, 9, 21. Head in profile sharply angled. Frontal ridge viewed from above moderately V-shaped. Pronotum banded on lateral lobes—dark above and below and with the pale narrow horizontal band which does not extend to the back of the eyes, nor does it extend beyond the hind margin of the pronotum. Legs 1 and 2 unbanded. Femur-3 without dark bands on outer and upper faces. Tibia-3 pale, pale brown, turning dark brown at apex. Lateral face of thorax and abdomen with dark patches but dorsal face not much lighter than lateral face. Subgenital plate short, not particularly pointed.

Measurements (mm) — NCI-108: body length 11, femur-3 length 5.5; NCI-101: body length 11.5, femur-3 length 6.

Eremidium obtusus Dirsh, 1956

Eremidium obtusus Dirsh. 1956. In Hanstrom, Brinck & Rudebeck. South African Animal Life; Results of the Lund University Expedition in 1950-1951 3:121-272. Africa, Southern Africa, Cape Province, Tzitzikama Forest. Location of type: MZLU Lund.

Recognition — Map 3. Figs. 2, 10, 21. A rather pale species. Frontal ridge viewed from above moderately V-shaped. Head in profile sharply angled. Pronotum banded on lateral lobes—slightly darker above and below and with the pale narrow horizontal band which extends to the back of the eyes, backwards to the base of leg-2. Legs 1 and 2 unbanded. Femur-3 dark, with slight banding on lateral and upper faces. Lateral face of thorax mostly pale; abdomen with slanting dark patches on the lateral face. Subgenital plate short, not particularly pointed.

Eremidium nodena new species

urn:lsid:zoobank.org:act:5A5C0D44-9F7A-449A-B60E-5C70574288F2

Type — Holotype male, Natal, Dukuduku forest, 7 miles NE Mtubatuba, 10 xi 1969 (HD Brown) NCI-73. (SANC)

Paratypes — Paratype male, Natal, Dukuduku forest, St. Lucia, 16 ii 1971 (HD Brown and Koster) NCI-74—Female, Natal, Dukuduku forest, February 1971 (HD Brown) NCI-75—Female, Natal, Dukuduku forest, February 1971 (HD Brown) NCI-76.

Recognition — Map 1, 2. Figs. 2, 11, 22. Very similar to *E. otuso*. Head in profile sharply pointed. Frons flat not extending forward of the eyes. Frontal ridge viewed from above slightly rounded. Pronotum banded on lateral lobes—dark above and below and with the pale horizontal band which extends to the back of the eyes, and extending to the base of leg-2. Legs 1 and 2 unbanded. Femur-3 with slight dark bands on outer face but not on upper face. Tibia-3 pale, pale brown. Lateral face of thorax and abdomen black, upper face pale. Subgenital plate ending in a spine.

Measurements (mm) — NCI-73: body length 15, femur-3 length 8; NCI-74: body length 14.5,

femur-3 length 7; NCI-75: body length 22, femur-3 length 10.

Eremidium kevusco new species

urn:lsid:zoobank.org:act:3C5384B0-DF41-43E7-ABB4-53D5F673AAF1

Type — Holotype male, Eastern Cape Province, Port St. John, 4 xii 1969 (AL Capener) NCI-93. (SANC)

Recognition — Map 2. Figs. 2, 11, 22. A pale species. Head in profile sharply pointed. Frons flat not extending forward of the eyes. Frontal ridge viewed from above slightly flat. Pronotum banded on lateral lobes—dark above and below and with the pale horizontal band which does not extend to the back of the eyes or beyond the rear pronotal margin. Pale band on lateral lobe somewhat interrupted. Lower front corner of lateral lobe with a small pale patch. Legs 1 and 2 unbanded. Femur-3 with slight dark bands on outer face but not on upper face. Tibia-3 pale, pale brown. Lateral face of thorax and abdomen black along the upper side of the lateral face. Subgenital plate short, not ending in a distinct spine.

Eremidium maius Ramme, 1929

Eremidium maius Ramme. 1929. Mitt. Zool. Mus. Berlin 15:299. Type locality: Africa, Southern Africa, Cape Province, Pondoland. Location of type: BMNH London NH Mus.

Example males — Eastern Cape Province, Port St. John, 3 xii 1969 (AL Capenar) NCI-92 — Cape Province, East London, 11 iii 1922, NCI-98.

Recognition — Map 2. Figs. 2, 12, 22. Head in profile sharply pointed. Frons flat not extending forward of the eyes. Frontal ridge viewed from above slightly rounded. Pronotum slightly banded on lateral lobes—dark above and below and with narrow pale horizontal band which does not extend to the back of the eyes or beyond the rear pronotal margin. Legs 1 and 2 unbanded. Femur-3 unbanded. Tibia-3 pale, pale brown. Lateral face of abdomen with black along the upper side of the lateral face. Subgenital plate short, not ending in a distinct spine.

Measurements (mm) — NCI-92: body length

18, femur-3 length 9.5

Eremidium equuleus Karsch, 1896

Eremidium equuleus Karsch. 1896. Stett. Entomol. Z. 57:281. Type locality: Africa, Southern Africa, South Africa: Pondoland, Marburg? Location of type: ZMB Berlin Mus.

Example male — Eastern Cape, Pondoland, Embotyi Forest, 25 ii 1957 (G. van Son) B3-16

Recognition — Map 2. Figs. 2, 12, 22. Similar to *kevusco*. A pale species with strong black and yellowish markings. Frontal ridge viewed from above slightly rounded. Head in profile sharply pointed. Frons flat not extending forward of the eyes. Pronotum banded on lateral lobes—dark above and below and with the pale horizontal band which does not extend to the back of the eyes or beyond the rear pronotal margin. Pale band on lateral lobe somewhat interrupted. Lower front corner of lateral lobe with a small pale patch. Legs 1 and 2 unbanded. Femur-3 with slight dark bands on outer face but not on upper face. Tibia-3 pale, pale brown. Lateral face of thorax and abdomen black along the upper side of the lateral face. Subgenital plate short, not ending in a distinct spine.

Eremidium gaape new species

urn:lsid:zoobank.org:act:7CDCF47F-BFE3-4F69-BC26-2CBE3219D325

Type — Holotype male, South West Cape, Palmietvlei, S Clarkson, 19 xi 1958 (HD Brown) NCI-100.

Paratypes — Male, Cape Province, Prince Alfreds Pass, 15 xi 1958 (HD Brown) NCI-105— Male, South West Cape, Palmietvlei, S Clarkson, 19 xi 1958 (HD Brown) NCI-107— Male, Cape Province, Outeniqua Mountains, Prince Alfred, 15 xi 1958 (HD Brown) NCI-106— Male, Cape Province, Outeniqua Mountains, Prince Alfred Pass, 15 xi 1958 (HD Brown) NCI-104 .

Recognition — Map 3. Figs. 2, 13, 22. Head in profile sharply pointed. Frons flat not extending forward of the eyes. Frontal ridge viewed from above deeply and narrowly V-shaped. Pronotum banded on lateral lobes—dark above and below and

with narrow pale horizontal band which does not extend to the back of the eyes or beyond the rear pronotal margin. Legs 1 and 2 unbanded. Femur-3 unbanded. Tibia-3 pale, pale brown. Lateral face of the abdomen with slanting black along the upper side of the lateral face. Subgenital plate short, not ending in a distinct spine.

Measurements (mm) — NCI-100: body length 10.5, 5.5; NCI-105: femur-3 length 6; NCI-107: femur-3 length 5.5; NCI-106: body length 11, femur-3 length 6.

Eremidium vernoncrookesi new species

urn:lsid:zoobank.org:act:990E3F25-7375-43B1-B20C-D6EB2C93484A

Type — Holotype male, KwaZulu Natal, Vernon Crooke Reserve, 30 16 51.72S, 30 35 39.31E, 27 November 2014 (Otte and Thom). Academy of Natural Sciences, Philadelphia.

Recognition — Map 2. Figs. 3, 15, 23. Head in profile sharply pointed. Frons flat not extending forward of the eyes. Frontal ridge viewed from above slightly flattened. Pronotum banded on lateral lobes—dark above and below and with narrow pale horizontal band which does not extend to the back of the eyes or beyond the rear pronotal margin. Legs 1 and 2 unbanded, green. Femur-3 unbanded. Tibia-3 green. Lateral face of abdomen black, pale on the dorsal face. Subgenital plate short.

Specimens — KwaZulu Natal, Vernon Crooke Reserve, 30 16 51.72S, 30 35 39.31E, 27 November 2014 (Otte and Thom) — 10 males, 9 females. Uvongo, 80 miles SW of Durban, 2-18 xi 1961 (HD Brown) NCI-110

Eremidium pondo new species

urn:lsid:zoobank.org:act:A0F12A79-5BA6-4E2F-AD23-A9D38EB3DE5E

Type — Holotype male. Cape Province, Bizana District, Jan 1932, NCI-96. (SANC)

Paratypes — Paratype male, Uvongo, 80 miles SW of Durban, 28 xi 1961, NCI-109.

Recognition — Map 2. Figs. 3, 16, 23. Head in profile sharply pointed. Frons flat not extending forward of the eyes. Frontal ridge viewed from above shallowly U-shaped. Pronotum banded on

lateral lobes—dark above and below and with narrow pale horizontal band which does not extend to the back of the eyes or beyond the rear pronotal margin. Legs 1 and 2 unbanded, brown. Femur-3 unbanded, patterned dark and light brown. Tibia-3 yellowish. Lateral face of abdomen black, pale on the dorsal face. Subgenital plate short.

Measurements (mm) — NCI-96: femur-3 length 7; NCI-109: femur-3 length 7.

Eremidium yandi new species

urn:lsid:zoobank.org:act:47753271-64CA-4811-AD8C-F714F9DE6979

Type — Holotype male, Natal, Umkomaas, 20 x 1969 (AL Capener) NCI-99. (SANC)

Recognition — Map 2. Figs. 3, 16, 23. Head in profile sharply pointed. Frons flat not extending forward of the eyes. Frontal ridge viewed from above slightly rounded. Pronotum largely unbanded on lateral lobes -- dark brown. Legs 1 and 2 unbanded, brown. Femur-3 greenish, unbanded, with a single dark band on upper face. Tibia-3 greenish. Lateral face of abdomen black on the lateral face, pale on the dorsal face. Subgenital plate short.

Measurements (mm) — NCI-99: body length 16, femur-3 length 8.

Eremidium bengalensis new species

urn:lsid:zoobank.org:act:A076176C-C128-45B5-B536-FD1814947ED7

Type — Holotype male, Eastern Cape Province, Pondoland, Bizana District, Jan 1922, NCI-95. (SANC)

Recognition — Map 2. Figs. 3, 15, 23. Head in profile sharply pointed. Frons flat not extending forward of the eyes. Pronotum largely unbanded on lateral lobes — dark brown. Frontal ridge viewed from above slightly flat. Legs 1 and 2 unbanded, brown. Femur-3 yellow-orange, unbanded, with a single dark band on upper face. Tibia-3 yellowish. Lateral face of abdomen black on the lateral face, pale on the dorsal face. Subgenital plate short.

Measurements (mm) — NCI-95: femur-3 length 7.

Eremidium sinka new species

urn:lsid:zoobank.org:act:7E23A1E9-224C-444A-BAED-88AC98C65C6C

Type — Holotype male, Northern Transvaal, Entabeni Forest, 30 miles east of Luis Trichardt, 14 ii 1963 (MJD White) NCI-85. (SANC)

Paratypes — Paratype male, Northern Transvaal, Entabeni Forest Reserve, Zoutpansberg Mountains, 29 iv 1973 (HD Brown) NCI-84.

Recognition — Map 1. Figs. 3, 14, 24. Very dark, pale only on the upper face of the abdomen. Head in profile very sharply pointed. Frons flat not extending forward of the eyes. Frontal ridge viewed from above slightly rounded. Pronotum lateral lobes with a narrow ivory horizontal band, bordered by black. Legs 1 and 2 unbanded, reddish. Femur-3 yellow-orange, unbanded. Tibia-3 greenish. Lateral face of abdomen black on the lateral face, pale on the dorsal face. Subgenital plate short.

Measurements (mm) — NCI-85: body length 14, femur-3 length 7; NCI-84: femur-3 length 7.

Eremidium vuscu new species

urn:lsid:zoobank.org:act:41AF4639-6CA4-40FB-8CF3-63D76DCBF87E

Type — Holotype male, Natal, Umtentweni, 21 x 1963 (W. Furst) NCI-72. (SANC)

Paratypes — Male, Natal, Umtentweni, 21 x 1963 (W. Furst) NCI-78— Male, Natal, S. Coast, Uvongo, 6 xi 1961 (HD Brown) NCI-77— Male, female, Natal, S. Coast, Uvongo, 6 xi 1961 (HD Brown) NCI-80 — Female, Natal, S. Coast, Uvongo, 6 xi 1961 (HD Brown) NCI-111— Male, Natal, Umtentweni, Feb 1961 (AL Capener) NCI-79 — Female, Eastern Cape, Port St John, 3 xii 1969 (AL Capener) NCI-94. — Female, Eastern Cape, Pondoland, Bizana District, NCI-97.

Recognition — Map 2. Figs. 3, 17, 24. Head in profile sharply pointed. Frons flat not extending forward of the eyes. Frontal ridge viewed from above slightly flat. Pronotum lateral lobes with a narrow ivory horizontal band, bordered by black. Legs 1 and 2 unbanded, reddish. Femur-3 reddish, unbanded. Tibia-3 greenish. Lateral face of abdomen black on the lateral face, pale on the dorsal face. Subgenital plate short.

Measurements (mm) — NCI-72: body length 16, femur-3 length 9; NCI-77: body length 17, femur-3 length 8; NCI-111: body length 15.5, femur-3 length 10; NCI-94: body length 22, femur-3 length 10.5.

Eremidium macmac new species

urn:lsid:zoobank.org:act:80AAC75D-2A80-4A6B-8B48-0E2AB9D1454F

Type — Holotype male, Eastern Transvaal, Mac Mac Falls, 11 xi 1964 (H Snyman) NCI-112. (SANC)

Paratype male, same data, NCI-114.

Recognition — Map 1. Figs. 3, 25. Head in profile very sharply pointed. Frons flat not extending forward of the eyes. Pronotum largely unbanded on lateral lobes -- dark brown Legs 1 and 2 unbanded, brown. Femur-3 yellow-orange, unbanded. Tibia-3 yellowish. Lateral face of abdomen black on the lateral face, pale on the dorsal face. Subgenital plate short.

Measurements (mm) — NCI-122: body length 13, femur-3 length 6.5.

Eremidium oribi new species

urn:lsid:zoobank.org:act:9AC9E965-EAEC-4477-8512-10910931DC53

Type — Holotype male, KwaZulu Natal, Oribit Gorge Area, 30 40 44.54S, 30 14 20.28E, elev. 583 m. 27 November 2014 (Otte and Thom) Academy of Natural Sciences Philadelphia.

Recognition — Map 3. Figs. 27, 29. Head pointed in lateral profile. Frons deeply incaved; broad in top third, narrower in next third, and narrowest in lowest third. Dorsum of pronotum with broad lateral pale bands (these extend onto the head), median third dark brown. Side of head with a broad pale dorsal band, a broad dark band beneath it, and a narrow pale band below that. Lateral lobes strongly banded —upper third very dark, middle third with a broad ivory band, lower third with a dark band. Meso- and metanotum each with a distinct descending ivory band. Dorsum of abdomen with a broad ivory band, partially divided by a darker band in the anterior segments. Legs green, femur-3 green on outer face; tibia-3 greenish

in basal half, turning dark in last third.

Measurements (mm) — Body length 16-18, femur-3 length 8.5.

RELATED GENERA AND SPECIES

Nyassacris uvarovi Ramme

Figs. 3, 17, 24

Nyassacris uvarovi Ramme 1929. Mitt Zool. Mus. Berlin 15:300. Holotype male. Malawi (Nyasaland). BMNH London NH Museum

Armstrongium viridipes Brown

Map 3, Figs 31, 32

Armstrongium viridipes Brown, Annals of the Ditsong National Museum of Natural History Vol 4, pp 33-50. Holotype male, KwaZulu Natal, Vernon Crookes Nature Reserve, 30 39 31S, 30 30 18E, elev. 67 m, TMSA Pretoria.

