# Taxonomic changes in American Orgeriinae (Homoptera: Dictyopharidae) 

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The following new taxa are described: Tlcranio gen. n. (ype species Tictda chamberlind V.D.), Teida subgen. Felcophore subgen. n. (type species T. dawimarsf V.D.), Orgartus subron. Opsigonus subgen. n. (ype species O. minor Bell), Tcida ratdiovi sp. n. (California), T. subapplamata ap. n. (Arizona), Orgertus glawcus ep. n. (California), Laxophora V.D. Is pleced in symonymy with Itcida Unl., and Jumodema Ball is reduced to subgenus of Thelde. Aridia nodosa Ball is transferted to $\boldsymbol{I}$ monidia.
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The generic classification of American Orgeriinae (all belonging to the tribe Orgeriini) ettablished by Ball \& Hartzell (1922) and Doering \& Darby (1943) is quite perfect, but needs some corrections and additions.
The type specimens of new species described in this paper are deposited at Zoological Institute RAS, St.Petersburg.

## Genus TYcranile gen. n.

Type apecies: Ticida chamberlini Vas Duzee, 1923.
Description. Structure of head similar to that of Ticida Uhler; coryphe shortened, trunsverse; upper part of metope turned up- and backwards, occupying the anterior part of the upper aurface of head. Apical carina of head dilated callus-hike by conjunction with intermediate carinae, as in Loxophora dammersi V. D. (Fizs 3, 4). Intermediate carinae of metope almost equidistant from median carina and adjacent lateral carinae. Pootocular calli not developed Rostrum long its apical segment extending entirely beyond abdominal apex. Pronotum with protruded forwards lerge disc, its lateral carinae reaching hind margin of pronotum. Paradiscal areas of pronotum strongly narrowed toward the disc. Hurneral area of pronotum with 3 sensory pits. Paranotal lobe without round polithed convexities (mammoids). Elytra with a net of identical prominent veins; subcostal ridge moderately developed. Legs linear, slender. Fore coxae without angulate projection. Hind tibise with 5-6 lateral spines, apex with $3+5$ spines. First and second hind tarsomere with 8 spines on each. Sublateral carinae of abdominal tergites almost absent. Medial sensory pit of medial group shifted aside of lant 3 pits.

Compartson. Main differences between Ticrania gen. n . and Jeida Uhler are as followe. In Ticrania, (1) large pronotal disc with lateral carinae (Fig. 1); (2) flat paranotal lobes without mammoids; (3) alyora with uniform net of veins. In Ticido, ( ( ) propotal disc short, without lateral carinae, not separated from paradiscal areas (Fig. 2); (2) paranotal lobes with mammoids; (3) elytra with prominent median and claval carinae.

Genus Ticida Uhler, 1891
$=$ Laxophora Van Duree, 1908, aya. a.
Examination of the holotype of Loxophora transversa Van Duzee, the type species of the genus Loxophora, shows that L. tramswersa and Icida cingulata are very similar or identical species and, consequently, Loxophora is a junior synonym of Ticida. Unfortunately, Van Duzee or his technicien introduced confusion in the type labels of Loxophora transwersa. The specimen, which, judging from the label "Chads Rch/Jt Jul. 22/ Wickham" (in the original description, "Ch. Ranch, Utah, July 22"), is the holotype of Loxophora transversa, is labelled as holotype of neida cingulata Uhler ("Holotype cingulata"), and the label "Loxophora transversa" is abseat. Uhier's type is from Califomia, not from Utah, and is not preserved in the California Academy of Sciences. I did not examine Uhler's type, but specimens of Thcida cingulata from various localities in Califormia and the type of Loxophora transversa from Utah show insignificant differences, which are hardly specific. Extensive material is needed to decide are T. cingulata and $T$. transwersa separate species or not.


Fign 1-5. 1, 2, pronoturn, dorsal view (1, Ticrania chamberlini V.D.; 2, Theide cingulate Uhl., ater bolotype of $T$. tronsversa V.D.); 3-5, 口pper part of heid, anterior viaw (3, Tcrania chambertint; 4, Telde dammers' V.D.; 5, I. cingulata (thl).

I consider that the character of foliate fore legs taken isolated is insufficient for diatinguishing separate genera. Strongly foliate fore legs are characteristic of the genus Timodema, but some species among Ticldo have moderstely foliate fore legs, e.g. T. dammersi V.D. and two new species deacribed here. In this connection, I propose to reduce the genus $\mathrm{Inmadema}_{\text {to }}$ nubgenus and to establish a new subgenus for Ticida dammersi. The subgenera of Incida are distinguished as follows.

