

**DESCRIPTIONS**

OF

NEW SPECIES OF NORTH AMERICAN

**INSECTS,**

FOUND IN LOUISIANA BY JOSEPH BARABINO.

---

BY

**THOMAS SAY.**

---

MARCH 1831.

---

INDIANA.

Printed at the School Press, New-Harmony.

## COLEOPTERA.

CHELENUS, Bonelli.

3. *C. circumcinctus*, Green tinged with violaceous; edges rufous.

Inhab. Louisiana.

*Body* green, more or less tinged with violaceous and brassy, punctured: *head* minutely and confluent punctured; in the middle tinged with bronze; lateral edges dark purplish: *antennæ* reddish brown, three basal joints pale yellow with rufous incisures: *labrum* and *mandibles* honey-yellow, the latter black at tip: *palpi* yellow; terminal joints honey yellow: *thorax* deeply punctured, sparse near the anterior angles, and almost wanting each side of the middle; dorsal line acute almost obsolete; basal lines widely indented; lateral edge regularly arquated, dull rufous; basal edge rectilinear in the middle and a little oblique each side, making the angles rather more than rectangular; green a little tinged with brassy: *scutel* dark purplish: *elytra* with profound, obsoletely punctured striae; interstitial spaces flattened, punctured, sericeous; rather dull green with a slight violaceous reflection;—exterior and apical edge dull rufous: *beneath* black: *feet* yellow, joints a little rufous: *venter* on the margin yellowish.

Length over two-fifths of an inch.

---

## ODES. Bonelli.

*O? parallelus*, black; thoracic angles rufous; feet piceous.

Inhab. Louisiana.

*Body* black, very slightly tinged with piceous: *head* with but a slightly impressed point between the antennæ: *antennæ* reddish brown, three basal joints honey yellow: *pulpi* honey yellow: *mandibles* piceous: *thorax* narrowed before, smooth, dorsal line distinct, not extended on the margins; basal lines distinct, oblique; region of the posterior angles a little, but widely, depressed, rufous or sanguineous, and by transmitted light it appears reticulated; impunctured; posterior angles rounded, but not obtusely so; greatest width a little behind the middle: *elytra* with the striae continued parallel to the tip, well impressed, minutely punctured; interstitial spaces depressed, third with a single slight puncture on its posterior fifth from the base: *beneath* black: posterior angles of the *pectus*, *epipleura* and *feet* piceous: *anterior tarsi* with four not widely dilated subquadrate joints, the fourth joint being as large as the third and all beneath with dense fastigate hairs; *intermediate tarsi* also somewhat dilated.

Length less than two-fifths of an inch.

The elytra are hardly perceptibly sinuous near the tip.

The specimen is a doubtful congener of the *O. helopoides*, Fabr. than which the body is somewhat more elongated, the thorax is more gradually narrowed before. It has at first sight more the appearance of the *Harpalus terminatus* or *Calathus gregarious*, Say. The intermediate tarsi are somewhat dilated, the anterior tarsi are not widely dilated

and the terminal joint is as large as the preceding one. I place it in this genus provisionally, more specimens may shew this arrangement to be incorrect. The parallelism of the striae of the elytra to their termination is a remarkable character, even more obvious than in the *helopoides*.

DYTISCUS.

*D. bimarginatus*, Black; head and thorax rufous; elytra with a yellow vitta on the lateral submargin.

Inhab. Louisiana.

*Body* oval, blackish: *head* honey-yellow, posteriorly black; *palpi* and *antennae* yellowish: *thorax* honey yellow; posterior margin black, which is more dilated on the middle half: *elytra* with three series of distant slight punctures; on the lateral submargin a yellow vitta, which passes a short distance on the humeral base, and posteriorly diverges a little from the margin, attenuates, and does not reach the tip; margin and epipleura dull rufous, not reaching the tip; *beneath* piecous black: *pectus* and *anterior feet* yellowish; terminal joints of the tarsi piecous: *posterior pairs of feet* piecous; intermediate thighs dull yellow: *venter* each side with obsolete piecous spots.

Length less than half an inch.

NOTERUS, Latr.

*N. bicolor*, Honey-yellow; elytra black, punctured.

Inhab. Louisiana.

*Head* and *thorax* honey yellow: *eyes* black: *palpi* not deeply emarginate: *elytra* black, punctured; at tip obs-

letely piceous, very obliquely and slightly truncate ; acute :  
beneath honey yellow, or piceous.