Armstrongium pondoense Brown

Map 3. Fig 33

Armstrongium pondoense Brown. Annals of the Ditsong National Museum of Natural History Vol 4, pp 33-50. Holotype male, KwaZulu Melville, Armadale Farm no 7911, Henderson Forest, 30 16 51.72S, 30 35 39.31E, elev. 407 m, TMSA Pretoria.

Silvanidium armstrongi Brown

Map 3, Figs 31, 32.

Silvanidium armstrongi Brown. Annals of the Ditsong National Museum of Natural History Vol 2, pp 47-68.

Type — Holotype male, KwaZulu Natal, Vernon Crookes Nature Reserve, 30 16 51.72S, 30 35 39.31E, elev. 407 m, TMSA Pretoria.

Silvanidium aculeatum Brown

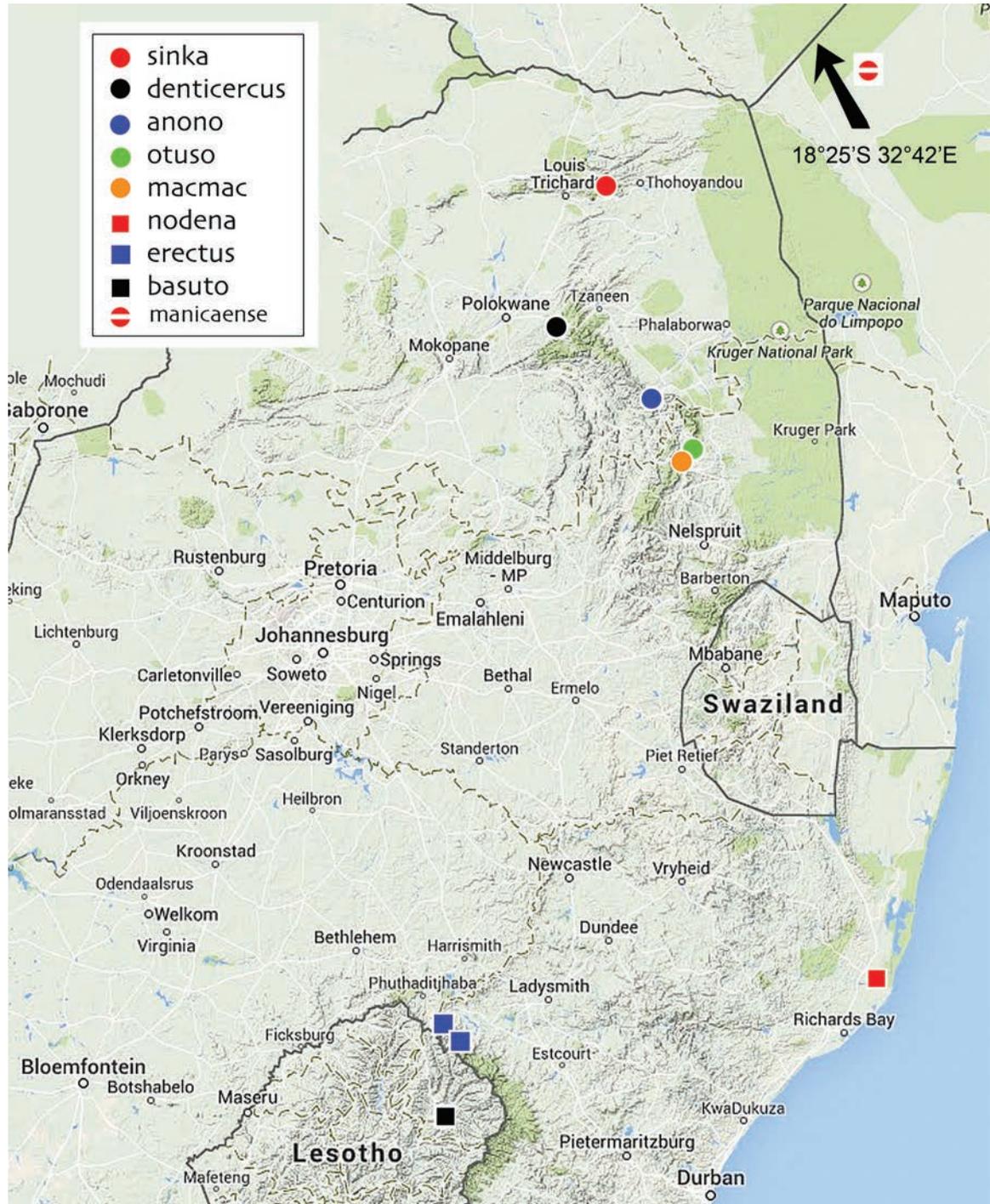
Map 3, Figs 31, 32.

Silvanidium aculeatum Brown. Annals of the Ditsong National Museum of Natural History Vol 2, pp 47-68. Holotype male South Africa, KwaZulu-Natal Province, Ngome Forest Reserve. 27°48'S 31°25'E, 18–22.i.1993 Type preserved in the type collection TMSA.

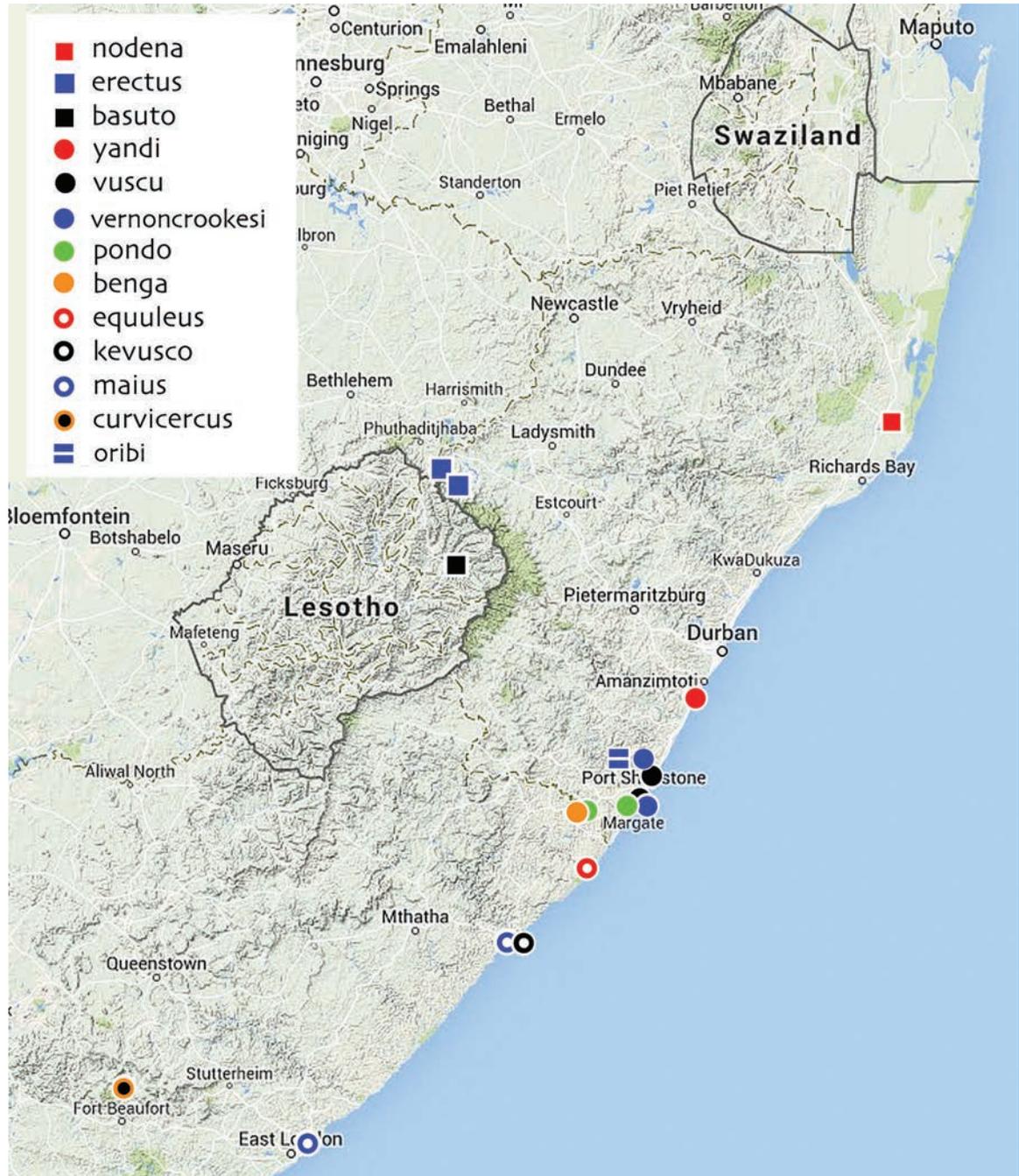
Mitteilungen aus dem Zoologischen Museum in Berlin 15(2): 247-492.

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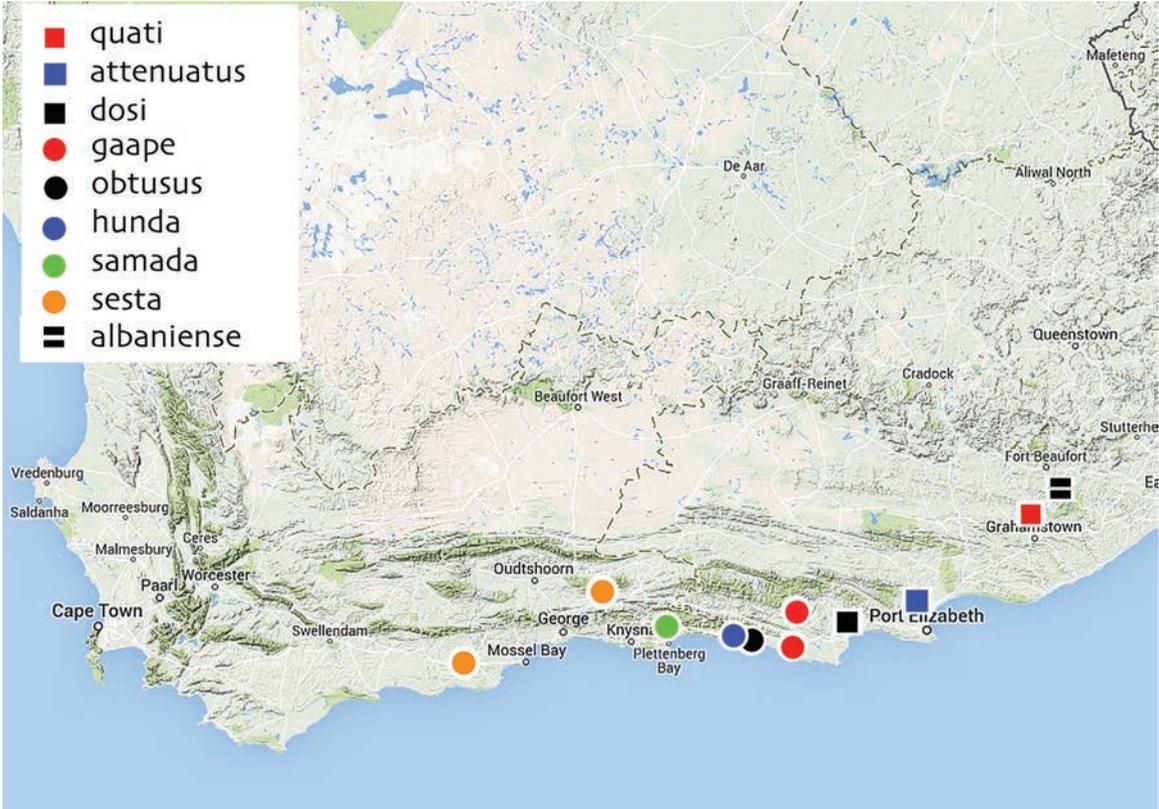
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- Karsch. 1896. Neue Orthopteren aus dem tropischen Afrika. *Stettiner entomologische Zeitung* 57:242-359.
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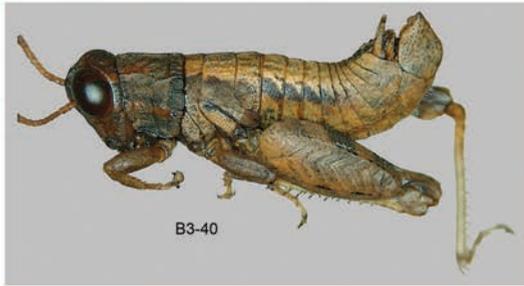
Map 1. Distribution of *Eremidium* species from northeastern South Africa.



Map 2. Distribution of *Eremidium* species from the eastern slopes of South Africa.



Map 3. Distribution of *Eremidium* species from the southern region of South Africa.



attenuatus



basuto



quati



erectus



sesta



curvicercus

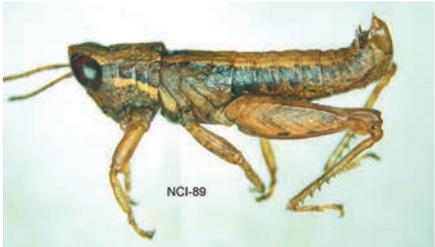


dosi



denticercus

Figure 1. Portraits of eight species of *Eremidium*.



otuso



nodena



anono



kevusco



hunda



maius



sanada



equuleus

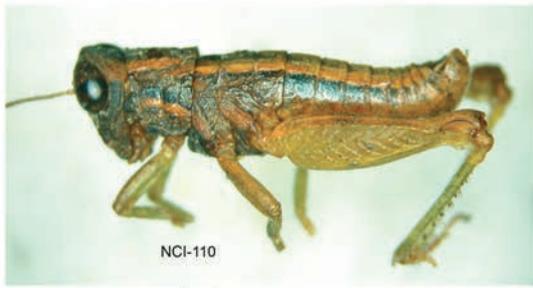


obtusus



gaape

Figure 2. Portraits of ten species of *Eremidium*.



vernoncrookei



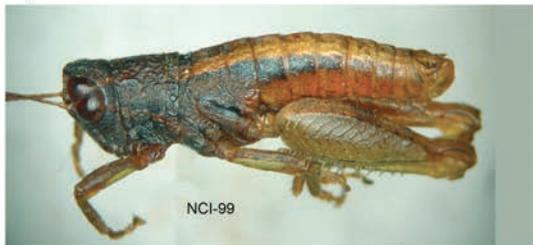
macmac



pondo



sinka



yandi



vuscu



benga



Nyassacris uvarovi

Figure 3. Portraits of seven species of *Eremidium* and *Nyassacris uvarovi*.



quati



sesta

Figure 4. *Eremidium quati* and *E. sesta*. Head, pronotum, end of abdomen and male genitalia (lateral, dorsal, and ventral views of aedeagus and posterior and dorsal views of epiphallus).

