



Acta Zoológica Mexicana (nueva serie)

ISSN: 0065-1737

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Instituto de Ecología, A.C.

México

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Contribution to a History of Mexican Dipterology Part II.- The Biología Centrali-Americana
Acta Zoológica Mexicana (nueva serie), núm. 88, 2003, pp. 143 - 232
Instituto de Ecología, A.C.
Xalapa, México

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CONTRIBUTIONS TO A HISTORY OF MEXICAN DIPTEROLOGY. PART II.- THE *BIOLOGIA CENTRALI-AMERICANA*

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RESUMEN

En esta segunda contribución a la historia de la Dipterología mexicana, se presentan datos generales de la obra *Biología-Centrali Americana*, de sus autores, colectores y de los viajes efectuados para la obtención del material. Específicamente con respecto a Diptera, se incluyen algunos aspectos de la vida y obra de los contribuidores de este trabajo. Aquí se enlistan todos los nombres de especies de los Diptera mexicanos propuestos por Karl Robert Romanovitch Baron von den Osten Sacken (78 especies), Samuel Wendell Williston (200 especies), John Merton Aldrich (47 especies), William Morton Wheeler y Axel Leonard Melander (18 especies), y Frederik Maurits Van Der Wulp (610 especies). Quedan incluidas en total 953 nombres específicos de las siguientes 41 familias vigentes (en orden filogenético): Tipulidae: 16, Bibionidae: 2, Ditomiyidae: 1, Keroplatidae: 2, Mycetophilidae: 1, Culicidae: 1, Ceratopogonidae: 2, Tabanidae: 12, Pantophtalmidae: 1, Rhagionidae: 7, Stratiomyidae: 26, Therevidae: 1, Mydidae: 3, Apioceridae: 1, Asilidae: 59, Acroceridae: 3, Nemestrinidae: 1, Bombyliidae: 72, Empididae: 20, Dolichopodidae: 48, Platypezidae: 1, Syrphidae: 54, Pipunculidae: 5, Conopidae: 6, Micropezidae: 12, Tanypezidae: 1, Psilidae: 2, Otitidae: 12, Platystomatidae: 8, Tephritidae: 39, Richardiidae: 5, Sciomyzidae: 10, Lauxaniidae: 1, Heleomyzidae: 3, Scatophagidae: 4, Anthomyiidae: 11, Muscidae: 40, Calliphoridae: 1, Sarcophagidae: 44, Tachinidae: 412, Hippoboscidae: 3. La referencia original, la localidad-tipo, el museo o colección donde el material se encuentra depositado, el estado taxonómico actual y referencias adicionales son provistos para cada especie.

Palabras Clave: Historia, México, Diptera, Taxonomía.

ABSTRACT

In this second contribution to the history of Mexican Dipterology, general remarks of the *Biología-Centrali Americana*, the authors, the collectors and their trips are presented. Dealing specifically with Diptera, some aspects of the life and works of the contributors to this work are included. Here are listed all the Mexican Diptera species-names proposed by Karl Robert Romanovitch Baron von den Osten Sacken (78 species), Samuel Wendell Williston (200 species), John Merton Aldrich (47 species), William Morton Wheeler and Axel Leonard Melander (18 species), and Frederik Maurits Van Der Wulp (610 species). Included are a total of 953 specific names of the following 41 current families (in phylogenetic order): Tipulidae: 16, Bibionidae: 2, Ditomiyidae: 1, Keroplatidae: 2, Mycetophilidae: 1, Culicidae: 1, Ceratopogonidae: 2, Tabanidae: 12, Pantophtalmidae: 1, Rhagionidae: 7, Stratiomyidae: 26, Therevidae:

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1, Mydidae: 3, Apioceridae: 1, Asilidae: 59, Acroceridae: 3, Nemestrinidae: 1, Bombyliidae: 72, Empididae: 20, Dolichopodidae: 48, Platypezidae: 1, Syrphidae: 54, Pipunculidae: 5, Conopidae: 6, Micropezidae: 12, Tanypezidae: 1, Psilidae: 2, Otitidae: 12, Platystomatidae: 8, Tephritidae: 39, Richardiidae: 5, Sciomyzidae: 10, Lauxaniidae: 1, Heleomyzidae: 3, Scatophagidae: 4, Anthomyiidae: 11, Muscidae: 40, Calliphoridae: 1, Sarcophagidae: 44, Tachinidae: 412, Hippoboscidae: 3. The original reference, type-locality, depository museum or collection, current taxonomic status of each species-names and additional references are given.

Key Words: History, Mexico, Diptera, Taxonomy.

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Previously to this work, Papavero and Ibáñez-Bernal (2001) published about the entomologists and their works on Mexican Diptera before the publication of the "*Biología Centrali-Americana*", presenting as well the list of Diptera taxa collected in this country and described by them. In this second part of the History of Mexican Dipterology, the specific scope is to present some historical data of the contributors to the great work carried out by Godman and Salvin, resulting in the publication of the "*Biología Centrali-Americana*", contributing the list of all Mexican Diptera species described in it and the actual taxonomic status. Both, the first part and the present work get together all the Diptera taxa described before the XX century based in specimens collected in Mexico.

1. GENERAL REMARKS

Osbert Salvin, the second son of Mr. Anthony Salvin, an eminent architect, was born at Finchly in 1835 and educated at Westminster and Cambridge. He developed a very early taste for natural history.

Frederick DuCane Godman, third son of Joseph Godham, of Park Hatch, Surrey, was born in January 1834, and at the age of ten went to Eaton, but three years later a very severe attack of what was then called low fever necessitated his removal, and for some years he was unable to work at all. When his health was sufficiently reestablished, he received instructions from tutors until he was eighteen years old, when he then made a trip to the Mediterranean and the Black Sea. During the time spent at home he interested himself in natural history, paying special attention to British mosses and ferns.

In 1853 Godman entered Trinity College, Cambridge, as an undergraduate, and Salvin in the following year went to Trinity Hall, of which college he became a scholar; he graduated as a Senior Optime in the mathematical tripos and was afterwards made an Honorary Fellow. With similar tastes, it was only natural that they met and soon became fast friends, thus forming that close intimacy which only terminated with Salvin's death on June 1st, 1898.

During their College days Salvin and Godman made frequent expeditions together to the fens and other places in the neighborhood of Cambridge, to collect birds' eggs and Lepidoptera. They also spent their leisure hours in Baker's shop, a well known bird stuffer in the Trumpington Road, skinning and setting up birds- an experience which they found of great service afterwards when in Central America and on other expeditions.

In 1857, Salvin made a bird-nest expedition with Rev. H. B. Tristram and Mr. W. H. Simpson through Tunisia and eastern Algeria, in which Godman was to have joined them, but a hunting accident laid him up for some weeks and prevented him from accompanying them. Later in the year when Godman was sufficiently recovered from his accident, he went with his brother Percy to Bodö on the coast of Norway; there they remained for some weeks exploring the surrounding country. Taking the steamer northward to the Atlen River, they crossed Lapland on foot to Haparanda, on the Gulf of Botnia. Before returning home they visited Stockholm, St. Petersburg and Nijni-Novgorod.

In the Autumn of 1857, Salvin paid his first visit to Central America, in company with Mr. George Ure Skinner, a collector of birds and orchids, which he had brought from that country on previous expeditions. Salvin undertook the journey at the request of Messrs. Price & Co., to examine and report upon the nuts of a palm which it was thought might be used in the manufacture of candles. The palm-nuts, however, proved to be useless for practical purposes, and Salvin spent the remainder of his time traveling through the country and making a collection of birds and insects. He reached Belize in December 1857, and after spending a few days there, proceeded down the coast to Izabal and thence by easy stages to Guatemala City, making Dueñas, 30 miles southwest to the capital, his headquarters for six months. Salvin made two excursions to the Pacific Coast region and one to the lake of Atitlán in the "Altos". Leaving the country towards the end of June 1858, he returned to England via San José and Panama.

What he saw, however, on this expedition, so whetted his appetite that he returned again to Guatemala in the spring of 1859, with the sole object of studying natural history. He visited Dueñas and collected in the neighborhood for some months. In October he went to San Gerónimo, Cobán, and other places in Vera Paz, returning to Dueñas about the end of the year. In March 1860, he was again in Alta Vera Paz, at Cobán, Lanquin, etc., and left home, via Belize, in the following month.

In August 1861, Godman joined Salvin on his third expedition to Guatemala, and, after spending three weeks in Jamaica en route, they landed at Belize; thence taking their passage in a coasting schooner they arrived at Izabal on the Golfo Dulce. There they remained a few days, making preparations for their journey

engaging Indians and mules to transport themselves and their baggage to the interior.

Crossing the Mico range of mountains, they spent a few days at Quirigua. From Quirigua they again took the mule track through the valley of the Motagua river to Zacapa and thence to Guatemala City. They spent a day or two at the capital and then proceeded to Dueñas, where they remained some weeks at the house of a Mr. William Wyld, a friend of Salvin's. Their time was devoted to collecting, chiefly in the high forests of the Volcán de Fuego, the peak of which they ascended, and Godman made a separate expedition to Escuintla, in the Pacific Coast region.

After their stay in Dueñas, they retraced their steps to the capital, and crossing the Chuacus range into the plain of Salama, they took abode at the Hacienda de San Gerónimo. There they resided for some weeks, finding several species of birds and insects which they had not previously obtained. From San Gerónimo they went to Cobán, and, after spending some time collecting in the neighborhood, they visited Cubilquitz and Choctum in the low damp forest of Alta Vera Paz. At Cubilquitz, Godman experienced a sharp attack of fever, which obliged him to remain for some days at Cobán to recover, and prevented him accompanying Salvin on his long and arduous journey on foot to Petén.

When Godman had recovered sufficiently, he returned to San Gerónimo and then went to Buenaventura, on the upper waters of the Motagua river, called the Rio Grande, where he employed Indians to poison some nine miles of the water in order to make a collection of the fish.

On his return to the capital he journeyed to the Alotepeque silver-mines in the company with the manager, and thence to Copán, Honduras, where, after spending a couple of days in examining the interesting ruins, he proceeded via Zacapa to Izabal, and there met Salvin on his way back from Belize. There they again parted, Godman returning to England, while Salvin started for Dueñas and the interior, passing through the "Altos", staying at Totonicapán and Quetzaltenango, and making expeditions to the Costa Grande, Retalhuleu, and the lagoons of the Pacific Coast to Huamuchal, close to the Mexican frontier. Salvin returned home early in 1863.

In 1865 Salvin married Caroline, daughter of J. Whitaker Maitland, of Essex, and they lived for some years in South Kensington, which became for a time the headquarters of the Godman and Salvin museum. Although both Salvin and Godman had jointly collected ever since their undergraduate years, it was not until the material was housed at South Kensington that they really did serious work together; but from then on they spent the greater part of the week in London arranging their collections, publishing papers on them, and attending the meetings of various scientific societies of which they were members.

Salvin's fourth and last visit to Guatemala was made in company with his wife. They sailed in a Royal Mail steamer in April 1873, stopping at St. Thomas and Jamaica. Then crossing the Isthmus of Panama, they reached the city of Guatemala early in June. Proceeding thence to Dueñas, which became their headquarters for some months, Salvin occupied himself in collecting in the forest of the mountain slopes. Together they ascended the crater of the Volcán de Fuego, and a few days later that of Acatenango. Leaving Dueñas for Atitlán they made the ascent of the peak from Santa Lucía on January 17th. Subsequently they visited Mazatenango, the coffee estate of Las Nubes (Cerro Zunil), Quetzaltenango, the Lake of Atitlán, Sololá, Pantaleón, and San Gerónimo, and after a short stay at the last-named place the journey was continued to Cobán. Having revisited the capital, they left Guatemala in March 1874. Again crossing the Isthmus of Panama, they sailed for the United States and visited the museums of New York, Boston, Philadelphia and Washington, and made the acquaintance of the leading scientific people, returning to England on June 4, 1875.

In the Autumn of the same year Salvin was appointed to the curatorship of the Strickland collection of birds at Cambridge, which necessitated his residence at the University. On his giving up the house in South Kensington in 1873, it had become necessary to find quarters for their museum and library, which now occupied considerable space, and they took for this purpose a house in Tenderden Street, Hanover Square, to which they were transferred. The building being rather larger than they required, they shared it with some ornithological friends.

During his stay in Cambridge, Salvin came frequently to Tenderden Street and worked at the collections with Godman, and continued doing so until the death of his father in 1880, when he succeeded to his property at Fenhurst, Sussex, where he afterwards resided, continuing, however, his work in London as before. In the Autumn of 1878 they moved their museum and library to 10 Chandos Street, Cavendish Square, and there they remained till after Salvin's death. In 1907 the house at Chandos Street was given up and the library transferred to 45 Pont Street, S. W., while the collections still remaining in their possession were handed over to the British Museum.

In addition to the material obtained during their various visits to Central America and the specimens sent to them by the natives they had trained, they found it necessary, for the sake of comparison, to acquire a more thorough knowledge of the South American fauna, and, with that view, employed various collectors, whose names are recorded in the body of the work, to visit special localities in Colombia, Ecuador, Peru, Guiana, and other places in South America.

Meanwhile, more specimens were obtained from specialized collectors; some of them were commented upon in previous parts of this series, for example, Sumichrast, Bilimek, Saussure, Sallé, and Boucard (Papavero and Ibáñez-Bernal,

2001). Other collectors are H. H. Smith (see below), and the following, about whom very little is known: Morrison (Sonora), Rogers (Costa Rica), Janson (Chontales, Nicaragua), Forrer (N. W. Mexico, Tres Mariás Island; see Escalante, 1988 and Kellogg, 1932), Höge (who collected in all Mexican States, Tamaulipas and Yucatán excepted; see Kellogg, 1932; Selander and Vaurie, 1962; Smith and Smith, 1973), Blancaneau (British Honduras), Stoll (Antigua), Schumann (Mexico). G. C. Champion explored Central America from March 16, 1879 to March 23, 1883; a very detailed itinerary of his travels was given by Godman (1915: 46-54; the same appeared in *Entomol. News* 1907: 46-54). T. Belt explored Nicaragua (1868-1872); the relation of his travels appeared in 1888.

Godman and Salvin continued to receive consignments from those naturalists for several years without having any idea of publishing a connected account of the results, and a very large amount of material, especially amongst the birds and insects, was thus accumulated. It was not till the year 1877 that it was suggested that the '*Biologia*' should be undertaken, and three years later (September 1879) the first part appeared. In the meantime, various collectors were sent by them to Guatemala and other parts of Central America.

Their method of publication was to bring out six quarto parts a year, each part to contain twelve sheets made up of several subjects with six colored plates, the plates and letterpress so numbered and paged that parts might ultimately be broken up and bound together in their respective volumes when completed. In this way it was possible to keep several subjects in progress at once, and the plan answered well. They were, however, unable to adhere to the original scheme of completing the work in 60 parts, owing to the ever-increasing amount of material received from their collectors, an amount so great that 215 parts of zoology alone have been required, the dates of issue extending over a period of 36 years.

On arrival in England, the various consignments were opened, every specimen labeled with its exact locality, and the name of the collector attached. The animals were then sorted and handed over to specialists to be worked out.

In the Autumn of 1887, having been ordered abroad for the benefit of his health, Godman decided to visit Mexico, as he found himself deficient in material from that country than from farther south. Crossing the Atlantic to New York, he took the train to Mexico City, then a six days journey, entering the Mexican Republic at El Paso (3700 ft). The early part of the journey was passed during the night, but next morning it was evident that a considerably higher elevation had been attained, and on reaching Zacatecas (8000 ft), the aspect of the country was very desolate and unpromising for natural history purposes, and continued much the same for some distance, but improved a little near the capital. After spending a few days in Mexico City in making the necessary preparations, he was joined by W. B. Richardson, an American bird-collector, and with him started for the Atlantic coast. The first part

of the journey, still on the high plateau, was through fields of 'agave'. In about six hours they reached Esperanza, in the state of Puebla, at the eastern edge of the plateau; there the train entered the wonderful gorge by which it descended to Orizaba, Córdoba, Atoyac and Veracruz. The scenery at once changed, the vegetation becoming luxuriant on entering the region of the rainfall.

At Orizaba they spent a few days collecting, and Godman was there joined by Mr. and Mrs. H. H. Smith, who went with him as far as Atoyac, where they remained for some time before crossing the western side of Mexico. Leaving the Smiths at Atoyac, Richardson and Godman continued their journey to Veracruz. The land gradually sloped down to the Atlantic and forming a savanna or plain of sandy ground, sparsely covered with grass and shrubs. After spending a few days collecting, chiefly to the north of the town, they took the mule tram to Jalapa, which being on higher ground reaps the benefit of the rainfall and produces far more luxuriant vegetation. At this place he engaged Mateo Trujillo, a half-breed Indian, who accompanied him during the greater part of the time he was in Mexico and proved a very skillful collector. They made an excursion to Misantla and Papantla, on the low ground near the coast at the foot of the mountain range, which proved to be very good collecting ground and added considerably to the insects. On leaving Misantla they returned to Jalapa and over to the Cofre de Perote to Esperanza, and thence by train to Mexico City. From the capital, Godman made two expeditions, the first in company with Mr. Flohr to the pretty town of Cuernavaca, and thence to the caves of Cacahuamilpa, where he hoped to have found some blind insects. The second and also interesting expedition was to Morelia and lake Pátzcuaro.

On returning to the capital, Godman next visited Yucatán, crossing the Gulf of Campeche from Veracruz to Progreso by steamer, thence to Mérida by train, where the railway then ended. His first object was to visit the naturalist Dr. Gaumer (Gorge Franklin Gaumer; see Barnhart, 1965; Bartlett, 1832; Ewan and Ewan, 1981; Godman, 1915; Hemsley, 1887; Knobloch, 1983; Rzedowski and Rzedowski, 1989; Smith and Smith, 1973), who accompanied him to the ruins of Ticul and Uxmal, a distance from Mérida of about forty miles, which journey was performed on horseback. Leaving Yucatán he went back to Mexico City, where he was joined by Mr. and Mrs. Elwes, and together they went again to Jalapa, thence, riding across the county of Córdoba, a journey of three days, and obtaining magnificent views of the Volcano of Orizaba, with its snow-clad peak. They continued their journey to Puebla and Mexico City and thence to Amecameca at the foot of the volcanoes Iztaccihuatl and Popocatepetl; the latter was ascended as far as the pine belt, where Godman found many interesting insects. They left Mexico in the spring of 1888, having been absent from home about five months and returned to England via New York.

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For several years after Godman's return from Mexico, Salvin and Godman continued diligently to work out the material, and the ever-increasing amount sent over by their collectors. Salvin's failing health finally obliged him to relax his efforts, and though he still came to London, he was unable to take the same active part in the work and the difficulty of concentrating his attention on any one subject became increasingly great. He died suddenly at Hawksfold, Fernhurst, Sussex, on June 1st, 1898, leaving Godman alone to complete the '*Biologia*'. At the time of Salvin's death, 141 parts of zoology (completing 13 volumes), the whole of botany (5 volumes) and nine parts of archeology had been issued; since then 74 parts (142-215) of zoology, completing 39 more volumes and 8 parts of archeology were required to bring those subjects to a conclusion. Godman took up his pen again, and with G. C. Champion finished several parts.

In 1906, the collections studied to that epoch were handed over to the British Museum of Natural History, and included:

| | |
|----------------------------------|---------------------------------------|
| Coleoptera | 85 920 (in a total of 18 029 species) |
| Lepidoptera (Rhopalocera): | 17 829 |
| Lepidoptera (Heterocera): | 12 883 |
| Diptera | 17 525 |
| Hymenoptera | 10 004 |
| Rhynchophora | 22 793 |
| Staphilinids and aquatic beetles | 9 474 |
| Odonata | 3 000 |
| Homoptera | 5 509 |
| Parasitic Hymenoptera | 6 293 |

From 1906 onwards, the remaining collections have been handed over to the British Museum as soon as the enumeration of the species was completed; that of the Coleoptera was finished in 1911. Their own general collections of the butterflies probably included nearly 100,000 specimens, and the beetles alone from Mexico and Central America perhaps double that number. Besides these, a considerable number of mammals, reptiles, fish, etc., of which no account was kept, was presented to the British Museum (Godman, 1915:1-12).

* * *

The Diptera portion of the '*Biologia Centrali-Americana*' appeared in 3 volumes and one supplement (to Vol. I). In volume I, published from 1886-1887, Baron Osten Sacken (see Part 2) alone contributed 24 families; in the supplement, contributions were made by Williston (see Part 3), Aldrich (see Part 4) and Wheeler and Melander (see Part 5). In this first volume and its supplement, 997 species are enumerated, 330 of which are described as new. The six colored plates illustrate 120 species. Volume II (1888-1900) was entirely written by Wulp (see Part 6) and deals with the calyptrates. Almost all the specimens were collected by H. H. Smith. The volume was left incomplete after the death of the author in 1899, and the acalyptrates and the Aschiza were not published. Pages 429-489 (Hippoboscidae and supplement) were published after Wulp's death, although the new species of Calyptratae had already been described by him in the '*Tijdschrift voor Entomologie*' for 1892. 1905 species were named by the author, of which 585 were treated as new. The 13 colored plates figure 287 species. Volume III treats the Aschiza, and was written by Williston (see Part 7). Pages 1-89 were published from 1891 to 1892; pages 93-127 and the Index for the three volumes were published in 1903. 325 species are listed, 67 of which are described as new. The two colored plates show 29 species (Godman, 1915: 77-78).

Selender and Vaurie (1962) published an excellent gazetteer for the '*Biologia*' localities.

* * *

To finish this part, we present biographical data about the famous collector H. H. Smith.

Herbert Huntingdon Smith was born in Manlius, New York, on January 21, 1851. He studied at Cornell University from 1868 to 1872. In 1870, while still a student, he came for the first time to Brazil, in the Morgan Expedition. The objective of the expedition was to secure "a large quantity of specimens of all departments of nature" (Hartt, 1874), but was mainly geological, the director of the expedition, which was financed by a certain Mr. Morgan, of Aurora, New York, was Prof. Charles Frederick Hartt, a well known geologist; as associates came Prof. A. N. Prentiss, botanist; several students also came to receive a background in natural history: W. S. Barnard, C. J. Powers, P. P. Stanton, P. M. Johnson and D. B. Wilmot. Two other students, H. H. Smith and Orville A. Derby were to become famous, one in entomology and the other in Brazilian geology. T. B. Comstock came to study geology and to be the expedition's photographer. H. Kendall was the director's secretary.

In 1874, Smith returned to Brazil in order to collect and study the Amazonian fauna. He spent 2 years in the neighborhood of Santarém, in the State of Pará, and

later spent one year exploring the northern tributaries of the Amazon River, as well as the river Tapajós. Afterwards he stayed four months in Rio de Janeiro.

Back in the United States, he was commissioned by Scribner's Magazine to write a series of articles about Brazil. For this purpose he undertook two more travels to that country, studying the industries, the political and social conditions, and investigating the problem of the periodical droughts of the state of Ceará. In one of those trips he was accompanied by J. Wells Champney, employed to illustrate his articles. One of the results of those trips was the publication of '*Brazil, the Amazons and the Coast*' (1879).

On October 5, 1880, Smith married Miss Amelia Woolwirth, from Brooklyn, New York, who was also interested in natural history and had a great skill in the preparation of specimens; she became an excellent taxidermist and a good preparator of insects.

Smith came with his wife again to Brazil, staying from 1881 to 1886. In May 1881 they spent some months in Belém (Pará), 10 days in the state of Pernambuco and 6 months in Rio de Janeiro, where they were encouraged in their collecting efforts by the Emperor, D. Pedro II. From Rio, by ship, they visited the ports of Santos in São Paulo, Paranaguá in Paraná, Florianópolis in Santa Catarina and then São José do Norte and Rio Grande in Rio Grande do Sul. Proceeding overland via Pelotas, Porto Alegre, Vimão, Caí, Jacuí, São João do Montenegro, they returned to Porto Alegre, crossed the Rio São Gonçalo, and went once more to Pelotas. Visiting other localities, they went back to Porto Alegre, Rio Grande, whence they embarked for Montevideo and then to Buenos Aires. Ascending the Rio Paraná, they visited Rosario and Corrientes in Argentina, and, proceeding up the Rio Paraguay, touched Humaitá, Asunción, and Concepción in Paraguay, reaching the village of Corumbá, in Mato Grosso, Brazil. Navigating the rivers São Lourenço and Cuiabá, they reached the town of Cuiabá and finally Chapada dos Guimarães. Smith and his wife remained in Chapada from 1882 to 1886, leaving only on September 6, for the United States.

Chapada has remained, since that time, one of the most famous type-localities of Brazil.

During his trips, Smith wrote a series of articles about his results and observations in the several regions in which he was traveling for one of the Rio newspapers - The '*Gazeta de Notícias*'. These articles were translated into Portuguese by Capistrano de Abreu. The first was published on July 21, 1886, and the last on October 20, 1887. Later on, the articles were united into a small book ('*Do Rio de Janeiro a Cuyabá, notas de um naturalista*', 1922).

The collections obtained during that trip were partly acquired by F. D. Godman (and are now in the British Museum), and also by W. J. Holland, who subsequently bought the greater part of the Lepidoptera, and finally by the Carnegie Museum,

which has obtained the greatest portion of all the insects, some 30,000 species in a total of 300,000 specimens. A few specimens are also in the American Museum of Natural History, New York, being mostly types described from Chapada by Williston.

In 1889, Smith worked in Mexico, collecting for F. D. Godman. These insects were to be used for the '*Biologia Centrali-Americana*'.

From 1889 to 1895 he was employed by the West Indian Commission of the Royal Society, to collect in Trinidad, St. Vincent, as well as in the Windward Islands.

He was then appointed curator of the Carnegie Museum.

From 1898 to 1902, he collected in Colombia for the American Museum of Natural History (New York). The collections were made during 3 and a half years, from March 1898 to September 1901. Smith's comments about Colombia were published by Allen (1904: 408-414).

On his return to the United States, Smith resumed the curatorship of the Carnegie Museum, but later on moved to Wetumpka, Alabama, to collect molluscs. In 1910 he was appointed curator of the Alabama Museum, remaining in that position for almost a decade. He died on March 1919, in Tuscaloosa, Alabama, struck by a train.

His collections made in Brazil (especially in Mato Grosso) comprised 5,000 species of Hymenoptera (studied by Ashmead, Cresson, and others), 2,500 of Diptera (mostly described by Williston), 2,600 of Lepidoptera (studied by Godman and Druce), 23,000 of Coleoptera (studied partly by Champion, but mostly left unstudied), 3,300 of Hemiptera (studied by Uhler and Distant), 600 of Orthoptera, 300 of Neuroptera (*sensu lato*), 2,000 of Arachnida and 250 of Crustacea (Holland, 1919a, 1919b).

2. THE SPECIES DESCRIBED BY OSTEN SACKEN

Karl Robert Romanovitch, Baron von den Osten Sacken, commonly known as C. R. Osten Sacken (Fig. 1), was born in St. Petersburg on August 21, 1828. He began at the early age of eleven to take an interest in entomology. It was during a temporary residence with his mother in Baden-Baden (1838-39) that he met Joseph Nikolaievitch Schatilloff, who gave him his first instructions in collecting Coleoptera.

Later on, in St. Petersburg, where he received his education and entered (in 1849) into the service of the Imperial Foreign Office, he made collections in all orders of insects, except Lepidoptera.



Figure 1

Karl Robert Romanovitch, Baron von den Osten Sacken. From Osten Sacken (1903-1904).

In 1856, he was appointed Secretary of the Russian Legation in Washington and started for his destination in the first day of April of that year. During his journey, which lasted two months, he made the acquaintance of the principal entomologists and zoologists in the cities he visited. At Königsberg, Prussia, he met Dr. H. A.

Hagen, and formed an acquaintance which ripened later into a lifelong friendship and became of great importance for American dipterology. Some of the German entomologists, e. g., Klug and Ruthe (Berlin), Kiesenwetter (Dresden), Schiner, Brauer, Kolenati (Vienna), C. A. Dohrn (Stettin), he had already met during an earlier journey in 1852-53. In Berlin he had a long and interesting interview with Alexander von Humboldt in his house, but the conversation had little to do with entomology. Although eighty-seven years old at that time, and much bent by age, Humboldt was remarkably active, both physically and mentally.

In the course of his further journey, Osten Sacken visited Winnertz at Crefeld, Baron de Selys Longchamp, Candèze and other Belgium, and Wulp and Snellen van Vollenhoven in Holland. In London he made (and in part renewed) acquaintances with the principal entomologists, some of whom he remembered having met during a visit to England in 1852 (Westwood, Stainton, Francis Walker, Adam White, etc.). In the beginning of June he embarked at Liverpool on the steamer 'Arabia' and landed in New York after a passage of thirteen days.

Osten Sacken had corresponded with Herman Loew, the great German dipterologist, as early as 1850 or 1851, when he was still living in St. Petersburg. The tone of Loew's letters not having been encouraging, the correspondence was not continued. In 1856, Loew heard from Hagen of Osten Sacken's appointment as Secretary of the Legation in Washington, and suddenly displayed the greatest eagerness to renew their correspondence. He wrote Osten Sacken (Meseritz, April 11, 1856) a most urgent letter, expressing the hope that Osten Sacken would send him American Diptera, and complaining of his isolation, principally caused by his quarrel with C. A. Dohrn, President of the Stettin Entomological Society, who, as Loew contended, had him 'systematically cut off from all the sources of supply of material for work, which he formerly received through the medium of the Society'. Loew, on that occasion, sent Osten Sacken his recently published paper on Bombyliidae and concluded his letter with a characteristic flourish: *'It is a pleasure for me to think that, during the probably tedious Atlantic passage, or perhaps even on American soil, you will cast a glance on the lines of my composition, and recall my request that you should be for me a Count von Hoffmannsegg, while, in truth, I am not immodest enough to compare myself with Master Meigen'*.

Osten Sacken remained in Washington until 1862; in that year he was appointed Consul General of Russia in New York, which thus became his residence between 1862 and 1871. He resigned his post in 1871 and made several journeys to Europe and back, until, in the autumn of 1873 (this time as a private citizen), he again settled in the United States, where he remained till 1877. These 21 years were, as regards entomology, principally devoted, in collaboration with Loew, to the task of working up the Diptera of North America, north of the Isthmus of Panama. A great

deal of this time was spent in acting as a purveyor of material for Loew to work upon, and as a translator and editor of his manuscripts.

Osten Sacken's first task upon arriving in Washington was to compile a '*Catalogue of all previously described species of the Diptera of North America*'. It was accepted for publication by the Smithsonian Institution and appeared in 1858.

During the winter of 1857-1858 he visited Cuba, where he spent 5 weeks, and returned by way of New Orleans, Montgomery (Ala.), Savannah and Florida. Although the season was not the best for collecting, he brought home many specimens, especially from Florida. In Havana he made the acquaintance of Prof. Felipe Poey.

More than two years passed after Loew's letter, during which Osten Sacken heard nothing from him although he had written him several times, and had sent him a first consignment of Diptera, as well as a copy of the Catalogue of North American Diptera, which he had published. The explanation of this mystery came in a letter, dated from Meseritz, October 1, 1858. Loew, probably in consequence of some vague association in his mind between the United States and the Declaration of Independence, had directed his letters to the Russian Legation in Philadelphia, without having noticed that Osten Sacken's letters were always addressed from Washington. After a long interval the letters were returned to him by the Post Office, and he had the mortification of sending them back to Osten Sacken with a doleful explanation.

Finally they came to the following agreement: Osten Sacken promised to send to Loew as much material as he could, on the condition, however, that he should consider the collection thus gradually accumulating in his hands not as his property, but as a trust. Osten Sacken's purpose was by this means to form a collection of North American Diptera containing the type-specimens described by Loew, as well as specimens determined by him from earlier authors, and, as the case might be, an abundant supply of as yet undescribed undetermined specimens. Such a collection, Osten Sacken conceived, would sooner or later be brought back to the United States to form a solid foundation for the further study of the American fauna. This scheme enabled him to receive without stint the numerous contributions in collections and specimens which were most generously put at his disposal by different collectors during his long residence in the United States.

This scheme came to a successful conclusion, principally in consequence of the generous intervention of Louis Agassiz. In 1877 this collection contained about 1350 species described by Loew, 330 species described by earlier authors and a large number of undescribed species, forming a total of about 3 000 species, which came back to the United States and was safely housed in the Museum of

Comparative Zoology in Cambridge, Mass. At the same time, Loew received from the Museum a liberal remuneration for his work on the collection.

In consequence of his arrangement with Loew, Osten Sacken's principal efforts after 1856 consisted in procuring him materials to describe and in translating and editing his manuscripts. It required some abnegation on Osten Sacken's part to impose himself as a laborious (and comparatively subordinate) middle-man, occupied as he otherwise was with his official and social duties.

From that arrangement resulted Loew's three volumes '*Monographs of North American Diptera*' (1862, 1864, 1873).

In 1871, Osten Sacken resigned his post of Consul General of Russia in New York and remained part of the following two years in Europe. In September 1873, he returned to the United States and spent the intervals between this year and 1875 principally working on the Diptera of the Museum of Comparative Zoology, where he had deposited his collections during his absence, and in preparing materials for the projected new edition of his Catalogue of North American Diptera. Between December 1875 and September 1876, he made a journey to California, the Sierra Nevada and the Rocky Mountains, whence he brought back considerable collections. A portion of the collection of Californian Diptera was worked up by him in his '*Western Diptera*' (1877), after which publication he bade farewell (and this time for good) to the United States, and sailed in June for Europe.

One of the first duties he had to fulfill, after his return to Europe, was to go to Guben, the residence of Loew, and to secure the shipment to the United States of the large collection of North American Diptera which for the last twenty years had been accumulating in his hands: an arduous and risky business for him to undertake, but one which was nevertheless successfully accomplished. The whole collection arrived safely in Boston (in the autumn of 1877) and was deposited in the Museum of Comparative Zoology. With this transfer, and the almost simultaneous publication of the second edition of his Catalogue of North American Diptera (1878), the principal object of his entomological labor in the United States was fulfilled.

After returning to Europe, Osten Sacken felt his labors in descriptive entomology were practically at an end. He continued to publish papers on the large phases of the classification, on insect habits, historical researches on entomology, up to a few years before his death. In 1886-87 he published 216 pages of volume I of the Diptera in the '*Biologia Centrali-Americana*'. In 1903 he published his '*Record of my life in Entomology*', which gives not only a review of his own activity, but includes critical estimates of several contemporary entomologists, and much historical matter on dipterology in general. For his European residence he had selected Heidelberg, where he died on May 20, 1906 (Aldrich, 1906; Alexander,

1969; Anonymous, 1903, 1906; Bethune, 1906; Bogdanov, 1891; Bryan, 1906; Carpenter, 1945; Coquillett, 1904; Dos Passos, 1951; Essig, 1931; Johnson, 1906; Korschelt, 1907; Lameere, 1906; Lindroth, 1973; Mallis, 1971; Musgrave, 1932; Osborne, 1937, 1946; Papavero, 1973; Semenov Tian-Shansky, 1916; Smith, 1910; Smith K., 1978; Verrall, 1906, 1906a; Weiss, 1906; Weg, 1907).

