

## **Syntypes of Decapoda described by William Stimpson and James Dana in the collections of the British Museum (Natural History)**

ANGELA C. EVANS

British Museum (Nat. Hist.), London

### **Introduction**

Among the collections of Crustacea in the British Museum (Natural History) a considerable amount of type material has recently been located in two collections received in 1861, of which the significance had not previously been appreciated. One of the collections (Reg. No. 61.44) was presented by the Smithsonian Institution, Washington, D.C. and the entry in the registration book reads "mostly types selected compared and labelled by Wm. Stimpson", while the other (Reg. No. 61.45) was purchased from William Stimpson.

Both of these collections contain specimens of syntypes described by Stimpson, and, in addition, collection 61.44 contains specimens of syntypes selected and described by James Dana between 1851 and 1853 from the collections of the United States Exploring Expedition during the years 1838-1842 (see Haskell, 1942, p. 79 for dates of publication of Dana Report).

The 'rediscovery' of this syntype material is of particular importance in view of Stimpson's interesting and chequered career, culminating in the tragic destruction of the majority of his material in the great fire of Chicago in 1871.

William Stimpson was born on 14 February 1832, in Roxbury, Massachusetts. Energetic by nature and witty, he enjoyed company. He became interested in natural history at a relatively young age. After graduating from High School in 1848 he entered, on his father's advice, a firm of engineers, but in 1850 left to study under Professor J. L. R. Agassiz at Cambridge, Massachusetts. He accompanied Agassiz on many collecting trips and in 1852 was appointed as naturalist to the North Pacific Exploring Expedition. Stimpson spent four years with the expedition collecting in Madeira, along the Californian coast, in the North Pacific, the Bering Straits, Tahiti, Hong Kong, the China Seas and around the Cape of Good Hope. Approximately 980 different species of Crustacea alone were collected but the majority of these specimens were destroyed some 20 years later during the Chicago fire.

In 1856, Stimpson returned from the North Pacific Expedition and began to work on his collections at the Smithsonian Institution. His summers were spent in the company of such naturalists as Verrill, Hyatt, Shaler and Morse, on dredging expeditions round the North American coast. He also visited Britain in order to accompany coastal dredging expeditions. It was during this period that he was put in charge of the Department of Invertebrates at the Smithsonian Institution and in 1860 the University of Columbia conferred on him the honorary degree of Doctor of Medicine, in recognition of his services to science.

He was appointed Curator and Secretary of the Chicago Academy of Science in 1865 and a year later became Director. About this time the trustees decided

to erect a fire-proof museum building and this was completed in 1868. The building occupied an area of  $50 \times 55$  ft and was 50 ft high. The walls were 2 ft thick with a central air space, the floors were composed of brick and iron and the stairways and principal doors were also made of iron. This structure was considered to be so fire-proof that it was not insured, yet in October 1871 it was totally destroyed in the Chicago fire.

Stimpson had stored in the building the collections made on the North Pacific Expedition and specimens collected on his many expeditions along the coasts of North America. At the time of the fire, he had on loan from the Smithsonian Institution more than 10 000 jars of Crustacea, many of which contained type material described by James Dana. All of this material was lost, together with many of Stimpson's manuscripts, drawings and library, which only a few weeks previously he had gathered together from his own and his father's homes, Professor Agassiz's laboratory and the Smithsonian Institution.

This tragedy so seriously affected Stimpson's already failing health, that he died at Ilchester, Maryland, on 26 May 1872, at the early age of 40.

Stimpson had extensive correspondence with friends and various societies and a world-wide system of exchanges. It was as a result of this system that the British Museum came into possession of some of his specimens. It is difficult to trace whether other institutions may also have received syntype material, but it is possible that specimens were deposited in the Smithsonian Institution, Yale College, and the Museum of Comparative Zoology, Harvard.

It was obviously not widely known that Stimpson had deposited type material in the British Museum and various authors have considered that the types of several of his species were lost.

The bibliography to this paper includes references to those of Stimpson's papers which deal more particularly with crustaceans but for a complete list of his papers the reader should consult the biographical memoir by Mayer (1918).

The species described by Stimpson and by Dana are listed separately below under their original combination. The systematic arrangement follows Balss (1957) with the original Stimpson and Dana group designation in square brackets after the specific name.

