

Collection Records of the Project "Mosquitoes of Middle America"

13. South America: Brazil (BRA, BRAP, BRB), Ecuador (ECU), Peru (PER), Chile (CH)¹Sandra J. Heinemann² and John N. Belkin³

For general information and collections from the Dominican Republic (RDO) the first publication of this series should be consulted (Belkin and Heinemann 1973). Any departure from the method in this publication is indicated below. Publications 2-6 of the series (Belkin and Heinemann 1975a, 1975b, 1976a, 1976b, 1976c) recorded data on collections from the remainder of the West Indies except Jamaica (Belkin, Heinemann and Page 1970:255-304) and Trinidad and Tobago (to be covered later). Publications 7-10 (Heinemann and Belkin 1977a, 1977b, 1977c, 1978a) covered the collections from Mexico and Central America. Publications 11 and 12 (Heinemann and Belkin 1978b, 1978c) covered the northern part of South America (Colombia, Venezuela and the Guianas). The present publication covers most of the rest of South America.

The collections in Brazil, Ecuador, Peru and Chile could not have been made without the interest and assistance of cooperators of the project. We are greatly indebted to these individuals and their organizations for the facilities, transportation and assistance, as well as the donation of collections to the project. We are indebted to professional collector extraordinary Luis E. Pena G. of Santiago, Chile, for the valuable collections in Ecuador and Chile. Also, we thank all the members of the project who participated in these collections, as well as the numerous individuals listed as collectors under each country who contributed to the collecting and rearing for the project.

In Brazil we are indebted to Manoel da Frota Moreira of Conselho Nacional de Pesquisas for expediting for us the award of the Autorizacao Para Expedicao Cientifica without which we could not collect in Brazil; Paulo Emilio Vanzolini and Nelson Papavero of Museu de Zoologia da Universidade de Sao Paulo for sponsoring our "expedition" and for providing facilities and transportation at Boraceia Field Station and elsewhere in the state of Sao Paulo; Oscar de Souza Lopes and Lea Lopes of Instituto Adolfo Lutz, Secretaria de Estado da Sao Paulo, for providing facilities, transportation and assistance in topotypic surveys; Oswaldo P. Forattini, Ernesto X. Rabello and Maria das Dores Cotrim of Faculdade de Saude Publica, Universidade de Sao Paulo, for assistance in topotypic surveys and examination of type specimens; the late Bertha Lutz of Museu Nacional, Rio de Janeiro, for location of type material; Oswaldo Cruz Filho, Instituto Oswaldo Cruz, Rio de Janeiro, for assistance in examination of type specimens; Herbert C. Barnett and Paulo de Goes of Instituto de Microbiologia, Universidade Federal do Rio de Janeiro, for facilities and transportation, Luiz Otero of the Institute and Ricardo I. Rios of Instituto de Biologia of the University for assistance in topotypic surveys; Sebastiao Hamilton Xavier of Centro de Pesquisas "Rene Rachou," Belo Horizonte, for location of Rockefeller Foundation collection; Herbert C. Barnett, then of Brazilian-American Biomedical Program, Salvador, Bahia, for assistance in organization of topotypic survey in Bahia; Thomas H. G. Aitken, Amazonia Toda and associates, then of Belem Virus Laboratory, for collections in and around Belem; and Paulo de Almeida Machado then of Instituto Nacional de Pesquisas da Amazonia (INPA), Manaus, for assistance in organization of topotypic survey in Amazonia.

In Ecuador we were provided with transportation by SNEM-AID, Guayaquil, through the efforts of John O. Stivers; Ross H. Arnett, Jr. and Eugene J. Gerberg assisted in the topotypic survey; Manuel E. Arzube R., Instituto Nacional de Higiene, Guayaquil, supervised a few collections; Donald J. Pletsch and associates made some collections which were transmitted to us by W. Daniel Sudia, CDC.

The only cooperators in Peru were: Francisco Morales-Ayala, Departamento de Microbiologia y Parasitologia, Universidad Nacional de Trujillo; Michael J. Nelson, then a student in Department of Zool-

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ogy, University of California, Los Angeles; and Clark Gardner, then a student in Department of Biology, University of Utah.

In Chile Roberto H. Gonzalez, Estacion Experimental Agronomica, Maipu, provided facilities and transportation for a brief toponymic survey and miscellaneous collections.

As noted in Collection Records 7 (Heinemann and Belkin 1977a) various errors in previous publications of the project have been rectified in the present publication; also, most of the identifications are preliminary identifications only and in no way constitute a change in taxonomic status.

BRAZIL

The principal collections from Brazil available to the project, that are included in the present publication, are recorded under 3 separate codes: **BRA**, for collections supervised by T.H.G. Aitken or project personnel; **BRAP**, for collections supervised by O. de Souza Lopes; and **BRB** for additional collections supervised by T.H.G. Aitken. Not included in this publication is miscellaneous material with fragmentary data from collections of W.H.W. Komp (codes **BRAK**, **BRAW**) and Lloyd E. Rozeboom (**BRR**) from various localities, and H. C. Barnett (**BRS**) from Bahia. These collections may be treated at a later date when additions, corrections and an index to the entire series are published. Another valuable collection available to us and with preliminary identifications by us is not treated here. It was made on the Trans-Amazon Highway in 1974 in the State of Para by John F. Reinert, and it is not known to us what provision is being made for the publication of the records of this collection.

Maps and Gazetteers Used for Brazil

Brazil 1:2,500,000, Esso road map, 1971.

Estado de Sao Paulo 1:1,000,000, Instituto Geografico e Geologico do Estado de Sao Paulo, ed. 1964/66.

World 1:1,000,000, series 1301, sheets SA 22, SA 23, ed. 1-AMS.

World 1:250,000, series 1501, sheet SG 22-8, ed. 1.

Brazil 1:50,000, series H702; sheets 7522-4, 7723-4, 8125-1, -2, 8225-2, -3, -4, 8325-3, ed. 1-TPC; sheets 7823-4, 7924-1, 8024-4, 8025-3, 8125-3, 8225-1, 8325-4, ed. 1-DMATC.

Brazil City Graphic 1:25,000, series H901, sheet Belem, ed. 2-DMATC.

U. S. Board on Geographic Names, Gazetteer No. 71, Brazil, 1963.

Brazil Collectors

| | | | | | |
|----|---------------------|----|----------------------|----|------------------|
| BA | Brian T. Aitken | JB | John N. Belkin | RR | Ricardo I. Rios |
| UA | Bruce G. Aitken | GB | George K. Bryce | TR | Thomas E. Rogers |
| TA | Thomas H. G. Aitken | MF | Michael E. Faran | JS | J. Shaw |
| HA | J. Hal Arnell | RL | R. Lainson | | |
| HB | Herbert C. Barnett | KL | Kenneth J. Linthicum | | |

Code: BRA

The BRA collections are recognized by one of the following two printed labels: //BRA[handwritten 1-39]/Brasil [handwritten 68, 69 or with 65-66 blocked out]/Mosq Mid Amer//, //BRA[handwritten 40-61, 100-216, 220-307]/Brasil 7[handwritten 0, 5 or 6]/Mosq Mid Amer//.

Elevations are accurate to within about 10m. For collections BRA 1-61, the following terminology applies. The term "varzea" refers to a fresh water swamp subject to tidal fluctuation; "igapo" refers to a "blackwater swamp," a swamp forest not subject to tidal fluctuation. For collections BRA 220-307, identifications are incomplete because the associated skins and male genitalia have not yet been mounted on slides in most cases. Thus, there are undoubtedly more species present than are recorded here, and some of the identifications may be incorrect.

Summary of BRA Collections

| | | | |
|---------------|-------------------------|--------------------|---------------------------|
| BRA 1-34 | 23 Jul-18 Aug 1969 | BA, UA | Para |
| BRA 35, 37-61 | 10 Sept 1969-3 Nov 1970 | TA | Para |
| BRA 36 | 24 Jul 1968 | RL, JS | Mato Grosso |
| BRA 62-99 | Not used | | |
| BRA 100-216 | 24 Jan-3 Mar 1975 | HA, MF, KL, TR | Sao Paulo |
| BRA 220-307 | 22 Dec 1975-17 Mar 1976 | HB, JB, GB, MF, RR | Rio de Janeiro, Sao Paulo |

BRA Collection Records

1. Para, Belem, IPEAN, Reserva de Aura (22MGD8940), 1-30m; 23 Jul 69, BA, UA. Small treehole in forest; water yellow; bottom with dead leaves; deep shade. *Or. fascipes*.
2. Para, Belem, IPEAN, Reserva de Aura (22MGD8940), 1-30m; 23 Jul 69, BA, UA. Large ground pool in forest; water semipermanent, clear, stagnant, fresh; flotage; bottom with mud, dead leaves; deep shade. *Cx. (Mel.) ?productus*, *Sy. sp* undetermined, *Ur. (Ura.) calosomata* group sp B.
3. Para, Belem, IPEAN, Reserva de Aura (22MGD8940), 1-30m; 23 Jul 69, BA, UA. Fallen palm spathe in forest; water yellow; deep shade. *Cx. (Car.) bonnei*, *Li. asulleptus*, *Li. durhamii*, *Tr. (Trc.) digitatum*.
4. Para, Belem, IPEAN, Catu Forest, Igarape do Catu (22MGD8739), 20m; 25 Jul 69, BA, UA. Stream margin in forest; water permanent, yellow, stagnant, fresh; abundant vegetation; bottom with mud, dead leaves; deep shade. *Cx. (Mel.) sp* undetermined.
5. Para, Belem, IPEAN, Catu Forest, Igarape do Catu (22MGD8739), 20m; 25 Jul 69, BA, UA. Fallen leaf ("acai") in forest near stream; water clear; deep shade. *Cx. (Car.) bonnei*, *Li. asulleptus*, *Li. durhamii*, *Tr. (Trc.) digitatum*.
6. Para, Belem, IPEAN, Catu Forest, Igarape do Catu (22MGD8739), 20m; 25 Jul 69, BA, UA. Large ground pool in forest near stream; water semipermanent, yellow, stagnant, fresh; abundant vegetation; bottom with mud, dead leaves; deep shade. *Cx. (Ads.) amazonensis*, *Cx. (Mel.) albinensis*, *Cx. (Mel.) sp* undetermined.
7. Para, Belem, IPEAN, Catu Forest, Igarape do Catu (22MGD8739), 20m; 25 Jul 69, BA, UA. Small ground pool in forest near stream; water semipermanent, colored, stagnant, fresh; abundant algae; bottom with mud, dead leaves; partial shade. *Cx. (Ads.) amazonensis*, *Cx. (Mel.) sp* undetermined, *Ur. (Ura.) sp* undetermined.
8. Para, Belem, IPEAN, Mocambo Forest (22MGD8741), 20-30m; 28 Jul 69, BA, UA. Stream pool in forest; water permanent, clear, stagnant, fresh; abundant vegetation; bottom with mud, dead leaves; deep shade. *Cx. (Mel.) sp* undetermined.
9. Para, Belem, IPEAN, Mocambo Forest (22MGD8741), 20m; 28 Jul 69, BA, UA. Igapo interior; water permanent, yellow, stagnant, fresh; abundant vegetation; bottom with mud, dead leaves; deep shade. *Cx. (Mel.) sp* undetermined.
10. Para, Belem, IPEAN, Mocambo Forest (22MGD8741), 20m; 29 Jul 69, BA, UA. Igapo interior; water permanent, yellow, stagnant, fresh; abundant vegetation; bottom with mud, plant debris; deep shade. *Cx. (Mel.) albinensis*, *Cx. (Mel.) sp* undetermined, *Ur. (Ura.) sp* undetermined.
11. Para, Belem, IPEAN, Mocambo Forest (22MGD8741), 20m; 30 Jul 69, BA, UA. Igapo interior; water permanent, yellow, stagnant, fresh; abundant vegetation; bottom with mud, dead leaves; deep shade. *Cx. (Mel.) sp* undetermined.
12. Para, Belem, IPEAN, Mocambo Forest (22MGD8741), 20m; 30 Jul 69, BA, UA. Igapo interior; water permanent, yellow, stagnant, fresh; abundant vegetation; bottom with mud, dead leaves; deep shade. *Cx. (Mel.) sp* undetermined, *Ur. (Ura.) sp* undetermined.
13. Para, Belem, IPEAN, Catu Forest (22MGD8739), 20m; 31 Jul 69, BA, UA. Igapo interior; water permanent, yellow, stagnant, fresh; abundant vegetation; bottom with mud, dead leaves; deep shade. *Cx. (Mel.) sp* undetermined.
14. Para, Belem, IPEAN, Catu Forest (22MGD8739), 20m; 4 Aug 69, BA, UA. Igapo interior; water permanent, clear, stagnant, fresh; abundant vegetation; bottom with mud, dead leaves; deep shade. *Cx. (Mel.) phlogistus*, *Cx. (Mel.) sp* undetermined, *?Lz. sp* undetermined.

BRA Collection Records

15. Para, Belem, Utinga Forest (22MGD8542), 35m; 5 Aug 69, BA, UA. Small treehole along road in forest; water clear; deep shade. No material.
16. Para, Belem, Utinga Forest (22MGD8542), 35m; 5 Aug 69, BA, UA. Small treehole along road in forest; water clear; deep shade. *Cx. (And.) originator*.
17. Para, Belem, Utinga Forest (22MGD8542), 35m; 5 Aug 69, BA, UA. Small treehole along road in forest; water clear; deep shade. No material.
18. Para, Belem, Utinga Forest (22MGD8542), 35m; 5 Aug 69, BA, UA. Small treehole along road in forest; water clear; deep shade. No material.
19. Para, Belem, Utinga Captor de Agua (22MGD8442), 35m; 6 Aug 69, BA, UA. Ditch pool along road in cleared area; water permanent, clear, with slow current, fresh; a little vegetation; bottom with rocks; full sun. *Cx. (Mel.)* sp undetermined, *Lz.* sp undetermined.
20. Para, Belem, Utinga Captor de Agua (22MGD8442), 35m; 6 Aug 69, BA, UA. Large ground pool in dry ditch in cleared area; water permanent, clear, stagnant, fresh; abundant vegetation (water lilies); bottom with mud; partial shade. *Cx. (Mel.) evansae* group, *Lz.* sp undetermined.
21. Para, Belem, Utinga Captor de Agua (22MGD8442), 35m; 6 Aug 69, BA, UA. Ditch in cleared area; water permanent, clear, stagnant or with slow current, fresh; abundant vegetation (grass and water lilies); bottom with mud, sand, plant debris; full sun. *Ad. (Ady.) squamipennis*.
22. Para, Belem, IPEAN, Reserva de Aura (22MGD8940), 1-10m; 7 Aug 69, BA, UA. Large ground pool in varzea; water permanent, clear, stagnant, fresh; abundant herbaceous vegetation; bottom with mud, sand, dead leaves; deep shade. *Cx. (Ads.) amazonensis*, *Cx. (Mel.) comatus*, *Cx. (Mel.) eastor*, *Cx. (Mel.)* sp undetermined, *Lz.* sp 1, *Ur. (Ura.)* sp undetermined.
23. Para, Belem, IPEAN, Reserva de Aura (22MGD8940), 1-10m; 7 Aug 69, BA, UA. Fallen palm frond in varzea; water clear; deep shade. *Li. durhamii*.
24. Para, Belem, IPEAN, Reserva de Aura (22MGD8940), 1-10m; 7 Aug 69, BA, UA. Large ground pool in varzea; water permanent, clear, stagnant, fresh; abundant herbaceous vegetation; bottom with mud, sand, dead leaves; deep shade. *Cx. (Ads.) amazonensis*, *Cx. (Car.) bonnei*, *Cx. (Mel.)* sp undetermined, *Ur. (Ura.)* sp undetermined.
25. Para, Belem, IPEAN, Reserva de Aura (22MGD8940), 1-10m; 7 Aug 69, BA, UA. Small ground pool in varzea; water temporary, clear, stagnant, fresh; abundant herbaceous vegetation; bottom with mud, sand, dead leaves; deep shade. *Cx. (Mel.)* sp undetermined.
26. Para, Belem, IPEAN, Reserva de Aura (22MGD8940), 1-10m; 8 Aug 69, BA, UA. Small treehole in varzea; water colored; deep shade. *Cx. (And.) originator*.
27. Para, Belem, IPEAN, Reserva de Aura (22MGD8940), 1-10m; 8 Aug 69, BA, UA. Fallen frond in varzea; water clear; deep shade. *Li. asulleptus*, *Li. durhamii*.
28. Para, Belem, IPEAN, Reserva de Aura (22MGD8940), 1-10m; 8 Aug 69, BA, UA. Large ground pool in varzea; water semipermanent, clear, stagnant, fresh; no vegetation; bottom with mud, dead leaves; deep shade. *Cx. (Ads.) amazonensis*, *Cx. (Mel.)* sp undetermined.
29. Para, Belem, IPEAN, Catu Forest (22MGD8739), 20m; 8 Aug 69, BA, UA. Adults in trap (Disney trap baited with guinea pig) in partially cleared forest; 0.25m above ground; 1700-0700hrs. *Cq. (Rhy.) arribalzagai*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) vomerifer*.
30. Para, Belem, IPEAN, Mocambo Forest (22MGD8741), 20m; 12 Aug 69, BA, UA. Small ground pool in igapo; water semipermanent, clear, stagnant, fresh; abundant grassy, herbaceous, woody vegetation; bottom with plant debris; partial shade. *Lz.* sp 1, *Ur. (Ura.)* sp undetermined.
31. Para, Belem, IPEAN, Reserva de Aura (22MGD8940), 1-30m; 13 Aug 69, BA, UA. Large ground pool in forest; water semipermanent, clear, stagnant, fresh; no vegetation; bottom with mud, dead leaves; deep shade. *Cx. (Mel.)* sp undetermined.
32. Para, Belem, IPEAN, Reserva de Aura (22MGD8940), 1-30m; 13 Aug 69, BA, UA. Small treehole in forest; water yellow; deep shade. *Or. fascipes*.
33. Para, Belem, Utinga Forest (22MGD8542), 35m; 15 Aug 69, BA, UA. Swamp margin at edge of clearing; water permanent, clear, stagnant, fresh; abundant vegetation (algae, water lilies); bottom with mud, plant debris; full sun. *Cx. (Mel.) evansae* group, *Cx. (Mel.)* sp undetermined.

BRA Collection Records

34. Para, Belem, IPEAN, Reserva de Aura (22MGD8940), 1-30m; 18 Aug 69, BA, UA. Bamboo pot in forest; deep shade. No material.
35. Para, Belem, IPEAN, Catu Forest (22MGD8739), 20m; 10 Sept 69, TA. Adults in trap (Disney trap baited with guinea pig) in partially cleared forest; 0.25m above ground; 1700-0700hrs. *Ae. (Och.) fulvus*.
36. Mato Grosso, Chavantina, Serra do Roncador, 270km N of Chavantina on Chavantina-Cachimba road (12°51'S, 51°46'W), 550m; 24 Jul 68, RL, JS. Adults biting-landing on man along stream in forest; at ground level; 2000-2200hrs. *Ch. bonneae*.
37. Para, Belem, IPEAN, Catu Forest (22MGD8739), 20m; Oct 69, TA. Adults in trap (Disney trap baited with guinea pig) in partially cleared forest; 0.15m above ground; 1700-0700hrs. ?*Lz.* sp undetermined.
38. Para, Belem, IPEAN, Reserva de Aura (22MGD8940), 1-30m; 21 Nov 69, TA. Artificial container (rain gauge) in forest; 1m above ground; water clear; deep shade. *Cx. (Car.) urichii*.
39. Para, Belem, Avenida Almirante Tamandare (22MGD7838), 10m; 7 Dec 69, TA. Artificial container (bucket) in domestic area. *Ae. (Stg.) aegypti*.
40. Para, Belem, IPEAN, Catu Forest (22MGD8739), 20m; 28 Jan 70, TA. Adults in trap (Disney trap baited with spiny rat, *Proechimys*) in partially cleared forest; 0.15m above ground; 1700-0700hrs. ?*Lz.* sp undetermined.
41. Para, Belem, IPEAN, Catu Forest (22MGD8739), 20m; 5 Mar-29 Sept 1970, TA. Adults in trap (Disney trap baited with spiny rat, *Proechimys*) in partially cleared forest; 0.15m above ground; 1700-0700hrs. *Ae. (Och.) fulvus*, *Cq. (Rhy.) arribalzagai*, *Co.* spp undetermined, *Cx. (Cux.) quinquefasciatus*, *Cx. (Mel.) portesi*, *Lz.* spp undetermined, *Sy.* sp undetermined, *Tr. (Trc.) ?digitatum*, *Wy. (Dod.) aphobema* group, *Wy.* (subg. E) *argenteorostris*.
42. Para, Belem, IPEAN, Escola de Agronomia (22MGD855386), 30m; 3 Jun 70, TA. Artificial pond in domestic area; water permanent, clear, stagnant, fresh; abundant vegetation (algae, *Pistia*, *Eichhornia*); bottom of cement with plant debris; full sun. *An. (Nys.) triannulatus*, *Cx. (Mel.) educator*, *Cx. (Mel.) ocoassa*, *Ur. (Ura.) apicalis*.
43. Para, Belem, IPEAN, Reserva de Aura (22MGD8940), 1-30m; 20 Mar, 23 Apr, 26 Jun 1970, TA. Adults at light in forest; at ground level and 30m above ground; 1800-0600hrs. *Ae. (Och.) nubilus*, *Ae. (Och.) oligopistus*, *Ae. (Och.) serratus*.
44. Para, Belem, IPEAN, Mocambo Forest (22MGD8741), 20-30m; 1 Jul 70, TA. Stream margin in forest; water permanent, clear, with slow current, fresh; no vegetation; bottom with mud; deep shade. *Cx. (Mel.) eastor*.
45. Para, Belem, IPEAN, Mocambo Forest (22MGD8741), 20-30m; 1 Jul 70, TA. Ground pool (2 x 1m, 1m deep, excavated hole used for soil studies) in forest; water semipermanent, turbid, stagnant, fresh; no vegetation; bottom with mud; deep shade. *Cx. (Mel.) productus*, *Sy.* sp undetermined.
- 46A. Para, Belem, IPEAN, Reserva de Aura, tower (22MGD8940), 30m; 24 Jun 70, TA. Adults biting-landing on man in forest; 20m above ground in tower; midday. *Hg. (Hag.) janthinomys*.
- 46B. Para, Belem, IPEAN, Reserva de Aura, tower (22MGD8940), 30m; 1 Jul 70, TA. Adults biting-landing on man in forest; 20m above ground in tower; midday. *Hg. (Hag.) janthinomys*.
- 46C. Para, Belem, IPEAN, Reserva de Aura, tower (22MGD8940), 30m; 8 Jul 70, TA. Adults biting-landing on man in forest; 20m above ground in tower; midday. *Hg. (Hag.) janthinomys*.
- 47A. Para, Belem, IPEAN, Mocambo Forest (22MGD8741), 20-30m; 8 Jul 70, TA. Adults biting-landing on man at edge of stream in forest; 1400hrs. *Wy.* sp undetermined.
- 47B. Para, Belem, IPEAN, Mocambo Forest (22MGD8741), 20-30m; 22 Jul 70, TA. Adults biting-landing on man at edge of stream in forest; 1400hrs. *Wy.* spp undetermined.
48. Para, Belem, IPEAN, Mocambo Forest (22MGD8741), 20-30m; 8 Jul 70, TA. Small ground pool at edge of stream in forest; water semipermanent, clear, stagnant, fresh; no vegetation; bottom with mud, sand, dead leaves; deep shade. *Cx. (Mel.) productus*, *Cx. (Mel.)* sp undetermined, *Ur. (Ura.) pallidoverter*.
49. Para, Belem, IPEAN, Mocambo Forest (22MGD8741), 20-30m; 8-29 Jul 70, TA. Leaf axils of terrestrial plant (*Ischnosiphon*, Marantaceae) in forest; deep shade. *Co.* sp 43, *Tr. (Cte.) magnum*, *Tr.* (subg. A) *ulopus*, *Wy. (Prs.)* sp 26.

BRA Collection Records

50. Para, Belem, IPEAN, Reserva de Aura, tower (22MGD8940), 30m; 29 Jul 70, TA. Bamboo pot (with side and top hole) in forest; 25m above ground in tower; water clear; bottom with a few dead leaves; partial shade. *Sa. (Sab.) ?belisarioi*, *Tx. (Lyn.) haemorrhoidalis*.
51. Para, Belem, IPEAN, Reserva de Aura, tower (22MGD8940), 30m; 29 Jul 70, TA. Bamboo pot (with side and top hole) in forest; 20m above ground in tower; water clear; bottom with a few dead leaves; partial shade. *Or. fascipes*, *Wy. (Dod.) aphobema* group.
52. Para, Belem, IPEAN, Reserva de Aura, tower (22MGD8940), 30m; 29 Jul 70, TA. Bamboo pot (with top hole) in forest; 15m above ground in tower; water clear; bottom with a few dead leaves; partial shade. *Wy. (Dod.) aphobema* group.
53. Para, Belem, IPEAN, Reserva de Aura, tower (22MGD8940), 30m; 29 Jul 70, TA. Bamboo pot (with top hole) in forest; 10m above ground in tower; water clear; bottom with a few dead leaves; deep shade. No material.
54. Para, Belem, IPEAN, Reserva de Aura (22MGD8940), 1-30m; 29 Jul 70, TA. Artificial containers (old paint cans, egg shell) in forest; water clear; bottom with dead leaves; deep shade. *Cx. (And.) originator*, *Cx. (Car.) anduzei*, *Li. asulleptus*, *Tr. (Trc.) digitatum*, *Wy. (Prs.)* sp 26.
55. Para, Castanhal, about 40km E of, Santa Maria do Para, 50m; 22 May 70, TA. Artificial container (tire). *Cx. (Cux.) quinquefasciatus*, *Cx. (Lut.)* sp undetermined.
56. Para, Belem, IPEAN, water buffalo pasture, lake no. 2 (22MGD8541), 30m; 8-9 Sept 70, TA. Adults at light in pasture near lake; 1m above ground; night. *Co.* sp undetermined, *Ed. ?brevisector*, *Lz.* spp undetermined, *Sy.* sp undetermined.
57. Para, Belem, IPEAN, water buffalo pasture, lake no. 2 (22MGD8541), 30m; 28-29 Sept 70, TA. Adults at light in pasture near lake; night. *Ae. (Och.) oligopistus*, *Ae. (Och.) scapularis*, *Co.* sp undetermined, *Cx. (Mel.)* sp undetermined, *Ed. ?brevisector*, *Lz.* sp undetermined, *Sy.* spp undetermined, *Ur. (Ura.) lowii*.
58. Para, Belem, near Ananindeua, 50m; 13 Oct 70, TA. Eggs flushed from nares of bird (*Philydor erythrocerus*, Furnariidae) while looking for nasal mites in forest. *An. (Nys.)* sp undetermined.
59. Para, Belem, IPEAN, Reserva de Aura, tower (22MGD8940), 30m; 21 Oct 70, TA. Adults biting-landing on man in forest; at ground level; 1600-1700hrs. *Ae. (Pro.) argyrothorax*, *Cq. (Rhy.) arribalzagai*.
60. Para, Belem, IPEAN, Reserva de Aura, tower (22MGD8940), 30m; 3 Nov 70, TA. Bamboo pot in forest; 15m above ground in tower; partial shade. *Sa. (Sab.) ?belisarioi*, *Tr.* sp undetermined.
61. Para, Belem, IPEAN, Reserva de Aura, tower (22MGD8940), 30m; 3 Nov 70, TA. Bamboo pot in forest; 25m above ground in tower; partial shade. *Tx. (Lyn.) haemorrhoidalis*.
- 62-99. Not used.
100. Sao Paulo, Salesopolis, Boraceia Field Station, Rio Claro (23KMP09918440), 810m; 24 Jan 75, MF, TR. Streamside rockhole (1.2m above stream level); water light brown; no vegetation; full sun. *Ae. (Och.) fluviatilis*, *Cx. (Cux.) coronator* group, *Cx. (Cux.) dolosus* group, *Cx. (Lut.) bigoti*.
101. Sao Paulo, Salesopolis, Boraceia Field Station, Rio Claro (23KMP09918440), 810m; 24 Jan 75, MF, TR. Streamside rockhole (1m above stream level); water light brown; flottage; bottom with mud, plant debris; partial shade. *Ae. (Och.) fluviatilis*.
102. Sao Paulo, Salesopolis, Boraceia Field Station, Rio Claro (23KMP09918440), 810m; 24 Jan 75, MF, TR. Streamside rockhole; water brown; bottom with mud, leaves; full sun. *Ae. (Och.) fluviatilis*, *Cx. (Cux.) coronator* group, *Cx. (Lut.) bigoti*, *Cx. (Mel.) ?pilosus*, *Cx. (Mel.)* sp undetermined.
103. Sao Paulo, Salesopolis, Boraceia Field Station, Rio Claro (23KMP09918440), 810m; 24 Jan 75, MF, TR. Streamside rockhole (1m above stream level); full sun. *Ae. (Och.) fluviatilis*, *Cx. (Cux.) coronator* group.
104. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP0983), 810m; 24 Jan 75, MF, TR. Small ground pool at edge of stream; a little grassy vegetation; bottom with mud, leaves; partial shade. *Cx. (Mel.)* sp undetermined.
105. Sao Paulo, Salesopolis, Boraceia Field Station, Rio Claro (23KMP0983), 810m; 25 Jan 75, MF, TR. Cut or broken bamboo at edge of stream; 1.5m above ground; water turbid; deep shade. *Tr. (Trc.) castroi*.

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106. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09108351), 870m; 25 Jan 75, MF, TR. Terrestrial bromeliads. *Tx. (Lyn.)* sp H.
- 106A. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09108351), 870m; 25 Jan 75, MF, TR. Small terrestrial bromeliads. *Co.* sp undetermined, *Cx. (Mel.) ocellatus*, *Cx. (Mcx.) fuscatus*, *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.) worontzowi*.
- 106B. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09108351), 870m; 25 Jan 75, MF, TR. Large terrestrial bromeliads. *Cx. (Mcx.) fuscatus*, *Cx. (Mcx.) worontzowi*, *Cx. (Mcx.)* sp 89, *Cx. (Mcx.)* sp 104, *Cx. (Mcx.)* sp undetermined.
- 106C. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP0983), 850m; 25 Jan 75, MF, TR. Probably bamboo. *Sa. (Sbn.) aurescens*, *Wy. (Mia.) limai*, *Wy. (subg. B) personata*.
107. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09258366), 840m; 25 Jan 75, MF. Cut or broken bamboo; water turbid. *Tr. (Trc.) pallidiventer*.
- 107A. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09258366), 840m; 25 Jan 75, MF. Cut or broken bamboo; water turbid. *Tr. (Trc.) simile*.
- 107B. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09258366), 840m; 25 Jan 75, MF. Probably bamboo. *Tr. (Trc.) pallidiventer*.
- 107C. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09258366), 840m; 25 Jan 75, MF. Cut or broken bamboo; water turbid. *Sa. (Sbn.) aurescens*, *Tr. (Trc.) pallidiventer*.
108. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09258366), 840m; 25 Jan 75, MF. Epiphytic bromeliads. *Cx. (Mcx.) fuscatus*, *Cx. (Mcx.) pleuristriatus*, *Cx. (Mcx.) worontzowi*, *Cx. (Mcx.)* sp 104.
- 108C. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09258366), 840m; 25 Jan 75, MF. Epiphytic bromeliads. *Cx. (Mcx.) fuscatus*.
109. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09358355), 860m; 25 Jan 75, TR. Cut bamboo; partial shade. *Tr. (Trc.) pallidiventer*.
110. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09158355), 860m; 25 Jan 75, MF. Terrestrial bromeliads along road. *Cx. (Mel.) ocellatus*, *Cx. (Mcx.) imitator* subgroup.
111. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09158359), 860m; 25 Jan 75, MF. Ground pool along road; water semipermanent, amber; bottom with plant debris; partial shade. *Cx. (Mel.) bahiense*.
112. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09458360), 860m; 25 Jan 75, TR. Cut or broken bamboo; water clear; partial shade. *Sa. (Sbn.) aurescens*, *Tx. (Lyn.)* ?sp H, *Wy. (Mia.) limai*.
113. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP0983), 850m; 25 Jan 75, TR. Uncut bamboo; water clear; partial shade. *Sa. (Sbn.) aurescens*, *Sa. (Sbn.) intermedius*, *Tx. (Lyn.)* sp H, *Wy. (Mia.) limai*.
114. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09208394), 830m; 25 Jan 75, TR. Small ground pool near stream; bottom with mud, leaves. *An. (Nys.) strodei*, *Cx. (Mel.) bahiense*.
115. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09078360), 860m; 24 Jan 75, HA. Artificial container (bowl) in lab. Culicine egg raft.
116. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09308361), 850m; 26 Jan 75, MF, TR. Cut or broken bamboo; partial shade. *Cx. (Car.) iridescens*, *Sa. (Sbn.) intermedius*, *Tx. (Lyn.)* sp H, *Tr. (Shn.) fluviatile*, *Tr. (Shn.)* n. sp, *Tr. (Trc.) pallidiventer*.
117. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09318356), 860m; 26 Jan 75, MF, TR. Uncut bamboo; water clear. *Tx. (Lyn.)* sp H, *Wy. (subg. B) personata*.
118. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09308361), 850m; 26 Jan 75, MF, TR. Terrestrial bromeliads. *Cx. (Mcx.)* sp 89, *Cx. (Mcx.)* sp 104.
119. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09658369), 890m; 26 Jan 75, MF, TR. Uncut bamboo; 2m above ground; water clear; partial shade. *Co. appendiculata*, *Cx. (Mcx.) neglectus*, *Or. albicosta*.
120. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09108360), 860m; 26 Jan 75, TR. Epiphytic bromeliads; 1m above ground; full sun. *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.) worontzowi*, *Cx. (Mcx.)* sp 104, *Cx. (Mcx.)* sp undetermined, *Ph. davisi*, *Ph. theobaldi*.