The following Mexican species were described by Baron Osten Sacken in the "*Biologia Centrali-Americana*" (1886):

1. *Teucholabis molesta*, p. 6. "Mexico, Orizaba (Sumichrast), 4 ♂♂ in Prof. Bellardi's collection". Now in *Teucholabis (Teucholabis)* (Alexander and Alexander, 1970: 163) (Tipulidae).
2. *Teucholabis gracilis*, p. 7. "Mexico, Orizaba (Sumichrast), 2 ♂♂ in Prof. Bellardi's collection in Turin". Now *Teucholabis (Teucholabis)* (Alexander and Alexander, 1970: 161) (Tipulidae).
3. *Paratropesa praeusta*, p. 8. "Mexico, Jalapa (Bilimek), Orizaba (Sumichrast), 1 ♂ and 1 ♀ in the Museum of Vienna; 1 ♂ in Bellardi's collection". Now *Teucholabis (Paratropesa) praeusta* (Osten Sacken) (Alexander and Alexander, 1970: 159) (Tipulidae).
4. *Eriocera mesoxantha*, p. 10. "Mexico, Orizaba (Sumichrast), A single ♂ (coll. Bellardi)". Now *Hexatoma (Eriocera) mesoxantha* (Osten Sacken) (Alexander and Alexander, 1970: 103) (Tipulidae).
5. *Eriocera zonata*, p. 10. "Mexico, Orizaba (Sumichrast), 1 ♂ and 1 ♀ (Coll. Bellardi)". Now *Hexatoma (Eriocera) zonata* (Osten Sacken) (Alexander and Alexander, 1970: 105) (Tipulidae).
6. *Eriocera haemorrhoea*, p. 11. "Mexico, Orizaba (Sumichrast), 3 ♂♂ and many females (Coll. Bellardi). A ♀ in M. Bigot's collection". Now *Hexatoma (Eriocera) haemorrhoea* (Osten Sacken) (Alexander and Alexander, 1970: 101) (Tipulidae).
7. *Eriocera gracilis*, p. 12. "Mexico, Orizaba (Sumichrast), 1 ♂ (Coll. Bellardi)". Now *Hexatoma (Eriocera) gracilis* (Osten Sacken) (Alexander and Alexander, 1970: 101) (Tipulidae).
8. *Eriocera pretiosa*, p. 12. "Mexico, Orizaba (Sumichrast), a single ♂ (Coll. Bellardi)". Now *Hexatoma (Eriocera) pretiosa* (Osten Sacken) (Alexander and Alexander, 1970: 104) (Tipulidae).
9. *Tipula virgo*, p. 14. "Mexico, Ciudad in Durango, 8110 feet (Forrer), 3 ♂♂ and 1 ♀". Now in *Tipula (Yamatotipula)* (Alexander and Alexander, 1970: 40) (Tipulidae).
10. *Pachyrrhina ordinaria*, p. 16. "Mexico, Ciudad in Durango, 8110 feet (Forrer), 3 ♂♂ and 2 ♀♀". Now in *Nephrotoma* (Alexander and Alexander, 1970: 17) (Tipulidae).
11. *Rhaphiocera caloptera*, p. 26. "Mexico, Paso del Macho (Höge), 1 ♂". Unchanged (James, 1973: 23) (Stratiomyidae).
12. *Aochletus cinctus*, p. 38. "Mexico, northern Sonora (Morrison), 2 ♂♂ and 1 ♀". Now *Euparyphus (Aochletus) cinctus* (Osten Sacken) (James, 1973: 32) (Stratiomyidae).
13. *Euparyphus tricolor*, p. 40. "Mexico, northern Sonora (Morrison), 1 ♂". Now *Euparyphus (Euparyphus) tricolor* (Osten Sacken) (James, 1973: 31) (Stratiomyidae).

14. *Euparyphus decemmaculatus*, p. 40 "Mexico, northern Sonora (Morrison), 1 ♂". Now in *Caloparyphus* (James, 1973: 31) (Stratiomyidae).
15. *Pangonia caustica*, p. 44. "Mexico, Ciudad in Durango, 8000 feet (Forrer), 1 ♂". Now *Esenbeckia (Ricardoia) caustica* (Osten Sacken) (Fairchild, 1917: 10) (Tabanidae).
16. *Chrysops altivagus*, p. 45, pl. 1, fig. 6 (♂), 7 (♀). "Mexico, Ciudad in Durango, 8000 feet (Forrer), 6 ♂♂ and 6 ♀♀". Unchanged (Fairchild, 1971: 30) (Tabanidae).
17. *Tabanus bifenestratus*, p. 52. "Mexico, Ciudad in Durango, 8100 feet (Forrer), 1 ♀". Now in *Holcopsis* (Fairchild, 1971: 58) (Tabanidae).
18. *Tabanus cribellum*, p. 52, pl. 1, fig. 10. "Mexico, Presidio (Forrer), 3 ♀♀". Now in *Stenotabanus (Stenotabanus)* (Fairchild, 1971: 45) (Tabanidae).
19. *Acanthomera championi*, p. 67, pl. 3, fig. 16 (♀). "Mexico (Sumichrast) (Coll. Bellardi); Nicaragua, Chontales (Janson); Panama, Bugaba (Champion); Mexico (British Museum, Berlin)". Now a synonym of *Pantophthalmus bellardii* (Bigot, 1862) (Papavero, 1967: 2) (Pantophthalmidae).
20. *Leptomidas brachyrhynchus*, p. 69. "Mexico, northern Sonora (Morrison), 1 ♀". Now in *Nemomydas* (Papavero, 1996: 629) (Mydidae).
21. *Midas chrysites*, p. 72. "Mexico, northern Sonora (Morrison), 1 ♂". Now a junior synonym of *Mydas ventralis* Gerstaecker, 1868 (Papavero, 1996: 632) (Mydidae).
22. *Midas cleptes*, p. 72. "Mexico, northern Sonora (Morrison), 1 ♂". Now a junior synonym of *Mydas ventralis* Gerstaecker, 1868 (Papavero, 1996: 632) (Mydidae).
23. *Hirmoneura psilotes*, p. 74. "Mexico (Sumichrast), 1 ♀ (Bellardi's collection)". Now in *Hirmoneura (Neohirmoneura)* (Papavero, 1968: 2) (Nemestrinidae).
24. *Exoprosopa iota*, p. 82, pl. 1, fig. 13. "Mexico, Tehuacan, 3 specimens (♂, ♀♀) (Coll. Bellardi)". Unchanged (Painter *et al.*, 1978: 41) (Bombyliidae).
25. *Exoprosopa rhea*, p. 83, pl. 1, fig. 4. "Mexico (Craveri), 2 ♀♀ (1 in Coll. Bellardi, 1 in British Museum)". Unchanged (Painter and Painter, 1983: 407) (Bombyliidae).
26. *Exoprosopa filia*, p. 86. "Mexico, Ciudad in Durango, 8100 feet (Forrer), 11 specimens of both sexes". Unchanged (Painter *et al.*, 1978: 40) (Bombyliidae).
27. *Exoprosopa socia*, p. 87. "Mexico, Ciudad in Durango (Forrer), 1 ♀". Unchanged (Painter *et al.*, 1978: 41) (Bombyliidae).
28. *Exoprosopa pardus*, p. 88, pl. 1, fig. 15. "Mexico, northern Sonora (Morrison), 2 ♂♂, 5 ♀♀". Now *Exoprosopa parda* Osten Sacken (Painter *et al.*, 1978: 41) (Bombyliidae).
29. *Hyperalonia dido*, p. 91, pl. 1, fig. 17. "Mexico (Truqui, Sumichrast), (Coll. Bellardi), Tres Marias Islands (Forrer), 3 specimens in Coll. Bellardi, 1 (Tres Marias) (♂, ♀)". Now in *Ligyra* (Painter *et al.*, 1978: 43) (Bombyliidae).
30. *Stonyx clelia*, p. 95, pl. 2, fig. 3. "Mexico northern Sonora (Morrison), 20 specimens of both sexes". Unchanged (Painter *et al.*, 1978: 34) (Bombyliidae).
31. *Isopenthes jaenickeana*, p. 97, pl. 2, fig. 4. "Mexico, northern Sonora (Morrison), 25 specimens (♂♂, ♀♀)". Now *Villa (Hemipenthes) sinuosa jaenickeana* (Osten Sacken) (Painter *et al.*, 1978: 50) (Bombyliidae).
32. *Argyramoeba seriepunctata*, p. 103, pl. 2, fig. 5. "Mexico, northern Sonora (Morrison) (♂, ♀), Tehuacan (Sumichrast) (Coll. Bellardi, 2 ♀♀)". Now *Anthrax seriepunctatus* (Osten Sacken) (Painter *et al.*, 1978: 33) (Bombyliidae).
33. *Argyramoeba daphne*, p. 104, pl. 2, fig. 6. "Mexico northern Sonora (Morrison), 12 ♂♂, 6 ♀♀". Now in *Anthrax* (Painter and Painter, 1983: 431) (Bombyliidae).

34. *Astrophanes adonis*, p. 107. "Mexico, northern Sonora (Morrison), ♂, ♀". Unchanged (Painter *et al.*, 1978: 37) (Bombyliidae).
35. *Lepidanthrax angulus*, p. 111, pl. 2, fig. 9. "California (Osten Sacken), Mexico, northern Sonora (Morrison), 2 ♂♂". Unchanged (Painter *et al.*, 1978: 34) (Bombyliidae).
36. *Anthrax arethusia*, p. 116, pl. 2, fig. 11. "Mexico, northern Sonora (Morrison), Presidio (Forrer), Orizaba (Sumichrast); Guatemala near the city (Champion); Costa Rica, Irazu (Rogers), many ♂♂ and ♀♀". Now in *Poecilanthrax* (Painter *et al.*, 1978: 38) (Bombyliidae).
37. *Anthrax poecilogaster*, p. 118, pl. 2, fig. 12. "California (Edwards) 5 specimens; Mexico, northern Sonora (Morrison) 1 specimen, Tehuacan 1 specimen (Coll. Bellardi)". Now in *Poecilanthrax* (Painter *et al.*, 1978: 38) (Bombyliidae).
38. *Anthrax selene*, p. 122, pl. 2, fig. 14. "Mexico, northern Sonora (Morrison), 2 ♂♂". Now in *Villa (Thyridanthrax)* (Painter *et al.*, 1978: 52) (Bombyliidae).
39. *Anthrax ephebus*, p. 124. "Mexico, Tehuacan (Sumichrast), 2 ♂♂, 2 ♀♀ (Bellardi Coll.)". Now *Villa (Paravilla) epheba* (Osten Sacken) (Painter *et al.*, 1978: 51) (Bombyliidae).
40. *Anthrax cuniculus*, p. 125, pl. 2 fig. 16. "Mexico, northern Sonora (Morrison), 4 ♂♂, and ♀♀ specimens". Now *Villa (Paravilla) cunicula* (Osten Sacken) (Painter *et al.*, 1978: 51) (Bombyliidae).
41. *Anthrax rex*, p. 127, pl. 2, fig. 17. "Mexico, northern Sonora (Morrison), 20 ♂♂ and ♀♀ specimens". Now in *Villa (Rhynchanthrax)* (Painter *et al.*, 1978: 52) (Bombyliidae).
42. *Anthrax lepidota*, p. 130, pl. 2, fig. 18. "Mexico, northern Sonora (Morrison), 1 ♂". Now in *Villa (Hemipenthes)* (Painter *et al.*, 1978: 48) (Bombyliidae).
43. *Anthrax chimaera*, p. 131. "Mexico, northern Sonora (Morrison), 2 ♂♂". Now in *Villa (Hemipenthes)* (Painter *et al.*, 1978: 47) (Bombyliidae).
44. *Anthrax eumenes*, p. 131, pl. 2, fig. 19. "Mexico, northern Sonora (Morrison), ♂, ♀". Now in *Villa (Hemipenthes)* (Painter *et al.*, 1978: 48) (Bombyliidae).
45. *Anthrax scylla*, p. 132, pl. 3, fig. 1. "Mexico, northern Sonora (Morrison), 7 specimens, apparently all ♂♂". Now in *Villa (Hemipenthes)* (Painter *et al.*, 1978: 49) (Bombyliidae).
46. *Anthrax faustina*, p. 136. "Mexico, northern Sonora (Morrison), 15 ♂♂, 11 ♀♀". Now in *Villa (Villa)* (Painter *et al.*, 1978: 54) (Bombyliidae).
47. *Anthrax sabina*, p. 137. "Mexico, northern Sonora (Morrison), ♂, ♀". Now in *Villa (Villa)* (Painter *et al.*, 1978: 56) (Bombyliidae).
48. *Anthrax moneta*, p. 138. "Mexico, northern Sonora (Morrison), 5 ♂♂". Now in *Villa (Villa)* (Painter *et al.*, 1978: 55) (Bombyliidae).
49. *Anthrax livia*, p. 139, pl. 3, fig. 2 (♂). "Mexico, northern Sonora (Morrison), 6 ♂♂, 5 ♀♀". Now in *Villa (Villa)* (Painter *et al.*, 1978: 55) (Bombyliidae).
50. *Anthrax agrippina*, p. 139, pl. 3, fig. 3 (♂). "Mexico, northern Sonora (Morrison), 3 ♂♂, 1 ♀". Now in *Villa (Villa)* (Painter *et al.*, 1978: 53) (Bombyliidae).
51. *Aphoebantus cyclops*, p. 146, pl. 3, figs. 4, 4 a-c (♂). "Mexico, northern Sonora (Morrison), 3 ♂♂, 4 ♀♀". Unchanged (Painter *et al.*, 1978: 25) (Bombyliidae).
52. *Aphoebantus bisulcus*, p. 148. "Mexico, northern Sonora (Morrison), ♂". Unchanged (Painter *et al.*, 1978: 25) (Bombyliidae).
53. *Aphoebantus carbonarius*, p. 149. "North America, Washington Territory and Western Kansas (Williston); Mexico, northern Sonora (Morrison), 1 ♂, 3 ♀♀". Unchanged (Painter *et al.*, 1978: 25) (Bombyliidae).

54. *Aphoebantus peodes*, p. 149. "Mexico, northern Sonora (Morrison), ♂, ♀". Unchanged (Painter *et al.*, 1978: 26) (Bombyliidae).
55. *Pantarbes pusio*, p. 153, pl. 3, figs. 15, 15 a-d (♂). "Mexico, northern Sonora (Morrison), 20 ♂♂, ♀♀ specimens". Unchanged (Painter *et al.*, 1978: 10) (Bombyliidae).
56. *Paracosmus morrisoni*, p. 155. "Mexico, northern Sonora (Morrison), ♀". Unchanged (Painter *et al.*, 1978: 23) (Bombyliidae).
57. *Phthiria consors*, p. 155. "Mexico, Ciudad in Durango, 8100 feet (Forrer), 5 ♀♀". Unchanged (Painter *et al.*, 1978: 14) (Bombyliidae).
58. *Systropus lugubris*, p. 159. "Mexico (Sumichrast) (Coll. Bellardi), 1 ♀". Unchanged (Painter *et al.*, 1978: 19) (Bombyliidae).
59. *Systropus rufiventris*, p. 159. "Mexico (Sumichrast) (Coll. Bellardi), 1 ♂". Unchanged (Painter *et al.*, 1978: 19) (Bombyliidae).
60. *Eclimus (?) auripilus*, p. 161, pl. 3, fig. 5. "Mexico, Ciudad in Durango, 8100 feet (Forrer), 3 ♂♂, 3 ♀♀". Now *Thevenemyia auripila* (Osten Sacken) (Painter *et al.*, 1978: 22) (Bombyliidae).
61. *Thereva bolbocera*, p. 162. "Mexico, Presidio (Forrer)". 1 ♀. Now in *Litolinga* (Irving and Lyneborg, 1980: 236) (Therevidae).
62. *Oncodes humeralis*, p. 164. "Mexico, northern Sonora (Morrison), 1 ♂". A synonym of *Ogcodes (Ogcodes) pallidipennis* Loew, 1866 (Schlinger, 1983) (Acroceridae).
63. *Stichopogon catulus*, p. 170. "Mexico, northern Sonora (Morrison), 2 ♂♂". Unchanged (Martin and Papavero, 1970: 5) (Asilidae).
64. *Saropogon senex*, p. 179. "Mexico, Presidio (Forrer), 1 ♂". Unchanged (Martin and Papavero, 1970: 36) (Asilidae).
65. *Cophura sodalis*, p. 181, pl. 3, fig. 13 (♀). "Mexico, Presidio (Forrer), 1 ♂, 9 ♀♀". Unchanged (Martin and Papavero, 1970: 34) (Asilidae).
66. *Atomosia mucida*, p. 184. "Mexico, Presidio (Forrer), 5 ♂♂ and ♀♀ specimens". Unchanged (Martin and Papavero, 1970: 47) (Asilidae).
67. *Lampria aurifex*, p. 187. "Mexico, Orizaba (Sallé), 2 males in the British Museum; Costa Rica, Caché (Rogers), ♂, ♀, 1 ♂ in Cool. Bellardi". Unchanged (Martin and Papavero, 1970: 39) (Asilidae).
68. *Mallophora fautrix*, p. 191, pl. 3, fig. 14 (♀). "Mexico, Presidio (Forrer), 2 ♂♂, 3 ♀♀". Unchanged (Martin and Papavero, 1970: 74) (Asilidae).
69. *Promachus anceps*, p. 194. "Mexico (Sallé); Panama, Bugaba, 800 to 1500 feet (Champion), 3 ♀♀". Unchanged (Martin and Papavero, 1970: 79) (Asilidae).
70. *Erax triton*, p. 200. "Mexico, Presidio (Forrer), ♂, ♀". Now in *Efferia* (Martin and Papavero, 1970: 68) (Asilidae).
71. *Erax rapax*, p. 201. "Mexico, northern Sonora (Morrison), 3 ♂♂, 2 ♀♀". In *Efferia* (Martin and Papavero, 1970: 67) (Asilidae).
72. *Erax prolificus*, p. 202. "Mexico, northern Sonora (Morrison), 40 ♂♂, 30 ♀♀". Now *Efferia prolifica* (Osten Sacken) (Martin and Papavero, 1970: 67) (Asilidae).
73. *Proctacanthus exquisitus*, p. 206, pl. 3, fig. 12 (♀). "Mexico, northern Sonora (Morrison), 1 ♂, 1 ♀". Now *Proctacanthella exquisita* (Osten Sacken) (Martin and Papavero, 1970: 82) (Asilidae).
74. *Neomochtherus plebeius*, p. 209. "Mexico, northern Sonora (Morrison), 1 ♂, 1 ♀". Now in *Philonicus* (Martin and Papavero, 1970: 85) (Asilidae).

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75. *Apiocera augur*, p. 212. "Mexico, Presidio (Forrer), 1 ♂". Unchanged (Bernardi, 1975) (Apioceridae).
76. *Dolichopus myosota*, p. 213. "Mexico, northern Sonora (Morrison), 1 ♂". Unchanged but *D. miosotus* (Robinson, 1970: 46) (Dolichopodidae).
77. *Empis diaphorina*, p. 215. "Mexico, Ciudad in Durango, 8100 feet (Forrer), 2 ♀♀". Now in *Lampremis* (Smith, 1967: 20) (Empididae).
78. *Empis benigna*, p. 215. "Mexico, Ciudad in Durango (Forrer), 1 ♂, 2 ♀♀". Now in *Lampremis* (Smith, 1967: 19) (Empididae).

3. THE SPECIES DESCRIBED BY SAMUEL WENDELL WILLISTON

Samuel Wendell Williston (Fig. 2) was born in Boston on July 10, 1852, and was therefore a little past 66 years old when he died in Chicago on August 30, 1918. At the time of his death and for some years he was Professor of Paleontology and Director of the Walker Museum of the University of Chicago.

His father was a blacksmith, uneducated, but of native ability, who moved with his family to Manhattan, Kansas, in 1857. Here young Williston's boyhood was spent and in due time he entered the Agricultural College in his home town graduating from it in 1872. But his college study was interrupted, for he ran away from home at 18 and went to work as a railroad laborer, from which humble position he rose before he was 20 to be a transit man at a handsome salary for that time. However, he suffered greatly from malaria and had to resign and go back home. After recuperating he finished his college study. Railroad engineering went flat in the panic of 1873 and he began to study medicine, 'reading' in the office of a local doctor. In the summers of 1874 and 1875 he assisted Professor B. F. Mudge on fossil-collecting expeditions in western Kansas, the work being done for Prof. Marsh of Yale University. He spent the winter of 1875-76 in the medical school of the University of Iowa and was invited to come to Yale to see Marsh in the spring; this resulted in a contract to work for Marsh for three years at \$40.00 a month and in almost continuous employment with him for nine years, until 1885. He managed to finish his medical course and get his M. D. at Yale in 1880. But by this time his scientific bent was strongly developed and it soon appeared that his work lay in following it rather than in the practice of medicine. He specialized in paleontology and received his Ph. D. under Marsh in 1885. His genius for anatomy led to an appointment as demonstrator in Yale Medical School the following year, and, after a short apprenticeship, to full professorship in human anatomy in 1887 - a striking recognition of his ability.

After three years in this position, he accepted a call to the University of Kansas in 1890, as professor of historical geology and paleontology. Twelve years of his prime were spent in this institution, years crowded with productive labors. He

helped organize the medical department of the University and took on the deanship of it along with his other work; this almost broke his vigorous health and he had to slacken his pace - perhaps never quite again regaining it.

The consciousness that he was working beyond his strength had something to do with his going to the University of Chicago in 1902, as professor of paleontology. Here he was able to concentrate on a single speciality, officially at least, as he left medicine behind and entomology also. In this place he spent the last 14 years of his life, beginning under some unexpected handicaps and gradually working up to full recognition and honor.



Figure 2

Samuel Wendell Williston. Photograph property of N. Papavero.

In the outline just given, entomology is hardly hinted at, for the reason that Williston never held an official entomological position. But he found time to do much valuable work as a pioneer in dipterology. His employer would not allow him to publish in paleontology and he sought a field outside where he could be free to work and publish: this he found in the Diptera. His interest in the flies became serious about 1878. At this time Osten Sacken (see Part 2) had returned to Europe and there was not a single American student of the Order, except Edward Burgess, the Boston yacht designer, who published only one small paper. So Williston was virtually alone on the continent. In the absence of guidance, he plowed his way by main strength through descriptions of species until here and there he made an identification, which served as anchor points for a new offensive. He had few definitions of genera, so he had to work backward from the species. After a year or two of this tedious and time-wasting effort he came upon Schiner's '*Fauna Austriaca*', in which the Austrian families, genera and species of Diptera as known up to 1862-4 are analytically arranged and succinctly described. To his immense relief and satisfaction, he now found that all his American flies could be traced to their families and most of them to their proper genera, in this fine work. He was so impressed by the saving of time that his own later publications show the effect of this early experience on every page; everywhere he has the beginner in mind and is clearing the way for him.

In a few years he began publishing tentative papers analyzing the American families and genera of the flies. These he extended and enlarged in a pamphlet in 1888 and again in a bound volume in 1896; and in 1908 he published a third edition, still more complete, with 1000 figures, of which 800 were made with his own hand, his well-known '*Manual of North American Diptera*'. From necessity he published it at his own expense; it was eight years before the receipts from sales covered the cost of printing, but happily he lived to see this consummation.

From 1890 his more important papers were concerned with tropical Diptera (Mexico, St. Vincent, Brazil) and with bibliography. As his official duties grew more exacting, he gradually abandoned entomology, but he had as many farewell appearances as an opera singer, for he could not resist the temptation to come back again and again.

His deep interest in genera and his wide acquaintance with them, together with his universally recognized taxonomic ability, made him the peer of Osten Sacken, Brauer and others, in the period 1890-1900, as a world authority in Diptera.

The types of Williston's new species are much scattered. His Syrphidae were acquired by the U. S. National Museum, the rest of his earlier collections by the University of Kansas. His '*Biologia*' material and that from St. Vincent went to London (British Museum). The American Museum of Natural History, New York,

obtained his latter collections, including some duplicates of type-series from St. Vincent and Mexico.

Williston did not believe in designating a single type-specimen; hence in some cases his types of the same species are in two museums. He had no collection of Diptera in his last years, although he still retained his fine library in the Order.

In his last few years Williston published two volumes on fossil reptiles, his greatest speciality, and his last winter he was working on a handbook on Reptilia, which was probably near completion when he was compelled to abandon it.

His last years were full of honors. He was a delegate to the International Zoological Congress at Monaco; Yale University gave him an honorary Dr. Sc.; he was chosen to the limited membership of the National Academy of Science, and the Entomological Society of America made him an Honorary Fellow, one of seven out of its membership of 600.

He was married to Annie I. Hathaway, of New Haven, who survived him with three daughters and a son (Aldrich, 1918; Shor, 1971).

Williston described the following species of Mexican flies:

1887c:

1. *Microdon falcatus*, p. 9. "Mexico, Isthmus of Tehuantepec". Types ♀♀, USNM. Unchanged (Thompson *et al.*, 1976: 64) (Syrphidae).
2. *Volucella chaetophora*, p. 140. "Mexico, Isthmus of Tehuantepec". Types ♂ and ♀, USNM. Now *Copestylum chaetophorum* (Williston) (Thompson *et al.*, 1976: 73) (Syrphidae).
3. *Copestylum limbipennis*, p. 162. "Mexico, Isthmus of Tehuantepec". Type ♀, USNM. Now *Copestylum limbipenne* Williston (Thompson *et al.*, 1976: 78) (Syrphidae).
4. *Ceria pedicellata*, p. 264. "Mexico". Type ♂, USNM. Now in *Polibiomyia* (Thompson *et al.*, 1976: 95) (Syrphidae).

1891b:

5. *Mixogaster bellula*, p. 1, pl. I, figs. 1, 1 a-b. "Mexico, La Venta in Guerrero (H.H. Smith)". 1 ♂, BMNH. Now *Microdon bellulus* (Williston) (Thompson *et al.*, 1976: 63) (Syrphidae).
6. *Pipiza (Pipizella) bellula*, p. 6. "Mexico, Xucumanatlan in Guerrero, 7000 feet (H. H. Smith)". 3 ♂♂ in BMNH. Unchanged (Thompson *et al.*, 1976: 67) (Syrphidae).
7. *Chilosia chrysochlamys*, p. 8, pl. I, figs. 4, 4 a. "Mexico, Omilteme, 8000 feet, Sierra de las Aguas Escondidas, 9500 feet, both in Guerrero (H. H. Smith)". 5 specimens (♂♂, ♀♀) in BMNH and AMNH. Unchanged, but in *Cheilosia* (Thompson *et al.*, 1976: 68) (Syrphidae).
8. *Chilosia sororia*, p. 8. "Mexico, Ciudad in Durango, 8100 feet (Forrer)". 2 ♀♀ in BMNH. Unchanged, but in *Cheilosia* (Thompson *et al.*, 1976: 69) (Syrphidae).
9. *Chilosia sororcula*, p. 9. "Mexico, Omilteme, 8000 feet, Xucumanatlan, 7000 feet, Sierra de las Aguas Escondidas, 7000 feet, all in Guerrero (H. H. Smith)". 1 ♂ in BMNH. Unchanged, but in *Cheilosia (Cartosyrphus)* (Thompson *et al.*, 1976: 69) (Syrphidae).

10. *Melanostoma catabombum*, p. 12. "Mexico, Omilteme, 8000 feet, Amula 6000 feet, both in Guerrero (H. H. Smith)". 6 ♂♂, 3 ♀♀ in BMNH and AMNH. Now *Rhysops catabomba* (Williston) (Thompson *et al.*, 1976: 42) (Syrphidae).
11. *Melanostoma crenulatum*, p. 12, pl. I, figs. 5, 5 a-b. "Mexico, Xucumanatlan, 7000 feet, Omilteme, 8000 feet, both in Guerrero (H. H. Smith)". 15 specimens (♂♂ and ♀♀) in BMNH and AMNH. Now *Rhysops crenulatus* (Williston) (Thompson *et al.*, 1976: 42) (Syrphidae).
12. *Melanostoma rugosonassus*, p. 13. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 2 ♀♀ in BMNH. Now in *Rhysops* (Thompson *et al.*, 1976: 44) (Syrphidae).
13. *Syrphus diversus*, p. 16, pl. I, figs. 6, 6 a. "Mexico, Omilteme 8000 feet, Xucumanatlan, 7000 feet, both in Guerrero (H. H. Smith)". 1 ♂, 3 ♀♀ in BMNH. Now in *Ocyptamus* (Thompson *et al.*, 1976: 17) (Syrphidae).
14. *Syrphus bisinuatus*, p. 17. "Mexico, Omilteme in Guerrero, 7000 feet (H. H. Smith); Costa Rica, Volcan de Irazu, 6000-7000 feet, Rio Sucio (Rogers)". 7 ♀♀ in BMNH and AMNH. Now *Syrphus shorae* Fluke, 1950 (Thompson *et al.*, 1976: 8) (Syrphidae).
15. *Syrphus decipiens*, p. 18. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 15 ♂♂ in BMNH and AMNH. Now in *Ocyptamus* (Thompson *et al.*, 1976: 16) (Syrphidae).
16. *Didea coquilletti*, p. 19, pl. I, figs. 9, 9a. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 3 ♂♂, and 3 ♀♀ in BMNH and AMNH. Now in *Dideomima* (Thompson *et al.*, 1976: 10) (Syrphidae).
17. *Salpingogaster limbipennis*, p. 29. "Mexico, Amula in Guerrero, 6000 feet (H. H. Smith)". 2 ♂♂ in BMNH. Unchanged (Thompson *et al.*, 1976: 32) (Syrphidae).
18. *Baccha rubida*, p. 34, pl. I, figs. 8, 8 a-b. "Mexico, Omilteme 8000 feet, and Sierra de las Aguas Escondidas 9500 feet, both in Guerrero (H. H. Smith)". 6 specimens (♂♂, ♀♀) in BMNH and AMNH. Now in *Leucopodella* (Thompson *et al.*, 1976: 47) (Syrphidae).
19. *Baccha gracilis*, p. 34. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith); Orizaba (H. H. Smith and F. D. Godman)". 4 ♀♀ in BMNH. Now in *Leucopodella* (Thompson *et al.*, 1976: 46) (Syrphidae).
20. *Baccha nasuta*, p. 35. "Mexico". ♂, and ♀ in BMNH. Now *Ocyptamus nasutus* (Williston) (Thompson *et al.*, 1976: 22) (Syrphidae).
21. *Baccha attenuata*, p. 35. "Mexico, Amula 6000 feet, and Omilteme 8000 feet, both in Guerrero (H. H. Smith)". 1 ♂, 2 ♀♀ in BMNH. Now *Ocyptamus attenuatus* (Williston) (Thompson *et al.*, 1976: 13) (Syrphidae).
22. *Baccha punctifrons*, p. 36. "Mexico, Amula 6000 feet, Omilteme 8000 feet, Xucumanatlan 7000 feet, and Sierra de las Aguas Escondidas 9500 feet, all in Guerrero (H. H. Smith)". 6 specimens (♂♂, ♀♀) in BMNH and AMNH. Now in *Ocyptamus* (Thompson *et al.*, 1976: 26) (Syrphidae).
23. *Baccha laudabilis*, p. 36. "Mexico, Sierra de las Aguas Escondidas in Guerrero, 7000 feet (H. H. Smith)". 1 ♂ in BMNH. Now in *Ocyptamus* (Thompson *et al.*, 1976: 21) (Syrphidae).
24. *Baccha dolosa*, p. 37, pl. I, figs. 7, 7 a-b. "Mexico, Omilteme 8000 feet, Xucumanatlan 7000 feet, and Amula 6000 feet, all in Guerrero (H. H. Smith); Guatemala, Cerro Zunil 4000 to 5000 feet (Champion)". 5 specimens (♂♂, ♀♀) in BMNH and AMNH. Now *Ocyptamus willistoni* Thompson, 1976 (Thompson *et al.*, 1976: 30) (Syrphidae).

25. *Baccha lugubris*, p. 37. "Mexico, Venta de Zopilote 2800 feet and Chilpancingo 4600 feet, both in Guerrero, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". 22 specimens (♂♂, ♀♀) in BMNH and AMNH. Now *Ocyptamus mexicanus* (Curran, 1930) (Thompson *et al.*, 1976: 22) (Syrphidae).
26. *Baccha aenea*, p. 37, pl. I, figs. 10, 10 a. "Mexico, Sierra de las Aguas Escondidas in Guerrero, 9500 feet (H. H. Smith)". 2 ♂♂ in BMNH. Now *Ocyptamus aeneus* (Williston) (Thompson *et al.*, 1976: 12) (Syrphidae).
27. *Baccha coerulea*, p. 38. "Mexico, Amula 6000 feet, Xucumanatlan 7000 feet, Omilteme 8000 feet, and Sierra de las Aguas Escondidas 9500 feet, all in Guerrero (H. H. Smith)". 4 specimens (♂♂, ♀♀) in BMNH. Now *Ocyptamus coeruleus* (Williston) (Thompson *et al.*, 1976: 14) (Syrphidae).
28. *Baccha concinna*, p. 38. "Mexico, Chilpancingo 4600 feet and Venta de Zopilote 2800 feet, both in Guerrero, Teapa in Tabasco (H. H. Smith)". 1 ♂, 2 ♀♀ in BMNH. Now *Ocyptamus concinnus* (Williston) (Thompson *et al.*, 1976: 15) (Syrphidae).
29. *Myiolepta auricaudata*, p. 40, pl. I, figs. 11, 11 a-b. "Mexico, Xucumanatlan in Guerrero 7000 feet, Cuernavaca in Morelos (H. H. Smith)". 1 ♂, 1 ♀ in BMNH. Unchanged (Thompson *et al.*, 1976: 89) (Syrphidae).
30. *Phalacromyia bellula*, p. 42. "Mexico, Temax in North Yucatan (Gaumer)". 2 ♂♂ in BMNH. Now *Copestylum bellulum* (Williston) (Thompson *et al.*, 1976: 72) (Syrphidae).
31. *Volucella quadrata*, p. 46, pl. I, figs. 12, 12 a-b. "Mexico, Chilpancingo in Guerrero (H. H. Smith)". 1 ♀ in BMNH. Now *Copestylum quadratum* (Williston) (Thompson *et al.*, 1976: 83) (Syrphidae).
32. *Volucella fraudulenta*, p. 48, pl. I, figs. 13, 13 a-b. "Mexico, Venta de Zopilote in Guerrero, 2800 feet (H. H. Smith), Temax in Northern Yucatan (Gaumer)". 5 specimens (♂♂, ♀♀) in BMNH and AMNH. Now in *Copestylum fraudulentum* (Williston) (Thompson *et al.*, 1976: 76) (Syrphidae).
33. *Volucella ornata*, p. 49. "Mexico, Jalapa (F. D. Godman)". 3 ♂♂ in BMNH and AMNH. Now *Copestylum ornatum* (Williston) (Thompson *et al.*, 1976: 80) (Syrphidae).
34. *Volucella caesariata*, p. 45. "Mexico, Orizaba (H. H. Smith)". 1 ♂ in BMNH. Now *Copestylum caesariatum* (Williston) (Thompson *et al.*, 1976: 73) (Syrphidae).
35. *Volucella opinator*, p. 51, pl. I, figs. 14, 14 a-b. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♀ in BMNH. Now in *Copestylum* (Thompson *et al.*, 1976: 80) (Syrphidae).
36. *Volucella comastes*, p. 52. "Mexico, Orizaba (H. H. Smith and F. D. Godman)". 2 ♀♀ in BMNH. Now a junior synonym of *Copestylum variegatum* (Bigot, 1875) (Thompson *et al.*, 1976: 86) (Syrphidae).
37. *Ophromyia nasica*, p. 55, pl. II, figs. 1, 1 a-b. "Mexico, Acaguizotla in Guerrero (H. H. Smith)". 2 ♂♂ in BMNH. Now *Copestylum nasicum* (Williston) (Thompson *et al.*, 1976: 79) (Syrphidae).
38. *Eristalis persa*, p. 58. "Mexico, Sierra de las Aguas Escondidas in Guerrero, 9000 feet (H. H. Smith)". 1 ♀ in BMNH. Now in *Eristalis (Eoseristalis)* (Thompson *et al.*, 1976: 102) (Syrphidae).
39. *Eristalis circe*, p. 59, pl. II, figs. 3, 3 a. "Mexico, Ciudad in Durango (Forrer), Omilteme in Guerrero 8000 feet (H. H. Smith), Jalapa in Vera Cruz (F. D. Godman)". 20 specimens (♂♂, ♀♀) in BMNH. Now in *Eristalis (Eoseristalis)* (Thompson *et al.*, 1976: 102) (Syrphidae).