Length one-tenth of an inch.

CUPES, Fabr.

*C. cinerea*, Brownish-cinereous ; clytra with fuscous spots and undulations.

Inhabits Indiana, Ohio and Louisiana.

*Body* pale brownish-cinereous : *head* on each side above the eyes with a series of three tubercles, of which the posterior one is convex, the middle one is most prominent and acute, and the anterior one is at the superior base of the antennæ : *eyes* prominent, black, polished ; *antennæ* nearly as long as the body, robust : *thorax* with a carinate line on the middle, widely impressed each side, and with four indentations on the anterior margin ; anterior angles emarginate : *clytra* with elevated lines and intervening series of large regular punctures, several abbreviated dark reddish brown lines and spots which form about three undulated bands, of which one is near the base, one on the middle and one near the tip : *venter* paler, somewhat testaceous.

Length over seven-twentieths of an inch

This is the second species, of this rare genus, that has been yet discovered ; I obtained numerous specimens, in the vicinity of New-Harmony, Indiana, and one near Springfield, Ohio ; and the specimen from Mr. Barabino proves that it inhabits a considerable portion of the Union. The species is widely different from the *capitata*, which I have not yet found in this region.

HYDROPHILUS, Fabr.

II. *castus*, Oblong-oval, black; palpi rufous; thorax with an oblique line each side before.

Inhab. Louisiana.

*Body* black polished: *head* with a dilated hardly impressed oblique line each side before, in which are scattered punctures with short hairs; another narrower impressed line nearer the eye: *antennæ*, first joint of the club with an acute, ciliated process; second joint triangular, small, the interior angle prominent, acute; terminal joint subovate, rounded at tip: *palpi* rufous, last joint hardly as long as the preceding one: *labrum* slightly and very widely emarginate, the anterior edge piceous, and about two small punctures on the middle: *thorax* with a rather slender arched line each side before, and laterally with a few scattered slightly impressed punctures: *scutel* rather large: *elytra* with four striæ of impressed punctures and an approximate marginal one: *feet*, excepting the base of the thighs piceous.

Length nearly three fifths of an inch.

The whole surface is covered with very minute, crowded punctures, not at all visible without a pretty good lens.

TROX, Fabr.

1. *T. alternatus*, Elytra with cinereous, elevated lines, interrupted by black spots.

Inhab. U. S.

---

*Body* black, or black slightly tinged with brown: *head* bituberculate: *thorax* with obtuse, elevated, interrupted lines, irregularly punctured; posterior angles obtusely dentate: *scutcl*, posterior margin cinereous: *elytra* striate with dilated punctures; alternate interstitial lines more elevated, cinereous, interrupted by black spots.

Length over half an inch.

This species is readily known by the cinereous and black alternation of the more elevated interstitial spaces. A variety occurs of which the elytral punctures are much less dilated, and the thorax is less deeply sculptured. I have found the species in Pennsylvania; Nuttall obtained it in Arkansas and Mr. Barabino sent me an individual taken near New Orleans.

A label attached to a specimen in my cabinet, states that it cannot be the *vinatus*, Oliv., with which I am now unacquainted.

#### TENEBRIO, L. Latr.

*T. rufinusus*. Suboval, black; head before, antennae and feet ferruginous.

Inhab. Louisiana.

*Body* oval a little oblong; densely punctured: *head* on the anterior part obscure rufous: *antennae* obscure ferruginous, joints transverse, subtriangular or conic: *palpi* and *mentum* ferruginous: *thorax* regularly punctured; basal edge undulated; basal angles rectangular: *scutcl* densely punctured: *elytra* with regular series of punctures; interstitial spaces slightly convex, particularly the lateral ones,

and with three or four irregular series of small punctures :  
*beneath* ferruginous, punctured.

Length over one-fifth of an inch.

CEDEMERA, Oliv.

*C. apicalis*, Pale reddish-brown, elytra black at tip  
and with four elevated lines.

Inhab. U. S.

*Body* rufo-testaceous, densely punctured: *eyes* obviously  
emarginate: *mandibles* black at tip: *thorax* dilated each  
side before the middle, narrower behind: *elytra* with four  
narrow, slightly elevated lines, on each side of which is a  
series of more obvious punctures, third line obsolete before  
the middle; tip black: *postpectus*, *abdomen* and *feet* black,  
a little sericeous: wings blackish.

Length about half an inch.