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121. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09168365), 860m; 26 Jan 75, TR. Large ground pool; water semipermanent, clear; abundant grassy vegetation; partial shade. *Cx. (Cux.) dolosus* group.
122. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09328352), 860m; 27 Jan 75, MF. Cut or broken bamboo; 1.5m above ground; water turbid. *Cx. (Car.) iridescens*, *Tr. (Shn.) fluviatile*, *Tr. (Trc.) pallidiventer*.
123. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09518347), 840m; 27 Jan 75, MF. Uncut bamboo; 1.5m above ground; water turbid. *Sa. (Sbn.) lutzianus*, *Tr. (Trc.) pallidiventer*.
124. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP10078372), 860m; 27 Jan 75, MF. Large uncut bamboo. No material.
125. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09918440), 810m; 27 Jan 75, MF. Cut or broken bamboo (several internodes). *Tr. (Shn.) fluviatile*, *Tr. (Trc.) compressum*, *Tr. (Trc.) simile*.
126. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09918440), 810m; 27 Jan 75, MF. Uncut bamboo (several internodes); water brown. *Tr. (Shn.) fluviatile*, *Tr. (Trc.) simile*.
127. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09518346), 840m; 28 Jan 75, MF. Epiphytic bromeliads (10 plants sampled); 2-3m above ground. *Tr. (Run.) ?reversum*.
128. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP0983), 850m; 28 Jan 75, MF. Terrestrial bromeliads. *Cx. (Mcx.)* sp 104.
129. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09208394), 830m; 24 Jan 75, TR. Small ground pool; water temporary, clear. *Cx. (Mel.)* sp undetermined, *Ps. (Jan.)* sp undetermined.
130. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP08188407), 880m; 29 Jan 75, MF. Epiphytic bromeliads (5 plants); 1-3m above ground. *An. (Ker.) cruzii*, *Cx. (Mel.) ocellatus*, *Cx. (Mcx.) fuscatus*, *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.) pleuristriatus*, *Cx. (Mcx.) worontzowi*, *Cx. (Mcx.)* sp 90, *Cx. (Mcx.)* sp 104, *Cx. (Mcx.)* sp 105, *Ph. davisii*, *Tx. (Lyn.)* sp M.
131. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP08188407), 880m; 29 Jan 75, MF. Bamboo (rotting, with small hole in top). *Tx. (Lyn.)* sp H, *Tr. (Shn.) fluviatile*, *Tr. (Trc.) pallidiventer*, *Wy. (subg. B) personata*.
132. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09418361), 860m; 29 Jan 75, MF. Cut or broken bamboo. *Tx. (Lyn.)* sp H, *Tr. (Shn.) fluviatile*, *Tr. (Shn.)* n. sp, *Tr. (Trc.) pallidiventer*, *Wy. (Mia.) limai*.
133. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09418361), 860m; 29 Jan 75, MF. Epiphytic bromeliads; 1.5m above ground. *Cx. (Mel.) ocellatus*, *Cx. (Mcx.) imitator* subgroup.
134. Sao Paulo, Bertioaga, Rio Guaratuba several km from mouth (23KMP110755), 5m; 28 Jan 75, KL, TR. Small ground pool; water temporary, clear; partial shade. *Cx. (Cux.) dolosus* group.
135. Sao Paulo, Bertioaga, Rio Guaratuba several km from mouth (23KMP110755), 5m; 28 Jan 75, KL, TR. Epiphytic bromeliads; 1m above ground. *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.)* sp 94, *Cx. (Mcx.)* sp 104, *Cx. (Mcx.)* sp undetermined, *Ph. davisii*, *Ph. edwardsii*.
136. Sao Paulo, Bertioaga, Rio Guaratuba several km from mouth (23KMP110755), 5m; 28 Jan 75, KL, TR. Large ground pool; water temporary, clear; abundant grassy vegetation; bottom with mud; partial shade. *Ae. (Och.) dupreei* group, *Cx. (Mel.) ?pilosus*, *Sy.* sp undetermined.
137. Sao Paulo, Bertioaga, Rio Guaratuba several km from mouth (23KMP110755), 5m; 28 Jan 75, KL, TR. Artificial container (metal pan); water clear; bottom with leaves. *Tx. (Lyn.)* sp L.
138. Sao Paulo, Bertioaga, Rio Guaratuba several km from mouth (23KMP110755), 5m; 28 Jan 75, KL, TR. Artificial container (metal pan); water clear; bottom with leaves; deep shade. *Cx. (Cux.) mollis*, *Sy.* sp undetermined.
139. Sao Paulo, Bertioaga, Rio Guaratuba several km from mouth (23KMP110755), 5m; 28 Jan 75, KL, TR. Large ground pool; water clear; abundant grassy vegetation; partial shade. No material.
140. Sao Paulo, Bertioaga, Rio Guaratuba several km from mouth (23KMP110755), 5m; 29 Jan 75, KL, TR. Terrestrial bromeliads. *Co.* sp 39, *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.) pleuristriatus*, *Cx. (Mcx.)* sp 92, *Cx. (Mcx.)* sp 104, *Cx. (Mcx.)* sp undetermined, *Ph. galvaoi*, *Ph. ?longirostris*, *Ph. theobaldi*, *Tr. (Run.) ?reversum*.

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141. Sao Paulo, Bertioga, Rio Guaratuba several km from mouth (23KMP11037555), 5m; 29 Jan 75, KL, TR. Bamboo pots; 1m above ground; water clear; partial shade. *Cx. (Cux.) mollis*, *Cx. (Mcx.) lanei*, *Tx. (Lyn.)* sp L.
- 141A. Specimens labeled 141 but from bromeliads; probably 140 or 147. *Cx. (Mcx.) fuscatus*, *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.)* sp undetermined, *Ph. davisii*, *Ph. galvaoui*, *Ph. theobaldi*.
142. Sao Paulo, Bertioga, Rio Guaratuba several km from mouth (23KMP11037555), 5m; 29 Jan 75, KL, TR. Artificial container (gallon glass jar) in cultivated area; water clear; bottom with leaves; partial shade. *Cx. (Cux.) mollis*, *Li. durhamii*.
143. Sao Paulo, Bertioga, Rio Guaratuba several km from mouth (23KMP110755), 5m; 30 Jan 75, KL, TR. Large ground pool; water semipermanent, fresh; bottom with leaves; partial shade. No material.
144. Sao Paulo, Bertioga, Rio Guaratuba several km from mouth (23KMP110756), 5m; 30 Jan 75, KL, TR. Large ground pool; water semipermanent, clear, fresh; bottom with leaves. No material.
145. Sao Paulo, Bertioga, Rio Guaratuba several km from mouth (23KMP110755), 5m; 30 Jan 75, KL, TR. Bamboo pots (20); water clear; bottom with leaves; partial shade. *Ae. (Pro.) terrens* subgroup, *Cx. (Cux.) mollis*, *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.)* sp undetermined, *Tx. (Lyn.)* sp L, *Wy. (Tri.)* sp undetermined.
146. Sao Paulo, Bertioga, Rio Vermelho near confluence with Rio Guaratuba (23KMP1175), 5m; 30 Jan 75, KL, TR. Terrestrial bromeliads; partial shade. *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.)* sp 92, *Cx. (Mcx.)* sp 104, *Cx. (Mcx.)* sp undetermined, *Ph. galvaoui*.
147. Sao Paulo, Bertioga, Rio Vermelho near confluence with Rio Guaratuba (23KMP1175), 5m; 30 Jan 75, KL, TR. Epiphytic bromeliads; 1m above ground; partial shade. *Co.* sp 39, *Co.* sp 40, *Cx. (Mcx.) fuscatus*, *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.) pleuristriatus*, *Cx. (Mcx.) worontzowi*, *Cx. (Mcx.)* sp 92, *Cx. (Mcx.)* sp 104, *Cx. (Mcx.)* sp undetermined, *Ph. davisii*, *Ph. edwardsii*, *Ph. flabellata*, *Ph. galvaoui*, *Ph. theobaldi*, *Wy. (Den.)* sp undetermined.
148. Sao Paulo, Bertioga, Rio Guaratuba several km from mouth (23KMP109756), 5m; 30 Jan 75, KL, TR. Bamboo pots; 10m above ground; water clear; partial shade. *Cx. (Mcx.) lanei*, *Tx. (Lyn.)* sp undetermined.
149. Sao Paulo, Bertioga, mouth of Rio Guaratuba (23KMP08437195), near sea level; 30 Jan 75, KL, TR. Artificial container (fiberglass boat) in mangroves; water fresh; bottom with leaves; full sun. *Cx. (Cux.) coronator* group.
150. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP10818429), 850m; 3 Feb 75, MF. Pond; water permanent, clear, with slow current; grassy vegetation; full sun. *An. (Nys.) strodei*, *Cx. (Mel.) ?inadmirabilis*, *Ur. (Ura.)* sp undetermined.
151. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP12248464), 850m; 3 Feb 75, MF. Margins of small lake; water permanent, clear; abundant vegetation; full sun. *An. (Nys.) strodei*, *Cx. (Cux.) mollis*, *Cx. (Mel.) ?inadmirabilis*, *Cx. (Mel.) pilosus*.
152. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09308365), 840m; 22 Jan 75, TR. Cut or broken bamboo; water clear; partial shade. *Sa. (Sbn.) aurescens*, *Sa. (Sbn.) melanonymphe*, *Tx. (Lyn.)* sp H.
153. Sao Paulo, Itapetininga, 28km W of; 4 Feb 75, KL, TR. Uncut bamboo (many internodes) at edge of second growth; water clear; partial shade. *Cx. (Cux.) mollis*, *Sa. (Sbn.) aurescens*, *Wy. (Mia.) limai*.
154. Sao Paulo, Itapetininga, 28km W of; 4 Feb 75, KL, TR. Epiphytic bromeliads; 1m above ground; partial shade. *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.)* sp undetermined, *Ph. incaudata*, *Ph. muehlensii*, *Tx. (Lyn.)* sp M, *Wy. (Wyo.) medioalbipes*.
155. Sao Paulo, Itapetininga, 28km W of; 4 Feb 75, KL, TR. Adults biting-landing on man along road; 1700hrs. No material.
156. Sao Paulo, Itapetininga, 28km W of; 4 Feb 75, KL, TR. Adults biting-landing on man at edge of *Araucaria* woods; 1900hrs. No material.
157. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP12248464), 850m; 17 Feb 75, MF, TR. Margins of small lake; water permanent, clear; abundant grassy vegetation; full sun. *An. (Nys.) strodei*, *Cx. (Mel.) dureti*, *Cx. (Mel.) ?inadmirabilis*.

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158. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP117846), 880m; 17 Feb 75, MF, TR. Seepage pool along road; water semipermanent, clear; bottom with sand, rock, leaves; partial shade. *Cx. (Mel.)* sp undetermined.
159. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP10818429), 850m; 17 Feb 75, MF, TR. Margins of pond; water permanent, clear, with slow current; grassy vegetation; full sun. *Cx. (Mel.) ?inadmirabilis*.
160. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP096840), 860m; 17 Feb 75, TR. Fallen palm spathe; water clear; partial shade. *Cx. (Car.) iridescens*, *Li. asulleptus*.
161. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP096841), 860m; 17 Feb 75, TR. Epiphytic bromeliads in second growth; partial shade. *Cx. (Mcx.) fuscatus*, *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.)* sp 89, *Cx. (Mcx.)* sp 104, *Cx. (Mcx.)* sp undetermined.
162. Sao Paulo, Itapetininga, 28km W of; 5 Feb 75, KL, TR. Uncut bamboo; 2m above ground; water clear; partial shade. *Tr. (Trc.) castroi*.
163. Sao Paulo, Itapetininga, 28km W of; 5 Feb 75, KL, TR. Bamboo pots near stream; water brown; partial shade. *Tx. (Lyn.)* sp K.
164. Sao Paulo, Itapetininga, 28km W of; 5 Feb 75, KL, TR. Bamboo pots near stream in second growth; 1m above ground; water clear; partial shade. *Cx. (Cux.) quinquefasciatus*, *Cx. (Mcx.) imitator* subgroup, *Hg. (Con.) leucocelaenus*, *Sa. (Sab.) albiprivus*.
165. Sao Paulo, Itapetininga, 28km W of; 5 Feb 75, KL, TR. Uncut bamboo; 1m above ground; water brown; partial shade. *Sa. (Sbn.) aurescens*.
166. Sao Paulo, Itapetininga, 28km W of; 5 Feb 75, KL, TR. Large ground pool (3 x 2m, 1m deep) in grazing area; water temporary, turbid; grassy vegetation; full sun. *An. (Nys.) strodei*, *Cx. (Cux.) coronator* group, *Cx. (Mel.) pilosus*.
167. Sao Paulo, Itapetininga, 28km W of; 5 Feb 75, KL, TR. Small ground pool in grazing area; water temporary, clear; abundant grassy vegetation; bottom with mud, grass; partial shade. *Ae. (Och.) crinifer*, *Ae. (Och.) dupreei* group sp B, *An. (Nys.) strodei*, *Cx. (Cux.) coronator* group, *Cx. (Mel.) pilosus*.
168. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP096837), 890m; 9 Feb 75, TR. Fallen palm spathe; water clear; deep shade. *Li. asulleptus*, *Li. durhamii*.
169. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP092836), 840m; 9 Feb 75, TR. Artificial container (cup); water clear; deep shade. *Li. asulleptus*.
170. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP092839), 840m; 9 Feb 75, KL, TR. Seepage pool near stream; water semipermanent, clear; bottom with mud, plant debris. *An. (Myz.) antunesi*, *Cx. (Mel.) bahiense*.
171. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP092839), 840m; 9 Feb 75, KL, TR. Small ground pool; water temporary, clear; bottom with mud, leaves; partial shade. No material.
172. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP092839), 840m; 9 Feb 75, KL, TR. Fallen palm spathe; water clear; partial shade. *Cx. (Car.) iridescens*, *Li. asulleptus*, *Li. durhamii*.
173. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP092839), 840m; 9 Feb 75, KL, TR. Fallen palm spathe; water clear; partial shade. *Li. asulleptus*.
174. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP092839), 840m; 9 Feb 75, KL, TR. Artificial container (cup); partial shade. *Li. asulleptus*.
175. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09208360), 860m; 15 Feb 75, TR. Small ground pool in second growth; water temporary, clear, abundant grassy vegetation; bottom with mud; partial shade. *Cx. (Mel.) bahiense*, *Lz.* sp undetermined.
176. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09238365), 860m; 15 Feb 75, TR. Terrestrial bromeliads; full sun. *Cx. (Mcx.) fuscatus*, *Cx. (Mcx.) pleuristriatus*, *Cx. (Mcx.) worontzowi*, *Cx. (Mcx.)* sp 104, *Cx. (Mcx.)* sp undetermined.
177. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09248366), 840m; 15 Feb 75, TR. Cut or broken bamboo; full sun. *Cx. (Car.) iridescens*, *Tx. (Lyn.)* sp undetermined, *Tr. (Shn.) fluviatile*, *Tr. (Shn.)* n. sp, *Tr. (Trc.) pallidiventer*.

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178. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09308361), 850m; 15 Feb 75, TR. Cut bamboo; water clear; deep shade. *Cx. (Mcx.) imitator* subgroup, *Tr. (Trc.) digitatum*, *Tr. (Trc.) pallidiventer*, *Wy. (subg. B) personata*.
179. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09318356), 860m; 15 Feb 75, TR. Cut bamboo; water clear. *Co. appendiculata*, *Cx. (Car.) iridescens*, *Cx. (Mcx.) neglectus*, *Or. albicosta*, *Sa. (Sbn.) lutzianus*, *Tx. (Lyn.)* sp J, *Tr. (Trc.) pallidiventer*.
180. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09078360), 860m; 15 Feb 75, TR. Adult biting man in lab; 1800hrs. *An. (Ker.)* sp undetermined.
181. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09108360), 860m; 16 Feb 75, MF. Fallen palm spathe in second growth; partial shade. *Ae. (Och.) ?fluviatilis*, *Cx. (Cux.) dolosus* group, *Cx. (Cux.)* sp undetermined, *Cx. (Lut.) ?bigoti*, *Li. asulleptus*.
182. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09838403), 880m; 16 Feb 75, TR. Large terrestrial bromeliads along road; partial shade. *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.) worontzowi*.
183. Sao Paulo, Salesopolis, Boraceia Field Station, Rio Claro (23KMP09918440), 810m; 16 Feb 75, TR. Streamside rockhole (1m above stream level; 0.4m wide, 0.6m deep); water light brown; bottom with sand; full sun. *Ae. (Och.) fluviatilis*, *Cx. (Cux.) coronator* group.
184. Sao Paulo, Salesopolis, Boraceia Field Station, Rio Claro (23KMP09918440), 810m; 16 Feb 75, TR. Streamside rockhole (1m above stream level; 1m wide, 0.3m deep); a little algae; full sun. *Ae. (Och.) fluviatilis*, *Cx. (Cux.) coronator* group.
185. Sao Paulo, Salesopolis, Boraceia Field Station, Rio Claro (23KMP09918440), 810m; 16 Feb 75, TR. Streamside rockhole (1m above stream level; 1 x 0.6m, 5cm deep); water turbid; full sun. *Cx. (Cux.) coronator* group.
186. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09158360), 860m; 18 Feb 75, TR. Terrestrial bromeliads; partial shade. *Co.* sp undetermined, *Cx. (Mcx.) fuscatus*, *Cx. (Mcx.)* sp 104, *Cx. (Mcx.)* sp undetermined.
187. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP08648392), 840m; 18 Feb 75, TR. Seepage pool at base of rocky bank; water semipermanent, clear; abundant grassy vegetation; full sun. *Lz.* sp undetermined.
188. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09308361), 840m; 18 Feb 75, TR. Cut bamboo; water clear; partial shade. *Tr. (Trc.) pallidiventer*.
189. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09248350), 860m; 18 Feb 75, TR. Cut bamboo (rotten); water light brown; partial shade. *Tr. (Shn.) fluviatile*.
190. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09318356), 860m; 18 Feb 75, TR. Cut bamboo (freshly cut); water clear; partial shade. *Tr. (Trc.) pallidiventer*.
191. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09328352), 860m; 18 Feb 75, TR. Terrestrial bromeliads; partial shade. *Cx. (Mcx.) fuscatus*, *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.) worontzowi*, *Cx. (Mcx.)* sp 95, *Cx. (Mcx.)* sp undetermined, *Ph. ?theobaldi*.
192. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP0983), 850m; 21 Feb 75, MF. Terrestrial bromeliads (3 plants); deep shade. *Cx. (Mcx.) fuscatus*, *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.)* sp 89, *Tr. (Run.) ?reversum*.
193. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP0983), 850m; 22 Feb 75, MF. Cut or broken bamboo; water clear; partial shade. *Cx. (Car.) iridescens*, *Tr. (Run.) ?reversum*, *Tr. (Trc.) pallidiventer*.
194. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP0983), 850m; 22 Feb 75, MF. Fallen palm spathe; deep shade. *Li. asulleptus*.
195. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP0983), 850m; 22 Feb 75, MF. Uncut bamboo; partial shade. *Cx. (Car.) soperi*, *Or. albicosta*, *Tr. (Trc.) ?digitatum*, *Tr. (Trc.) pallidiventer*.
196. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP0983), 850m; 22 Feb 75, MF. Uncut bamboo. *Cx. (Mcx.) neglectus*, *Or. albicosta*, *Tx. (Lyn.)* ?sp L, *Tr. (Trc.) ?digitatum*.
197. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP0983), 850m; 22 Feb 75, MF. Cut and uncut bamboo. *Co. appendiculata*, *Cx. (Car.) soperi*, *Cx. (Mcx.) neglectus*, *Or. albicosta*, *Wy. (Mia.) ?oblita*, *Wy. (subg. B) personata*.

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198. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09308361), 850m; 23 Feb 75, MF. Epiphytic bromeliads. *An. (Ker.) cruzii*, *Co.* sp undetermined, *Cx. (Mcx.) fuscatus*, *Cx. (Mcx.) imitator* subgroup, *Ph.* sp undetermined.
199. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP0983), 850m; 23 Feb 75, MF. Terrestrial bromeliads. *Cx. (Mcx.) fuscatus*, *Cx. (Mcx.)* sp 104, *Cx. (Mcx.)* sp undetermined, *Or. albicosta*.
200. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP0983), 850m; 23 Feb 75, MF. Large treehole in stump; water turbid; bottom with leaves. *Ae. (Pro.) terrens* subgroup.
201. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP10078372), 860m; 23 Feb 75, MF. Large uncut bamboo. *Cx. (Car.) iridescens*, *Cx. (Mcx.) neglectus*, *Cx. (Mcx.)* sp 93, *Sa. (Sbn.) intermedium*, *Tx. (Lyn.)* ?sp H, *Tx. (Lyn.)* ?sp L.
202. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09078360), 860m; 27 Feb 75, TR. Adults biting man in lab; 1900hrs. *An. (Ker.) cruzii*.
203. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09308361), 850m; 1 Mar 75, TR. Terrestrial bromeliads. *Cx. (Mcx.) worontzowi*, *Cx. (Mcx.)* sp 89, *Cx. (Mcx.)* sp 104, *Or. albicosta*.
204. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09318356), 840m; 1 Mar 75, TR. Terrestrial bromeliads (3 plants); partial shade. *Cx. (Mcx.) fuscatus*, *Cx. (Mcx.) worontzowi*, *Cx. (Mcx.)* sp 89, *Cx. (Mcx.)* sp 104, *Cx. (Mcx.)* sp undetermined.
205. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09328352), 840m; 1 Mar 75, TR. Terrestrial bromeliads; full sun. *Cx. (Mcx.) fuscatus*, *Cx. (Mcx.)* sp 91, *Cx. (Mcx.)* sp undetermined.
206. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09518347), 860m; 1 Mar 75, TR. Fallen palm spathe; water clear; partial shade. *Li. asulleptus*, *Li. durhamii*.
207. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09508345), 860m; 1 Mar 75, TR. Cut bamboo (recently cut); water clear; partial shade. *Tr. (Trc.) pallidiventer*.
208. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09078360), 860m; 2 Mar 75, TR. Artificial container (concrete basin) in domestic area; water semipermanent, clear; bottom with leaves; partial shade. *Cx. (Cux.) dolosus* group.
209. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP0983), 850m; 2 Mar 75, TR. Pool in intermittent stream; water semipermanent, clear; bottom with sand, plant debris; deep shade. *Cx. (Mel.) bahiense*.
210. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09858372), 890m; 2 Mar 75, TR. Cut bamboo (recently cut); water clear; partial shade. *Tr. (Trc.) pallidiventer*.
211. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP10078372), 860m; 2 Mar 75, TR. Cut bamboo; partial shade. *Or. albicosta*, *Tx. (Lyn.)* sp J, *Tr. (Trc.) digitatum*, *Tr. (Trc.) pallidiventer*.
212. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP09868403), 880m; 2 Mar 75, TR. Cut bamboo; water clear; partial shade. *Cx. (Car.) iridescens*, *Tr. (Trc.) digitatum*, *Tr. (Trc.) pallidiventer*.
213. Not used.
214. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP0983), 850m; 3 Mar 75, TR. Fallen palm spathe; water clear; partial shade. *Cx. (Cux.) dolosus* group, *Cx. (Mcx.) ?neglectus*, *Li. asulleptus*.
215. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP0983), 850m; 3 Mar 75, TR. Fallen palm spathe; deep shade. *Cx. (Car.) iridescens*, *Li. asulleptus*.
216. Sao Paulo, Salesopolis, Boraceia Field Station (23KMP0983), 850m; 3 Mar 75, TR. Fallen leaf; deep shade. No material.
- 217-219. Not used.
220. Rio de Janeiro, Rio de Janeiro, Ilha da Cidade Universitaria (23KPQ816731), 5m; 22 Dec 75, GB, MF, RR. Large ground pool (same as 299) along road in cleared area; water temporary, clear, stagnant, fresh; a little grassy, herbaceous vegetation; bottom with mud, plant debris, feces; full sun. *An. (Nys.)* sp undetermined.
221. Rio de Janeiro, Petropolis, km 33 on old road to Petropolis 3km from BR135 (23KPR77400 7), 100m; 22 Dec 75, JB, et al. Artificial container (can on ground) in second growth forest; water turbid; bottom with plant debris, dead ants; deep shade. *Li. durhamii*.
222. Rio de Janeiro, Petropolis, km 33 on old road to Petropolis 3km from BR135 (23KPR77400 7), 100m; 22 Dec 75, JB, et al. Artificial container (can in tree) in second growth forest; 4m above ground; water clear; bottom with plant debris; deep shade. *Li. durhamii*.

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223. Rio de Janeiro, Petropolis, km 33 on old road to Petropolis 3km from BR135 (23KPR77400 7), 100m; 22 Dec 75, JB, et al. Artificial container (can on ground) in second growth forest; water turbid; bottom with plant debris, dead ants; deep shade. No material.
224. Rio de Janeiro, Petropolis, km 33 on old road to Petropolis 3km from BR135 (23KPR77400 7), 100m; 22 Dec 75, JB, et al. Artificial container (bottle in tree) in second growth forest; about 10m above ground; water clear; deep shade. *Hg. (Con.) leucocelaenus*.
225. Rio de Janeiro, Petropolis, km 33 on old road to Petropolis 3km from BR135 (23KPR77400 7), 100m; 22 Dec 75, JB. Leaf axils of terrestrial aroid (*Xanthosoma*) along road in second growth forest; partial shade. *Wy. (Den.) ?mystes*.
226. Rio de Janeiro, Petropolis, km 33 on old road to Petropolis 3km from BR135 (23KPR77400 7), 100m; 22 Dec 75, HB. Leaf axils of terrestrial aroid (*Xanthosoma*) along road in second growth forest; deep shade. *Ph. pilicauda*, *Wy. (Den.) ?mystes*.
227. Rio de Janeiro, Rio de Janeiro, Duque de Caxias, Rio Sao Joao de Meriti (23KPQ732772), 5m; 24 Dec 75, MF. Stream margin; water foul; abundant vegetation; bottom with mud; full sun. *An. (Nys.) aquasalis*.
228. Rio de Janeiro, Rio de Janeiro, Duque de Caxias, Rio Sao Joao de Meriti (23KPQ732772), 5m; 24 Dec 75, HB. Marshy depression along road; water temporary, clear, stagnant, fresh, foul, with oil on surface; abundant grassy vegetation; bottom with mud. *An. (Nys.) aquasalis*, *Cx. (Cux.)* sp undetermined, *Ur. (Ura.) lowii*.
229. Rio de Janeiro, Seropedica, 39.5km W of on Rt. 462, 4km W of Rio Guandu (23KPQ362867), 15m; 24 Dec 75, HB, GB, MF. Stream margin in grazing-cultivation area; water permanent, clear, with slow current, fresh; bottom with mud, sand; full sun. *An. (Nys.) aquasalis*, *Ur. (Ura.) lowii*.
230. Rio de Janeiro, Seropedica, 39.5km W of on Rt. 462, 4km W of Rio Guandu (23KPQ362867), 15m; 24 Dec 75, HB, GB, FM. Stream margin in grazing-cultivation area; water permanent, turbid, with slow current, fresh; a little vegetation; bottom with mud, sand; full sun. *An. (Nys.) noroestensis*, *Cx. (Mel.)* sp undetermined.
231. Rio de Janeiro, Seropedica, 39.5km W of on Rt. 462, 4km W of Rio Guandu (23KPQ362867), 15m; 24 Dec 75, JB. Small ground pool (pot hole) along road in cultivated area; water temporary, turbid, brownish, fresh; bottom with mud, sand, plant debris; deep shade. *An. (Nys.) albicansis*, *An. (Nys.) noroestensis*, *Cx. (Cux.) coronator* group, *Cx. (Mel.)* sp undetermined.
232. Rio de Janeiro, Niteroi, Estrada Velha de Itaipu, Casa de Pedra (23KPQ975655), 50m; 26 Dec 75, MF. Bamboo (hole in top) in second growth; 0.2m above ground; water turbid, brown. *Wy. (Pen.) arthrostigma*.
233. Rio de Janeiro, Niteroi, Estrada Velha de Itaipu, Casa de Pedra (23KPQ975655), 50m; 26 Dec 75, HB. Bamboo (1cm hole in top) in second growth; 0.6m above ground. *Wy. (Pen.) arthrostigma*.
234. Rio de Janeiro, Niteroi, Estrada Velha de Itaipu, Casa de Pedra (23KPQ975655), 50m; 26 Dec 75, RR. Terrestrial bromeliads. *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.) pleuristriatus* group, *Ph. edwardsi*, *Wy. (Cru.) dyari*, *Wy. (Wyo.) pertinans* group.
235. Rio de Janeiro, Rio de Janeiro, Ilha da Cidade Universitaria (23KPQ811729), 5m; 28 Dec 75, MF. Large ground pool (50m wide) in grassy area; water semipermanent, turbid, brownish, stagnant; abundant grassy vegetation; bottom with plant debris; full sun. *Ae. (Och.) scapularis*, *Ps. (Jan.) ?pseudomelanota*.
236. Rio de Janeiro, Rio de Janeiro, Ilha da Cidade Universitaria (23KPQ818732), 5m; 28 Dec 75, JB, GB. Small ground pool (same as 240) along road in domestic area; water temporary, brown, stagnant, fresh; a little grassy vegetation; bottom with mud. *Ae. (Och.) scapularis*, *Cx. (Mel.)* sp undetermined, *Ps. (Jan.) ?pseudomelanota*.
237. Rio de Janeiro, Rio de Janeiro, Jacarepagua, Avenida Dos Bandeirantes at Arroio Pavuna (23KPQ665605), 5m; 29 Dec 75, JB, GB, MF. Large ground pool near stream in domestic area; water temporary, brown, stagnant, fresh, foul; abundant grassy, herbaceous vegetation; bottom with mud, plant debris, feces; full sun. *Ae. (Och.) scapularis*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp undetermined, *Ur. (Ura.) lowii*.

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238. Rio de Janeiro, Rio de Janeiro, Jacarepagua, Avenida Dos Bandeirantes at Arroio Pavuna (23 KPQ665605), 5m; 29 Dec 75, JB, MF, RR. Large ground pools (several) in domestic area; water semipermanent, green, stagnant, fresh, foul; abundant-moderate grassy, herbaceous vegetation, some scum; bottom with mud, plant debris; partial shade. *Ae. (Och.) scapularis*, *Cx. (Cux.) coronator* group, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp undetermined, *Ps. (Pso.) ciliata*.

