

## EXPLANATION OF PLATE.

- Fig. 1. *Oribata badia* n. sp.  $\times 60$ .  
 Fig. 2. " " pseudostigma and pseudostigmatic organ,  $\times 342$ .  
 Fig. 3. " " lamellar hair,  $\times 342$ .  
 Fig. 4. " *albida* n. sp., pseudostigma and pseudostigmatic organ,  
 $\times 550$ .  
 Fig. 5. *Oribata albida* lamellar hair,  $\times 550$ .  
 Fig. 6. " *corpuscula* n. sp., pseudostigmatic organ,  $\times 342$ .  
 Fig. 7. " " right pteromorpha,  $\times 342$ .  
 Fig. 8. " *maxima* n. sp., pseudostigma and pseudostigmatic organ,  
 $\times 342$ .  
 Fig. 9. *Oribata maxima* lamella and lamellar hair,  $\times 97$ .  
 Fig. 10. " " right pteromorpha and adjacent parts,  $\times 67$ .

## A LIST OF THE NORTH AMERICAN PSEUDOSCORPIONIDA.

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THE *Pseudoscorpions*, like other *arachnida*, have been sadly neglected by American entomologists. This can be attributed, in a great measure, to the dearth of systematic literature. The first paper of any importance to appear was Dr. Hagen's "Synopsis Pseudoscorpionidum, synonymica," published by the Boston Society of Natural History (Proc. vol. xiii, pp. 263-272, 1870). Later, Banks published several papers, including "Notes on North American Chernetidae"<sup>1</sup> and "Notes on the Pseudoscorpionida,"<sup>2</sup> the latter superseding. Since then a number of new species have been described and many more will be added when our southern and western faunas are more carefully studied. A number of European papers have also appeared, but these are scarcely accessible to the average student. The habits of the *Pseudoscorpions* should prove a very interesting field for investigation. Berger (Ohio Nat. vi, 489, 1900) has recorded quite fully the life history of *Atemnus elongatus* Banks. I hope in the near future to be able to give a full bibliography of this interesting group.

<sup>1</sup> Can. Ent. XXIII, p. 160, 1891.

<sup>2</sup> Journ. New York Ent. Soc. V, 3, p. 1, 1895.

## FAMILY CHELIFERIDAE.

## Sub-family CHELIFERINAE.

*Chelifer cancroides* Linn.

Linn., Faun. Suec., ed. XXI, 345, 1767.

Latr., Gen. Crust., I, 32, n. I.

Cuv., Règne Anim., ed. Voigt., IV, 406.

Hagen, Rec. Am. Ent., 51, 1863.

Hagen, Syn. Pseud. Synonymica, 263, 1870.

Banks, Journ. N. Y. Ent. Soc., 3, 3, 1895.

Tullgren, Ent. Tidskr. XX, p. 161-182, 1899.

= *europaeus* De Geer.

De Geer, Mém., VII, 355.

= *fuscus* Geoff.

Geoffr., Hist. Abrég., II, 618.

= *granulatus* Koch.

Koch, Arachn., X, 37, t. 377.

= *hermanni* Leach.

Leach, Zool. Misc., III, 49, n. I.

= (?) *ixoides* Hahn.

Hahn, Arachn., 11, 53, t. 60.

Koch, Arachn., X, 39, t. 338.

cf. Menge, Chernet., 30.

= *latreillii* Leach.

Leach, Zool. Misc., III, 49, n. 2. (An *sexus alter* ch. Hermann? teste Leach.)

= *Obisium cancroides* Walck.

Walcken., Faun. Paris, II, 253, n. 2.

A wide-spread and common species occurring throughout Europe and North America.

*Chelifer biseriatum* Banks.

Banks, Journ. N. Y. Ent. Soc., 3, 3, 1895.

Berger, Ohio Nat. VI, 407, 1905.

Lake Poinsett and Punta Gorda, Florida and Berea, Ohio.

*Chelifer floridanus* Banks.

Banks, Can. Ent. XXIII, 162, 1891.

Known only from Southern Florida.

*Chelifer muricatus* Say.

Say, Journ. Acad. Phila., II, 63, 1821.

Say, Comp. Writings, Leconte Ed. 2, 1891.

Hagen, Rec. Am. Ent. 51, 1868.