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40. *Eristalis trigonus*, p. 61, pl. II, figs. 4, 4 a. "Mexico, Xucumanatlan 7000 feet, Omilteme 8000 feet, both in Guerrero (H. H. Smith)". 4 specimens (♂♂, ♀♀) in BMNH. Now *Palpada trigona* (Williston) (Thompson *et al.*, 1976: 110) (Syrphidae).
41. *Eristalis aemulus*, p. 64, pl. II, fig. 5. "Mexico, Rio Papagio 1200 feet, Chilpancingo 4600 feet, Rincon 2800 feet, Venta de Zopilote 2800 feet, all in Guerrero (H. H. Smith); Guatemala, San Gerónimo (Champion); Panama, Bugaba (Champion)". 13 specimens (♂♂, ♀♀) in BMNH. Now *Palpada aemula* (Williston) (Thompson *et al.*, 1976: 102) (Syrphidae).
- 1892b:
42. *Eristalis minutalis*, p. 64, pl. II, figs. 6, 6 a. "Mexico, Teapa in Tabasco (H.H. Smith)". 5 specimens (♂♂, ♀♀) in BMNH. Now in *Palpada* (Thompson *et al.*, 1976: 107) (Syrphidae).
43. *Mallota* (?) *championi*, p. 69. "Mexico, Amula in Guerrero, 6000 feet (H. H. Smith)". 1 ♂ in BMNH. Now in *Quichuana* (Thompson *et al.*, 1976: 98) (Syrphidae).
44. *Mallota margarita*, p. 70, pl. II, figs. 7, 7 a-b. "Mexico, Xucumanatlan 7000 feet, Omilteme 8000 feet, both in Guerrero (H. H. Smith)". 8 specimens (♂♂, ♀♀) in BMNH. Unchanged (Thompson *et al.*, 1976: 100) (Syrphidae).
45. *Mallota smithi*, p. 70, pl. II, figs. 8, 8 a-b. "Mexico, Omilteme in Guerrero (H. H. Smith)". 14 specimens (♂♂, ♀♀) in BMNH, and AMNH. Unchanged (Thompson *et al.*, 1976: 100) (Syrphidae).
46. *Xylota rufipes*, p. 71. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 4 specimens (♂♂, ♀♀) in BMNH. Now *Xylota willistoni* (Goot, 1964) (Thompson *et al.*, 1976: 114) (Syrphidae).
47. *Xylota pauxilla*, p. 71, pl. II, figs. 9, 9 a-b. "Mexico, Omilteme 8000 feet, Xucumanatlan 7000 feet, both in Guerrero (H. H. Smith)". 4 specimens (♂♂, ♀♀) in BMNH. Now in *Neplax* (Thompson *et al.*, 1976: 115) (Syrphidae).
48. *Xylota stenogaster*, p. 72. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith); Guatemala, Purula in Vera Paz (Champion)". A ♂, and ♀ in BMNH. Unchanged (Thompson *et al.*, 1976: 114) (Syrphidae).
49. *Xylota brachygaster*, p. 72. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 1 ♂ in BMNH. Unchanged (Thompson *et al.*, 1976: 114) (Syrphidae).
50. *Ceriogaster auricaudata*, p. 73, pl. II, figs. 10, 10 a. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1♂, 1♀ in BMNH. Now *Sterphus* (*Crepidomyia*) *auricaudatus* (Williston) (Thompson *et al.*, 1976: 117) (Syrphidae).
51. *Ceria meadei*, p. 76, pl. II, figs. 12, 12 a-b. "Mexico, Xucumanatlan in Guerrero 7000 feet (H. H. Smith)". 3 ♂♂ in BMNH. Now in *Sphiximorpha* (Thompson *et al.*, 1976: 93) (Syrphidae).
52. *Ceria schnablei*, p. 76. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 2 ♂♂ in BMNH. Now in *Polibiomyia* (Thompson *et al.*, 1976: 95) (Syrphidae).
53. *Ceria bergrothi*, p. 77. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♂ in BMNH. Now in *Polibiomyia* (Thompson *et al.*, 1976: 95) (Syrphidae).
54. *Conops discalis*, p. 80. "Mexico, Amula and Omilteme in Guerrero, Teapa in Tabasco (H. H. Smith)". 1♂, 1♀ in BMNH. Now in *Physoconops* (*Physoconops*) (Papavero, 1971: 5) (Conopidae).

55. *Conops anthreas*, p. 80. "Mexico, Presidio de Mazatlan (Forrer), Acapulco and Rincon in Guerrero, Atoyac in Vera Cruz (H. H. Smith)". 5 specimens (♂♂, ♀♀) in BMNH. Now in *Physoconops (Physoconops)* (Papavero, 1971: 5) (Conopidae).
56. *Conops sequax*, p. 80. "Mexico, Amula and Omilteme in Guerrero (H. H. Smith)". 2 ♀♀ in BMNH. Not in Papavero's 1971 catalogue and without additional references (Conopidae).
57. *Physocephala sororcula*, p. 83. "Mexico, Xucumanatlan in Guerrero, 7000 feet (H. H. Smith)". 3 specimens (♂, ♀) in BMNH. Now a junior synonym of *Physocephala furcillata* (Williston, 1882) (Papavero, 1971: 7) (Conopidae).
58. *Physocephala xanthops*, p. 83. "Mexico, Venta de Zopilote in Guerrero, 2800 feet, Teapa in Tabasco (H. H. Smith)". ♂ and ♀ in BMNH. Now a junior synonym of *Physocephala inhabilis* (Walker, 1849) (Papavero, 1971: 7) (Conopidae).
59. *Zodion auricaudatum*, p. 85, pl. II, figs. 14, 14 a. "Mexico, Chilpancingo and Tepetlapa, both in Guerrero (H. H. Smith)". 3 specimens (♂, ♀) in BMNH. Now a junior synonym of *Zodion zebrinum* Bigot, 1887 (Papavero, 1971: 13) (Conopidae).
60. *Pipunculus elegantulus*, p. 87. "Mexico, Chilpancingo in Guerrero, 4600 feet (H. H. Smith)". 1 ♂ in BMNH. Now in *Pipunculus (Cephalosphaera)* (Hardy, 1966: 2) (Pipunculidae).
61. *Pipunculus flavitarsis*, p. 87. "Mexico, Chilpancingo in Guerrero, 4600 feet (H. H. Smith)". 1 ♂ in BMNH. Now in *Pipunculus (Eudorylas)* (Hardy, 1966: 4) (Pipunculidae).
62. *Pipunculus xanthopodus*, p. 87. "Mexico, Sierra de las Aguas Escondidas in Guerrero (H. H. Smith)". 2 ♂♂ in BMNH. Now *Allomethus xanthopodus* (Williston) (Hardy, 1966: 7) (Pipunculidae).
63. *Pipunculus aculeatus*, p. 88. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀ in BMNH. Now *Pipunculus willistoni* Kertész, 1900 (Hardy, 1966: 7) (Pipunculidae).
64. *Pipunculus flavicornis*, p. 88. "Mexico, Amula in Guerrero, 6000 feet (H. H. Smith)". 1 ♀ in BMNH. Now in *Allomethus* (Hardy, 1966: 7) (Pipunculidae).
65. *Callomyia bella*, p. 89. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 1 ♀ in BMNH. Apparently without change (Platypozidae).
- 1900 (all types in BMNH):
66. *Plesiastina bifasciata*, p. 217, pl. 4, figs. 1, 1 a. "Mexico, Sierra de las Aguas Escondidas in Guerrero, 7000 feet (H. H. Smith)". 3 ♂♂. Now in *Austrosymmerus* Papavero, 1977 (Papavero, 1977: 2) (Ditomyiidae).
67. *Platyura elegantula*, p. 218, pl. 4, fig. 2. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 1 ♀. Now in *Isoneuromyia* Brunetti (Papavero, 1978a: 3) (Keroplataidae).
68. *Ceroplatus bellulus*, p. 219, pl. 4, figs. 3, 3a. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂. Now in *Euceroplatus* Edwards (Papavero, 1978a: 2) (Keroplataidae).
69. *Neoglaphyoptera amabilis*, p. 219. "Mexico, Cuernavaca in Morelos, Medellin near Vera Cruz (H. H. Smith), Orizaba (H. H. Smith and F. D. Godman), 2 ♂♂, 2 ♀♀. Now in *Leia* Meigen (Papavero, 1978b: 27) (Mycetophilidae).
70. *Plecia quadrivittata*, p. 222. "Mexico, Rincon in Guerrero, 2000 feet (H. H. Smith)". 6 ♂♂, 1 ♀. Unchanged (Hardy, 1966: 5) (Bibionidae).

71. *Megarrhina grandiosa*, p. 224. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 1 ♀. Apparently a distinct species as currently interpreted in *Toxorhynchites (Lynchiella)* (Belkin, 1968: 33) (Culicidae).
72. *Ceratopogon pachymerus*, p. 224. "Mexico, Medellin near Vera Cruz (H. H. Smith)". 1 ♀. Now *Pachyhelea pachymera* (Williston) (Wirth, 1974: 53) (Ceratopogonidae).
73. *Heteromyia clavata*, p. 225. "Mexico, Vera Cruz (H. H. Smith)". 1 ♀. Unchanged (Wirth, 1974: 47) (Ceratopogonidae).
74. *Gnophomyia ferruginea*, p. 226. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Unchanged (Alexander and Alexander, 1970: 128) (Tipulidae).
75. *Eriocera fasciata*, p. 226, pl. 4, fig. 4. "Mexico, Cuernavaca in Morelos (H. H. Smith)". 2 ♂♂, 3 ♀♀. Now *Hexatoma (Eriocera) willistoni* (Alexander, 1913) (Alexander and Alexander, 1970: 105) (Tipulidae).
76. *Eriocera flavida*, p. 227. "Mexico, Cuernavaca in Morelos (H. H. Smith)". 1 ♀. Now in *Hexatoma (Eriocera)* (Alexander and Alexander, 1970: 101) (Tipulidae).
77. *Eriocera brunneipes*, p. 227, pl. 4, fig. 5. "Mexico, Orizaba (H. H. Smith and F. D. Godman)". 1 ♂. Now in *Hexatoma (Eriocera)* (Alexander and Alexander, 1970: 100) (Tipulidae).
78. *Tipula virgulata*, p. 228. "Mexico, Amecameca in Morelos (F. D. Godman)". 1 ♂. Now in *Tipula (Eumicrotipula)* (Alexander and Alexander, 1970: 31) (Tipulidae).
79. *Brachypremna similis*, p. 229. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂. Unchanged (Alexander and Alexander, 1970: 7) (Tipulidae).
80. *Berismyia nigrofemorata*, p. 230, pl. 4, fig. 7. (Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 1 ♂, 1 ♀. Unchanged (James, 1973: 5) (Stratiomyidae).
81. *Chrysochroma pulchrum*, p. 233. "Mexico, Chilpancingo and Amula in Guerrero (H. H. Smith)". 2 ♀♀. Now a junior synonym of *Himantoloba nigrifemorata* (Macquart, 1847) (James, 1973: 10) (Stratiomyidae).
82. *Chrysochroma latifrons*, p. 234. "Mexico, Chilpancingo in Guerrero (H. H. Smith)". 1 ♀. Now in *Microchrysa* (James, 1973: 17) (Stratiomyidae).
83. *Merosargus spatulatus*, p. 235. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 13 ♂♂, 4 ♀♀. Unchanged (James, 1973: 15) (Stratiomyidae).
84. *Merosargus bulbifrons*, p. 235, pl. 4, figs. 8, 8 a. "Mexico, Xucumanatlan in Guerrero, 7000 feet (H. H. Smith)". 1 ♀. Unchanged (James, 1973: 12) (Stratiomyidae).
85. *Merosargus concinnatus*, p. 235, pl. 4, fig. 9. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 1 ♂. Unchanged (James, 1973: 12) (Stratiomyidae).
86. *Ptecticus maculatus*, p. 238. "Mexico, northern Yucatan (Gaumer)". 1 ♀. Unchanged (James, 1973: 18) (Stratiomyidae).
87. *Ptecticus concinnus*, p. 238. "Mexico, Amula, Omilteme and Xucumanatlan all in Guerrero, 6000 to 8000 feet (H. H. Smith)". 2 ♂♂, 4 ♀♀. Unchanged (James, 1973: 17) (Stratiomyidae).
88. *Analcocerus hortulanus*, p. 238, pl. 4, fig. 10. "Mexico, northern Yucatan (Gaumer)". 2 ♀♀. Now in *Neanalcocerus* (James, 1973: 22) (Stratiomyidae).
89. *Campeprosopa longicornis*, p. 239, pl. 4, fig. 11. "Mexico, Omilteme in Guerrero (H. H. Smith)". 1 ♀. Now in *Analcoceroides* (James, 1973: 20) (Stratiomyidae).
90. *Hermetia ceria*, p. 242, pl. 4, fig. 13. "Mexico, Ventanas in Durango, 2000 feet (Forrer)". 1 specimen (sex?). Unchanged (James, 1973: 37) (Stratiomyidae).

91. *Chrysochlora pulchra*, p. 243. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Now in *Chrysochlorina* (James, 1973: 35) (Stratiomyidae).
92. *Cyphomyia lasiophthalma*, p. 244, pl. 4, fig. 15. "Mexico, San Blas in Jalisco? (Schumann), Acaguizotla, Dos Arroyos and Tierra Colorada in Guerrero (H. H. Smith)". 5 ♂♂. Now *Cyphomyia willistoni* (Enderlein, 1914) (James, 1973: 28) (Stratiomyidae).
93. *Cyphomyia bicarinata*, p. 244. "Mexico, Xucumanatlan in Guerrero, Cuernavaca in Morelos (H. H. Smith), Jalisco, Atoyac in Vera Cruz (Schumann)". 4 specimens (♂♂, ♀♀). Unchanged (James, 1973:25) (Stratiomyidae).
94. *Odontomyia fratella*, p. 246. "Mexico, Guadalajara in Jalisco (Höge)". 1 ♀. Now in *Labostigmina* (James, 1973: 43) (Stratiomyidae).
95. *Odontomyia concinnata*, p. 247. "Mexico, Venta de Zopilote in Guerrero (H. H. Smith)". 1 ♂. Now in *Labostigmina* (James, 1973: 42) (Stratiomyidae).
96. *Odontomyia (?) comma*, p. 247. "Mexico, Dos Arroyos in Guerrero (H. H. Smith)". 1 ♀. Now in *Labostigmina* (James, 1973: 42) (Stratiomyidae).

1901 (Types in BMNH):

97. *Euparhyphus elongatulus*, p. 249, pl. 4, fig. 14. "Mexico, Omilteme and Xucumanatlan in Guerrero, 7000 to 8000 feet (H. H. Smith)". 1♂, 1♀. Unchanged but in *Euparyphus* (James, 1973:31) (Stratiomyidae).
98. *Acanthina inornata*, p. 249, pl. 4, fig. 17. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 3 ♂♂, 1♀. Now a junior synonym of *Artemita nana* (Bellardi, 1862) (James, 1973:50) (Stratiomyidae).
99. *Lophoteles pallidipennis*, p. 250, pl. 4, fig. 16. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ?♀. Now in *Cosmariomyia* (James, 1973: 52) (Stratiomyidae).
100. *Myxosargus scutellatus*, p. 251, pl. 4, fig. 18. "Mexico, Teapa in Tabasco (H. H. Smith)". 2 ♀♀. Unchanged (James, 1973:47) (Stratiomyidae).
101. *Cynipimorpha minuta*, p. 252, pl. 4, figs. 19, 19 a. "Mexico, Chilpancingo in Guerrero (H. H. Smith)". 1 ♂. Now in *Eucynipimorpha* (James, 1973: 54) (Stratiomyidae).
102. *Pangonia pavidata*, p. 253. "Mexico, Amula in Guerrero, 6000 feet (H. H. Smith)". 6 ♂♂, 12♀♀. Now in *Esenbeckia (Ricardo)* (Fairchild, 1971:11) (Fairchild and Burger, 1994: 27) (Tabanidae).
103. *Chrysops neglectus*, p. 256. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Now a synonym of *Chrysops latifasciatus* Bellardi, 1859 (Fairchild, 1971: 32) (Fairchild and Burger, 1994: 58) (Tabanidae).
104. *Tabanus pumiloides*, p. 260, pl. 4, figs. 21, 21 a. "Mexico, Xucumanatlan and Omilteme in Guerrero, 7000 to 8000 feet (H. H. Smith)". 1 ♀. Now in *Stenotabanus (Stenotabanus)* (Fairchild, 1971:47) (Fairchild and Burger, 1994: 76) (Tabanidae).
105. *Tabanus furunculus*, p. 260. "Mexico, Tepetlapa in Guerrero (H. H. Smith), Santiago Iscuintla in Jalisco (Schumann)". 1 ♂, 1♀. Unchanged (Fairchild, 1971:93) (Fairchild and Burger, 1994: 137) (Tabanidae).
106. *Tabanus fur*, p. 261. "Mexico, Misantla (in Veracruz) (F. D. Godman)". 1 ♀. Now a synonym of *Tabanus colombensis* Macquart, 1846 (Fairchild, 1971: 90) (Fairchild and Burger, 1994: 134) (Tabanidae).

107. *Tabanus haemagogus*, p. 261. "Mexico, Temax in Northern Yucatan (Gaumer)". 6 specimens (♂♂, ♀♀). Unchanged (Fairchild, 1971: 94) (Fairchild and Burger, 1994: 139) (Tabanidae).
108. *Tabanus filiulus*, p. 261. "Mexico, Northern Yucatan (Gaumer)". 10 specimens (♂♂, ♀♀). Now a junior synonym of *Tabanus haemagogus* Williston, 1901 (Fairchild, 1971: 94) (Fairchild and Burger, 1994: 139) (Tabanidae).
109. *Dichelacera pulchra*, p. 263, pl. 4, figs. 22, 22 a. "Mexico, Rincon, Dos Arroyos, and Acapulco in Guerrero (H. H. Smith)". 2 ♂♂, 1 ♀. Unchanged (Fairchild, 1971: 63) (Fairchild and Burger, 1994: 97) (Tabanidae).
110. *Chrysopila plebeia*, p. 264. "Mexico, Omilteme and Sierra de las Aguas Escondidas in Guerrero, 8000 feet (H. H. Smith)". 3 ♂♂, 12 ♀♀. Unchanged but *Chrysopilus plebeius* (James, 1968: 4) (Rhagionidae).
111. *Chrysopila aterrima*, p. 264. "Mexico, Amula in Guerrero, 6000 feet (H. H. Smith)". 1 ♂. Unchanged but *Chrysopilus aterrimus* (James, 1968: 2) (Rhagionidae).
112. *Chrysopila invalida*, p. 265. "Mexico, Xucumanatlan in Guerrero, 7000 feet (H. H. Smith)". 1 ♂. Unchanged but *Chrysopilus invalidus* (James, 1968:3) (Rhagionidae).
113. *Chrysopila puella*, p. 265. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂. Unchanged but *Chrysopilus puellus* (James, 1968: 4) (Rhagionidae).
114. *Chrysopila nana*, p. 265. "Mexico, Teapa in Tabasco (H. H. Smith)". 3 ♂♂. Unchanged but *Chrysopilus nanus* (James, 1968: 3) (Rhagionidae).
115. *Chrysopila latifrons*, p. 266. "Mexico, Amula in Guerrero, 6000 feet (H. H. Smith)". 1 ♀. Unchanged but in *Chrysopilus* (James, 1968: 3) (Rhagionidae).
116. *Atherix concinna*, p. 266, pl. 4, figs. 23, 23 a. "Mexico, Acaguizotla and Rincon in Guerrero (H. H. Smith)". 3 specimens (♂♂, ♀♀). Now in *Suragina* (James, 1968: 6) (Rhagionidae).
117. *Exoprosopa sackeni*, p. 271. "Mexico, Hacienda de la Imagen and Venta de Zopilote in Guerrero (H. H. Smith)". 2 ♂♂, 1 ♀. Unchanged (Painter *et al.*, 1978: 41) (Bombyliidae).
118. *Exoprosopa brevirostris*, p. 272. "Mexico, Santiago Iscuintla and Guadalajara in Jalisco (Schumann)". 2 ♂♂. Unchanged (Painter *et al.*, 1978: 39) (Bombyliidae).
119. *Exoprosopa brevistylata*, p. 272. "Mexico, Acapulco in Guerrero (H. H. Smith)". 1 ♂. Unchanged (Painter *et al.*, 1978: 39) (Bombyliidae).
120. *Exoprosopa pavidata*, p. 273. "Mexico, Chilpancingo in Guerrero (H. H. Smith)". 1 ♂. Unchanged (Painter *et al.*, 1978: 41) (Bombyliidae).
121. *Stonyx melia*, p. 274, pl. 5, figs. 1, 1 a. "Mexico, Rio Papagaio (sic!) and Acapulco in Guerrero (H. H. Smith)". 7 specimens (♂♂, ♀♀). Unchanged (Painter *et al.*, 1978: 34) (Bombyliidae).
122. *Stonyx lelia*, p. 274, pl. 5, fig. 2. "Mexico, Chilpancingo in Guerrero (H. H. Smith)". 4 ♂♂. Unchanged (Painter *et al.*, 1978: 34) (Bombyliidae).
123. *Anthrax (Isopenthes) sackeniana*, p. 276. "Mexico, Amula in Guerrero (H. H. Smith)". 1 ♂. Now in *Villa (Chrysanthrax)* (Painter *et al.*, 1978: 47) (Bombyliidae).
124. *Anthrax pluricella*, p. 277, pl. 5, fig. 3. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♂. Unchanged but *A. pluricellus* (Painter *et al.*, 1978: 33) (Bombyliidae).
125. *Anthrax hirsuta*, p. 279. "Mexico, Acaguizotla in Guerrero (H. H. Smith)". Sex?. Now a junior synonym of *Villa (Paravilla) castanea* (Jaenicke, 1867) (Painter *et al.*, 1978: 50) (Bombyliidae).

126. *Anthrax diana*, p. 280. "Mexico, Acaguizotla in Guerrero (H. H. Smith)". 4 ♀♀. Now *Villa (Paravilla) dianella* Painter, 1962 (Painter *et al.*, 1978: 51) (Bombyliidae).
127. *Anthrax orbitalis*, p. 281. "Mexico, Chilpancingo, Rincon, Rio Papagaio, and Amula in Guerrero, Teapa in Tabasco (H. H. Smith), Santiago Iscuintla and San Blas in Jalisco (Schumann)". ♂♂. Now a junior synonym of *Villa (Hemipenthes) sagata* (Loew, 1869) (Painter *et al.*, 1978: 49) (Bombyliidae).
128. *Anthrax nigrofimbriata*, p. 282. "Mexico, Hacienda de la Imagen in Guerrero (H. H. Smith)". 2 specimens (?sex). Now in *Villa (Rhynchanthrax)* (Painter *et al.*, 1978: 52) (Bombyliidae).
129. *Anthrax pleuralis*, p. 282, pl. 5, fig. 5. "Mexico, Venta de Zopilote in Guerrero (H. H. Smith)". 1 ♀. Now in *Villa (Hemipenthes)* (Painter *et al.*, 1978:49) (Bombyliidae).
130. *Anthrax ceria*, p. 283. "Mexico, La Venta in Guerrero (H. H. Smith)". 1 ♂. Now in *Villa (Chrysanthrax)* (Painter *et al.*, 1978:45) (Bombyliidae).
131. *Anthrax maria*, p. 283. "Mexico, Hacienda de la Imagen y Tepetlapa in Guerrero (H. H. Smith)". 10 specimens (♂♂, ♀♀). Now in *Villa (Rhynchanthrax)* (Painter *et al.*, 1978:51) (Bombyliidae).
132. *Oncodocera analis*, p. 283. "Mexico, Xucumanatlan, Amula and Chilpancingo in Guerrero (H. H. Smith)". 10 specimens (♂♂, ♀♀). Now in *Ogcodocera* (Painter *et al.*, 1978:24) (Bombyliidae).
133. *Anisotamia fasciata*, p. 284, pl. 5, fig. 6. "Mexico, San Blas in ?Jalisco (Schumann)". 1 ♀. Now in *Bryodemina* (Painter *et al.*, 1978:24) (Bombyliidae).
134. *Bombylius io*, p. 285, pl. 5, fig. 7. "Mexico, Dos Arroyos and Acaguizotla in Guerrero (H. H. Smith)". 8 specimens (♂♂, ♀♀). Unchanged (Painter *et al.*, 1978:3) (Bombyliidae).
135. *Bombylius clio*, p. 285. "Mexico, Acaguizotla, Hacienda de la Imagen, Tierra Colorada and Rincon in Guerrero (H. H. Smith)". Numerous specimens (♂♂, ♀♀). Unchanged (Painter *et al.*, 1978:3) (Bombyliidae).
136. *Bombylius dolorosus*, p. 286, pl. 5, fig. 8. "Mexico, Dos Arroyos, Ventana de Zopilote and Tierra Colorada in Guerrero (H. H. Smith)". 10 specimens (♂♂, ♀♀). Now in *Parabombylius* (Painter *et al.*, 1978:4) (Bombyliidae).
137. *Sparnopolius diversus*, p. 287. "Mexico, Hacienda de la Imagen in Guerrero (H. H. Smith)". 1 ♂. Unchanged (Painter *et al.*, 1978:7) (Bombyliidae).
138. *Phthiria pulchella*, p. 289. "Mexico, Amula in Guerrero (H. H. Smith)". 1 ♀. Unchanged (Painter *et al.*, 1978:15) (Bombyliidae).
139. *Phthiria dolorosa*, p. 290. "Mexico, Amula in Guerrero (H. H. Smith)". 6 ♂♂. Unchanged (Painter *et al.*, 1978:15) (Bombyliidae).
140. *Phthiria sororia*, p. 291. "Mexico, Chilpancingo and Amula in Guerrero (H. H. Smith)". 15 ♀♀. Now a junior synonym of *Phthiria dolorosa* Williston, 1901 (Painter *et al.*, 1978:15) (Bombyliidae).
141. *Phthiria alterans*, p. 291. "Mexico, Sierra de las Aguas Escondidas in Guerrero, 9000 feet (H. H. Smith)". 1 ♀. Unchanged (Painter *et al.*, 1978:14) (Bombyliidae).
142. *Geron trochilides*, p. 292. "Mexico, Acaguizotla in Guerrero (H. H. Smith)". 1 ♂. Now in *Oligodranes* (Painter *et al.*, 1978:16) (Bombyliidae).
143. *Systropus dolorosus*, p. 293. "Mexico, Jalisco (Schumann), Temax in Yucatan (Gaumer)". 4 specimens (♂♂, ♀♀). Unchanged (Painter *et al.*, 1978:17) (Bombyliidae).

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144. *Systropus quadripunctatus*, p. 293. "Mexico, Northern Yucatan (Gaumer)". 1 ♀. Unchanged (Painter *et al.*, 1978:19) (Bombyliidae).
145. *Systropus pulcher*, p. 294. "Mexico, Amula in Guerrero (H. H. Smith)". 1 ♀. Unchanged (Painter *et al.*, 1978:19) (Bombyliidae).
146. *Systropus similis*, p. 294. "Mexico, Sierra de las Aguas Escondidas in Guerrero, 9000 feet (H. H. Smith)". 1 ♂, 1 ♀. Unchanged (Painter *et al.*, 1978:19) (Bombyliidae).
147. *Toxophora varipennis*, p. 294. "Mexico, Amula in Guerrero (H. H. Smith)". 1 ♀. Unchanged (Painter *et al.*, 1978:21) (Bombyliidae).
148. *Eclimus fascipennis*, p. 295, pl. 5, fig. 9. "Mexico, Tepetlapa and Chilpancingo in Guerrero (H. H. Smith)". 7 ♀♀. Now in *Thevenemyia* (Painter *et al.*, 1978:22) (Bombyliidae).
149. *Eclimus quadratus*, p. 295. "Mexico, Rincon in Guerrero (H. H. Smith)". 1 ♀. Now *Thevenemyia quadrata* (Williston) (Painter *et al.*, 1978:23) (Bombyliidae).
150. *Sphenoidoptera varipennis*, p. 296, pl. 5, fig. 10. "Mexico, Chilpancingo in Guerrero (H. H. Smith)". 2 ♀♀. Now in *Cylenia* (Painter *et al.*, 1978:23) (Bombyliidae).
151. *Amphicosmus cincturus*, p. 296, pl. 5, figs. 11, 11 a. "Mexico, Venta de Zopilote in Guerrero (H. H. Smith)". 1 ♂. Unchanged (Painter *et al.*, 1978:24) (Bombyliidae).
152. *Philopota lugubris*, p. 297, pl. 5, figs. 12, 12 a. "Mexico, Xucumanatlan and Amula in Guerrero, 6000 to 7000 feet (H. H. Smith)". 4 specimens. Without additional information (Acroceridae).
153. *Philopota dolorosa*, p. 298. "Mexico, Amula in Guerrero (H. H. Smith)". 1 specimen. Without additional information (Acroceridae).
154. *Leptogaster triangulata*, p. 299, pl. 5, figs. 13, 13 a. "Mexico, Amula in Guerrero (H. H. Smith)". 5 specimens (♂♂, ♀♀). Unchanged, but Martin (1968) presented erroneously the species as *L. triangulata* Williston (Martin, 1968: 4) (Leptogastridae, or Asilidae: Leptogastrinae).
155. *Leptogaster crocea*, p. 300. "Mexico, Acaguizotla and Omilteme in Guerrero (H. H. Smith)". 9 specimens (♂♂, ♀♀). Unchanged (Martin, 1968: 3) (Leptogastridae, or Asilidae: Leptogastrinae).
156. *Leptogaster concinnata*, p. 300. "Mexico, Omilteme and Sierra de las Aguas Escondidas in Guerrero, 8000 to 9500 feet (H. H. Smith)". 3 ♂♂. Unchanged (Martin, 1968: 3) (Leptogastridae, or Asilidae: Leptogastrinae).
157. *Leptogaster intima*, p. 300. "Mexico, Xucumanatlan in Guerrero, 7000 feet (H. H. Smith)". 15 specimens (♂♂, ♀♀). Unchanged (Martin, 1968: 3) (Leptogastridae, or Asilidae: Leptogastrinae).
158. *Leptogaster dorsalis*, p. 301. "Mexico, Xucumanatlan and Omilteme in Guerrero, 7000 to 8000 feet (H. H. Smith)". 4 ♀♀. Now in *Beameromyia* (Martin, 1968: 5) (Leptogastridae, or Asilidae: Leptogastrinae).
159. *Leptogaster macropygialis*, p. 301, pl. 4, fig. 14. "Mexico, Teapa in Tabasco (H. H. Smith)". 4 specimens (♂♂, ♀♀). Now in *Psilonyx* (Martin, 1968: 4) (Leptogastridae, or Asilidae: Leptogastrinae).
160. *Leptogaster micropygialis*, p. 301. "Mexico, Dos Arroyos, Tierra Colorada, Acaguizotla and La Venta in Guerrero (H. H. Smith)". 18 specimens (♂♂, ♀♀). Unchanged (Martin, 1968: 3) (Leptogastridae, or Asilidae: Leptogastrinae).

161. *Dicranus jaliscoensis*, p. 302, pl. 5, fig. 15. "Mexico, San Blas (in Nayarit?), Santiago Iscuintla and Guadalajara in Jalisco (Schumann)". 5 specimens (♂♂, ♀♀) Unchanged (Martin and Papavero, 1970: 17) (Asilidae).
162. *Ospriocerus diversus*, p. 303, pl. 5, fig. 16. "Mexico, Venta de Zopilote in Guerrero (H. H. Smith)". 2 ♀♀. Now in *Stenopogon (Ospriocerus)* (Martin and Papavero, 1970: 14) (Asilidae).
163. *Scleropogon lugubris*, p. 304. "Mexico, Dos Arroyos in Guerrero". 1 ♀. Now in *Stenopogon (Stenopogon)* (Martin and Papavero, 1970: 12) (Asilidae).
164. *Holopogon pulcher*, p. 306, pl. 5, fig. 18. "Mexico, Venta de Zopilote in Guerrero (H. H. Smith)". 3 ♂♂. Unchanged (Martin and Papavero, 1970: 19) (Asilidae).
165. *Holopogon violaceus*, p. 306, pl. 5, fig. 17. "Mexico, Venta de Zopilote in Guerrero (H. H. Smith)". 1 ♀. Unchanged (Martin and Papavero, 1970: 19) (Asilidae).
166. *Holopogon dejectus*, p. 306. "Mexico, Venta de Zopilote in Guerrero (H. H. Smith)". 1 ♀. Now in *Heteropogon* (Martin and Papavero, 1970: 20) (Asilidae).
167. *Heteropogon rejectus*, p. 307. "Mexico, Venta de Zopilote in Guerrero (H. H. Smith)". 1 ♀. Unchanged (Martin and Papavero, 1970: 20) (Asilidae).
168. *Psilocurus caudatus*, p. 308, pl. 5, fig. 20. "Mexico, Chilpancingo, Amula and Tepetlapa in Guerrero (H. H. Smith)". 6 ♂♂, 8 ♀♀. Unchanged (Martin and Papavero, 1970: 10) (Asilidae).
169. *Damalis occidentalis*, p. 309, pl. 5, fig. 21. "Mexico, Tepetlapa in Guerrero (H. H. Smith)". Santiago Iscuintla in Jalisco (Schumann)". 1 ♂, 2 ♀♀. Now in *Orrhodops* (Martin and Papavero, 1970: 8) (Asilidae).
170. *Triclis argentifacies*, p. 310, pl. 5, fig. 22. "Mexico, Chilpancingo in Guerrero (H. H. Smith)". 6 ♂♂. Now in *Perasis* (Martin and Papavero, 1970: 10) (Asilidae).
171. *Saropogon pulcherrima*, p. 312, pl. 6, fig. 3. "Mexico, Venta de Zopilote in Guerrero (H. H. Smith)". 4 specimens (♂♂, ♀♀). Unchanged, but *S. pulcherrimus* (Martin and Papavero, 1970: 36) (Asilidae).
172. *Taracticus similis*, p. 312. "Mexico, Omilteme and Sierra de las Aguas Escondidas in Guerrero, 8000-9000 feet (H. H. Smith)". 15 specimens (♂♂, ♀♀). Unchanged (Martin and Papavero, 1970: 35) (Asilidae).
173. *Taracticus nigrimystaceus*, p. 313, pl. 5, fig. 23. "Mexico, Xucumanatlan in Guerrero, 7000 feet (H. H. Smith)". 1♂, 1 ♀. Unchanged (Martin and Papavero, 1970: 35) (Asilidae).
174. *Taracticus nigripes*, p. 313. "Mexico, Xucumanatlan, Omilteme and Chilpancingo in Guerrero (H. H. Smith)". Numerous specimens (♂♂, ♀♀). Unchanged (Martin and Papavero, 1970: 35) (Asilidae).
175. *Cophura pulchella*, p. 314, pl. 5, fig. 24. "Mexico, Venta de Zopilote in Guerrero (H. H. Smith)". 7 specimens (♂♂, ♀♀). Unchanged (Martin and Papavero, 1970: 34) (Asilidae).
176. *Cophura humilis*, p. 315. "Mexico, Tepetlapa in Guerrero (H. H. Smith)". 1 ♂, 1 ♀. Now *Cophura willistoni* Pritchard, 1943 (Martin and Papavero, 1970: 34) (Asilidae).
177. *Atomosia anonyma*, p. 316. "Mexico, Chilpancingo in Guerrero (H. H. Smith)". 6 ♀♀. Unchanged (Martin and Papavero, 1970: 46) (Asilidae).
178. *Atonia brevistylata*, p. 316, pl. 6, fig. 1. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Now in *Atoniomyia* (Martin and Papavero, 1970: 54) (Asilidae).