239. Rio de Janeiro, Rio de Janeiro, Jacarepagua, Avenida Dos Bandeirantes at Arroio Pavuna (23 KPQ665605), 5m; 29 Dec 75, GB, MF. Large ground pool in domestic area; water semipermanent, green, stagnant, fresh, oil on surface; abundant-moderate grassy, herbaceous vegetation, some scum; bottom with mud, plant debris; full sun. *Ae. (Och.) scapularis*, *An. (Nys.)* sp undetermined, *Cx. (Cux.) coronator* group, *Cx. (Mel.)* sp undetermined.

240. Rio de Janeiro, Rio de Janeiro, Ilha da Cidade Universitaria (23KPQ818732), 5m; 29 Dec 75, JB. Small ground pool (same as 236) along road in domestic area; water temporary, brown, stagnant, fresh; a little grassy vegetation; bottom with mud. *Ae. (Och.) scapularis*, *Ps. (Jan.) ?pseudomelanota*.

241. Rio de Janeiro, Rio de Janeiro, Campo do Grumari (23KPQ502502), near sea level; 30 Dec 75, JB, RR. Terrestrial bromeliads (many plants) in restinga 300m from beach; partial shade. *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.) pleuristriatus* group, *Cx. (Mcx.)* sp 101, *Ph. sp* undetermined, *Tr. (Run.) ?cerqueirai*, *Wy. (Den.) ?finlayi*.

242. Rio de Janeiro, Rio de Janeiro, Campo do Grumari (23KPQ502502), near sea level; 30 Dec 75, JB. Terrestrial bromeliads (many plants) in restinga 300m from beach; partial shade. *An. (Ker.)* sp undetermined, *Co. sp* 39, *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.) pleuristriatus* group, *Cx. (Mcx.)* sp 98, *Cx. (Mcx.)* sp 101, *Cx. (Mcx.)* sp undetermined, *Ph. sp* 5, *Ph. sp* undetermined.

243. Rio de Janeiro, Rio de Janeiro, Campo do Grumari (23KPQ502502), near sea level; 30 Dec 75, HB. Terrestrial bromeliads (many plants) in restinga 300m from beach; partial shade. *Co. sp* 39, *Co. sp* 40, *Co. sp* undetermined, *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.) pleuristriatus* group, *Cx. (Mcx.)* sp 101, *Cx. (Mcx.)* sp 103, *Ph. sp* 5, *Ph. sp* undetermined, *Tr. (Run.) ?cerqueirai*, *Wy. (Den.)* sp undetermined.

244. Rio de Janeiro, Rio de Janeiro, Campo do Grumari (23KPQ502502), near sea level; 30 Dec 75, MF. Terrestrial bromeliads (many plants) in restinga 300m from beach; partial shade. *An. (Ker.)* sp undetermined, *Co. sp* 39, *Co. sp* 40, *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.) pleuristriatus* group, *Cx. (Mcx.)* sp 96, *Cx. (Mcx.)* sp 97, *Cx. (Mcx.)* sp 98, *Cx. (Mcx.)* sp 99, *Cx. (Mcx.)* sp 101, *Cx. (Mcx.)* sp undetermined, *Ph. sp* 5, *Ph. sp* undetermined.

245. Rio de Janeiro, Niteroi, Lagoa de Itaipu just E of Itaipu (23KQQ008588), near sea level; 5 Jan 76, RR. Swampy margin of salt lagoon; water permanent, turbid, brown, stagnant, brackish; abundant flottage, algae, grassy vegetation; bottom with mud, sand, plant debris. *Cx. (Cux.)* spp undetermined, *Ur. (Ura.) lowii*.

246. Rio de Janeiro, Niteroi, Lagoa de Itaipu just E of Itaipu (23KQQ008588), near sea level; 5 Jan 76, MF. Swampy margin of salt lagoon; water permanent, clear, stagnant, brackish; tall reeds present; bottom with mud. *Cx. (Cux.)* sp undetermined.

247. Rio de Janeiro, Niteroi, Lagoa de Itaipu just E of Itaipu (23KQQ008588), near sea level; 5 Jan 76, MF, RR. Swampy margin of salt lagoon; water permanent, stagnant, brackish; grassy vegetation; bottom with mud; full sun. *Cx. (Cux.)* sp undetermined.

248. Rio de Janeiro, Niteroi, Lagoa de Itaipu just E of Itaipu (23KQQ008588), near sea level; 5 Jan 76, MF. Swampy margin of salt lagoon; water permanent, stagnant, brackish; grassy vegetation; bottom with mud. *An. (Nys.) aquasalis*, *Cx. (Cux.)* sp undetermined.

249. Rio de Janeiro, Niteroi, Varzea das Mocas (23KQQ0664), 80m; 5 Jan 76, MF. Uncut bamboo in cultivated area; water turbid; deep shade. *Tx. (Lyn.)* sp H.

250. Rio de Janeiro, Niteroi, Varzea das Mocas (23KQQ0664), 80m; 5 Jan 76, MF. Uncut bamboo in cultivated area; water turbid; deep shade. *Tx. (Lyn.)* sp H, *Wy. (Mia.)* sp undetermined, *Wy. (Pen.) arthrostigma*.

251. Rio de Janeiro, Niteroi, Varzea das Mocas (23KQQ0664), 80m; 5 Jan 76, RR. Ground pool in irrigation ditch along road in cultivated area; water brown, with slow current; a little vegetation. *Cx. (Mel.)* sp undetermined.

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252. Rio de Janeiro, Niteroi, Varzea das Mocas (23KQQ0664), 80m; 5 Jan 76, MF. Small ground pool along road; water clear; a little vegetation; bottom with mud, sand; partial shade. *Cx. (Cux.) coronator* group, *Cx. (Cux.)* sp undetermined.
253. Rio de Janeiro, Niteroi, Varzea das Mocas (23KQQ0664), 80m; 5 Jan 76, MF, RR. Stream margin in domestic area; water turbid, brown, stagnant, foul; abundant grassy vegetation; bottom with mud, plant debris, feces; full sun. *An. (Nys.) noroestensis*, *Cx. (Cux.) coronator* group, *Cx. (Cux.)* sp undetermined, *Ur. (Ura.) lowii*.
254. Rio de Janeiro, Itaborai, Porto das Caixas (23KQQ1788), 20m; 6 Jan 76, RR. Marshy depression in grazing area; water semipermanent, clear, stagnant, fresh; abundant grassy vegetation; bottom with mud; full sun. *Cx. (Cux.)* sp undetermined, *Ur. (Ura.) lowii*.
255. Rio de Janeiro, Itaborai, Porto das Caixas (23KQQ1788), 20m; 6 Jan 76, RR. Small ground pool (1.5m wide) along road in grazing-cultivated area; water temporary, muddy, stagnant, fresh; a little grassy vegetation; bottom with mud; full sun. *Ae. (Och.) scapularis*, *Ps. (Gra.) confinnis* group, *Ps. (Pso.) ciliata*.
256. Rio de Janeiro, Itaborai, Porto das Caixas (23KQQ1788), 20m; 6 Jan 76, MF. Large ground pool in grazing area; water semipermanent, clear, brown, stagnant, fresh; abundant grassy vegetation; bottom with mud; partial shade. *Ae. (Och.) scapularis*.
257. Rio de Janeiro, Itaborai, Porto das Caixas (23KQQ1788), 20m; 10 Jan 76, HB, GB. Stream margin along road in grazing-cultivated area; water semipermanent, brown, with slow current, fresh; abundant grassy vegetation; bottom with mud; full sun. *An. (Nys.)* sp undetermined, *Cx. (Mel.)* spp undetermined, *Ps. (Jan.) ?pseudomelanota*, *Ur. (Ura.) pulcherrima*.
258. Rio de Janeiro, Itaborai, Porto das Caixas (23KQQ1788), 20m; 10 Jan 76, RR. Large ground pool along road in grazing-cultivated area; water temporary, clear, stagnant, fresh; a little vegetation; bottom with mud; full sun. *An. (Nys.)* sp undetermined.
259. Rio de Janeiro, Itaborai, Porto das Caixas (23KQQ1788), 20m; 10 Jan 76, HB. Large ground pool along road in grazing-cultivated area; water temporary, brown, stagnant, fresh; abundant grassy vegetation; bottom with mud; full sun. *Cx. (Mel.)* sp undetermined.
260. Rio de Janeiro, Rio de Janeiro, between Universidade Rural and Seropedica on BR465 (23KPQ3383), 50m; 12 Jan 76, GB, RR. Pond along road in cleared area; water semipermanent, clear, stagnant, fresh, with oil on surface; abundant herbaceous, floating (*Pistia*) vegetation; bottom with mud, plant debris, feces; full sun. *Ad. (Ady.) squamipennis*, *An. (Nys.) albitarsis*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp undetermined.
261. Rio de Janeiro, Rio de Janeiro, Ilha do Governador, NE corner of airport (23KPQ812748), 5m; 15 Jan 76, GB, RR. Large ground pool along road in cleared area; water semipermanent, clear, stagnant, fresh; abundant cattails; bottom with mud; full sun. *Cx. (Mel.)* sp undetermined.
262. Rio de Janeiro, Petropolis, km 33 on old road to Petropolis 3km from BR135 (23KPR77400 7), 100m; 16 Jan 76, GB. Artificial container (can on ground) in forest; deep shade. Material discarded.
263. Rio de Janeiro, Petropolis, km 33 on old road to Petropolis 3km from BR135 (23KPR77400 7), 100m; 16 Jan 76, GB. Artificial container (can on ground) in forest; deep shade. *Li. durhamii*.
264. Rio de Janeiro, Petropolis, km 33 on old road to Petropolis 3km from BR135 (23KPR77400 7), 100m; 16 Jan 76, GB. Artificial container (can on ground) in forest; deep shade. *Cx. (Mx.) pleuristriatus* group, *Li. durhamii*.
265. Rio de Janeiro, Petropolis, km 33 on old road to Petropolis 3km from BR135 (23KPR77400 7), 100m; 16 Jan 76, GB. Artificial container (can on ground) in forest; deep shade. *Li. durhamii*.
266. Rio de Janeiro, Petropolis, km 33 on old road to Petropolis 3km from BR135 (23KPR77400 7), 100m; 16 Jan 76, GB. Artificial container (can on ground) in forest; deep shade. *Li. durhamii*.
267. Rio de Janeiro, Petropolis, km 33 on old road to Petropolis 3km from BR135 (23KPR77400 7), 100m; 16 Jan 76, GB. Artificial container (can on ground) in forest; deep shade. *Cx. (Cux.)* sp undetermined, *Li. durhamii*.
268. Rio de Janeiro, Petropolis, km 33 on old road to Petropolis 3km from BR135 (23KPR77400 7), 100m; 16 Jan 76, GB. Artificial container (bottle on ground) in forest; deep shade. *Li. durhamii*.

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269. Rio de Janeiro, Surui, just W of, 14km E of jct. of BR464 and BR135 on BR464 (23KPQ909 3), 20m; 20 Jan 76, GB, RR. Pond along road in cleared area; water semipermanent, clear, stagnant, fresh; abundant grassy, herbaceous vegetation; bottom with mud, sand; full sun. *An. (Nys.) albitarsis*, *Cx. (Mel.)* sp undetermined.
270. Rio de Janeiro, Rio de Janeiro, Duque de Caixas, Rio Sao Joao de Meriti (23KPQ732772), 5m; 21 Jan 76, GB. Large ground pool near stream in grazing area; water temporary, brown, stagnant, fresh, foul; a little vegetation; bottom with mud, feces; full sun. *Ae. (Och.) scapularis*.
271. Rio de Janeiro, Petropolis, km 33 on old road to Petropolis 3km from BR135 (23KPR77400 7), 100m; 23 Jan 76, GB. Terrestrial bromeliad in forest; water vol. 0.5liters; deep shade. *Cx. (Mel.) ocellatus* group, *Cx. (Mcx.) aureus*, *Ph. pilicauda*, *Ph.* sp undetermined.
272. Rio de Janeiro, Rio de Janeiro, Campo do Grumari (23KPQ5050), near sea level; 26 Jan 76, GB. Terrestrial bromeliads along road in cleared area; partial shade. *An. (Ker.)* sp undetermined, *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.)* sp undetermined, *Ph.* sp undetermined.
273. Rio de Janeiro, Rio de Janeiro, Campo do Grumari (23KPQ5050), near sea level; 26 Jan 76, GB. Terrestrial bromeliads in restinga near sea; partial shade. *An. (Ker.)* sp undetermined, *Cx. (Mcx.) imitator* subgroup, *Ph.* sp undetermined.
274. Rio de Janeiro, Rio de Janeiro, Campo do Grumari (23KPQ5050), near sea level; 26 Jan 76, GB. Terrestrial bromeliads in restinga near sea; partial shade. *Cx. (Mcx.) pleuristriatus* group, *Cx. (Mcx.)* sp undetermined.
275. Rio de Janeiro, Rio de Janeiro, Campo do Grumari (23KPQ5050), near sea level; 26 Jan 76, HB. Terrestrial bromeliads in restinga near sea; partial shade. *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.) pleuristriatus* group, *Ph.* sp undetermined, *Tr.* sp undetermined.
276. Rio de Janeiro, Petropolis, km 33 on old road to Petropolis 3km from BR135 (23KPR77400 7), 100m; 27 Jan 76, HB. Artificial containers (many cans, bottles) in forest; deep shade. *Li. durhamii*.
277. Rio de Janeiro, Niteroi, Varzea das Mocas (23KQQ062644), 80m; 29 Jan 76, GB. Artificial container (bottle on ground) at edge of second growth; partial shade. *Li. durhamii*.
278. Rio de Janeiro, Niteroi, Varzea das Mocas (23KQQ062644), 80m; 29 Jan 76, GB. Artificial container (bottle) at edge of second growth; partial shade. *Tx. (Lyn.)* sp undetermined.
279. Rio de Janeiro, Niteroi, Varzea das Mocas (23KQQ062644), 80m; 29 Jan 76, GB. Adults biting-landing on man at edge of second growth; 1030hrs; partial shade. *Hg. (Con.) leucocelaenus*, *Sa. (Sab.) cyaneus* group.
280. Rio de Janeiro, Itaguaí, Brisa Mar (23KPQ1968), 5m; 3 Feb 76, GB. Small ground pool at edge of cultivated area; water temporary, turbid, stagnant, fresh; abundant flottage; bottom with mud; partial shade. *An.* sp undetermined.
281. Rio de Janeiro, Itaguaí, Brisa Mar (23KPQ1968), 5m; 4 Feb 76, GB. Artificial container (cooking pot) in domestic area; partial shade. *Li. durhamii*.
282. Rio de Janeiro, Itaguaí, Brisa Mar (23KPQ1968), 5m; 4 Feb 76, GB. Ditch along road in domestic area; water temporary, clear, stagnant, fresh; a little herbaceous vegetation; partial shade. *An. (Nys.) noroestensis*, *Cx. (Cux.)* sp undetermined, *Ur. (Ura.) lowii*.
283. Rio de Janeiro, Niteroi, Varzea das Mocas (23KQQ061644), 80m; 4 Feb 76, GB. Small ground pool (50cm wide, 75cm deep, $\frac{3}{4}$ full of water) along road in grazing-cultivated area; water temporary, brown, stagnant; no vegetation; bottom with mud; full sun. *Cx. (Cux.)* sp undetermined, *Ps. (Gra.) cingulata* group.
284. Rio de Janeiro, Niteroi, Varzea das Mocas (23KQQ061644), 80m; 5 Feb 76, GB. Small ground pool (50cm wide, 75cm deep, $\frac{3}{4}$ full of water) along road in grazing-cultivated area; water temporary, brown, stagnant; bottom with mud; full sun. *Cx. (Cux.)* sp undetermined, *Ps. (Gra.) cingulata* group.
285. Rio de Janeiro, Rio de Janeiro, Campo do Grumari (23KPQ5050), near sea level; 10 Feb 76, GB. Terrestrial bromeliads in restinga near sea; partial shade. *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.) pleuristriatus* group, *Ph.* sp undetermined.
286. Rio de Janeiro, Rio de Janeiro, Campo do Grumari (23KPQ5050), near sea level; 10 Feb 76, GB. Terrestrial bromeliads in restinga near sea; partial shade. *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.) pleuristriatus* group, *Cx. (Mcx.)* sp undetermined.

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287. Rio de Janeiro, Rio de Janeiro, Campo do Grumari (23KPQ5050), near sea level; 10 Feb 76, GB. Terrestrial bromeliads in restinga near sea; partial shade. *Ph.* sp undetermined.
288. Rio de Janeiro, Itaguai, Ilha da Madeira, N end of (23KPQ2066), near sea level; 12 Feb 76, HB, GB. Marshy depression along road near mangroves; water semipermanent, clear, stagnant, brackish; a little vegetation; bottom with mud; full sun. *Ae. (Och.) taeniorhynchus*.
289. Rio de Janeiro, Itaguai, Ilha da Madeira, N end of (23KPQ2066), near sea level; 12 Feb 76, HB, GB. Marshy depression along road near mangroves; water semipermanent, clear, stagnant, brackish; a little vegetation; bottom with mud; full sun. *An. (Nys.) aquasalis*, *Cx. (Cux.)* sp undetermined.
290. Rio de Janeiro, Niteroi, Varzea das Mocas (23KQQ061644), 80m; 13 Feb 76, GB. Well (0.7m wide, 1.2m deep) in cultivated area; water permanent, clear, stagnant, fresh, slightly foul; no vegetation; bottom and sides lined with rocks; full sun. *Ae. (Och.) fluviatilis*, *An. (Nys.) albitarsis*, *Cx. (Cux.)* sp undetermined.
291. Rio de Janeiro, Niteroi, Varzea das Mocas (23KQQ061644), 80m; 13 Feb 76, GB. Small ground pool along road in cultivated area; water temporary; full sun. *An. (Nys.) albitarsis*, *An. (Nys.) noroestensis*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp undetermined.
292. Rio de Janeiro, Niteroi, Varzea das Mocas (23KQQ061644), 80m; 13 Feb 76, GB. Small ground pool (fence post hole) along road in grazing-cultivated area; water temporary, brown, stagnant; no vegetation; bottom with mud; full sun. *Cx. (Cux.) coronator* group, *Cx. (Lut.) bigoti*, *Ur. (Ura.) lowii*.
293. Rio de Janeiro, Itaguai, Ilha da Madeira, N end of (23KPQ2066), near sea level; 16 Feb 76, RR. Artificial container (aluminum plate) along road in cultivated area; deep shade. *Cx. (Cux.) corniger*, *Li. durhamii*.
294. Rio de Janeiro, Itaguai, Ilha da Madeira, N end of (23KPQ2066), near sea level; 16 Feb 76, RR. Artificial container (aluminum plate) along road in cultivated area; deep shade. *Li. durhamii*.
295. Rio de Janeiro, Itaguai, Ilha da Madeira, N end of (23KPQ2066), near sea level; 16 Feb 76, RR. Small ground pool along road in cultivated area; water semipermanent, yellow, stagnant, fresh; a little vegetation; bottom with mud; deep shade. *Cx. (Cux.)* sp undetermined.
296. Rio de Janeiro, Itaguai, Ilha da Madeira, N end of (23KPQ2066), near sea level; 16 Feb 76, RR. Large ground pool along road in cultivated area; water semipermanent, black, stagnant, fresh; abundant algae; bottom with mud, much plant debris; deep shade. *Cx. (Cux.) nigripalpus*, *Cx. (Cux.)* sp undetermined.
297. Rio de Janeiro, Rio de Janeiro, Jacarepagua, "Pau da Fome"; 17 Feb 76, RR. Small artificial container in forest; partial shade. *Li. asulleptus*, *Li. durhamii*.
298. Rio de Janeiro, Niteroi, Varzea das Mocas (23KQQ061644), 80m; 19 Feb 76, RR. Small ground pool (fence post hole) along road in grazing-cultivated area; water temporary, brown, stagnant; no vegetation; bottom with mud; full sun. *An. (Nys.)* sp undetermined.
299. Rio de Janeiro, Rio de Janeiro, Ilha da Cidade Universitaria (23KPQ816731), 5m; 24 Feb 76, RR. Large ground pool (same as 220) along road in cleared area; water temporary, clear, stagnant, fresh; a little grassy, herbaceous vegetation; bottom with mud, plant debris; full sun. *An. (Nys.) albitarsis*, *Cx. (Mel.)* sp undetermined, *Ur. (Ura.) lowii*.
300. Rio de Janeiro, Angra dos Reis, about 15km N of, km 106 on BR101, about halfway between Rio Jurumirim and Rio Airo (23KNQ7168), near sea level; 6 Mar 76, GB. Terrestrial bromeliad along road near mangroves; water vol. 50ml; full sun. *Cx. (Mcx.)* sp 99, *Wy. (Den.)* sp undetermined.
301. Rio de Janeiro, Mambucaba, km 148 on BR101 (23KNQ4552?), 10m; 6 Mar 76, HB, GB. Epiphytic bromeliads (many plants) along road; 0-2m above ground; water vol. 50-300cc per plant; full sun. *Cx. (Mcx.) imitator* subgroup, *Cx. (Mcx.)* sp 96, *Cx. (Mcx.)* sp 97, *Cx. (Mcx.)* sp 99, *Cx. (Mcx.)* sp undetermined, *Wy. (Den.)* sp undetermined.
302. Sao Paulo, Caraguatatuba, about 15km NE of, km 229 on BR101, turnoff to Praia da Tabatinga (23KMP7093), 5m; 7 Mar 76, HB. Large ground pool along road; water semipermanent, clear, stagnant, fresh; a little herbaceous vegetation; bottom with mud; full sun. *Cx. (Mel.)* sp undetermined.
303. Sao Paulo, Itanhaem, just NE of, km 104 on BR101 (23JLP1925), near sea level; 8 Mar 76, GB. Large ground pool along road in domestic area; water temporary, clear, stagnant; a little vegetation; bottom with mud; full sun. *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp undetermined.

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304. Sao Paulo, Itanhaem, Peruibe, SW edge of along Rio Preto, near sea level; 8 Mar 76, GB. Adults in trap (standard New Jersey light trap) and biting-landing on man in clearing between stream and forest; 1830-2030hrs. *Ae. (Och.) scapularis*, *An. (Ano.) intermedius*, *Cq. (Rhy.) albifera* or *chrysonotum*.
305. Sao Paulo, Ilha de Cananeia, Cananeia, 1km S of (22JKN0430), near sea level; 9 Mar 76, GB. Adults biting-landing on men along road in forest; 1730-1915hrs. *Ae. (Och.) serratus* group, *An. (Ker.)* sp undetermined, *Ph.* sp undetermined, *Ps. (Jan.) ferox*, *Sa. (Sab.) cyaneus* group.
306. Sao Paulo, Ilha de Cananeia, Cananeia, 1km S of (22JKN0430), near sea level; 10 Mar 76, GB. Adults biting-landing on men along road in forest; 1400-1500hrs; partial shade. *An. (Ker.)* sp undetermined, *Ph.* sp undetermined.
307. Rio de Janeiro, Rio de Janeiro, Campo do Grumari (23KPQ5050), near sea level; 17 Mar 76, GB. Terrestrial bromeliads (many plants) in restinga; partial shade. *An. (Ker.)* sp undetermined, *Co.* sp 39, *Co.* sp undetermined, *Cx. (Mex.) imitator* subgroup, *Cx. (Mex.)* sp 98, *Cx. (Mex.)* sp 101, *Cx. (Mex.)* sp undetermined, *Ph.* sp undetermined, *Wy. (Den.)* sp undetermined.

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MATO GROSSO

Chavantina (14°40'S, 52°21'W), 270km N of on Chavantina-Cachima road, in Serra do Roncador (12°51'S, 51°46'W), 550m.—36.

PARA

Ananindeua (1°22'S, 48°23'W, about 15km NE of Belem), vicinity of, 50m.—58.

Belem (22MGD7839, capital of Para) and vicinity. Avenida Almirante Tamandare (22MGD7838), 10m.—39. Utinga Captor de Agua (22MGD8442), 35m.—19, 20, 21. Utinga Forest (22MGD8542), 35m.—15, 16, 17, 18, 33.

IPEAN (22MGD840410, Instituto de Pesquisas e Experimentacao Agropecuarias do Norte, agricultural research institute directly E of Belem on Rio Guama), various localities in. Escola de Agronomia (22MGD855386), 30m.—42. Water buffalo pasture, lake no. 2 (22MGD8541), 30m.—56, 57. Reserva de Aura=APEG Forest (22MGD8940), 1-30m.—1, 2, 3, 22, 23, 24, 25, 26, 27, 28, 31, 32, 34, 38, 43, 46A, 46B, 46C, 50, 51, 52, 53, 54, 59, 60, 61. Catu Forest (22MGD8739), 20m.—4, 5, 6, 7, 13, 14, 29, 35, 37, 40, 41. Mocambo Forest (22MGD8741), 20-30m.—8, 9, 10, 11, 12, 30, 44, 45, 47A, 47B, 48, 49.

Santa Maria do Para (1°21'S, 47°34'W, about 40km E of Castanhal), 50m.—55.

RIO DE JANEIRO (including former Guanabara)

Angra dos Reis (23KNQ7055, town about 100km W of Rio de Janeiro), about 15km N of. Km 106 on BR101, about halfway between Rio Jurumirim and Rio Ariro (23KNQ7168), near sea level.—300.

Duque de Caixas (23KPQ7379, city just N of Rio de Janeiro). Rio Sao Joao de Meriti (23KPQ7327), 5m.—227, 228, 270.

Grumari, Campo do (23KPQ5050, restinga about 20km SW of Rio de Janeiro), near sea level.—241, 242, 243, 244, 272, 273, 274, 275, 285, 286, 287, 307.

Itaguaí (23KPQ2570, town about 40km W of Rio de Janeiro), just SW of. Brisa Mar (23KPQ1968), 5m.—280, 281, 282.

Itaipu (23KQQ0058, village on Lagoa de Itaipu about 7km SE of Niteroi), vicinity of. Lagoa de Itaipu just E of Itaipu (23KQQ008588), near sea level.—245, 246, 247, 248.

Jacarepagua (23KPQ7062, suburb of Rio de Janeiro), vicinity of. Avenida Dos Bandeirantes at Arroio Pavuna (23KPQ665605), 5m.—237, 238, 239. "Pau da Fome."—297.

Madeira, Ilha da (23KPQ2066, island separated from mainland by narrow channel, just SW of Itaguaí), N end of, near sea level.—288, 289, 293, 294, 295, 296.

Mambucaba (23KNQ4953, village about 20km W of Angra dos Reis), vicinity of. Km 148 on BR 101 (23KNQ4552?), 10m.—301.

Niteroi (23KPQ9367, city across Baía de Guanabara from Rio de Janeiro), vicinity of. Estrada Velha de Itaipu, Casa de Pedra (23KPQ975655), 50m.—232, 233, 234.

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Petropolis (23KPR8709, city about 50km N of Rio de Janeiro), about 10km SW of. Km 33 on old road to Petropolis 3km from BR135 (23KPR774007), 100m.—221, 222, 223, 224, 225, 226, 262, 263, 264, 265, 266, 267, 268, 271, 276.

Porto das Caixas (23KQQ1788, village about 5km N of Itaborai), 20m.—254, 255, 256, 257, 258, 259.

Rio de Janeiro (23KPQ8165, capital of state). Ilha da Cidade Universitaria (23KPQ8172, 8173), 5m.—220, 235, 236, 240, 299. Ilha do Governador, NE corner of airport (23KPQ812748), 5m.—261.

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Surui (23KPQ9292, village about 8km W of Maje), just W of. BR464, 14km E of jct. of BR464 and 135, 20m.—269.

Varzea das Mocas (23KQQ0664, area about 10km E of Niteroi), 80m.—249, 250, 251, 252, 253, 277, 278, 279, 283, 284, 290, 291, 292, 298.

SAO PAULO

Boraceia Field Station (23KMP0883, 0884, 0983, 0984, 1083, 1084, 1184, 1284, research station in Serra do Mar about 15km S of Salesopolis, see Forattini, Lopes and Rabello 1968 for additional information), 800-900m.—100, 101, 102, 103, 104, 105, 106, 106A, 106B, 106C, 107, 107A, 107B, 107C, 108, 108C, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 150, 151, 152, 157, 158, 159, 160, 161, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 214, 215, 216.

Cananea (22JKN0430, town on Ilha de Cananea), 1km S of, near sea level.—305, 306.

Caraguatatuba (23KMP5887, town on coast about 130km E of Sao Paulo), about 15km NE of. Km 229 on BR101, turnoff to Praia da Tabatinga (23KMP7093), 5m.—302.

Guaratuba, Rio (23KMP0872, river that flows into ocean about 28km NE of Bertioaga), various localities on. Mouth of Rio Guaratuba (23KMP08437195), near sea level.—149. Several km from mouth of Rio Guaratuba (23KMP1075, 1175), 5m.—134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 148.

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Itapetininga (23°36'S, 48°03'W, town about 140km W of Sao Paulo), vicinity of. 28km W of Itapetininga (23°40'S, 48°05'W).—153, 154, 155, 156, 162, 163, 164, 165, 166, 167.

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Aedes (Ochlerotatus) dupreei group sp undetermined: *eucephalaeus*, *hastatus*, sp B or related sp.—136.

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Trichoprosopon (Trichoprosopon) compressum Lutz 1905.—125.
Trichoprosopon (Trichoprosopon) digitatum (Rondani 1848).—3, 5, ?41, 54, 178, ?195, ?196, 211, 212.
Trichoprosopon (Trichoprosopon) pallidiventer (Lutz 1905).—107, 107B, 107C, 109, 116, 122, 123, 131, 132, 177, 178, 179, 188, 190, 193, 195, 207, 210, 211, 212.
Trichoprosopon (Trichoprosopon) simile Lane and Cerqueira 1942.—107A, 125, 126.
Trichoprosopon (subgenus A) *ulopus* (Dyar and Knab 1906).—49.
Trichoprosopon sp undetermined.—60, 275.
Uranotaenia (Uranotaenia) apicalis Theobald 1903.—42.
Uranotaenia (Uranotaenia) calosomata group sp B: larval siphon not spiculose, male genitalia as in Howard, Dyar and Knab 1913:plate 38.—2.
Uranotaenia (Uranotaenia) lowii Theobald 1901.—57, 228, 229, 237, 245, 253, 254, 282, 292, 299.
Uranotaenia (Uranotaenia) pallidiventer Theobald 1903.—48.

BRA Species Index

- Uranotaenia (Uranotaenia) pulcherrima* Lynch Arribalzaga 1891.—257.
Uranotaenia (Uranotaenia) sp undetermined.—7, 10, 12, 22, 24, 30, 150.
Wyeomyia (Cruzmyia) dyari Lane and Cerqueira 1942.—234.
Wyeomyia (Dendromyia) ?finlayi Lane and Cerqueira 1942.—241.
Wyeomyia (Dendromyia) ?mystes Dyar 1924.—225, 226.
Wyeomyia (Dendromyia) sp undetermined.—147, 243, 300, 301, 307.
Wyeomyia (Dodecamyia) aphobema group: *aphobema* or related sp.—41, 51, 52.
Wyeomyia (Miamiya) limai Lane and Cerqueira 1942.—106C, 112, 113, 132, 153.
Wyeomyia (Miamiya) ?oblita (Lutz 1904).—197.
Wyeomyia (Miamiya) sp undetermined.—250.
Wyeomyia (Pentemyia) arthrostigma (Lutz 1905).—232, 233, 250.
Wyeomyia (Prosopolepis) sp 26: near *testei* and *ypsipola*.—49, 54.
Wyeomyia (Triamyia) sp undetermined.—145.
Wyeomyia (Wyeomyia) medioalbipes Lutz 1904.—154.
Wyeomyia (Wyeomyia) pertinans group: *medioalbipes* or related sp.—234.
Wyeomyia (subgenus B) *personata* (Lutz 1904).—106C, 117, 131, 178, 197.
Wyeomyia (subgenus E) *argenteorostris* (Bonne-Wepster and Bonne 1920).—41.
Wyeomyia sp undetermined.—47A, 47B.