I have found it in Pennsylvania and other parts of the  
Union. the same as this from Mr. Barabino.

ACANTHOCINUS, Meg.

*A. quadrigibbus*, Antennæ annulate; thorax four tu-  
bercleled; elytra with a cinereous spot on each.

Inhab. Louisiana.

*Body* dark brownish, when closely examined, varied  
with ferruginous and cinereous, short, prostrate hairs:  
*antennæ* hardly longer than the body, blackish, the joints,  
excepting the basal ones, reddish cinereous at their bases;  
basal joint clavate: *head* before remotely punctured; be-



hind the eyes small numerous punctures: *labrum* dull honey-yellow: *thorax* with distant punctures; four tubercles nearly in a transverse line, and a longitudinal elevated line: *elytra* quadrigibbous at base; inner gibbosity extended into a longitudinal elevated line, gradually declining and terminating before the tip; numerous, distant, profound punctures; a dilated, undulated, cinereous spot before the middle; a sutural series of alternate, quadrate, small brown and cinereous spots, nearly opposite; tip emarginate: *thighs* clavate.

Length less than three-fifths of an inch.

ALTICA, Geoff.

1. *A. mellicollis*, Head black; thorax yellowish; elytra blue.

Inhab. Louisiana.

*Head* blue-black, with rather large punctures each side, between the antennæ convex, dark piccous; *antennæ* black brown, three basal joints honey-yellow beneath: *palpi* black: *thorax* pale honey-yellow, punctures not obvious: *scutcl* impunctured: *elytra* with numerous, small, distant punctures, not profound, dark violaceous-blue: *pectus* yellowish: *postpectus* blackish: *venter* blackish, last segment dull yellow: *thighs* honey-yellow; *tibiæ* black, yellowish at base: *tarsi* black.

Length nearly one-fifth of an inch.

Related to *collaris* Illig. and *collata* Fabr., particularly the latter, from which it may be distinguished by its blue elytra, and immaculate face.

SCYMNUS, Herbst.

*S. terminatus*, Black ; clytra at tip yellowish.

Inhab. Louisiana.

*Body* black, polished, punctured: *head* honey-yellow ; *antennæ*, club not much dilated, with numerous short hairs : *thorax* with numerous short hairs ; lateral margin honey-yellow : *scutel* acute behind : *clytra* at tip yellowish : *beneath* piceous black : *pectus*, *feet* and *venter* behind honey-yellow.

Length about two-twentieths of an inch.

HEMIPTERA.

PENTATOMA, Oliv. Latr.

*P. maculiventris*, Hemelytra with a line at tip ; venter with five series of black points.

Inhab. U. S.

*Body* yellowish or pale brownish, with dense, rather large punctures : *thorax* acutely angulated each side behind the middle ; edge granulated before the middle : *hemelytra* having an abbreviated fuscous line at tip of the membranous portion : *antennæ*, first joint short ; 2d longer than the third : *tergum* on the lateral margin with a blackish dot on each incisure : *beneath* yellowish : *feet* immaculate ; *thighs* sometimes having numerous minute blackish points ; *anterior tibiæ* with an obvious spine over the slight emargination : *venter* with five obvious series of small black dots.

Length less than two-fifths of an inch.

This is a common insect in many parts of the Union. The anterior central angle of the venter is produced between the bases of the posterior feet as in *Acanthosoma* of Curtis; but it does not agree with that genus in the more essential characters of the antennæ and tarsi.

**BELOSTOMA, Latr.**

1. *B. fluminea*, Fuscous; head, before the eyes attenuated; feet spotted.

Inhab. U. S.

*Body* rather long ovate, fuscous: *head* rapidly tapering from the anterior canthus of the eyes to the tip, forming in that part an equilateral triangle, of which the tip is obtuse, but less than one fourth the breadth of the space between the eyes; the anterior lobe or nasus hardly reaches the line between the anterior canthi of the eyes: *thorax* a little emarginate before, and less obviously so on each side; posterior to the transverse suture and a narrow lateral margin, paler: *tibiæ* and *tarsi* each with three black spots or interrupted annulations.

Length from seven-tenths to four-fifths of an inch.

This species is no doubt related to *B. rustica*, Fabr., but he describes the thorax of that species as being white before. Like that species the female carries her eggs on her back. Stoll's figure of the *rustica* represents it of a short ovate form. I purchased a specimen taken at New-Haven, one was sent to me from Georgia by Mr. Oemler

of Savannah and it is found in Pennsylvania and in Indiana and Louisiana. It has an extensive range.