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#### **Syntypical material of species described by William Stimpson**

Order DECAPODA

NATANTIA

Family PENAEOIDAE

*Penaeus constrictus* Stimpson, 1871 : 135 [CARIDEA]

Type locality: Beaufort harbor, North Carolina; also Charleston harbor.

Museum material: Reg. No. 61.45; 1 specimen in Spirit Coll.:

Beaufort harbor, North Carolina.

*Sicyonia ocellata* Stimpson, 1860 c : 43 [CARIDEA].

Type localities: Port of Hong Kong, also China Seas, latitude bor. [N.] 24°.

Museum material: Reg. No. 61.44; 2 specimens in Dry Coll.  
Hong Kong, China.

Family **PASIPHAEIDAE**

*Leptochela gracilis* Stimpson, 1860 c : 42 [CARIDEA].

Type locality: Sinu 'Kagosima'.

Museum material: Reg. No. 61.44; 1 specimen in Spirit Coll.  
S. Japan.

Family **PANDALIDAE**

*Pandalus goniurus* Stimpson, 1860 c : 36 [CARIDEA]

Type locality: Sinu 'Avatska', Kamtschatkae.

Museum material: Reg. No. 61.44; 2 specimens in Spirit Coll.  
Kamtschatka.

*Pandalus gracilis* Stimpson, 1860 c : 37 [CARIDEA]

Type locality: Sinu 'Hakodadi'.

Museum material: Reg. No. 61.44; 1 specimen in Spirit Coll.  
Hakodadi.

*Pandalus escatilis* Stimpson, 1860 c : 37 [CARIDEA].

Type locality: Madeira.

Museum material: Reg. No. 61.44; 2 specimens in Dry Coll.  
Madeira.

(The label and list of Museum material reads *Pandalus esca*, which I assume must be an abbreviation.)

Family **HIPPOLYTIDAE**

*Virbius pleuracanthus* Stimpson, 1871 : 127 [CARIDEA].

Type localities: Norfolk harbor, Virginia; Somers' Point in Great Egg harbor, New Jersey.

Museum material: Reg. No. 61.45; 1 specimen in Spirit Coll.  
Virginia.

*Hippolyte cristata* Stimpson, 1860 c : 33 [CARIDEA].

Type locality: San Francisco, California.

Museum material: Reg. No. 61.44; 1 specimen in Spirit Coll.  
California.

*Hippolyte picta* Stimpson, 1871 : 125 [CARIDEA].

Type locality: Monterey, California.

Museum material: Reg. No. 61.44; 1 specimen in Spirit Coll.  
California.

Family **PALAEMONIDAE**

*Palaemonetes carolinus* Stimpson, 1871 : 129 [CARIDEA].

Type localities: Charleston, South Carolina; Great Egg harbor, New Jersey;  
Beaufort harbor, North Carolina.

Museum material: Reg. No. 61.45; 2 specimens in Spirit Coll.  
North Carolina.

*Leander pacificus* Stimpson, 1860 c : 40 [CARIDEA].

Type localities: Pacific Ocean; Hong Kong; Hawaii; Simoda.

Museum material: Reg. No. 61.44; 3 specimens in Spirit Coll.  
Hong Kong; China.

*Urocaris longicaudata* Stimpson, 1860 c : 39 [CARIDEA].

Type locality: Coast of Carolina.

Museum material: Reg. No. 61.45; 1 specimen in Spirit Coll.  
South Carolina.

*Harpilius depressus* Stimpson, 1860 c : 39 [CARIDEA].

Type locality: Hawaii.

Museum material: Reg. No. 61.44; 1 specimen in Spirit Coll.  
Sandwich Islands (Hawaii).

*Anchistia grandis* Stimpson, 1860 c : 39 [CARIDEA].

Type locality: 'Ousima'.

Museum material: Reg. No. 61.44; 1 specimen in Spirit Coll.  
South Japan.

Family **CRANGONIDAE**

*Crangon franciscorum* Stimpson, 1856 : 89 [CARIDEA].

Type locality: Sandy coves around San Francisco Bay, California.

Museum material: Reg. No. 61.44; 3 specimens in Spirit Coll.  
California.

*Crangon nigricauda* Stimpson, 1856 : 89 [CARIDEA].

Type locality: San Francisco Bay, California.