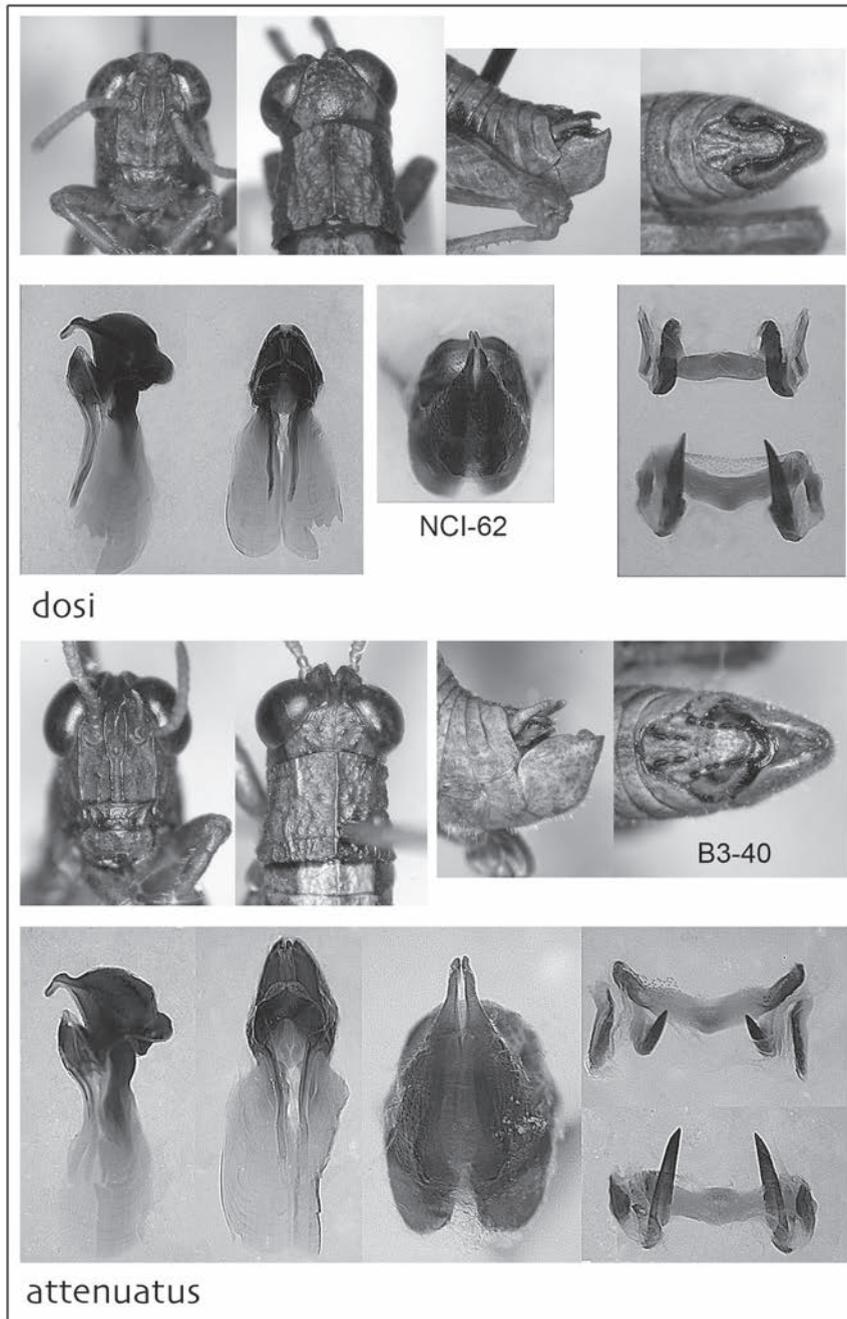


Figure 5. *Eremidium dosi* and *E. attenuatus*. Head, pronotum, end of abdomen and male genitalia (lateral, dorsal, and ventral views of aedeagus and posterior and dorsal views of epiphallus).

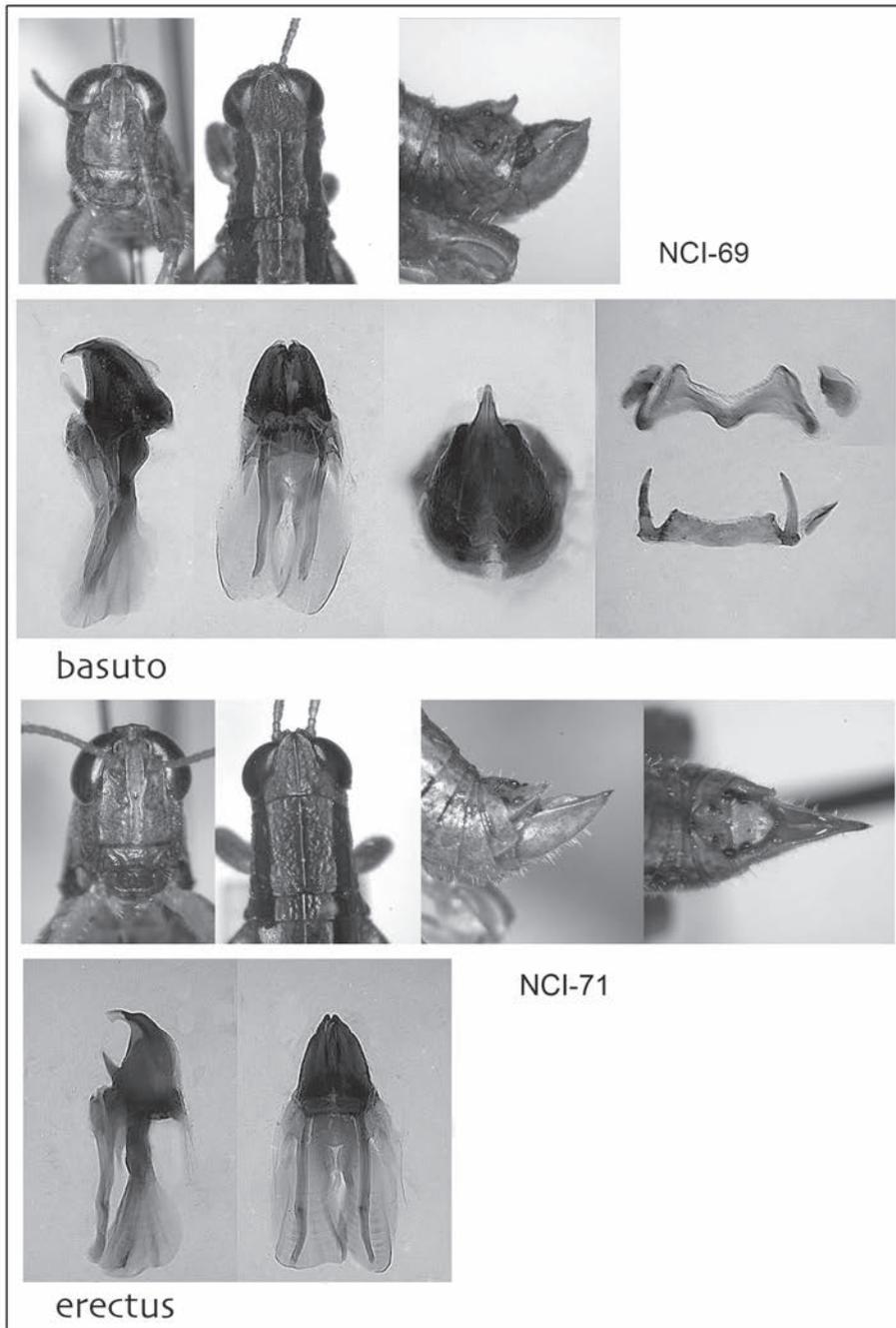


Figure 6. *Eremidium basuto* and *E. erectus*. Head, pronotum, end of abdomen and male genitalia (lateral, dorsal, and ventral views of aedeagus and posterior and dorsal views of epiphallus).

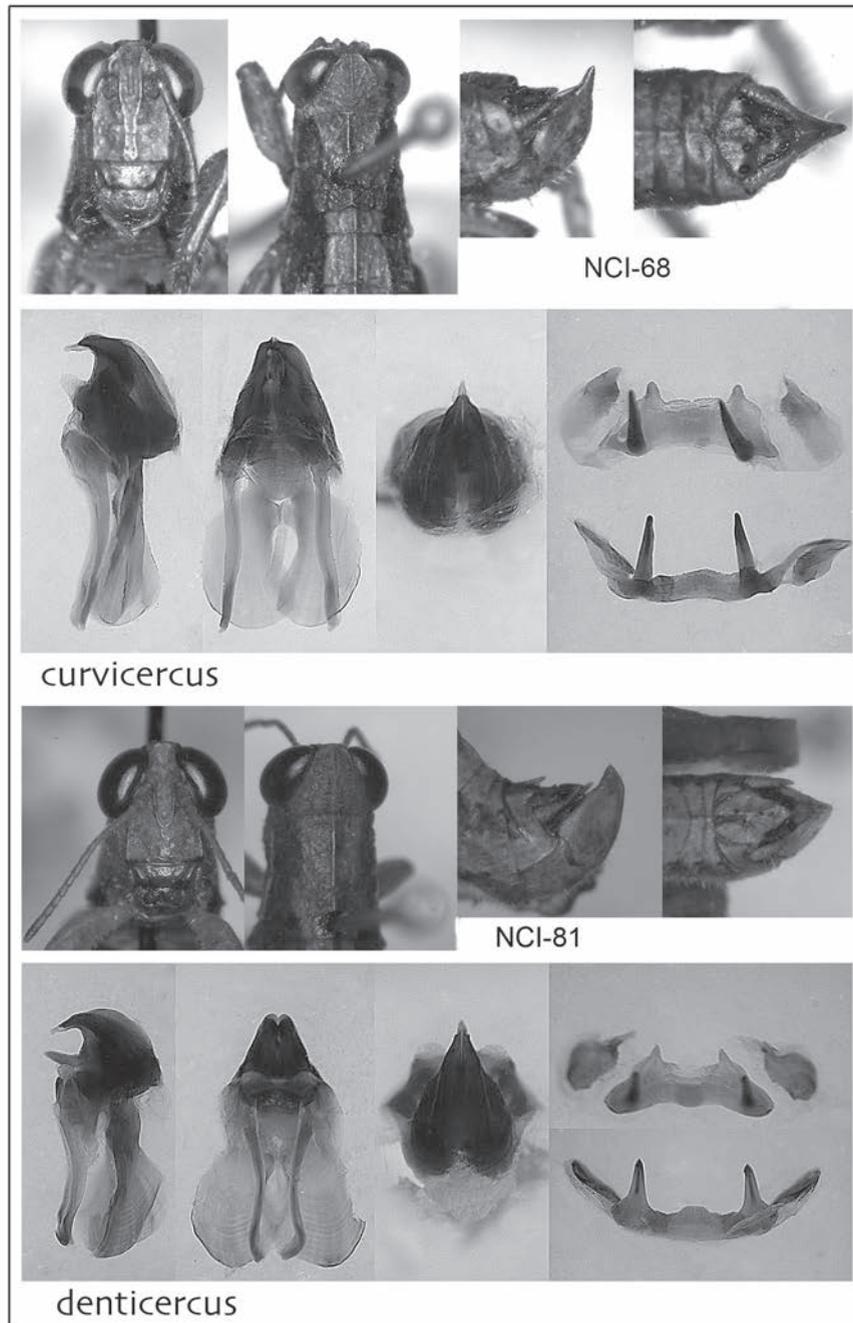


Figure 7. *Eremidium curvicercus* and *E. denticercus*. Head, pronotum, end of abdomen and male genitalia (lateral, dorsal, and ventral views of aedeagus and posterior and dorsal views of epiphallus).

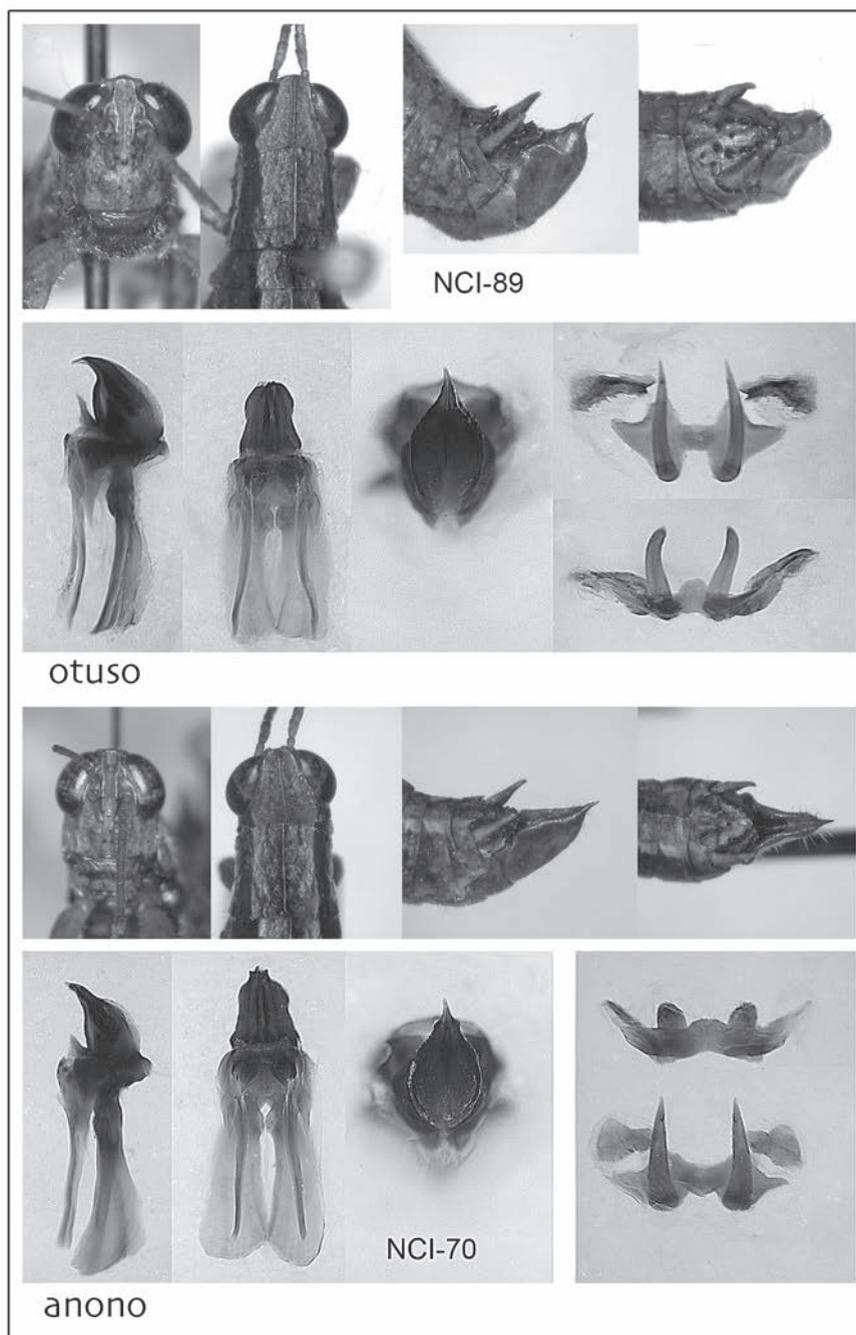


Figure 8. *Eremidium otuso* and *E. anono*. Head, pronotum, end of abdomen and male genitalia (lateral, dorsal, and ventral views of aedeagus and posterior and dorsal views of epiphallus).

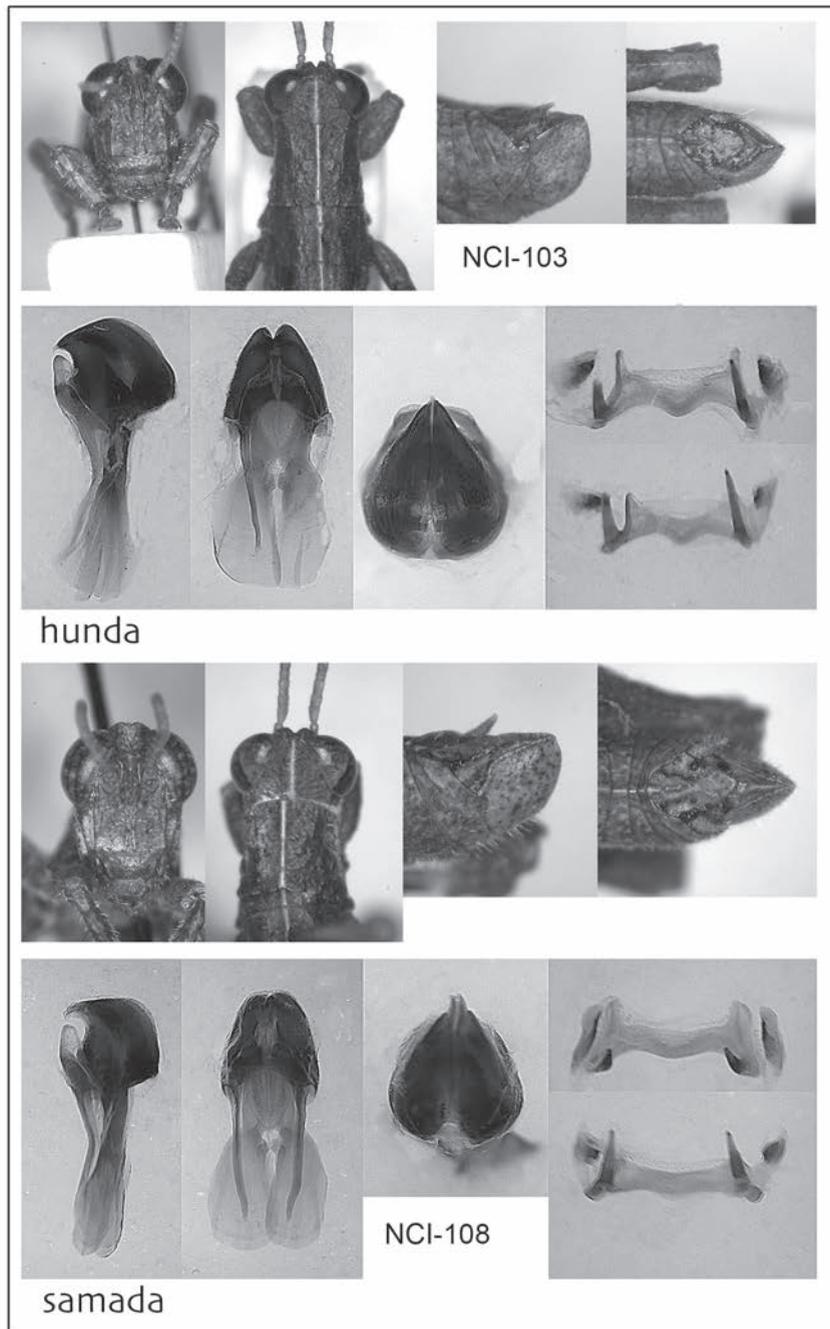


Figure 9. *Eremidium hunda* and *E. samada*. Head, pronotum, end of abdomen and male genitalia (lateral, dorsal, and ventral views of aedeagus and posterior and dorsal views of epiphallus).