As the larger North American species does not appear to have been noticed, I will add a description of it.

2. *B. grisea*, Oblong-oval; head before the eyes very short not attenuated; beneath with three blackish vittæ.

Inhab. U. S.

*Body* oblong-suboval, slightly wider behind the middle, grayish-brown varied with fuscous or blackish, particularly on each side of the disks of the thorax and scutel: *head* between the eyes hardly tapering from the base to the tip; from the anterior canthus of the eyes to the tip shorter than broad, not narrowed: *thorax*, lateral edge rectilinear: *pectus* and *postpectus* yellow, with three broad black vittæ, which become more dilated, brown and less obvious on the abdomen: *feet* obsolete subannulate.

Length two inches and one fifth; greatest breadth less than nine-tenths of an inch.

Occurs in many parts of the Union. I received a specimen many years since, from Dr. F. V. Melsheimer labeled *Nepa grisea*, which name I retain. It differs from the preceding in magnitude, in the form of the anterior part of the head, &c. It is much like the *B. grandis*, Linn. but is hardly half as large, and if Stoll's figure of that insect has any pretensions to accuracy, it is in other respects quite distinct. In that figure the greatest breadth is at the base of the elytra, &c.

It inhabits from Canada to Florida.

CORIXIA, Geoff. Latr.

*C. calva*, Thorax eight or nine lined; lines of the hemelytra subequal.

Inhab. U. S.

*Body* above glabrous, polished, pale yellowish, with transverse, black lines: *head* immaculate, the posterior angle distinct: *thorax* with eight or nine black, transverse lines: *hemelytra* with numerous, undulated or angulated black transverse lines more or less bifid and inosculated; those of the anterior inner portion not larger than the others; lateral groove and all *beneath* yellowish-white.

Length less than one-fifth of an inch.

Quite distinct from the *interrupta* and *alternata*, Nob. which are both minutely rugulous.

HYMENOPTERA.

FORMICA.

1st cubital cellule without recurrent nervure.

1. *F. melica*. Honey-yellow; scale truncate.

Inhab. Louisiana.

*Body* entirely honey-yellow: *eyes* rather prominent, black, short oval: *wings* very slightly tinted with yellow; nervures yellow: *scale* robust, broad, truncate, and having a slight tubercle each side before, less than half the height of the abdomen and not higher than the length of its base.

Length nine-twentieths of an inch. (Male.)

The small discoidal cellule, so distinct in the wing of *F. rufa*, F., does not exist in this species.

POLISTES, Latr.

1. *P. metrica*, Ferruginous; abdomen black; wings dark violaceous.

Inhab. U. S.

*Body* ferruginous: *antennæ* fuscous; 1st and 2d joints ferruginous beneath; 5 or 6 last joints fulvous beneath: *hypostoma* with a few distant yellow short hairs; not sericeous; at the middle of the tip a little prominent: *thorax* with a black dorsal line abbreviated behind, each side of which is an obsolete line confluent behind, exterior to which at base is a black line attenuated before and abbreviated: *wings* dark violaceous: *feet* black; *tibiæ* within, excepting the posterior pair, knees and tarsi yellowish: *abdomen* black; first segment obsolete each side and on the posterior edge; second segment also with obscure ferruginous on the side, sometimes obsolete.

Length over four-fifths of an inch.

Resembles the *annularis*, Fabr. but the ferruginous colour is more prevalent; the *hypostoma* is not sericeous, and a little more prominent in the middle; the basal abdominal segment is somewhat larger and destitute of the annulation.

I have obtained it abundantly in Indiana and Mr. Barabino sent it to me from New-Orleans.

## ANTHOPHORA, Latr.

*A. frontata*, Thorax with yellowish hair; hypostoma basal joint of the antennæ beneath and spot at base and near the tip of the mandibles, yellow.

Inhab. Louisiana.

[Male.] *Body* black: *hypostoma* yellow and with yellow hair: *antennæ* with the inferior longitudinal half of the basal joint yellow and with dense yellow hair: *nasus* yellow, with yellow hair: *labrum* black, covered by the hair of the nasus: *mandibles* with a yellow oval spot at base and a slender obsolete one near the tip: *maxillæ* with an obsolete yellowish spot before the palpi: *palpi* with a few rigid hairs; terminal joint one-third the length of the preceding joint: *tongue* ferruginous: *vertex* in the middle having a few yellow hairs: *thorax* with dense, long, yellow hair: *wing scale* black: *wings* with a slight dusky tint; nervures black, exterior recurrent nervure entering the outer cubital cellule directly opposite to the outer nervure of the cellule: *tergum* hairy: hairs black, rather long; a few yellow hairs towards the middle of the first segment: *anterior feet* with yellow hair on the posterior edge: *hind feet*, hairs not much elongated.