Museum material: Reg. No. 61.44; 8 specimens in Spirit Coll.  
California.

## REPTANTIA

## ANOMURA

Family **CALLIANASSIDAE**

*Glypturus acanthochirus* Stimpson, 1866 : 46 [THALASSINOIDEA].

Type locality: Florida Keys, Tortugas.

Museum material: Reg. No. 61.45; 1 specimen in Spirit Coll.  
Florida.

Family **PAGURIDAE**

*Clibanarius antillensis* Stimpson, 1859 : 85 [PAGURIDEA].

(1858 c, *Proc. Acad. nat. Sci. Philad.* 1858 c : 235 *nomen nudum*)

(1859, *Ann. Lyceum nat. Hist. N.Y.* 7 : 85).

Type locality: "Barbadoes" (1859); Antilles (1858 c).

Museum material: Reg. No. 61.44; 1 specimen in Spirit Coll.

"Barbadoes."

*Eupagurus trigonocheirus* Stimpson, 1858 c : 249 [PAGURIDEA].

Type localities: Artic Ocean; Bering Straits.

Museum material: Reg. No. 61.44; 1 specimen in Dry Coll.

Be[h]ring Straits.

*Eupagurus annulipes* Stimpson, 1860 : 243 [PAGUROIDEA].

Type locality: Beaufort harbor, North Carolina and off adjacent coast.

Museum material: Reg. No. 61.45; 2 specimens in Spirit Coll.

North Carolina.

Family **GALATHEIDAE**

*Pleuroncodes planipes* Stimpson, 1860 : 245 [GALATHEOIDEA].

Type localities: Monterey, California; Pacific Ocean, off the American coast;  
N. lat. 24°, W. long. 130°.

Museum material: Reg. No. 61.44; 4 specimens in Dry Coll.

Monterey, California.

Family **PORCELLANIDAE**

*Euceramus praelongus* Stimpson, 1860 b : 445 [PORCELLANIDEA].

Type locality: Beaufort, North Carolina.

Museum material: Reg. No. 61.45; 1 specimen in Spirit Coll.

North Carolina.

*Pachycheles rudis* Stimpson, 1859 : 76 [PORCELLANIDEA].

(1858c, *Proc. Acad. nat. Sci. Philad.* 1858 c : 228 *nomen nudum*)

(1859, *Ann. Lyceum nat. Hist. N.Y.* 7 : 76.)

Type localities: Coast of California; Monterey, California, San Luis,  
Obispo; Nr. San Francisco.

Museum material: Reg. No. 61.44; 2 specimens in Dry Coll.

Monterey, California.

*Petrolisthes tridentatus* Stimpson, 1859 : 75 [PORCELLANIDEA].

(1858c, *Proc. Acad. nat. Sci. Philad.* 1858 c : 227 *nomen nudum*)

(1859, *Ann. Lyceum nat. Hist. N.Y.* 7 : 75)

Type locality: Antilles (1858); "Barbadoes"; St. Thomas (1859).

Museum material: Reg. No. 61.44; 1 specimen in Spirit Coll.

"Barbadoes."

*Porcellana rupicola* Stimpson, 1857 : 480 [PORCELLANIDEA].

Type locality: Coast of California.

Museum material: Reg. No. 61.44; 4 specimens in Dry Coll.  
Tomales Bay, Monterey, California.

*Porcellanella picta* Stimpson, 1858 c : 243 [PORCELLANIDEA].

Type locality: Hong Kong.

Museum material. Reg. No. 61.44; 2 specimens in Dry Coll.  
Hong Kong.

*Raphidopus ciliatus* Stimpson, 1858 c : 241 [PORCELLANIDEA].

Type locality: Hong Kong.

Museum material: Reg. No. 61.44; 1 specimen in Spirit Coll.  
China.

#### Family **ALBUNEIDAE**

*Lepidops myops* Stimpson, 1860 : 241 [HIPPOIDEA].

Type locality: Cape St. Lucas, California.

Museum material: Reg. No. 61.44; 2 specimens in Spirit Coll.  
Cape St. Lucas, California.

#### Family **HIPPIDAE**

*Remipes strigellatus* Stimpson, 1860 : 241 [HIPPOIDEA].

Type locality: Cape St. Lucas, California.

Museum material: Reg. No. 61.44; 3 specimens in Spirit Coll.  
Cape St. Lucas, California.