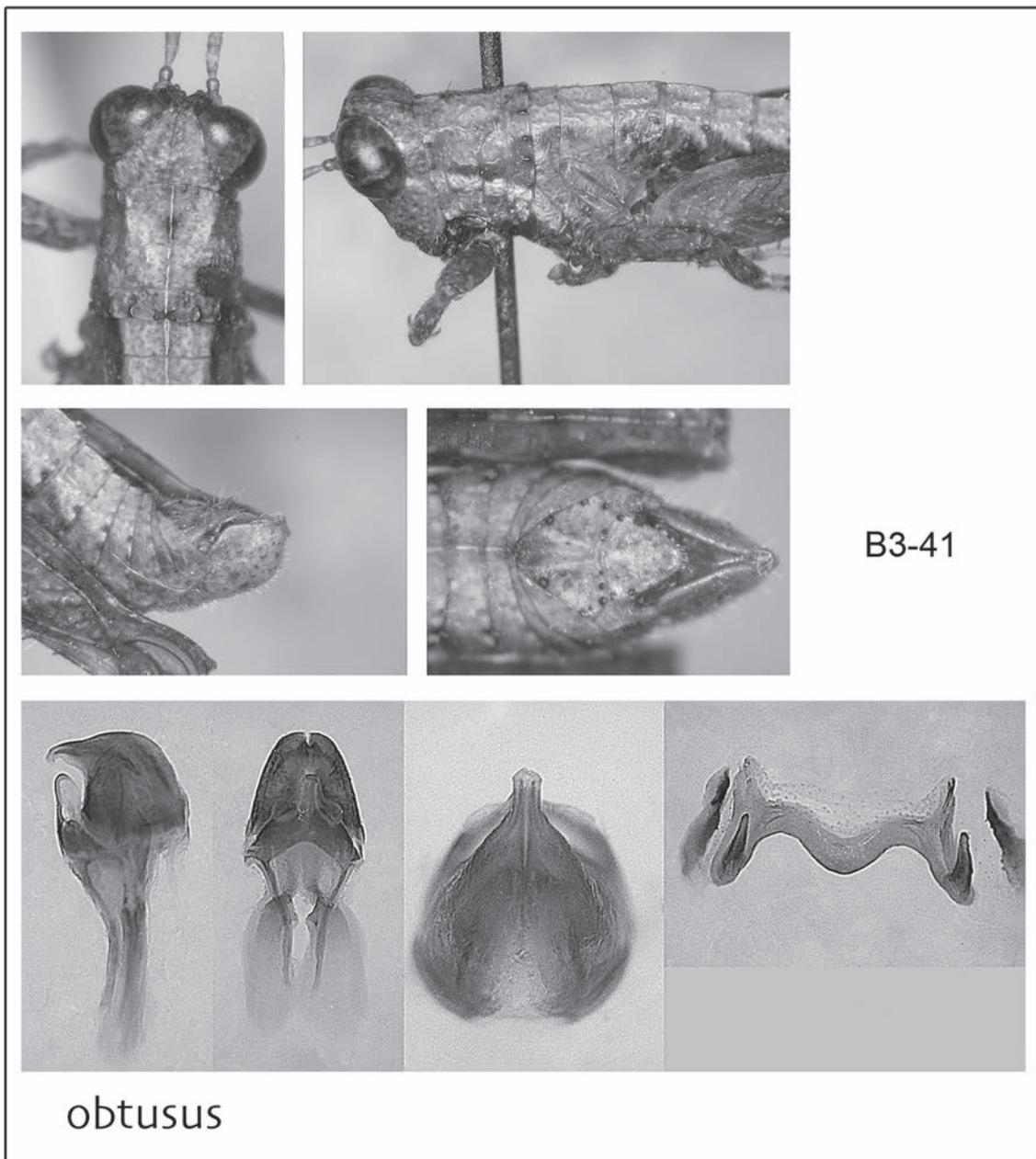


Figure 10. *Eremidium obtusum*. Head, pronotum, end of abdomen and male genitalia (lateral, dorsal, and ventral views of aedeagus and posterior and dorsal views of epiphallus).

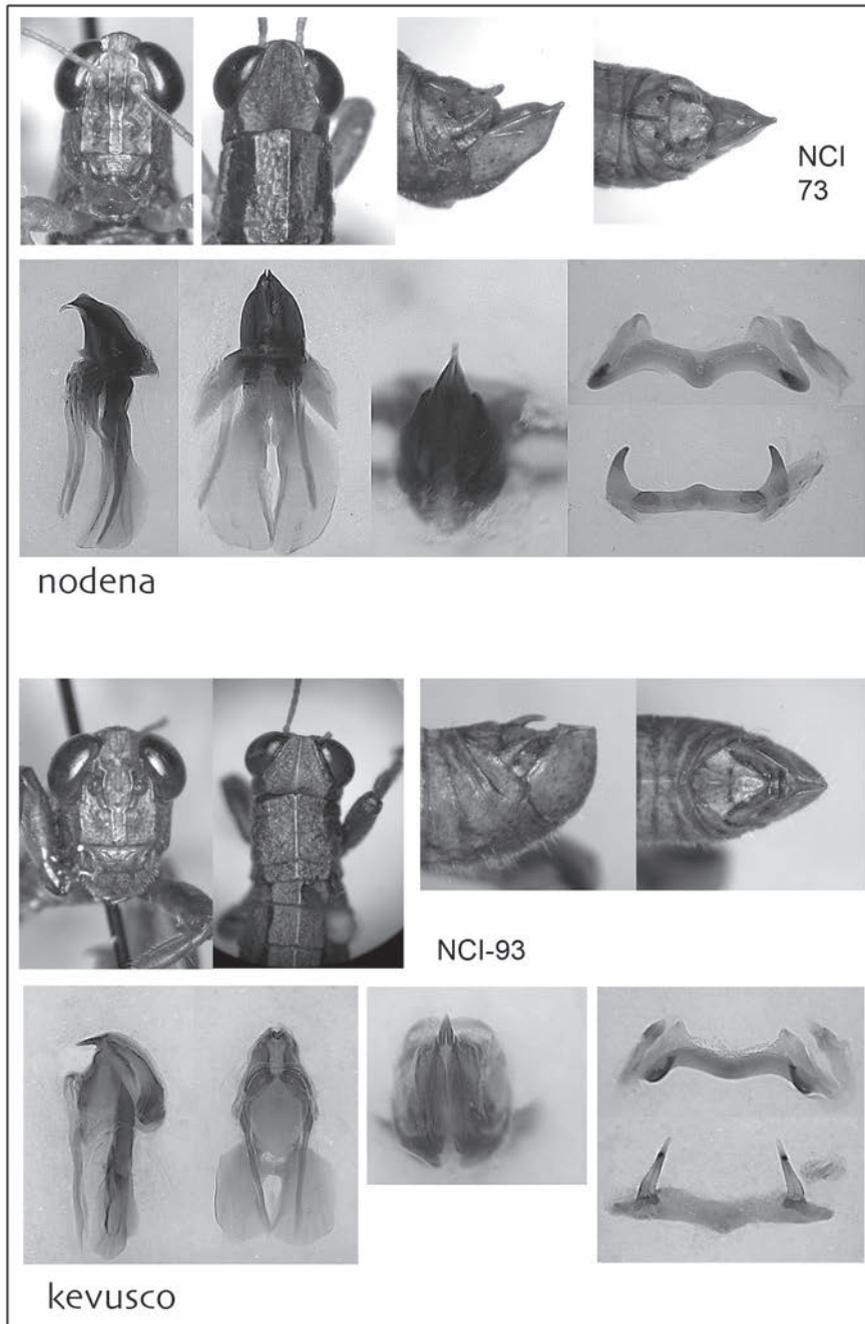


Figure 11. *Eremidium nodena* and *E. equuleus*. Head, pronotum, end of abdomen and male genitalia (lateral, dorsal, and ventral views of aedeagus and posterior and dorsal views of epiphallus).

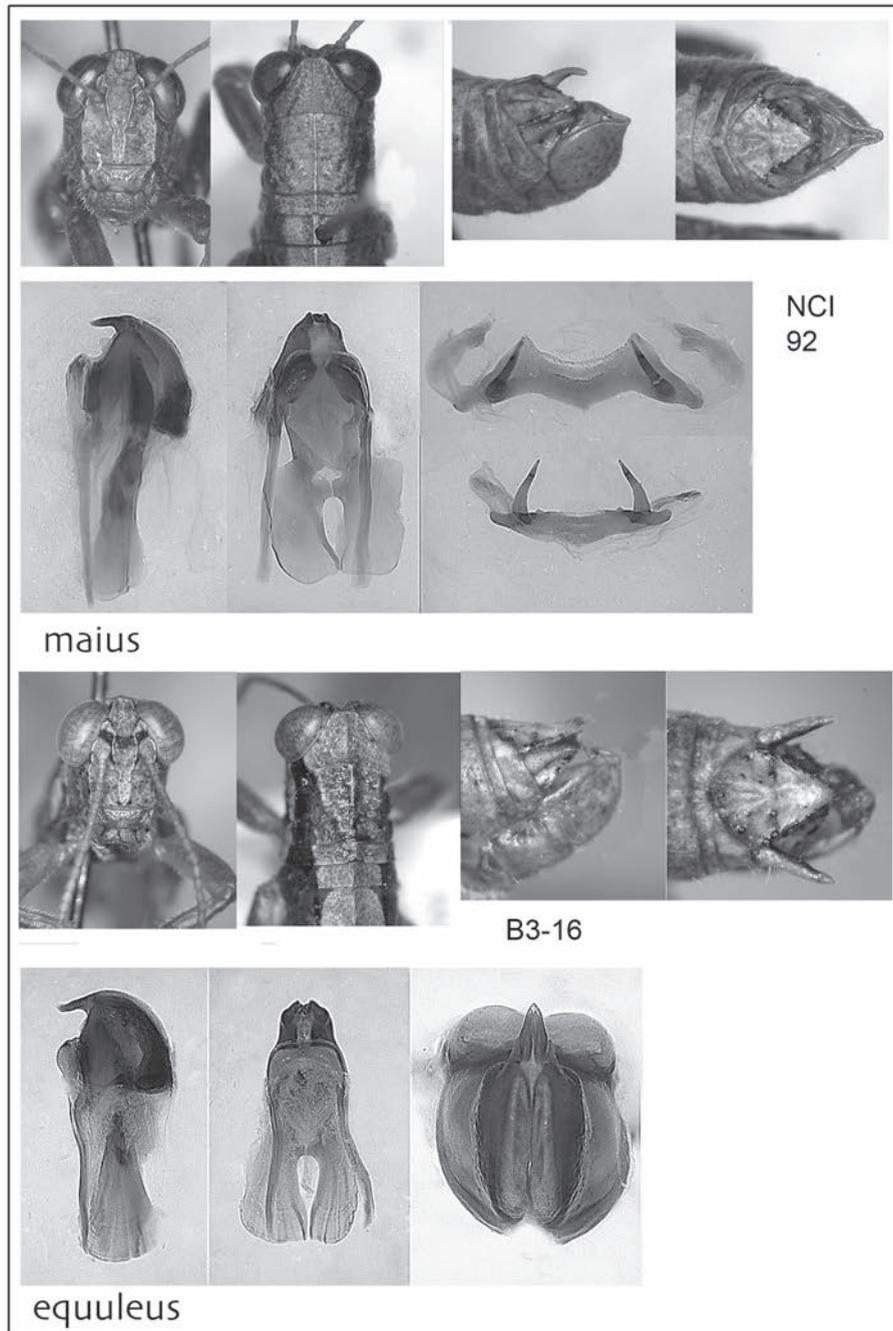


Figure 12. *Eremidium maius* and *E. kevasco*. Head, pronotum, end of abdomen and male genitalia (lateral, dorsal, and ventral views of aedeagus and posterior and dorsal views of epiphallus).

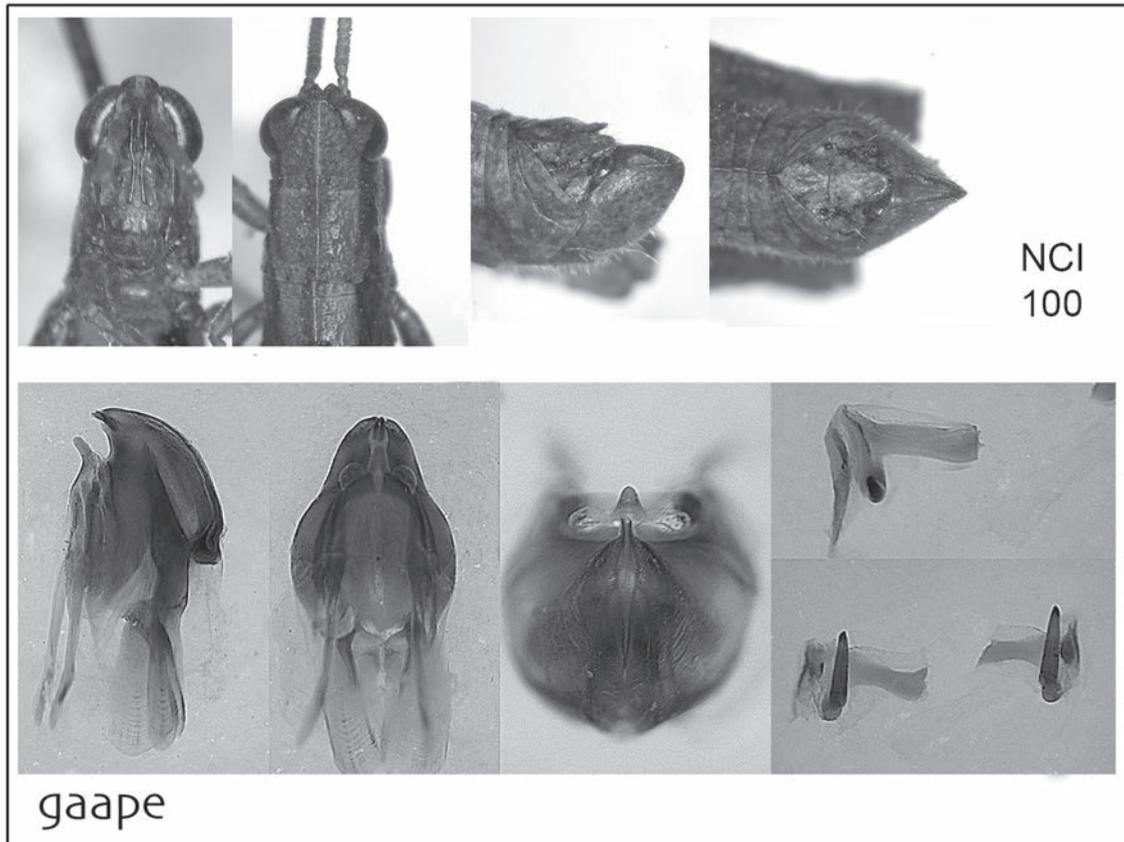


Figure 13. *Eremidium gaape*. Head, pronotum, end of abdomen and male genitalia (lateral, dorsal, and ventral views of aedeagus and posterior and dorsal views of epiphallus).