1(2). Coujunction of intermediate curinae with median one developed as a large cillus (Fig. 4). Intermediate corinac equidistent from modian and adjacopt lateral carinae. Coryphe with a round polished swelling
. . . . . . . . . . . . . . Subgenas EPlcaphora subgen. in (type species: Loxophora dammersi V. D.)
2(1). Conjurction of intermediato and medien carrae nol dilated (Fig. 5). Intermediate carinse nearer to the modian than to lateral carinae. Corypha without amelling, flat.
3(4). Fore lope simple, linear (Fig. 6). Coryphe shorser than its width. Median carine of motope on black bund always white . . . . . . . . . . . . . Subgenus Tichin s. st.

4(3). Fore lege dilawed, foliate. Medien carina of metope almoer always bleck .............. Suberaus Timedema Ban, stat. n .

Tleda (Timodema) ratittovisp. $n$.
(Fig. 8)
Holorype. of, USA, Calfornia, San Diego Co., Laguna Mis., Cibbets Flat carmpground (Kitehen Creek Rd.), $32^{\circ} 78^{\prime} \mathrm{N}, 116^{\circ} 45^{\circ} \mathrm{W}, 4158 \mathrm{n}, 24$. VIL 2005 (Rakitov).

Paratypze 19, same data an in holotype.
Description. Coryphe almost as long as broad. Fore margin acute-angulately (almost rectangulasely) produced. Apical carina without calluslike dilatation around conjunction with intermediate carinac. Fore femora strongly dilated, in epioal and middle parts parallel-rided; midde femore gradually widened from base to apex. Fore tibise distinctly dilated in basal third, twice as broad as at apex; middle femora slightly, but distinctly dileted in basal thitd (Fig. 9). Number of gensory pits on abdominal tergite $V$ lesser than in neighbouring species.


Plas 6-9, fore and middle legs, flat ventrel view (f, fore leg: m, middie leg). 6, Theida cingulara Uhl., after holotype of T. Iransvarsa V. D.; 7. T. subagplanala ep. n.; 8, T. rakitovi ip. n.

Strongly pigmented. Caryphe black entirely or with light speckles. Merope with non-internupted black band sensory pits blackened. White band under the black band runs across proepimere and lower part of paranota. Ptonotum with black sensory pits, black brilliant marmmoids and humeral area out of mammoids. Scutellum yellowish white in fore half, derk brown in hind pert; sensory pits darkened. Elytra dark brown, with white bend in hind part; get of veins out of the band lighter than ground; hind margin of elytra dartened, also sutural line on the white band darkened and interrupting the band. Abdomen aearly entirely black, but fore margin of tergite $Y$ medially with a transverse segment-like yellowish white spot and sides of this tergite a little lightened. Anal tube in both seres and modian part of two preceding tergitem (VII and VIII) in female lightened. Pleurostemal part of mesothorax darkened, lower carins and upper corner of episterne white; epimere with three longitudinal white stripes. Metathorax and hind coxse light brown. Fore and middle coxme in laterobesal part
darkened; subbasal ridge-like projection lightened. Fore fernora light brown, with brood dark bands in middle and apical parts. Middle femora with apical band ooly. Fore and middle tibise dark brown, with light band in third quarter. Hind ferrore light brown, diffusely darkened at apex. Hind tibise light brown, with blackened base, darikened ventral side and lateral and apical spines. Abdomen ventrelly irregularly coloured, light brown, latenl parta with daris speckles around bases of sensory hairs. Tursi darkened, but basal segment of hind tarsus light with black epical spines.
Length of $3.5 \mathrm{~mm}, 3.9 \mathrm{~mm}$
Comparison. The new species differs from $T$. miracula Ball, the type species of the subgenus Timodema, in not so strongly dilated fore and middle lege.

## Tlicida (Thmedoma) sabapplanata sp. n.

(Fig. 7)
Holotype. of, USA, Arteona, Mohuve Co, Hualapai Mt, Roud (s of Kingman), $35^{\circ} 17^{\circ} \mathrm{N}, 113^{\circ 9} 97^{\prime} \mathrm{W}, 4224 \mathrm{~A}$, Agerve sechotili, 18.VIII.2005 (Rakitov).