Banks, Journ. N. Y. Ent. Soc. 3, 3, 1895.

Common in the eastern and middle western states. Alabama, Florida, Kentucky, New York, Long Island, Virginia, Ohio.

*Chelifer scabrisculus* Simon.

Simon, Ann. Soc. Ent. Fr., 1878.

Banks, Journ. N. Y. Ent. Soc. 3, 4, 1895.

= *degeneratus* Balzan.

Balzan, Ann. Soc. Ent. Fr., 1891.

A western species, reported from Southern California, Lake Tahoe, Oregon and Utah. I have found it very common about San Francisco Bay.

*Chelifer mirabilis* Banks.

Banks, Journ. N. Y. Ent. Soc. 3, 4, 1895.

A cave species, described from Barren County, Kentucky and Pennington Gap Virginia.

*Chelifer hubbardi* Banks.

Banks, Proc. U. S. Nat. Mus. XXIII, 5888, 1901.

Southern Arizona.

*Chelanops oblongus* Say.

Say, Journ. Acad. Phila., 64, 2, 1821.

Say, Comp. Writings, Leconte Ed. V. 2, 1891.

Hagen, Syn. Pseud. Synonymica, 267, 1870.

Banks, Journ. N. Y. Ent. Soc. 3, 5, 1895.

Berger, Ohio Nat. VI, 407, 1905.

= *alius* Leidy.

Leidy, Proc. Phila. Acad. Sci., 266, 1877.

Well distributed throughout the eastern and southern states.

Leidy's specimens were taken from an Elaterid beetle, *Alaus ocellatus*.

*Chelanops grossus* Banks.

Banks, Can. Ent. XXV, 65, 1893. (*Chernes grossus*.)

Banks, Proc. U. S. Nat. Mus. XXV, 220, 1903.

Colorado and Southern Arizona.

*Chelanops texanus* Banks.

Banks, Can. Entom. XXIII, 162, 1891. (*Chelifer texanus*.)

Banks, Journ. N. Y. Ent. Soc. 3, 5, 1895.

Known only from Brazos County, Texas.

*Chelanops acuminatus* Simon.

Simon, Ann. Soc. Ent. Fr., 1878. (*Chelifera acuminatus*.)

Found in California and Washington.

*Chelanops floridae* Balzan.

Balzan, Ann. Soc. Ent. Fr., 1891.

Banks, Journ. N. Y. Ent. Soc. 3, 5, 1895.

Florida.

*Chelanops latus* Banks.

Banks, Can. Ent. XXV, 64, 1893.

Florida.

*Chelanops dentatus* Banks.

Banks, Journ. N. Y. Ent. Soc. 3, 6, 1895.

*Chelanops latimanus* Banks.

Banks, Journ. N. Y. Ent. Soc. 3, 6, 1895.

Punta Gorda, Florida.

*Chelanops virginica* Banks.

Banks, Journ. N. Y. Ent. Soc., 3, 6, 1895.

Described from Fredricksburg, Virginia.

*Chelanops tristis* Banks.

Banks, Can. Entom. XXIII, 163, 1891.

Found along the sea-shore at Long Island, N. Y.

*Chelanops morosus* Banks.

Banks, Journ. N. Y. Ent. Soc. 3, 7, 1895.

Isle Royale, Lake Superior.

*Chelanops tumidus* Banks.

Banks, Journ. N. Y. Ent. Soc. 3, 7, 1895.

Indian River, Florida.

*Chelanops validus* Banks.

Banks, Journ. N. Y. Ent. Soc. 3, 7, 1895.

Described from Lake Tahoe. It is plentiful in Santa Clara Co., Cal.

*Chelanops pallipes* Banks.

Banks, Can. Ent. XXV, 64, 1893.

Occurs in California and Colorado.

*Chelanops sanborni* Hagen.

Hagen, Record Am. Ent., 1868.

New York, Mass., and Indiana.

*Chelanops dorsalis* Banks.

Banks, Journ. N. Y. Ent. Soc. 3, 8, 1895.

Lake Tahoe, California.

*Chelanops pallidus* Banks.

Banks, Can. Ent. XXII, 152, 1890.

Ithaca, New York and Lawrence County, Indiana.

*Chelanops affinis* Banks.