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179. *Aphestia mexicana*, p. 317, pl. 6, fig. 2. "Mexico, Amula in Guerrero, Atoyac in Vera Cruz (H. H. Smith)". 2 ♀♀ (one teneral). Unchanged (Martin and Papavero, 1970: 50) (Asilidae).
180. *Laphria coerulea*, p. 317. "Mexico, Atoyac in Vera Cruz (Schumann)". 1 ♂. Now *Laphria (Laphria) willistoniana* Enderlein, 1914 (Martin and Papavero, 1970: 38) (Asilidae).
181. *Laphria marginalis*, p. 318. "Mexico, Atoyac in Vera Cruz (Schumann)". 1 ♀. Unchanged (Martin and Papavero, 1970: 38) (Asilidae).
182. *Nusa rubida*, p. 318. "Mexico, Atoyac in Vera Cruz (Schumann)". 1 ♂, 1 ♀. Now in *Andrenosoma (Andrenosoma)* (Martin and Papavero, 1970: 43) (Asilidae).
183. *Nusa sexpunctata*, p. 319, pl. 6, fig. 4. "Mexico, Amula in Guerrero (H. H. Smith)". 2 ♂♂. Now in *Andrenosoma (Andrenosoma)* (Martin and Papavero, 1970: 43) (Asilidae).
184. *Mallophora aeaca*, p. 319. "Mexico, Atoyac in Vera Cruz (Schumann), 1 ♂. Unchanged (Martin and Papavero, 1970: 72) (Asilidae).
185. *Mallophora trichostica*, p. 320. "Mexico, Atoyac in Vera Cruz (Schumann)". 1 ♂, 1 ♀. Unchanged (Martin and Papavero, 1970: 76) (Asilidae).
186. *Erax concinnatus*, p. 323. "Mexico, Acaguizotla and Rincon in Guerrero (H. H. Smith)". 10 specimens (♂♂, ♀♀). Now *Efferia concinnata* (Williston) (Martin and Papavero, 1970: 64) (Asilidae).
187. *Erax sagax*, p. 324. "Mexico, Santiago Iscuintla in Jalisco (Schumann)". 1 ♂. Now in *Efferia* (Martin and Papavero, 1970: 68) (Asilidae).
188. *Erax splendens*, p. 325, pl. 6, fig. 5. "Mexico, San Blas in ?Jalisco (Schumann)". 1 ♂. Now in *Efferia* (Martin and Papavero, 1970: 68) (Asilidae).
189. *Erax disjunctus*, p. 326. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♂. Now a junior synonym of *Eicherax nigripes* (Bellardi, 1861) (Martin and Papavero, 1970: 70) (Asilidae).
190. *Erax pavidus*, p. 326. "Mexico, Xucumanatlan in Guerrero, 7000 feet (H. H. Smith)". 1 ♂. Now *Efferia pavida* (Williston) (Martin and Papavero, 1970: 67) (Asilidae).
191. *Erax dolichogaster*, p. 326, pl. 6, fig. 6. "Mexico, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". 1 ♂. Now a junior synonym of *Efferia loewi* (Bellardi, 1862) (Martin and Papavero, 1970: 66) (Asilidae).
192. *Asilus (Asilus) tenebrosus*, p. 328. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 1 ♂, 1 ♀. Now in *Machimus (Machimus)* (Martin and Papavero, 1970: 86) (Asilidae).
193. *Asilus (Heligmoneura) xanthocerus*, p. 329. "Mexico, Dos Arroyos, Rio Papagaio, Venta de Zopilote and Tierra Colorada in Guerrero (H. H. Smith)". 25 specimens (♂♂, ♀♀). This species represents an undescribed genus (Martin and Papavero, 1970: 91) (Asilidae).
194. *Asilus (Heligmoneura) melanocerus*, p. 329. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 8 specimens (♂♂, ♀♀). Now in *Machimus ((Tolmerus)* (Martin and Papavero, 1970: 86) (Asilidae).
195. *Asilus (Heligmoneura) dolichomerus*, p. 329. "Mexico, Omilteme, Sierra de las Aguas Escondidas and Amula in Guerrero, 6000 to 9500 feet (H. H. Smith)". 35 specimens (♂♂, ♀♀). Now in *Machimus (Tolmerus)* (Martin and Papavero, 1970: 86) (Asilidae).

196. *Asilus (Neoitamus) nigrocaudatus*, p. 329. "Mexico, Omilteme and Xucumanatlan in Guerrero, 7000 to 8000 feet (H. H. Smith)". 8 specimens (♂♂, ♀♀). Now in *Machimus (Tolmerus)* (Martin and Papavero, 1970: 86) (Asilidae).
197. *Asilus (Neoitamus) capillatus*, p. 330. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 6 specimens (♂♂, ♀♀). Now in *Machimus (Tolmerus)* (Martin and Papavero, 1970: 86) (Asilidae).
198. *Asilus (?Machimus) anonymus*, p. 330. "Mexico, Omilteme and Sierra de las Aguas Escondidas in Guerrero, 8000 to 9500 feet (H. H. Smith)". 35 specimens (♂♂, ♀♀). Now in *Machimus (Tolmerus)* (Martin and Papavero, 1970: 86) (Asilidae).
199. *Asilus (Tolmerus) alterus*, p. 330. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 6 specimens (♂♂, ♀♀). Now in *Machimus (Machimus)* (Martin and Papavero, 1970: 85) (Asilidae).
200. *Asilus* (subgenus?) *lestes*, p. 331. "Mexico, Chilpancingo in Guerrero (H. H. Smith)". 2 ♀♀. An unrecognized species (Martin and Papavero, 1970: 89) (Asilidae).

4. THE SPECIES DESCRIBED BY ALDRICH

John Merton Aldrich (Fig. 3) was born at Rochester, Olmster Co., Minnesota, on 28 January 1866, where he spent his childhood. In 1881, at the age of 15, his family moved to eastern South Dakota, near the Minnesota state border. He had a very brief high school career in 1884 and 1885, and later attended the State Agricultural College at Brookings, South Dakota, where he worked his own way through school. It was a new school in another country, and began on a very small scale. However, most of the students through were working their way and eager to learn, while the faculty was composed of friendly and helpful people. Aldrich received in three years of this kind of atmosphere an intellectual impetus which is not always imparted in the largest universities. Aldrich did not receive any important body of facts to carry away. His progress through the institution was accelerated by the desire of the President to have a graduating class in 1888, as a result of which he received his degree in three years. Entomology first came within his ken in the last term of college, when a course was given by Prof. I. H. Orcutt, a medical doctor who had been put on the faculty and given a large field in biology. The worthy doctor had never studied entomology himself, but he was wise enough to turn the students loose with the insects, and Aldrich made a considerable collection and enjoyed the course immensely, but without the least thought that he might continue the subject, still less find his life work in it.

After graduating, still at sea in regard to his next move, Aldrich, like a number of the other students, decided to canvass for a book to get a little ready money. Three days of this was enough to convince him that he was not made to be a book agent, and he went back to his father's farm to assist in the harvest. A few days later, while picking up wheat, the idea crossed his mind that Professor Orcutt, who had become entomologist of the newly established Agricultural Experiment Station

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in addition to his teaching, duties, really needed an assistant, and that an opening here might lead to an attractive field of activity. So he wrote to Doctor Orcutt, who consulted the President and wrote back that young Aldrich should study entomology through the winter, and in the spring they would see what could be done.



Figure 3

John Merton Aldrich. Photograph property of N. Papavero

With this much encouragement the young man taught a term of school to get a little money and in late fall made his way to the University of Minnesota to take up entomology again. This university had then about 500 students, ranking well in size among the western institutions. President Cyrus Northrup, after the manner of the time, interviewed all the new students personally; he said they had no courses in entomology, but out at the Experiment Station at St. Anthony Park they had a very able entomologist, Otto Lugger, who would perhaps give a student private instructions during the winter. So Aldrich went out to St. Anthony Park armed with a letter from the President, and was readily accepted as a student by Lugger. Arrangements were made to eat at the new School of Agriculture nearby, and sleeping accommodations were found in a cool room used by laborers in summer. Lugger originally was a German coleopterist and had a fine collection well mounted; he had been employed by Riley in Missouri, and after some years had been in the Division of Entomology staff in Washington for a short time before coming to Minnesota a year or two before 1888. The winter's work leaned rather heavily on Leconte and Horn's "*Classification of the Coleoptera of North America*", but the student could not fail to absorb some of the enthusiasm of the teacher, who was a born naturalist.

In the spring, after considerable delay, the young aspirant was given a three months' engagement at the Agricultural College at Brookings, at \$40.00 a month. In the fall he was put on the staff with an annual appointment at \$500.00, with the understanding that he would devote his winters to study.

Where to go to study entomology in the fall of 1889 was one of the first questions that arose, and it was decided in favor of the Michigan Agricultural College; there was very little choice at that time, especially as the young student had not heard of Cornell University except in very vague terms. In November he started for Lansing, Mich., and spent the winter with a group of ten young men, who, under Prof. A. J. Cook, were doing what was then believed to be advanced work in entomology. Prof. Cook was an excellent teacher and a keen practical man of affairs, with tremendous energy. He advised young Aldrich to select a single order as a specialty, and to proceed at once to get together a library and a collection; he also suggested the Diptera as a large order in which there were but two workers (Williston and Coquillett) at that time in the country. The advice was accepted, and the library and collection duly begun, in the spring of 1890. Williston sent him his reprints, as did Coquillett and Osten Sacken, and he began buying at an alarming rate out of his small salary.

Returning to South Dakota for the year's work, Aldrich collected as many Diptera as possible, and arranged in the fall with Professor Hagen to spend the following winter at the Museum of Comparative Zoology at Harvard in a study of the Loew-Osten Sacken collection of Diptera, then the only one of any importance

in the United States. In November he started east with this objective in view, first stopping in Ames, Iowa, to become acquainted with Osborn and Gillette. He accompanied both of the entomologists to Champaign, Illinois, to attend a meeting of the recently organized Association of Economic Entomologists. Professor Osborn shared his sleeping-car berth en route with the impecunious student, a characteristic act of kindness never forgotten.

Arriving at Harvard University, he was informed by the registrar, Frank Bolles, that Professor Hagen had suffered a stroke with paralysis, and his department had been closed, making it impossible for any one to study the collections. This was a severe blow, as it was hard to arrange any other plan for the winter without far exceeding the available funds of the student. In explaining his situation to the sympathetic registrar, Aldrich happened to allude to his graduation from the South Dakota Agricultural College; this had a remarkable effect, for Harvard University at that time was very ambitious to develop a strong graduate department and any sort of a degree meant a great deal to a student. So Mr. Bolles began planning to secure from Alexander Agassiz some concession which would permit Aldrich to remain. Following the directions of Bolles, he went to Agassiz's door expecting to see him, but was kept waiting outside while a secretary went in and explained his broken plans. After a time she came back and opened the door sufficiently to say that Mr. Agassiz could do nothing about the matter. Mr. Bolles later interviewed Agassiz himself with no results, and a letter of explanation from Aldrich to Agassiz, suggested by Bolles, brought out a printed postal card denying the request.

Forced to abandon his winter's plans, Aldrich started for Washington to see the collections there, but on the way stopped at Brown University to see Professor Packard, who was most friendly and hospitable, and took the young entomologist home to dinner, after which they spent the evening in the library, and Packard showed materials for future publications, which he was preparing. It was the first glimpse of real science and made a profound impression on the westerner.

Arriving in Washington early one morning in late November, Aldrich waited for the opening of business and pawned his watch for \$5.00, after which he ate breakfast and shortly made his way to the Division of Entomology. Doctor Howard took him in charge, suggested a place to stay and arranged for his work in the National Museum, where the collection of insects was. The main part of the collection of Diptera was in the Syrphidae, where Williston's types were deposited. With these and such other material as had been accumulated, Aldrich spent three profitable weeks. A meeting of the Entomological Society of America occurred in this period, which he attended on the invitation of Doctor Howard. It was in a private house, and the small room was soon so full of tobacco smoke that at the conclusion the visitor was obliged to seek fresh air, without sharing in the social

hour which was then an outstanding feature. His money exhausted, Aldrich returned home and spent the remainder of the winter classifying his flies with the help of the library he had accumulated.

The following winter was spent at home, as his collections and library had then assumed enough importance to justify all the time he could spend upon them.

In the summer of 1892 he had his first real collecting trip, a small appropriation having been secured for a trip to the Black Hills during some three or four weeks. In the Hills he joined a party from the University of Nebraska, under the management of Professor Bruner.

Conditions in the college had become disturbed, owing to factional strife; Professor Orcutt had become involved as an opponent of the President. In November several removals from the faculty took place, and among those to go were Orcutt and Aldrich. It did not take a young dipterist of those days long to decide that the proper course lay in joining Williston in the University of Kansas; so about New Year's he arrived at Lawrence, where Williston received him with open arms and he spent the rest of the year adding a little other work to his main study of Diptera. It was in the last of June, after the close of the college year, that he was appointed Professor of Biology in the University of Idaho (1897).

Aldrich then married Ellen Row, of Brookings, South Dakota, and moved to Moscow, Idaho. The loss of his wife and infant son four years later caused him to plunge most deeply in to his dipterological work, and he began his card catalogue of the literature on Diptera, a project to which he contributed almost daily until his last illness. By 1905, when this catalogue had reached publication size and was about ready for submission to the Smithsonian Institution, Aldrich married Della Smith, of Moscow, Idaho, and receiving sabbatical leave of absence from Idaho went to Stanford University for a year. His Ph. D. degree was awarded by Stanford in 1906. Fortunately Aldrich had moved his collection and library of Diptera to his father's house, because during his absence the University of Idaho burned to the ground. Idaho's loss proved to be the nation's gain. Dr. Howard immediately appointed Aldrich to the Bureau of Entomology. The death of Frederick Knab in 1918 made it necessary to transfer Aldrich to the National Museum, where he was appointed Custodian of Diptera and Associate Curator.

In 1928 Aldrich presented to the National Museum his personal collection of Diptera, numbering 45,000 specimens and 4,000 named species. With this he donated the unique and extensive card catalogue of Diptera. This index was the source of information of all the American Diptera, and with its cross-references to synonymy was invaluable to all workers. His library was the most complete assemblage of books and articles on Diptera.

Aldrich contributed many papers to the knowledge of the Diptera, and especially the chapter on Dolichopodidae to Williston's Manual (1908) and to the *Biologia*

Centrali-Americana (1901). He also published on the Dolichopodidae and Phoridae for the "*Diptera of St. Vincent*" (1896). His *Catalogue of North American Diptera* (1905) will remain forever as one of the monuments in dipterology (Aldrich, 1930).

Aldrich died on 27 May 1934 (Melander, 1934).

The following species of Mexican Dolichopodidae were described by Aldrich in the *Biologia Centrali-Americana* (1901):

1. *Polymedon argentatus*, p. 334, pl. 6, fig. 7. "Mexico, Cuernavaca in Morelos (H. H. Smith)". 1 ♂. Now in *Tachytrechus* (Robinson, 1970: 53) (Dolichopodidae).
2. *Polymedon nimius*, p. 334, pl. 6, fig. 8, 8 a-c, 9. "Mexico, Omilteme and Sierra de las Aguas Escondidas in Guerrero, 7000-8000 feet (H. H. Smith)". 13 ♂♂, 12 ♀♀. Now in *Tachytrechus* (Robinson, 1970: 55) (Dolichopodidae).
3. *Polymedon triangularis*, p. 335. "Mexico, Cuernavaca in Morelos (H. H. Smith)". 1 ♂. Now in *Tachytrechus* (Robinson, 1970: 56) (Dolichopodidae).
4. *Hercostomus flavipes*, p. 336, pl. 6, fig. 17. "Mexico, Omilteme and Amula in Guerrero (H. H. Smith)". 4 ♂♂. Now in *Paraclius* (Robinson, 1970: 48) (Dolichopodidae).
5. *Pelastoneurus hamatus*, p. 338, pl. 6, fig. 12. "Mexico, Mexico City (H. H. Smith)". 1 ♂, 2 ♀♀. Unchanged (Robinson, 1970: 50) (Dolichopodidae).
6. *Pelastoneurus bigeminatus*, p. 338, pl. 6, fig. 13. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". Numerous ♂♂ and ♀♀. Unchanged (Robinson, 1970: 50) (Dolichopodidae).
7. *Paraclius femoratus*, p. 340. "Mexico, Vera Cruz; Teapa and Frontera in Tabasco (H. H. Smith)". 2 ♂♂, 6 ♀♀. Unchanged (Robinson, 1970: 48) (Dolichopodidae).
8. *Paraclius humeralis*, p. 340, pl. 6, fig. 10. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 2 ♂♂, 1 ♀♀. Now in *Tachytrechus* (Robinson, 1970: 54) (Dolichopodidae).
9. *Paraclius venustus*, p. 340, pl. 6, fig. 11. "Mexico, Teapa in Tabasco (H. H. Smith)". Numerous specimens (♂♂, ♀♀). Unchanged (Robinson, 1970: 49) (Dolichopodidae).
10. *Sarcionus flavicoxa*, p. 341, pl. 6, figs. 15, 15 a. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂, 1 ♀. Unchanged (Robinson, 1970: 52) (Dolichopodidae).
11. *Phylarchus tripartitus*, p. 342, pl. 6, fig. 16. "Mexico, Vera Cruz (H. H. Smith)". 2 ♀♀. Now in *Proarchus* (Robinson, 1970: 52) (Dolichopodidae).
12. *Syntormon quadratus*, p. 342, pl. 6, figs. 18, 18 a. "Mexico, Mexico City (H. H. Smith)". 2 ♂♂, 2 ♀♀. Unchanged (Robinson, 1970: 45) (Dolichopodidae).
13. *Parasyntormon wheeleri*, p. 343, pl. 6, fig. 19. "Mexico, Mexico City (H. H. Smith)". 4 ♂♂, 2 ♀♀. Unchanged (Robinson, 1970: 41) (Dolichopodidae).
14. *Sympycnus angustipennis*, p. 344, pl. 6, fig. 20. "Mexico, Orizaba (in Veracruz) (H. H. Smith)". 1 ♂, 1 ♀. Unchanged (Robinson, 1970: 41) (Dolichopodidae).
15. *Sympycnus varipes*, p. 344. "Mexico, Omilteme in Guerrero (H. H. Smith)". 1 ♂. Unchanged (Robinson, 1970: 45) (Dolichopodidae).
16. *Sympycnus coxalis*, p. 344, pl. 6, fig. 21. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂. Now in *Pelorocephalus* (Robinson, 1970: 26) (Dolichopodidae).

17. *Diaphorus deceptivus*, p. 346. "Mexico, Omilteme in Guerrero, Medellin in Vera Cruz (H. H. Smith)". 3 ♂♂, 5 ♀♀. Now a junior synonym of *Diaphorus (Diaphorus) subsejunctus* Loew, 1866 (Robinson, 1970: 34) (Dolichopodidae).
18. *Diaphorus nigrescens*, p. 346. "Mexico, Chilpancingo, Omilteme and Sierra de las Aguas Escondidas in Guerrero (H. H. Smith)". 1 ♂, 3 ♀♀. Unchanged (Robinson, 1970: 34) (Dolichopodidae).
19. *Chrysotus teapanus*, p. 347. "Mexico, Teapa in Tabasco (H. H. Smith)". 7 ♂♂, 3 ♀♀. Unchanged (Robinson, 1970: 31) (Dolichopodidae).
20. *Eutarsus loewi*, p. 349. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂. Now in *Symbolia* (Robinson, 1970: 37) (Dolichopodidae).
21. *Thrypticus pusillus*, p. 349. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂. Unchanged (Robinson, 1970: 22) (Dolichopodidae).
22. *Psilopus bifimbriatus*, p. 353. "Mexico, Teapa in Tabasco (H. H. Smith)". 3 ♂♂. Now in *Condylostylus* (Robinson, 1970: 4) (Dolichopodidae).
23. *Psilopus praestans*, p. 354. "Mexico, Teapa in Tabasco (H. H. Smith)". 2 ♂♂. Now in *Condylostylus* (Robinson, 1970: 10) (Dolichopodidae).
24. *Psilopus ciliipes*, p. 355, pl. 6, fig. 22. "Mexico, Acapulco, Tierra Colorada (in Guerrero); Medellin, Vera Cruz (in Veracruz); Cuernavaca (in Morelos) (H. H. Smith); northern Yucatan (Gaumer)". ♂♂, ♀♀. Now a junior synonym of *Condylostylus chrysoprasi* (Walker, 1849) (Robinson, 1970: 5) (Dolichopodidae).
25. *Psilopus inornatus*, p. 356. "Mexico, Tepetlapa in Guerrero, Cuernavaca in Morelos (H. H. Smith)". ♂, ♀. Now in *Condylostylus* (Robinson, 1970: 8) (Dolichopodidae).
26. *Psilopus triseriatus*, p. 356. "Mexico, Cuernavaca in Morelos, Teapa in Tabasco (H. H. Smith); Brazil (Rio de Janeiro)". 5 ♂♂ from Mexico, 1 ♂ from Brazil. Now in *Condylostylus* (Robinson, 1970: 13) (Dolichopodidae).
27. *Psilopus atricauda*, p. 357. "Mexico, Teapa in Tabasco, Fortin in Vera Cruz (H. H. Smith)". 5 ♂♂. Now in *Condylostylus* (Robinson, 1970: 3) (Dolichopodidae).
28. *Psilopus coxalis*, p. 357. "Mexico, Misantla (in Veracruz) (F. D. Godman)". 1 ♂. Now in *Condylostylus* (Robinson, 1970: 5) (Dolichopodidae).
29. *Psilopus genualis*, p. 358. "Mexico, Chilpancingo in Guerrero (H. H. Smith)". 1 ♂. Now in *Condylostylus* (Robinson, 1970: 7) (Dolichopodidae).
30. *Psilopus purpuratus*, p. 358. "Mexico, Cuernavaca in Morelos, Tepetlapa and Chilpancingo in Guerrero (H. H. Smith)". 1 ♂. Now in *Condylostylus* (Robinson, 1970: 11) (Dolichopodidae).
31. *Psilopus atrolamellatus*, p. 359. "Mexico, Teapa in Tabasco (H. H. Smith)". 10 ♂♂. Now in *Condylostylus* (Robinson, 1970: 4) (Dolichopodidae).
32. *Psilopus similis*, p. 259. "Mexico, Venta de Zopilote in Guerrero, Cuernavaca in Morelos, Medellin near Vera Cruz, Teapa and Frontera in Tabasco (H. H. Smith), Orizaba (H. H. Smith and F. D. Godman), northern Yucatan (Gaumer), Brazil, Rio de Janeiro (Williston)". ♂♂. Now in *Condylostylus* (Robinson, 1970: 11) (Dolichopodidae).
33. *Psilopus depressus*, p. 359. "Mexico, Teapa and Frontera in Tabasco (H. H. Smith)". 5 ♂♂. Now in *Condylostylus* (Robinson, 1970: 6) (Dolichopodidae).
34. *Psilopus barbatus*, p. 359. "Mexico, Amula, Xucumanatlan and Chilpancingo in Guerrero (H. H. Smith), Brazil, Rio de Janeiro". ♂♂, ♀♀. Now in *Condylostylus* (Robinson, 1970: 4) (Dolichopodidae).

35. *Psilopus nobilissimus*, p. 360, pl. 6, fig. 23. "Mexico, Chilpancingo and Tepetlapa in Guerrero, Cuernavaca in Morelos, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith), northern Yucatan (Gaumer)". ♂♂ and ♀♀. Now *Chrysosoma nobilissimum* (Aldrich) (Robinson, 1970: 2) (Dolichopodidae).
36. *Psilopus argentatus*, p. 361. "Mexico, Tierra Colorada in Guerrero, Teapa in Tabasco (H. H. Smith)". 1 ♂, 1 ♀. Now in *Condylostylus* (Robinson, 1970: 3) (Dolichopodidae).
37. *Psilopus hirtipes*, p. 361. "Mexico, Omilteme in Guerrero (H. H. Smith)". 4 specimens (♂♂, ♀♀). Now in *Condylostylus* (Robinson, 1970: 7) (Dolichopodidae).
38. *Psilopus purpureus*, p. 362. "Mexico, Medellin near Vera Cruz, Tierra Colorada in Guerrero, Frontera and Teapa in Tabasco (H. H. Smith)". ♂♂, ♀♀. Now in *Condylostylus* (Robinson, 1970: 11) (Dolichopodidae).
39. *Psilopus forcipatus*, p. 362. "Mexico, Teapa in Tabasco (H. H. Smith)". 2 ♂♂. Now in *Condylostylus* (Robinson, 1970: 7) (Dolichopodidae).
40. *Psilopus interceptus*, p. 363. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂. Now in *Condylostylus* (Robinson, 1970: 8) (Dolichopodidae).
41. *Psilopus pennifer*, p. 363. "Mexico, Teapa in Tabasco (H. H. Smith)". ♂, ♀. Now in *Condylostylus* (Robinson, 1970: 10) (Dolichopodidae).
42. *Psilopus flavicoxa*, p. 363. "Mexico, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". 2 ♂♂. Now in *Condylostylus* (Robinson, 1970: 7) (Dolichopodidae).
43. *Psilopus clavipes*, p. 363. "Mexico, Tierra Colorada in Guerrero (H. H. Smith)". 1 ♂. Now in *Condylostylus* (Robinson, 1970: 5) (Dolichopodidae).
44. *Psilopus tonsus*, p. 364. "Mexico, Frontera in Tabasco (H. H. Smith)". 1 ♂. Now in *Condylostylus* (Robinson, 1970: 13) (Dolichopodidae).
45. *Gnamptopsilopus infumatus*, p. 365. "Mexico, Amula and Chilpancingo in Guerrero (H. H. Smith)". 3 ♂♂, 1 ♀. Now in *Sciapus* (Robinson, 1970: 15) (Dolichopodidae).
46. *Gnamptopsilopus mexicanus*, p. 365. "Mexico, Medellin near Vera Cruz, Teapa in Tabasco (H. H. Smith)". 2 ♂♂. Now in *Sciapus* (Robinson, 1970: 16) (Dolichopodidae).
47. *Gnamptopsilopus ciliipennis*, p. 366, pl. 6, fig. 24. "Mexico, Omilteme in Guerrero (H. H. Smith)". 1 ♂. Now in *Sciapus* (Robinson, 1970: 15) (Dolichopodidae).

5. THE SPECIES DESCRIBED BY WHEELER AND MELANDER

The Empididae portion of the *Biologia Centrali-Americana* (1901) was studied by William Morton Wheeler and Axel Leonard Melander (18 new species described from Mexico).

William Morton Wheeler was born in Milwaukee, Wisconsin, March 19, 1865. He became known as a specialist in embryology, morphology and anatomy of insects, and as a foremost authority on ants and other social insects. The first 19 years of his life were spent in his native city, where he graduated from the German-American Normal College in 1884. On February 7 of that year he entered Ward's Establishment of Natural History, Rochester, N. Y., where he remained until he returned to Milwaukee, June 24, 1885, to become a teacher of German and

physiology in the High School under Geo. W. Peckham, with whom he later collaborated on a paper on spiders and helped on wasps. During this period he spent much of his time studying embryology until 1890. On September 19, 1887, he was appointed custodian of the Milwaukee Public Museum where he remained until August 29, 1890, when he received a fellowship at Clark University under C. O. Withman on October first of that year. Here he also acted as an assistant in zoology and received his Ph. D. degree in 1892. All this time he was instructor in embryology at the University of Chicago, where he remained until 1895, becoming assistant professor in 1897. During 1893-1894 he studied abroad at Würzburg and Liège and was also the occupant of the Smithsonian table at the Naples Zoological Station. According to his own works, his association with Peckham, Whitman and William Patton made him a morphologist. Therefore much of his early work in embryology and morphology is in the general field of zoology. He was professor of zoology at the University of Texas, 1899-1903; curator of invertebrate zoology, American Museum of Natural History, 1903-1908; honorary fellow and research associate since that time; professor of economic entomology, Bussey Institute, 1908-1926; and professor of entomology since 1926, becoming the dean of the Bussey Institute 1908-1930. He was elected fellow of the American Academy of Arts and Science, American Association for the Advancement of Sciences, Washington Academy of Science, New York Academy of Sciences, Texas Academy of Sciences; member of the American Morphological Society, American Society of Naturalists, American Society of Zoologists (President of the East Branch, 1908), National Academy of Sciences, American Philosophical Society of America; Entomological Society of America (President, 1908) and the Ecological Society of America; corresponding member of the Philadelphia Academy of Science, Société Biologique de France, and honorary member of the Société Entomologique de France.

Axel Leonard Melander was born in Chicago in 1878 and graduated from the University of Texas in 1901. From 1904 to 1926 he was head of the Department of Zoology at Washington State College, and after that, head of the Department of Biology at the College of the City of New York.

The species of Mexican Empididae described by these authors in the *Biologia Centrali-Americana* (1901) are the following:

1. *Empis chichimeca*, p. 368. "Mexico, Amula in Guerrero, 6000 feet (H. H. Smith)". 2 ♂♂, 7 ♀♀. Now in *Lampremis* (Smith, 1967: 19) (Empididae).
2. *Empis rubida*, p. 368. "Mexico, Chilpancingo in Guerrero (H. H. Smith)". 1 ♀. Now in *Opeatocerata* (Smith, 1967: 18) (Empididae).
3. *Empis montezuma*, p. 369. "Mexico, Santiago in Jalisco (Schumann)". 1 ♂. Unchanged (Smith, 1967: 23) (Empididae).

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4. *Empis azteca*, p. 369. "Mexico, Amula in Guerrero, 6000 feet (H. H. Smith)". 1 ♀. Unchanged (Smith, 1967: 21) (Empididae).
5. *Empis annulipes*, p. 369. "Mexico, Amula in Guerrero, 6000 feet (H. H. Smith)". 6 ♀♀. Unchanged (Smith, 1967: 21) (Empididae).
6. *Empis atrifemur*, p. 370. "Mexico, Xucumanatlan in Guerrero, 7000 feet (H. H. Smith)". 1 ♀. Unchanged (Smith, 1967: 21) (Empididae).
7. *Empis xochitl*, p. 370. "Mexico, Chilpancingo in Guerrero, 4600 feet (H. H. Smith)". 1 ♀. Unchanged (Smith, 1967: 25) (Empididae).
8. *Empis dolorosa*, p. 370. "Mexico, Amula in Guerrero, 6000-8000 feet (H. H. Smith)". 2 ♂♂. Unchanged (Smith, 1967: 22) (Empididae).
9. *Rhamphomyia cyanogaster*, p. 371. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 1 ♂. Unchanged (Smith, 1967: 25) (Empididae).
10. *Rhamphomyia furcifer*, p. 371. "Mexico, Omilteme in Guerrero, 7000-8000 feet (H. H. Smith)". ♂, ♀. Unchanged (Smith, 1967: 26) (Empididae).
11. *Rhamphomyia tolteca*, p. 371. "Mexico, Sierra de las Aguas Escondidas in Guerrero, 9500 feet (H. H. Smith)". 1 ♂. Unchanged (Smith, 1967: 26) (Empididae).
12. *Hybos typicus*, p. 373. "Mexico, Omilteme and Sierra de las Aguas Escondidas in Guerrero, 8000 to 9500 feet (H. H. Smith)". 2 ♂♂, 3 ♀♀. Unchanged (Smith, 1967: 11) (Empididae).
13. *Hybos mellipes*, p. 373. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 1 ♀. Unchanged (Smith, 1967: 11) (Empididae).
14. *Hybos spinicosta*, p. 374. "Mexico, Sierra de las Aguas Escondidas in Guerrero, 9500 feet (H. H. Smith)". 1 ♂. Unchanged (Smith, 1967: 11) (Empididae).
15. *Syneches quadrangularis*, p. 374. "Mexico, Teapa in Tabasco (H. H. Smith)". 2 ♂♂. Unchanged (Smith, 1967: 10) (Empididae).
16. *Phoneustisca simplicior*, p. 375. "Mexico, Chilpancingo in Guerrero, 4600 feet (H. H. Smith)". 1 ♀. Now in *Tachyempis* (Smith, 1967: 8) (Empididae).
17. *Drapetis femoralis*, p. 376. "Mexico, Vera Cruz and Tabasco (H. H. Smith)". ♀♀. Now in *Drapetis (Crossopalpus)* (Smith, 1967: 2) (Empididae).
18. *Sciodromia mexicana*, p. 376. "Mexico, Sierra de las Aguas Escondidas in Guerrero (H. H. Smith)". 1 ♀. Now in *Chelipoda* (Smith, 1967: 39) (Empididae).

6. THE SPECIES DESCRIBED BY FREDERIK MAURITS VAN DER WULP

Frederik Maurits van der Wulp (Fig. 4) was born in The Hague, on 13 December 1818 and died in the same city on 27 November 1899. His entire career was spent at the Dutch Audit Office, where he entered on 1 September 1843, passing successively to second clerk (1 June 1846), head clerk (1 January 1848), assistant officer (1 April 1854), officer (1 July 1869), head officer (1 January 1879), referendary (head of the special branch at the Audit Office, 1 January 1880), and retired on April 1893. He was nominated Knight of the Order of the Orange-

Nassau. On 26 May 1848 he married Jeanne Louise Cornelia Brederhuysen, by whom he had four children (3 sons and 1 daughter).

On 12 October 1845 Wulp was one of the founders of the Nederlandse Entomologische Vereniging (Dutch Entomological Society). From June 1870 to June 1894 he was secretary of the same Society and from July 1867 to June 1894 the editor of its journal, the "*Tijdschrift voor Entomologie*", founded in 1858. In 1894 he was elected Honorary Member of the Society.

Wulp's wife died on 11 August 1895. From the death of his wife to his death on 27 November 1899 he lived with his only daughter (Snellen, 1900).



Figure 4

Frederik Maurits van der Wulp. Photograph reproduction by Zoölogisch Museum Amsterdam, negative N° 2306.

From 1870 to 1892 Wulp published many papers on Neotropical Diptera, based especially on the collections found in Amsterdam and Leiden. Many of his specimens were sent from Argentina by Hendrik Weyenbergh. He cooperated in the *Biologia Centrali-Americana* with the Muscoidea and Pupipara portions (1891b, 1895-1900, 1903), as well as some families of Acalyptrates. Most of Wulp's types are in the Zoölogisch Museum, Amsterdam (including many syntypes of the Muscoidea described in the *Biologia Centrali-Americana*) and some are at the Rijksmuseum van Natuurlijke Historie, Leiden. The greatest part of the syntypes described in the *Biologia Centrali-Americana* went to the British Museum (Natural History), London.

The following are the Mexican species described by Wulp:

1881:

1. *Dilophus melanarius*, p. 146. "Mexico (Dugès)". 2 ♀♀ in Museum of Brussels. Unchanged (Hardy, 1966: 9) (Bibionidae).

1883:

2. *Mesograpta linearis*, p. 5. "Mexico (Dugès)". 1 ♂ in Museum of Brussels. Now in *Toxomerus* (Thompson *et al.*, 1976: 51) (Syrphidae).

1888:

3. *Acaulona costata*, p. 4, pl. 3, figs. 1, 1 a-b. "Mexico, Orizaba (H. H. Smith and F. D. Godman), Medellin near Vera Cruz (H. H. Smith)". A single specimen (♂?) from each locality. Unchanged (Guimarães, 1971: 6) (Tachinidae).
4. *Hystricia infuscata*, p. 12. "Mexico, Medellin near Vera Cruz (H. H. Smith)". 1 ♀ captured in January 1888. Now in *Exopalpus* (Guimarães, 1971: 55) (Tachinidae).
5. *Saundersia nigropilosa*, p. 23. "Mexico, Cordova (Höge), 1 ♂; Costa Rica, Rio Sucio (Rogers), 2 ♀♀. Now a junior synonym of *Parepalpus constans* (Walker, 1849) (Guimarães, 1971: 69) (Tachinidae).
6. *Saundersia unicolor*, p. 23. "Mexico, Orizaba (H. H. Smith and F. D. Godman)". 1 ♂. Now in *Epalpus* (Guimarães, 1971: 65) (Tachinidae).
7. *Saundersia rufitibia*, p. 24. "Mexico, Orizaba (H. H. Smith and F. D. Godman)". 1 ♀. Now in *Epalpus* (Guimarães, 1971: 65) (Tachinidae).
8. *Saundersia bipartita*, p. 25, pl. 2, figs. 3, 3 a. "Mexico, Ciudad in Durango, 8100 feet (Forrer)". 3 ♂♂, 3 ♀♀. Now *Xanthoepalpus bicolor* (Williston, 1886) (Guimarães, 1971: 73) (Tachinidae).
9. *Jurinia dichroma*, p. 27, pl. 2, figs. 5, 5 a. "Mexico, Ciudad in Durango, 8100 feet (Forrer); Costa Rica, Rio Sucio, Volcán de Irazu, 6000 to 7000 feet (Rogers)". 1 ♂, several ♀♀. Now in *Protodejeania* (Guimarães, 1971: 59) (Tachinidae).
10. *Jurinia adusta*, p. 28, pl. 2, fig. 7. "Mexico, Ventanas in Durango 2000 feet (Forrer)". 4 ♂♂, 2 ♀♀. Now in *Juriniopsis* (Guimarães, 1971: 58) (Tachinidae).

11. *Echinomyia flaviventris*, p. 32, pl. 2, figs. 11, 11 a. "Mexico, Ciudad in Durango, 8100 feet (Forrer)". 1 ♂, 4 ♀♀. Now in *Peleteria* (Guimarães, 1971: 44) (Tachinidae).
12. *Echinomyia nigrocalyptrata*, p. 33. "Mexico Medellin near Vera Cruz (H. H. Smith)". 1 ♂ captured in January 1888. Now in *Archytas* (Guimarães, 1971: 51) (Tachinidae).
13. *Echinomyia dispar*, p. 34, pl. 2, fig. 14 a.. "Mexico, northern Sonora (Morrison)". 1 ♂, 2 ♀♀. Now *Archytas lateralis* (Macquart, 1843) (Guimarães, 1971: 50) (Tachinidae).
14. *Trichophora nitidifrons*, p. 37. "Mexico, Medellin near Vera Cruz (H. H. Smith)". 2 ♂♂ captured in January 1888. Now *Copecrypta ruficauda* (Wulp, 1867) (Guimarães, 1971: 75) (Tachinidae).
15. *Gymnomma nitidiventris*, p. 38, pl. 5, figs. 17, 17 a. "Mexico, Ciudad in Durango, 8100 feet (Forrer)". 1 ♀. Unchanged (Guimarães, 1971: 67) (Tachinidae).
16. *Gonia mexicana*, p. 40, pl. 5, figs. 19, 19 a-b, 20, 20 a. "Mexico Ciudad in Durango, 8100 feet (Forrer)". 1 ♂, 1 ♀. Unchanged (Guimarães, 1971: 175) (Tachinidae).