*Mastigopus gracilis* Stimpson, 1858 c : 244 [HIPPIDAE].

Type locality: China Sea; lat. bor. [N] 23°.

Museum material: Reg. No. 61.44; 1 specimen in Spirit Coll.  
China Seas.

### BRACHYURA

### OXYSTOMATA

#### Family **CALAPPIDAE**

*Calappa galloides* Stimpson, 1859 : 71 [CALAPPOIDEA].

Type locality: Florida Keys.

Museum material: Reg. No. 61.44; 1 specimen in Dry Coll.  
Garden Key; Tortugas, Florida.

*Cyclois bairdii* Stimpson, 1860 : 237 [CALAPPOIDEA].

Type locality: Cape St. Lucas, California.

Museum material: Reg. No. 61.44; 5 specimens in Dry Coll.  
Cape St. Lucas, California.

## BRACHYGNATHA

## OXYRHYNCHA

## Family MAJIDAE

*Mithrax tuberculatus* Stimpson, 1860 : 189 [MAIOIDEA].

Type locality: Cape St. Lucas, California.

Museum material: Reg. No. 61.44; 3 specimens in Dry Coll.  
Cape St. Lucas, California.

*Pericera subparallela* Stimpson, 1860 : 182 [MAIOIDEA].

Type locality: St. Thomas, West Indies.

Museum material: Reg. No. 61.44; 1 specimen in Dry Coll.  
West Indies.

*Thoe sulcata* Stimpson, 1860 : 177 [MAIOIDEA].

Type locality: Cape St. Lucas, California.

Museum material: Reg. No. 61.44; 2 specimens in Dry Coll.  
Cape St. Lucas, California.

*Teleophrys cristulipes* Stimpson, 1860 : 190 [MAIOIDEA].

Type locality: Cape St. Lucas, California.

Museum material: Reg. No. 61. 44; 1 specimen in Spirit Coll.  
Cape St. Lucas, California.

## Family PARTHENOPIDAE

*Lambrus triangulus* Stimpson, 1860 : 201 [MAIOIDEA].

Type locality: Cape St. Lucas, California.

Museum material: Reg. No. 61.44; 2 specimens in Dry Coll.  
Cape St. Lucas, California.

## BRACHYRHYNCHA

## Family ATELECYCLIDAE

*Pliosoma parvifrons* Stimpson, 1860 : 228 [CORYSTOIDEA].

Type locality: Cape St. Lucas, California.

Museum material: Reg. No. 61.44; 6 specimens in Dry Coll.; 3 specimens in  
Spirit Coll.  
Cape St. Lucas, California.

## Family PORTUNIDAE

*Achelous tuberculatus* Stimpson, 1860 : 223 [CANCROIDEA].

Type locality: Cape St. Lucas, California.

Museum material: Reg. No. 61.44; 7 specimens in Dry Coll.  
Cape St. Lucas, California.

*Achelous xantusii* Stimpson, 1860 : 223 [CANCROIDEA].

Type locality: Cape St. Lucas, California.

Museum material: Reg. No. 61.44; 6 specimens in Dry Coll.  
Cape St. Lucas, California.

*Amphitrite depressifrons* Stimpson, 1859 : 58 [CANCROIDEA].

Type locality: South Carolina; Florida Keys.

Museum material: Reg. No. 61.44; 3 specimens in Dry Coll.  
Southern States, U.S.A.

#### Family XANTHIDAE

*Actaea sulcata* Stimpson, 1860 : 203 [CANCROIDEA].

Type locality: Cape St. Lucas, California.

Museum material: Reg. No. 61.44; 6 specimens in Spirit Coll.  
Cape St. Lucas, California.

*Atergatis rotundatus* Stimpson, 1860 : 202 [CANCROIDEA].

Type locality: Cape St. Lucas, California.

Museum material: Reg. No. 61.44; 2 specimens in Spirit Coll.  
Cape St. Lucas, California.

*Daira americana* Stimpson, 1860 : 212 [CANCROIDEA].

Type locality: Cape St. Lucas, California.

Museum material: Reg. No. 61.44; 2 specimens in Dry Coll.  
Cape St. Lucas, California.

*Polycremnus verrucifer* Stimpson, 1858 : 33 [CANCROIDEA].

Type locality: Hong Kong.