Code: BRAP

The BRAP collection consists of part of the material routinely collected in Sao Paulo in 1972-74 by Instituto Adolfo Lutz personnel, and given to the "Mosquitoes of Middle America" project by Oscar de Souza Lopes. We have assigned the prefix "BRAP," but the original numbering system has been retained and is as follows: (1) lot number followed by a lower case letter indicates an individual rearing, (2) lot number followed by single digit subplot number indicates an associated male genitalia slide. The collections are apparently all of reared material (some individual, but mostly mass rearings), although in many cases we do not have the associated skins. Most of the material consists of unidentified *Culex (Culex)* adults, and there are undoubtedly more species present in our specimens than are listed here. Since all the collections were made at just a few localities, the UTM grid coordinates or latitude and longitude, the nearest town and elevation are given only in the Locality Index.

The BRAP collections are recognized by the following printed label: //BRA[handwritten P] [handwritten 1-492]/Brasil 7[handwritten 2, 3 or 4]/Mosq Mid Amer//.

BRAP Collection Records

1. Rio Guaratuba; 27 Feb 73. Bamboo trap. *Cx. (Cux.) ?mollis*, *Sa. ?(Sab.)* sp undetermined.
6. " 3 Jul 73. Egg raft in tire. *Cx. (Cux.) mollis*.
8. " " Egg raft in plastic dish. *Cx. (Cux.) mollis*.
10. " " Egg raft in tire. *Cx. (Cux.) mollis*.
16. " 28 Aug 73. Bamboo trap. " *Wy. (Tri.)* sp undetermined.
19. " 26 Aug 73. Aluminum box trap. *Cx. (Cux.) mollis*, *Cx. (Cux.)* sp undetermined.
20. " " Plastic dish. *Cx. (Cux.) mollis*.
33. " 30 Nov 72. Ground pool. *Ae. (Och.) crinifer*.
34. Itapetininga, 28km W of; 22 Nov 72. Bamboo trap. *Cx. (Mcx.) imitator* subgroup, *Hg. (Con.) leucocelaenus*.
48. Casa Grande; 8 Apr 73. Bamboo trap. *Tr. (Trc.) compressum*.
52. " 5 Sept 73. " *Cx. (Cux.)* sp 83.
53. Itapetininga, 28km W of; 25 Sept 73. Tire trap. *Cx. (Lut.) bigoti*.
54. Casa Grande; 12 Sept 73. Bamboo trap. *Cx. (Cux.)* sp undetermined.
68. Itapetininga, 28km W of; Oct 73. Ground pool. *Ur. (Ura.)* sp 7.
74. Casa Grande; 19 Nov 73. Bamboo trap. *Cx. (Cux.) coronator* group.
75. Itapetininga, 28km W of; Oct 73. Ground pool. *Cx. (Cux.) coronator* group.

BRAP Collection Records

76. Casa Grande; 19 Nov 73. Bamboo trap. *Cx. (Cux.)* sp 83, *Cx. (Cux.)* sp undetermined.
 77. Itapetininga, 28km W of; 22-24 Dec 73. Ground pool. *Cx. (Cux.)* sp undetermined.
 79. Rio Guaratuba; 18 Jan 74. Bamboo trap. *Cx. (Cux.) corniger*, *Cx. (Cux.) mollis*.
 92. " 15 Jan 74. " *Cx. (Cux.)* sp undetermined.
 94. " 13 Jan 74. Tire trap. *Cx. (Cux.) coronator* group.
 98. Cotia; 1 Feb 74. Ground pool. *Cx. (Cux.) coronator* group.
 100. " 16 Jan 74. Dam water. *Cx. (Mel.)* sp near *coppenamensis*.
 107. Rio Guaratuba; 11 Mar 74. Tire trap. *Cx. (Cux.) mollis*.
 111. " 10 Mar 74. Aluminum box trap. *Cx. (Cux.) mollis*.
 113. " 12 Mar 74. " " "
 115. " " " " *Cx. (Cux.)* sp undetermined.
 121. " " " " "
 124. " 10 Mar 74. " *Cx. (Cux.)* sp undetermined. "
 126. " 11 Mar 74. Bottle trap. *Cx. (Cux.) mollis*.
 127. " " Bromeliad. *Cx. (Mcx.) pleuristriatus* group.
 130. " 13 Mar 74. Dry banana leaves. *Cx. (Cux.)* sp undetermined.
 132. " 12 Mar 74. Bottle trap. *Cx. (Cux.)* sp undetermined.
 135. Cotia; 18 Mar 74. Aluminum box trap. *Cx. (Cux.) coronator* group, *Cx. (Cux.)* sp undetermined.
 136. " " " *Cx. (Cux.) dolosus* group, "
 137. " 28 Mar 74. Ground pool. *Cx. (Cux.) coronator* group.
 230. Casa Grande; 4 Jun 74. Ground pool. *Cx. (Cux.) coronator* group, *Cx. (Mcx.) ocellatus* group (probable contamination).
 231. Casa Grande; 13 Jun 74. Foliage water. *Cx. (Mcx.) ocellatus* group.
 232. " 19 Jun 74. Larval collection. *Cx. (Cux.) dolosus* group, *Cx. (Cux.)* sp undetermined.
 237. Itapetininga, 28km W of; 25 Jun 74. Dam water. *Cx. (Cux.)* sp undetermined.
 238. " " 24 Jun 74. Ground pool. *Cx. (Cux.) coronator* group.
 239. " " 1 Jun 74. " *Cx. (Cux.)* sp undetermined.
 242. Casa Grande; 3 Jul 74. Bamboo trap. *Cx. (Cux.)* sp undetermined.
 243. Rio Guaratuba; 11 Jun 74. Bottle trap. *Cx. (Cux.) mollis*, *Cx. (Cux.)* sp undetermined.
 244. " 11 Jul 74. Bamboo trap in canopy. *Cx. (Mcx.) pleuristriatus* group.
 246. " " Bamboo trap. *Cx. (Cux.)* sp undetermined.
 247. " 9 Jul 74. Tin can trap. *Cx. (Cux.) mollis*, *Cx. (Cux.)* sp undetermined.
 248. " " Bamboo trap. "
 249. " " " "
 250. " " " "
 251. " 6 Jul 74. Can trap. "
 253. " 7 Jul 74. " *Cx. (Cux.)* sp undetermined.
 254. " 11 Jul 74. Bamboo trap. "
 255. " " " "
 256. " " " "
 257. " 6 Jul 74. Can trap. "
 260. " 11 Jul 74. Bamboo trap. "
 266. " 6 Jul 74. Can trap. "
 271. Casa Grande; 16 Jul 74. Washing tub. *Cx. (Cux.) dolosus* group, *Cx. (Cux.)* sp undetermined.
 275. Rio Guaratuba; 9 Jul 74. Can trap. *Cx. (Cux.) mollis*.
 279. Casa Grande; 24 Jul 74. Bamboo trap. *Cx. (Cux.) brami*, *Cx. (Cux.)* sp undetermined.
 280. Itapetininga, 28km W of; 22 Jul 74. Ground pool. *Cx. (Cux.) coronator* group.
 284. Cotia; 26 Jul 74. Ground pool. *Cx. (Cux.) coronator* group.
 286. " " " "
 292. Casa Grande; 6 Aug 74. Bamboo trap. *Cx. (Cux.) dolosus* group, *Cx. (Cux.)* sp undetermined.
 294. Cotia; 17 Aug 74. Bromeliad. *Cx. (Mcx.)* sp undetermined.
 298. " " Aluminum box trap. *Cx. (Cux.) brami*, *Cx. (Cux.)* sp undetermined.

BRAP Collection Records

299. Rio Guaratuba; 25 Aug 74. Aluminum box trap in canopy. *Cx. (Mcx.) pleuristriatus* group.
 300. " 24 Aug 74. Aluminum box trap. *Cx. (Cux.) mollis*, *Cx. (Cux.)* sp undetermined.
 302. " 25 Aug 74. Bamboo trap. *Cx. (Cux.)* sp undetermined.
 303. " 24 Aug 74. Aluminum box trap. *Cx. (Cux.) mollis*, *Cx. (Cux.)* sp undetermined.
 305. " " " " "
 306. " " " " "
 307. " " " " "
 308. " " " " "
 309. " " " " "
 310. " " " " "
 311. " " " " "
 312. " " " " "
 313. " " " " "
 314. " 26 Aug 74. " " "
 317. " 24 Aug 74. " " "
 318. " " Bamboo trap. " "
 319. " " Aluminum box trap. " "
 320. " " " *Cx. (Cux.)* sp undetermined.
 322. " " " *Cx. (Cux.) mollis*, *Cx. (Cux.)* sp undetermined.
 326. " " " " "
 327. " " " " "
 328. " " " " "
 331. " " " *Cx. (Cux.)* sp undetermined.
 332. " 25 Aug 74. Bamboo trap. *Cx. (Cux.) mollis*, *Cx. (Cux.)* sp undetermined.
 336. " 24 Aug 74. Aluminum box trap. *Cx. (Cux.) dolosus* group, *Cx. (Cux.)* sp undetermined.
 337. Casa Grande; 5 Sept 74. Bamboo trap. *Cx. (Cux.)* sp undetermined.
 339. Cotia; 7 Sept 74. Ground pool. *Cx. (Cux.) mollis*, *Cx. (Cux.)* sp undetermined.
 341. Casa Grande; 4 Sept 74. Can trap. *Cx. (Cux.)* sp undetermined.
 343. Cotia; 7 Sept 74. Larval collection. *Cx. (Cux.) dolosus* group.
 345. Casa Grande; 24 Sept 74. Washing tub. *Cx. (Car.) iridescens*, *Cx. (Cux.)* sp undetermined.
 346. Itapetininga, 28km W of; 2 Oct 74. Dam water. *Cx. (Cux.)* sp undetermined.
 348. Casa Grande; 2 Oct 74. Rockhole. *Cx. (Cux.) coronator* group.
 349. Rio Guaratuba; 15 Oct 74. Bamboo trap in canopy. *Cx. (Mcx.) pleuristriatus* group.
 351. " 13 Oct 74. Tire trap. *Cx. (Cux.) mollis*, *Cx. (Cux.)* sp undetermined.
 352. " 15 Oct 74. Aluminum box trap. *Cx. (Cux.)* sp undetermined.
 353. " " Bamboo trap. *Cx. (Cux.) corniger*, *Cx. (Cux.) mollis*, *Cx. (Cux.)* sp undetermined, *Cx. (Mcx.) pleuristriatus* group, *Cx. (Mcx.) worontzowi* (?contamination).
 355. Cotia; 5-12 Oct 74. Treehole. *Ae. (Pro.) terreus*.
 356. Rio Guaratuba; 12 Oct 74. Aluminum box trap. *Cx. (Cux.) mollis*, *Cx. (Cux.)* sp undetermined.
 357. " " " " "
 358. " " " " "
 359. " " " " "
 360. " " " " "
 361. " " " " "
 362. " " " " "
 363. " 13 Oct 74. " " "
 364. " 12 Oct 74. " " "
 365. " " " " "
 366. " 13 Oct 74. " " "
 367. " " " " "
 368. " 15 Oct 74. " *Cx. (Cux.)* sp undetermined.

BRAP Collection Records

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| 369. | Rio Guaratuba; 13 Oct 74. | Aluminum box trap. | <i>Cx. (Cux.)</i> sp undetermined. |
| 370. | “ | “ | <i>Cx. (Cux.) corniger.</i> |
| 371. | “ 15 Oct 74. | “ | <i>Cx. (Cux.)</i> sp undetermined. |
| 372. | “ 12 Oct 74. | “ | “ |
| 373. | “ 15 Oct 74. | “ | “ |
| 374. | “ 13 Oct 74. | “ | “ |
| 375. | “ | “ | “ |
| 376. | “ 15 Oct 74. | Bamboo trap. | “ |
| 377. | “ | “ | “ |
| 378. | “ 14 Oct 74. | Aluminum box trap in canopy. | <i>Cx. (Cux.)</i> sp undetermined. |
| 379. | “ 15 Oct 74. | Bamboo trap. | <i>Cx. (Cux.)</i> sp undetermined. |
| 380. | “ | “ | “ |
| 381. | “ | “ | “ |
| 383. | “ | Aluminum box trap. | <i>Cx. (Cux.)</i> sp undetermined. |
| 384. | “ | “ | “ |
| 385. | “ | Bamboo trap. | “ |
| 386. | “ 16 Oct 74. | “ | “ |
| 388. | “ 15 Oct 74. | “ | “ |
| 390. | “ 16 Oct 74. | Aluminum box trap. | “ |
| 392. | “ 13 Oct 74. | “ | “ |
| 393. | “ 16 Oct 74. | “ | “ |
| 394. | “ | “ | “ |
| 395. | “ | “ | “ |
| 396. | “ | “ | “ |
| 397. | “ | “ | “ |
| 398. | “ 15 Oct 74. | Bamboo trap. | “ |
| 399. | “ | Aluminum box trap. | “ |
| 400. | “ | Bamboo trap. | “ |
| 401. | “ | Aluminum box trap. | “ |
| 402. | “ 14 Oct 74. | Aluminum box trap in canopy. | <i>Cx. (Cux.)</i> sp undetermined. |
| 403. | “ 15 Oct 74. | Aluminum box trap. | <i>Cx. (Cux.)</i> sp undetermined. |
| 404. | “ | “ | “ |
| 405. | “ 14 Oct 74. | “ | “ |
| 406. | “ | “ | “ |
| 407. | “ 15 Oct 74. | “ | “ |
| 408. | Casa Grande; 29 Oct 74. | Can trap. | <i>Cx. (Cux.)</i> sp undetermined. |
| 409. | “ | Closed bamboo trap. | <i>Cx. (Mcx.) pleuristriatus</i> group. |
| 410. | “ 24 Oct 74. | Bamboo trap. | <i>Cx. (Cux.)</i> sp undetermined. |
| 411. | No data. | <i>Ae. (Och.) crinifer</i> , <i>Ae. (Och.) serratus</i> group, <i>Cx. (Cux.)</i> sp undetermined, <i>Ps. (Jan.) ferox</i> , <i>Ps. (Jan.)</i> sp 7. | |
| 413. | Rio Guaratuba; 12 Nov 74. | Bamboo trap. | <i>Cx. (Cux.)</i> sp undetermined. |
| 414. | No data. | <i>Cx. (Cux.)</i> sp undetermined. | |
| 416. | Rio Guaratuba; 12 Nov 74. | Aluminum box trap. | <i>Cx. (Cux.)</i> sp undetermined. |
| 417. | “ | “ | “ |
| 418. | “ | “ | “ |
| 419. | “ | “ | “ |
| 420. | “ | “ | “ |
| 421. | “ | “ | “ |
| 422. | “ | “ | “ |
| 423. | “ | “ | “ |
| 424. | “ | “ | “ |
| 426. | “ | “ | “ |

BRAP Collection Records

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|------|----------------|------------|--------------------|------------------------------------|
| 427. | Rio Guaratuba; | 12 Nov 74. | Aluminum box trap. | <i>Cx. (Cux.)</i> sp undetermined. |
| 428. | " | " | " | " |
| 429. | " | " | " | " |
| 431. | " | 11 Nov 74. | " | " |
| 432. | " | 10 Nov 74. | " | " |
| 434. | " | 12 Nov 74. | Bamboo trap. | " |
| 435. | " | " | " | " |
| 436. | " | " | " | " |
| 437. | " | " | " | " |
| 438. | " | " | " | " |
| 439. | " | " | " | " |
| 440. | " | 11 Nov 74. | Aluminum box trap. | " |
| 441. | " | " | " | " |
| 442. | " | 12 Nov 74. | " | " |
| 443. | " | " | " | " |
| 444. | " | 11 Nov 74. | " | " |
| 446. | " | 10 Nov 74. | " | " |
| 448. | " | " | " | " |
| 449. | " | " | " | " |
| 450. | " | " | " | " |
| 452. | " | Nov 74. | " | " |
| 453. | " | 12 Nov 74. | " | " |
| 454. | " | " | " | " |
| 455. | " | " | " | " |
| 456. | " | " | " | " |
| 457. | " | " | " | " |
| 458. | " | " | " | " |
| 465. | " | " | " | " |
| 466. | " | 16 Dec 74. | " | " |
| 467. | " | " | " | " |
| 468. | " | " | " | " |
| 469. | " | " | " | " |
| 471. | " | " | " | " |
| 473. | " | " | " | " |
| 474. | " | " | " | " |
| 475. | " | " | " | " |
| 476. | " | " | " | " |
| 477. | " | " | " | " |
| 478. | " | " | " | " |
| 479. | " | 15 Dec 74. | " | " |
| 481. | " | " | " | " |
| 482. | " | " | " | " |
| 483. | " | 17 Dec 74. | " | " |
| 484. | " | " | " | " |
| 485. | " | " | " | " |
| 486. | " | " | " | " |
| 487. | " | " | " | " |
| 488. | " | " | " | " |
| 491. | " | " | " | " |
| 492. | " | " | " | " |

BRAP Locality Index

SAO PAULO

Casa Grande (23KMP0486, about 15km SW of Salesopolis), 800m.—48, 52, 54, 74, 76, 230, 231, 232, 242, 271, 279, 292, 337, 341, 345, 348, 408, 409, 410.

Cotia (23°37'S, 46°56'W, about 20km W of Sao Paulo), vicinity of.—98, 100, 135, 136, 137, 284, 286, 294, 298, 339, 343, 355.

Guaratuba, Rio (river draining Serra do Mar and emptying into sea about 28km NE of Bertioaga), a few km from mouth (23KMP1175), 5m.—1, 6, 8, 10, 16, 19, 20, 33, 79, 92, 94, 107, 111, 113, 115, 121, 124, 126, 127, 130, 132, 243, 244, 246, 247, 248, 249, 250, 251, 253, 254, 255, 256, 257, 260, 266, 275, 299, 300, 302, 303, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 317, 318, 319, 320, 322, 326, 327, 328, 331, 332, 336, 349, 351, 352, 353, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 383, 384, 385, 386, 388, 390, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 413, 416, 417, 418, 419, 420, 421, 422, 423, 424, 426, 427, 428, 429, 431, 432, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 446, 448, 449, 450, 452, 453, 454, 455, 456, 457, 458, 465, 466, 467, 468, 469, 471, 473, 474, 475, 476, 477, 478, 479, 481, 482, 483, 484, 485, 486, 487, 488, 491, 492.

Itapetininga (23°36'S, 48°03'W, about 140km W of Sao Paulo), vicinity of. 28km W of Itapetininga (23°40'S, 48°05'W).—34, 53, 68, 75, 77, 237, 238, 239, 280, 346.

BRAP Species Index

Aedes (Ochlerotatus) crinifer (Theobald 1903).—33, 411.

Aedes (Ochlerotatus) serratus group: *serratus* or related sp.—411.

Aedes (Protomacleaya) terreus (Walker 1856).—355.

Culex (Carrollia) iridescens (Lutz 1905).—345.

Culex (Culex) brami Forattini, Rabello and Lopes 1967.—279, 298.

Culex (Culex) corniger Theobald 1903.—79, 353, 370.

Culex (Culex) coronator group: *coronator*, *usquatus* and/or related sp.—74, 75, 94, 98, 135, 137, 230, 238, 280, 284, 286, 348.

Culex (Culex) dolosus group: *dolosus* or related sp.—136, 232, 271, 292, 336, 343.

Culex (Culex) mollis Dyar and Knab 1906.—?1, 6, 8, 10, 16, 19, 20, 79, 107, 111, 113, 115, 121, 126, 243, 247, 248, 249, 250, 251, 253, 254, 255, 256, 257, 260, 266, 275, 300, 303, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 317, 318, 319, 322, 326, 327, 328, 332, 339, 351, 353, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367.

Culex (Culex) sp 83: near *cuyanus*.—52, 76.

Culex (Culex) sp undetermined.—19, 54, 76, 77, 92, 115, 121, 124, 130, 132, 135, 136, 232, 237, 239, 242, 243, 246, 247, 253, 266, 271, 279, 292, 298, 300, 302, 303, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 317, 318, 319, 320, 322, 326, 327, 328, 331, 332, 336, 337, 339, 341, 345, 346, 351, 352, 353, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 383, 384, 385, 386, 388, 390, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 410, 411, 413, 414, 416, 417, 418, 419, 420, 421, 422, 423, 424, 426, 427, 428, 429, 431, 432, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 446, 448, 449, 450, 452, 453, 454, 455, 456, 457, 458, 465, 466, 467, 468, 469, 471, 473, 474, 475, 476, 477, 478, 479, 481, 482, 483, 484, 485, 486, 487, 488, 491, 492.

Culex (Lutzia) bigoti Bellardi 1862.—53.

Culex (Melanoconion) sp near coppenamensis.—100.

Culex (Melanoconion) ocellatus group: *ocellatus* or related sp.—230 (?contamination), 231.

Culex (Microculex) imitator subgroup.—34.

Culex (Microculex) pleuristriatus group.—127, 244, 299, 349, 353, 409.

Culex (Microculex) worontzowi Pessoa and Galvao 1936.—353 (?contamination).

Culex (Microculex) sp undetermined.—294.

Haemagogus (Conopostegus) leucocelaenus (Dyar and Shannon 1924).—34.

Psorophora (Janthinosoma) ferox (Humboldt 1819).—411.

BRAP Species Index

- Psorophora (Janthinosoma)* sp 7: possibly near *albipes*.—411.
Sabethes ?(*Sabethes*) sp undetermined.—1.
Trichoprosopon (Trichoprosopon) compressum Lutz 1905.—48.
Uranotaenia (Uranotaenia) sp 7: near *bertii*.—68.
Wyeomyia (Triamyia) sp undetermined.—16.

Code: BRB

The BRB collection consists of a large number of adults collected in light traps (and a few in Disney traps) by Thomas H. G. Aitken and Amazonia Toda in 1970 (and a few in 1968). All collections were made at IPEAN (Instituto de Pesquisas e Experimentacao Agropecuarias do Norte, main buildings at 22 MGD840410), an agricultural research institute directly E of Belem (in the state of Para) on Rio Guama, at elevations of 30m or less. With the exception of BRB 43 and 65, all collections were made in the Reserva de Aura (22MGD8940, also known as APEG Forest, in the SE portion of IPEAN on Rio Guama).

The specimens are almost entirely males in poor condition and were sent to us loose in vials without collection numbers. We pointed the majority of the specimens and assigned lot numbers. The specimens are recognized by the following printed label: //BRB[handwritten 1-65]/Belem, Brazil/Mosq Mid Amer//. Since many of the specimens have not been examined, and only a small percentage of the male genitalia have been mounted, there are undoubtedly more species present than are listed here.

The term "varzea" refers to a fresh water swamp subject to tidal fluctuations (at elevations of about 1-10m); "terra firme" refers to higher ground not subject to flooding (at elevations of about 10-30m).

BRB Collection Records

(See introduction above for locality, elevations, and collectors of following collections.)

1. 9 Jan 70. Light trap in terra firme forest at ground level; 1800-2400hrs. *Cx. (Mel.) zeteki* group.
2. 16 Mar 70. Light trap in terra firme forest in canopy (32m above ground); 1800-2400hrs. *Cx. (Mel.) portesi*.
3. 23 Mar 70. Light trap in terra firme forest at ground level and in canopy; 1800-2400hrs. *Cx. (Ads.) amazonensis*, *Cx. (Ads.)* sp undetermined, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) creole*, *Cx. (Mel.) innovator*, *Cx. (Mel.) phlogistus*, *Cx. (Mel.) portesi*, *Cx. (Mel.) vomerifer*, *Cx. (Mel.) ybarmis*, *Cx. (Mel.) zeteki* group, *Cx. (Mel.)* sp 41, *Cx. (Mel.)* sect. *Mel.* sp undetermined, *Ma. (Man.)* sp undetermined, additional unidentified specimens.
4. 7 Apr 70. Light trap in terra firme forest in canopy. *Cx. (Mel.) creole*, *Cx. (Mel.) spissipes*, *Cx. (Mel.) zeteki* group, *Cx. (Mel.)* sect. *Mel.* sp undetermined.
5. 9 Apr 70. Light trap in terra firme forest at ground level and in canopy; 1800-2400hrs. *Ae. (Och.) serratus* group, *An. (Nys.)* sp undetermined, *Cx. (Ads.) amazonensis*, *Cx. (Ads.)* sp undetermined, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) caudatus*, *Cx. (Mel.) creole*, *Cx. (Mel.) eastor*, *Cx. (Mel.) phlogistus*, *Cx. (Mel.) portesi*, *Cx. (Mel.) trigeminatus*, *Cx. (Mel.) vomerifer*, *Cx. (Mel.)* sp 41, *Cx. (Mel.)* sect. *Mel.* spp undetermined, *Cx. (Mcx.) pleuristriatus* group, additional unidentified specimens.
6. 14 Apr 70. Light trap in terra firme forest in canopy; 0000-0600hrs. *Ae. (Och.) dupreei* group ?sp B, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) eastor*, *Cx. (Mel.) phlogistus*, *Cx. (Mel.) pilosus*, *Cx. (Mel.) portesi*, *Cx. (Mel.)* sp 41, *Cx. (Mel.)* sect. *Mel.* sp undetermined, *Cx. (Mel.)* sp undetermined.
7. 16 Apr 70. Light trap in terra firme forest at ground level and in canopy (30m above ground); 1800-2400hrs. *An. (Nys.)* sp undetermined, *Cx. (Ads.) amazonensis*, *Cx. (Ads.)* sp undetermined, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) eastor*, *Cx. (Mel.) portesi*, *Cx. (Mel.) putumayensis*, *Cx. (Mel.) trigeminatus*, *Cx. (Mel.)* sp 41, *Cx. (Mel.)* sect. *Mel.* spp undetermined, *Cx. (Mel.)* spp undetermined, additional unidentified specimens.
8. 21 Apr 70. Light trap in terra firme forest at ground level and in canopy; 0000-0600hrs. *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sect. *Mel.* sp undetermined, *Cx. (Mel.)* sp undetermined.
9. 23 Apr 70. Light trap in terra firme forest at ground level and in canopy (30m above ground); 1800-2400hrs. *Ae. (Och.) dupreei* group ?sp B, *Ae. (Och.) ?fulvus*, *An. (Nys.) triannulatus*, *Cx. (Ads.)*

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amazonensis, Cx. (*Ads.*) sp undetermined, Cx. (*Cux.*) sp undetermined, Cx. (*Mel.*) *albinensis*, Cx. (*Mel.*) *eastor*, Cx. (*Mel.*) *faurani*, Cx. (*Mel.*) *pilosus*, Cx. (*Mel.*) *portesi*, Cx. (*Mel.*) *putumayensis*, Cx. (*Mel.*) *trigeminatus*, Cx. (*Mel.*) *vomerifer*, Cx. (*Mel.*) sp 41, Cx. (*Mel.*) sect. *Mel.* spp undetermined, Cx. (*Mel.*) spp undetermined, Cx. (*Mcx.*) *pleuristriatus* group.

10. 27 May 70. Light trap in terra firme forest at ground level; 0000-0600hrs. Cx. (*Ads.*) *amazonensis*.

11. 28 May 70. Light trap in terra firme forest at ground level and in canopy; 1800-2400hrs. *Ad.* (*Ady.*) *squamipennis*, *Ae.* (*Och.*) *serratus* group, Cx. (*Ads.*) sp undetermined, Cx. (*Cux.*) sp undetermined, Cx. (*Mel.*) *pilosus*, Cx. (*Mel.*) *portesi*, Cx. (*Mel.*) sp 41, Cx. (*Mel.*) sect. *Mel.* spp undetermined, Cx. (*Mel.*) sp undetermined, additional unidentified specimens.

12. 2 Jun 70. Light trap in terra firme forest in canopy; 0000-0600hrs. *Ae.* (*Pro.*) *argyrothorax*, Cx. (*Cux.*) sp undetermined, Cx. (*Mel.*) *portesi*, Cx. (*Mel.*) *vomerifer*.

13. 4 Jun 70. Light trap in terra firme forest at ground level and in canopy; 1800-2400hrs. *Ad.* (*Ady.*) *squamipennis*, *Ae.* (*Och.*) *oligopistus*, *Cq.* (*Rhy.*) *fasciolata*, Cx. (*Ads.*) sp undetermined, Cx. (*And.*) *conservator*, Cx. (*Cux.*) sp undetermined, Cx. (*Mel.*) *pilosus*, Cx. (*Mel.*) *portesi*, Cx. (*Mel.*) sp 41, Cx. (*Mel.*) sect. *Mel.* sp undetermined, Cx. (*Mel.*) spp undetermined, Cx. (*Mcx.*) *pleuristriatus* group, *Ma.* (*Man.*) sp undetermined.

14. 9 Jun 70. Light trap in terra firme forest in canopy; 0000-0600hrs. *Ad.* (*Ady.*) *squamipennis*, *Ae.* (*Och.*) *serratus* group, *Cq.* (*Rhy.*) *fasciolata*, Cx. (*Cux.*) sp undetermined, Cx. (*Mel.*) *faurani*, Cx. (*Mel.*) sp 41, Cx. (*Mel.*) sp undetermined.

15. 11 Jun 70. Light trap in terra firme forest at ground level and in canopy; 1800-2400hrs. *Ad.* (*Ady.*) *squamipennis*, *Ae.* (*Pro.*) *argyrothorax*, *An.* (*Ano.*) *mediopunctatus*, *Cq.* (*Rhy.*) *fasciolata*, Cx. (*Cux.*) sp undetermined, Cx. (*Mel.*) *portesi*, Cx. (*Mel.*) ?sp 39, Cx. (*Mel.*) sp 41, Cx. (*Mel.*) sect. *Mel.* sp undetermined, Cx. (*Mel.*) spp undetermined, additional unidentified specimens.

16. 16 Jun 70. Light trap in terra firme forest in canopy; 0000-0600hrs. Cx. (*Cux.*) sp undetermined, Cx. (*Mel.*) *portesi*, Cx. (*Mel.*) sp undetermined.

17. 18 Jun 70. Light trap in terra firme forest at ground level and in canopy; 1800-2400hrs. Cx. (*Cux.*) sp undetermined, Cx. (*Mel.*) *portesi*, Cx. (*Mel.*) sp 41, Cx. (*Mel.*) sect. *Mel.* spp undetermined, Cx. (*Mel.*) sp undetermined, Cx. (*Mcx.*) *stonei* group.

18. 23 Jun 70. Light trap in terra firme forest in canopy; 0000-0600hrs. Cx. (*Cux.*) sp undetermined, Cx. (*Mel.*) *portesi*, Cx. (*Mel.*) sp 41.

19. 26 Jun 70. Light trap in terra firme forest at ground level and in canopy; 1800-2400hrs. *Ae.* (*Och.*) *oligopistus*, *Cq.* (*Rhy.*) *fasciolata*, Cx. (*Cux.*) spp undetermined, Cx. (*Mel.*) *eastor*, Cx. (*Mel.*) *ernanii*, Cx. (*Mel.*) sp 41, Cx. (*Mel.*) sect. *Mel.* sp undetermined, Cx. (*Mel.*) spp undetermined, Cx. (*Mcx.*) *pleuristriatus* group, additional unidentified specimens.

20. 7 Jul 70. Light trap in terra firme forest at ground level and in canopy; 0000-0600hrs. *Ad.* (*Ady.*) *squamipennis*, Cx. (*Cux.*) spp undetermined, Cx. (*Mel.*) *pilosus* group, Cx. (*Mel.*) *portesi*, Cx. (*Mel.*) *productus*, Cx. (*Mel.*) sp undetermined, Cx. (*Mcx.*) *pleuristriatus* group, *Ur.* (*Ura.*) *hystera*.

21. 9 Jul 70. Light trap in terra firme forest at ground level and in canopy; 1800-2400hrs. *Ad.* (*Ady.*) *squamipennis*, *Cq.* (*Rhy.*) *fasciolata*, Cx. (*Cux.*) sp undetermined, Cx. (*Mel.*) *eastor*, Cx. (*Mel.*) *portesi*, Cx. (*Mel.*) sect. *Mel.* spp undetermined, Cx. (*Mel.*) sp undetermined, *Ma.* (*Man.*) sp undetermined.