1890:

17. *Distichona varia*, p. 44, pl. 3, figs. 2, 2 a-b. "Mexico, Chilpancingo, Xucumanatlan and Omilteme in Guerrero, 4600 to 7000 feet, Cuernavaca in Morelos (H. H. Smith)". Several specimens of both sexes. Unchanged (Guimarães, 1971: 174) (Tachinidae).
18. *Cnephala onusta*, p. 46, pl. 3, figs. 4, 4 a. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 2 ♀♀. Now in *Spallanzania* (Guimarães, 1971: 178) (Tachinidae).
19. *Cnephala obesula*, p. 46, pl. 3, figs. 3, 3 a. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Now in *Belvosia* (Guimarães, 1971: 182) (Tachinidae).
20. *Cnephala ochriventris*, p. 47. "Mexico, Tierra Colorada, 2000 feet and Amula 6000 feet, both in Guerrero (H. H. Smith)". 2 ♀♀. Not in Guimarães's 1971 catalogue (Tachinidae).
21. *Nemoraea variegata*, p. 48. "Mexico, Xucumanatlan, 7000 feet, and Omilteme, 8000 feet, both in Guerrero (H. H. Smith)". 2 ♂♂, 1 ♀. Now in *Winthemia* (Guimarães, 1971: 198) (Tachinidae).
22. *Nemoraea obscurella*, p. 48. "Mexico, Amula, 6000 feet, and Xucumanatlan, 7000 feet, both in Guerrero (H. H. Smith)". 3 ♂♂, 1 ♀. Now in *Winthemia* (Guimarães, 1971: 197) (Tachinidae).
23. *Nemoraea forreri*, p. 49, pl. 2, figs. 21, 21 a. "Mexico, Ciudad in Durango, 8100 feet (Forrer); Xucumanatlan, 7000 feet, and Omilteme, 8000 feet, both in Guerrero (H. H. Smith); Navarrete in Tepic and Atoyac in Vera Cruz (Schumann)". Several specimens of both sexes. Now in *Exopalpus* (Guimarães, 1971: 55) (Tachinidae).
24. *Nemoraea smithi*, p. 50. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♂, 4 ♀♀. Now in *Exopalpus* (Guimarães, 1971: 55) (Tachinidae).
25. *Nemoraea intermedia*, p. 50. "Mexico, Xucumanatlan, 7000 feet, and Omilteme, 8000 feet, both in Guerrero (H. H. Smith); Mexico City (Schumann)". Various specimens. Now in *Exopalpus* (Guimarães, 1971: 55) (Tachinidae).
26. *Mystacella rubriventris*, p. 52. "Mexico, Atoyac in Vera Cruz (H. H. Smith); Tuxpango (Coll. Bellardi)". 2 ♂♂. Now in *Mystacomia* (Guimarães, 1971: 201) (Tachinidae).
27. *Mystacella lugubris*, p. 53. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 1 ♀. Now in *Gaediophana* (Guimarães, 1971: 179) (Tachinidae).

28. *Mystacella violacea*, p. 53. "Mexico (Coll. Bellardi); Chilpancingo 4600 feet, Amula 6000 feet, Xucumanatlan 7000 feet, Omilteme 8000 feet, all in Guerrero, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith); Temax in North Yucatan (Gaumer); Guatemala, Zapote (Champion)". Many specimens of both sexes. Now a junior synonym of *Bolomyia rufata* (Bigot, 1889) (Guimarães, 1971: 187) (Tachinidae).
29. *Mystacella lineata*, p. 54. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂, 2 ♀♀. Now in *Chrysoexorista* (Guimarães, 1971: 207) (Tachinidae).
30. *Mystacella solita*, p. 55. "Mexico, Chilpancingo 4600 feet, and Amula 6000 feet, in Guerrero (H. H. Smith)". 1 ♂, 1 ♀. Unchanged (Guimarães, 1971: 191) (Tachinidae).
31. *Mystacella adjuncta*, p. 55. "Mexico, Chilpancingo in Guerrero, 4600 feet (H. H. Smith)". 1 ♂. Now an unplaced species of Carcellini (Guimarães, 1971: 204) (Tachinidae).
32. *Mystacella tessellata*, p. 56. "Mexico, Amula 6000 feet, Xucumanatlan 7000 feet, and Omilteme 8000 feet, all in Guerrero, Cuernavaca in Morelos (H. H. Smith)". Several ♂♂, 2 ♀♀. Now in *Winthemia* (Guimarães, 1971: 197) (Tachinidae).
33. *Mystacella postera*, p. 56. "Mexico, Xucumanatlan in Guerrero 7000 feet (H. H. Smith)". 1 ♀. Now *Gaediopsis mexicana* Brauer and Bergenstamm, 1891 (Guimarães, 1971: 179) (Tachinidae).
34. *Mystacella fuscicostalis*, p. 57, pl. 3, figs. 5, 5 a. "Mexico (Coll. Bellardi) 1 ♂; Costa Rica, Cache and Irazu (Rogers), 4 ♂♂". Now in *Paramesochaeta* (Guimarães, 1971: 159) (Tachinidae).
35. *Mystacella flavifrons*, p. 57. "Mexico, Teapa in Tabasco (H. H. Smith)". Several specimens of both sexes. Unchanged (Guimarães, 1971: 191) (Tachinidae).
36. *Mystacella subcyanea*, p. 58. "Mexico, Sierra de las Aguas Escondidas, Guerrero, 7000 feet (H. H. Smith)". 1 ♀. Now in *Chrysotachina* (Guimarães, 1971: 81) (Tachinidae).
37. *Mystacella setulosa*, p. 58. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 1 ♀. Now in *Trafoia* (Guimarães, 1971: 83) (Tachinidae).
38. *Meigenia albidula*, p. 59, pl. 3, figs. 6, 6 a. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
39. *Meigenia flaviventris*, p. 59. "Mexico, Orizaba (Coll. Bellardi)". 1 ♀. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
40. *Meigenia gratiosa*, p. 60. "Mexico, Xucumanatlan in Guerrero, 7000 feet (H. H. Smith)". 1 ♂. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
41. *Exorista obscurata*, p. 62. "Mexico, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". 5 ♂♂. Now in *Heliolydella* (Guimarães, 1971: 135) (Tachinidae).
42. *Exorista unicolor*, p. 63. "Mexico, Cuernavaca in Morelos, Venta de Zopilote 2800 feet, and Amula 6000 feet, in Guerrero (H. H. Smith); Santiago Iscuintla in Jalisco (Schumann)". Several ♀♀. Now in *Myiopharus* (Guimarães, 1971: 142) (Tachinidae).
43. *Exorista ochracea*, p. 63. "Mexico, Amula 6000 feet, Xucumanatlan 7000 feet, and Omilteme 8000 feet, in Guerrero, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith); Costa Rica, Rio Sucio (Rogers)". Several specimens of both sexes. Now in *Chrysoexorista* (Guimarães, 1971: 207) (Tachinidae).
44. *Exorista caeruleiventris*, p. 64. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Now in *Chrysoexorista* (Guimarães, 1971: 207) (Tachinidae).

45. *Exorista ordinaria*, p. 64. "Mexico, Venta de Zopilote in Guerrero 2800 feet, Medellin near Vera Cruz, Teapa in Tabasco (H. H. Smith)". 3 ♂♂, 2 ♀♀. Now in *Tinalydella* (Guimarães, 1971: 151) (Tachinidae).
46. *Exorista brevis*, p. 64. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 1 ♀. Now an unplaced species of Carceliini (Guimarães, 1971: 204) (Tachinidae).
47. *Exorista hispida*, p. 65. "Mexico, Orizaba (H. H. Smith and F. D. Godman); Omilteme in Guerrero 8000 feet (H. H. Smith)". 2 ♂♂, 1 ♀. Now *Trafoia rufipalpis* (Bigot, 1889) (Guimarães, 1971: 83) (Tachinidae).
48. *Exorista rubricornis*, p. 66. "Mexico, Atoyac in Vera Cruz (H. H. Smith); Temax in North Yucatan (Gaumer)". 2 ♀♀. Now in *Winthemia* (Guimarães, 1971: 197) (Tachinidae).
49. *Exorista latevittata*, p. 66. "Mexico, Dos Arroyos 1000 feet, Tierra Colorada 2000 feet, Xucumanatlan 7000 feet, and Omilteme 8000 feet, all in Guerrero, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith); Orizaba (Coll. Bellardi)". Several ♂♂. Now in *Winthemia* (Guimarães, 1971: 197) (Tachinidae).
50. *Exorista tricolor*, p. 67, pl. 3, fig. 9. "Mexico, Acaguizotla in Guerrero 3500 feet, Cuernavaca in Morelos, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith); Costa Rica, Cache (Rogers)". 9 ♂♂, 3 ♀♀. Now in *Winthemia* (Guimarães, 1971: 197) (Tachinidae).
51. *Exorista latimana*, p. 67, pl. 3, fig. 10. "Mexico, La Venta 300 feet, Tierra Colorada 2000 feet, Amula 6000 feet, Xucumanatlan and Sierra de las Aguas Escondidas 7000 feet, all in Guerrero, Atoyac and Medellin in Vera Cruz, Teapa in Tabasco (H. H. Smith); Orizaba (F. D. Godman and H. H. Smith)". Several specimens of both sexes. Now in *Winthemia* (Guimarães, 1971: 197) (Tachinidae).
52. *Exorista consobrina*, p. 68. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Now in *Winthemia* (Guimarães, 1971: 196) (Tachinidae).
53. *Exorista sororcula*, p. 68. "Mexico, Cuernavaca in Morelos (H. H. Smith)". 1 ♀. Now in *Winthemia* (Guimarães, 1971: 197) (Tachinidae).
54. *Exorista flavirostris*, p. 69, pl. 3, figs. 7, 7 a. "Mexico, Orizaba (Coll. Bellardi); Teapa in Tabasco (H. H. Smith)". 1 ♂, 3 ♀♀. Now in *Carcelia* (Guimarães, 1971: 202) (Tachinidae).
55. *Exorista interstincta*, p. 69. "Mexico, Venta de Zopilote in Guerrero 2800 feet (H. H. Smith)". 1 ♀. An unplaced Winthemiini (Guimarães, 1971: 198) (Tachinidae).
56. *Exorista trivittata*, p. 70. "Mexico, Orizaba (Coll. Bellardi); Atoyac in Veracruz, Teapa in Tabasco (H. H. Smith)". Several ♂♂. Now in *Nemorilla* (Guimarães, 1971: 195) (Tachinidae).
57. *Exorista nigricauda*, p. 70. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♂. Now in *Chrysoexorista* (Guimarães, 1971: 207) (Tachinidae).
58. *Exorista angustata*, p. 70. "Mexico, Chilpancingo in Guerrero, 4600 feet (H. H. Smith)". 1 ♂. Now in *Zenillia* (Guimarães, 1971: 214) (Tachinidae).
59. *Exorista exilis*, p. 71. "Mexico, Amula in Guerrero, 6000 feet (H. H. Smith)". 2 ♂♂. Now in *Thelairodoria* (Guimarães, 1971: 150) (Tachinidae).
60. *Exorista ignobilis*, p. 71. "Mexico, Amula in Guerrero, 6000 feet (H. H. Smith)". 1 ♂. Now in *Winthemia* (Guimarães, 1971: 196) (Tachinidae).
61. *Exorista humilis*, p. 72. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 1 ♂. Not in Guimarães's 1971 catalogue (Tachinidae).

62. *Exorista maura*, p. 72. "Mexico, Xucumanatlan in Guerrero, 7000 feet (H. H. Smith)". 2 ♀♀. An unplaced Sturmiini (Guimarães, 1971: 193) (Tachinidae).
63. *Exorista glabricula*, p. 73. "Mexico, Amula 6000 feet, Sierra de las Aguas Escondidas 7000 feet, Omilteme 8000 feet, all in Guerrero (H. H. Smith)". 4 ♂♂. An unplaced Winthemiini (Guimarães, 1971: 198) (Tachinidae).
64. *Exorista tenuipalpis*, p. 73. "Mexico, Venta de Zopilote 2800 feet, and Dos Arroyos 1000 feet, in Guerrero (H. H. Smith)". 4 ♂♂. An unplaced Winthemiini (Guimarães, 1971: 198) (Tachinidae).
65. *Exorista flavicans*, p. 74. "Mexico, Orizaba (F. D. Godman and H. H. Smith)". 1 ♂. Now in *Lespesia* (Guimarães, 1971: 209) (Tachinidae).
66. *Exorista griseomicans*, p. 74. "Mexico, Amula 6000 feet, and Xucumanatlan 7000 feet, in Guerrero, Teapa in Tabasco (H. H. Smith); Costa Rica, Cache (Rogers)". Several specimens of both sexes. Now in *Carcellia* (Guimarães, 1971: 202) (Tachinidae).
67. *Phorocera tenebricosa*, p. 77. "Mexico, Amula 6000 feet, Omilteme 8000 feet, and Sierra de las Aguas Escondidas 9500 feet, all in Guerrero (H. H. Smith); Tuxpango (Coll. Bellardi)". 2 ♂♂, 2 ♀♀. Now *Gaediophana lugubris* (Wulp, 1890) (Guimarães, 1971: 179) (Tachinidae).
68. *Phorocera carbonaria*, p. 78. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♀. Now *Myiopharus carbonarius* (Wulp) (Guimarães, 1971: 141) (Tachinidae).
69. *Phorocera parvula*, p. 78. "Mexico, Orizaba (H. H. Smith and F. D. Godman)". 1 ♀. Now in *Metadoria* (Guimarães, 1971: 140) (Tachinidae).
70. *Phorocera atriceps*, p. 79. "Mexico, Orizaba (H. H. Smith and F. D. Godman); Venta de Zopilote 2800 feet, and Amula 6000 feet, both in Guerrero (H. H. Smith)". 4 ♂♂ (in one the abdomen is missing). Now *Metadoria barbata* (Bigot, 1889) (Guimarães, 1971: 140) (Tachinidae).
71. *Phorocera rufilabris*, p. 79. "Mexico, Omilteme 8000 feet (1 ♀), and Sierra de las Aguas Escondidas 9500 feet (1 ♂), both in Guerrero (H. H. Smith)". Now in *Euthelaira* (Guimarães, 1971: 156) (Tachinidae).
72. *Phorocera xanthura*, p. 80. "Mexico, Venta de Zopilote in Guerrero 2800 feet (H. H. Smith)". 1 ♀. An unplaced Sturmiini (Guimarães, 1971: 194) (Tachinidae).
73. *Phorocera fulviceps*, p. 80. "Mexico (Coll. Bellardi) (1 ♀); Xucumanatlan 7000 feet, Omilteme 8000 feet, and Sierra de las Aguas Escondidas 9500 feet, all in Guerrero (H. H. Smith); Orizaba (H. H. Smith and F. D. Godman)". Several specimens of both sexes. Now in *Patelloa* (Guimarães, 1971: 211) (Tachinidae).
74. *Phorocera nigrifrons*, p. 81. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♀. An unplaced Exoristini (Guimarães, 1971: 161) (Tachinidae).
75. *Phorocera cinerea*, p. 81. "Mexico, Rincon in Guerrero 2800 feet (H. H. Smith)". 1 ♀. Now in *Euphorocera* (Guimarães, 1971: 158) (Tachinidae).
76. *Phorocera cylindrata*, p. 82. "Mexico, Chilpancingo in Guerrero 4600 feet (H. H. Smith)". 1 ♂. Now in *Eupelecothea* (Guimarães, 1971: 156) (Tachinidae).
77. *Phorocera immaculata*, p. 82. "Mexico, Amula 6000 feet, and Omilteme 8000 feet, both in Guerrero (H. H. Smith)". 3 ♂♂, 2 ♀♀. An unplaced Exoristini (Guimarães, 1971: 161) (Tachinidae).

78. *Phorocera flavicauda*, p. 83. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith); Mexico City (Schumann)". 2 ♀♀. Now in *Gaediopsis* (Guimarães, 1971: 179) (Tachinidae).
79. *Phorocera muscaria*, p. 83. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂. An unplaced Eryciini (Guimarães, 1971: 215) (Tachinidae).
80. *Phorocera sobrina*, p. 84. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. An unrecognized Exoristini (Guimarães, 1971: 161) (Tachinidae).
81. *Phorocera setigera*, p. 84. "Mexico, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". 1 ♂, 1 ♀. An unrecognized Exoristini (Guimarães, 1971: 161) (Tachinidae).
82. *Phorocera macra*, p. 84. "Mexico, Teapa in Tabasco (H. H. Smith)". 3 ♀♀. Now in *Pelecotheca* (Guimarães, 1971: 157) (Tachinidae).
83. *Phorocera appendiculata*, p. 85. "Mexico, Rincon 2800 feet, and Amula 6000 feet, both in Guerrero (H. H. Smith)". 2 ♂♂. Now in *Euphorocera* (Guimarães, 1971: 157) (Tachinidae).
84. *Phorocera scutellaris*, p. 85. "Mexico, Venta de Zopilote 2800 feet, Amula 6000 feet, both in Guerrero (H. H. Smith)". 3 ♂♂. Now in *Euphorocera* (Guimarães, 1971: 158) (Tachinidae).
85. *Phorocera linearis*, p. 86. "Mexico, Venta de Zopilote in Guerrero, 2800 feet (H. H. Smith)". 2 ♂♂. An unplaced Goniinae (Guimarães, 1971: 215) (Tachinidae).
86. *Trixa obsoleta*, p. 87. "Mexico, Omilteme 8000 feet, and Sierra de las Aguas Escondidas 9500 feet, both in Guerrero (H. H. Smith)". Several ♂♂ and a few ♀♀ specimens. Now in *Microphthalma* (Guimarães, 1971: 24) (Tachinidae).
87. *Trixa differens*, p. 88. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 2 ♂♂, 4 ♀♀. Now in *Microphthalma* (Guimarães, 1971: 24) (Tachinidae).
88. *Miltogramma trilineata*, p. 89. "Mexico, Presidio (Forrer)". 1 ♀. Now in *Senotainia* (Lopes, 1969: 4) (Sarcophagidae).
89. *Miltogramma fulvicornis*, p. 89. "Mexico, Dos Arroyos 1000 feet, and Amula 6000 feet, both in Guerrero (H. H. Smith)". 2 ♀♀. Now in *Senotainia* (Lopes, 1969: 5) (Sarcophagidae).
90. *Miltogramma erythrura*, p. 89. "Mexico, Presidio (Forrer)". 1 ♂. Now in *Amobia* (*Sarcomacronychia*) (Lopes, 1969: 2) (Sarcophagidae).
91. *Miltogramma sarcophagina*, p. 90. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♀. Now in *Amobia* (*Sarcomacronychia*) (Lopes, 1969: 2) (Sarcophagidae).
92. *Brachycoma laticeps*, p. 92. "Mexico, Rio Papagaio 1200 feet, and Rincon 2800 feet, both in Guerrero, Teapa in Tabasco (H. H. Smith)". 1 ♂ and some ♀♀ specimens. Now a synonym of *Atacta brasiliensis* Schiner, 1868 (Guimarães, 1971: 180) (Tachinidae).
93. *Brachycoma afra*, p. 92. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂. Now in *Lespesia* (Guimarães, 1971: 209) (Tachinidae).
94. *Brachycoma foveata*, p. 93, pl. 3, figs. 12, 12 a. "Mexico, Amula in Guerrero 6000 feet, Teapa in Tabasco (H. H. Smith); Costa Rica, Cache (Rogers)". 1 ♂, 3 ♀♀. An unplaced Sturmiini (Guimarães, 1971: 193) (Tachinidae).
95. *Brachycoma robusta*, p. 93. "Mexico, Xucumanatlan 7000 feet in Guerrero, Atoyac in Vera Cruz (H. H. Smith)". 1 ♂, 1 ♀. Now in *Sitophaga* (Guimarães, 1971: 148) (Tachinidae).
96. *Brachycoma ruficauda*, p. 94. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 2 ♀♀. Now in *Masiphya* (Guimarães, 1971: 199) (Tachinidae).

97. *Brachycoma trifida*, p. 94. "Mexico, Venta de Zopilote 2800 feet, Acahuizotla 3500 feet, Chilpancingo 4600 feet, all in Guerrero (H. H. Smith)". 2 ♂♂, 2 ♀♀. Now in *Drino* (Guimarães, 1971: 189) (Tachinidae).
98. *Brachycoma pygmaea*, p. 95. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 1 ♀. An unplaced Goniini (Guimarães, 1971: 180) (Tachinidae).
99. *Brachycoma biseriata*, p. 95. "Mexico, Chilpancingo in Guerrero 4600 feet, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". 2 ♂♂, 3 ♀♀. Now in *Masiphya* (Guimarães, 1971: 198) (Tachinidae).
100. *Brachycoma pallidula*, p. 95. "Mexico, Temax in North Yucatan (Gaumer)". 1 ♀. A junior synonym of *Comatacta variegata* (Fabricius, 1805) (Guimarães, 1971: 120) (Tachinidae).
101. *Brachycoma sublucens*, p. 96. "Mexico, near the city (H. H. Smith)". 1 ♂. Now in *Sitophaga* (Guimarães, 1971: 148) (Tachinidae).
102. *Brachycoma subtilipalpis*, p. 96. "Mexico, Rincon, Venta de Zopilote 2800 feet, Acaguizotla 3500 feet, all in Guerrero; Atoyac in Vera Cruz (H. H. Smith)". 1 ♀, and several ♂♂. Now in *Promasiphya* (Guimarães, 1971: 200) (Tachinidae).
103. *Brachycoma fimbriata*, p. 97. "Mexico, Amula 6000 feet in Guerrero (H. H. Smith); Atoyac in Vera Cruz (Schumann)". 2 ♂♂, 5 ♀♀. Now in *Thysanomyia* (Guimarães, 1971: 192) (Tachinidae).
104. *Brachycoma irregularis*, p. 97. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂. Now in *Drino* (Guimarães, 1971: 189) (Tachinidae).
105. *Brachycoma nigripalpis*, p. 98. "Mexico, Dos Arroyos 1000 feet, Venta de Zopilote 2800 feet, both in Guerrero, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". Several specimens of both sexes. An unplaced Sturmiini (Guimarães, 1971: 194) (Tachinidae).
106. *Brachycoma barbatula*, p. 98. "Mexico, Venta de Zopilote 2800 feet, and Amula 6000 feet, in Guerrero (H. H. Smith)". Several specimens of both sexes. Now in *Lespesia* (Guimarães, 1971: 209) (Tachinidae).
107. *Brachycoma incompta*, p. 99. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 1 ♀. Now in *Drino* (Guimarães, 1971: 189) (Tachinidae).
108. *Brachycoma longicornis*, p. 99. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♂. An unplaced Carceliini (Guimarães, 1971: 204) (Tachinidae).
109. *Brachycoma striatella*, p. 100. "Mexico, Venta de Zopilote in Guerrero 2800 feet, Teapa in Tabasco (H. H. Smith)". 1 ♂, 3 ♀♀. An unplaced Sturmiini (Guimarães, 1971: 194) (Tachinidae).
110. *Brachycoma cineracea*, p. 100. "Mexico, Atoyac in Vera Cruz (Schumann)". 1 ♀. Now in *Drino* (Guimarães, 1971: 188) (Tachinidae).
111. *Brachycoma spuria*, p. 101. "Mexico, Venta de Zopilote 2800 feet in Guerrero (H. H. Smith)". 2 ♀♀. An unplaced Sturmiini (Guimarães, 1971: 194) (Tachinidae).
112. *Plagia setifrons*, p. 101. "Mexico, Chilpancingo 4600 feet, Amula 6000 feet, both in Guerrero (H. H. Smith)". 3 ♀♀. Now in *Minthoplagia* (Guimarães, 1971: 91) (Tachinidae).
113. *Plagia americana*, p. 102. "Mexico, Orizaba (H. H. Smith and F. D. Godman); Venta de Zopilote 2800 feet, Xucumanatlan 7000 feet, and Omilteme, 8000 feet, all in Guerrero, Teapa in Tabasco (H. H. Smith)". Several specimens. A junior synonym of *Voria ruralis* (Fallén, 1810) (Guimarães, 1971: 93) (Tachinidae).

114. *Plagia rigidirostris*, p. 102. "Mexico, Tierra Colorada 2000 feet, and Amula 6000 feet, both in Guerrero (H. H. Smith)". 3 ♀♀. Now in *Plagiomima* (Guimarães, 1971: 92) (Tachinidae).
115. *Plagia incognita*, p. 103. "Mexico, Chilpancingo 4600 feet in Guerrero (H. H. Smith)". 1 ♀. Now in *Plagiomima* (Guimarães, 1971: 92) (Tachinidae).
116. *Masicera luctuosa*, p. 105. "Mexico, Xucumanatlan in Guerrero 7000 feet, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". Several specimens. Now in *Xiphomyia* (Guimarães, 1971: 151) (Tachinidae).
117. *Masicera strigata*, p. 105. "Mexico, Venta de Zopilote in Guerrero 2800 feet, Cuernavaca in Morelos, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". 2 ♂♂, 3 ♀♀. An unplaced Blondeliini (Guimarães, 1971: 153) (Tachinidae).
118. *Masicera sodalis*, p. 106. "Mexico, Venta de Zopilote 2800 feet, and Amula 6000 feet, both in Guerrero, Teapa in Tabasco (H. H. Smith)". 2 ♂♂, 4 ♀♀. Now in *Blondelia* (Guimarães, 1971: 127) (Tachinidae).
119. *Masicera abdominalis*, p. 106. "Mexico, Temax in North Yucatan (Gaumer)". 1 ♀. Now in *Myiosturmiopsis* (Guimarães, 1971: 190) (Tachinidae).
120. *Masicera tantilla*, p. 106. "Mexico, Teapa in Tabasco (H. H. Smith)". 2 ♀♀. Now in *Blondelia* (Guimarães, 1971: 127) (Tachinidae).
121. *Masicera inquinata*, p. 107. "Mexico, Cuernavaca in Morelos (H. H. Smith)". 1 ♀. Now in *Drino* (Guimarães, 1971: 189) (Tachinidae).
122. *Masicera impedita*, p. 107. "Mexico, Cuernavaca in Morelos (H. H. Smith)". 2 ♀♀. Now in *Eumasicera* (Guimarães, 1971: 162) (Tachinidae).
123. *Masicera pumila*, p. 108. "Mexico, Amula 6000 feet in Guerrero (H. H. Smith)". 1 ♀. Now in *Lespesia* (Guimarães, 1971: 209) (Tachinidae).
124. *Masicera picta*, p. 108, pl. 3, figs. 13, 13 a. "Mexico, Santiago Iscuintla in Jalisco (Schumann), Xucumanatlan 7000 feet, and Omilteme in Guerrero, Vera Cruz, Teapa in Tabasco (H. H. Smith)". 2 ♂♂, 4 ♀♀. Now in *Myiothyriopsis* (Guimarães, 1971: 190) (Tachinidae).
125. *Masicera bistrigata*, p. 109. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Now in *Eumasicera* (Guimarães, 1971: 162) (Tachinidae).
126. *Masicera normula*, p. 109. "Mexico Chilpancingo 4600 feet, and Amula 6000 feet, both in Guerrero, Atoyac in Vera Cruz (H. H. Smith), Orizaba (Coll. Bellardi)". Several ♂♂, and 3 ♀♀, plus 1 ♀ in Coll. Bellardi. An unplaced Carceliini (Guimarães, 1971: 204) (Tachinidae).
127. *Masicera fraudulenta*, p. 110. "Mexico, Xucumanatlan in Guerrero 7000 feet (1 ♀), Atoyac in Vera Cruz (1 ♂) (H. H. Smith)". Now in *Drino* (Guimarães, 1971: 188) (Tachinidae).
128. *Masicera piliseta*, p. 110. "Mexico, Temax in North Yucatan (Gaumer)". 1 ♀. Now in *Chaetona* (Guimarães, 1971: 105) (Tachinidae).
129. *Masicera subpilosa*, p. 110. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♀. An unplaced Eryciini (Guimarães, 1971: 215) (Tachinidae).
130. *Masicera trichoneura*, p. 111. "Mexico, Xucumanatlan 7000 feet in Guerrero (H. H. Smith)". 1 ♀. An unrecognized Tachinidae (Guimarães, 1971: 216) (Tachinidae).
131. *Masicera flavescens*, p. 112. "Mexico, Cuernavaca in Morelos (H. H. Smith)". 1 ♀. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).

132. *Masicera bilineata*, p. 112. "Mexico, Temax in North Yucatan (Gaumer)". 1 ♀. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
133. *Masicera curta*, p. 112. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂, 1 ♀. Now in *Drino* (Guimarães, 1971: 188) (Tachinidae).
134. *Masicera dejecta*, p. 113. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 1 ♀. Now in *Doryphorophaga* (Guimarães, 1971: 132) (Tachinidae).
135. *Masicera sordida*, p. 113. "Mexico, Venta de Zopilote in Guerrero 2800 feet, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". Several ♀♀. Not in Guimarães, 1971's catalogue (Tachinidae).
136. *Masicera calcarata*, p. 114. "Mexico, Cuernavaca in Morelos (H. H. Smith)". 1 ♀. Now in *Eumasicera* (Guimarães, 1971: 162) (Tachinidae).
137. *Metopia perpendicularis*, p. 115, pl. 3, figs. 18, 18 a. "Mexico, Amula in Guerrero 6000 feet, Cuernavaca in Morelos (H. H. Smith)". 2 ♀♀. Unchanged (Lopes, 1969: 3) (Sarcophagidae).
138. *Baumhaueria discrepans*, p. 115, pl. 3, fig. 17. "Mexico, Cuernavaca in Morelos (H. H. Smith)". 1 ♀. Now in *Distichona* (Guimarães, 1971: 174) (Tachinidae).
139. *Prospheysa aemulans*, p. 117, pl. 3, figs. 14, 14 a. "Mexico, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". 2 ♂♂, 2 ♀♀. Unchanged (Guimarães, 1971: 213) (Tachinidae).
140. *Prospheysa ochricauda*, p. 118. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 1 ♀. Now in *Chaetogaedia* (Guimarães, 1971: 178) (Tachinidae).
141. *Prospheysa trifasciata*, p. 118. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 1 ♀. Now in *Paralipse* (Guimarães, 1971: 145) (Tachinidae).
142. *Prospheysa ingloria*, p. 119. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 1 ♀. An unplaced Eryciini (Guimarães, 1971: 215) (Tachinidae).
143. *Prospheysa comosa*, p. 119. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂. Now in *Eucelatoria* (Guimarães, 1971: 133) (Tachinidae).
144. *Prospheysa contigua*, p. 120. "Mexico, Cuernavaca in Morelos (H. H. Smith)". 1 ♀. Now in *Paralipse* (Guimarães, 1971: 145) (Tachinidae).
145. *Prospheysa creba*, p. 120. "Mexico, Amula 6000 feet, Xucumanatlan 7000 feet, Omilteme 8000 feet, all in Guerrero (H. H. Smith)". Many specimens. Now in *Chaetogaedia* (Guimarães, 1971: 178) (Tachinidae).
146. *Prospheysa rufifrons*, p. 121. "Mexico, Chilpancingo in Guerrero, 4600 feet (H. H. Smith)". 1 ♀. Now in *Chaetogaedia* (Guimarães, 1971: 178) (Tachinidae).
147. *Prospheysa vilis*, p. 121. "Mexico, Chilpancingo 4600 feet, Amula 6000 feet, Xucumanatlan 7000 feet, Omilteme, 8000 feet, all in Guerrero (H. H. Smith)". A large series of specimens. Now in *Chaetogaedia* (Guimarães, 1971: 178) (Tachinidae).
148. *Prospheysa albifacies*, p. 121. "Mexico, Santiago Ixcuintla in Jalisco (Schumann)". 1 ♀. An unplaced Goniini (Guimarães, 1971: 180) (Tachinidae).
149. *Prospheysa macilentata*, p. 122. "Mexico, Orizaba in Veracruz (H. H. Smith and F. D. Godman)". 1 ♂. Now in *Pelecotheca* (Guimarães, 1971: 157) (Tachinidae).
150. *Prospheysa apicalis*, p. 122. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♂, 3 ♀♀. Now in *Lespesia* (Guimarães, 1971: 209) (Tachinidae).
151. *Prospheysa rectinervis*, p. 123. "Mexico, Chilpancingo in Guerrero, 4600 feet (H. H. Smith)". 1 ♀. Now in *Lespesia* (Guimarães, 1971: 209) (Tachinidae).

152. *Prospheysa minuta*, p. 123, pl. 3, fig. 16. "Mexico, Cuernavaca in Morelos (H. H. Smith)". 4 ♀♀. An unplaced Eumasicerini (Guimarães, 1971: 164) (Tachinidae).
153. *Prospheysa serotina*, p. 124. "Mexico, near the city (H. H. Smith)". 1 ♀. Now in *Doryphorophaga* (Guimarães, 1971: 132) (Tachinidae).
154. *Prospheysa parvipalpis*, p. 124, pl. 3, figs. 15, 15 a. "Mexico, Northern Sonora (Morrison), Presidio (Forrer), Tepetlapa 3000 feet, and Omilteme 8000 feet, both in Guerrero (H. H. Smith)". 3 ♂♂, 1 ♀. Now in *Stomatomyia* (Guimarães, 1971: 160) (Tachinidae).
155. *Prospheysa balteata*, p. 124. "Mexico, Dos Arroyos 1000 feet, and Tierra Colorada 2000 feet, both in Guerrero (H. H. Smith)". 2 ♀♀. Now in *Euphorocera* (Guimarães, 1971: 158) (Tachinidae).
156. *Prospheysa plagioides*, p. 125. "Mexico, Amula in Guerrero 6000 feet, Cuernavaca in Morelos (H. H. Smith)". Several female specimens. An unplaced Eryciini (Guimarães, 1971: 215) (Tachinidae).
157. *Siphona futilis*, p. 125. "Mexico, Orizaba in Veracruz (F. D. Godman and H. H. Smith), Xucumanatlan 7000 feet, and Omilteme 8000 feet, both in Guerrero, Cuernavaca in Morelos, Mexico City (H. H. Smith)". Several specimens of both sexes. Unchanged (Guimarães, 1971: 170) (Tachinidae).
158. *Siphona diluta*, p. 126. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 4 ♂♂, 5 ♀♀. Unchanged (Guimarães, 1971: 170) (Tachinidae).
159. *Macquartia setiventris*, p. 129, pl. 3, figs. 21, 21 a. "Mexico, Orizaba n Veracruz (Coll. Bellardi), Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♂ from each locality. Now in *Uramyia* (Guimarães, 1971: 104) (Tachinidae).
160. *Macquartia acuminata*, p. 130. "Mexico, Amula 7000 feet, and Omilteme 8000 feet, both in Guerrero (H. H. Smith)". 3 ♂♂. Now in *Paraporía* (Guimarães, 1971: 104) (Tachinidae).
161. *Macquartia venusta*, p. 130. "Mexico, Amula 6000 feet, and Xucumanatlan 7000 feet, both in Guerrero (H. H. Smith)". Several ♂♂ specimens. Now in *Pseudeuantha* (Guimarães, 1971: 104) (Tachinidae).
162. *Macquartia versicolor*, p. 130. "Mexico, Xucumanatlan 7000 feet, Omilteme 8000 feet, Sierra de las Aguas Escondidas 9500 feet, all in Guerrero (H. H. Smith)". Several ♂♂ specimens. Now in *Xanthophyto* (Guimarães, 1971: 84) (Tachinidae).
163. *Labidigaster furcata*, p. 131, pl. 3, figs. 22, 22 a. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ?♀. Now in *Clairvillia* (Guimarães, 1971: 17) (Tachinidae).
164. *Myobia flavicornis*, p. 133, pl. 4, figs. 1, 1 a. "Mexico, Teapa in Tabasco (H. H. Smith)". Several specimens of both sexes. Now in *Calothelaira* (Guimarães, 1971: 105) (Tachinidae).
165. *Myobia succinta*, p. 133. "Mexico, Sierra de las Aguas Escondidas 9500 feet in Guerrero (H. H. Smith)". 1 ♂, 1 ♀. Now in *Pseudoredtenbacheria* (Guimarães, 1971: 147) (Tachinidae).
166. *Myobia grata*, p. 134. "Mexico, Amula 6000 feet, and Sierra de las Aguas Escondidas 9500 feet, both in Guerrero (H. H. Smith)". 1 ♂ from each locality. Now in *Calodexia* (Guimarães, 1971: 154) (Tachinidae).
167. *Myobia scurra*, p. 134. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 2 ♀♀. Now in *Calodexia* (Guimarães, 1971: 154) (Tachinidae).

