the Mexican line runs, and I believe that this will be the southern record of this species in our fauna for all time. *Læta* has been recorded from Mt. Graham, in Graham County, and has also been found in the Chiricahua Mountains. It doubtless occurs in all the ranges of Southern Arizona. Though it is well distributed, ranging from Quebec south to West Virginia, and west to Montana, from whence it comes south to Sonora, it seems to be everywhere local and scarce. Arizona *Theclas* have been very much not in evidence this year. The first broods of *blenina* Hewitson, *læta* Edwards and *spinetorum* Boisduval have been unduly scanty. *Apama* Edwards and *melinus* Hubner, however, were quite common. Of *ines* Edwards, usually an abundant species, I have only taken four or five examples. But two specimens of *halesus* have been seen, both in the Santa Rita Mountains. Dr. Holland (Butt. Book, p. 239) states that the larva of *halesus* is said to feed on various oaks. The food-plant, however, is mistletoe, upon which I have found eggs. *T. crysalus* Edwards has not appeared as yet (July). I can see no need of retaining *citima* Hy. Edwards in our catalogues as a variety of *crysalus*, since it is only an individual variant. What Mr. W. G. Wright, in his Butterflies of the West Coast, Pl. XXVII, figs. 322, b and c, figures as *T. spinetorum* is certainly not that species, but one of the *Incisalias*, a group that badly needs thorough revising. *T. chalcis* Behr. seems to be a pure synonym of *sæpium* Boisduval.—[KARL R. COOLIDGE, Pasadena, Cal.]

CORRECTIONS TO MY PAPER ON THE TYPE-SPECIES OF THE NORTH AMERICAN GENERA OF DIPTERA.

BY D. W. COQUILLET, WASHINGTON, D. C.

The paper referred to in the above heading was submitted for publication on May 11, 1909. During the long interval that elapsed before its publication on August 4, 1910, several articles bearing more or less on this subject appeared in print, necessitating several changes. Some of these, of minor importance, were made in the proof-sheets, but others were too extended to permit of being incorporated in this manner. These and a few others to which my attention has been called, are brought together in the following notes. I desire to express my thanks to Messrs. C. W. Johnson and O. A. Johannsen for calling my attention to several of these errors and omissions.

Page 506, *Anaclinia* should be in italics, and after "Meigen" add, "Equals *Neuratelia* Rondani, 1856."

November, 1910

Page 509, under "*Archytas*," change "*Musca*" to "*Tachina*."

Page 513, under "*Besseria*," after "1870" add, "*Oedemasoma* Townsend, 1908."

Page 518, before "*Cassidamia*" insert the following :

"*Cartosyrphus* Bigot, Ann. Soc. Ent. France for 1883, p. 230, 1883, 11 species (as 12). Type, *Syrphus paganus* Meigen, the fifth species, by present designation."

Page 521, for the paragraph on *Cheilosia*, substitute the following :

"*Cheilosia* Panzer, Fauna Ins. Germ., Heft cviii, p. 14, 1809, 1 species. Type, *Musca laternaria* Muller (as *Syrphus rosarum* Fabricius). Syn., *Epistrophe* Walker, 1852; *Ischyrosyrphus* Bigot, 1882; *Lagenosyrphus* Mik, 1897."

Page 522, under *Chloromyia*, for "present designation" read "designation of Verrall, Brit. Flies, Vol. 5, 1909, p. 188."

Page 523, under *Chrysopilus*, change "*Musca*" to "*Rhagio*" and "Linnæus" to "Fabricius."

Page 532, under *Dialineura*, change "*Thereva* Latreille, 1796," to "*Psilocephala* Zetterstedt, 1838." (This error was due to following the Katalog Palaark. Dipt. and the published descriptions of the type-species. Verrall, in his British Flies, Vol. 5, 1909, p. 552, states that in this species the face is bare, and his statement is confirmed by an examination of a specimen in the National Museum.)

Page 534, *Dipalta* should be in italics, and at the end of the second line add, "Equals *Villa* Lioy, 1864."

Under *Dipsa*, second line, *bifurcata* is not now considered as being a synonym of *lutea*; change "*Lonchoptera*" to "*Musidora*," and "1803" to "1800"

Under *Docosia*, change "*Docosia valida* Winnertz," to "*Mycetophila sciarina* Meigen," and "second" to "first."

Page 539, *Epistrophe* should be in italics, and after "species" add, "Equals *Cheilosia* Panzer, 1809."

Page 544, *Exaireta*. (I do not agree with Verrall that this genus is a synonym of *Chorisops* Rondani, 1856. In the type species of the latter the palpi are minute and contained in the oral cavity, whereas in *spiniger* they are enormously developed, projecting half their length beyond the oral margin.)