22. 15 Jul 70. Light trap in terra firme forest in canopy; 0000-0600hrs. *Ae.* (*Och.*) *serratus* group, Cx. (*Mel.*) *caudelli*, Cx. (*Mel.*) sp 41, Cx. (*Mel.*) sect. *Mel.* sp undetermined, Cx. (*Mel.*) sp undetermined.

23. 16 Jul 70. Light trap in terra firme forest at ground level and in canopy; 1800-2400hrs. *Ad.* (*Ady.*) *squamipennis*, *Ae.* (*Och.*) *serratus* group, Cx. (*Cux.*) sp undetermined, Cx. (*Mel.*) *caudelli* group, Cx. (*Mel.*) sp undetermined, additional unidentified specimens.

24. 21 Jul 70. Light trap in terra firme forest in canopy; 0000-0600hrs. *Ad.* (*Ady.*) *squamipennis*, *Ae.* (*Och.*) *oligopistus*, *Cq.* (*Rhy.*) *fasciolata*, Cx. (*Cux.*) sp undetermined, Cx. (*Mel.*) sp 41, Cx. (*Mel.*) spp undetermined, Cx. (*Mcx.*) *pleuristriatus* group.

25. 24 Jul 70. Light trap in terra firme forest at ground level and in canopy; 1800-2400hrs. *Ad.* (*Ady.*) *squamipennis*, *Ae.* (*Pro.*) *terrens* group, *Cq.* (*Rhy.*) *fasciolata*, Cx. (*Ads.*) sp undetermined, Cx.

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- (*Cux.*) sp undetermined, *Cx. (Mel.) albinensis*, *Cx. (Mel.) caudelli*, *Cx. (Mel.) eastor*, *Cx. (Mel.) portesi*, *Cx. (Mel.) putumayensis*, *Cx. (Mel.) vomerifer*, *Cx. (Mel.) ?sp 39*, *Cx. (Mel.) sp 41*, *Cx. (Mel.)* sect. *Mel.* spp undetermined, *Cx. (Mel.)* spp undetermined, additional unidentified specimens.
26. 28 Jul 70. Light trap in terra firme forest at ground level and in canopy; 0000-0600hrs. *Ae. (Och.) ?fulvus*, *Ae. (Och.) serratus* group, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) caudelli*, *Cx. (Mel.) portesi*, *Cx. (Mel.) vomerifer*, *Cx. (Mel.) sp 41*, *Cx. (Mel.)* sect. *Mel.* sp undetermined, *Cx. (Mel.)* spp undetermined, *Cx. (Mcx.) pleuristriatus* group, *Ma. (Man.)* sp undetermined.
27. 30 Jul 70. Light trap in terra firme forest at ground level and in canopy; 1800-2400hrs. *Cq. (Rhy.) fasciolata*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) eastor*, *Cx. (Mel.) portesi*, *Cx. (Mel.) putumayensis*, *Cx. (Mel.) sp 41*, *Cx. (Mel.)* spp undetermined, *Ur. (Ura.) hystera*, additional unidentified specimens.
28. 4 Aug 70. Light trap in terra firme forest at ground level and in canopy; 0000-0600hrs. *Ad. (Ady.) squamipennis*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) caudelli*, *Cx. (Mel.)* sect. *Mel.* sp undetermined, *Cx. (Mel.)* sp undetermined.
29. 6 Aug 70. Light trap in terra firme forest at ground level and in canopy; 1800-2400hrs. *Ad. (Ady.) squamipennis*, *Ae. (Och.) serratus* group, *Cq. (Rhy.) fasciolata*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) contei*, *Cx. (Mel.) eastor*, *Cx. (Mel.) portesi*, *Cx. (Mel.) putumayensis*, *Cx. (Mel.) vomerifer*, *Cx. (Mel.) sp 41*, *Cx. (Mel.)* sect. *Mel.* sp undetermined, *Cx. (Mel.)* spp undetermined, *Cx. (Mcx.) stonei* group, *Ma. (Man.)* sp undetermined, additional unidentified specimens.
30. 12 Aug 70. Light trap in terra firme forest in canopy; 0000-0600hrs. *Ad. (Ady.) squamipennis*, *Cq. (Rhy.) fasciolata*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) vomerifer*, *Cx. (Mel.)* sp undetermined, *Ur. (Ura.) hystera*, *Ur. (Ura.) leucoptera*, *Ur. (Ura.) pallidoventer*.
31. 13 Aug 70. Light trap in terra firme forest in canopy; 1800-2400hrs. *Ad. (Ady.) squamipennis*, *Cq. (Rhy.) fasciolata*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) eastor*, *Cx. (Mel.) portesi*, *Cx. (Mel.)* spp undetermined, *Cx. (Mcx.) pleuristriatus* group.
32. 20 Aug 70. Light trap in terra firme forest at ground level and in canopy; 1800-2400hrs. *Ad. (Ady.) squamipennis*, *An. (Ano.) mediopunctatus*, *Cq. (Rhy.) fasciolata*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) eastor*, *Cx. (Mel.) portesi*, *Cx. (Mel.) putumayensis*, *Cx. (Mel.) vomerifer*, *Cx. (Mel.)* sp undetermined, *Cx. (Mcx.) pleuristriatus* group.
33. 25 Aug 70. Light trap in terra firme forest at ground level and in canopy; 0000-0600hrs. *Ad. (Ady.) squamipennis*, *Ae. (Och.) serratus* group, *Cq. (Rhy.) fasciolata*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) caudelli*, *Cx. (Mel.) portesi*, *Cx. (Mel.) putumayensis*, *Cx. (Mel.) vomerifer*, *Cx. (Mel.) sp 41*, *Cx. (Mel.)* sect. *Mel.* sp undetermined, *Cx. (Mel.)* sp undetermined, *Cx. (Mcx.) pleuristriatus* group, *Cx. (Mcx.) stonei* group, *Ma. (Man.)* sp undetermined.
34. 27 Aug 70. Light trap in terra firme forest at ground level and in canopy; 1800-2400hrs. *Ad. (Ady.) squamipennis*, *Ae. (Och.) dupreei* group, *Ae. (Och.) oligopistus*, *Ae. (Och.) serratus* group, *Cq. (Rhy.) fasciolata*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) eastor*, *Cx. (Mel.) faurani*, *Cx. (Mel.) pilosus* group, *Cx. (Mel.) portesi*, *Cx. (Mel.) productus*, *Cx. (Mel.) ?putumayensis*, *Cx. (Mel.) ?sp 39*, *Cx. (Mel.)* sect. *Mel.* spp undetermined, *Cx. (Mel.)* spp undetermined, *Cx. (Mcx.) pleuristriatus* group.
35. 31 Aug 70. Adults in terra firme forest in canopy (20m above ground); 1240-1250hrs. *Sa. (Sab.) ?belisarioi*.
36. 1 Sept 70. Light trap in terra firme forest at ground level and in canopy; 0000-0600hrs. *Ad. (Ady.) squamipennis*, *Ae. (Och.) dupreei* group, *Ae. (Och.) oligopistus*, *Ae. (Och.) serratus* group, *Cq. (Rhy.) fasciolata*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) caudelli*, *Cx. (Mel.) eastor*, *Cx. (Mel.) pilosus* group, *Cx. (Mel.) portesi*, *Cx. (Mel.) vomerifer*, *Cx. (Mel.) sp 41*, *Cx. (Mel.)* spp undetermined, *Cx. (Mcx.) pleuristriatus* group, *Ma. (Man.)* sp undetermined.
37. 3 Sept 70. Light trap in terra firme forest at ground level and in canopy; 1800-2400hrs. *Ae. (Och.) oligopistus*, *Cq. (Rhy.) fasciolata*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) caudelli*, *Cx. (Mel.) eastor*, *Cx. (Mel.) pilosus* group, *Cx. (Mel.) portesi*, *Cx. (Mel.) putumayensis*, *Cx. (Mel.) vomerifer*, *Cx. (Mel.)* sect. *Mel.* spp undetermined, *Cx. (Mel.)* spp undetermined, *Cx. (Mcx.) pleuristriatus* group.
38. 10 Sept 70. Light trap in terra firme forest in canopy; 1800-2400hrs. *Cq. (Rhy.) fasciolata*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) pilosus* group, *Cx. (Mel.) portesi*.

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39. 16 Sept 70. Light trap in terra firme forest in canopy; 0000-0600hrs. *Ae. (Och.) serratus* group, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) portesi*.
40. 17 Sept 70. Light trap in terra firme forest at ground level and in canopy; 1800-2400hrs. *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) vomerifer*, *Cx. (Mel.)* sp 41, *Cx. (Mel.)* sect. *Mel.* sp undetermined, *Cx. (Mel.)* spp undetermined.
41. 22 Sept 70. Light trap in terra firme forest at ground level and in canopy; 0000-0600hrs. *Ae. (Och.) dupreei* group, *Ae. (Och.) serratus* group, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) caudelli* group, *Cx. (Mel.) eastor*, *Cx. (Mel.) pilosus* group, *Cx. (Mel.) portesi*, *Cx. (Mel.) vomerifer*, *Cx. (Mel.)* ?sp 39, *Cx. (Mel.)* sp 41, *Cx. (Mel.)* sect. *Mel.* spp undetermined, *Cx. (Mel.)* spp undetermined, *Cx. (Mcx.) pleuristriatus* group.
42. 24 Sept 70. Light trap in terra firme forest at ground level and in canopy (30m above ground); 1800-2400hrs. *Ae. (Och.) dupreei* group, *Ae. (Och.) oligopistus*, *Ae. (Och.) serratus* group, *An. (Ano.) intermedius*, *An. (Nys.)* sp undetermined, *Cq. (Rhy.) fasciolata*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) portesi*, *Cx. (Mel.)* sp 41, *Cx. (Mel.)* sp undetermined, *Cx. (Mcx.) pleuristriatus* group, *Ps. (Jan.) ferox*.
43. "Guana River Pump Station"; 29-30 Sept 70. Light trap. *Ae. (Och.) oligopistus*, *Ae. (subg. A) hortator*, *An. (Ano.)* sp undetermined, *An. (Nys.) nuneztovari*, *Cq. (Rhy.) fasciolata*, *Co.* sp undetermined, *Cx. (Cux.) corniger*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) chrysonotum*, *Cx. (Mel.) contei*, *Cx. (Mel.) eastor*, *Cx. (Mel.)* ?*plectoporpe*, *Cx. (Mel.)* ?sp 39, *Cx. (Mel.)* sp undetermined, *Lz.* spp undetermined, *Ur. (Ura.) briseis*, *Ur. (Ura.) lowii*, *Ur. (Ura.) pulcherrima*.
44. 6 Oct 70. Light trap in terra firme forest at ground level and in canopy; 0000-0600hrs. *Ae. (Och.) serratus* group, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) portesi*, *Cx. (Mel.) spissipes*, *Cx. (Mel.) vomerifer*, *Cx. (Mel.)* sp 41, *Cx. (Mel.)* sp undetermined.
45. 8 Oct 70. Light trap in terra firme forest at ground level and in canopy; 1800-2400hrs. *Ae. (Och.) dupreei* group, *Ae. (Och.) oligopistus*, *Ae. (Och.) serratus* group, *An. (Ano.) intermedius*, *Cq. (Rhy.) fasciolata*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) eastor*, *Cx. (Mel.) portesi*, *Cx. (Mel.) productus*, *Cx. (Mel.) vomerifer*, *Cx. (Mel.)* ?sp 39, *Cx. (Mel.)* sp 41, *Cx. (Mel.)* sect. *Mel.* spp undetermined, *Cx. (Mel.)* spp undetermined, *Cx. (Mcx.) pleuristriatus* group, *Ma. (Man.)* sp undetermined.
46. 14 Oct 70. Light trap in terra firme forest in canopy; 0000-0600hrs. *Ae. (Och.) serratus* group, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) pilosus* group, *Cx. (Mel.) portesi*, *Cx. (Mel.)* sp undetermined.
47. 15 Oct 70. Light trap in terra firme forest at ground level and in canopy; 1800-2400hrs. *Ad. (Ady.) squamipennis*, *Ae. (Och.) serratus* group, *Cx. (Ads.)* sp undetermined, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) eastor*, *Cx. (Mel.) portesi*, *Cx. (Mel.) putumayensis*, *Cx. (Mel.) vomerifer*, *Cx. (Mel.)* sect. *Mel.* spp undetermined, *Cx. (Mel.)* sp undetermined, *Cx. (Mcx.) pleuristriatus* group.
48. 20 Oct 70. Light trap in terra firme forest at ground level; 0000-0600hrs. *Ae. (Och.) serratus* group, *Cx. (Ads.)* sp undetermined, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) portesi*, *Cx. (Mel.)* sp 41, *Cx. (Mel.)* sect. *Mel.* sp undetermined, *Cx. (Mel.)* sp undetermined.
49. 22 Oct 70. Light trap in terra firme forest at ground level and in canopy; 1800-2400hrs. *Ad. (Ady.) squamipennis*, *Ae. (Och.) dupreei* group, *Ae. (Och.) oligopistus*, *Ae. (Och.) serratus* group, *Cq. (Rhy.) fasciolata*, *Cx. (Ads.)* sp undetermined, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) eastor*, *Cx. (Mel.) pilosus* group, *Cx. (Mel.) portesi*, *Cx. (Mel.) vomerifer*, *Cx. (Mel.)* ?sp 39, *Cx. (Mel.)* sect. *Mel.* sp undetermined, *Cx. (Mel.)* spp undetermined, *Cx. (Mcx.) pleuristriatus* group, *Ma. (Man.)* sp undetermined.
50. 27 Oct 70. Light trap in terra firme forest in canopy; 0000-0600hrs. *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) portesi*, *Cx. (Mel.) putumayensis*, *Cx. (Mel.) vomerifer*, *Cx. (Mel.)* sp 41, *Cx. (Mel.)* sp undetermined, *Cx. (Mcx.) pleuristriatus* group, *Cx. (Mcx.) stonei* group.
51. 29 Oct 70. Light trap in terra firme forest at ground level and in canopy; 1800-2400hrs. *Ad. (Ady.) squamipennis*, *Ae. (Och.) dupreei* group, *Ae. (Och.) serratus* group, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) portesi*, *Cx. (Mel.) putumayensis*, *Cx. (Mel.) vomerifer*, *Cx. (Mel.)* sp 41.
52. 3 Nov 70. Light trap in terra firme forest in canopy (32m above ground); 0000-0600hrs. *Ad. (Ady.) squamipennis*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) portesi*, *Cx. (Mel.) spissipes*, *Cx. (Mel.) vomerifer*.

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53. 5 Nov 70. Light trap in terra firme forest at ground level and in canopy (32m above ground); 1800-2400hrs. *Ad. (Ady.) squamipennis*, *Ae. (Och.) serratus* group, *Cq. (Rhy.) fasciolata*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) eastor*, *Cx. (Mel.) portesi*, *Cx. (Mel.) productus*, *Cx. (Mel.) putumayensis*, *Cx. (Mel.) vomerifer*, *Cx. (Mel.) ?sp 39*, *Cx. (Mel.)* sp undetermined, *Cx. (Mcx.) pleuristriatus* group.

54. 6 Nov 68. Light trap in terra firme and varzea forest in canopy. *Ae. (Och.) oligopistus*, *Ae. (Och.) serratus* group, *An. (Nys.) nuneztovari*, *Cx. (Ads.)* sp undetermined, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) eastor*, *Cx. (Mel.) pilosus* group, *Cx. (Mel.) portesi*, *Cx. (Mel.)* sp 41, *Cx. (Mel.)* sect. *Mel.* spp undetermined, *Cx. (Mel.)* spp undetermined, *Cx. (Mcx.) pleuristriatus* group, *Ur. (Ura.) nataliae*.

55. 10 Nov 70. Light trap in terra firme forest in canopy; 0000-0600hrs. *Ad. (Ady.) squamipennis*, *Cx. (Cux.)* sp undetermined.

56. 12 Nov 68. Light trap in terra firme and varzea forest at ground level. *Ae. (Och.) dupreei* group, *Ae. (Och.) oligopistus*, *Ae. (Och.) serratus* group, *Cx. (Ads.)* sp undetermined, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) eastor*, *Cx. (Mel.) ?portesi*, *Cx. (Mel.)* sp 41, *Cx. (Mel.)* spp undetermined.

57. 12 Nov 70. Light trap in terra firme forest at ground level and in canopy; 1800-2400hrs. *Cx. (Ads.)* sp undetermined, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp undetermined, *Cx. (Mcx.) pleuristriatus* group.

58. 15 Nov 68. Light trap in varzea forest in canopy. *Ae. (Och.) serratus* group, *An. (Nys.) nuneztovari*, *Cx. (Ads.)* sp undetermined, *Cx. (And.) originator*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) caudelli* group, *Cx. (Mel.) eastor*, *Cx. (Mel.) pilosus* group, *Cx. (Mel.) portesi*, *Cx. (Mel.) vomerifer*, *Cx. (Mel.) ?sp 39*, *Cx. (Mel.)* sp 41, *Cx. (Mel.)* sect. *Mel.* sp undetermined, *Cx. (Mel.)* spp undetermined, *Cx. (Mcx.) pleuristriatus* group, *Ur. (Ura.) geometrica*.

59. 17 Nov 70. Light trap in terra firme forest in canopy (35m above ground); 0000-0600hrs. *Ae. (Och.) serratus* group, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) eastor*, *Cx. (Mel.) pilosus* group.

60. 19 Nov 70. Light trap in terra firme forest at ground level and in canopy (35m above ground); 1800-2400hrs. *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) eastor*, *Cx. (Mel.) faurani*, *Cx. (Mel.) portesi*, *Cx. (Mel.) vomerifer*, *Cx. (Mel.)* sp 41.

61. 20 Nov 68. Light trap in terra firme and varzea forest at ground level. *Ae. (Och.) serratus* group, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) caudelli* group, *Cx. (Mel.) eastor*, *Cx. (Mel.)* sp 41, *Cx. (Mel.)* sect. *Mel.* sp undetermined, *Cx. (Mel.)* spp undetermined.

62. 21 Nov 68. Light trap in terra firme and varzea forest in canopy. *Ae. (Och.) serratus* group, *An. (Nys.) ?nuneztovari*, *Cx. (Ads.)* sp undetermined, *Cx. (And.) originator*, *Cx. (Cux.) corniger*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp near *coppenamensis*, *Cx. (Mel.) eastor*, *Cx. (Mel.) portesi*, *Cx. (Mel.) putumayensis*, *Cx. (Mel.) spissipes*, *Cx. (Mel.) vomerifer*, *Cx. (Mel.) ?sp 39*, *Cx. (Mel.)* sp 41, *Cx. (Mel.)* sect. *Mel.* sp undetermined, *Cx. (Mel.)* spp undetermined, *Cx. (Mcx.) pleuristriatus* group, *Ur. (Ura.) nataliae*.

63. 25 Nov 68. Light trap in terra firme and varzea forest at ground level. *Cx. (Ads.)* sp undetermined, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) caudelli* group, *Cx. (Mel.) eastor*, *Cx. (Mel.) vomerifer*, *Cx. (Mel.) ?sp 39*, *Cx. (Mel.)* sp 41, *Cx. (Mel.)* sect. *Mel.* sp undetermined, *Cx. (Mel.)* sp undetermined, *Ur. (Ura.) nataliae*, *Ur. (Ura.) pallidoventer*.

64. 27 Nov 68. Light trap in varzea forest in canopy. *An. (Nys.) ?nuneztovari*, *Cx. (Ads.)* sp undetermined, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) comatus*, *Cx. (Mel.) eastor*, *Cx. (Mel.) portesi*, *Cx. (Mel.) vomerifer*, *Cx. (Mel.)* sp 41, *Cx. (Mel.)* sect. *Mel.* sp undetermined, *Cx. (Mel.)* sp undetermined, *Cx. (Mcx.) pleuristriatus* group, *Ur. (Ura.) pulcherrima*.

65. Various localities at IPEAN; various dates in 1970. Mixed collections of adults from light traps and Disney traps in alcohol. Specimens not identified.

BRB Species Index

Aedeomyia (Aedeomyia) squamipennis (Lynch Arribalzaga 1878).—11, 13, 14, 15, 20, 21, 23, 24, 25, 28, 29, 30, 31, 32, 33, 34, 36, 47, 49, 51, 52, 53, 55.

Aedes (Ochlerotatus) dupreei group ?sp B: near *hastatus* and *eucephalaeus*.—6, 9.

Aedes (Ochlerotatus) dupreei group: *oligopistus*, sp B or related sp.—34, 36, 41, 42, 45, 49, 51, 56.

BRB Species Index

- Aedes (Ochlerotatus) ?fulvus* (Wiedemann 1828).—9, 26.
Aedes (Ochlerotatus) oligopistus Dyar 1918.—13, 19, 24, 34, 36, 37, 42, 43, 45, 49, 54, 56.
Aedes (Ochlerotatus) serratus group: *nubilus*, *serratus* and/or related sp.—5, 11, 14, 22, 23, 26, 29, 33, 34, 36, 39, 41, 42, 44, 45, 46, 47, 48, 49, 51, 53, 54, 56, 58, 59, 61, 62.
Aedes (Protomacleaya) argyrothorax Bonne-Wepster and Bonne 1920.—12, 15.
Aedes (Protomacleaya) terreus group: *argyrothorax*, *braziliensis* or related sp.—25.
Aedes (subgenus A) *hortator* Dyar and Knab 1907.—43.
Anopheles (Anopheles) intermedius (Peryassu 1908).—42, 45.
Anopheles (Anopheles) mediopunctatus (Theobald 1903).—15, 32.
Anopheles (Anopheles) sp undetermined.—43.
Anopheles (Nyssorhynchus) nuneztovari Gabaldon 1940.—43, 54, 58, ?62, ?64.
Anopheles (Nyssorhynchus) triannulatus (Neiva and Pinto 1922).—9.
Anopheles (Nyssorhynchus) sp undetermined.—5, 7, 42.
Coquillettidia (Rhynchotaenia) fasciolata (Lynch Arribalzaga 1891).—13, 14, 15, 19, 21, 24, 25, 27, 29, 30, 31, 32, 33, 34, 36, 37, 38, 42, 43, 45, 49, 53.
Corethrella sp undetermined.—43.
Culex (Aedinus) amazonensis (Lutz 1905).—3, 5, 7, 9, 10.
Culex (Aedinus) sp undetermined.—3, 5, 7, 9, 11, 13, 25, 47, 48, 49, 54, 56, 57, 58, 62, 63, 64.
Culex (Anoedioporpa) conservator Dyar and Knab 1906.—13.
Culex (Anoedioporpa) originator Gordon and Evans 1922.—58, 62.
Culex (Culex) corniger Theobald 1903.—43, 62.
Culex (Culex) sp undetermined.—3, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64.
Culex (Melanoconion) albinensis Bonne-Wepster and Bonne 1920.—9, 25.
Culex (Melanoconion) caudatus Clastrier 1970.—5.
Culex (Melanoconion) caudelli (Dyar and Knab 1906).—22, 25, 26, 28, 33, 36, 37.
Culex (Melanoconion) caudelli group: *caudelli* and/or related sp.—23, 41, 58, 61, 63.
Culex (Melanoconion) chrysonotum Dyar and Knab 1908.—43.
Culex (Melanoconion) comatus Senevet and Abonnenc 1939.—64.
Culex (Melanoconion) contei Duret 1968.—29, 43.
Culex (Melanoconion) sp near *coppenamensis*.—62.
Culex (Melanoconion) creole Anduze 1949.—3, 4, 5.
Culex (Melanoconion) eastor Dyar 1920.—5, 6, 7, 9, 19, 21, 25, 27, 29, 31, 32, 34, 36, 37, 41, 43, 45, 47, 49, 53, 54, 56, 58, 59, 60, 61, 62, 63, 64.
Culex (Melanoconion) ernanii Duret 1968.—19.
Culex (Melanoconion) faurani Duret 1968.—9, 14, 34, 60.
Culex (Melanoconion) innovator Evans 1924.—3.
Culex (Melanoconion) phlogistus Dyar 1920.—3, 5, 6.
Culex (Melanoconion) pilosus (Dyar and Knab 1906).—6, 9, 11, 13.
Culex (Melanoconion) pilosus group: *innovator*, *pilosus* and/or related sp.—20, 34, 36, 37, 38, 41, 46, 49, 54, 58, 59.
Culex (Melanoconion) ?plectoporce Root 1927.—43.
Culex (Melanoconion) portesi Senevet and Abonnenc 1941.—2, 3, 5, 6, 7, 9, 11, 12, 13, 15, 16, 17, 18, 20, 21, 25, 26, 27, 29, 31, 32, 33, 34, 36, 37, 38, 39, 41, 42, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, ?56, 58, 60, 62, 64.
Culex (Melanoconion) productus Senevet and Abonnenc 1939.—20, 34, 45, 53.
Culex (Melanoconion) putumayensis Matheson 1934.—7, 9, 25, 27, 29, 32, 33, ?34, 37, 47, 50, 51, 53, 62.
Culex (Melanoconion) spissipes (Theobald 1903).—4, 44, 52, ?62.
Culex (Melanoconion) trigeminatus Clastrier 1970.—5, 7, 9.
Culex (Melanoconion) vomerifer Komp 1932.—3, 5, 9, 12, 25, 26, 29, 30, 32, 33, 36, 37, 40, 41, 44, 45, 47, 49, 50, 51, 52, 53, 58, 60, 62, 63, 64.

BRB Species Index

- Culex (Melanoconion) ybarmis* Dyar 1920.—3.
Culex (Melanoconion) zeteki group: *zeteki* or related sp.—1, 3, 4.
Culex (Melanoconion) ?sp 39: near *epanastasis*, possibly Type G of Galindo 1969:85.—15, 25, 34, 41, 43, 45, 49, 53, 58, 62, 63.
Culex (Melanoconion) sp 41: southern form of *taeniopus* of authors.—3, 5, 6, 7, 9, 11, 13, 14, 15, 17, 18, 19, 22, 24, 25, 26, 27, 29, 33, 36, 40, 41, 42, 44, 45, 48, 50, 51, 54, 56, 58, 60, 61, 62, 63, 64.
Culex (Melanoconion) section *Melanoconion*: *dunni*, *ensiformis*, *trigeminatus*, *zeteki* and/or related sp.—3, 4, 5, 6, 7, 8, 9, 11, 13, 15, 17, 19, 21, 22, 25, 26, 28, 29, 33, 34, 37, 40, 41, 45, 47, 48, 49, 54, 58, 61, 62, 63, 64.
Culex (Melanoconion) sp undetermined.—6, 7, 8, 9, 11, 13, 14, 15, 16, 17, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 36, 37, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 53, 54, 56, 57, 58, 61, 62, 63, 64.
Culex (Microculex) pleuristriatus group: *pleuristriatus* or related sp.—5, 9, 13, 19, 20, 24, 26, 31, 32, 33, 34, 36, 37, 41, 42, 45, 47, 49, 50, 53, 54, 57, 58, 62, 64.
Culex (Microculex) stonei group: *shopei*, *stonei* or related sp.—17, 29, 33, 50.
Lutzomiops sp undetermined.—43.
Mansonia (Mansonia) sp undetermined.—3, 13, 21, 26, 29, 33, 36, 45, 49.
Psorophora (Janthinosoma) ferox (Humboldt 1819).—42.
Sabethes (Sabethes) ?belisarioi Neiva 1908.—35.
Uranotaenia (Uranotaenia) briseis Dyar 1925.—43.
Uranotaenia (Uranotaenia) geometrica Theobald 1901.—58.
Uranotaenia (Uranotaenia) hystera Dyar and Knab 1913.—20, 27, 30.
Uranotaenia (Uranotaenia) leucoptera (Theobald 1907).—30.
Uranotaenia (Uranotaenia) lowii Theobald 1901.—43.
Uranotaenia (Uranotaenia) nataliae Lynch Arribalzaga 1891.—54, 62, 63.
Uranotaenia (Uranotaenia) pallidoverter Theobald 1903.—30, 63.
Uranotaenia (Uranotaenia) pulcherrima Lynch Arribalzaga 1891.—43, 64.

ECUADOR

Code: ECU

The collections from Ecuador are recognized by one of the following two printed labels: //ECU [handwritten 1-27, 100-174, 176-178]/Ecuador 65-66[modified to 68 or 69 for 176, 177, and to 38 for 178]/Mosq Mid Amer//, //ECU[handwritten 179-232]/Ecuador 69-70[modified to 72 for 179-184, and to 74 for 185-232]/Mosq Mid Amer//. Miscellaneous material from the collections of W.H.W. Komp (code ECUK) is not recorded at this time, but will probably be covered in a later publication.

Collections ECU 1-27 include a large number of interesting and valuable specimens collected for us by Luis E. Pena G. However, these lots often consist of a mixture of several different types of collections with incomplete or apparently erroneous data. Also, attention should be brought to the following contaminations: ECU 9 (larval collection from treehole) includes rearings of temporary ground pool-breeding species and wild-caught adults; ECU 14 (larval collection from artificial container) includes many wild-caught adults probably from ECU 19; and ECU 118 (larval collection from aroid leaf axils) includes rearings of bamboo-breeding species probably from ECU 114. Usually such contaminations are eliminated from our collection records, but in this case there are so many important specimens involved that we have decided to treat them as we have.

Collections ECU 185-232 (our numbers) were sent to us by W. Daniel Sudia, CDC, Fort Collins, Colorado, with very scanty and confusing data. They are part of the specimens collected by Donald J. Pletsch in May 1974. These specimens were in very poor condition and associations between immatures and adults from the same collection, or between males and genitalia slides were not indicated. Thus, both the collection data and identifications for these collections are of little value.

The elevations for those localities that are *not* designated by UTM grid coordinates are only approximate and may be in error by 200m or more.

Maps and Gazetteers Used for ECU

- Ecuador Mapa Politico 1:2,000,000, El Instituto Geografico Militar, 1971.
 Ecuador, Regiones Litoral e Interandina 1:1,000,000, Publicistas Sudamericanos, Guayaquil, 1959.
 World 1:1,000,000, series 1301; sheets NA 17, NA 18, SA 17, SA 18, ed. 1-AMS; sheet SB 17, ed. 2-AMS.
 Ecuador 1:50,000, series J722, sheets 0766-2, -3, -4, 0767-2, 0769-2, 0865-1, -4, 0866-1, 0966-3, -4, ed. 1-AMS or 1-TPC.
 Santiago de Guayaquil 1:15,000, V. M. Granado G., Guayaquil.
 Ecuador City Maps 1:10,000, series J922, sheet Guayaquil, ed. 1-TPC.
 U. S. Board on Geographic Names, Gazetteer for Ecuador, 1957.