168. *Myobia lepida*, p. 135. "Mexico, Amula 6000 feet, Xucumanatlan 7000 feet, Omilteme 8000 feet, and Sierra de las Aguas Escondidas 9500 feet, all in Guerrero (H. H. Smith)". Several specimens of both sexes. An unplaced Leskiini (Guimarães, 1971: 120) (Tachinidae).
169. *Myobia argenteiceps*, p. 135. "Mexico, Dos Arroyos in Guerrero 1000 feet (H. H. Smith)". 1 ♀. An unplaced Eumasicerini (Guimarães, 1971: 164) (Tachinidae).
170. *Myobia opima*, p. 136. "Mexico, Hacienda de la Imagen 4000 feet, Amula 6000 feet, both in Guerrero, Cuernavaca in Morelos (H. H. Smith)". Several ♂♂, and 2 ♀♀. An unplaced Leskiini (Guimarães, 1971: 120) (Tachinidae).
171. *Myobia angulata*, p. 136. "Mexico, Chilpancingo in Guerrero 4600 feet (H. H. Smith)". 1 ♀. An unrecognized Leskiini (Guimarães, 1971: 120) (Tachinidae).
172. *Myobia longipalpis*, p. 138. "Mexico, Chilpancingo in Guerrero 4600 feet (H. H. Smith)". 2 ♀♀. Now in *Dejeaniopalpus* (Guimarães, 1971: 116) (Tachinidae).
173. *Polygaster egregia*, p. 139, pl. 4, figs. 3, 3 a. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 94) (Tachinidae).
174. *Hypostena leucophaea*, p. 141. "Mexico, Omilteme 8000 feet, and Sierra de las Aguas Escondidas 9500 feet, both in Guerrero (H. H. Smith)". 5 ♂♂, 2 ♀♀. Now in *Ptilodegeeria* (Guimarães, 1971: 147) (Tachinidae).
175. *Hypostena blandita*, p. 142, pl. 4, figs. 4, 4 a. "Mexico, Xucumanatlan 7000 feet, Omilteme 8000 feet, Sierra de las Aguas Escondidas 9500 feet, all in Guerrero (H. H. Smith); Orizaba in Veracruz (H. H. Smith and F. D. Godman); Costa Rica, Rio Sucio (Rogers)". Undetermined number of specimens. Now in *Calolydella* (Guimarães, 1971: 127) (Tachinidae).
176. *Hypostena concinna*, p. 142. "Mexico, Amula 6000 feet, and Xucumanatlan 7000 feet, both in Guerrero (H. H. Smith)". 2 ♂♂. Now in *Calolydella* (Guimarães, 1971: 127) (Tachinidae).
177. *Hypostena elegans*, p. 143. "Mexico, Xucumanatlan in Guerrero 7000 feet (H. H. Smith)". 3 ♂♂. Now in *Cryptomeigenia* (Guimarães, 1971: 130) (Tachinidae).
178. *Hypostena obumbrata*, p. 143. "Mexico, Amula 6000 feet, and Omilteme 8000 feet, both in Guerrero, Atoyac in Vera Cruz (H. H. Smith)". Several ♂♂, 2 ♀♀. Now in *Euptilodegeeria* (Guimarães, 1971: 134) (Tachinidae).
179. *Hypostena pilosa*, p. 144, pl. 4, fig. 7. "Mexico, Amula 6000 feet, and Xucumanatlan 7000 feet, both in Guerrero, Cuernavaca in Morelos (H. H. Smith)". 4 ♂♂. An unplaced Blondeliini (Guimarães, 1971: 153) (Tachinidae).
180. *Hypostena umbripennis*, p. 144. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂. Now in *Ptilodegeeria* (Guimarães, 1971: 147) (Tachinidae).
181. *Hypostena melaleuca*, p. 145, pl. 4, fig. 6. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
182. *Hypostena cylindriventris*, p. 145. "Mexico, Sierra de las Aguas Escondidas 7000 feet, Omilteme 8000 feet, both in Guerrero (H. H. Smith)". 3 ♂♂, 2 ♀♀. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
183. *Hypostena turbinata*, p. 146. "Mexico, Medellin near Vera Cruz (H. H. Smith)". 1 ♂. An unplaced Blondeliini (Guimarães, 1971: 153) (Tachinidae).
184. *Hypostena strigosa*, p. 146. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂, 1 ♀. Now in *Calothelaira* (Guimarães, 1971: 105) (Tachinidae).

185. *Hypostena immunda*, p. 148. "Mexico, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". 2 ♂♂. Now in *Ptilodegeeria* (Guimarães, 1971: 147) (Tachinidae).
186. *Hypostena minima*, p. 148. "Mexico, Teapa in Tabasco (H. H. Smith)". 3 ♂♂. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
187. *Hypostena subtilis*, p. 149. "Mexico, Xucumanatlan 7000 feet, Omilteme 8000 feet, both in Guerrero (H. H. Smith)". Several ♂♂, and some ♀♀ specimens. An unplaced Blondeliini (Guimarães, 1971: 153) (Tachinidae).
188. *Hypostena nubilosa*, p. 149. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 1 ♂. An unplaced Blondeliini (Guimarães, 1971: 153) (Tachinidae).
189. *Degeeria nigrocostalis*, p. 151, pl. 4, fig. 10. "Mexico, Xucumanatlan 7000 feet, Omilteme 8000 feet, both in Guerrero (H. H. Smith), Orizaba (H. H. Smith and F. D. Godman)". 4 ?♂♂. An unplaced Blondeliini (Guimarães, 1971: 153) (Tachinidae).
190. *Degeeria nitidiuscula*, p. 151. "Mexico, Chilpancingo in Guerrero 4600 feet (H. H. Smith)". 1 ♀. Now in *Doryphorophaga* (Guimarães, 1971: 132) (Tachinidae).
191. *Degeeria basalis*, p. 152. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♀. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
192. *Degeeria hyalinipennis*, p. 152. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 4 ♀♀. Now in *Doryphorophaga* (Guimarães, 1971: 132) (Tachinidae).
193. *Degeeria nigricans*, p. 153. "Mexico, Chilpancingo in Guerrero 4600 feet (H. H. Smith)". 1 ♂. Now in *Celatoria* (Guimarães, 1971: 128) (Tachinidae).
194. *Degeeria magnicornis*, p. 153. "Mexico, Amula in Guerrero 6000 feet, Atoyac in Vera Cruz (H. H. Smith)". 3 ♂♂ (one of which has lost the abdomen), 1 ♀. Now a junior synonym of *Doryphorophaga hyalinipennis* (Wulp, 1890) (Guimarães, 1971: 132) (Tachinidae).
195. *Degeeria compressa*, p. 153, pl. 4, figs. 9, 9 a. "Mexico, Amula 6000 feet, Omilteme 8000 feet, both in Guerrero, Atoyac in Vera Cruz (H. H. Smith)". 1 ♂, 2 ♀♀. Now in *Celatoria* (Guimarães, 1971: 128) (Tachinidae).
196. *Degeeria monochroma*, p. 154. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♀. Now in *Oxynops* (Guimarães, 1971: 143) (Tachinidae).
197. *Degeeria leucocycla*, p. 154. "Mexico, Dos Arroyos 1000 feet, Chilpancingo 4600 feet, Amula 6000 feet, and Omilteme 8000 feet, all in Guerrero, Atoyac in Vera Cruz (H. H. Smith)". Several ♂♂, and 1 ♀. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
198. *Degeeria nervosa*, p. 155. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♀. An unplaced Blondeliini (Guimarães, 1971: 153) (Tachinidae).
199. *Degeeria albomarginata*, p. 155. "Mexico, Cuernavaca in Morelos (H. H. Smith), Orizaba (H. H. Smith and F. D. Godman)". 2 ♀♀. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
200. *Degeeria longipes*, p. 155. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♂, 1 ♀. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
201. *Didyma moesta*, p. 158. "Mexico, Chilpancingo 4600 feet, Amula 6000 feet, Xucumanatlan 7000 feet, and Omilteme 8000 feet, all in Guerrero (H. H. Smith)". Several ♂♂ and 1 ♀. Now *Myiopharus moestus* (Wulp) (Guimarães, 1971: 142) (Tachinidae).

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202. *Didyma nigricolor*, p. 158. "Mexico, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith); Costa Rica, Volcan de Irazu 6000 to 7000 feet (Rogers)". 2 ♂♂, 3 ♀♀. Unchanged (Guimarães, 1971: 131) (Tachinidae).
203. *Didyma ambulatrix*, p. 158. "Mexico, Sierra de las Aguas Escondidas in Guerrero, 9500 feet (H. H. Smith)". 1 ♂. Unchanged (Guimarães, 1971: 131) (Tachinidae).
204. *Didyma otiosa*, p. 159. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 131) (Tachinidae).
205. *Didyma basilaris*, p. 159. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♂. Now in *Metadoria* (Guimarães, 1971: 140) (Tachinidae).
206. *Didyma modesta*, p. 160. "Mexico, Sierra de las Aguas Escondidas in Guerrero 9500 feet (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 131) (Tachinidae).
207. *Didyma exigua*, p. 160. "Mexico, La Venta in Guerrero 300 feet (H. H. Smith)". 1 ?♂. Unchanged (Guimarães, 1971: 131) (Tachinidae).
208. *Didyma timida*, p. 161. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 2 ♂♂, 1 ♀. Unchanged (Guimarães, 1971: 131) (Tachinidae).
209. *Didyma vagabunda*, p. 161. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♀. An unplaced Goniinae (Guimarães, 1971: 215) (Tachinidae).
210. *Didyma prompta*, p. 161. "Mexico, Venta de Zopilote 2800 feet, Amula 6000 feet, both in Guerrero (H. H. Smith)". 1 ♂, 2 ♀♀. Unchanged (Guimarães, 1971: 131) (Tachinidae).
211. *Didyma pullula*, p. 162. "Mexico, Sierra de las Aguas Escondidas 9500 feet (H. H. Smith)". 1 ♀. An unplaced Eryciini (Guimarães, 1971: 215) (Tachinidae).
212. *Didyma albomicans*, p. 162. "Mexico, Xucumanatlan 7000 feet, Omilteme 8000 feet, Sierra de las Aguas Escondidas 9500 feet, all in Guerrero (H. H. Smith), Orizaba (F. D. Godman and H. H. Smith)". 1 ♂, and several ♀♀. Unchanged (Guimarães, 1971: 131) (Tachinidae).
213. *Didyma inconspicua*, p. 163. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 1 ♀, Unchanged (Guimarães, 1971: 131) (Tachinidae).
214. *Didyma commixta*, p. 163. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ?♀. Now in *Mesochaeta* (Guimarães, 1971: 140) (Tachinidae).
215. *Didyma fuliginipennis*, p. 164. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♂. An unplaced Eryciini (Guimarães, 1971: 214) (Tachinidae).
216. *Didyma validinervis*, p. 164. "Mexico, Xucumanatlan, Omilteme, and Sierra de las Aguas Escondidas, all in Guerrero 7000 to 9500 feet (H. H. Smith)". Several specimens of each sex. Now in *Paradidyma* (Guimarães, 1971: 115) (Tachinidae).
217. *Didyma pavidata*, p. 165. "Mexico, Venta de Zopilote 2800 feet, and Amula 6000 feet, both in Guerrero (H. H. Smith)". 1 ♂, 1 ♀. Unchanged (Guimarães, 1971: 131) (Tachinidae).
218. *Didyma volucris*, p. 165. "Mexico, Venta de Zopilote 2800 feet, and Omilteme 8000 feet, both in Guerrero (H. H. Smith)". 1 ♂, 1 ♀. An unplaced Goniinae (Guimarães, 1971: 215) (Tachinidae).
219. *Neoptera rufa*, p. 166, pl. 4, figs. 11, 11 a, 11 b, 11 c, 12, 12 a. "Mexico, Vera Cruz, 1 ♂, and Teapa in Tabasco, 1 ♀ (H. H. Smith)". Now in *Ormia* (Guimarães, 1971: 21) (Tachinidae).

220. *Cenosoma signifera*, p. 167, pl. 4, figs. 13, 13 a. "Mexico, Chilpancingo in Guerrero 4600 feet, Atoyac in Vera Cruz (H. H. Smith)". 1 ♂ from the latter locality, 1 ♀ from the former. Unchanged, but *Cenosoma signiferum* Wulp (Guimarães, 1971: 20) (Tachinidae).
221. *Telothyria nubecula*, p. 170. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Now in *Sitophaga* (Guimarães, 1971: 148) (Tachinidae).
222. *Telothyria adscripta*, p. 170. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♀. Now in *Sitophaga* (Guimarães, 1971: 148) (Tachinidae).
223. *Telothyria disgrega*, p. 171. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 1 ♀. An unplaced Eryciini (Guimarães, 1971: 214) (Tachinidae).
224. *Telothyria relicta*, p. 171. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 121) (Tachinidae).
225. *Telothyria rufostriata*, p. 172. "Mexico, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". 1 ♂ from the latter, 1 ♀ from the former locality. Unchanged (Guimarães, 1971: 121) (Tachinidae).
226. *Telothyria fimbriatura*, p. 172. "Mexico, Venta de Zopilote 2800 feet, and Amula 6000 feet, both in Guerrero (H. H. Smith)". 3 ?♂♂. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
227. *Telothyria connexa*, p. 173. "Mexico, Venta de Zopilote 2800 feet, and Amula 6000 feet, both in Guerrero (H. H. Smith)". 3 ♂♂. Now *Myiopharus connexus* (Wulp) (Guimarães, 1971: 141) (Tachinidae).
228. *Telothyria humeralis*, p. 173. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂. Now in *Lydinolydella* (Guimarães, 1971: 138) (Tachinidae).
229. *Telothyria hamata*, p. 173. "Mexico, Xucumanatlan in Guerrero 7000 feet (H. H. Smith)". 1 ♂. Now in *Velocia* (Guimarães, 1971: 151) (Tachinidae).
230. *Telothyria pollens*, p. 174. "Mexico, Chilpancingo in Guerrero 4600 feet (H. H. Smith)". 1 ♂. Now in *Eucelatoria* (Guimarães, 1971: 133) (Tachinidae).
231. *Telothyria forticula*, p. 174. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 2 ♀♀. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
232. *Telothyria trifurca*, p. 175. "Mexico, Omilteme in Guerrero, 8000 feet (H. H. Smith)". 2 ♀♀. An unplaced Blondeliini (Guimarães, 1971: 153) (Tachinidae).
233. *Telothyria rasilis*, p. 175. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♂. Now in *Lydinolydella* (Guimarães, 1971: 139) (Tachinidae).
234. *Telothyria vaciva*, p. 176. "Mexico, Chilpancingo in Guerrero 4600 feet (H. H. Smith)". 1 ♂. Now in *Spathimeigenia* (Guimarães, 1971: 149) (Tachinidae).
235. *Telothyria dissepta*, p. 176. "Mexico, Venta de Zopilote in Guerrero 2800 feet (H. H. Smith)". 1 ♂. Now in *Eucelatoriopsis* (Guimarães, 1971: 134) (Tachinidae).
236. *Telothyria recondita*, p. 176. "Mexico, Acapulco in Guerrero (H. H. Smith)". 1 ♂. An unplaced Blondeliini (Guimarães, 1971: 153) (Tachinidae).
237. *Telothyria comata*, p. 177. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♂. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
238. *Telothyria curva*, p. 177. "Mexico, Savana Grande in Guerrero 3000 feet (H. H. Smith)". 1 ♂. Now in *Spathimeigenia* (Guimarães, 1971: 148) (Tachinidae).
239. *Telothyria lugens*, p. 177. "Mexico, Cuernavaca in Morelos, Medellin in Vera Cruz (H. H. Smith)". 1 ♂, 2 ♀♀. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).

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240. *Telothyria costalis*, p. 178. "Mexico, Omilteme in Guerrero 8000 feet, Atoyac in Vera Cruz (H. H. Smith)". 2 ♀♀. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
241. *Telothyria rava*, p. 178. "Mexico, Venta de Zopilote 2800 feet, Amula 6000 feet, Xucumanatlan 7000 feet, all in Guerrero (H. H. Smith)". 4 ?♀♀. An unplaced Blondeliini (Guimarães, 1971: 153) (Tachinidae).
242. *Telothyria striolata*, p. 179. "Mexico, Amula 6000 feet, Xucumanatlan 7000 feet, both in Guerrero, Teapa in Tabasco (H. H. Smith)". 2 ♂♂, 1 ♀. Now in *Eucelatoriopsis* (Guimarães, 1971: 134) (Tachinidae).
243. *Telothyria fasciata*, p. 179. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂, 1 ♀. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
244. *Telothyria ochrifrons*, p. 180. "Mexico, Venta de Zopilote 2800 feet, Amula 6000 feet, both in Guerrero (H. H. Smith)". 3 ♀♀. Now in *Adoryphorophaga* (Guimarães, 1971: 124) (Tachinidae).
245. *Telothyria murina*, p. 180. "Mexico, Venta de Zopilote in Guerrero 2800 feet (H. H. Smith)". 1 ♀. Now *Myiopharus murinus* (Wulp) (Guimarães, 1971: 142) (Tachinidae).
246. *Telothyria assimulata*, p. 180. "Mexico, Chilpancingo 4600 feet, Amula 6000 feet, Omilteme 8000 feet, and Sierra de las Aguas Escondidas 9500 feet, all in Guerrero (H. H. Smith)". 3 ♂♂ and several ♀♀. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
247. *Telothyria remota*, p. 181. "Mexico, Xucumanatlan in Guerrero 7000 feet (H. H. Smith)". 2 ♀♀. Now in *Spathimeigenia* (Guimarães, 1971: 149) (Tachinidae).
248. *Telothyria sublineata*, p. 181. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 1 ♀. Now in *Spathimeigenia* (Guimarães, 1971: 149) (Tachinidae).
249. *Telothyria ovata*, p. 182. "Mexico, Tierra Colorada in Guerrero 2000 feet (H. H. Smith)". 1 ♀. Now in *Adoryphorophaga* (Guimarães, 1971: 124) (Tachinidae).
250. *Telothyria cupreiventris*, p. 182, pl. 4, figs. 14, 14 a. "Mexico, Fortin in Vera Cruz, Teapa in Tabasco (H. H. Smith)". 5 ♀♀. Unchanged (Guimarães, 1971: 121) (Tachinidae).
251. *Telothyria placida*, p. 182. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 121) (Tachinidae).
252. *Telothyria illucens*, p. 183. "Mexico, Teapa in Tabasco (H. H. Smith)". 3 ♂♂, 2 ♀♀. Unchanged (Guimarães, 1971: 121) (Tachinidae).
253. *Telothyria argentifrons*, p. 183. "Mexico, Amula 6000 feet, Omilteme 8000 feet, both in Guerrero (H. H. Smith)". 3 ♀♀. Now in *Actinodorina* (Guimarães, 1971: 124) (Tachinidae).
254. *Telothyria occulta*, p. 184. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 1 ♀. Now in *Eucelatoriopsis* (Guimarães, 1971: 134) (Tachinidae).
255. *Telothyria carinata*, p. 184. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 2 ♀♀. Now in *Schizocerophaga* (Guimarães, 1971: 148) (Tachinidae).
256. *Telothyria vicina*, p. 184. "Mexico, Venta de Zopilote 2000 feet, Xucumanatlan 7000 feet, both in Guerrero, Teapa in Tabasco (H. H. Smith)". 3 ♀♀. An unplaced Blondeliini (Guimarães, 1971: 153) (Tachinidae).
257. *Telothyria refuga*, p. 185. "Mexico, Acaguizotla in Guerrero 3500 feet (H. H. Smith)". 2 ♀♀. Now in *Argyrodoria* (Guimarães, 1971: 126) (Tachinidae).

258. *Telothyria pacata*, p. 185. "Mexico, Xucumanatlan 7000 feet, Omilteme 8000 feet, both in Guerrero (H. H. Smith)". 2 ♀♀. An unplaced Blondelliini (Guimarães, 1971: 153) (Tachinidae).
259. *Anisia inflexa*, p. 188. "Mexico, Xucumanatlan in Guerrero 7000 feet (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
260. *Anisia rubripes*, p. 189. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
261. *Anisia cineraria*, p. 189. "Mexico, Chilpancingo in Guerrero 4600 feet (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
262. *Anisia pallidipalpis*, p. 190. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
263. *Anisia fulvipennis*, p. 190, pl. 4, figs. 15, 15 a. "Mexico, Amula 6000 feet, Xucumanatlan 7000 feet, both in Guerrero, Teapa in Tabasco (H. H. Smith)". 1 ♂, 4 ♀♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
264. *Anisia ruficoxa*, p. 190. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
265. *Anisia pulicaria*, p. 191. "Mexico, Orizaba (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
266. *Anisia neglecta*, p. 191. "Mexico, Sierra de las Aguas Escondidas in Guerrero 7000 feet (*sic!*) (9500 feet) (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
267. *Anisia stolidi*, p. 192. "Mexico, Venta de Zopilote in Guerrero 2800 feet (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
268. *Anisia trifilata*, p. 192. "Mexico, Chilpancingo in Guerrero 4600 feet (H. H. Smith)". 1 ♀. An unplaced Eryciini (Guimarães, 1971: 215) (Tachinidae).
269. *Anisia aegrota*, p. 192. "Mexico, Sierra de las Aguas Escondidas in Guerrero 7000 feet (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
270. *Anisia intrusa*, p. 193. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
271. *Anisia signata*, p. 193. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
272. *Anisia nigella*, p. 193. "Mexico, Teapa in Tabasco (H. H. Smith)". 2 ♂♂, 2 ♀♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
273. *Anisia candicans*, p. 194. "Mexico, Cuernavaca in Morelos (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
274. *Anisia congerens*, p. 194. "Mexico, Chilpancingo 4600 feet, Amula 6000 feet, both in Guerrero (H. H. Smith)". 1 ♂, 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
275. *Anisia morionella*, p. 195. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 1 ♂. Unchanged (Guimarães, 1971: 125) (Tachinidae).
276. *Anisia pullata*, p. 195. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
277. *Anisia inepta*, p. 195. "Mexico, Tierra Colorada 2000 feet, Venta de Zopilote 2800, Amula 6000 feet, all in Guerrero (H. H. Smith)". 3 ♀♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).

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278. *Anisia accedens*, p. 196. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 2 ♀♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
279. *Anisia peregrina*, p. 196. "Mexico, Xucumanatlan in Guerrero 7000 feet (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
280. *Anisia fatua*, p. 197. "Mexico, Venta de Zopilote in Guerrero 2800 feet (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
281. *Anisia nigrithorax*, p. 197. "Mexico, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". 1 ♂, 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
282. *Anisia obscurifrons*, p. 197. "Mexico, Teapa in Tabasco". 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
283. *Anisia aberrans*, p. 198. "Mexico, Amula 6000 feet, Omilteme 8000 feet, both in Guerrero (H. H. Smith)". 3 ♂♂. Unchanged (Guimarães, 1971: 125) (Tachinidae).
284. *Anisia macroptera*, p. 198. "Mexico, near the city (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
285. *Anisia mucorea*, p. 199. "Mexico, Chilpancingo in Guerrero 4600 feet, Cuernavaca in Morelos (H. H. Smith)". 2 ♂♂, 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
286. *Anisia conspersa*, p. 199. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 4 ♂♂. Unchanged (Guimarães, 1971: 125) (Tachinidae).
287. *Anisia niveomarginata*, p. 200. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 1 ♀. Now in *Spathidexia* (Guimarães, 1971: 95) (Tachinidae).
288. *Anisia umbrina*, p. 200. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
289. *Anisia opaca*, p. 200. "Mexico, Sierra de las Aguas Escondidas 7000 feet, and Omilteme 8000 feet, both in Guerrero (H. H. Smith)". 6 ♀♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
290. *Anisia gagatina*, p. 201. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♂, 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
291. *Anisia nigrocincta*, p. 201. "Mexico, Chilpancingo 4600 feet, Xucumanatlan 7000 feet, both in Guerrero (H. H. Smith)". 2 ♀♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
292. *Anisia remissa*, p. 201. "Mexico, Venta de Zopilote in Guerrero 2800 feet (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
293. *Anisia approximata*, p. 202. "Mexico, Venta de Zopilote in Guerrero 2800 feet (H. H. Smith)". 2 ♀♀. An unplaced Eumasicerini (Guimarães, 1971: 164) (Tachinidae).
294. *Anisia palposa*, p. 202. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
295. *Anisia ciliata*, p. 203. "Mexico, Cuernavaca in Morelos (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 125) (Tachinidae).
296. *Anisia ophtalmica*, p. 203. "Mexico, Venta de Zopilote in Guerrero 2800 feet (H. H. Smith)". 1 ♂. Unchanged (Guimarães, 1971: 125) (Tachinidae).
297. *Anisia similis*, p. 203. "Mexico, Xucumanatlan in Guerrero 7000 feet (H. H. Smith)". 1 ♂. Unchanged (Guimarães, 1971: 125) (Tachinidae).
298. *Anisia misella*, p. 204. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 2 ♀♀. An unplaced Eryciini (Guimarães, 1971: 215) (Tachinidae).

299. *Anisia infima*, p. 204. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 1 ♀. An unplaced Eryciini (Guimarães, 1971: 214) (Tachinidae).
300. *Sphaerina nitidula*, p. 205, pl. 4, figs. 16, 16 a. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 149) (Tachinidae).
301. *Rhinophora laevigata*, p. 205, pl. 4, figs. 17, 17 a. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♀. Now in *Periscepsia* (Guimarães, 1971: 92) (Tachinidae).
302. *Leucostoma gravipes*, p. 207. "Mexico, Xucumanatlan in Guerrero 7000 feet (H. H. Smith)". 1 ♂. Unchanged (Guimarães, 1971: 18) (Tachinidae).
303. *Clista muscaeformis*, p. 207, pl. 4, figs. 18, 18 a. "Mexico, Medellin near Vera Cruz (H. H. Smith)". 1 ?♀. Now in *Myiophasia* (Guimarães, 1971: 27) (Tachinidae).
304. *Myiothyria trichosoma*, p. 208. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♀. An unplaced Blondeliini (Guimarães, 1971: 153) (Tachinidae).

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305. *Myiothyria majorina*, p. 209, pl. 4, figs. 19, 19 a. "Mexico, Chilpancingo 4600 feet, Amula 6000 feet, Xucumanatlan 7000 feet, Omilteme 8000 feet, all in Guerrero, Teapa in Tabasco (H. H. Smith)". Many ♂♂ specimens, but only a single ♀. Now in *Ceracia* (Guimarães, 1971: 123) (Tachinidae).
306. *Myiothyria degeerioides*, p. 209. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♀. An unplaced Blondeliini (Guimarães, 1971: 152) (Tachinidae).
307. *Prosenalacertosa*, p. 215, pl. 5, figs. 1, 1 a. "Mexico, Ciudad in Durango 8100 feet (Forrer)". 3 ♂♂, 3 ♀♀. Now *Mochlosoma lacertosum* (Wulp) (Guimarães, 1971: 31) (Tachinidae).
308. *Prosenalacertosa valida*, p. 215, pl. 5, figs. 2, 2 a. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". Several ♂♂ specimens. Not in Guimarães, 1971 catalogue (Tachinidae).
309. *Prosenalacertosa tessellans*, p. 216. "Mexico, Ciudad in Durango 8100 feet (Forrer), Tierra Colorada, Rincon, Tepetlapa, Hacienda de la Imagen, Chilpancingo, Sierra de las Aguas Escondidas and Omilteme, all in Guerrero, 2000-8000 feet (H. H. Smith)". A large series of specimens of both sexes. Now a junior synonym of *Mochlosoma mexicanum* (Macquart, 1851) (Guimarães, 1971: 31) (Tachinidae).
310. *Prosenalacertosa melaena*, p. 217. "Mexico, Xucumanatlan 7000 feet, Omilteme 8000 feet, both in Guerrero (H. H. Smith)". 4 ♂♂, 8 ♀♀. Now in *Microchaetogyne* (Guimarães, 1971: 30) (Tachinidae).
311. *Hystrichodexia contristans*, p. 221. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♂. Now in *Ptilodexia* (Guimarães, 1971: 33) (Tachinidae).
312. *Hystrichodexia coracina*, p. 221. "Mexico, Amula 6000 feet, Omilteme 8000 feet, Sierra de las Aguas Escondidas 9500 feet, all in Guerrero (H. H. Smith)". Several specimens of both sexes. Now in *Topidodexia* (Guimarães, 1971: 35) (Tachinidae).
313. *Scotiptera varipennis*, p. 224. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 35) (Tachinidae).
314. *Rhynchodexia rutilans*, p. 227. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 4 ♂♂, 6 ♀♀. Now in *Ptilodexia* (Guimarães, 1971: 33) (Tachinidae).
315. *Rhynchodexia discolor*, p. 227. "Mexico, Ciudad in Durango 8100 feet (Forrer), La Venta 300 feet, Amula 6000 feet, Xucumanatlan 7000 feet, and Omilteme 8000 feet,

- all in Guerrero (H. H. Smith)". Atoyac in Vera Cruz (Schumann)". Several specimens of both sexes. Now in *Ptilodexia* (Guimarães, 1971: 33) (Tachinidae).
316. *Rhynchodexia conjuncta*, p. 228. "Mexico, Ciudad in Durango 8100 feet (Forrer), Xucumanatlan 7000 feet in Guerrero (H. H. Smith)". 2 ♂♂. Now in *Ptilodexia* (Guimarães, 1971: 33) (Tachinidae).
317. *Rhynchodexia simulans*, p. 229. "Mexico, Northern Sonora (Morrison), 2 ♂♂. Now in *Ptilodexia* (Guimarães, 1971: 34) (Tachinidae).
318. *Rhynchodexia fraterna*, p. 229. "Mexico, Tepic, Santiago Iscuintla (Schumann), Orizaba (H. H. Smith and F. D. Godman), Acapulco, Tierra Colorada, Rincon, Venta de Zopilote, Chilpancingo and Amula, all in Guerrero, 2000-6000 feet, Cuernavaca in Morelos, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". Several specimens of both sexes. Now in *Ptilodexia* (Guimarães, 1971: 33) (Tachinidae).
319. *Rhynchodexia scutellata*, p. 230. "Mexico, Ciudad in Durango 8100 feet (Forrer)". 2 ♂♂, 2 ♀♀. Now in *Ptilodexia* (Guimarães, 1971: 34) (Tachinidae).
320. *Rhynchodexia rubricornis*, p. 230. "Mexico, northern Sonora (Morrison), La Venta 300 feet, Amula 6000 feet, Xucumanatlan 7000 feet, Omilteme 8000 feet, Sierra de las Aguas Escondidas 9500 feet, all in Guerrero, Teapa in Tabasco (H. H. Smith), Atoyac in Vera Cruz (Schumann)". A large series of specimens, mostly ♂♂. Now in *Ptilodexia* (Guimarães, 1971: 33) (Tachinidae).
321. *Rhynchodexia rufianalis*, p. 231. "Mexico, Chilpancingo 4600 feet, Amula 6000 feet, both in Guerrero (H. H. Smith), Santiago Iscuintla in Jalisco (H. H. Smith), Northern Yucatan (Gaumer)". ♂♂, ♀♀. Now in *Ptilodexia* (Guimarães, 1971: 33) (Tachinidae).
322. *Rhynchodexia varipes*, p. 231. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 4 ♂♂, 1 ♀. Now in *Ptilodexia* (Guimarães, 1971: 34) (Tachinidae).
323. *Rhynchodexia strigilata*, p. 232. "Mexico, Ciudad in Durango 8100 feet (Forrer)". 1 ♀. Now in *Ptilodexia* (Guimarães, 1971: 34) (Tachinidae).
324. *Rhynchodexia macroptera*, p. 232. "Mexico, Venta de Zopilote 2800 feet, Amula 6000 feet, Omilteme 8000 feet, Sierra de las Aguas Escondidas 9500 feet, all in Guerrero, Mexico City (H. H. Smith)". A large series of specimens, all ♀♀. Now in *Ptilodexia* (Guimarães, 1971: 33) (Tachinidae).
325. *Rhynchodexia punctipennis*, p. 233. "Mexico, Ciudad in Durango 8100 feet (Forrer), Omilteme 8000 feet, and Sierra de las Aguas Escondidas 9500 feet, both in Guerrero (H. H. Smith)". 4 ♂♂, 6 ♀♀. Now in *Ptilodexia* (Guimarães, 1971: 33) (Tachinidae).
326. *Rhynchodexia angulata*, p. 233. "Mexico, Ciudad in Durango (Forrer), Jalisco (Schumann), Acapulco, Xucumanatlan 7000 feet, Omilteme 8000 feet, Sierra de las Aguas Escondidas 9500 feet, all in Guerrero (H. H. Smith)". ♂♂, ♀♀. Now in *Ptilodexia* (Guimarães, 1971: 33) (Tachinidae).
327. *Rhynchodexia planifrons*, p. 234, pl. 5, fig. 7. "Mexico, Ciudad in Durango 8100 feet (Forrer)". 1 ♂. Now in *Ptilodexia* (Guimarães, 1971: 33) (Tachinidae).
328. *Rhynchodexia praeusta*, p. 235. "Mexico, Ciudad in Durango 8100 feet (Forrer)". 2 ♂♂. Now in *Ptilodexia* (Guimarães, 1971: 33) (Tachinidae).
329. *Rhynchodexia omissa*, p. 235. "Mexico, Acapulco, Amula and Dos Arroyos, all in Guerrero (H. H. Smith), Santiago Iscuintla in Jalisco (Schumann), Northern Yucatan (Gaumer)". 5 ♂♂, 3 ♀♀. Now in *Ptilodexia* (Guimarães, 1971: 33) (Tachinidae).

330. *Rhynchodexia imitatrix*, p. 236. "Mexico, Acapulco, Omilteme 8000 feet, Sierra de las Aguas Escondidas 9500 feet, all in Guerrero, Teapa in Tabasco (H. H. Smith), Jalisco (Schumann)". Several ♂♂, 2 ♀♀. Now in *Ptilodexia* (Guimarães, 1971: 33) (Tachinidae).
331. *Myocera rava*, p. 237. "Mexico, Ciudad in Durango 8100 feet (Forrer), Omilteme in Guerrero 8000 feet (H. H. Smith)". 6 ♀♀. An unrecognized Proseninae (Guimarães, 1971: 39) (Tachinidae).
332. *Stomatodexia similigena*, p. 239. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 1 ♂, 1 ♀. Unchanged (Guimarães, 1971: 119) (Tachinidae).
333. *Megaparia venosa*, p. 240, pl. 5, figs. 9, 9 a. "Mexico, Ciudad in Durango 8100 feet (Forrer)". 1 ♀. Unchanged (Guimarães, 1971: 23) (Tachinidae).
334. *Microchaetina cinerea*, p. 241, pl. 5, figs. 10, 10 a. "Mexico, Presidio de Mazatlan (Forrer)". 2 ♂♂, 4 ♀♀. Unchanged (Guimarães, 1971: 28) (Tachinidae).
335. *Camarona xanthogastra*, p. 241, pl. 5, figs. 11, 11 a. "Mexico, Sierra de las Aguas Escondidas 7000 feet, Omilteme 8000 feet, both in Guerrero (H. H. Smith)". 4 ♂♂. Unchanged (Guimarães, 1971: 36) (Tachinidae).
336. *Camarona caeruleonigra*, p. 242. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 36) (Tachinidae).
337. *Dexia genuina*, p. 243. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 2 ♂♂, 3 ♀♀. An unrecognized Dexiinae (Guimarães, 1971: 122) (Tachinidae).
338. *Dexiosoma vibrissatum*, p. 244, pl. 5, figs. 13, 13 a. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂. Now *Microphthalma vibrissata* (Wulp) (Guimarães, 1971: 24) (Tachinidae).
339. *Stenodexia albicincta*, p. 246, pl. 5, figs. 15, 15 a. "Mexico, Teapa in Tabasco (H. H. Smith), Temax in North Yucatan (Gaumer)". 7 ♂♂. Unchanged (Guimarães, 1971: 108) (Tachinidae).
340. *Melaleuca spectabilis*, p. 248, pl. 6, figs. 3, 3 a. "Mexico, Xucumanatlan in Guerrero 7000 feet (H. H. Smith)". 1 ♀. Now in *Zelia* (Guimarães, 1971: 103) (Tachinidae).
341. *Euantha pulchra*, p. 249. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 5 ♀♀. Unchanged (Guimarães, 1971: 111) (Tachinidae).
342. *Leptoda semirufa*, p. 250. "Mexico, Temax in North Yucatan (Gaumer)". 1 ?♂. Now in *Zelia* (Guimarães, 1971: 103) (Tachinidae).
343. *Cordyligaster minuscula*, p. 252, pl. 6, figs. 7, 7 a. "Mexico, Rio Papagaio, Tierra Colorada 2000 feet, both in Guerrero, Teapa in Tabasco (H. H. Smith)". A long series of specimens of both sexes. Now in *Eucordyligaster* (Guimarães, 1971: 112) (Tachinidae).
344. *Chaetona congrua*, p. 253. "Mexico, Xucumanatlan in Guerrero 7000 feet (H. H. Smith)". 1 ?♀. Unchanged (Guimarães, 1971: 105) (Tachinidae).
345. *Thelairoides cinereicollis*, p. 255. "Mexico, Amula 6000 feet, Sierra de las Aguas Escondidas 9500 feet, both in Guerrero (H. H. Smith)". 1 ♂, 1 ♀. Now in *Spathidexia* (Guimarães, 1971: 95) (Tachinidae).
346. *Thelairoides pallida*, p. 255, pl. 6, figs. 10, 10 a. "Mexico, Venta de Zopilote in Guerrero 2800 feet (H. H. Smith)". 1 ♀. Same but *T. pallidus* (Guimarães, 1971: 95) (Tachinidae).
347. *Calodexia majuscula*, p. 257, pl. 6, figs. 12, 12 a. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂. Unchanged (Guimarães, 1971: 154) (Tachinidae).