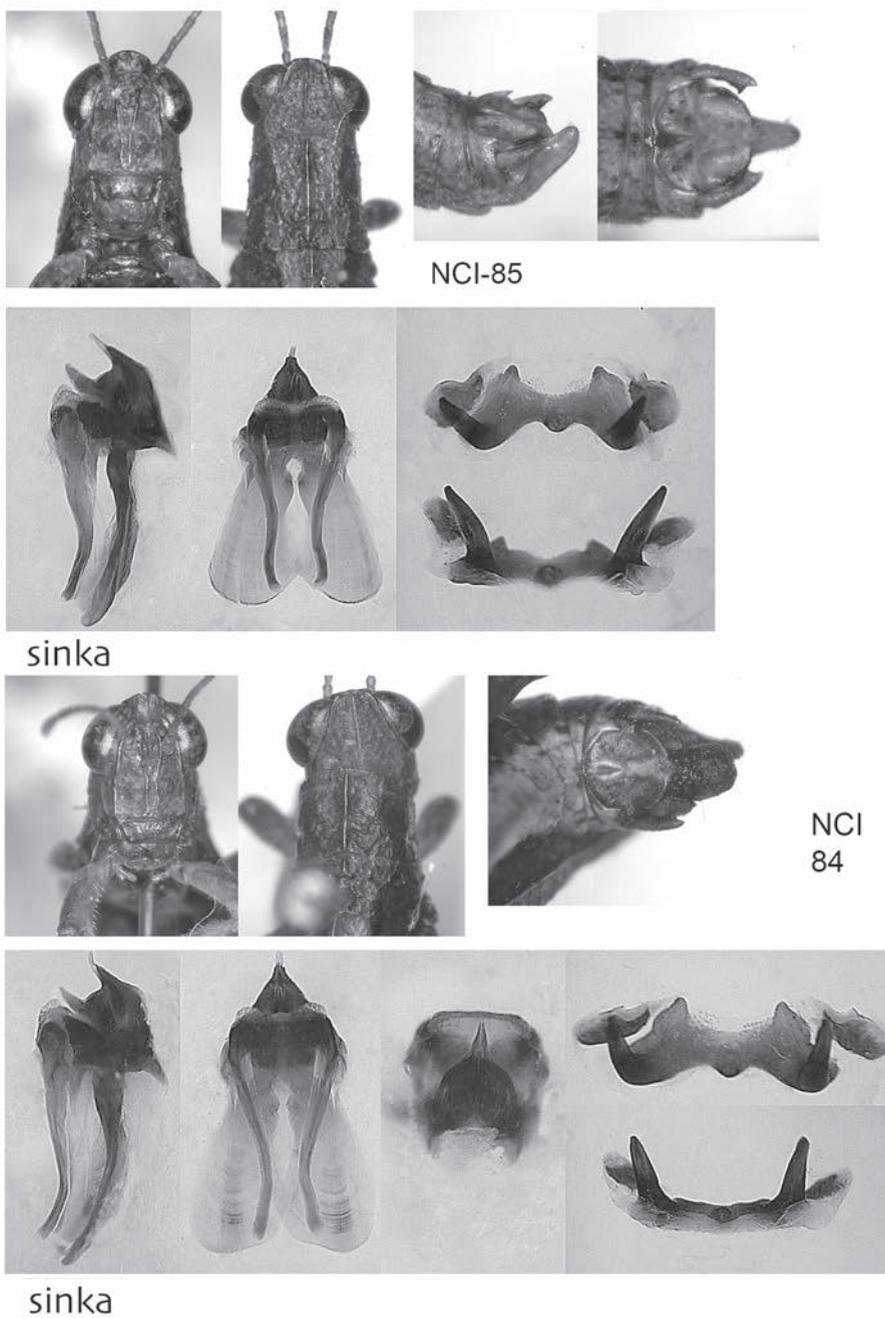


Figure 14. *Eremidium sinka*. Head, pronotum, end of abdomen and male genitalia (lateral, dorsal, and ventral views of aedeagus and posterior and dorsal views of epiphallus).

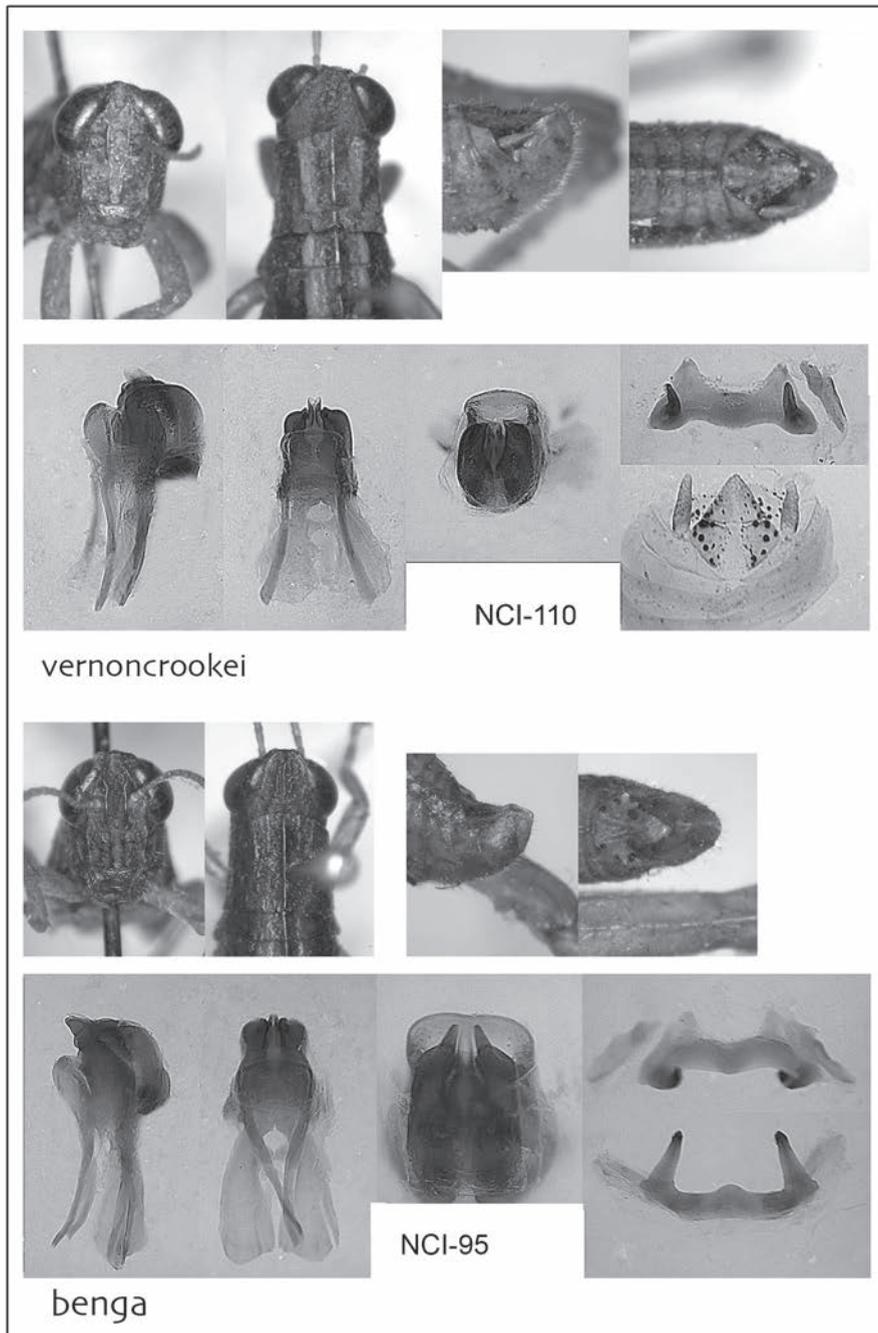


Figure 15. *Eremidium pevusco* and *E. benga*. Head, pronotum, end of abdomen and male genitalia (lateral, dorsal, and ventral views of aedeagus and posterior and dorsal views of epiphallus).

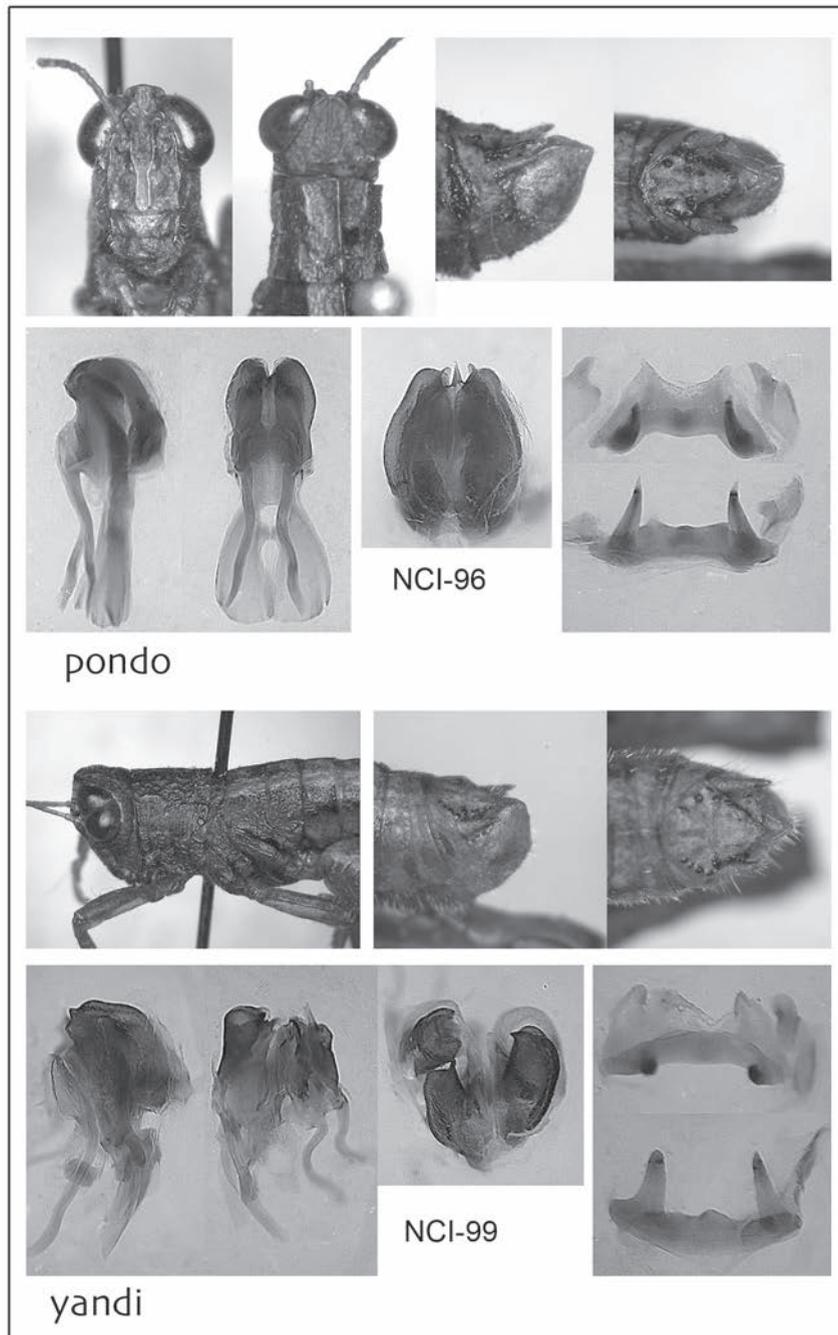


Figure 16. *Eremidium pondo* and *E. yandi*. Head, pronotum, end of abdomen and male genitalia (lateral, dorsal, and ventral views of aedeagus and posterior and dorsal views of epiphallus).

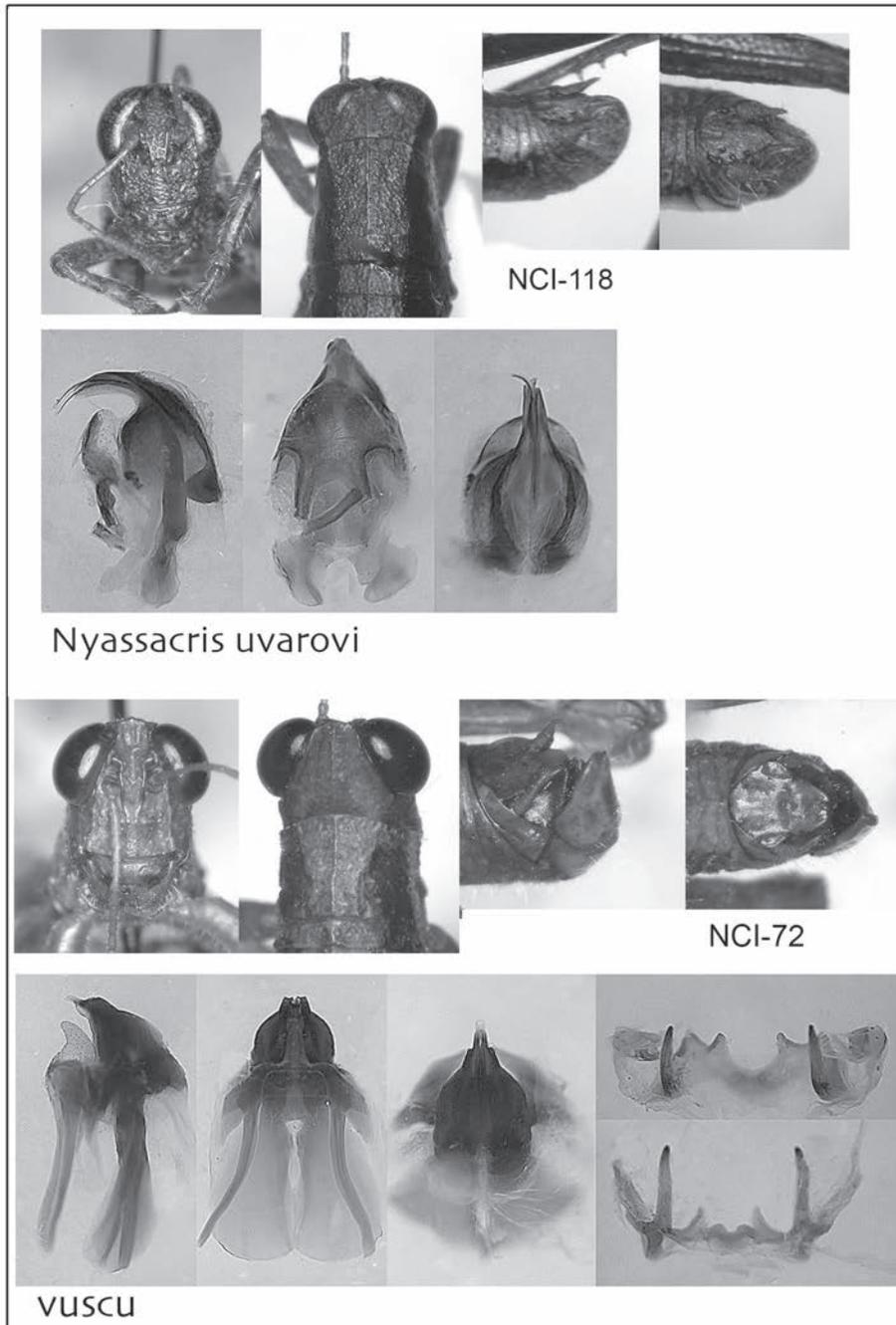


Figure 17. *Eremidium vuscu* and *Nyassacris uvarovi*. Head, pronotum, end of abdomen and male genitalia (lateral, dorsal, and ventral views of aedeagus and posterior and dorsal views of epiphallus).