ECU Collectors

| | | | | | |
|----|---------------------|----|-------------------|----|---------------------------|
| MA | Manuel E. Arzube R. | EG | Eugene J. Gerberg | DP | Donald J. Pletsch, et al. |
| RA | Ross H. Arnett, Jr. | RG | Ernesto Gutierrez | LP | Luis E. Pena G. |
| JB | John N. Belkin | WH | Wilford L. Hjort | DS | Donald A. Schroeder |
| JC | Jose Cobos | MN | Michael J. Nelson | | |

Summary of ECU Collections

| | | | |
|-------------|------------------------|------------------------|--|
| ECU 1-27 | 26 Feb-21 Jun 1965 | LP | Azuay, Carchi, Guayas, Imbabura, Napo, Pichincha, Zamora-Chinchipe |
| ECU 28-99 | Not used | | |
| ECU 100-174 | 5 Feb-25 Mar 1966 | RA, JB, JC, EG, WH, DS | Canar, Guayas, Los Rios |
| ECU 175 | Not used | | |
| ECU 176-177 | 16 Dec 1968-8 Jan 1969 | MN | Guayas |
| ECU 178 | Jul 1938 | "Campos" | Guayas |
| ECU 179-180 | 14-18 Aug 1972 | MA | Esmeraldas |
| ECU 181-184 | 11 Jan-16 Mar 1972 | RG | Guayas, Manabi |
| ECU 185-232 | 14-25 May 1974 | DP, et al. | Guayas, Loja, Manabi, Napo |

ECU Collection Records

1. Guayas, Valdivia, just S of, San Pedro (17MNT3085), 10m; 26-29 Feb 65, LP. Stream pool and/or artificial container. *An. (Ano.) pseudopunctipennis*.
2. Guayas, Daule, about 10km S of, El Triunfo, 10m; 4 Mar 65, LP. Adults biting and flying in domestic-cultivated area; 1800hrs; rainy. *An. (Nys.) ?albimanus*, *Cx. (Cux.) quinquefasciatus*.
3. Azuay, Giron, just E of, Cerro Tinajillas, 3100m; 18-21 Mar 65, LP. Small ground pool in grassy clearing in forest; water permanent, stagnant and with slow current; a little vegetation; bottom with mud, decaying vegetation; full sun. *Cx. (Cux.)* sp 21. Adults taken in forest and in open; 1100-1800hrs; partial clouds. *Ae. (How.) brevittatus*.
4. Azuay, Ona, about 10km N of, Rio Leon at km 99 on Cuenca-Loja road, "1750m" but probably about 2000m; 22 Mar 65, LP. Adults biting and resting in "desertic area"; 0600-0900hrs. *Ae. (How.) ecuadoriensis* (holotype), *Cx. (Cux.)* sp undetermined.
5. Zamora-Chinchipe, Zamora, about 15km NE of, on Rio Zamora, Cumbaratza, 850m; 31 Mar 65, LP. Adults resting in partial forest-cultivated area; 1100-1500hrs; cloudy. *Ps.* sp undetermined, *Wy.* sp undetermined.
6. Zamora-Chinchipe, Zamora, about 10km NE of, tributary stream of Rio Zamora, 850m; 4 Apr 65, LP. Treehole (1.5 x 0.3m, in tree fallen across stream) in partial forest-cultivated area; 3m above ground; partial shade. *Ae. (Och.) fluviatilis*, *Cx. (Cux.) coronator* group, *Cx. (Cux.)* sp 22, *Cx. (Cux.)* sp undetermined.

ECU Collection Records

7. Zamora-Chinchipe, Zamora, W of, Rio Zamora, 1000m; 5 Apr 65, LP. Rockhole in partial forest; water clear; some algae; full sun. *Ae. (Och.) fluviatilis*, *An. (Nys.)* sp undetermined, *Cx. (Cux.)* sp 22.
- 8 (including 8A, B, C, D, E, F, G). Napo, Coca, confluence of Rio Coca and Rio Napo, 250m; 23 Apr-12 May 65, LP. Adults in traps in tropical forest. *Ae. (Och.) fulvus*, *Ae. (subg. A) hortator*, *Ae. spp* undetermined, *Ch. bonneae*, *Cq. (Rhy.) arribalzagai*, *Cq. (Rhy.) fasciolata*, *Cx. (Car.) bonnei*, *Cx. (Cux.) quinquefasciatus*, *Cx. (Cux.) spp* undetermined, *Cx. (Mel.) eastor*, *Cx. (Mel.)* sp 23, *Cx. (Mel.)* sp 25, *Cx. (Mel.) spp* undetermined, *Cx. (Mcx.)* sp 24, *Cx. spp* undetermined, *Hg. (Hag.) janthinomys*, *Li. asulleptus*, *Li. durhamii*, *Li. sp* undetermined, *Or. fascipes*, *Ps. (Gra.) cingulata* group, *Ps. (Jan.) albipes*, *Ps. (Jan.) ferox*, *Ps. (Jan.) ?lanei*, *Ps. (Jan.) lutzii*, *Ps. (Jan.) spp* undetermined, *Ps. (Pso.) lineata*, *Sa. (Sbn.) spp* undetermined, *Sa. sp* undetermined, *Tr. (Trc.) digitatum*, *Tr. (Trc.) lanei*, *Tr. (Trc.) mogilasium*, *Tr. (subg. A) longipes*, *Tr. spp* undetermined, *Ur. (Ura.) calosomata* group, *Wy. (Cal.)* sp 28, *Wy. (Cal.)* sp 33, *Wy. (Dec.)* sp Q, *Wy. (Dec.)* sp undetermined, *Wy. (?Dod.)* sp 27, *Wy. (?Dod.)* sp 35, *Wy. (Eun.)* sp 32, *Wy. (Prs.) ?sp* 26, *Wy. (subg. B)* sp 34, *Wy. spp* undetermined.
9. Napo, Coca, confluence of Rio Coca and Rio Napo, 250m; 26 Apr 65, LP. Treehole (0.3 x 0.1 m) in tropical forest; 1.2m above ground; partial shade. *Cx. (Cux.) mollis*. Contaminations: *Ae. (Och.) serratus* group, *Cq. (Rhy.) fasciolata*, *Cx. (Mel.)* sp 25, *Ps. (Jan.) ferox*, *Ps. (Pso.) cilipes*, *Tr. (Trc.) digitatum*, *Wy. sp* undetermined.
10. Napo, Coca, confluence of Rio Coca and Rio Napo, 250m; 30 Apr 65, LP. Small ground pool in tropical forest; water temporary, turbid, stagnant; algae present; bottom with mud, much decaying vegetation; deep-partial shade. *Ae. (Och.) fulvus*, *Ae. (Och.) nubilus*, *Ae. (Och.) serratus* group, *Cx. (Mel.)* sp undetermined, *Ps. (Jan.) ferox*. Adults resting and flying in tropical forest; 1500-1700hrs; clear day. *Ae. (Och.) fulvus*, *Cx. (Cux.) quinquefasciatus*, *Ps. (Jan.) ferox*.
11. Napo, Coca, confluence of Rio Coca and Rio Napo, 250m; 30 Apr 65, LP. Adults resting in room; 1800hrs. Specimens not available.
12. Napo, Coca, confluence of Rio Coca and Rio Napo, 250m; 1 May 65, LP. *Heliconia* leaf axils in tropical forest; partial shade. *Wy. (Dec.)* sp undetermined.
13. Napo, Coca, confluence of Rio Coca and Rio Napo, 250m; 1 May 65, LP. Epiphytic bromeliad in tropical forest; 1.3m above ground; partial shade. *Wy. (Dod.) aphobema* group.
- 14 (including 14A, B, C). Napo, Coca, confluence of Rio Coca and Rio Napo, 250m; 3 May 65, LP. Artificial container (0.5m wide and deep) in domestic area; water clear, stagnant; no vegetation; full sun. *Cx. (Cux.) corniger*, *Cx. (Cux.) quinquefasciatus*. Contaminations probably from ECU 19: *Ae. (Och.) serratus* group, *Cq. (Rhy.) arribalzagai*, *Cq. (Rhy.) fasciolata*, *Cq. (Rhy.) lynchi*, *Cx. (Mel.)* sp undetermined, *Cx. spp* undetermined, *Ps. (Jan.) lutzii*, *Wy. (Cal.) melanocephala*, *Wy. (Dec.) pseudopecten* group, *Wy. spp* undetermined.
15. Napo, Coca, confluence of Rio Coca and Rio Napo, 250m; 6 May 65, LP. Flower bracts of *Heliconia* in tropical forest. *Wy. (Dec.) pseudopecten* group, *Wy. (Dec.)* sp undetermined.
16. Napo, Coca, confluence of Rio Coca and Rio Napo, 250m; 7 May 65, LP. Epiphytic bromeliad in tropical forest; 0.4m above ground; partial shade. *Wy. (Dod.) aphobema* group.
17. Napo, Coca, about 50km E of, "Isla Pompeya" (island in Rio Napo at confluence with Rio Jivino), 250m; 14 May 65, LP. Treehole (15cm wide, 60cm deep, in cut caricaceous tree) in tropical forest; 0.6m above ground; water turbid; bottom with decaying vegetation; partial shade. *Tr. (Trc.)* n. sp.
- 18 (including 18A). Napo, Coca, about 50km E of, "Isla Pompeya" (island in Rio Napo at confluence with Rio Jivino), 250m; 14 May 65, LP. Flower bracts of *Heliconia* in tropical forest; deep shade. *Wy. (Dec.) pseudopecten* group, *Wy. (Dec.)* sp undetermined.
- 19 (including 19A, B, C, D, E, F). Napo, Coca, about 50km E of, "Isla Pompeya" (island in Rio Napo at confluence with Rio Jivino), 250m; 19-26 May 65, LP. Trap in tropical forest; 1m above ground; day and night. *Ae. (Och.) fulvus*, *Ae. (Och.) serratus* group, *Cq. (Rhy.) arribalzagai*, *Cq. (Rhy.) fasciolata*, *Cq. (Rhy.) lynchi*, *Cx. (Ads.) amazonensis*, *Cx. (Cux.) corniger*, *Cx. (Cux.) spp* undetermined, *Cx. (Mel.) evansae* group, *Cx. (Mel.) lucifugus*, *Cx. (Mel.) putumayensis*, *Cx. (Mel.) spp* undetermined, *Cx. sp* undetermined, *Li. durhamii*, *Li. sp* undetermined, *Ps. (Gra.) cingulata* group, *Ps. (Jan.) ferox*, *Ps. (Jan.) lutzii*, *Sa. (Sbn.)* sp undetermined, *Sa. (Sbo.)* sp undetermined, *Tx. (Lyn.) haemorrhoidalis*, *Tr.*

ECU Collection Records

- (*Trc.*) *digitatum*, *Tr.* (subg. A) *longipes*, *Tr.* spp undetermined, *Ur.* (*Ura.*) *geometrica*, *Ur.* (*Ura.*) sp near *pallidoventer*, *Ur.* (*Ura.*) sp 3, *Wy.* (*Cal.*) *melanocephala*, *Wy.* (*Cal.*) sp 28, *Wy.* (*Dec.*) sp L, *Wy.* (*Dec.*) sp M, *Wy.* (*Dec.*) sp N, *Wy.* (*Dec.*) sp Q, *Wy.* (?*Dod.*) sp 27, *Wy.* (?*Dod.*) sp 35, *Wy.* (*Pen.*) *arthrostigma*, *Wy.* spp undetermined, (see also ECU 14).
20. Napo, Coca, about 50km E of, "Isla Pompeya" (island in Rio Napo at confluence with Rio Jivino), 250m; 20 May 65, LP. Bamboo (cut and uncut internodes) in tropical forest; 1-1.5m above ground; deep shade. *Sa.* (*Sab.*) sp undetermined, *Wy.* (*Pen.*) *arthrostigma*, *Wy.* (*Tri.*) sp undetermined.
- 21 (including 21A). Napo, Coca, about 50km E of, "Isla Pompeya" (island in Rio Napo at confluence with Rio Jivino), 250m; 21 May 65, LP. Fallen nut-half in partial forest-cultivated area; water clear; partial shade. *Cx.* (*Car.*) *bonnei*, *Li.* *asulleptus*, *Li.* *durhamii*, *Tr.* (*Trc.*) *digitatum*, *Tr.* (*Trc.*) n. sp. Adults biting, landing, resting in tropical forest; 1000-1200hrs. *Ae.* (*Och.*) *fulvus*, *Ae.* (*Och.*) *serratus* group, *Cq.* (*Rhy.*) *fasciolata*, *Cq.* (*Rhy.*) *lynchi*, *Cx.* (*Mel.*) sp undetermined, *Tr.* sp undetermined, *Wy.* (*Dec.*) *eloisa* group, *Wy.* spp undetermined.
22. Napo, Coca, about 50km E of, "Isla Pompeya" (island in Rio Napo at confluence with Rio Jivino), 250m; 24 May 65, LP. Bamboo (uncut internodes) in tropical forest; 2-3.5m above ground; deep shade. *Cx.* (*Mcx.*) sp undetermined, *Tr.* (*Trc.*) *lanei*, *Tr.* (*Trc.*) *mogilasium*, *Wy.* (*Mia.*) sp undetermined.
23. Napo, Coca, Rio Napo, 250m; 12-31 May 65, LP. Trap in tropical forest. Specimens not available.
24. Imbabura, Ibarra, just NE of, Laguna de Yaguarcocha, 1950m; 8 Jul 65, LP. Swampy margin of lake in chaparral; water permanent, clear, stagnant; abundant grassy vegetation; bottom with mud; full sun. *Cx.* (*Cux.*) *levicastilloi*. Adults resting in chaparral; 1500-1700hrs; cloudy. *Cx.* (*Cux.*) sp undetermined.
25. Imbabura, Ibarra, Rio Taguando, 1650-1800m; 9 Jun 65, LP. Adults resting in chaparral; 1000-1500hrs; cloudy. *Ae.* (*How.*) *ecuadoriensis*, *Cx.* (*Cux.*) sp undetermined.
26. Carchi, Tulcan, about 10km S of, Cerro Troya, 2950m; 13 Jun 65, LP. Adult resting in open area (*Stipa* dominant sp); 1500-1600hrs. *Ae.* sp undetermined.
27. Pichincha, Santo Domingo de los Colorados, about 50km SE of, Tandapi, 1350-1600m; 20-21 Jun 65, LP. Adults resting in forested canyon; 1000-1400hrs; weather fairly clear. *Ae.* (*How.*) *brevivittatus*, *Ae.* (*How.*) sp near *eleanorae*, *Ae.* (*Pro.*) *terrens* group, *Wy.* spp undetermined.
- 28-99. Not used.
100. Guayas, Guayaquil, Estero Salado just N of Catholic University (17MPT221595), near sea level; 5 Feb 66, JB, et al. Small ground pools in garbage dump near stream and mangroves; water temporary, brown; no vegetation; bottom with plant debris; full sun. *Ae.* (*Och.*) *scapularis*, *Ae.* (*Och.*) *taeniorhynchus*.
101. Guayas, Guayaquil, Estero Salado just N of Catholic University (17MPT221595), near sea level; 5 Feb 66, JB, et al. Adults biting-landing on men in garbage dump near stream and mangroves; 1030-1200hrs; full sun. *Ae.* (*Och.*) *scapularis*, *Ae.* (*Och.*) *taeniorhynchus*.
102. Guayas, Guayaquil, NW edge of, jct. of Rts. 2 and 3 (17MPT195614), 5m; 5 Feb 66, JB, et al. Animal tracks in marshy depression at edge of stream in clearing; water temporary, turbid, stagnant, fresh; a little vegetation; bottom with mud, plant debris. *Ae.* (*Och.*) *scapularis*, *An.* (*Nys.*) *albimanus*, *Cx.* (*Cux.*) *declarator* group, *Cx.* (*Cux.*) *nigripalpus*, *Cx.* (*Cux.*) sp undetermined, *Ur.* (*Ura.*) *lowii*.
103. Guayas, Guayaquil, NW edge of, jct. of Rts. 2 and 3 (17MPT195614), 5m; 5 Feb 66, EG. Adult in spider web. *Cx.* (*Cux.*) ?*nigripalpus*.
104. Guayas, Pascuales, 9.5km N of Guayaquil on Rt. 2 (17MPT1870), 5m; 5 Feb 66, EG, DS. Ground pool along road in open area; water temporary, clear, stagnant, fresh; abundant grassy vegetation; bottom with mud, plant debris; partial shade. *An.* sp undetermined, *Cx.* sp undetermined.
105. Guayas, Pascuales, 9.5km N of Guayaquil on Rt. 2 (17MPT1870), 5m; 5 Feb 66, WH. Small treehole along road in open area; 2m above ground; water colored; bottom with plant debris; partial shade. *Ae.* (*Pro.*) *metoecopus*, *Hg.* (*Hag.*) *acutisentis*, *Hg.* (*Hag.*) *panarchys*.
106. Guayas, Pascuales, 9.5km N of Guayaquil on Rt. 2 (17MPT1870), 5m; 5 Feb 66, JB, et al. Small treehole along road in open area; water brownish; bottom with plant debris; partial shade. *Ae.* (*Pro.*) *metoecopus*, *Hg.* (*Hag.*) *panarchys*.

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107. Guayas, Pascuales, 9.5km N of Guayaquil on Rt. 2 (17MPT1870), 5m; 5 Feb 66, JB, et al. Small treehole along road in open area; water brownish; bottom with plant debris; partial shade. *Ae. (Pro.) metoecopus*, *Hg. (Hag.) panarchys*.
108. Guayas, Pascuales, 9.5km N of Guayaquil on Rt. 2 (17MPT1870), 5m; 5 Feb 66, EG, WH. Adults biting man along road in open area; 1430hrs; partial shade. *Ae. (Och.) scapularis*.
109. Los Rios, Quevedo, 1km E of Valencia, 200m; 6 Feb 66, JB, et al. Fallen banana leaf in plantation; water clear, brown; partial shade. *Li. durhamii*.
110. Los Rios, Quevedo, 1km E of Valencia, 200m; 6 Feb 66, JB, et al. Fallen banana leaf in plantation; water clear, light brown; partial shade. *Li. durhamii*.
111. Los Rios, Quevedo, 1km E of Valencia, 200m; 6 Feb 66, JB, et al. Leaf axils of terrestrial aroid (*Montrichardia*) in plantation along ditch; 1-1.5m above ground; partial shade. *Wy. (Prs.) complosa*, *Wy. (subg. D) chhalcocephala*.
112. Los Rios, Quevedo, 1km E of Valencia, 200m; 6 Feb 66, JB, et al. Fallen cacao pods in plantation; partial shade. *Ae. (Pro.) metoecopus*, *Cx. (Car.) bihaicolus*, *Hg. (Hag.) acutisentis* (holotype), *Li. asulleptus*, *Li. durhamii*, *Tr. (Trc.) digitatum*.
113. Los Rios, Quevedo, 1km E of Valencia, 200m; 6 Feb 66, JB, et al. Adults biting-landing on man in plantation; 1300hrs. No specimens.
- 114, 114A. Los Rios, Quevedo, 4km W of Valencia, 200m; 6 Feb 66, JB, et al. Cut bamboo (many internodes) along road near stream in grazing area; water clear, brownish; partial-full sun. *Ae. (Pro.) metoecopus*, *Cx. (Car.) babahoyensis*, *Hg. (Hag.) acutisentis*, *Hg. (Hag.) panarchys*, *Hg. (Hag.) soperi*, *Sa. (Sab.)* sp near *bipartipes*, *Tr. (Trc.) digitatum*, *Tr. (Trc.)* n. sp, (see also ECU 118).
115. Los Rios, Quevedo, 4km W of Valencia, 200m; 6 Feb 66, JB, et al. Flower bracts of *Calathea* along road near stream in grazing area. No mosquitoes.
116. Los Rios, Quevedo, 4km W of Valencia, 200m; 6 Feb 66, JB, et al. Cut bamboo near stream in grazing area; 1m above ground; water clear; full sun; female laying mass of eggs on surface of water at 1300hrs, eggs hatched by 1800hrs. *Tr. (Trc.) digitatum*.
117. Los Rios, Quevedo, about 10km SW of, Pichilingue, 100m; 6 Feb 66, JB, et al. Small ground pool along road; water temporary, turbid, stagnant; bottom with mud; partial shade. *Cx. (Cux.) camposi*.
118. Los Rios, Quevedo, about 10km SW of, Pichilingue, 100m; 6 Feb 66, JB, et al. Leaf axils of terrestrial aroid (*Montrichardia*) at edge of stream; partial shade. *Wy. (Prs.) complosa*, *Wy. (subg. D) chhalcocephala*. Contaminations probably from ECU 114: *Hg. (Hag.) soperi*, *Li. durhamii*, *Sa. (Sab.)* sp near *bipartipes*.
119. Guayas, Quevedo, about 30km SW of, 3km S of El Empalme, 100m; 6 Feb 66, JB, et al. Cut or broken bamboo at edge of cultivated area; 0-0.5m above ground; water clear, brownish; deep-partial shade. *Co. ?appendiculata*, *Cx. (Car.) babahoyensis*, *Tr. (Trc.) digitatum*, *Tr. (Trc.)* n. sp.
120. Guayas, Quevedo, about 30km SW of, 3km S of El Empalme, 100m; 6 Feb 66, JB, et al. Adults biting-landing on man along path from cultivated area to stream through a patch of forest. *Ae. (Och.) angustivittatus*, *Ae. (Pro.) metoecopus*, *Hg. (Hag.) soperi*, *Ps. (Jan.) ferox*, *Sa. (Sbn.)* sp undetermined, *Tr. (Cte.) magnum*.
121. Los Rios, Babahoyo, about 30km E of, Montalvo, 100m; 8 Feb 66, JB, EG. Cut bamboo (many internodes) in plantation at edge of stream; water clear, brownish, slimy; partial shade. *Hg. (Hag.) soperi*, *Sa. (Sab.)* sp undetermined, *Tr. (Trc.) digitatum*.
122. Los Rios, Babahoyo, about 30km E of, Montalvo, 100m; 8 Feb 66, EG. Fallen cacao pod in plantation at edge of stream; water turbid, colored, foul; deep-partial shade. *Hg. (Hag.) acutisentis*, *Li. durhamii*, *Tr. (Trc.) digitatum*.
123. Los Rios, Babahoyo, about 30km E of, Montalvo, 100m; 8 Feb 66, JB, EG. Epiphytic bromeliad (*Aechmea*) in plantation at edge of stream. *An. (Ker.) neivai*, *Cx. (Mcx.)* sp undetermined.
124. Los Rios, Babahoyo, about 30km E of, Montalvo, 100m; 8 Feb 66, JB. Adults biting-landing on man in plantation near stream; 1130-1215hrs. *Hg. (Hag.) soperi*, *Wy.* sp undetermined.
- 125, 125A. Los Rios, Babahoyo, about 30km E of, Montalvo, "Hacienda Mora," 100m; 8 Feb 66, JB, EG. Cut bamboo (many internodes) in plantation; water clear to turbid, brownish. *Ae. (Pro.) metoecopus*, *Cx. (Car.) babahoyensis*, *Hg. (Hag.) acutisentis*, *Hg. (Hag.) soperi*, *Tr. (Trc.) digitatum*.

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126. Los Rios, Babahoyo, about 30km E of, Montalvo, "Hacienda Mora," 100m; 8 Feb 66, EG. Adults biting-landing on man in plantation; 1230-1330hrs. *Hg. (Hag.) soperi*, *Sa. (Sbn.)* sp undetermined, *Sa. (Sbo.) chloropterus*, *Wy.* sp undetermined.
127. Los Rios, Babahoyo, W edge of town, 50m; 8 Feb 66, JB, EG. Flooded ditch; water temporary, turbid, stagnant, fresh, foul; abundant flotage, vegetation; bottom with mud, animal, plant matter. *Cx. (Mel.) erraticus*, *Cx. (Mel.)* sp undetermined.
128. Los Rios, Babahoyo, 2km W of town, 50m; 8 Feb 66, JB. Adult biting along road. *Ae. (Och.) angustivittatus*.
129. Los Rios, Babahoyo, 5km W of, 50m; 8 Feb 66, JB, EG. Ditch; water temporary, clear, fresh, stagnant-with slow current; abundant flotage, grassy, herbaceous, floating (*Eichhornia*) vegetation; bottom with mud, plant debris. *Cx. (Mel.) ?educator*, *Cx. (Mel.) erraticus*, *Ur. (Ura.) lowii*.
130. Guayas, Guayaquil, about 5km S of, road to Esclusa Guayas-Salado, 2.3km E of road to Puerto Nuevo (17MPT2449), near sea level; 9 Feb 66, JB, EG. Adults biting-landing on man along edge of road and in open woods; 0830-0900hrs; full sun. *Ae. (Och.) scapularis*, *Ae. (Och.) taeniorhynchus*, *Ma. (Man.)* sp undetermined.
131. Not used.
132. Guayas, Chongon, 24km W of Guayaquil on Rt. 3 near road to Chongon (17MPT0255), 50m; 9 Feb 66, JB, EG. Open marshy area along road; water temporary, turbid, stagnant, fresh; abundant grassy vegetation; bottom with mud; full sun. *An. (Nys.) albimanus*, *Cx. (Cux.) declarator* group, *Cx. (Cux.) nigripalpus*, *Ur. (Ura.) lowii*.
133. Guayas, Chongon, 18-19km W of Guayaquil on Rt. 3 (17MPT0758), 20m; 9 Feb 66, JB, EG. Pond along road in open area; water permanent-semipermanent, turbid, stagnant, fresh; abundant algae, grassy, herbaceous, floating vegetation; bottom with gravel; full sun. *An. (Ano.) pseudopunctipennis*, *Cx. (Mel.) ?erraticus*.
134. Guayas, Chongon, 18-19km W of Guayaquil on Rt. 3 (17MPT0758), 20m; 9 Feb 66, JB, EG. Small treehole at edge of open area; deep-partial shade. *Ae. (Pro.) metoecopus*, *Hg. (Hag.) panarchys*.
135. Guayas, Guayaquil, 14km W of on Rt. 3 (17MPT1159), 5m; 9 Feb 66, JB. Cut bamboo at edge of grazing area; water brownish; deep-partial shade. *Hg. (Hag.) acutisentis*, *Hg. (Hag.) panarchys*, *Sa. (Sab.)* sp near *bipartipes*.
136. Guayas, Guayaquil, 14km W of on Rt. 3 (17MPT1159), 5m; 9 Feb 66, JB. Cut bamboo at edge of grazing area; water turbid, reddish, slimy, fermenting; deep-partial shade. *Hg. (Hag.) panarchys*, *Sa. (Sbn.)* sp undetermined.
137. Guayas, Samborondon, road just NW of, 20m; 10 Feb 66, JB. Adults biting-landing along edge of terrestrial bromeliad patch in partial shade. *Ma. (Man.)* sp undetermined.
138. Guayas, Samborondon, road just NW of, 20m; 10 Feb 66, JB. Adults taken sweeping short grass in shade of mimosa. *Ae. (Och.) angustivittatus*, *Ae. (Och.) scapularis*, *Cx. (Cux.) nigripalpus*, *Cx. (Mel.) pilosus*, *Ps. (Jan.) ferox*, *Ur. (Ura.) lowii*.
139. Guayas, Samborondon, road upstream from town, 20m; 10 Feb 66, EG. Animal tracks at edge of open grazing area; water temporary, turbid, stagnant, fresh; a little grassy vegetation; bottom with mud, animal matter. *Ae.* sp undetermined.
140. Guayas, Guayaquil, 12km W of on Rt. 3 (17MPT1358), 5m; 11 Feb 66, WH, DS. Bamboo (uncut internode with 1cm hole) in dense second growth; 3.5m above ground; water brownish; deep shade. *Hg. (Hag.) panarchys*, *Sa. (Sbn.) ?sp* near *undosus*.
141. Guayas, Guayaquil, 12km W of on Rt. 3 (17MPT1358), 5m; 11 Feb 66, WH, DS. Bamboo (many cut internodes) in dense second growth; 0.5m above ground; water brownish; deep shade. *Hg. (Hag.) acutisentis*, *Hg. (Hag.) panarchys*, *Sa. (Sab.)* sp near *bipartipes*, *Wy. (subg. D) chalconecephala*.
142. Guayas, Guayaquil, 12km W of on Rt. 3 (17MPT1358), 5m; 11 Feb 66, WH, DS. Bamboo (uncut internode with 1cm hole) in dense second growth; 2.5m above ground; water brownish; deep shade. *Sa. (Sab.)* sp near *bipartipes*, *Sa. (Sbn.)* sp near *aurescens*, *Sa. (Sbn.)* sp near *undosus*.
143. Guayas, Guayaquil, 12km W of on Rt. 3 (17MPT1358), 5m; 11 Feb 66, WH, DS. Bamboo (uncut internode with 1cm hole) in dense second growth; 0.5m above ground; water brownish; deep shade. *Sa. (Sbn.)* sp near *aurescens*, *Sa. (Sbn.)* sp near *undosus*.

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144. Guayas, Guayaquil, 12km W of on Rt. 3 (17MPT1358), 5m; 11 Feb 66, WH, DS. Adults biting-landing on man in bamboo clump; 0900-1130hrs; mostly overcast, cool, light breeze, deep shade. *Ae. (Och.) angustivittatus*, *Ae. (Och.) scapularis*, *Ae. (Och.) taeniorhynchus*, *Ps. (Jan.) ferox*.
145. Guayas, Guayaquil, 12km W of on Rt. 3 (17MPT1358), 5m; 11 Feb 66, WH, DS. Bamboo (uncut internode with 1cm hole) in dense second growth; 2.5m above ground; water brownish; deep shade. *Sa. (Sab.)* sp near *bipartipes*.
146. Guayas, Guayaquil, 12km W of on Rt. 3 (17MPT1358), 5m; 11 Feb 66, WH, DS. Bamboo (uncut internode with 1cm hole) in dense second growth; 1m above ground; water brownish; deep shade. No specimens.
147. Guayas, Guayaquil, 12km W of on Rt. 3 (17MPT1358), 5m; 11 Feb 66, WH, DS. Small tree-hole (in *Cecropia*) in dense second growth; 2.5m above ground; water clear; deep shade. *Hg. (Hag.) acutisentis*, *Hg. (Hag.) panarchys*, *Tx. (Lyn.) hypoptes*.
148. Guayas, Guayaquil, 12km W of on Rt. 3 (17MPT1358), 5m; 11 Feb 66, WH, DS. Bamboo (uncut internode with 1cm hole) in dense second growth; 2m above ground; water brownish; deep shade. *Hg. (Hag.) panarchys*, *Sa. (Sbn.)* sp near *undosus*.
149. Guayas, Guayaquil, 12km W of on Rt. 3 (17MPT1358), 5m; 11 Feb 66, WH, DS. Bamboo (uncut internode with 1cm hole) in dense second growth; 1.5m above ground; water brownish; deep shade. *Hg. (Hag.) panarchys*.
150. Guayas, Guayaquil, 12km W of on Rt. 3 (17MPT1358), 5m; 11 Feb 66, WH, DS. Bamboo (uncut internode with 1cm hole) in dense second growth; 2m above ground; water brownish; deep shade. *Sa. (Sbn.)* sp near *undosus*.
151. Guayas, Guayaquil, 12km W of on Rt. 3 (17MPT1358), 5m; 11 Feb 66, WH, DS. Bamboo (uncut internode with 1cm hole) in dense second growth; 1m above ground; water colored; deep shade. *Hg. (Hag.) panarchys*, *Sa. (Sab.)* sp near *bipartipes*, *Sa. (Sbn.)* sp near *undosus*.
152. Guayas, Guayaquil, 12km W of on Rt. 3 (17MPT1358), 5m; 11 Feb 66, WH, DS. Bamboo (cut or broken) in dense second growth; 1.5m above ground; water clear; deep shade. *Hg. (Hag.) panarchys*.
153. Guayas, Guayaquil, 12km W of on Rt. 3 (17MPT1358), 5m; 11 Feb 66, WH, DS. Ground pool (3 x 8m) fed by seepage in dense second growth; water semipermanent, clear, fresh, with slow current; abundant herbaceous vegetation; bottom with mud, plant matter; deep shade. *Cx. (Mel.) conpirator*.
154. Guayas, Guayaquil, 12km W of on Rt. 3 (17MPT1358), 5m; 11 Feb 66, WH, DS. Animal tracks at seepage in dense second growth; water semipermanent, turbid, gray, stagnant, fresh; abundant herbaceous vegetation; bottom with mud; deep shade. *Cx. (Mel.)* sp undetermined.
155. Guayas, Guayaquil, 5m; 11 Feb 66, JC. Large ground pool in domestic area. *Cx. (Cux.) quinquefasciatus*.
156. Guayas, Guayaquil, 12km W of on Rt. 3 (17MPT1358), 5m; 11 Feb 66, WH, DS. Progeny rearing attempted from ECU 144. *Ps. (Jan.) ferox*.
157. Guayas, Playas, 7km SE of on road to Posorja (17MNT7204), near sea level; 12 Feb 66, JB, EG. Crabholes (several, 10-15cm wide) at edge of mangroves; water clear-turbid, fresh; bottom with sand, gravel; partial shade. *De. pseudes*.
158. Guayas, Playas, 7km SE of on road to Posorja (17MNT7204), near sea level; 12 Feb 66, RA, EG. Adults biting-landing along road in mangrove area. *Ae. (Och.) taeniorhynchus*.
159. Guayas, Playas, 0.5km N of (17MNT6810), 10m; 12 Feb 66, RA. Female blooded on collector along road in grazing area; 1115hrs; full sun; progeny rearings. *Ae. (Och.) taeniorhynchus*.
160. Guayas, Guayaquil, 10km W of on Rt. 3 (17MPT1558), 5m; 12 Feb 66, JB, EG. Bamboo (6 uncut internodes) in domestic area; 0.5-1.5m above ground; water clear; deep-partial shade. *Hg. (Hag.) panarchys*, *Sa. (Sab.)* sp near *bipartipes*, *Sa. (Sbn.)* sp near *aurescens*.
161. Guayas, Guayaquil, 10km W of on Rt. 3 (17MPT1558), 5m; 12 Feb 66, JB, EG. Bamboo (12-15 cut internodes) in domestic area; 0.5m above ground; water brownish; deep-partial shade. *Ae. (Pro.) metoecopus*, *Hg. (Hag.) panarchys*, *Sa. (Sab.)* sp near *bipartipes*.