Length half an inch.

Differs from the *abrupta* Nob. in being less robust, the hair of the thorax being pale yellow, and the mandibles having a white spot near their tips.

## MEGACHILE, Latr.

*M. pollicaris* [Female.] Anterior tarsi dilated, deeply ciliated, appendage rather long; spines of the anterior coxæ yellow.

Inhab. Louisiana.

*Body* not very hairy, black: *wings* with a slight fuliginous tint, particularly at tip: *tergum* oblong subquadrate: *anal* segment with a sinus in the tip, each side of which are small inequalities of the edge: *anterior feet*, coxæ with prominent yellow spines, rufous on the exterior tip; thighs yellow, black at tip and base; tibiae black, yellow within and at tip, on the posterior tip a very short, acute spine; tarsi much dilated and deeply ciliated behind, yellow white, covered in their greatest part by a yellow broad scale, which is honey yellow at tip; nails honey yellow: *intermediate tarsi* cordate, the lobes of one side more prominent.

Length eleven-twentieths of an inch.

It differs in many respects from the *M. latimanus*, Nob. (Western Quarterly Reporter) which has the spines of the anterior coxæ black; the appendage of the anterior tarsi shorter &c. but it is perfectly congeneric with it, as well as with *Anthophora lagopoda*, Fabr., if I may judge by the similarity of the anterior feet, though it certainly approaches Steles in the paucity of the ventral hair. The maxillary palpi of *latimanus* have the second joint rather longer than the first.



## XYLOCOPA, Latr.

*X. carolina*, Fabr. This species was referred by Fabricius to the genus *Centris* and is even now generally considered as belonging to that genus. But doubting the accuracy of that arrangement, I found on examination, that the labial palpi are rectilinear, the terminal joints being in a right line with the others and the maxillary palpi are six-jointed. The mandibles have only one large tooth, which is on the inner side. The circumstance of Fabricius referring to Drury's fig. 1, pl. 43, of Vol. 1 for *BOMBUS virginicus*, Linn. leads me to suppose that he had this species also in view in that description. But as that description in the *Syst. Piez.* p. 346, agrees very well with one of our largest and finest species of *Bombus*, rather than introduce a new name, I would transfer the quotation of Drury's figure to the description of *X. carolina*, (*Centris*) F. &c.

I add the following description of it, which I formerly drew out, with the name of *valida*, under the belief that the *carolina* is really a *Centris* and therefore altogether different.

Blackish; a prominent, compressed, obtuse tubercle between the antennæ; thorax hairy.

Inhab. U. S.

[Female.] Body black, tinged with purplish: *head* with close set, discoidal punctures; an obvious, compressed tubercle between the antennæ, rounded at its tip: *labrum* conic: *thorax* tinged with greenish; with pale yellow

hair, except on the middle : *wings* fuliginous, sub-opake at tip : *tergum* tinted with very obscure green ; basal joint covered with pale yellow hairs : *pleura* beneath the wing, with yellow hairs.

Length about four-fifths of an inch.

[Male.] Nasus white. The tubercle of the head is very distinct. Common in this Union.

The male may be distinguished by their larger and more approximate eyes and white nasus. It varies in having the hair of the thorax and of the first abdominal segment, almost ferruginous.

## DIPTERA.

### TRYPETA, Meig.

**T:** *trifasciata*, Green ; wings with three bands.

Inhab. Louisiana.

*Body* brassy-green, polished : *vertex* greenish : *front* pale ferruginous, pruinose : *antennæ* ——— : *hypostoma* dark livid, pruinose : *mouth* pale ferruginous : *stethidium* entirely brassy-greenish : *wings* yellow-white, a blackish band on the middle obsolete at the thinner margin, and not including the smaller transverse nervure, but a little anterior to it ; a broader and not quite parallel band midway to the tip, including the larger transverse nervure and an equally broad band at tip not arquated : *tergum* purplish towards the tip : *poisers* pale yellowish : *feet* pale honey-yellow.

Length less than one-fifth of an inch.