Exechia should have been in black-face type.

Page 549, *Hartigia* should have been in italics, being preoccupied by *Hartigia* Schiodte, 1838. The valid name of the present genus is *Helicobia*.

Page 550, *Helicobia* should be in black-face type, and *Hartigia* in italics; the other two synonyms will be found under the latter genus.

Page 556, before *Isogaster* insert the following :

"*Ischyrosyrphus* Bigot, Bull. Soc. Ent. France for 1882, p. 68, 1882, 3 species. Type, *Musca glaucius* Linnæus, the first species, by original designation. Equals *Cheilisia* Panzer, 1809." (Our species intergrade completely with typical *Cheilisia*, that is, *Syrphus* of Verrall, etc.)

Page 657, before *Lambertia* insert the following :

"*Lagenosyrphus* Mik, Wien. Ent. Zeit., Vol. 16, p. 64, 1897, 4 species. Type, *Syrphus leiophthalmus* Schiner and Egger, the first species, by original designation. Equals *Cheilisia* Panzer, 1809."

Page 562, *Lonchoptera* should have been in italics : at the end of the third line add, "Equals *Musidora* Meigen, 1800."

Page 571, - under *Mulsantia*, after "designation" insert, "Not *Mulsantia* Reichenbach, 1853," and change "*Hartigia* Desvoidy, 1863," to "*Helicobia* Coquillett, 1895."

Before *Mutiloptera* insert the following :

"*Musidora* Meigen, Nouv. Classif., p. 30, 1800. No species. *Lonchoptera* Meigen, 1803, was a change of name. Type, *Lonchoptera lutea* Panzer. Syn., *Lonchoptera* Meigen, 1803."

Page 575, before *Neurigona* insert the following :

"*Neuratelia* Rondani, Dipt. Ital. Prod., Vol. 1, p. 195, 1856, 1 species. Type, *Mycetophila memorialis* Meigen. Syn., *Anaclinia* Winnertz, 1863."

Page 578, *Oedemasoma* should have been in italics; at the end of the second line add, "Equals *Besseria* Desvoidy, 1830."

Page 581, change "*Americana* Needham," to "*Sayi* Johnson (as *Tipula annulata* Say)."

Page 585, before *Parasymmictus* insert the following :

"*Parasteinia* Cockerell, CAN. ENT., Vol. 37, p. 361, 1905. Change of name for *Tetrachæta* Stein, preoccupied. Type, *Tetrachæta unica* Stein. Equals *Tetramerinx* Berg, 1898."

Page 588, before *Philia* insert the following :

Philhelius Stephens, Entom. (Newman's), Vol. 1, p. 2, 1841,* 2 species. Type, *Musca citrofasciata* DeGeer, by present designation. Syn., *Xanthogramma* Schiner, 1860."

Page 595, before *Prodiplosis* insert the following :

"*Prodiamesa* Kieffer, Gen. Ins., Dipt., Chiron., p. 37, 1906, 7 species. Type, *Diamesa præcox* Kieffer, the last species, by original designation."

Page 597, under *Psilocephala*, after designation add, "Syn., *Dialineura* Rondani, 1856."

Under *Psilotanytus*, change "7" to "3"; "*bellus* Loew," to "*occidentalis* Coquillett," and "first" to "second" (the other four species were doubtfully referred to this genus, according to the two footnotes—moreover, *bellus* belongs to the genus *Procladius*).

Page 600, *Rhynchocephalus*. (Verrall, in his British Flies, Vol. 5, 1909, p. 445, separates this genus from *Nemestrina* by a character not used by previous writers—the presence of a vein between the third and fifth posterior cells in the latter genus and its absence in the former; but the one employed by Rondani, Schiner and later continental writers—the multiplicity of accessory cells in the wings of *Nemestrina*, and their absence in those of the other genus—is a far better character.)

Page 610, under *Symphoromyia*, change "1 species" to "3 species," and after "Meigen" add, "the first species, by original designation."

Page 611, under *Syrphus*, change "*Epistrophe* Walker," to "*Cheilosia* Panzer."

Page 613, under *Tetramerinx*, after "preoccupied" add, "*Parasteinia* Cockerell, 1905."

Page 614, under *Thereva*, strike out "Syn., *Dialineura* Rondani, 1856."

Page 616, before *Trichomyia* insert the following :

"*Trichocladius* Kieffer, Ann. Soc. Sci. Bruxelles, Vol. 30, p. 356, 1906, 1 species. Type, *Orthocladius fissicornis* Kieffer."

Page 619, under *Willa*, after 1869 insert, "*Dipalta* Osten Sacken, 1877."

Page 620, *Xanthogramma* should be in italics; after 91 add, "Equals *Philhelius* Stephens, 1841."

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