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162. Guayas, Guayaquil, 10km W of on Rt. 3 (17MPT1558), 5m; 12 Feb 66, EG. Adults biting-landing in clump of bamboo in domestic area; deep-partial shade. *Ae. (Och.) scapularis*, *Ae. (Och.) taeniorhynchus*, *Ma. (Man.)* sp undetermined, *Ps. (Jan.) ferox*.
163. Guayas, Guayaquil, 10km W of on Rt. 3 (17MPT1558), 5m; 12 Feb 66, JB, EG. Small ground pool near stream in domestic area; water temporary, turbid, stagnant, fresh; no vegetation; bottom with mud, leaves; partial shade. *Cx. (Cux.) nigripalpus*.
164. Canar, "Cochancay," 86km E of Guayaquil on Rt. 8, 280m; 13 Feb 66, JB, EG. Leaf axils of terrestrial aroid (*Montrichardia*) near stream at edge of forest; 0.5-1.5m above ground; water clear; deep-partial shade. *Co. sp 14*, *Tr. (subg. A) ulopus*, *Wy. (Prs.) complosa*, *Wy. (subg. D) chalconephala*.
165. Canar, "Cochancay," 86km E of Guayaquil on Rt. 8, 280m; 13 Feb 66, JB. Leaf axils of *Heliconia* near stream at edge of forest; less than 0.5m above ground; water turbid; deep-partial shade. *Co. sp 14*, *Tr. (subg. A) ulopus*, *Wy. (Prs.) complosa*, *Wy. (Prs.)* sp undetermined.
166. Canar, "Cochancay," 86km E of Guayaquil on Rt. 8, 280m; 13 Feb 66, EG. Flower bracts of *Calathea* near stream at edge of forest; water turbid, pinkish, slimy; deep-partial shade. *Tr. (Cte.) magnum*, *Wy. (Dec.) sp G*, *Wy. (Dec.)* sp undetermined.
167. Canar, "Cochancay," 86km E of Guayaquil on Rt. 8, 280m; 13 Feb 66, JB, EG. Adults biting-landing on man near stream at edge of forest; deep-partial shade. *Hg. (Hag.) soperi*, *Wy.* sp undetermined.
168. Guayas, Guayaquil, 10km W of on Rt. 3 (17MPT1558), 5m; 15 Feb 66, JB, EG. Small ground pool near stream at edge of domestic area; water temporary, turbid, stagnant, fresh; a little herbaceous vegetation; bottom with mud, leaves; partial shade. *Ae. (Och.) scapularis*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) conspirator*, *Ps. (Jan.) ferox*.
169. Guayas, Guayaquil, 10km W of on Rt. 3 (17MPT1558), 5m; 15 Feb 66, JB. Small ground pool at edge of domestic area; water temporary, clear, stagnant, fresh; a little herbaceous vegetation; bottom with mud, leaves; full sun. *Ae. (Och.) scapularis*, *Cx. (Cux.) declarator* group, *Cx. (Mel.) conspirator*, *Ur. (Ura.) lowii*.
170. Guayas, Guayaquil, 10km W of on Rt. 3 (17MPT1558), 5m; 15 Feb 66, EG. Adults biting-landing on man near bamboo clump and house; 0930-1045hrs; partial shade. *Ae. (Och.) scapularis*, *Ae. (Och.) taeniorhynchus*.
171. Guayas, Guayaquil, NW outskirts of, Los Ceibos (17MPT1961), 10m; 15 Feb 66, JB. Small treehole (in *Acacia*) at edge of domestic area; 0.5-1.5m above ground; water brownish; partial shade. *Hg. (Hag.) panarchys*.
172. Guayas, Guayaquil, NW outskirts of, Los Ceibos (17MPT1961), 10m; 15 Feb 66, EG. Adults biting-landing on man under trees in domestic area; 1100-1115hrs; partial shade. *Ae. (Och.) angustivittatus*, *Ae. (Och.) taeniorhynchus*.
173. Guayas, Guayaquil, Estero Salado just NW of Catholic University (17MPT221595), near sea level; 25 Mar 66, JB. Adults biting-landing at edge of mangroves. *Ae. (Och.) taeniorhynchus*, *Cx. (Cux.)* sp undetermined, *Ma. (Man.)* sp undetermined.
174. Guayas, Guayaquil, Estero Salado just NW of Catholic University (17MPT221595), near sea level; 25 Mar 66, JB. Adults biting-landing at edge of mangroves; progeny rearings attempted. *Ae. (Och.) taeniorhynchus*, *An. (Ano.)* sp undetermined.
175. Not used.
176. Guayas, Guayaquil, airport (17MPT2461), near sea level; 16 Dec 68, MN. Adults flying and resting in domestic area; 0530hrs. *Cx. (Cux.) nigripalpus*, *Cx. (Cux.) quinquefasciatus*.
177. Guayas, Guayaquil, airport (17MPT2461), near sea level; 8 Jan 69, MN. Adults flying and resting in domestic area; 0130hrs. *An. (Nys.) albimanus*, *Cx. (Cux.) nigripalpus*.
178. Guayas, Bucay; Jul 38, "Campos." Adults. *Ae. (Pro.) terrens* group.
179. Esmeraldas, San Lorenzo, 6km N of, Isla Changuaral, near sea level; 14-18 Aug 72, MA. Adults biting man in mangroves. *Cx.* sp undetermined, *Hg. (Hag.) boshelli*, *Ps. (Gra.) cingulata* group.
180. Esmeraldas, San Lorenzo, 14km from, "La Chiquita," near sea level; 14-18 Aug 72, MA. CDC light trap. *Ae. (Och.) serratus* group, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) chrysonotum*, *Cx. (Mel.) ?epanastasis*, *Cx. (Mel.) ?vomerifer*, *Cx. (Mel.) ?sp 40*, *Cx. (Mel.)* spp undetermined, *Wy.* sp undetermined.

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181. Guayas, Posorja, just S of, Punta del Morro, near sea level; 11 Jan 72, RG. Light trap. *Cx. (Mel.) psatharus*.
182. Manabi, Manta (17MNU3095), 10m; 14 Mar 72, RG. Light trap. *Ae. (Och.)* sp near *fulvus*.
183. Manabi, "Bahia, Floresta"; 16 Mar 72, RG. Light trap. *Cx. (Cux.) nigripalpus*, *Cx. (Mel.) pilosus*, *Ma. (Man.) indubitans* group.
184. Manabi, Manta (17MNU3095), 10m; 14 Mar 72, RG. Light trap. *Ae. (Och.) scapularis*.
185. Manabi, Portoviejo, 50m; 14 May 74, DP. Adult. *Tx. (Lyn.) hypoptes*.
186. Loja, Loja, about 40km S of, Vilcabamba, 2000m; 17 May 74, DP. Adults. *Ae. (Och.) meprai*.
- 186A. Guayas, Atahualpa, about 15km SE of, Chanduy (17MNT3534), 10m; 20 May 74, DP. Reared adults. *Cx. (Cux.)* sp undetermined, *Hg. (Hag.) panarchys*.
187. Guayas, Guayaquil, 5m; 22 May 74, DP. Adults biting in vegetation. *Ae. (Och.) scapularis*, *Ae. (Och.) taeniorhynchus*.
188. Guayas, Guayaquil, about 5km N of, Mapasingue (17MPT2464), 10m; 22 May 74, DP. Adults biting. *Ae. (Och.) scapularis*, *Ma. (Man.)* sp undetermined.
- 188A. Guayas, Guayaquil, swamp N of airport (17MPT2463), near sea level; 22 May 74, DP. Adults. *Ae. (Och.) scapularis*.
- 188B. Guayas, Guayaquil, Febres Cordero (17MPT206567), 5m; 22 May 74, DP. Adult. *Ae. (Och.) scapularis*.
189. Guayas, Guayaquil, Atarazana (17MPT2459), 5m; 22 May 74, DP. Reared adult. *Cx. (Mel.) erraticus*.
190. Guayas, Guayaquil, about 5km N of, Mapasingue (17MPT2464), 10m; 22 May 74, DP. Reared adult. *An. (Nys.)* sp undetermined.
- 190A. Guayas, Guayaquil, Febres Cordero (17MPT206567), 5m; 22 May 74, DP. Reared adult. *Cx. (Cux.) nigripalpus*.
191. Guayas, Guayaquil, Atarazana (17MPT2459), 5m; 22 May 74, DP. Reared adults. *Cx. (Cux.) nigripalpus*, *Cx. (Cux.)* sp undetermined.
192. Napo, Cuyabeno, about 50km W of, "Tarapoa, Cayman Office," 300m; 23 May 74, DP. Adult. *Tx. (Lyn.) haemorrhoidalis*.
- 192A. Napo, Cuyabeno, about 50km W of, "Tarapoa, Campamento J-C," 300m; 23 May 74, DP. Adults at human bait. *An. (Nys.) ?oswaldoi*.
- 192B. Napo, Cuyabeno, about 50km W of, "Tarapoa, 200m sur de la pista aerea," 300m; 24 May 74, DP. Adults taken at 1935-2000hrs. *An. (Nys.)* sp undetermined, *Cx. (Cux.)* sp undetermined.
- 192C. Napo, Cuyabeno, about 50km W of, "Tarapoa, Campamento de Caminos, 800-1000m sur de la pista aerea," 300m; 24 May 74, DP. Adults taken with net. *Ae. (Och.) dupreei* group, *Cx. (Cux.)* sp undetermined, *Li.* sp undetermined, *Ps. (Jan.) ferox*.
193. Napo, Cuyabeno, about 50km W of, "Tarapoa, Cayman Office," 300m; 23-24 May 74, DP. Adult. *Tx. (Lyn.) haemorrhoidalis*.
194. Guayas, Guayaquil, about 5km N of, Mapasingue (17MPT2464), 10m; 22 May 74, DP. Reared adult. *An. (Nys.)* sp undetermined.
- 194A. Guayas, Guayaquil, Febres Cordero (17MPT206567), 5m; 22 May 74, DP. Reared adult. *Cx. (Cux.)* sp undetermined.
195. Napo, Cuyabeno, about 50km W of, "Tarapoa, swamp W of S end of air strip," 300m; emerged 24 May 74, DP. Reared adults. *Cx. (Cux.) declarator* group, *Cx. (Cux.) mollis*.
196. Napo, Cuyabeno, about 50km W of, "Tarapoa, Campamento Base," 300m; 24 May 74, DP. Adult. *An. (Nys.) ?oswaldoi*.
- 196A. Napo, Cuyabeno, about 50km W of, "Tarapoa, Campamento de Topografia, Aguas Negras," 300m; 24 May 74, DP. Adults taken with net. *Ps. (Jan.) albipes*, *Ps. (Jan.) ferox*.
197. Napo, Cuyabeno, about 50km W of, "Tarapoa, Campamento, 5.5km N," 300m; 25 May 74, DP. Adults taken with net. *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp undetermined, *Cx.* sp undetermined.

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- 197A. Napo, Cuyabeno, about 50km W of, "Tarapoa, Campamento de Caminos 800-1000m sur de la pista," 300m; 25 May 74, DP. Adults taken at 2000-2100hrs. *An. (Nys.)* sp undetermined, *Cq. (Rhy.) fasciolata*, *Cx. (Cux.) corniger*, *Cx. (Cux.)* spp undetermined.
198. Napo, Cuyabeno, about 50km W of, "Tarapoa, Campamento, 5.5km N," 300m; emerged 25-28 May 74, DP. Reared adults. *Tr. (Trc.) digitatum*.
199. Napo, Cuyabeno, about 50km W of, "Tarapoa, Campamento Base," 300m; 24 May 74, DP. Reared adults. *Cx. (Cux.) coronator* group.
200. Napo, Cuyabeno, about 50km W of, "Tarapoa, Campamento km 28 from Contrasa," 300m; 26 May 74, DP. Adults taken with net. *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp undetermined.
201. Napo, Cuyabeno, about 50km W of, "Tarapoa, Campamento Base," 300m; 23 May 74, DP. Reared adults. *An. (Nys.)* sp undetermined, *Cx. (Mel.) chrysonotum*.
202. Napo, Cuyabeno, about 50km W of, "Tarapoa, Contrasa," 300m; 26 May 74, DP. Adults reared from tires. *Cx. (Cux.)* sp undetermined.
203. Napo, Cuyabeno, about 50km W of, "Tarapoa, Campamento, 5.5km N," 300m; 25 May 74, DP. Reared adults. *Li. durhamii*.
204. Napo, Cuyabeno, about 50km W of, "Tarapoa, Izurieta," 300m; 26 May 74, DP. Adults reared from treehole. *Cx. (Cux.)* sp undetermined.
- 204A. Napo, Cuyabeno, about 50km W of, "Tarapoa, Campamento Base," 300m; 28 May 74, DP. Adult. *Ps. (Jan.) ferox*.
- 204B. Napo, Cuyabeno, about 50km W of, "Tarapoa, Aguarico 3, Contrasa," 300m; 26 May 74, DP. Adult reared from treehole. *Cx. (Car.)* sp undetermined.
205. Loja, Loja, about 40km S of, Vilcabamba, 2000m; 17 May 74, DP. Larvae. *An. (Ano.)* sp undetermined.
206. Locality not specified; May 74, DP. Larvae. *An. (Nys.)* sp undetermined.
207. Locality not specified; May 74, DP. Larva. *Cx. (Lut.)* sp undetermined.
208. Locality not specified; May 74, DP. Larvae. *Cx. (Cux.) coronator* group.
209. Locality not specified; May 74, DP. Larvae. *Cx. (Cux.) coronator* group, *Cx. (Mel.)* spp undetermined.
210. Locality not specified; May 74, DP. Larvae. *Tr. (Trc.) digitatum*.
211. Locality not specified; May 74, DP. Larvae. *Cx. (Cux.) coronator* group.
212. Napo, Cuyabeno, about 50km W of, "Tarapoa, Aguarico 3, Contrasa," 300m; 26 May 74, DP. Treehole. *Cx. (And.)* sp undetermined, *Cx. (Car.)* sp undetermined.
213. Locality not specified; May 74, DP. Larvae. *Cx. (Cux.) coronator* group, *Cx. (Cux.)* sp 22, *Cx. (Cux.)* sp undetermined.
214. Locality not specified; May 74, DP. Larvae. *Cx. (Cux.)* sp undetermined.
215. Locality not specified; May 74, DP. Larva. *Cx. (Ads.) amazonensis*.
216. Locality not specified; May 74, DP. Larvae. *Cx. (Cux.) coronator* group, *Cx. (Cux.)* sp undetermined.
217. Locality not specified; May 74, DP. Larvae. *Cx. (Cux.)* sp undetermined.
218. Napo, Cuyabeno, about 50km W of, "Tarapoa, Campamento, 5.5km N," 300m; 25 May 74, DP. Larvae. *Cx. (Cux.) coronator* group.
219. Napo, Cuyabeno, about 50km W of, "Tarapoa, Contrasa," 300m; 26 May 74, DP. Larvae from tires. *Cx. (Car.)* sp undetermined, *Cx. (Cux.)* sp undetermined.
220. Napo, Cuyabeno, about 50km W of, "Tarapoa, 800m al sur de la pista," 300m; 24 May 74, DP. Larvae. *Cx. (Cux.)* sp undetermined.
221. Napo, Cuyabeno, about 50km W of, "Tarapoa, Campamento, 5.5km N," 300m; 25 May 74, DP. Larvae. *Li. durhamii*.
222. Guayas, Atahualpa, about 15km SE of, Chanduy (17MNT3534), 10m; 20 May 74, DP. Larvae from treehole. *Ae. (Pro.) terreus* group, *Hg. (Hag.)* sp undetermined.
223. Locality not specified; May 74, DP. Larvae. *Cx. (Cux.)* sp undetermined, *Cx. (Lut.)* sp undetermined, *Cx. (Mel.)* sp undetermined.
224. Locality not specified; May 74, DP. Adults. *Cx.* sp undetermined.

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225. Napo, Cuyabeno, about 50km W of, "Tarapoa, Campamento de Topografia, Aguas Negras," 300m; 24 May 74, DP. Adults taken with net. *Ae. (Och.) hastatus*.
226. Napo, Cuyabeno, about 50km W of, "Tarapoa, Contrasa," 300m; 26 May 74, DP. Adult reared from tires. *Cx. (Cux.) mollis*.
227. Napo, Cuyabeno, about 50km W of, "Tarapoa, Contrasa," 300m; 26 May 74, DP. Adult reared from tires. *Cx. (Cux.) mollis*.
228. Napo, Cuyabeno, about 50km W of, "Tarapoa, Campamento de Caminos 800-1000m sur de la pista," 300m; 25 May 74, DP. Adult taken at 2000-2100hrs. *Cx. (Ads.) amazonensis*.
229. Napo, Cuyabeno, about 50km W of, "Tarapoa, Campamento de Caminos 800-1000m sur de la pista," 300m; 25 May 74, DP. Adult taken at 2000-2100hrs. *Cx. (Mel.) spissipes*.
230. Napo, Cuyabeno, about 50km W of, "Tarapoa, Campamento, 5.5km N," 300m; 25 May 74, DP. Reared adult. *Cx. (Cux.) coronator* group.
231. Locality not specified; May 74, DP. Adults. *Cx. (Cux.)* sp undetermined.
232. Locality not specified; May 74, DP. Adult. *Cx. (Car.) urichii*.

ECU Locality Index

AZUAY

Cerro Tinajillas (3°11'S, 79°02'W, mountain just E of Giron), slopes of, 3100m.—3.

Ona (3°32'S, 79°10'W, about 20km N of Saraguro), about 10km N of. Rio Leon at km 99 on Cuenca-Loja road, "1750m" but probably about 2000m.—4.

CANAR

"*Cochancay*," vicinity of. 86km E of Guayaquil on Rt. 8, 280m.—164, 165, 166, 167.

CARCHI

Cerro Troya (0°44'N, 77°41'W, about 10km S of Tulcan), slopes of, 2950m.—26.

ESMERALDAS

Isla Changuaral (1°23'N, 78°50'W, island separated from mainland by narrow channel on Colombian border, 6km N of San Lorenzo), near sea level.—179.

San Lorenzo (1°17'N, 78°50'W, on coast near Colombian border), 14km from. "La Chiquita," near sea level.—180.

GUAYAS

Bucay (2°10'S, 79°06'W, about 60km E of Milagro), 500m.—178.

Chanduy (17MNT3534, about 15km SE of Atahualpa), 10m.—186A, 222.

Chongon (17MPT0253, about 15km W of Guayaquil), vicinity of. 24km W of Guayaquil on Rt. 3 (17MPT0255), 50m.—132. 18-19km W of Guayaquil on Rt. 3 (17MPT0758), 20m.—133, 134.

El Empalme (=Velasco Ibarra, 1°06'S, 79°41'W, about 30km SW of Quevedo), 100m, 3km S of.—119, 120.

El Triunfo (1°56'S, 79°58'W, about 10km S of Daule), 10m.—2.

Guayaquil (17MPT2357, capital of Guayas) and vicinity. Various localities in and within a few km of city, near sea level—100, 101, 102, 103, 130, 155, 171, 172, 173, 174, 176, 177, 187, 188A, 188B, 189, 190A, 191, 194A. 10km W of city on Rt. 3 (17MPT1558), 5m.—160, 161, 162, 163, 168, 169, 170. 12km W of city on Rt. 3 (17MPT1358), 5m.—140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 156. 14km W of city on Rt. 3 (17MPT1159), 5m.—135, 136.

Mapasingue (17MPT2464, about 5km N of Guayaquil), 10m.—188, 190, 194.

Pascuales (17MPT1871, about 15km N of Guayaquil, on Rio Daule), just S of. 9.5km N of Guayaquil on Rt. 2 (17MPT1870), 5m.—104, 105, 106, 107, 108.

Playas (17MNT6809, about 25km S of Juan Gomez Rendon, on Golfo de Guayaquil), vicinity of. 0.5km N of Playas (17MNT6810), 10m.—159. 7km SE of Playas on road to Posorja (17MNT7204), near sea level.—157, 158.

Punta del Morro (17MNS8398, just S of Posorja), near sea level.—181.

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Samborondon (1°57'S, 79°44'W, about 35km NE of Guayaquil, on Rio Babahoyo), 20m.—137, 138, 139.

San Pedro (17MNT3085, just S of Valdivia), 10m.—1.

IMBABURA

Ibarra (0°21'N, 78°07'W, capital of Imbabura, on Rio Taguando) vicinity of. Rio Taguando, 1650-1800m.—25.

Yaguarcocha, Laguna de (0°22'N, 78°06'W, just NE of Ibarra), 1950m.—24.

LOJA

Vilcabamba (4°18'S, 79°15'W, about 40km S of Loja), 2000m.—186, 205.

LOS RIOS

Babahoyo (1°49'S, 79°31'W, capital of Los Rios, on Rio Babahoyo) and vicinity. W edge of town, 50m.—127. 2km W of town, 50m.—128. 5km W of town, 50m.—129.

Montalvo (1°48'S, 79°20'W, about 30km E of Babahoyo), 100m.—121, 122, 123, 124, 125, 126.

Pichilingue (1°06'S, 79°29'W, about 10km SW of Quevedo), 100m.—117, 118.

Valencia (1°01'S, 79°21'W, about 10km E of Quevedo), 200m, vicinity of. 1km E of Valencia.—109, 110, 111, 112, 113. 4km W of Valencia.—114, 115, 116.

MANABI

"Bahia, Floresta."—183.

Manta (17MNU3095, about 35km NW of Portoviejo, on coast), 10m.—182, 184.

Portoviejo (1°03'S, 80°27'W, capital of Manabi), 50m.—185.

NAPO

Coca (=Francisco de Orellana, 0°28'S, 76°58'W, at confluence of Rio Coca and Rio Napo), 250m, vicinity of.—8, 9, 10, 11, 12, 13, 14, 15, 16, 23.

"Isla Pompeya" (0°26'S, 76°37'W, island in Rio Napo at confluence with Rio Jivino, about 50km E of Coca), 250m.—17, 18, 19, 20, 21, 22.

"Tarapoa" (about 0°10'S, 76°20'W, about 50km W of Cuyabeno, between Rio Aguarico and Rio Cuyabeno), 300m, and vicinity.—192, 192A, 192B, 192C, 193, 195, 196, 196A, 197, 197A, 198, 199, 200, 201, 202, 203, 204, 204A, 204B, 212, 218, 219, 220, 221, 225, 226, 227, 228, 229, 230.

PICHINCHA

Tandapi (0°23'S, 78°46'W, about 50km SE of Santo Domingo de los Colorados), 1350-1600m.—27.

ZAMORA-CHINCHIPE

Cumbaratza (3°57'S, 78°50'W, about 15km NE of Zamora, on Rio Zamora), 850m.—5.

Zamora (4°04'S, 78°58'W, about 30km E of Loja, on Rio Zamora), vicinity of. Rio Zamora W of Zamora, 1000m.—7. Tributary stream of Rio Zamora, about 10km NE of Zamora, 850m.—6.

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(Lot number in parentheses indicates a contamination.)

Aedes (Howardina) brevivittatus Berlin 1969.—3, 27.

Aedes (Howardina) ecuadoriensis Berlin 1969.—4 (holotype), 25.

Aedes (Howardina) sp near *eleanorae*.—27.

Aedes (Ochlerotatus) angustivittatus Dyar and Knab 1907.—120, 128, 138, 144, 172.

Aedes (Ochlerotatus) dupreei group: *hastatus*, *oligopistus* or related sp.—192C.

Aedes (Ochlerotatus) fluviatilis (Lutz 1904).—6, 7.

Aedes (Ochlerotatus) fulvus (Wiedemann 1828).—8, 10, 19, 21.

Aedes (Ochlerotatus) sp near *fulvus*.—182.

Aedes (Ochlerotatus) hastatus Dyar 1922.—225.

Aedes (Ochlerotatus) meprai Martinez and Prosen 1953.—186.

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- Aedes (Ochlerotatus) nubilus* Theobald 1903.—10.
Aedes (Ochlerotatus) scapularis (Rondani 1848).—100, 101, 102, 108, 130, 138, 144, 162, 168, 169, 170, 184, 187, 188, 188A, 188B.
Aedes (Ochlerotatus) serratus group: *nubilus*, *serratus* and/or related sp.—(9), 10, (14), 19, 21, 180.
Aedes (Ochlerotatus) taeniorhynchus (Wiedemann 1821).—100, 101, 130, 144, 158, 159, 162, 170, 172, 173, 174, 187.
Aedes (Protomacleaya) metoecopus Dyar 1925.—105, 106, 107, 112, 114, 120, 125, 134, 161.
Aedes (Protomacleaya) terreus group: *metoecopus* or related sp.—27, 178, 222.
Aedes (subgenus A) *hortator* Dyar and Knab 1907.—8.
Aedes sp undetermined.—8, 26, 139.
Anopheles (Anopheles) pseudopunctipennis Theobald 1901.—1, 133.
Anopheles (Anopheles) sp undetermined.—174, 205.
Anopheles (Kerteszia) neivai Howard, Dyar and Knab 1913.—123.
Anopheles (Nyssorhynchus) albimanus Wiedemann 1820.—?2, 102, 132, 177.
Anopheles (Nyssorhynchus) ?oswaldoi (Peryassu 1922).—192A, 196.
Anopheles (Nyssorhynchus) sp undetermined.—7, 190, 192B, 194, 197A, 201, 206.
Anopheles sp undetermined.—104.
Chagasia bonneae Root 1927.—8.
Coquillettia (Rhynchotaenia) arribalzagai (Theobald 1903).—8, (14), 19.
Coquillettia (Rhynchotaenia) fasciolata (Lynch Arribalzaga 1891).—8, (9), (14), 19, 21, 197A.
Coquillettia (Rhynchotaenia) lynchi (Shannon 1931).—(14), 19, 21.
Corethrella ?appendiculata Grabham 1906.—119.
Corethrella sp 14: near *jenningsi* of Lane and Aitken 1956:533.—164, 165.
Culex (Aedinus) amazonensis (Lutz 1905).—19, 215, 228.
Culex (Anodioporpa) sp undetermined.—212.
Culex (Carrollia) babahoyensis Levi-Castillo 1953.—114, 114A, 119, 125, 125A.
Culex (Carrollia) bihaicolus Dyar and Nunez Tovar 1927.—112.
Culex (Carrollia) bonnei Dyar 1921.—8, 21.
Culex (Carrollia) urichii (Coquillett 1906).—232.
Culex (Carrollia) sp undetermined.—204B, 212, 219.
Culex (Culex) camposi Dyar 1925.—117.
Culex (Culex) corniger Theobald 1903.—14, 19, 197A.
Culex (Culex) coronator group: any of several spp.—6, 199, 208, 209, 211, 213, 216, 218, 230.
Culex (Culex) declarator group: *declarator* or related sp.—102, 132, 169, 195.
Culex (Culex) levicastilloi Lane 1945.—24.
Culex (Culex) mollis Dyar and Knab 1906.—9, 195, 226, 227.
Culex (Culex) nigripalpus Theobald 1901.—102, ?103, 132, 138, 163, 176, 177, 183, 190A, 191.
Culex (Culex) quinquefasciatus Say 1823.—2, 8, 10, 14, 155, 176.
Culex (Culex) sp 21: possibly *quitensis*.—3.
Culex (Culex) sp 22: *coronator* group, possibly sp 51 from Colombia.—6, 7, 213.
Culex (Culex) sp undetermined.—4, 6, 8, 19, 24, 25, 102, 168, 173, 180, 186A, 191, 192B, 192C, 194A, 197, 197A, 200, 202, 204, 213, 214, 216, 217, 219, 220, 223, 231.
Culex (Lutzia) sp undetermined.—207, 223.
Culex (Melanoconion) chrysonotum Dyar and Knab 1908.—180, 201.
Culex (Melanoconion) conspirator Dyar and Knab 1906.—153, 168, 169.
Culex (Melanoconion) eastor Dyar 1920.—8.
Culex (Melanoconion) ?educator Dyar and Knab 1906.—129.
Culex (Melanoconion) ?epanastasis Dyar 1922.—180.
Culex (Melanoconion) erraticus (Dyar and Knab 1906).—127, 129, ?133, 189.
Culex (Melanoconion) evansae group: sp near *evansae*.—19.
Culex (Melanoconion) lucifugus Komp 1936.—19.
Culex (Melanoconion) pilosus (Dyar and Knab 1906).—138, 183.

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- Culex (Melanoconion) psatharus* Dyar 1920.—181.
Culex (Melanoconion) putumayensis Matheson 1934.—19.
Culex (Melanoconion) spissipes (Theobald 1903).—229.
Culex (Melanoconion) ?vomerifer Komp 1932.—180.
Culex (Melanoconion) sp 23: near *albinensis*.—8.
Culex (Melanoconion) sp 25: male genitalia unique, possibly near *idottus*.—8, (9).
Culex (Melanoconion) ?sp 40: ?*taeniopus* of authors.—180.
Culex (Melanoconion) sp undetermined.—8, 10, (14), 19, 21, 127, 154, 180, 197, 200, 209, 223.
Culex (Microculex) sp 24: near sp 106 from Colombia.—8.
Culex (Microculex) sp undetermined.—22, 123.
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Deinocerites pseudus Dyar and Knab 1909.—157.
Haemagogus (Haemagogus) acutisentis Arnell 1973.—105, 112 (holotype), 114, 122, 125, 135, 141, 147.
Haemagogus (Haemagogus) boshelli Osorno-Mesa 1944.—179.
Haemagogus (Haemagogus) janthinomys Dyar 1921.—8.
Haemagogus (Haemagogus) panarchys Dyar 1921.—105, 106, 107, 114, 134, 135, 136, 140, 141, 147, 148, 149, 151, 152, 160, 161, 171, 186A.
Haemagogus (Haemagogus) soperi Levi-Castillo 1955.—114, (118), 120, 121, 124, 125, 125A, 126, 167.
Haemagogus (Haemagogus) sp undetermined.—222.
Limatus asulleptus (Theobald 1903).—8, 21, 112.
Limatus durhamii Theobald 1901.—8, 19, 21, 109, 110, 112, (118), 122, 203, 221.
Limatus sp undetermined.—8, 19, 192C.
Mansonia (Mansonia) indubitans group: *dyari*, *indubitans* or related sp.—183.
Mansonia (Mansonia) sp undetermined.—130, 137, 162, 173, 188.
Orthopodomyia fascipes (Coquillett 1905).—8.
Psorophora (Grabhamia) cingulata group: *cingulata* or related sp.—8, 19, 179.
Psorophora (Janthinosoma) albipes (Theobald 1907).—8, 196A.
Psorophora (Janthinosoma) ferox (Humboldt 1819).—8, (9), 10, 19, 120, 138, 144, 156, 162, 168, 192C, 196A, 204A.
Psorophora (Janthinosoma) ?lanei Shannon and Cerqueira 1943.—8.
Psorophora (Janthinosoma) lutzii (Theobald 1901).—8, (14), 19.
Psorophora (Janthinosoma) sp undetermined.—8.
Psorophora (Psorophora) cilipes (Fabricius 1805).—(9).
Psorophora (Psorophora) lineata (Humboldt 1819).—8.
Psorophora sp undetermined.—5.
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Sabethes (Sabethes) sp undetermined.—20, 121.
Sabethes (Sabethinus) sp near *aurescens*.—142, 143, 160.
Sabethes (Sabethinus) sp near *undosus*.—?140, 142, 143, 148, 150, 151.
Sabethes (Sabethinus) sp undetermined.—8, 19, 120, 126, 136.
Sabethes (Sabethoides) chloropterus (Humboldt 1819).—126.
Sabethes (Sabethoides) sp undetermined.—19.
Sabethes sp undetermined.—8.
Toxorhynchites (Lynchiella) haemorrhoidalis (Fabricius 1787).—19, 192, 193.
Toxorhynchites (Lynchiella) hypoptes (Knab 1907).—147, 185.
Trichoprosopon (Ctenogoeldia) magnum (Theobald 1905).—120, 166.
Trichoprosopon (Trichoprosopon) digitatum (Rondani 1848).—8, (9), 19, 21, 112, 114, 114A, 116, 119, 121, 122, 125, 125A, 198, 210.
Trichoprosopon (Trichoprosopon) lanei (Antunes 1937).—8, 22.
Trichoprosopon (Trichoprosopon) mogilasium (Dyar and Knab 1907).—8, 22.
Trichoprosopon (Trichoprosopon) new sp near *compressum*.—114, 119.
Trichoprosopon (Trichoprosopon) new sp near *pallidiventer*.—17, 21.