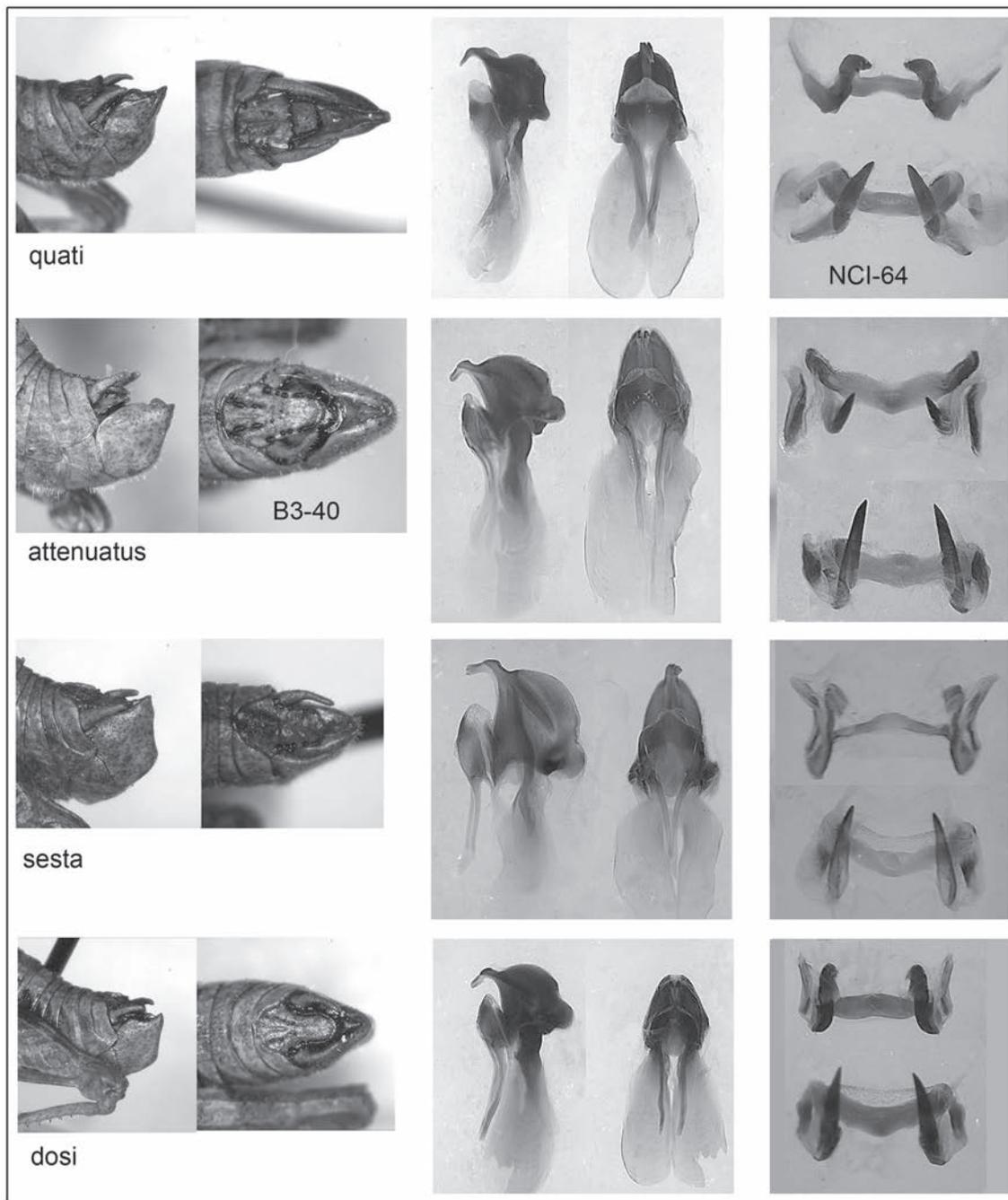


Figure 18. Comparison of end of abdomen and genitalia in *Eremidium quati*, *E. attenuatus*, *E. sesta* and *E. dosi*.

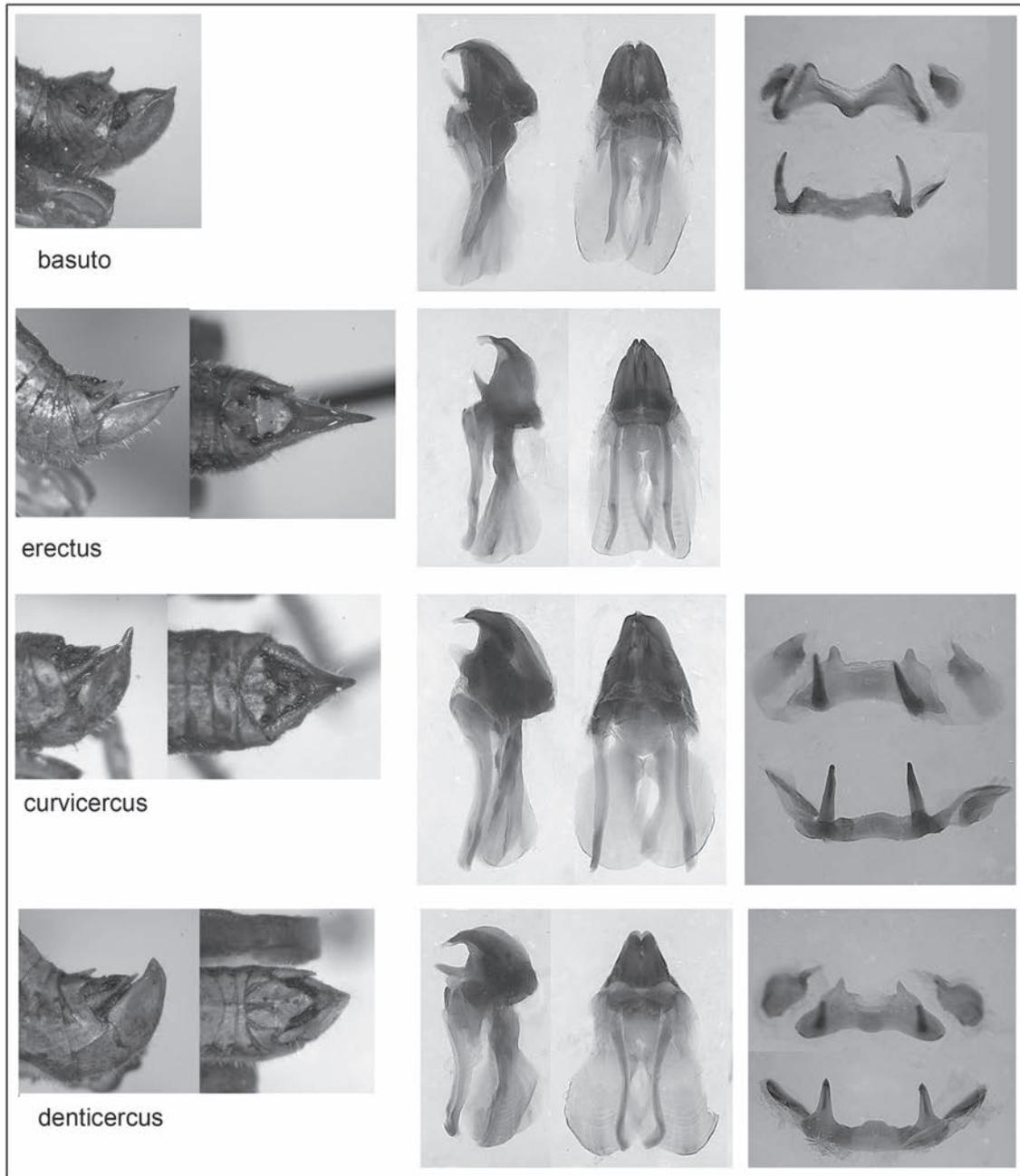


Figure 19. Comparison of end of abdomen and genitalia in *Eremidium basuto*, *E. erectus*, *E. curvicercus* and *E. denticercus*.

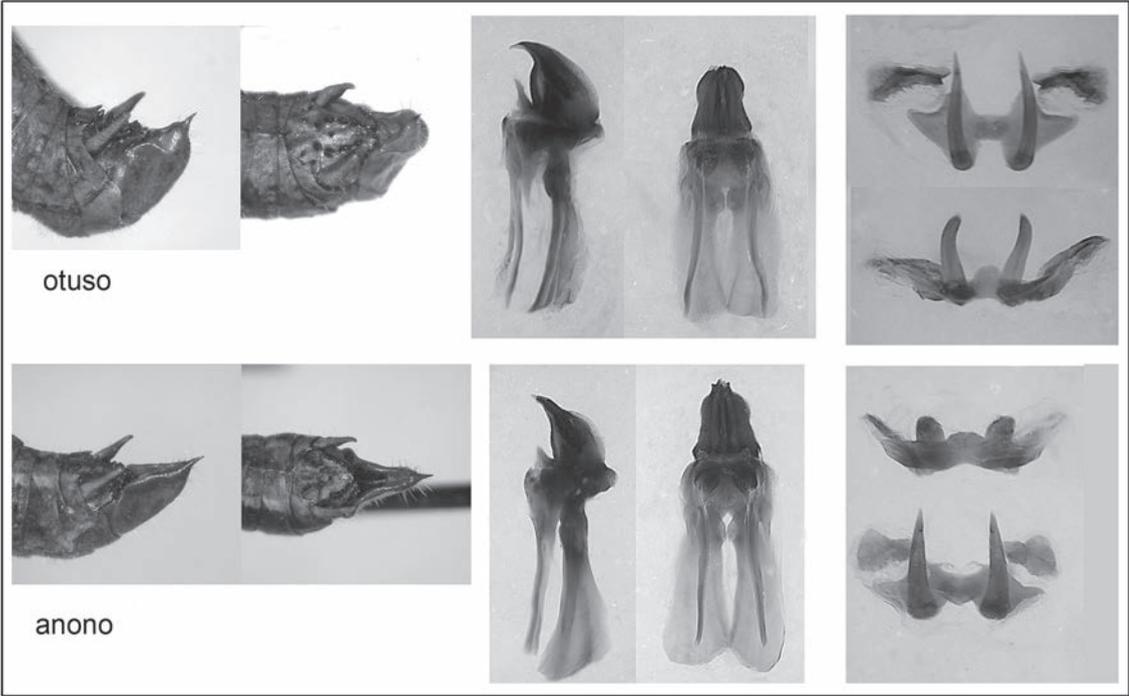


Figure 20. Comparison of end of abdomen and genitalia in *Eremidium otuso* and *E. anono*.

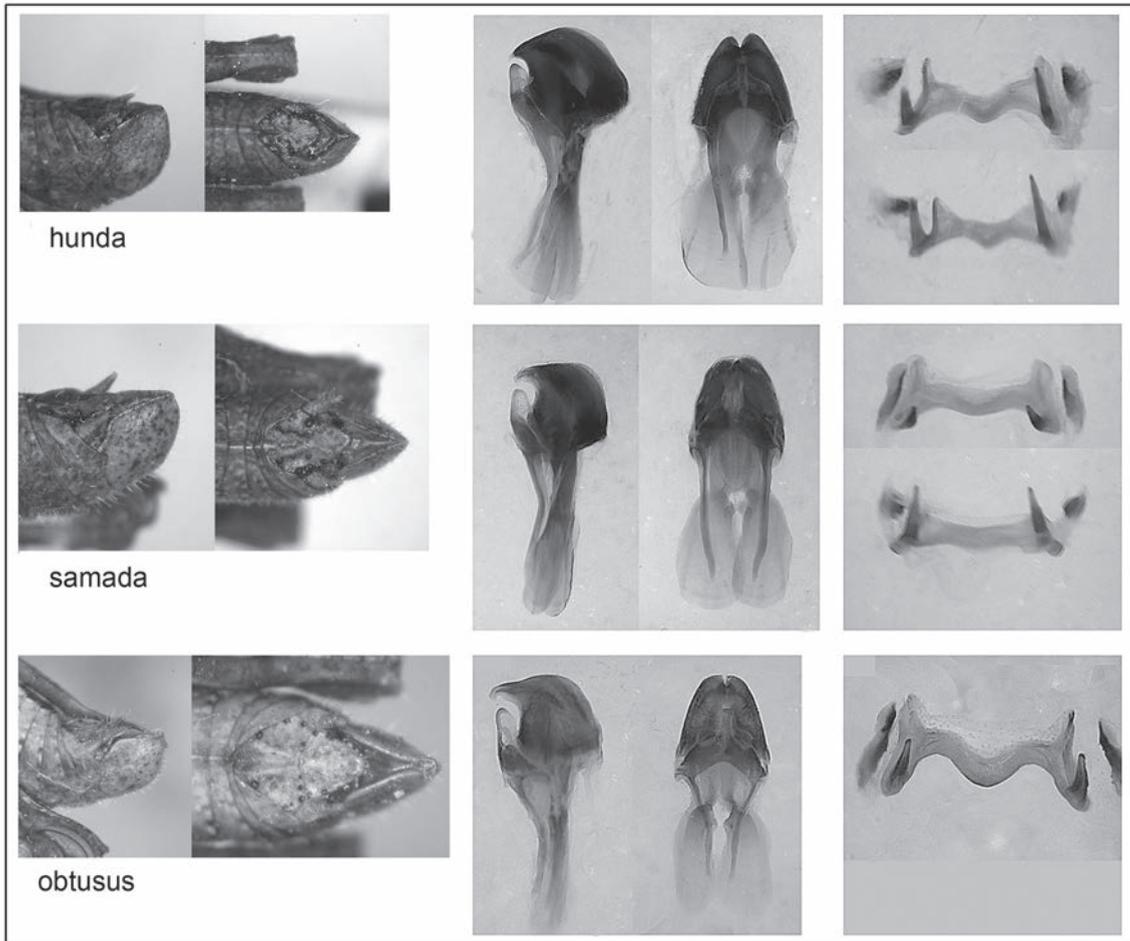


Figure 21. Comparison of end of abdomen and genitalia in *Eremidium hunda*, *E. samada* and *E. obtusus*.

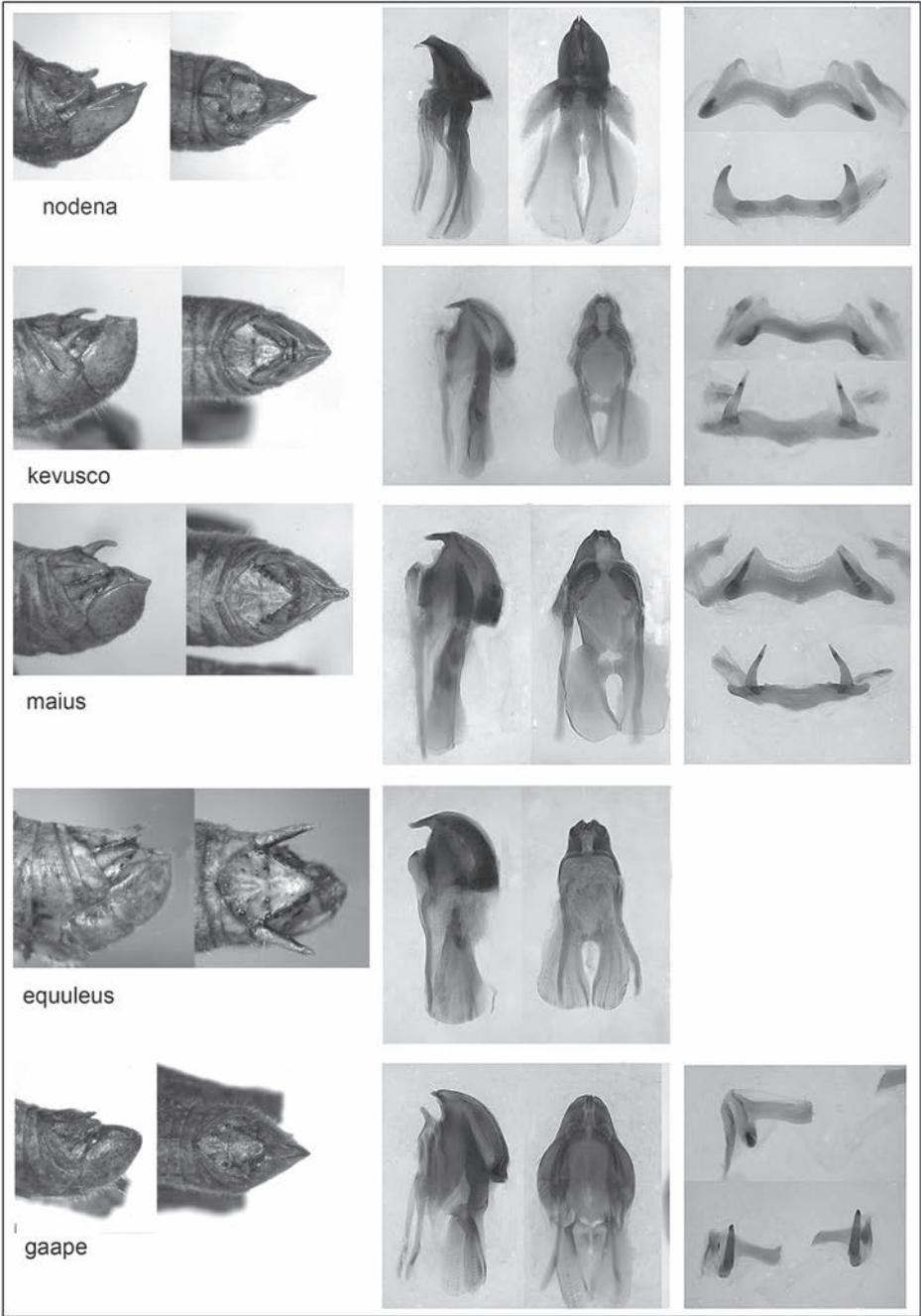


Figure 22. Comparison of end of abdomen and genitalia in *Eremidium nodena*, *E. kevusco*, *E. maius*, *E. equuleus* and *E. gaape*.