Banks, Insect Life, May, 1894.

Crescent City, Florida.

*Chelanops arizonensis* Banks.

Banks, Proc. U. S. Nat. Mus. XXIII, 589, 1901.

Southern Arizona.

## Sub-family GARYPINAE.

*Garypus bicornis* Banks.

Banks, Journ. N. Y. Ent. Soc. 3, 8, 1895.

Found between the laminae of rocks at Specimen Ridge, Yellowstone National Park.

*Garypus floridensis* Banks.

Banks, Journ. N. Y. Ent. Soc. 3, 9, 1895.

Indian River, Florida.

*Garypus granulatus* Banks.

Banks, Can. Ent. XXIII, 163, 1891.

Ithaca, New York.

## FAMILY OBISIIDAE.

## Sub-family OLPINAE.

*Olpium obscurum* Banks.

Banks, Can. Ent. XXV, 65, 1893.

Florida.

*Atemnus elongatus* Banks.

Banks, Journ. N. Y. Ent. Soc. 3, 10, 1895.

Berger, Ohio Nat., VI, 489, 1906.

Florida.

## Sub-family OBISIINAE

## Tribe IDEOBISIINAE

*Ideobisium threventi* Simon

Simon, Ann. Soc. Ent. Fr., 1878. (*Obisium threventi*.)

A common western species, reported from California, Oregon, Washington and Arizona.

*Ideobisium rufulum* Banks.

Banks, Can. Ent. XXIII, 166, 1891. (*Olpium rufulum*.)

Washington, D. C., and Virginia.

*Ideoroncus obscurus* Banks.

Banks, Can. Ent. XXV, 66, 1893.

Banks, Journ. N. Y. Ent. Soc. 3, 11, 1895.

Washington, Montana and California.

## Tribe OBISINI.

*Obisium cavicala* Packard.

Packard, Am. Nat., Febr., 1884.

Banks, Journ. N. Y. Ent. Soc. 3, 11, 1895.

From New Market Cave, Virginia.

*Obisium brunneum* Hagen.

Hagen, Rec. Am. Ent., 1868.

Banks, Journ. N. Y. Ent. Soc. 3, 11, 1895.

An abundant species in the northern states.

*Obisium parvulum* Banks.

Banks, Journ. N. Y. Ent. soc. 3, 12, 1895.

Florida?

*Obisium macilentum* Simon.

Simon, Ann. Soc. Ent. Fr., 1878

Southern California.

*Obisium carolinensis* Banks.

Banks, Journ. N. Y. Ent. Soc. 3, 12, 1895.

North Carolina and Lee County, Virginia.

*Blothrus californicus* Banks.

Banks, Can. Ent. XXIII, 165, 1891. (*Atemnus californicus*.)

Inhabits California.



## Tribe CETHONINI.

*Chthonius packardi* Hagen.

Hagen, Zool. Anz., July, 1879.

Indian Cave and Mammoth Cave, Kentucky and Wyandotte Cave, Indiana.

*Chthonius coecus* Packard.

Packard, Amer. Nat., Feb. 1884.

Weyer's Cave, Virginia.

*Chthonius pennsylvanicus* Hagen.

Hagen, Rec. Amer. Ent., 1868.

Banks, Can. Ent. XXIII, 164, 1891.

Berger, Ohio Nat. VI, 407, 1905.

Penna., New York and Florida.

*Chthonius moestus* Banks.

Banks, Can. Ent. XXIII, 165, 1891.

Ithaca, New York.

*Chthonius spinosus* Banks.

Banks, Can. Ent. XXV, 67, 1893.

Citrus County, Florida.

*Lechytia pacifica* Banks.

Banks, Can. Ent. XXV, 66, 1893. (*Roncus pacificus*.)

Olympia, Washington.

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NEW ENGLAND FEDERATION OF NATURAL HISTORY SOCIETIES.—By invitation of the Vermont Societies the next meeting of the Federation will be held with them at Middlebury, Vt., on Thursday, Friday and Saturday, January 21, 22, 23. The Vermont Botanical and Bird Clubs will hold their regular winter meetings and there will be a general meeting of the Federation, an Exhibition and visits to the collections at Middlebury and Burlington. A circular giving further details will be issued about January 1.

J. H. EMERTON, *Secretary*.



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