Museum material: Reg. No. 61.44; 1 specimen in Dry Coll.  
Hong Kong.

*Xantho planissima* Stimpson, 1860 : 205 [CANCROIDEA].

Type locality: Cape St. Lucas, California.

Museum material: Reg. No. 61.44; 3 specimens in Spirit Coll.  
Cape St. Lucas, California.

*Xantho bella* Stimpson, 1860 : 204 [CANCROIDEA].

Type locality: Monterey, California; Fort Townsend, Puget Sound.

Museum material: Reg. No. 61.44; 4 specimens in Dry Coll.  
Monterey, California.

\* *Xantho denticulata* Stimpson, 1860 : 207 [CANCROIDEA].

Type locality: Cape St. Lucas, California.

Museum material: Reg. No. 61.44; 7 specimens in Spirit Coll.  
Cape St. Lucas, California.

\* *Xantho denticulata* Stimpson, 1860 is a junior homonym of *Xantho denticulatus* White, 1848 *Ann. Mag. nat. Hist.* (2), 2 : 285) and has been renamed *Xantho stimpsoni* by A. Milne Edwards, 1879 (*Mission Sci. Mexique Amer. Centr. Rech. Zool.* 1, pt. 5 : 252).



*Xantho lamellipes* Stimpson, 1860 : 205 [CANCROIDEA].

Type locality: Cape St. Lucas, California.

Museum material: Reg. No. 61.44; 3 specimens in Spirit Coll.  
Cape St. Lucas, California.

*Xantho vittata* Stimpson, 1860 : 206 [CANCROIDEA].

Type localities: Panama; Cape St. Lucas, California.

Museum material: Reg. No. 61.44; 7 specimens in Spirit Coll.  
Cape St. Lucas, California.

*Xanthodes elegans* Stimpson, 1858 : 33 [CANCRIDAE].

Type locality: ' Simoda ', Japan.

Museum material: Reg. No. 61.44; 1 specimen in Dry Coll.  
Simoda, Japan.

*Xanthodius hebes* Stimpson, 1860 : 209 [CANCROIDEA].

Type locality: Cape St. Lucas, California.

Museum material: Reg. No. 61.44; 6 specimens in Dry Coll.; 2 specimens in  
Spirit Coll.  
Cape St. Lucas, California.

*Pilumnus gemmatus* Stimpson, 1860 : 214 [CANCROIDEA].

Type locality: St. Thomas, West Indies; Tortugas.

Museum material: Reg. No. 61.44; 2 specimens in Dry Coll.  
West Indies.

#### Family GONEPLACIDAE

*Speocarcinus carolinensis* Stimpson, 1859 : 59 [OCYPODOIDEA].

Type locality: Charleston harbor, South Carolina.

Museum material: Reg. No. 61.44; 1 specimen in Spirit Coll.  
Charleston Bay, South Carolina.

*Scalopidia spinosipes* Stimpson, 1858 a : 95 [RHIZOPIDAE].

Type locality : Hong Kong.

Museum material: Reg. No. 61.44; 2 specimens in Dry Coll.  
Hong Kong, China.

*Typhlocarcinus villosus* Stimpson, 1858 a : 96 [RHIZOPIDAE].

Type locality: Hong Kong.

Museum material: Reg. No. 61.44; 1 specimen in Spirit Coll.  
China Sea.

#### Family OCYPODIDAE

*Ocypoda occidentalis* Stimpson, 1860 : 229 [OCYPODOIDEA].

Type locality : Cape St. Lucas, California.

Museum material: Reg. No. 61.44; 3 specimens in Dry Coll.  
Cape St. Lucas, California.

*Gelasimus panamensis* Stimpson, 1859 : 63 [OCYPODOIDEA].

Type locality: Panama.

Museum material: Reg. No. 61.44; 3 specimens in Dry Coll.  
Panama.

Family **GRAPSIDAE**

*Grapsus altrifrons* Stimpson, 1860 : 230 [OCYPODOIDEA].

Type locality: Cape St. Lucas, California.

Museum material: Reg. No. 61.44; 2 specimens in Dry Coll.  
Cape St. Lucas, California.

**Syntypical material of species described by J. D. Dana**

Order DECAPODA

NATANTIA

Family **ALPHEIDAE**

*Alpheus malleator* Dana, 1852 : 23 [PALAEMONIDAE].