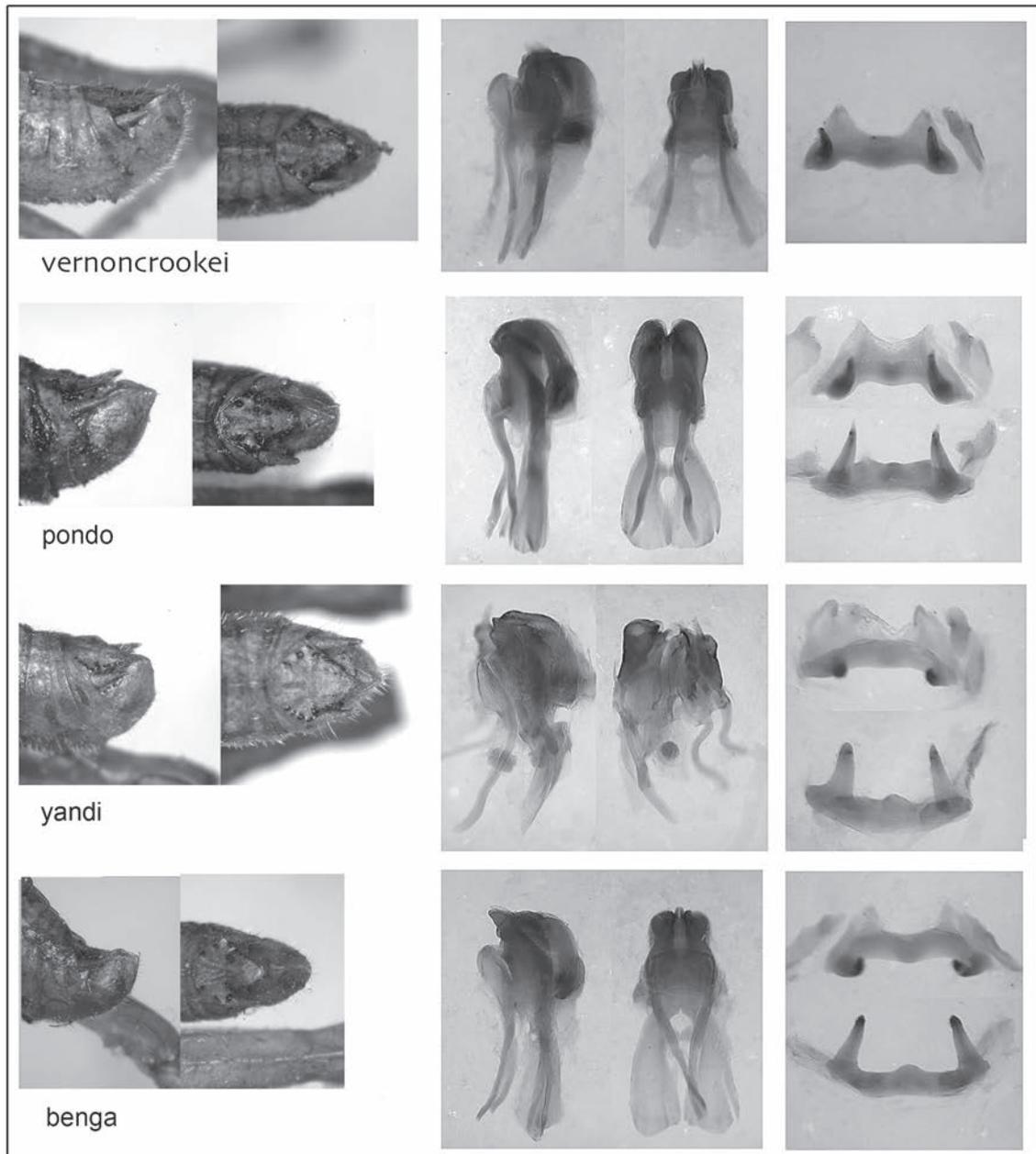


Figure 23. Comparison of end of abdomen and genitalia in *Eremidium vernoncrookesi*, *E. pondo*, *E. yandi* and *E. bengalensis*.

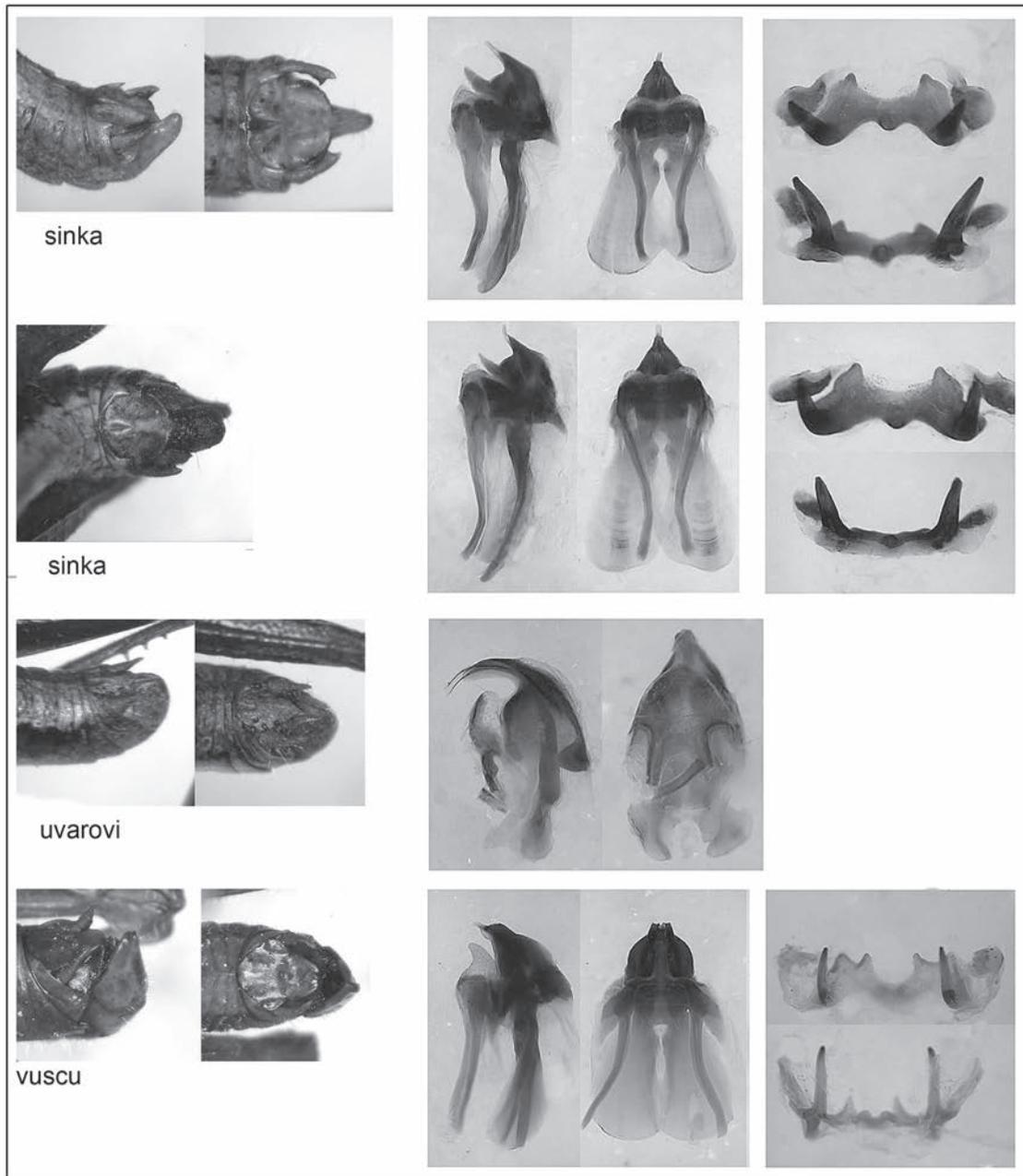


Figure 24. Comparison of end of abdomen and genitalia in *Eremidium sinka*, *E. vuscu* and *Nyassacris uvarovi*.

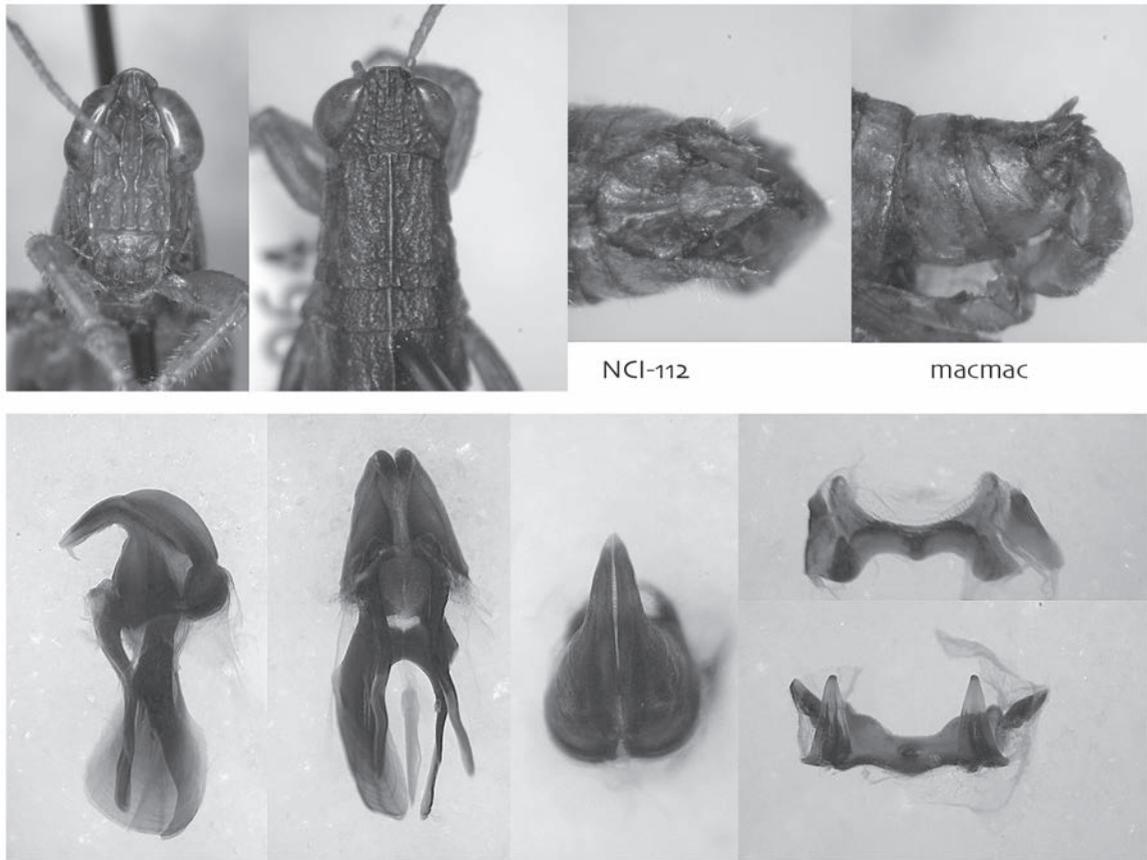


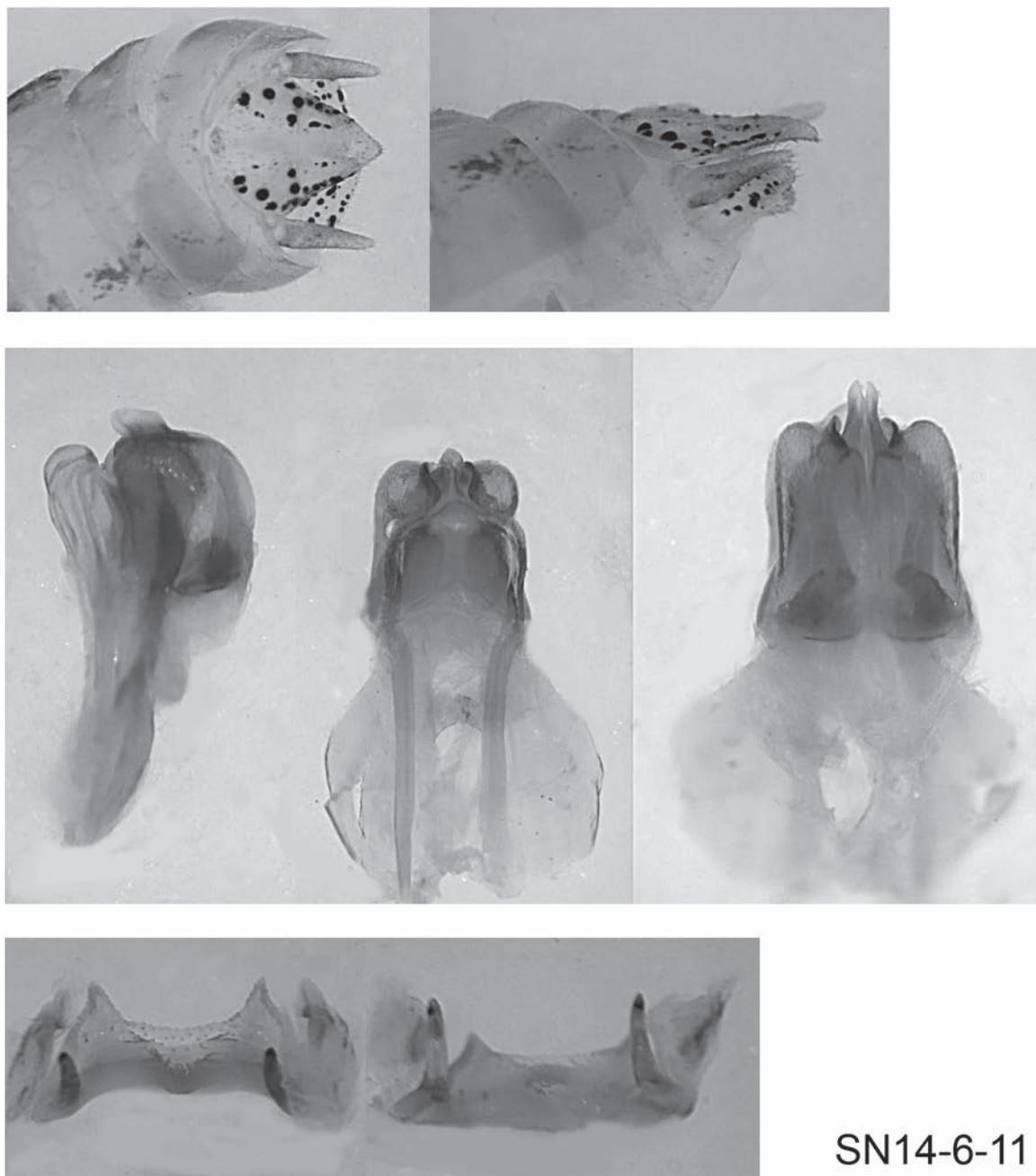
Figure 25. Comparison of end of abdomen and genitalia in *Eremidium macmac*.



Figure 26. Portraits of *Eremidium vernoncrookesi* n. sp.



Figure 27. Portraits of *Eremidium oribi* n. sp.



SN14-6-11

Figure 28. *Eremidium vernoncrookesi* n. sp. head, pronotum and male genitalia.