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348. *Calodexia calceata*, p. 258. "Mexico, Venta de Zopilote in Guerrero 2800 feet, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". 2 ♂♂, 2 ♀♀. Now in *Cholomyia* (Guimarães, 1971: 106) (Tachinidae).
349. *Calodexia obscuripes*, p. 258. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♂. Unchanged (Guimarães, 1971: 154) (Tachinidae).
350. *Rhombothyria flavicosta*, p. 259, pl. 6, figs. 13, 13 a. "Mexico, Venta de Zopilote in Guerrero 2800 feet (H. H. Smith)". 6 ?♂♂. Unchanged (Guimarães, 1971: 94) (Tachinidae).
351. *Pseudomorinia pictipennis*, p. 260, pl. 6, figs. 14, 14 a. "Mexico, Xucumanatlan in Guerrero 7000 feet (H. H. Smith)". 1 ♂. Unchanged (Guimarães, 1971: 100) (Tachinidae).
352. *Morinia trichopoda*, p. 261. "Mexico, Medellin in Vera Cruz, Teapa in Tabasco (H. H. Smith)". 6 ♂♂, 2 ♀♀. Now in *Ebenia* (Guimarães, 1971: 109) (Tachinidae).
353. *Morinia longitarsis*, p. 261. "Mexico, Orizaba (F. D. Godman and O. Salvin), Amula 6000 feet, Omilteme 8000 feet, both in Guerrero (H. H. Smith)". 1 ♂, 2 ♀♀. An unplaced Urodexiini (Guimarães, 1971: 109) (Tachinidae).
354. *Morinia fumata*, p. 261. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂. An unplaced Ebeniini (Guimarães, 1971: 110) (Tachinidae).
355. *Comyops nigripennis*, p. 262, pl. 6, figs. 15, 15 a. "Mexico, Teapa in Tabasco (H. H. Smith)". 2 ♂♂. Unchanged (Guimarães, 1971: 109) (Tachinidae).
356. *Comyops striaticollis*, p. 262. "Mexico, Venta de Zopilote in Guerrero 2800 feet (H. H. Smith)". 1 ♂. Unchanged (Guimarães, 1971: 109) (Tachinidae).
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357. *Trichopoda nitdiventris*, p. 183 (♂); 1903: 435. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". ♂. Now in *Eutrichopoda* (Guimarães, 1971: 7) (Tachinidae).
358. *Trichopoda alipes*, p. 183 (♂); 1903: 435. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♂. Unchanged (Guimarães, 1971: 9) (Tachinidae).
359. *Trichopoda squamipes*, p. 184 (♂); 1903: 436, pl. 13, figs. 7, 7 a. "Mexico, Xucumanatlan and Omilteme in Guerrero (H. H. Smith)". 2 ♂♂. Unchanged (Guimarães, 1971: 9) (Tachinidae).
360. *Trichopoda nigripes*, p. 184 (♂, ♀); 1903: 436. "Mexico, Xucumanatlan and Omilteme in Guerrero (H. H. Smith), Mexico City (Schumann), Northern Yucatan (Gaumer)". Several specimens of both sexes. Unchanged (Guimarães, 1971: 9) (Tachinidae).
361. *Homogenia rufipes*, p. 184 (♂); 1903: 438. "Mexico, Acahuizotla and Chilpancingo in Guerrero (H. H. Smith), Northern Yucatan (Gaumer)". 2 ♂♂, 1 ♀. Unchanged (Guimarães, 1971: 8) (Tachinidae).
362. *Homogenia latipennis*, p. 184 (♂, ♀); 1903: 438, pl. 13, figs. 8, 8 a. "Mexico, Acahuizotla in Guerrero, Atoyac in Vera Cruz (H. H. Smith), Santiago Iscuintla in Jalisco (Schumann)". 3 ♂♂. Unchanged (Guimarães, 1971: 8) (Tachinidae).
363. *Homogenia nigroscutellata*, p. 184 (♂); 1903: 439. "Mexico, Acahuizotla and Chilpancingo in Guerrero (H. H. Smith)". 2 ♂♂. Unchanged (Guimarães, 1971: 8) (Tachinidae).

364. *Hyalomyia munda*, p. 185 (♂); 1903: 441, pl. 13, figs. 9, 9 a. "Mexico, Atoyac in Vera Cruz, Rincon in Guerrero (H. H. Smith)". 3 ♂♂. Now in *Heyneophasia* (Guimarães, 1971: 12) (Tachinidae).
365. *Hyalomyia villosa*, p. 185 (♂); 1903: 441. "Mexico, Orizaba (Coll. Bellardi)". 1 ♂. Unchanged but *Hyalomya* (Guimarães, 1971: 13) (Tachinidae).
366. *Hyalomyia hebes*, p. 185 (♂); 1903: 441. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 2 ♂♂. Now in *Heyneophasia* (Guimarães, 1971: 12) (Tachinidae).
367. *Hyalomyia ochriceps*, p. 185 (♂); 1903: 442. "Mexico, Rincon in Guerrero (H. H. Smith)". 1 ♂. Now in *Heyneophasia* (Guimarães, 1971: 12) (Tachinidae).
368. *Hyalomyia argenticeps*, p. 185 (♂); 1903: 442. "Mexico, Xucumanatlan in Guerrero (H. H. Smith)". 1 ♂. Now in *Heyneophasia* (Guimarães, 1971: 12) (Tachinidae).
369. *Hyalomyia nigrens*, p. 185 (♀); 1903: 443. "Mexico, Omilteme, Xucumanatlan and Amula in Guerrero (H. H. Smith)". 6 ♀♀. Now in *Alophorella* (Guimarães, 1971: 12) (Tachinidae).
370. *Hyalomyia piceipes*, p. 186 (♀); 1903: 443. "Mexico, Omilteme in Guerrero (H. H. Smith)". 2 specimens. Now in *Alophorella* (Guimarães, 1971: 12) (Tachinidae).
371. *Hyalomyia moerens*, p. 186 (♀); 1903: 443. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 2 specimens. Now in *Alophorella* (Guimarães, 1971: 12) (Tachinidae).
372. *Hyalomyia umbrosa*, p. 186 (♀); 1903: 444, pl. 13, figs. 10, 10 a. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 specimen. Unchanged but *Hyalomya* (Guimarães, 1971: 13) (Tachinidae).
373. *Hyalomyia umbrifera*, p. 186 (♀); 1903: 444. "Mexico, Xucumanatlan and Omilteme in Guerrero 7000-8000 feet (H. H. Smith)". 10 specimens. Unchanged but *Hyalomya* (Guimarães, 1971: 13) (Tachinidae).
374. *Cistogaster ruficornis*, p. 186 (♂); 1903: 446. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂. Now in *Gymnosoma* (Guimarães, 1971: 5) (Tachinidae).
375. *Cistogaster melanosoma*, p. 186 (♀); 1903: 446. "Mexico, Chilpancingo and Xucumanatlan in Guerrero (H. H. Smith)". 2 ♀♀. Now in *Gymnoclytia* (Guimarães, 1971: 5) (Tachinidae).
376. *Cistogaster subpetiolata*, p. 186 (♀); 1903: 446. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♀. Now in *Gymnoclytia* (Guimarães, 1971: 5) (Tachinidae).
377. *Cistogaster propinqua*, p. 187 (♀); 1903: 447. "Mexico, Tepetlapa in Guerrero (H. H. Smith)". 2 ♀♀. Now in *Gymnoclytia* (Guimarães, 1971: 5) (Tachinidae).
378. *Cistogaster griseonigra*, p. 187 (♀); 1903: 447. "Mexico, Acaguizotla, Chilpancingo, and Amula in Guerrero (H. H. Smith)". 9 ♀♀. Now in *Gymnoclytia* (Guimarães, 1971: 5) (Tachinidae).
379. *Cistogaster ferruginosa*, p. 187 (♂); 1903: 448. "Mexico, Dos Arroyos, Tierra Colorada, Chilpancingo, Amula, Xucumanatlan, and Omilteme in Guerrero, Teapa in Tabasco (H. H. Smith)". Several ♂♂. Now in *Gymnoclytia* (Guimarães, 1971: 5) (Tachinidae).
380. *Cistogaster hirticollis*, p. 187 (♂); 1903: 448. "Mexico, (Coll. Bellardi), Xucumanatlan and Omilteme in Guerrero 7000-8000 feet (H. H. Smith)". 5 ♂♂. Now in *Gymnoclytia* (Guimarães, 1971: 5) (Tachinidae).
381. *Cistogaster variegata*, p. 187 (♂); 1903: 449. "Mexico, Chilpancingo in Guerrero (H. H. Smith)". 1 ♂. Now in *Gymnoclytia* (Guimarães, 1971: 5) (Tachinidae).

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382. *Ocyptera signatipennis*, p. 187 (♂); 1903: 450, pl. 13, fig. 11. Mexico, Chilpancingo in Guerrero (H. H. Smith)". 1 ♂. Now in *Cylindromyia* (Guimarães, 1971: 16) (Tachinidae).
383. *Xanthomelana articulata*, p. 188 (♂); 1903: 452, pl. 13, fig. 13. "Mexico, Atoyac in Vera Cruz (H. H. Smith), Orizaba (Coll. Bellardi)". 2 ♂♂. Now in *Xenophasia* (Guimarães, 1971: 11) (Tachinidae).
384. *Xanthomelana rubicunda*, p. 188 (?♂); 1903: 453. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 specimen. Now *Xanthomelanodes rubicundus* (Wulp) (Guimarães, 1971: 10) (Tachinidae).
385. *Xanthomelana dorsalis*, p. 188 (♂, ♀); 1903: 453. "Mexico, Rio Papagaio, Xucumanatlan and Omilteme in Guerrero (H. H. Smith), Atoyac in Vera Cruz (Schumann)". Several specimens of both sexes. Now in *Xanthomelanodes* (Guimarães, 1971: 10) (Tachinidae).
386. *Xanthomelana trigonalis*, p. 188 (♂); 1903: 454. "Mexico, Xucumanatlan in Guerrero 7000 feet (H. H. Smith)". 1 ♂. Now in *Xanthomelanopsis* (Guimarães, 1971: 11) (Tachinidae).
387. *Xanthomelana gracilenta*, p. 189 (♂, ♀); 1903: 454, pl. 13, figs. 14, 14 a. "Mexico, Rincon in Guerrero (H. H. Smith)". 2 specimens. Now *Xanthomelanodes gracilentus* (Wulp) (Guimarães, 1971: 10) (Tachinidae).
388. *Xanthomelana anceps*, p. 189 (♂); 1903: 455, pl. 13, fig. 15. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 3 ♂♂. Now in *Vanderwulpella* (Guimarães, 1971: 18) (Tachinidae).
389. *Clinogaster notabilis*, p. 189 (♂); 1903: 457, pl. 13, figs. 17, 17 a. "Mexico, Venta de Zopilote in Guerrero (H. H. Smith)". 1 ♂. Unchanged (Guimarães, 1971: 15) (Tachinidae).
390. *Dejeania montana*, p. 190 (♂, ♀); 1903: 459. "Mexico, Xucumanatlan, Omilteme and Sierra de las Aguas Escondidas, all in Guerrero 7000-9500 feet (H. H. Smith)". A long series of specimens of both sexes. Now in *Protodejeania* (Guimarães, 1971: 60) (Tachinidae).
391. *Hystricia testaceiventris*, p. 190 (♂); 1903: 460. "Mexico, Xucumanatlan in Guerrero 7000 feet (H. H. Smith)". 1 ♂. Now in *Hystriciopsis* (Guimarães, 1971: 42) (Tachinidae).
392. *Hystricia albosignata*, p. 190 (♂); 1903: 461. "Mexico, Xucumanatlan and Omilteme in Guerrero 7000-8000 feet (H. H. Smith)". Several ♂♂. Now in *Calohystricia* (Guimarães, 1971: 40) (Tachinidae).
393. *Saundersia montivaga*, p. 190 (♂, ♀); 1903: 463. "Mexico, Xucumanatlan and Omilteme in Guerrero 7000-8000 feet (H. H. Smith)". 1 ♂, 2 ♀♀. Now *Epalpus montivagus* (Wulp) (Guimarães, 1971: 64) (Tachinidae).
394. *Saundersia femorata*, p. 191 (♂, ♀); 1903: 464. "Mexico, Omilteme and Sierra de las Aguas Escondidas in Guerrero 8000-9500 feet (H. H. Smith)". 1 ♂, 2 ♀♀. Now *Epalpus femoratus* (Wulp) (Guimarães, 1971: 64) (Tachinidae).
395. *Saundersia consanguinea*, p. 190 (♂, ♀); 1903: 465. "Mexico (Coll. Bellardi), Xucumanatlan and Omilteme in Guerrero 7000-8000 feet (H. H. Smith), Guatemala, San Geronimo (Champion)". 1 ♂, 3 ♀♀. Now *Epalpus consanguineus* (Wulp) (Guimarães, 1971: 64) (Tachinidae).

396. *Saundersia laeta*, p. 191 (♂, ♀); 1903: 465. "Mexico, Xucumanatlan and Omilteme in Guerrero 7000-8000 feet (H. H. Smith)". 6 ♂♂, 2 ♀♀. Now *Xanthoepalpus laetus* (Wulp) (Guimarães, 1971: 74) (Tachinidae).
397. *Jurinia nitidula*, p. 191 (♂, ♀); 1903: 467. "Mexico, Santiago Iscuintla in Jalisco and Tepic (Schumann), Rio Papagaio, Acaguizotla, Chilpancingo, Amula, Xucumanatlan, Omilteme and Acapulco, all in Guerrero (H. H. Smith)". Several specimens of both sexes. Now in *Juriniopsis* (Guimarães, 1971: 58) (Tachinidae).
398. *Jurinia punctata*, p. 191 (♀); 1903: 468. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♀. Now a junior synonym of *Pararchytas decisis* (Walker, 1849) (Guimarães, 1971: 59) (Tachinidae).
399. *Jurinia nepticula*, p. 191 (♂, ♀); 1903: 468. "Mexico, Amula and Xucumanatlan in Guerrero (H. H. Smith)". 2 ♂♂, 3 ♀♀. Now *Archytas nepticulus* (Wulp) (Guimarães, 1971: 51) (Tachinidae).
400. *Jurinia assimilis*, p. 192 (♂, ♀); 1903: 469. "Mexico, Venta de Zopilote, Chilpancingo, Xucumanatlan, Omilteme, Atoyac, Teapa (H. H. Smith), Northern Yucatan (Gauger)". Several specimens of each sex. Now in *Eujurinioides* (Guimarães, 1971: 54) (Tachinidae).
401. *Jurinia congruens*, p. 192 (♂, ♀); 1903: 469. "Mexico, Northern Yucatan (Gauger)". 1 ♂, 1 ♀. A junior synonym of *Archytas lateralis* (Macquart, 1843) (Guimarães, 1971: 50) (Tachinidae).
402. *Jurinia spinigera*, p. 192 (♀); 1903: 467. "Mexico, Xucumanatlan and Omilteme in Guerrero 7000-8000 feet (H. H. Smith)". 2 ♀♀. A junior synonym of *Jurinella ambigua* (Macquart, 1851) (Guimarães, 1971: 56) (Tachinidae).
403. *Echinomyia generosa*, p. 192 (♂, ♀); 1903: 472. "Mexico (Coll. Bellardi), Xucumanatlan and Omilteme in Guerrero 7000-8000 feet (H. H. Smith)". 4 ♂♂, 6 ♀♀. Now in *Peleteria* (Guimarães, 1971: 44) (Tachinidae).
404. *Echinomyia compascua*, p. 192 (♂); 1903: 473. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 4 ♂♂. Now in *Peleteria* (Guimarães, 1971: 44) (Tachinidae).
405. *Micropalpus angustifrons*, p. 193 (♂); 1903: 474. "Mexico, Teapa in Tabasco (H. H. Smith)". 3 ♂♂. An unplaced Linnaemyini (Guimarães, 1971: 83) (Tachinidae).
406. *Trichophora fucata*, p. 193 (?sex); 1903: 476. "Mexico (Coll. Bellardi), Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". Several specimens of both sexes. Now *Deopalpus fucatus* (Wulp) (Guimarães, 1971: 76) (Tachinidae).
407. *Trichophora convexinervis*, p. 193 (♂, ♀); 1903: 476. "Mexico (Coll. Bellardi), Omilteme and Xucumanatlan in Guerrero (H. H. Smith)". 2 ♂♂, 3 ♀♀. Unchanged (Guimarães, 1971: 72) (Tachinidae).
408. *Gymnomma discors*, p. 193 (♂, ♀); 1903: 477. "Mexico (Coll. Bellardi), Xucumanatlan and Omilteme in Guerrero 7000-8000 feet (H. H. Smith)". 10 ♂♂, 2 ♀♀. Now in *Parepalpus* (Guimarães, 1971: 69) (Tachinidae).
409. *Nemochaeta frontalis*, p. 194 (♂); 1903: 478. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 2 ♂♂. Now in *Archytas* (Guimarães, 1971: 50) (Tachinidae).
410. *Nemochaeta nitida*, p. 194 (♂, ♀); 1903: 479. "Mexico, Cuernavaca in Morelos (H. H. Smith)". 3 ♂♂, 1 ♀. Now *Archytas nitidus* (Wulp) (Guimarães, 1971: 51) (Tachinidae).
411. *Nemochaeta infuscata*, p. 194 (♀); 1903: 479. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Now *Archytas infuscatus* (Wulp) (Guimarães, 1971: 50) (Tachinidae).

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412. *Cnephalia ochriceps*, p. 154 (♀); 1903: 481. "Mexico, Santiago Iscuintla in Jalisco (Schumann)". 2 ♀♀. Now in *Chaetogaedia* (Guimarães, 1971: 178) (Tachinidae).
413. *Gymnochaeta subviridis*, p. 194 (♀); 1903: 480. "Mexico (Coll. Bellardi)". 1 ♀. Now in *Chrysotachina* (Guimarães, 1971: 81) (Tachinidae).
414. *Meigenia albifacies*, p. 194 (♀); 1903: 481. "Mexico, Venta de Zopilote in Guerrero (H. H. Smith)". 1 ♀. Now in *Paralispe* (Guimarães, 1971: 145) (Tachinidae).
415. *Exorista leuconota*, p. 195 (♀); 1903: 482. "Mexico, Amula in Guerrero (H. H. Smith)". 1 ♀. Now *Leptostylum leuconotum* (Wulp) (Guimarães, 1971: 137) (Tachinidae).
416. *Miltogramma nana*, p. 195 (♀); 1903: 483. "Mexico, Xucumanatlan in Guerrero (H. H. Smith)". 1 ♀. Now in *Senotainia* Macquart (Lopes, 1969: 5) (Sarcophagidae).
417. *Admontia occidentalis*, p. 195 (♀); 1903: 485. "Mexico, Sierra de las Aguas Escondidas in Guerrero 9500 feet (H. H. Smith)". 2 ♀♀. Unchanged (Guimarães, 1971: 171) (Tachinidae).

1895:

418. *Paramintha modulata*, p. 266, pl. 7, figs. 1, 1 a. "Mexico, Sierra de las Aguas Escondidas in Guerrero 9500 feet (H. H. Smith)". 1 ♂. Unchanged (Lopes, 1969: 33) (Sarcophagidae).
419. *Sarcophaga villipes*, p. 269, pl. 7, fig. 2. "Mexico, northern Sonora (Morrison), Omilteme 8000 feet, Amula 6000 feet, both in Guerrero (H. H. Smith)". 1 ♂, 4 ♀♀. Now in *Sabinata* (Lopes, 1969: 46) (Sarcophagidae).
420. *Sarcophaga rufitibia*, p. 270, pl. 7, figs. 3, 3 a. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 4 ♂♂. Now in *Sthenopyga* (Lopes, 1969: 16) (Sarcophagidae).
421. *Sarcophaga vagabunda*, p. 270, pl. 7, fig. 4. "Mexico, Mexico city, Cuernavaca in Morelos, Amula 6000 feet and Xucumanatlan 7000 feet both in Guerrero, Atoyac in Vera Cruz (H. H. Smith), Orizaba (H. H. Smith and F. D. Godman)". Several ♂♂ and a single ♀. Now in *Chaetoravinia* (Lopes, 1969: 23) (Sarcophagidae).
422. *Sarcophaga acanthoptera*, p. 271, pl. 7, fig. 5. "Mexico, Amula in Guerrero 6000 feet, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". 1 ♂, 3 ♀♀. Now in *Rafaelia* (Lopes, 1969: 33) (Sarcophagidae).
423. *Sarcophaga xanthopyga*, p. 271. "Mexico, Amula 6000 feet, La Venta 300 feet, both in Guerrero, Cuernavaca in Morelos (H. H. Smith), Orizaba (F. D. Godman and H. H. Smith)". Several specimens of both sexes. Now a junior synonym of *Chaetoravinia effrenata* (Walker, 1861) (Lopes, 1969: 23) (Sarcophagidae).
424. *Sarcophaga conjugens*, p. 272. "Mexico, Atoyac in Vera Cruz (H. H. Smith), Orizaba (H. H. Smith and F. D. Godman)". 2 ♂♂. A junior synonym of *Chaetoravinia effrenata* (Walker, 1861) (Lopes, 1969: 23) (Sarcophagidae).
425. *Sarcophaga stellata*, p. 272. "Mexico, Tierra Colorada 2000 feet, Xucumanatlan 7000 feet, Amula 6000 feet and Omilteme 8000 feet, all in Guerrero, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". 8 ♂♂, 4 ♀♀. Now in *Helicobia* (Lopes, 1969: 41) (Sarcophagidae).

1896:

426. *Sarcophaga surrubea*, p. 273. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂. Now in *Helicobia* (Lopes, 1969: 41) (Sarcophagidae).

427. *Sarcophaga plumigera*, p. 273; 1896: 273, pl. 7, figs. 6, 6 a. "Mexico, Teapa in Tabasco (H. H. Smith)". 3 ♂♂, 2 ♀♀. Now in *Notochaeta* (Lopes, 1969: 12) (Sarcophagidae).
428. *Sarcophaga ventricosa*, p. 274. "Mexico, Chilpancingo in Guerrero 4600 feet Teapa in Tabasco (H. H. Smith)". 2 ♂♂. Now in *Oxysarcodexia* (Lopes, 1969: 27) (Sarcophagidae).
429. *Sarcophaga diversinervis*, p. 274, pl. 7, fig. 7. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂, 1 ♀. Now in *Notochaeta* (Lopes, 1969: 12) (Sarcophagidae).
430. *Sarcophaga fuscianalis*, 275. "Mexico, Atoyac and Medellin in Vera Cruz, Teapa in Tabasco (H. H. Smith)". Several ♂♂, 1 ♀. Now in *Notochaeta* (Lopes, 1969: 12) (Sarcophagidae).
431. *Sarcophaga praevolans*, p. 275, pl. 7, figs. 8, 8 a. "Mexico, Xucumanatlan in Guerrero 7000 feet (H. H. Smith), Orizaba (H. H. Smith and F. D. Godman)". 2 ♂♂, 1 ♀. Now in *Boettcheria* (Lopes, 1969: 43; Pape, 1996: 124) (Sarcophagidae).
432. *Sarcophaga setulosa*, p. 276. "Mexico, Ciudad in Durango 8100 feet (Forrer)". 1 ♂. Not in Lopes' 1969 catalogue. An unidentified nominal species-group taxon (Pape, 1996: 443) (Sarcophagidae).
433. *Sarcophaga turbata*, p. 276. "Mexico, Chilpancingo 4600 feet and Amula 6000 feet both in Guerrero, Teapa in Tabasco (H. H. Smith), Orizaba (H. H. Smith and F. D. Godman)". 1 ♂, 4 ♀♀. An unplaced Sarcophagidae (Lopes, 1969: 52) (Sarcophagidae).
434. *Sarcophaga trivialis*, p. 277. "Mexico, Tierra Colorada 2000 feet, Amula 6000 feet, Xucumanatlan 7000 feet, all in Guerrero, Cuernavaca in Morelos, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith), Orizaba (H. H. Smith and F. D. Godman)". Several specimens of both sexes. Now in *Oxysarcodexia* (Lopes, 1969: 27) (Sarcophagidae).
435. *Sarcophaga uncata*, p. 277. "Mexico, Chilpancingo 4600 feet, Amula 6000 feet, both in Guerrero (H. H. Smith), North Yucatan (Gaumer)". 3 ♂♂. Now in *Acridiophaga* (Lopes, 1969: 19) (Sarcophagidae).
436. *Sarcophaga errabunda*, p. 278. "Mexico, Rincon 2800 feet, Chilpancingo 4600 feet and Amula 6000 feet, all in Guerrero, Teapa in Tabasco (H. H. Smith)". 7 ♂♂. Now in *Chaetoravinia* (Lopes, 1969: 23) (Sarcophagidae).
437. *Sarcophaga pusiola*, p. 278. "Mexico, Tepetlapa in Guerrero 3000 feet, Mexico city (H. H. Smith), Orizaba (H. H. Smith and F. D. Godman)". 1 ♂, 3 ♀♀. Now in *Ravinia* (Lopes, 1969: 22) (Sarcophagidae).
438. *Sarcophaga debilis*, p. 279, pl. 7, fig. 9. "Mexico, Amula in Guerrero 6000 feet, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". 1 ♂, 4 ♀♀. Now in *Helicobia* (Lopes, 1969: 40) (Sarcophagidae).
439. *Sarcophaga micropyga*, 279. "Mexico, Chilpancingo in Guerrero (H. H. Smith)". 6 ♂♂, 1 ?♀. Now in *Notochaeta* (Lopes, 1969: 12) (Sarcophagidae).
440. *Sarcophaga claripalpis*, p. 280. "Mexico, Chilpancingo in Guerrero 4600 feet (H. H. Smith), North Yucatan (Gaumer)". 1 ♂, 4 ♀♀. Now in *Paratheresia* (Guimarães, 1971: 37) (Tachinidae).
441. *Sarcophaga sueta*, p. 281. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 3 ♂♂. Now in *Ravinia* (Lopes, 1969: 22) (Sarcophagidae).

442. *Sarcophaga tridens*, p. 281. "Mexico, Chilpancingo 4600 feet, Amula 6000 feet, Xucumanatlan 7000 feet, all in Guerrero (H. H. Smith)". Several ♂♂, 1 ♀. Now a junior synonym of *Acridiophaga uncata* (Wulp, 1896) (Lopes, 1969: 19) (Sarcophagidae).
443. *Sarcophaga deleta*, p. 282. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 1 ♂. An unplaced Sarcophagidae (Lopes, 1969: 52) (Sarcophagidae).
444. *Sarcophaga tenuiventris*, p. 282. "Mexico, Amula in Guerrero, Teapa in Tabasco (H. H. Smith)". 2 ♂♂. Now a junior synonym of *Oxysarcodexia ventricosa* (Wulp, 1895) (Lopes, 1969: 27) (Sarcophagidae).
445. *Sarcophaga oberrans*, p. 283. "Mexico, Chilpancingo in Guerrero 4600 feet (H. H. Smith)". 1 ♂, 2 ♀♀. Now in *Acridiophaga* (Lopes, 1969: 19) (Sarcophagidae).
446. *Sarcophaga triplasia*, p. 283, pl. 7, figs. 10, 10 a. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 1 ♂, 3 ♀♀. Now in *Neobellieria* (Lopes, 1969: 51) (Sarcophagidae).
447. *Sarcophaga tripartita*, p. 284. "Mexico, Guadalajara in Jalisco (Schumann)". 1 ♂. A junior synonym of *Hystricocnema plinthopyga* (Wiedemann, 1830) (Lopes, 1969: 45) (Sarcophagidae).
448. *Sarcophaga pexata*, p. 284. "Mexico, Chilpancingo 4600 feet and Acapulco, both in Guerrero, Atoyac in Vera Cruz (H. H. Smith), Northern Yucatan (Gaumer)". 4 ♂♂, 1 ♀. Now in *Paraphrissopoda* (Lopes, 1969: 37) (Sarcophagidae).
449. *Sarcophaga volucris*, p. 285. "Mexico, Amula in Guerrero, Teapa in Tabasco (H. H. Smith)". 2 ♂♂. Now in *Euboettcheria* (Lopes, 1969: 35) (Sarcophagidae).
450. *Sarcophaga ochripyga*, p. 285. "Mexico, Dos Arroyos 1000 feet, Tepetlapa 3000 feet and Amula 6000 feet, all in Guerrero, Frontera in Tabasco (H. H. Smith), Northern Yucatan (Gaumer)". 2 ♂♂, 4 ♀♀. Now in *Oxysarcodexia* (Lopes, 1969: 26) (Sarcophagidae).
451. *Sarcophaga aequata*, p. 286. "Mexico, Amula in Guerrero 6000 feet, Teapa in Tabasco (H. H. Smith)". 2 ♂♂. Now in *Euboettcheria* (Lopes, 1969: 34) (Sarcophagidae).
452. *Sarcophaga afficta*, p. 286. "Mexico, Cuernavaca in Morelos, Atoyac in Vera Cruz (H. H. Smith), Northern Yucatan (Gaumer)". Several ♂♂ and 1 ♀. Now in *Oxysarcodexia* (Lopes, 1969: 24) (Sarcophagidae).
453. *Onesia lucilioides*, p. 288, pl. 7, fig. 11. "Mexico, Mexico city (H. H. Smith)". 1 ♂. Now a junior synonym of *BufoLucilia silvarum* (Meigen, 1826) (James, 1970: 9) (Calliphoridae).
454. *Sarcophagula imbecilla*, p. 289. "Mexico, Orizaba (H. H. Smith and F. D. Godman), Amula and Chilpancingo in Guerrero, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". Several specimens of both sexes. A junior synonym of *Sarcophagula occidua* (Fabricius, 1794) (Lopes, 1969: 29) (Sarcophagidae).
455. *Sarcophagula canuta*, p. 289, pl. 7, figs. 12, 12 a. "Mexico, Orizaba (H. H. Smith and F. D. Godman), Cuernavaca in Morelos, Tepetlapa 3000 feet, Chilpancingo 4600 feet and Amula 6000 feet all in Guerrero, Atoyac and Medellin in Vera Cruz, Teapa in Tabasco, Mexico city (H. H. Smith)". A considerable series of specimens of both sexes. Unchanged (Lopes, 1969: 29) (Sarcophagidae).
456. *Sarcophagula tenuis*, p. 290. "Mexico, Chilpancingo in Guerrero, Cuernavaca in Morelos, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". 2 ♂♂, 2 ♀♀. Unchanged (Lopes, 1969: 29) (Sarcophagidae).

457. *Tyreomma muscinum*, p. 293, pl. 7, figs. 13, 13 a. "Mexico, Omilteme in Guerrero (H. H. Smith)". 1 ♀. Unchanged (Guimarães, 1971: 38) (Tachinidae).
458. *Calliphora melanaria*, p. 295, pl. 7, figs. 15, 15 a. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 3 ♂♂. An unrecognized Proseninae (Guimarães, 1971: 39) (Tachinidae).
459. *Chloroprocta semiviridis*, p. 296, pl. 7, fig. 16. "Mexico, Northern Yucatan (Gaumer)". 1 ♂, 1 ♀. Now a junior synonym of *Chloroprocta fuscanipennis* (Macquart, 1851) (James, 1970: 5) (Calliphoridae).
460. *Morellia sarcophagina*, p. 302, pl. 7, fig. 20. "Mexico, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". 2 ♂♂. Unchanged (Pont, 1972: 9) (Muscidae).
461. *Muscina linea*, p. 304, pl. 7, fig. 22. "Mexico, Tierra Colorada 2000 feet, Amula 6000 feet, Xucumanatlan 7000 feet, Sierra de las Aguas Escondidas 7000-9500 feet, and Omilteme 8000 feet, all in Guerrero (H. H. Smith)". Several specimens of both sexes. Now a junior synonym of *Neomuscina vecta* (Giglio-Tos, 1893) (Pont, 1972: 51) (Muscidae).
462. *Muscina tripunctata*, p. 305. "Mexico, Amula, Xucumanatlan, and Omilteme in Guerrero, Cuernavaca in Morelos (H. H. Smith), Northern Yucatan (Gaumer)". Several specimens of both sexes. Now in *Neomuscina* (Pont, 1972: 51) (Muscidae).
463. *Clinopera frontina*, p. 306. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂. Now a junior synonym of *Cyrtoneurina rescita* (Walker, 1861) (Pont, 1972: 53) (Muscidae).
464. *Clinopera hieroglyphica*, p. 307. "Mexico, Tierra Colorada in Guerrero, Teapa and Frontera in Tabasco (H. H. Smith)". Several specimens of both sexes. Now a junior synonym of *Cyrtoneurina uber* Giglio-Tos, 1893 (Pont, 1972: 54) (Muscidae).
465. *Clinopera dorsilinea*, p. 308. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 1 ♀. Now in *Muscina* (Pont, 1972: 11) (Muscidae).
466. *Clinopera digramma*, p. 308. "Mexico, Chilpancingo 4600 feet, Amula 6000 feet, both in Guerrero (H. H. Smith), Orizaba (H. H. Smith and F. D. Godman)". Several specimens of both sexes". Now a junior synonym of *Cyrtoneurina inuber* Giglio-Tos, 1893 (Pont, 1972: 53) (Muscidae).
467. *Clinopera polystigma*, p. 309, pl. 7, fig. 25. "Mexico, Tierra Colorada in Guerrero 2000 feet, Medellin near Vera Cruz (H. H. Smith)". 1 ♂, 2 ♀♀. Now in *Cyrtoneurina* (Pont, 1972: 53) (Muscidae).
468. *Clinopera pterostigma*, p. 309. "Mexico, Teapa and Frontera in Tabasco (H. H. Smith)". 1 ♂, 1 ♀. Now a junior synonym of *Cyrtoneurina rescita* (Walker, 1861) (Pont, 1972: 53) (Muscidae).
469. *Clinoptera monstrata*, p. 309. "Mexico, Xucumanatlan in Guerrero 7000 feet (H. H. Smith)". 1 ♀. Now in *Cyrtoneurina* (Pont, 1972: 53) (Muscidae).
470. *Hyetodesia rubella*, p. 314, pl. 8, figs. 1, 1 a. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♀. Now in *Polietina* (Pont, 1972: 55) (Muscidae).
471. *Hyetodesia longiseta*, p. 315. "Mexico, Sierra de las Aguas Escondidas in Guerrero 9500 feet (H. H. Smith)". 1 ♂. Now in *Mydaea* (Pont, 1972: 25) (Muscidae).
472. *Mydaea obscura*, p. 317, pl. 8, figs. 3, 3 a. "Mexico, Northern Yucatan (Gaumer)". 4 ♂♂. Now in *Neomusca* (Pont, 1972: 56) (Muscidae).