Type locality: "Rio Janeiro ?"

Museum material: Reg. No. 61.44; 1 specimen in Dry Coll.  
"Rio Janeiro."

Family **PALAEMONIDAE**

*Palaemon debilis* Dana, 1852 : 26 [PALAEMONIDAE].

Type locality: Hawaii (Sandwich Islands).

Museum material: Reg. No. 61.44; 2 specimens in Spirit Coll.  
Sandwich Islands.

Family **CRANGONIDAE**

*Crangon munitus* Dana, 1852 : 20 [PALAEMONIDAE].

Type locality: Puget Sound.

Museum material: Reg. No. 61.44; 2 specimens in Spirit Coll.  
Puget Sound.

REPTANTIA

ASTACURA

Family **PARASTACIDAE**

*Paranephrops tenuicornis* Dana, 1852 : 20 [ASTACIDAE].

Type locality: Bay of Islands, New Zealand.

Museum material: Reg. No. 61.44; 1 specimen in Dry Coll.  
New Zealand.

## ANOMURA

Family **PAGURIDAE**

*Bernhardus novi-zealandiae* Dana, 1851 : 269 [PAGURIDAE].

Type locality : Bay of Islands, New Zealand.

Museum material: Reg. No. 61.44; 1 specimen in Dry Coll.  
New Zealand.

Family **PORCELLANIDAE**

*Porcellana speciosa* Dana, 1853 : 417 [PORCELLANIDEA].

Type localities: Drummond Island (or Tapateouea), Kingsmills Group;  
Wakes Island, North Pacific; Mangsi Islands, Balabac  
Straits; Raraka, Paumotu Archipelago

Museum material: Reg. No. 61.44; 1 specimen in Dry Coll.  
Raraka.

*Porcellana valida* Dana, 1853 : 415 [PORCELLANIDEA].

Type locality: Valparaiso ?; Chile.

Museum material: Reg. No. 61.44; 2 specimens in Dry Coll.  
Chile.

## BRACHYURA

## BRACHYGNATHA

## BRACHYRHYNCHA

Family **PORTUNIDAE**

*Thalamita integra* Dana, 1852 a : 85 [PORTUNIDAE].

Type localities: Paumote and Hawaii (Sandwich Islands).

Museum material: Reg. No. 61.44; 2 specimens in Dry Coll.  
Sandwich Islands.

Family **XANTHIDAE**

*Chlorodius cavipes* Dana, 1852 a : 79 [CANCROIDAE].

Type locality: ?

Museum material: Reg. No. 61.44; 2 specimens in Dry Coll.  
Pacific Ocean.

*Pseudozius planus* Dana, 1852 a : 81 [ERIPHIDAE].

Type localities: Paumotu; Wakes Island.

Museum material: Reg. No. 61.44; 2 specimens in Dry Coll.  
Paumotu.

Family **GRAPSIDAE**

*Grapsus planifrons* Dana, 1851 : 249 [GRAPSIDAE].

Type locality: Valparaiso.

Museum material: Reg. No. 61.44; 1 specimen in Dry Coll.  
Valparaiso.

*Chasmognathus granulatus* Dana, 1851 : 251 [GRAPSIDAE].

Type locality: Lake Peteninga marshes, near " Rio Janeiro".  
Museum material: Reg. No. 61.44; 3 specimens in Dry Coll.  
" Rio Janeiro ".

*Cyrtograpsus angulatus* Dana, 1851 : 250 [GRAPSIDAE].

Type locality: Rio Negro, Patagonia.  
Museum material: Reg. No. 61.44; 2 specimens in Dry Coll.  
Rio Negro, Patagonia.

#### Family GECARCINIDAE

*Cardisoma hirtipes* Dana, 1851 : 253 [GECARCINIDAE].

Type locality: Islands of ' Viti ' (Fiji Islands).  
Museum material: Reg. No. 61.44; 1 specimen in Dry Coll.  
Fiji Islands

#### Summary

Syntypical specimens of Decapod Crustacea described by William Stimpson and James Dana have recently been found in the collections of the British Museum (Nat. Hist.). This material is of considerable interest since much of Stimpson's collection was destroyed in the Great Fire of Chicago in 1871. The species are listed under their original combination according to the classification of Balss (1957).

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