Paratype. USA, Arizona: 2 d. 9 9, same data as in bolotype; 1 o, Mohave Co., Hwy 93 S of Wilcerp, $34^{\circ} 49 \mathrm{~N}, 113^{\circ} 35^{\prime} \mathrm{W}, 3157 \mathrm{ft}$, mitaro desert with ocotil10, Noilna bigelovil, 18.ViL. 2005 (Emadianov).
Description. Similar to T. rabltovi ep. n., but differs in less dilated fore and middle legs and more developed light pattern. Fore femora comparatively narrow (about $3 / 4$ as broad as in T. rakthovi), parallel-sided, about 3 times as broad as tibiac; middle femora at apex as broad as fore ones, but gradually narrowed to basc. Fore and middle tibiae almost not dilated, a little broader at apex than in basal half (Fig. 7).

Colour and ornamentation similar to those of T. rakitovi, but slightly different. Coryphe darkened in hind part only. Median carina of matope sometimes light on black band. Scutellum yellowish white or greenish white, narrowly darkened at apex. White band on elytra broader interrupted along comissural suture. Abdominal tergite $V$ entirely lightened, but with darkened sensory pits; on other tergites, interspaces between sencory pits and ringlets eround them light. Coloration of legs as in $T$. rakitovi, but light bands narrower and dark parts consequently broader.
Length of $3.5-3.8 \mathrm{~mm}, \$ 4.1 \mathrm{~mm}$.
Genus Orgertus Stal, 1859
Two groups of species are distinguished in the genus (Doering \& Darby, 1943): O. rhyparus Sed] group and O. minor Ball group. I consider these groupa as subgenera. The subgenera are geographically and ecologically distinct. Orgerius s. atr. is Califormian, inhabiting chapparal and woody glades. Opsigonus subgen. n. is deserticolous, living or Atriplex canescens.

1(2). Medial abdominal group of sensory pits numbers 3 +1 piL Upper pert of lateral carinate of metope weak, but distinct. Hind tibise with $7-9$ lateral spines connected in besel half by foliate ridge. Subganus Orgerine s. Bt
2(1). Medial abdoninal group of sensory pix numbers 3 pits. Upper part of laterll carinae of metope indistinct. Hind tibise with $5-6$ lateral spinas without connecting ridge . . . . . Subgenus Opolgonas subgen. n. (type species: Orgerims minor Ball)

## Orgerfas (s. str.) ginucus sp. n.

Holotype. of, USA, Calfomia, Lor Angeles Co., I-5 Hwy., exil to Pyramid Lk (2-3 mi S of jct. Hwy. 138), $34^{\circ} 71^{\circ} \mathrm{N}, 118^{\circ} 80 \mathrm{~W}, 2869 \mathrm{ft}$, ribbitbruth (Chryspothamnus), 25.VIII 2005 (Emeljenov).

Paratype. $1 \sigma^{\circ}$, same data as in holotype.
Description. General colour bluish green. Upper surface of body with dark speckies denser on coryphe and scutellum; on pronotum, speckles present only near median carina. Coryphe pen-
tagonal, with throe weakly marked darker transverse bends: subapical, middle and hind. Metope between eyes with three confluent indistinct obacure bands, under eyes with a more distinct light band, and at level of antennae again a little darkened. Disc of pronotum with a pair of derk spots. Elytra with dark spots along hind margin. Lower surface of body and legs more densely or more sparsely covered with dark speckles, as in other species of the subgenus Orgerius s. str. Paranotal lobe in middle part with large, diffuse darker spot covered by speckles, under this part with light portion devoid of speckles. Hind margins of hemelytra form a concave obtuse angle.

Length of $5.2-5.5 \mathrm{~mm}$.
Comparison. The new species is similar in habitus to O. bucculentus D. \& D., but distinctly differs in the peatagonal coryphe (in O. bucculentus, coryphe nearly parabolic). Other differences: ( 1 ) hind margins of hemelytra form a concave obtuse angle (ve, a straight line in O. bucculentus); (2) general colour bluish green (vs. brown in O. bucculentus and other species of the subgenus Orgerius s. str.).

Note. The new species is collected on rabbitbrush together with Deserta raptoria Ball, which in vivo is also bluigh green, concolorous with the host plant.

## Genus Timomidis Ball \& Hartzell, 1922

Timonidia nodosa (Ball), comb. $n$.

- Arldia nodosa Bell.

The apical cell in the genus Aridia is well defined, pentagonal, surrounded by strong carizae, in contrast to the apical cell in Imonidia, which is swollen, with unshaply limited oval depression (properly cell).

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