473. *Mydaea concinna*, p. 317. "Mexico, Xucumanatlan in Guerrero 7000 feet (H. H. Smith)". 1 ♂, 3 ♀♀. Now a junior synonym of *Polietina pruinosa* (Macquart, 1846) (Pont, 1972: 55) (Muscidae).
474. *Mydaea fasciventris*, p. 318. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Now in *Neomusca* (Pont, 1972: 56) (Muscidae).
475. *Mydaea leucocephala*, p. 318. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Now in *Helina* (Pont, 1972: 21) (Muscidae).
476. *Mydaea confinis*, p. 319. "Mexico, Orizaba (F. D. Godman)". 1 ♀. Now in *Helina* (Pont, 1972: 20) (Muscidae).
477. *Spilogaster rubripalpis*, p. 320. "Mexico, Dos Arroyos, Tepetlapa and Sierra de las Aguas Escondidas, all in Guerrero, Cuernavaca in Morelos (H. H. Smith); Costa Rica, Caché (Rogers)". Several ♀♀ specimens. Now in *Helina* (Pont, 1972: 22) (Muscidae).
478. *Spilogaster copiosa*, p. 321, pl. 8, figs. 5, 5 a. "Mexico, Xucumanatlan, Omilteme and Sierra de las Aguas Escondidas, all in Guerrero, 7000-9500 feet (H. H. Smith)". Many specimens of both sexes. Now in *Helina* (Pont, 1972: 20) (Muscidae).
479. *Spilogaster parvula*, p. 321. "Mexico, Tepetlapa, Amula and Omilteme all in Guerrero, 3000-8000 feet (H. H. Smith)". Several specimens of both sexes. Now in *Helina* (Pont, 1972: 22) (Muscidae).
480. *Spilogaster signatipennis*, p. 322, pl. 8, figs. 6, 6 a. "Mexico, Chilpancingo, Xucumanatlan, Omilteme and Sierra de las Aguas Escondidas, all in Guerrero 4600-9500 feet (H. H. Smith), Orizaba (H. H. Smith and F. D. Godman)". Several specimens of both sexes. Now in *Helina* (Pont, 1972: 23) (Muscidae).
481. *Spilogaster discreta*, p. 322. "Mexico, Amula 6000 feet, Xucumanatlan 7000 feet, both in Guerrero (H. H. Smith)". 2 ♂♂. Now in *Helina* (Pont, 1972: 20) (Muscidae).
482. *Limnophora fumipennis*, p. 324, pl. 8, fig. 7. "Mexico, Sierra de las Aguas Escondidas in Guerrero 9500 feet (H. H. Smith)". 1 ♂. Now in *Mydaea* (Pont, 1972: 25) (Muscidae).
483. *Limnophora meraca*, p. 325. "Mexico, Omilteme in Guerrero (H. H. Smith)". 1 ♂. Now in *Helina* (Pont, 1972: 21) (Muscidae).
484. *Limnophora delecta*, p. 325. "Mexico, Amula 6000 feet and Rincon 2800 feet, both in Guerrero (H. H. Smith)". 1 ♂, 1 ♀. Now in *Gymnodia* (Pont, 1972: 24) (Muscidae).
485. *Limnophora socia*, p. 326. "Mexico, Omilteme 8000 feet and Sierra de las Aguas Escondidas 9500 feet, both in Guerrero (H. H. Smith)". 5 ♀♀. Now in *Helina* (Pont, 1972: 23) (Muscidae).
486. *Leucomelia deleta*, p. 329. "Mexico, Xucumanatlan 7000 feet, Omilteme 8000 feet, and Sierra de las Aguas Escondidas 9500 feet, all in Guerrero (H. H. Smith)". 7 ♂♂. Now in *Syllimnophora* (Pont, 1972: 30) (Muscidae).
487. *Leucomelina minuscula*, p. 330. "Mexico, Atoyac in Vera Cruz and Xucumanatlan in Guerrero (H. H. Smith)". 2 ♂♂, 7 ♀♀. Now in *Limnophora* (Pont, 1972: 29) (Muscidae).
488. *Hydrophoria plumosa*, p. 332. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 1 ♂. Unchanged (Pont, 1974: 6) (Anthomyiidae).
489. *Hydrophoria collaris*, p. 333. "Mexico, Amula, Xucumanatlan, Sierra de las Aguas Escondidas, and Omilteme, all in Guerrero 6000-8000 feet (H. H. Smith)". Several specimens of both sexes. Now in *Taeniomyia* (Pont, 1974: 9) (Anthomyiidae).
490. *Hydrophoria flavipalpis*, p. 334. "Mexico, Venta de Zopilote 2800 feet, Chilpancingo 4600 feet, Amula 6000 feet, and Sierra de las Aguas Escondidas 7000 feet, all in

- Guerrero (H. H. Smith)". 7 ♂♂, 2 ♀♀. Now in *Emmesiomyia* (Pont, 1974: 4) (Anthomyiidae).
491. *Hydrophoria transversalis*, p. 334, pl. 8, fig. 12. "Mexico, Xucumanatlan, Omilteme and Sierra de las Aguas Escondidas, all in Guerrero, 7000-9500 feet (H. H. Smith)". Several specimens of both sexes. A junior synonym of *Taeniomyia pictipes* (Bigot, 1885) (Pont, 1974: 9) (Anthomyiidae).
492. *Pogonomyia aterrима*, p. 335, pl. 8, figs. 13, 13 a. "Mexico, Ciudad in Durango 8100 feet (Forrer)". 3 ♂♂, 3 ♀♀. Unchanged (Pont, 1972: 12) (Muscidae).
493. *Anthomyia elongata*, p. 335, pl. 8, figs. 14, 14 a. "Mexico, Sierra de las Aguas Escondidas in Guerrero 9500 feet (H. H. Smith)". 2 ♂♂. Now in *Pegomyia* (Pont, 1974: 8) (Anthomyiidae).
494. *Anthomyia dorsimaculata*, p. 336. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 5 ♂♂. Now in *Pegomyia* (Pont, 1974: 8) (Anthomyiidae).
495. *Anthomyia segmentata*, p. 336. "Mexico, Omilteme 8000 feet and Sierra de las Aguas Escondidas 9500 feet, both in Guerrero (H. H. Smith)". 3 ♂♂. Now in *Delia* (Pont, 1974: 4) (Anthomyiidae).
496. *Hylemyia tenuirostris*, p. 337, pl. 8, figs. 15, 15 a. "Mexico, Tepetlapa 3000 feet and Amula 6000 feet, both in Guerrero (H. H. Smith)". 2 ♂♂. Now in *Neohylemyia* (Pont, 1974: 7) (Anthomyiidae).
497. *Hylemyia urbica*, p. 338. "Mexico, Mexico City (H. H. Smith)". 1 ♂. Unchanged (Pont, 1974: 6) (Anthomyiidae).
498. *Hylemyia monticola*, p. 338. "Mexico, Sierra de las Aguas Escondidas in Guerrero 7000 feet (H. H. Smith)". 1 ♂. Now in *Pegoplata* (Pont, 1974: 9) (Anthomyiidae).
499. *Phorbia morosa*, p. 339. "Mexico, Mexico City (H. H. Smith)". 1 ♂. Now in *Fannia* (Pont, 1972: 5) (Muscidae).
500. *Phorbia fuscisquama*, p. 340. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 5 ♂♂. Now in *Phaonia* (Pont, 1972: 14) (Muscidae).
501. *Phorbia prisca*, p. 340. "Mexico, Ciudad in Durango 8100 feet (Forrer), Patzcuaro (F. D. Godman), Jalisco (Schumann)". 3 ♂♂, 4 ♀♀. Now in *Delia* (Pont, 1974: 4) (Anthomyiidae).
502. *Charadrella macrosoma*, p. 341, pl. 8, figs. 16, 16 a-b. "Mexico, Northern Yucatan (Gaumer)". A very large series of specimens of both sexes. Unchanged (Pont, 1972: 57) (Muscidae).
503. *Lispe serotina*, p. 342. "Mexico, Atoyac and Medellin in Vera Cruz, Teapa in Tabasco, Mexico City (H. H. Smith)". 1 ♂, 2 ♀♀. Unchanged (Pont, 1972: 34) (Muscidae).
504. *Coenosia punctulata*, p. 343. "Mexico, Patzcuaro (F. D. Godman), Xucumanatlan 7000 feet, and Omilteme 8000 feet, both in Guerrero (H. H. Smith)". 2 ♂♂, several ♀♀. Now in *Neodexiopsis* (Pont, 1972: 47) (Muscidae).
505. *Coenosia tenuicornis*, p. 343. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♀. Now in *Neodexiopsis* (Pont, 1972: 47) (Muscidae).
506. *Coenosia oscillans*, p. 344. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 1 ♀. Now in *Neodexiopsis* (Pont, 1972: 47) (Muscidae).
507. *Coenosia macrocera*, p. 344, pl. 8, figs. 17, 17 a. "Mexico, Omilteme 8000 feet and Sierra de las Aguas Escondidas 9500 feet, both in Guerrero (H. H. Smith)". 3 ♂♂, 5 ♀♀. Now in *Neodexiopsis* (Pont, 1972: 46) (Muscidae).

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508. *Coenosia femoralis*, p. 345. "Mexico, Orizaba (F. D. Godman and H. H. Smith), Chilpancingo in Guerrero 4600 feet, Mexico City and Vera Cruz (H. H. Smith)". 1 ♂, 6 ♀♀. Now a junior synonym of *Bithoracochaeta leucoprocta* (Wiedemann, 1830) (Pont, 1972: 37) (Muscidae).
509. *Coenosia bistrata*, p. 345. "Mexico, Orizaba (H. H. Smith and F. D. Godman), Teapa in Tabasco (H. H. Smith)". 1 ♂, 4 ♀♀. Now a junior synonym of *Cordiluroides insularis* (Williston, 1896) (Pont, 1972: 44) (Muscidae).
510. *Schoenomyza pulicaria*, p. 346, pl. 8, fig. 18. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♂. Now *Coenosia wulpi* Pont (Pont, 1972: 44) (Muscidae).
511. *Cordylura brevicornis*, p. 349, pl. 9, fig. 1. "Mexico, Xucumanatlan in Guerrero 7000 feet (H. H. Smith)". 1 ♂. Not in Albuquerque's 1984 catalogue (Scatophagidae).
512. *Cordylura rufina*, p. 349, pl. 9, figs. 2, 2 a. "Mexico, Ciudad in Durango (Forrer), Omilteme 8000 feet, and Sierra de las Aguas Escondidas 9500 feet, both in Guerrero (H. H. Smith)". Several ♂♂ specimens. Not in Albuquerque's 1984 catalogue (Scatophagidae).
513. *Cordylura vicina*, p. 350. "Mexico, Omilteme and Sierra de las Aguas Escondidas in Guerrero (H. H. Smith)". Several specimens, including 3 ♀♀. Not in Albuquerque's 1984 catalogue (Scatophagidae).
514. *Scatophaga vittata*, p. 350. "Mexico, Mexico City (H. H. Smith)". 1 ♂, 1 ♀. Not in Albuquerque's 1984 catalogue (Scatophagidae).
515. *Helomyza punctulata*, p. 352, pl. 9, fig. 4. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". Several specimens of both sexes. Now in *Suillia* (Gill, 1968: 7) (Heleomyzidae).
516. *Helomyza distigma*, p. 352, pl. 9, fig. 5. "Mexico, Amula 6000 feet, Xucumanatlan 7000 feet, Sierra de las Aguas Escondidas 9500 feet, all in Guerrero (H. H. Smith)". 1 ♂, 2 ♀♀. Now in *Suillia* (Gill, 1968: 7) (Heleomyzidae).
517. *Helomyza polystigma*, p. 353, pl. 9, fig. 6. "Mexico, Sierra de las Aguas Escondidas in Guerrero 9500 feet (H. H. Smith)". 2 ♀♀. Now in *Suillia* (Gill, 1968: 7) (Heleomyzidae).
518. *Sciomyza infuscata*, p. 355, pl. 9, figs. 7, 7 a. "Mexico, Sierra de las Aguas Escondidas in Guerrero 7000 feet (H. H. Smith)". 1 ♀. A Lauxaniidae of the genus *Pseudogriphoneura* (Knutson *et al.*, 1976: 14) (Lauxaniidae).
519. *Sciomyza strigata*, p. 355, pl. 9, fig. 9. "Mexico, Vera Cruz and Mexico City (H. H. Smith)". 1 ♂, 2 ♀♀. Now a junior synonym of *Pherbellia trabeculata* (Loew, 1872) (Knutson *et al.*, 1976: 5) (Sciomyzidae).
520. *Sciomyza squalens*, p. 356, pl. 9, fig. 10. "Mexico, Mexico City (H. H. Smith)". 7 ♂♂, 3 ♀♀. A junior synonym of *Atrichomelina pubera* (Loew, 1862) (Knutson *et al.*, 1976: 3) (Sciomyzidae).
521. *Sciomyza serena*, p. 356. "Mexico, Vera Cruz and Mexico City (H. H. Smith)". 2 ♂♂, 1 ♀. Now a junior synonym of *Pherbellia parallela* (Walker, 1852) (Knutson *et al.*, 1976: 4) (Sciomyzidae).
522. *Tetanocera straminata*, p. 357, pl. 9, figs. 11, 11 a. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 3 ♂♂, 1 ♀. Now in *Guatemalaia* (Knutson *et al.*, 1976: 8) (Sciomyzidae).

523. *Tetanocera acuticornis*, p. 358, pl. 9, fig. 13. "Mexico, Northern Sonora (Morrison)". Several ♂♂. Now in *Hoplodictya* but not Neotropical (see (Knutson *et al.*, 1976: 8) (Sciomyzidae).
524. *Tetanocera spreta*, p. 358. "Mexico, Jalisco (Schumann), Mexico City (H. H. Smith)". 3 ♂♂, 2 ♀♀. Unchanged (Knutson *et al.*, 1976: 12) (Sciomyzidae).
525. *Tetanocera plumifera*, p. 359. "Mexico, Ciudad in Durango 8100 feet (Forrer)". 1 ♂. A junior synonym of *Tetanocera plumosa* Loew, 1847 (Knutson *et al.*, 1976: 12) (Sciomyzidae).
526. *Sepedon relictus*, p. 359. "Mexico, Mexico City (H. H. Smith)". 1 ♂. Unchanged but *S. relictus* (Knutson *et al.*, 1976: 10) (Sciomyzidae).
527. *Sepedon nigriventris*, p. 359. "Mexico, Vera Cruz (H. H. Smith)". 2 ♀♀. A junior synonym of *Sepedomerus macropus* (Walker, 1849) (Knutson *et al.*, 1976: 10) (Sciomyzidae).
528. *Sepedon nubilipennis*, p. 360, pl. 9, figs. 14, 14 a. "Mexico, Presidio de Mazatlan (Forrer), Atoyac in Vera Cruz (H. H. Smith)". 1 ♂, 1 ♀. Now in *Protodictya* (Knutson *et al.*, 1976: 9) (Sciomyzidae).
529. *Psila exigua*, p. 361. "Mexico, Xucumanatlan in Guerrero 7000 feet (H. H. Smith)". 1 ♂. Unchanged (Prado, 1975: 1) (Psilidae).
530. *Chyliza varipes*, p. 361. "Mexico, Venta de Zopilote 2800 feet, Chilpancingo 4600 feet, Amula 6000 feet, all in Guerrero, and Teapa in Tabasco (H. H. Smith)". 2 ♂♂, 4 ♀♀. Unchanged (Prado, 1975: 2) (Psilidae).
531. *Tanypeza rutila*, p. 362, pl. 9, fig. 15. "Mexico, Sierra de las Aguas Escondidas 7000 feet and Omilteme 8000 feet, both in Guerrero (H. H. Smith)". 1 ♂, 2 ♀♀. Now in *Neotanypeza (Tritanypeza)* (Steyskal, 1967: 2) (Tanypezidae).
532. *Micropeza occipitalis*, p. 365. "Mexico, Sierra de las Aguas Escondidas in Guerrero 7000 feet (H. H. Smith)". 1 ♀. Now a junior synonym of *Micropeza pectoralis* (Wiedemann, 1830) (Steyskal, 1968 a: 4) (Micropezidae).
533. *Micropeza ruficeps*, p. 365. "Mexico, Northern Sonora (Morrison)". 1 ♀. Unchanged (Steyskal, 1968 a: 4) (Micropezidae).
534. *Micropeza nigricornis*, p. 366. "Mexico, Chilpancingo in Guerrero 4000 feet (H. H. Smith)". 2 ♂♂, 1 ♀. Unchanged (Steyskal, 1968 a: 3) (Micropezidae).
535. *Micropeza bilineata*, p. 366. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 3 ♀♀. Unchanged (Steyskal, 1968 a: 2) (Micropezidae).
536. *Micropeza stigmatica*, p. 366, pl. 9, fig. 17, 17 a. "Mexico, Northern Sonora (Morrison), San Blas in Jalisco, Atoyac in Vera Cruz (Schumann), San Lorenzo, Cordova (M. Trujillo), Medellin in Vera Cruz and Dos Arroyos in Guerrero (H. H. Smith)". Several specimens of both sexes. Unchanged (Steyskal, 1968 a: 4) (Micropezidae).
537. *Calobata rubella*, p. 368, pl. 9, fig. 18. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 3 ♀♀. Now in *Rainieria (Globomyia)* (Steyskal, 1968 a: 14) (Micropezidae).
538. *Calobata russula*, p. 370, pl. 9, fig. 22. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 6 specimens of both sexes. Now in *Grallipeza* (Steyskal, 1968 a: 8) (Micropezidae).
539. *Calobata bracteata*, p. 371, pl. 9, fig. 23. "Mexico, Vera Cruz (H. H. Smith)". 3 ♀♀. Now a junior synonym of *Rainieria (Rainieriella) calosoma* (Bigot, 1886) (Steyskal, 1968 a: 15) (Micropezidae).

540. *Calobata grata*, p. 371, pl. 9, fig. 24. "Mexico, Acapulco, Dos Arroyos, and Venta de Zopilote all in Guerrero (H. H. Smith), Northern Yucatan (Gaumer)". 3 ♂♂, 1 ♀. Now in *Taeniptera* (Steyskal, 1968 a: 17) (Micropezidae).
541. *Calobata lunulata*, p. 372, pl. 9, fig. 26. "Mexico, Presidio de Mazatlan (Forrer), Medellin near Vera Cruz, Frontera and Teapa in Tabasco (H. H. Smith), North Yucatan (Gaumer)". Several specimens of both sexes. Now a junior synonym of *Taeniptera lasciva* (Fabricius, 1798) (Steyskal, 1968 a: 18) (Micropezidae).
542. *Calobata munda*, p. 374, pl. 9, fig. 29. "Mexico, Dos Arroyos in Guerrero 1000 feet (H. H. Smith)". 1 ♂. Now in *Taeniptera* (Steyskal, 1968 a: 18) (Micropezidae).
543. *Calobata stellata*, p. 375. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Now *Poecilotylus (Poecilotylus) stellatus* (Wulp) (Steyskal, 1968 a: 12) (Micropezidae).

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544. *Stenopterina alligata*, p. 381, pl. 10, fig. 7. "Mexico, Paso del Macho (Höge)". 2 ♀♀. Now in *Senopterina* (Steyskal, 1968 d: 2) (Platystomatidae).
545. *Rivellia occulta*, p. 382, pl. 10, fig. 8. "Mexico, Chilpancingo 4600 feet, Omilteme 8000 feet, both in Guerrero (H. H. Smith)". 6 ♂♂, 1 ♀. Unchanged (Steyskal, 1968 d: 2) (Platystomatidae).
546. *Rivellia submetallica*, p. 382, pl. 10, fig. 10. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♂. Unchanged (Steyskal, 1968 d: 2) (Platystomatidae).
547. *Rivellia connecta*, p. 383, pl. 10, fig. 12. "Mexico, Chilpancingo in Guerrero 4600 feet (H. H. Smith)". 1 ♂. Unchanged (Steyskal, 1968 d: 1) (Platystomatidae).
548. *Rivellia flexuosa*, p. 383, pl. 10, fig. 13. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♂. Unchanged (Steyskal, 1968 d: 2) (Platystomatidae).
549. *Rivellia pilosula*, p. 384, pl. 10, fig. 14. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Unchanged (Steyskal, 1968 d: 2) (Platystomatidae).
550. *Rivellia longicornis*, p. 384, pl. 10, fig. 15. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♂, 1 ♀. Unchanged (Steyskal, 1968 d: 2) (Platystomatidae).

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551. *Richardia viridiventris*, p. 386. "Mexico, Teapa in Tabasco (H. H. Smith)". Several ♂♂ and 2 ♀♀. Unchanged (Steyskal, 1968 b: 10) (Richardiidae).
552. *Richardia elegans*, p. 386, pl. 10, fig. 17. "Mexico, Teapa in Tabasco (H. H. Smith)". Several specimens of both sexes. Unchanged (Steyskal, 1968 b: 9) (Richardiidae).
553. *Richardia concinna*, p. 387, pl. 10, fig. 18. "Mexico, Santiago Iscuintla (Schumann), Acaguizotla in Guerrero 3500 feet (H. H. Smith)". 1 ♂, 1 ♀. Unchanged (Steyskal, 1968 b: 9) (Richardiidae).
554. *Paneryma elongata*, p. 388, pl. 10, fig. 19. "Mexico, Teapa in Tabasco, (H. H. Smith)". 3 ♂♂, 1 ♀. Unchanged (Steyskal, 1968 b: 8) (Richardiidae).
555. *Cyrtometopa cinctella*, p. 389, pl. 10, figs. 20, 20 a. "Mexico, San Lorenzo near Cordova (M. Trujillo), Teapa in Tabasco (H. H. Smith)". Several specimens of both sexes. Now a junior synonym of *Odontomera nitens* (Schiner, 1868) (Steyskal, 1968 b: 7) (Richardiidae).
556. *Amphicnephes stellatus*, p. 390, pl. 10, fig. 23. "Mexico, Chilpancingo in Guerrero 4600 feet (H. H. Smith), Northern Yucatan (Gaumer)". 2 ♂♂, 2 ♀♀. Unchanged (Steyskal, 1968 d: 1) (Platystomatidae).

557. *Tetanops vittifrons*, p. 391, pl. 10, figs. 24, 24 a. "Mexico, Jalisco (Schumann), Chilpancingo and Amula in Guerrero, Cuernavaca in Morelos (H. H. Smith)". 4 ♂♂, 3 ♀♀. Unchanged (Steyskal, 1968 c: 12) (Otitidae).
558. *Tetanops rufifrons*, p. 391, pl. 10, fig. 25. "Mexico, Presidio de Mazatlan (Forrer), Chilpancingo in Guerrero 4600 feet (H. H. Smith)". Several ♀♀. Unchanged (Steyskal, 1968 c: 12) (Otitidae).
559. *Xanthacrona bipustulata*, p. 393, pl. 10, figs. 29, 29 a. "Mexico, Presidio de Mazatlan (Forrer)". 1 ♀. Unchanged (Steyskal, 1968 c: 12) (Otitidae).
560. *Pterocalla fenestrata*, p. 394, pl. 10, fig. 30. "Mexico, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". 2 ♂♂, 2 ♀♀. Now in *Pseudopteroalla* (Steyskal, 1968 c: 7) (Otitidae).
561. *Pterocalla quadrata*, p. 394, pl. 11, fig. 1. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Unchanged (Steyskal, 1968 c: 8) (Otitidae).
562. *Pterocalla costalis*, p. 396, pl. 11, figs. 5, 6. "Mexico, Chilpancingo and Amula, both in Guerrero (H. H. Smith)". 1 ♂, 1 ♀. Unchanged (Steyskal, 1968 c: 8) (Otitidae).
563. *Euxesta laticeps*, p. 397, pl. 11, figs. 7, 7 a-b. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Now a junior synonym of *Euxesta spoliata* Loew, 1868 (Steyskal, 1968 c: 19) (Otitidae).
564. *Euxesta nigricans*, p. 397, pl. 11, fig. 8. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 1 ♂. Unchanged (Steyskal, 1968 c: 18) (Otitidae).
565. *Euxesta latifasciata*, p. 397, pl. 11, fig. 9. "Mexico, Cuernavaca in Morelos (H. H. Smith)". 2 ♂♂, 1 ?♀. Unchanged (Steyskal, 1968 c: 18) (Otitidae).
566. *Euxesta fascipennis*, p. 398, pl. 11, fig. 10. "Mexico, Orizaba (H. H. Smith and F. D. Godman), Tepetlapa in Guerrero 3000 feet, Medellin near Vera Cruz, Teapa in Tabasco (H. H. Smith)". 7 ♂♂, 3 ♀♀. Now a junior synonym of *Euxesta leucomelas* (Walker, 1860) (Steyskal, 1968 c: 18) (Otitidae).
567. *Euxesta major*, p. 398, pl. 11, fig. 11. "Mexico, Orizaba (H. H. Smith and F. D. Godman)". 1 ♂. Now in *Chaetopsis* (Steyskal, 1968 c: 14) (Otitidae).
568. *Euxesta conserta*, p. 399, pl. 11, fig. 14. "Mexico, Atoyac in Vera Cruz". 3 ♂♂. Unchanged (Steyskal, 1968 c: 17) (Otitidae).
569. *Hexachaeta pulchella*, p. 403, pl. 11, fig. 18. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♀. Now in *Blepharoneura* (Foote, 1967: 18) (Tephritidae).
570. *Hexachaeta rupta*, p. 404, pl. 11, fig. 19. "Mexico, Teapa in Tabasco (H. H. Smith)". 3 ♀♀. Now in *Blepharoneura* (Foote, 1967: 18) (Tephritidae).
571. *Anastrepha tripunctata*, p. 405, pl. 11, fig. 22. "Mexico, Venta de Zopilote in Guerrero 2800 feet (H. H. Smith)". 1 ♂, 1 ♀. Unchanged (Foote, 1967: 17) (Tephritidae).
572. *Spilograpa striata*, p. 406, pl. 11, fig. 24. "Mexico, Sierra de las Aguas Escondidas in Guerrero 9500 feet (H. H. Smith)". 1 ♀. Now in *Trypeta* (Foote, 1967: 54) (Tephritidae).
573. *Spilograpa obfusca*, p. 406, pl. 11, fig. 25. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♂. Now a junior synonym of *Rhagoletoides latifrons* (Wulp, 1899) (Foote, 1967: 41) (Tephritidae).
574. *Spilograpa latifrons*, p. 407, pl. 11, fig. 26. "Mexico, Ciudad in Durango 8100 feet (Forrer)". 1 ♂. Now in *Rhagoletoides* (Foote, 1967: 41) (Tephritidae).

575. *Spilographa rufata*, p. 407, pl. 11, fig. 27. "Mexico, Sierra de las Aguas Escondidas 7000 feet, Omilteme 8000 feet, both in Guerrero (H. H. Smith)". Several specimens of both sexes. Now in *Trypeta* (Foote, 1967: 53) (Tephritidae).
576. *Spilographa concolor*, p. 408, pl. 11, fig. 28. "Mexico, Mexico City (H. H. Smith)". 1 ♂, 2 ♀♀. Now in *Trypeta* (Foote, 1967: 53) (Tephritidae).
577. *Rhagoletis striatella*, p. 408, pl. 11, fig. 30. "Mexico, Amula in Guerrero 6000 feet (H. H. Smith)". 1 ♀. Unchanged (Foote, 1967: 41) (Tephritidae).
578. *Polinota radians*, p. 410, pl. 12, figs. 2, 2 a. "Mexico Sierra de las Aguas Escondidas 9500 feet (H. H. Smith)". 1 ♂, 2 ♀♀. Unchanged (Foote, 1967: 36) (Tephritidae).
579. *Polymorphomyia pilosula*, p. 411, pl. 12, fig. 4. "Mexico, Atoyac in Vera Cruz, Teapa in Tabasco (H. H. Smith)". 1 ♂, 1 ♀. Unchanged (Foote, 1967: 36) (Tephritidae).
580. *Blepharoneura fulvicollis*, p. 411, pl. 12, fig. 5. "Mexico, Tepetlapa 3000 feet, Chilpancingo 4600 feet, Xucumanatlan 7000 feet, all in Guerrero, Vera Cruz, and Teapa in Tabasco (H. H. Smith)". Several specimens of both sexes. Now a junior synonym of *Blepharoneura poecilosoma* (Schiner, 1868) (Foote, 1967: 18) (Tephritidae).
581. *Blepharoneura femoralis*, p. 412, pl. 12, fig. 6. "Mexico, Sierra de las Aguas Escondidas and Omilteme, both in Guerrero 7000 to 8000 feet (H. H. Smith)". Several specimens of both sexes. Unchanged (Foote, 1967: 18) (Tephritidae).
582. *Blepharoneura quadristriata*, p. 413, pl. 12, fig. 7. "Mexico, Teapa in Tabasco (H. H. Smith)". 1 ♂ (with the antennae broken off). Now a junior synonym of *Blepharoneura poecilosoma* (Schiner, 1868) (Foote, 1967: 18) (Tephritidae).
583. *Blepharoneura biseriata*, p. 413, pl. 12, fig. 8. "Mexico, Sierra de las Aguas Escondidas in Guerrero 7000 feet (H. H. Smith)". 1 ♀. Unchanged (Foote, 1967: 18) (Tephritidae).
584. *Eutreta patagiata*, p. 414, pl. 12, fig. 10. "Mexico, Omilteme and Sierra de las Aguas Escondidas, both in Guerrero 8000 to 9500 feet (H. H. Smith)". 2 ♂♂, 2 ♀♀. Unchanged (Foote, 1967: 25) (Tephritidae).
585. *Acrotaenia tarsata*, p. 414, pl. 12, figs. 11, 11 a. "Mexico, Amula in Guerrero (H. H. Smith)". 1 ♂. Unchanged (Foote, 1967: 6) (Tephritidae).
586. *Acrotaenia apiata*, p. 415, pl. 12, fig. 12. "Mexico, Chilpancingo 4600 feet and Amula 6000 feet both in Guerrero (H. H. Smith)". 1 ♂, 1 ♀. Now in *Pseudacrotaenia* (Foote, 1967: 37) (Tephritidae).
587. *Acrotaenia incisa*, p. 415, pl. 12, fig. 13. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". Several specimens, including both sexes. Now in *Pseudacrotaenia* (Foote, 1967: 37) (Tephritidae).
588. *Baryplegma gilva*, p. 416, pl. 12, fig. 14. "Mexico, Santiago Iscuintla in Jalisco (Schumann)". 1 ♀. Unchanged (Foote, 1967: 17) (Tephritidae).
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589. *Ensina luculenta*, p. 417, pl. 12, fig. 17. "Mexico, Omilteme in Guerrero 8000 feet (H. H. Smith)". 1 ♀. Now in *Paroxyna* (Foote, 1967: 35) (Tephritidae).
590. *Ensina conspersa*, p. 417, pl. 12, fig. 18. "Mexico, Chilpancingo in Guerrero 4600 feet (H. H. Smith)". 1 ♂. Now in *Paroxyna* (Foote, 1967: 34) (Tephritidae).
591. *Ensina despecta*, p. 418, pl. 12, fig. 19. "Mexico, Xucumanatlan in Guerrero 7000 feet (H. H. Smith)". 1 ♀. Now in *Paroxyna* (Foote, 1967: 34) (Tephritidae).

592. *Ensina mediana*, p. 418, pl. 12, fig. 20. "Mexico, Chilpancingo in Guerrero 4600 feet (H. H. Smith)". 1 ♂. Now a junior synonym of *Paroxyna conspersa* (Wulp, 1900) (Foote, 1967: 34) (Tephritidae).
593. *Ensina guttularis*, p. 418, pl. 12, fig. 21. "Mexico, Chilpancingo 4600 feet and Xucumanatlan 7000 feet, both in Guerrero (H. H. Smith)". 3 ♀♀. Now in *Paroxyna* (Foote, 1967: 35) (Tephritidae).
594. *Tephritis staminea*, p. 419, pl. 12, fig. 23. "Mexico, Orizaba (H. H. Smith and F. D. Godman)". 1 ♂. Now in *Neotephritis* (Foote, 1967: 32) (Tephritidae).
595. *Tephritis subradiata*, p. 420, pl. 12, fig. 24. "Mexico, Chilpancingo in Guerrero 4600 feet (H. H. Smith)". 1 ♂. Unchanged (Foote, 1967: 43) (Tephritidae).
596. *Tephritis cancellata*, p. 420, pl. 12, fig. 25. "Mexico, Amula, Xucumanatlan and Omilteme 6000 to 8000 feet, all in Guerrero (H. H. Smith)". 2 ♂♂, 2 ♀♀. Now in *Neotephritis* (Foote, 1967: 32) (Tephritidae).
597. *Tephritis fibulata*, p. 421, pl. 12, fig. 26. "Mexico, Orizaba (H. H. Smith and F. D. Godman)". 4 specimens of both sexes. Now in *Paroxyna* (Foote, 1967: 34) (Tephritidae).
598. *Tephritis obsoleta*, p. 421, pl. 12, fig. 27. "Mexico, Orizaba (H. H. Smith and F. D. Godman)". 1 ♀. Now in *Paroxyna* (Foote, 1967: 35) (Tephritidae).
599. *Tephritis semifusca*, p. 422, pl. 12, fig. 28. "Mexico, Ciudad in Durango (Forrer)". 2 ♂♂. Now in *Paroxyna* (Foote, 1967: 35) (Tephritidae).
600. *Tephritis intricata*, p. 422, pl. 12, fig. 29. "Mexico, Ciudad in Durango (Forrer)". 3 ♀♀. Now a junior synonym of *Paroxyna semifusca* (Wulp, 1900) (Foote, 1967: 35) (Tephritidae).
601. *Euaesta crenulata*, p. 423. "Mexico, Cuernavaca, Chilpancingo (H. H. Smith)". 5 ♂♂. Now in *Tetreaesta* (Foote, 1967: 44) (Tephritidae).
602. *Euaesta rufula*, p. 424. "Mexico, Atoyac in Vera Cruz (H. H. Smith)". 1 ♂, 1 ♀. Now in *Neotephritis* (Foote, 1967: 32) (Tephritidae).
603. *Euaesta angustipennis*, p. 425. "Mexico, Mexico City (H. H. Smith)". 4 ♂♂, 1 ♀. Now in *Tetreaesta* (Foote, 1967: 43) (Tephritidae).
604. *Euaesta scitula*, p. 425. "Mexico, Northern Sonora (Morrison)". 1 ♀. Now in *Tetreaesta* (Foote, 1967: 44) (Tephritidae).
605. *Euaesta sobrinata*, p. 425. "Mexico, Xucumanatlan in Guerrero (H. H. Smith)". 1 ♀. Now in *Dyseaesta* (Foote, 1967: 23) (Tephritidae).
606. *Urellia eugenia*, p. 427. "Mexico, Chilpancingo 4600 feet and Amula 6000 feet, both in Guerrero (H. H. Smith)". 1 ♂, 2 ♀♀. Now in *Euaestoides* (Foote, 1967: 24) (Tephritidae).
607. *Urellia vicina*, p. 427. "Mexico, Orizaba (H. H. Smith and F. D. Godman)". 2 ♀♀. Now in *Trupanea* (Foote, 1967: 52) (Tephritidae).
- 1903:
608. *Olfersia coriacea*, p. 430, pl. 13, figs. 2, 2 a. "Mexico, Presidio (Forrer), Guatemala, Mirandilla (Champion)". 2 specimens. One specimen unchanged (Guimarães, 1968: 8), the second specimen corresponds to *Lynchia albipennis* (Say, 1823) (Hippoboscidae).
609. *Olfersia angustifrons*, p. 430, pl. 13, figs. 3, 3 a. "Mexico, Teapa in Tabasco (H. H. Smith), Costa Rica, Rio Sucio (Rogers)". 1 ♀, 1 ♀. Now in *Lynchia* (Guimarães, 1968: 5) (Hippoboscidae).

610. *Ornithomyia robusta*, p. 431, pl. 13, fig. 5, 5 a-c. "Mexico, Jalapa (Godman), Guatemala Zapote (Champion), Costa Rica, Caché (Rogers), Panama, Volcan de Chiriqui (Champion)". 1 ♂, 4 ♀♀. Now a junior synonym of *Ornithoctona erythrocephala* (Leach, 1817) (Guimarães, 1968: 3) (Hippoboscidae).

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Recibido: 18 de mayo 2002
Aceptado: 23 de agosto 2002