SN14-4-1

oribi

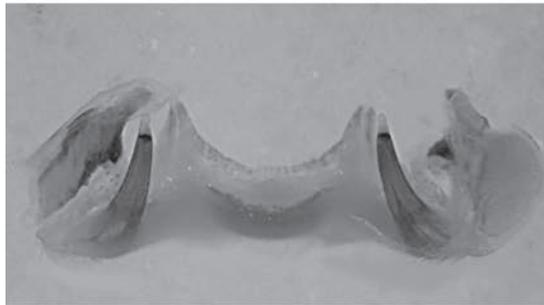
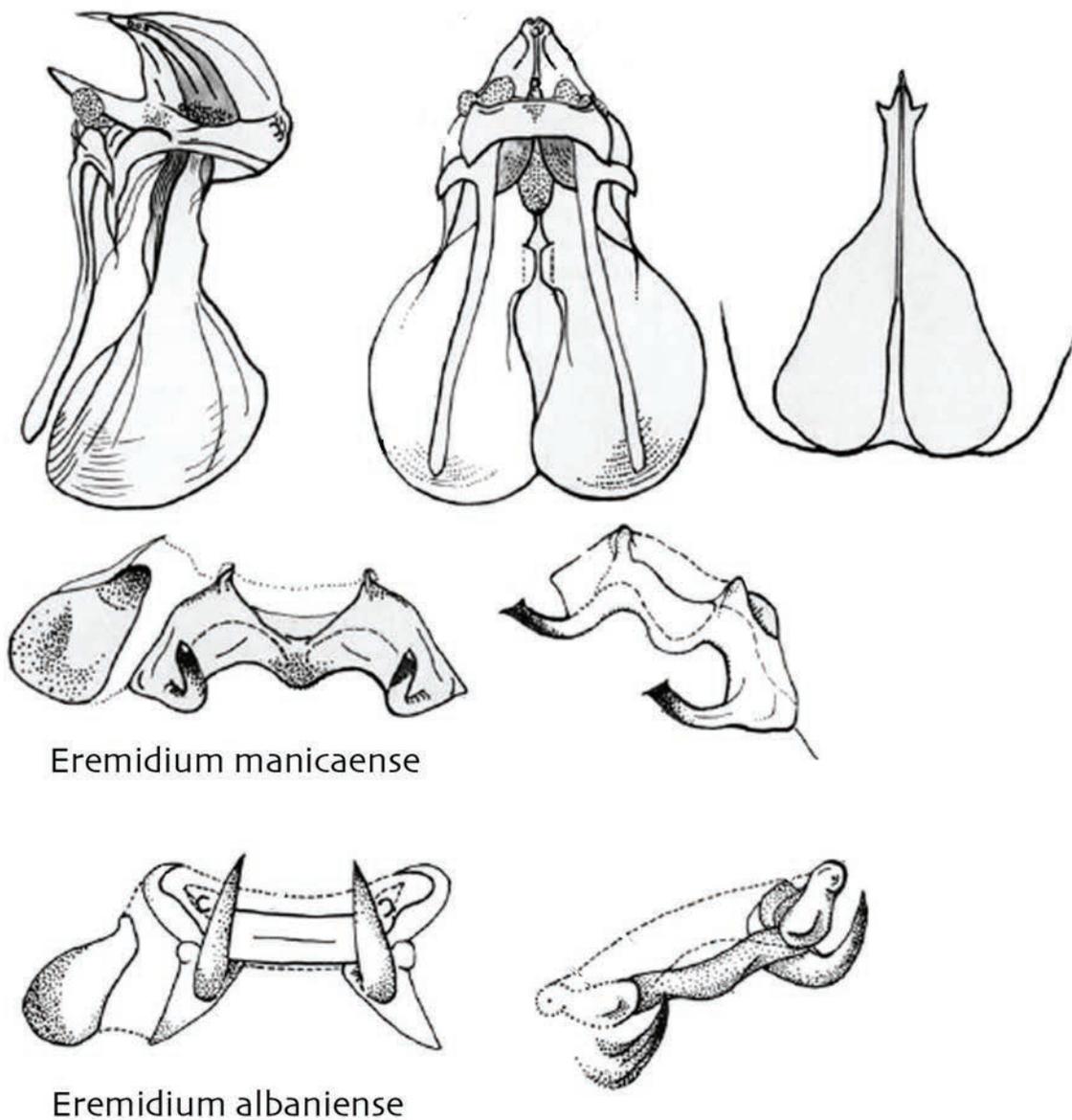


Figure 29. *Eremidium oribi* n. sp. head, pronotum and male genitalia.



Eremidium manicaense

Eremidium albanense

Figure 30. *Eremidium manicaense* Brown—head, pronotum, abdomen and genitalia. *Eremidium albanense* Brown—head, pronotum, abdomen and genitalia.



Figure 31. *Armstrongium viridipes* portraits.

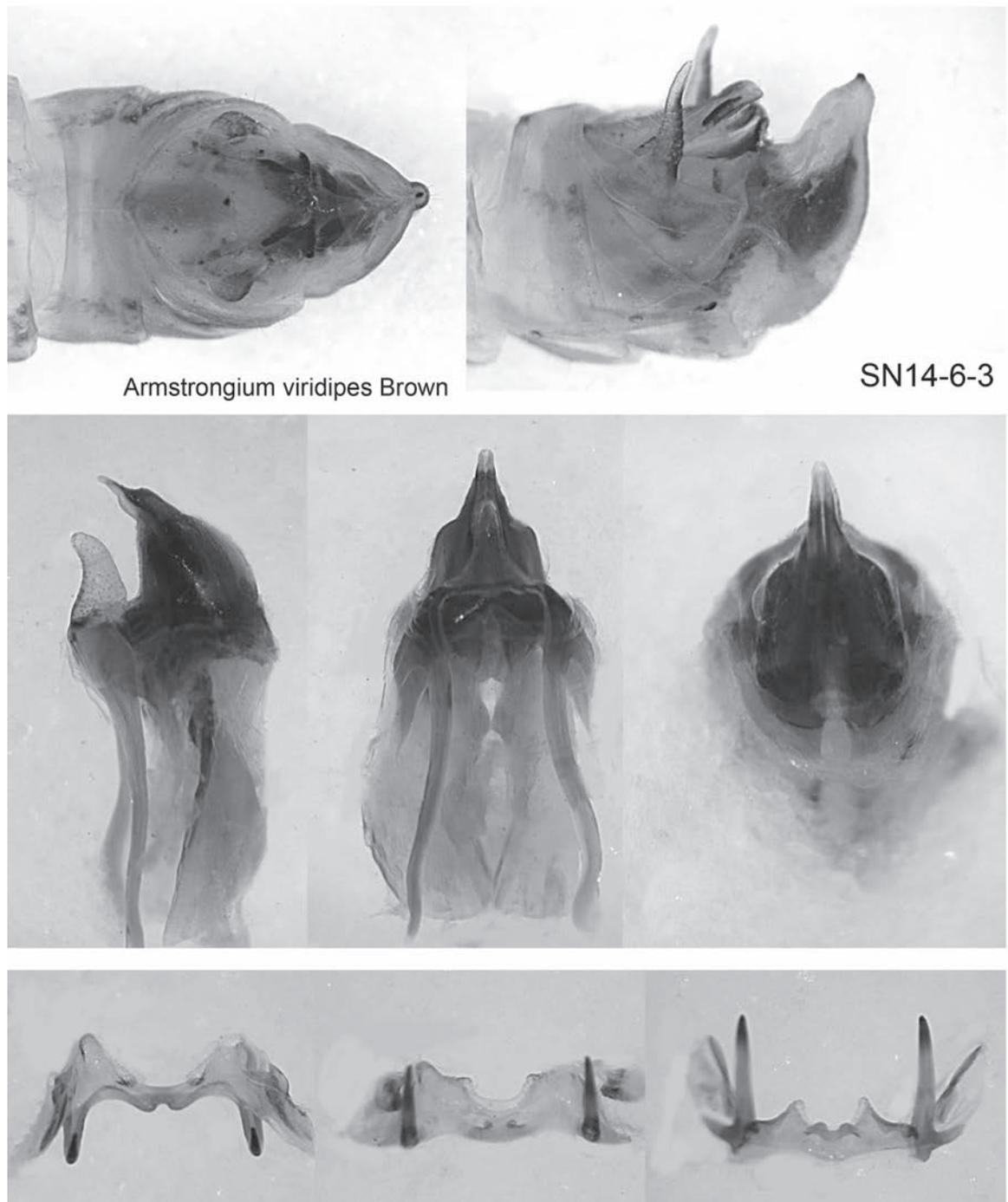


Figure 32. *Armstrongium viridipes* head, pronotum, abdomen and genitalia.

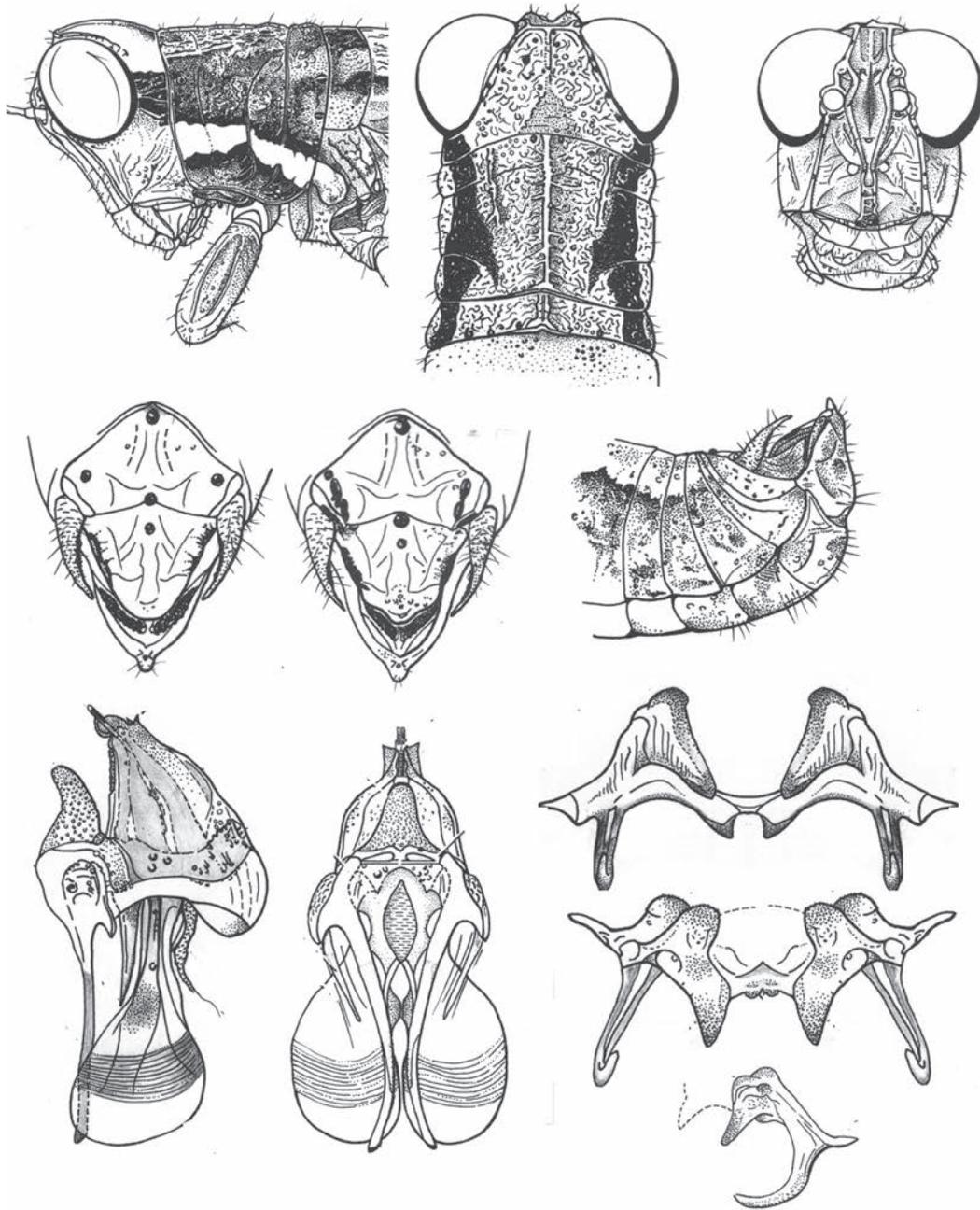


Figure 33. *Armstrongium pondoense* head, pronotum, and genitalia.

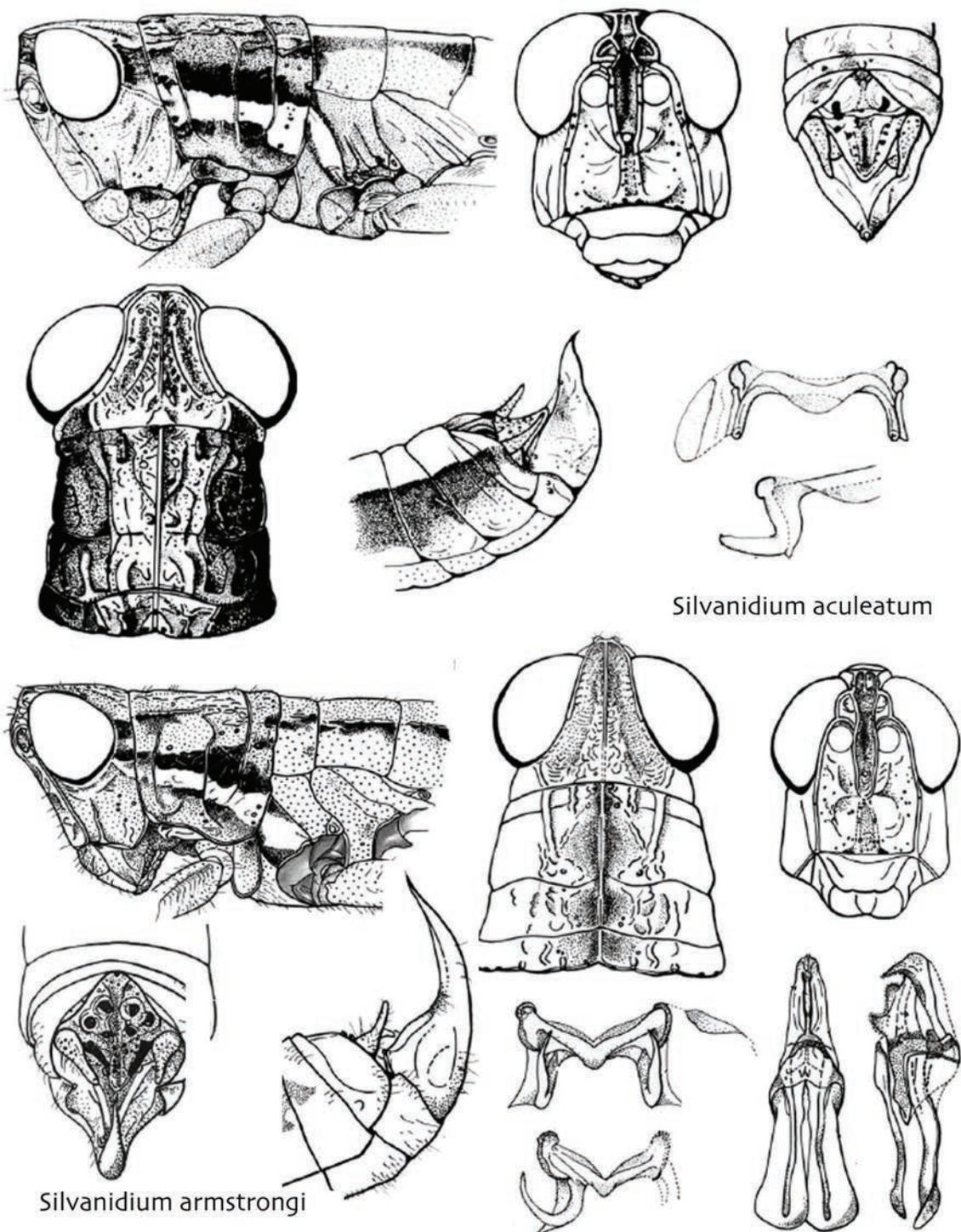


Figure 34. *Silvanidium armstrongi* and *aculeatum* head, pronotum, and genitalia.