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- Trichoprosopon* (subgenus A) *longipes* (Fabricius 1805).—8, 19.
Trichoprosopon (subgenus A) *ulopus* (Dyar and Knab 1906).—164, 165.
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Uranotaenia (*Uranotaenia*) *calosomata* group: *calosomata* or related sp.—8.
Uranotaenia (*Uranotaenia*) *geometrica* Theobald 1901.—19.
Uranotaenia (*Uranotaenia*) *lowii* Theobald 1901.—102, 129, 132, 138, 169.
Uranotaenia (*Uranotaenia*) sp near *pallidoventer*.—19.
Uranotaenia (*Uranotaenia*) sp 3: near *davisi*.—19.
Wyeomyia (*Calladimyia*) *melanocephala* Dyar and Knab 1906.—(14), 19.
Wyeomyia (*Calladimyia*) sp 28: possibly *surinamensis*.—8, 19.
Wyeomyia (*Calladimyia*) sp 33: near *melanocephala*.—8.
Wyeomyia (*Decamyia*) *eloisa* group: *eloisa* or related sp.—21.
Wyeomyia (*Decamyia*) *pseudopecten* group: *pseudopecten* or related sp.—(14), 15, 18.
Wyeomyia (*Decamyia*) sp G: male genitalia distinctive.—
Wyeomyia (*Decamyia*) sp L: male genitalia distinctive.—19.
Wyeomyia (*Decamyia*) sp M: male genitalia distinctive.—19.
Wyeomyia (*Decamyia*) sp N: male genitalia distinctive.—19.
Wyeomyia (*Decamyia*) sp Q: near *rorotai*.—8, 19.
Wyeomyia (*Decamyia*) sp undetermined.—8, 12, 15, 18, 166.
Wyeomyia (*Dodecamyia*) *aphobema* group: *aphobema* or related sp.—13, 16.
Wyeomyia (?*Dodecamyia*) sp 27: possibly related to *aphobema*.—8, 19.
Wyeomyia (?*Dodecamyia*) sp 35: possibly related to *aphobema*.—8, 19.
Wyeomyia (*Eunicemyia*) sp 32: near *albosquamata*.—8.
Wyeomyia (*Miamyia*) sp undetermined.—22.
Wyeomyia (*Pentemyia*) *arthrostigma* (Lutz 1905).—19, 20.
Wyeomyia (*Prosopolepis*) *complosa* (Dyar 1928).—111, 118, 164, 165.
Wyeomyia (*Prosopolepis*) ?sp 26: near *testei* and *ypsipola*.—8.
Wyeomyia (*Prosopolepis*) sp undetermined.—165.
Wyeomyia (*Triamyia*) sp undetermined.—20.
Wyeomyia (subgenus B) sp 34: near *belkini* and *personata*.—8.
Wyeomyia (subgenus D) *chalcocephala* Dyar and Knab 1906.—111, 118, 141, 164.
Wyeomyia sp undetermined.—5, 8, (9), (14), 19, 21, 27, 124, 126, 167, 180.

PERU

Code: PER

The collections from Peru are recognized by one of the following two printed labels: //PER[handwritten 1-3]/Peru 65-66[modified to 63]/Mosq Mid Amer//, //PER[handwritten 4-25, 101-118, 201-215]/Peru 68-69[modified to 72-73 for 101-118, and to 75 for 201-215]/Mosq Mid Amer//. Miscellaneous material from the collections of W.H.W. Komp (code PERK) and James B. Kitzmiller (code PERZ) is not recorded at this time, but will probably be covered in a later publication.

The elevations for those localities that are *not* designated by UTM grid coordinates are only approximate and may be in error by 200m or more.

Maps and Gazetteers Used for PER

- World 1:1,000,000, series 1301; sheets SA 17, SA 18, SA 19, SB 18, ed. 1-AMS; sheet SB 17, ed. 2-AMS.
 World 1:250,000, series 1501, sheets SB17-3, SB17-7, SB17-16, SC17-4, SD18-1, ed. 1.
 Peru 1:50,000, series J731; sheets 0761-2, -3, ed. 1-DMATC; sheets 0956-2, 1056-3, -4, ed. 1-AMS.
 Peru City Maps 1:12,500, series J931, sheet Lima 2, ed. 2-DMATC.
 U. S. Board on Geographic Names, Gazetteer for Peru.

PER Collectors

| | | | | | |
|----|----------------|----|-------------------------|----|-------------------|
| CG | Clark Gardner | XL | Louthian | MN | Michael J. Nelson |
| OG | Oscar Gonzales | FM | Francisco Morales-Ayala | | |

Summary of PER Collections

| | | | |
|-------------|--------------------------|--------|--|
| PER 1-3 | 16-21 Aug 1963 | XL | Loreto |
| PER 4-25 | 16 Dec 1968-5 Jan 1969 | OG, MN | Cajamarca, Junin, Lima, Piura, Tumbes |
| PER 26-100 | Not used | | |
| PER 101-118 | 15 Sept 1972-16 Mar 1973 | FM | Amazonas, Cajamarca, La Libertad, Loreto |
| PER 119-200 | Not used | | |
| PER 201-215 | 12-15 Jun 1975 | CG | Loreto |

PER Collection Records

1. Loreto, Iquitos, "Iquitos Hotel," 100m; 16 Aug 63, XL. Adults at light in room; 2400hrs. No mosquitoes.
2. Loreto, "San Francisco Amazonas," saw mill near, 100m; 20 Aug 63, XL. Adults biting man in domestic area; 1930hrs; after rain storm. *Ma. (Man.)* sp undetermined.
3. Loreto, "San Francisco Amazonas," saw mill near, 100m; 21 Aug 63, XL. Adults biting man in domestic area; 1800hrs; humid. *Ma. (Man.)* sp undetermined.
4. Lima, Lima, Pueblo Libre (18LTM7564), 80m; 16 Dec 68, MN. Adults resting in room; 2000hrs. *Cx. (Cux.) ?quinquefasciatus*.
5. Lima, Matucana, 0.8km S of train station and 30m S of Rio Rimac, 2400m; 17 Dec 68, MN. Small drain in grazing area; water semipermanent, turbid, stagnant, fresh; a little algae; bottom with mud, rock; deep shade. *Cx. (Cux.) debilis*, *Cx. (Cux.)* sp undetermined.
6. Junin, Tarma, "opposite 344 Potero," 3000m; 18 Dec 68, MN. Small ground pool along dike in domestic area; water semipermanent, turbid, stagnant, fresh; grass at margins; bottom with mud; full sun. *Cx. (Cux.)* sp 61.
7. Junin, Tarma, "opposite 344 Potero," 3000m; 18 Dec 68, MN. Small ground pool along dike in domestic area; water semipermanent, turbid; abundant grassy, herbaceous vegetation; bottom with mud, feces; partial shade. *Cx. (Cux.)* sp 61.
8. Piura, Piura, "Aguas Negras," 10m; 22 Dec 68, MN. Swampy margin of lake; water permanent, turbid, stagnant, fresh, foul; abundant scum, flotage, algae, grassy, herbaceous vegetation; bottom with mud, sewage; full sun. *Cx. (Cux.) ?interrogator*, *Cx. (Cux.) nigripalpus*.
9. Piura, Piura, "Aguas Negras," 10m; 22 Dec 68, MN. Swampy margin of lake; water permanent, turbid, stagnant, fresh, foul; abundant grassy vegetation; bottom with mud; partial shade. *Cx. (Cux.) ?interrogator*.
10. Piura, Piura, "Aguas Negras," 10m; 22 Dec 68, MN. Marshy depression at edge of lake in grazing area; water semipermanent, clear, stagnant, fresh, foul; abundant grassy vegetation; bottom with mud, feces. *Ae. (Och.) scapularis*.
11. Piura, Piura, Rio Piura at "Bolognesi bridge," 10m; 24 Dec 68, MN. Small ground pool at edge of river; water temporary, turbid, stagnant, fresh, foul, slimy, fermenting; abundant flotage, scum, herbaceous vegetation; bottom with mud, sewage; partial shade. Specimens lost.
12. Piura, Piura, Rio Piura between "Sancho Cerro bridge and Bolognesi bridge," 10m; 24 Dec 68, MN. Stream margin; water temporary, clear, stagnant or with slow current, fresh; abundant grassy vegetation; bottom with mud; partial shade. *An. (Ano.) pseudopunctipennis*.
13. Piura, Querecotillo, Hualtaca (17MNQ3969), 70m; 26 Dec 68, MN. Small ground pool in rice field; water temporary, turbid, stagnant, fresh; a little grassy vegetation; bottom with mud; full sun. *Cx. (Cux.) nigripalpus*.
14. Tumbes, Tumbes, Rio Tumbes, 300m W of main bridge, 10m; 30 Dec 68, MN. Adults biting-landing on man near river; 0800-0820hrs; overcast. *Ae. (Och.) scapularis*, *Ae. (Och.) taeniorhynchus*, *Ps. (Gra.) confinnis* group.

PER Collection Records

15. Tumbes, Tumbes, "Playa Hermosa," near sea level; 30 Dec 68, MN. Adults in large crabhole in mangroves; 1300hrs; deep shade. *De. pseudes*.
16. Tumbes, Tumbes, "Playa Hermosa," near sea level; 30 Dec 68, MN. Adults biting-landing on man in mangroves; 1300hrs; deep shade. *Ae. (Och.) scapularis*, *Ae. (Och.) taeniorhynchus*.
17. Piura, Sullana, just SW of, Carretera Panamericana at turnoff to Marcavelica (17MNQ3360), 50m; 3 Jan 69, MN. Adults biting-landing on men in banana plantation; 1030hrs. *Ae. (Och.) scapularis*.
18. Piura, Sullana, about 10km W of, Mallares (17MNQ2562), 50m; 3 Jan 69, MN. Small marshy ground pool in plantation; water temporary, clear, stagnant, fresh; abundant grass; bottom with mud, plant, animal matter; partial shade. *An. (Ano.) pseudopunctipennis*, *An. (Nys.) albimanus*, *Cx. (Mel.) erraticus*.
19. Piura, Piura, "Aguas Negras," 10m; 3 Jan 69, MN. Small ground pool at edge of lake; water semipermanent, clear, stagnant, fresh, foul; abundant grass; bottom with mud, sewage; partial shade. *Cx. (Cux.) ?interrogator*.
20. Piura, Piura, "Aguas Negras," 10m; 3 Jan 69, MN. Swampy margin of lake; water permanent, turbid, green; abundant scum, algae, grassy vegetation; bottom with mud, sewage; partial shade. *Cx. (Cux.) ?interrogator*, *Cx. (Cux.) nigripalpus*.
21. Piura, Piura, "Aguas Negras," 10m; 3 Jan 69, MN. Swampy margin of lake; water permanent, turbid, stagnant, fresh, foul, fermenting; abundant algae, grassy vegetation; bottom with mud, sewage; partial shade. *Cx. (Cux.) ?interrogator*, *Cx. (Cux.) nigripalpus*.
22. Piura, Piura, "Aguas Negras," 10m; 3 Jan 69, MN. Swampy margin of lake in grazing area; water semipermanent, turbid, stagnant, fresh, foul; abundant, grassy vegetation; bottom with mud; partial shade. *Cx. (Cux.) ?interrogator*, *Cx. (Cux.) nigripalpus*.
23. Piura, Piura, "Aguas Negras," 10m; 3 Jan 69, MN. Marshy depression at edge of lake in grazing area; water semipermanent, clear, stagnant, fresh; abundant flottage, grassy vegetation; bottom with mud; full sun. *Ae. (Och.) scapularis*, *Cx. (Cux.) ?interrogator*.
24. Cajamarca, Chepen, about 20km SE of, Ventanillas, about 1km N of (17MPM9296), 250m; 5 Jan 69, MN. Large ground pool in rice field; abundant scum, grassy vegetation; bottom with mud; partial shade. *An. (Ano.) pseudopunctipennis*.
25. Piura, Piura, 10m; 22 Dec 68, OG. Adults resting in house. *Cx. (Cux.) ?interrogator*, *Cx. (Cux.) nigripalpus*, *Cx. (Cux.)* sp undetermined.
- 26-100. Not used.
101. Amazonas, Jaen, about 30km E of, Bagua Chica, 400m; 15 Sept 72, FM. Light trap in domestic area. *Cx. (Cux.) quinquefasciatus*.
102. Amazonas, Jaen, about 30km E of, Bagua Chica, 400m; 16 Sept 72, FM. Adults resting in domestic area. *Cx. (Cux.) quinquefasciatus*.
103. Cajamarca, Chepen, about 20km SE of, Ventanillas, Rio Jequetepeque (17MPM9296), 250m; 31 Oct 72, FM. Light trap near river. No mosquitoes.
104. La Libertad, Pascamayo, San Pedro de Lloc (17MPM6579), 50m; 1 Nov 72, FM. Light trap between canal and house; 1800-0600hrs. *An. (Ano.) pseudopunctipennis*, *Cx. (Cux.) nigripalpus*.
105. Not available.
106. Loreto, Iquitos, between Rio Amazonas and naval base, 100m; 23 Nov 72, FM. Light trap in plantation; 1800-0630hrs. *Cx. (Cux.)* sp undetermined, *Cx. (Mel.)* sp undetermined, *Ma. (Man.)* sp undetermined.
107. Loreto, Iquitos, between Rio Amazonas and houses, 100m; 24 Nov 72, FM. Light trap in plantation; 1800-0630hrs. *Cx. (Cux.)* sp undetermined, *Ma. (Man.)* sp undetermined.
108. Not available.
109. La Libertad, Viru, San Ildefonso (17LQL4471), 50m; 25 Feb 73, FM. Adults resting in domestic area. *Ae. (Och.) scapularis*, *An. (Ano.) pseudopunctipennis*, *Cx. (Cux.) nigripalpus*, *Cx. (Mel.) erraticus*.
110. La Libertad, Viru, San Ildefonso (17LQL4471), 50m; 24-25 Feb 73, FM. Light trap between stream and houses; 1800-0600hrs. *An. (Ano.) pseudopunctipennis*.

PER Collection Records

111. La Libertad, Viru, San Ildefonso (17LQL4471), 50m; 25-26 Feb 73, FM. Light trap between stream and house; 1800-0630hrs. *Ae. (Och.) scapularis*, *An. (Ano.) pseudopunctipennis*, *An. (Nys.)* sp undetermined, *Cx. (Cux.) nigripalpus*, *Cx. (Cux.)* sp undetermined, *Cx. (Mel.) erraticus*.

112-117. Not available.

118. La Libertad, Chepen, "Cas. Mampoche," 100m; 16 Mar 73, FM. Adults resting in domestic area; 0800-1100hrs. *An. (Ano.) pseudopunctipennis*, *Cx. (Cux.) quinquefasciatus*, *Cx. (Mel.) erraticus*.
119-200. Not used.

201. Loreto, Leticia, about 6km N of "Bella Vista, Callaru River," 80m; 12 Jun 75, CG. Flower bracts of *Heliconia* in second growth near banana plantation. *Wy. (Dec.)* sp undetermined.

202. Loreto, Leticia, "Bella Vista, Callaru River," 80m; 13 Jun 75, CG. Treehole in cut stump of palm in domestic area. *Cx. (Car.) bonnei*, *Cx. (Car.) urichii* subgroup, *Li.* sp undetermined, *Sa.* sp undetermined, *Wy.* sp undetermined.

203. Loreto, Leticia, about 1.5km from "Bella Vista," 80m; 13 Jun 75, CG. Terrestrial bromeliad (pineapple) in banana plantation. *Cx. (Car.) infoliatum*, *Cx. (Car.) urichii* subgroup, *Li. asulleptus*, *Tr. (Trc.) digitatum*, *Wy.* sp undetermined.

204. Loreto, Leticia, about 1.5km from "Bella Vista, Callaru River," 80m; 13 Jun 75, CG. Fallen banana leaf near stream in domestic area. *Li. asulleptus*, *Li. durhamii*.

205. Loreto, Leticia, about 6km from "Bella Vista, Callaru River," 80m; 12 Jun 75, CG. Epiphytic bromeliads; 1-2m above river. *Cx. (Mcx.)* sp undetermined.

206. Loreto, Leticia, about 1.5km from "Bella Vista" and 0.8km from "Callaru River," 80m; 13 Jun 75, CG. Leaf axils of banana in plantation. *Wy. (Prs.)* sp undetermined.

207. Loreto, Leticia, about 1.5km N of "Bella Vista" and "Callaru River," 80m; 13 Jun 75, CG. Treehole along path; 1.5m above ground. No specimens.

208. Loreto, Leticia, near "Bella Vista" and about 1.5km from "Callaru River," 80m; 13 Jun 75, CG. Fallen pods ("matamata" pods, 4-5cm wide). *Cx. (Car.) urichii* subgroup, *Li. ?asulleptus*.

209. Loreto, Leticia, near "Bella Vista," "Callaru River," 80m; 13 Jun 75, CG. Epiphytic bromeliad; 2.5m above river. *Cx. (Mcx.)* sp undetermined.

210. Loreto, Leticia, about 0.8km inland from "Bella Vista" and "Callaru River," 80m; 15 Jun 75, CG. Flower bracts of *Heliconia*. *Wy. (Dec.)* sp undetermined.

211-213. Not available.

214. Loreto, Leticia, about 1.5km N of "Bella Vista," and about 0.8km from "Callaru River," 80m; 15 Jun 75, CG. Fallen bamboo in banana plantation. *Cx. (Car.) bonnei*, *Li. asulleptus*, *Li. durhamii*.

215. Loreto, Leticia, about 1.5km N of "Bella Vista," and about 0.8km from "Callaru River," 80m; 15 Jun 75, CG. Fallen banana leaf in plantation. *Li. asulleptus*, *Li. durhamii*.

PER Locality Index

AMAZONAS

Bagua Chica (=Bagua, 5°40'S, 78°32'W, about 30km E of Jaen, on Rio Utcubamba), 400m.—101, 102.

CAJAMARCA

Ventanillas (17MPM9296, village about 20km SE of Chepen, on Rio Jequetepeque), 250m, and vicinity. Rio Jequetepeque, 250m.—103. About 1km N of Ventanillas, 250m.—24.

JUNIN

Tarma (11°25'S, 75°42'W, about 30km NE of La Oroya), vicinity of. "Opposite 344 Potero," 3000m.—6, 7.

LA LIBERTAD

Chepen (17MPN7301, town about 25km NE of Pacasmayo), vicinity of. "Cas. Mampoche," 100m.—118.

San Ildefonso (17LQL4471, hacienda about 5km NW of Viru), 50m.—109, 110, 111.

San Pedro de Lloc (17MPM6579, town about 7km SE of Pacasmayo), 50m.—104.

PER Locality Index

LORETO

"*Bella Vista*" ("Ticuna Indian village about 10mi. N of mouth of Callaru River," cannot locate this locality on maps or in gazetteer, but apparently near Leticia, Colombia), 80m, and vicinity.—201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 214, 215.

Iquitos (3°46'S, 73°15'W, capital of Loreto, on Rio Amazonas), 100m.—1, 106, 107.

"*San Francisco Amazonas*" (on Rio Amazonas, cannot locate this locality on map or in gazetteer, but may be Francisco de Orellana about 80km downstream from Iquitos), 100m, vicinity of.—2, 3.

LIMA

Lima (12°03'S, 77°03'W, capital of Peru, on Pacific coast), district of. Pueblo Libre (18LTM7564), 80m.—4.

Matucana (11°51'S, 76°24'W, about 70km E of Lima), vicinity of. 0.8km S of train station and 30 m S of Rio Rimac, 2400m.—5.

PIURA

Mallares (17MNQ2562, hacienda about 10km W of Sullana), 50m.—18.

Piura (17MNQ4125, capital of Piura, on Rio Piura) and vicinity of. In Piura, 10m.—25. "Aguas Negras," 10m.—8, 9, 10, 19, 20, 21, 22, 23. Rio Piura at "Bolognesi bridge," 10m.—11. Rio Piura between "Sancho Cerro bridge and Bolognesi bridge," 10m.—12.

Sullana (17MNQ3559, town about 30km N of Piura), just NW of. Carretera Panamericana at turn-off to Marcavelica (17MNQ3360), 50m.—17.

Querecotillo (17MNQ3965, town about 5km NE of Sullana), about 3km N of. Hualtaca (17MNQ 3969), 70m.—13.

TUMBES

Tumbes (3°34'S, 80°28'W, capital of Tumbes, on Rio Tumbes), vicinity of. "Playa Hermosa," near sea level.—15, 16. Rio Tumbes, 300m W of main bridge, 10m.—14.

PER Species Index

Aedes (Ochlerotatus) scapularis (Rondani 1848).—10, 14, 16, 17, 23, 109, 111.

Aedes (Ochlerotatus) taeniorhynchus (Wiedemann 1821).—14, 16.

Anopheles (Anopheles) pseudopunctipennis Theobald 1901.—12, 18, 24, 104, 109, 110, 111, 118.

Anopheles (Nyssorhynchus) albimanus Wiedemann 1820.—18.

Anopheles (Nyssorhynchus) sp undetermined.—111.

Culex (Carrollia) bonnei Dyar 1921.—202, 214.

*Culex (Carrollia) infoliatu*s Bonne-Wepster and Bonne 1920.—203.

Culex (Carrollia) urichii subgroup *sp* undetermined.—202, 203, 208.

Culex (Culex) debilis (Dyar and Knab 1914).—5.

Culex (Culex) ?interrogator Dyar and Knab 1906.—8, 9, 19, 20, 21, 22, 23, 25.

Culex (Culex) nigripalpus Theobald 1901.—8, 13, 20, 21, 22, 25, 104, 109, 111.

Culex (Culex) quinquefasciatus Say 1823.—?4, 101, 102, 118.

Culex (Culex) sp 61: possibly *archegus*.—6, 7.

Culex (Culex) sp undetermined.—5, 25, 106, 107, 111.

Culex (Melanoconion) erraticus (Dyar and Knab 1906).—18, 109, 111, 118.

Culex (Melanoconion) sp undetermined.—106.

Culex (Microculex) sp undetermined.—205, 209.

Deinocerites pseudus Dyar and Knab 1909.—15.

Limatus asulleptus (Theobald 1903).—203, 204, ?208, 214, 215.

Limatus durhamii Theobald 1901.—204, 214, 215.

Limatus sp undetermined.—202.

Mansonia (Mansonia) sp undetermined.—2, 3, 106, 107.

Psorophora (Grabhamia) confinnis group: *confinnis* or related *sp*.—14.

Sabethes sp undetermined.—202.

PER Species Index

- Trichoprosopon (Trichoprosopon) digitatum* (Rondani 1848).—203.
Wyeomyia (Decamyia) sp undetermined.—201, 210.
Wyeomyia (Prosopolepis) sp undetermined.—206.
Wyeomyia sp undetermined.—202, 203.

CHILE

Code: CH

The collections from Chile are recognized by the following printed label: //CH[handwritten 1-14, 100-121]/Chile 64-65[modified to 66 for 100-120, and to 68 for 121]/Mosq Mid Amer//. The elevations for those localities that are *not* designated by UTM grid coordinates are only approximate, and may be in error by 200m or more.

Maps and Gazetteers Used for CH

- World 1:5,000,000, series 1106, sheet 14, ed. 3-AMS.
 World 1:250,000, series 1501, sheets SF 19-10, SJ 18-8, ed. 1.
 Chile 1:50,000, series J701, sheets 2654-1, 2754-3, -4, ed. 1-DMATC.
 U. S. Board on Geographic Names, Gazetteer no. 6, Chile, 1967.

CH Collectors

| | | | | | |
|----|---------------------|----|------------------|----|-----------------|
| JB | John N. Belkin | TH | Thomas R. Howell | LP | Luis E. Pena G. |
| HG | Roberto H. Gonzalez | MI | M. E. Irwin | | |
| NH | Nelson Hichins O. | MM | M. A. Mattar | | |

Summary of CH Collections

| | | | |
|------------|-------------------|-----------------------|--|
| CH 1-14 | Jan-Mar 1964 | LP | Santiago, Valparaiso |
| CH 15-99 | Not used | | |
| CH 100-120 | 27 Jan-3 Apr 1966 | JB, HG, NH, MI, MM | Bio-Bio, Llanquihue, Malleco, O'Higgins, Osorno, Santiago, Valdivia, Valparaiso |
| CH 121 | Dec 1968 | TH | Antofagasto |

CH Collection Records

1. Santiago, Santiago, 500m; LP. Larval rearings. *Cx. (Cux.) apicinus*, *Cx. (Cux.) articularis*.
2. Santiago, Santiago, 500m; LP. Pupal rearings. *Cx. (Cux.) serotinus*, *Cx. (Cux.)* sp undetermined.
3. Santiago, Santiago, 500m; LP. Pupal rearing. *Cx. (Cux.) annuliventris*.
4. Santiago, Santiago, 500m; Jan 64, LP. Immatures. *Cx. (Cux.) annuliventris*.
5. Santiago, Santiago, 500m; Jan 64, LP. Mass rearings. *Cx. (Cux.) annuliventris*, *Cx. (Cux.) apicinus*.
6. Santiago, Santiago, 500m; Jan 64, LP. Adults. *Cx. (Cux.) annuliventris*, *Cx. (Cux.) ?dolosus* group.
7. Santiago, Santiago, 500m; 20-31 Jan 64, LP. Pupal rearings. *Cx. (Cux.) apicinus*.
8. Santiago, Santiago, 500m; Feb 64, LP. Pupal rearings. *Cx. (Cux.) annuliventris*, *Cx. (Cux.) apicinus*.
9. Valparaiso, Valparaiso, "Marga Marga," ?10m; Feb 64, LP. Larval rearings. *Cx. (Cux.) annuliventris*, *Cx. (Cux.) apicinus*, *Cx. (Cux.) articularis*, *Cx. (Cux.) dolosus* group.
10. Santiago, Santiago, 500m; Mar 64, LP. Rearings. *Cx. (Cux.) annuliventris*, *Cx. (Cux.) serotinus*.
11. Santiago, Santiago, 500m, and Valparaiso, Valparaiso, "Marga Marga," ?10m; Mar 64, LP. Adults. *Cx. (Cux.) apicinus*.

CH Collection Records

12. Valparaiso, Valparaiso, "Marga Marga," ?10m; Mar 64, LP. Larval rearings. *Cx. (Cux.) annuliventris*, *Cx. (Cux.) apicinus*.
13. Santiago, Santiago, 500m; LP. Immatures. *Cx. (Cux.) apicinus*, *Cx. (Cux.) serotinus*.
14. Locality not known; LP. Mass rearings. *Cx. (Cux.) annuliventris*, *Cx. (Cux.) apicinus*.
- 15-99. Not used.
100. Valparaiso, Quintero, less than 100m; 27 Jan 66, JB. Small ground pool in open grazing area at edge of patch of forest; water permanent-semipermanent, clear, stagnant, fresh; a little grassy, herbaceous vegetation; bottom with mud, plant debris; partial shade. *Cx. (Cux.) dolosus* group.
101. Santiago, Tiltil, about 4-5km W of, on road to Cuesta La Dormida (19HCD1639), 800m; 27 Jan 66, JB. Ground pools fed by spring in grazing area; water permanent-semipermanent, turbid, with slow current, fresh; flottage present, no vegetation; bottom with mud; full sun. *Ae. (Och.) albifasciatus*, *Cx. (Cux.) apicinus*, *Cx. (Cux.) dolosus* group.
102. Santiago, Tiltil, about 4-5km W of, on road to Cuesta La Dormida (19HCD1639), 800m; 27 Jan 66, JB. Blocked stream in grazing area; water permanent-semipermanent, turbid, stagnant, fresh; a little flottage, grassy, herbaceous vegetation; bottom with mud, plant debris. *Cx. (Cux.) apicinus*, *Cx. (Cux.) articularis*.
103. O'Higgins, Santa Cruz, Huique, 380m; 29 Jan 66, HG. Adults biting-landing on man in domestic area; 1200-1215hrs; full sun. *Ae. (Och.) albifasciatus*.
104. O'Higgins, Santa Cruz, Huique, 380m; 29 Jan 66, HG. Small ground pool along road in plantation; water semipermanent-temporary, turbid, stagnant, fresh; a little scum, grassy vegetation; bottom with mud, leaves; partial shade. *Ae. (Och.) albifasciatus*, *Cx. (Cux.) dolosus* group.
105. O'Higgins, Santa Cruz, Huique, 380m; 29 Jan 66, HG. Adults biting-landing on man and resting on flower in cultivated area; 1500-1800hrs. *Ae. (Och.) albifasciatus*.
106. O'Higgins, Santa Cruz, Huique, 380m; 29 Jan 66, HG. Adults biting-landing, resting and at light in domestic area; 2100-2130hrs. *Ae. (Och.) albifasciatus*, *Cx. (Cux.) dolosus* group.
107. O'Higgins, Santa Cruz, Huique, 360m; 30 Jan 66, HG. Adults biting-landing on man at light in *Eucalyptus* grove near rice field; 2145-2200hrs. *Ae. (Och.) albifasciatus*, *Cx. (Cux.) annuliventris*, *Cx. (Cux.) dolosus* group.
108. O'Higgins, Santa Cruz, El Salto de Almahue, 360m; 30 Jan 66, JB. Adults biting-landing on man in plantation; 1200hrs; full sun. *Ae. (Och.) albifasciatus*, *Cx. (Cux.) annuliventris*.
109. Valdivia, Rio Bueno, 20km N of on hwy., 200m; 8 Feb 66, HG. Animal tracks at edge of stream in grazing area; water permanent, turbid, with slow current, fresh, slimy; a little scum, herbaceous vegetation; bottom with mud, plant debris; partial shade. No specimens.
110. Osorno, Puerto Octay, Centinela, 50m; 9 Feb 66, MI. Marshy seepage; water permanent, clear, stagnant, fresh; no vegetation; bottom with mud, leaves; deep shade. No specimens.
111. Llanquihue, Puerto Montt, 15km SW of on hwy., 50m; 10 Feb 66, HG. Animal tracks in forest; water temporary, turbid, stagnant, fresh; abundant grassy vegetation; bottom with mud, feces; partial shade. No specimens.
112. Llanquihue, Puerto Montt, 15km SW of on hwy., 50m; 10 Feb 66, MI. Large ground pool along road; water permanent, clear, stagnant, fermenting; a little flottage, bottom with mud, leaves; partial shade. No specimens.
113. Llanquihue, Puerto Montt, "Pargua," 10m; 10 Feb 66, HG. Animal tracks in marshy depression; water semipermanent, clear, with slow current, fresh; a little scum, herbaceous vegetation; bottom with mud, feces; full sun. No specimens.
114. Malleco, Collipulli, Rio Renaico at Carretera Panamericana, Esperanza (18HYD3008), 140m; 14 Feb 66, HG. Small ground pool; water semipermanent, clear, stagnant, fresh, foul; algae present; bottom with sand; partial shade. No specimens.
115. Bio-Bio, Los Angeles, Salto del Laja (18HYD3378), 135m; 14 Feb 66, HG. Riverside rock-hole; water clear; partial shade. *Cx. (Cux.) apicinus*.
116. Santiago, Maipu, Rinconada de Maipu, Estacion Experimental Agronomica (19HCC2693), 470m; 19 Feb 66, HG. Adults biting-landing and in malaise trap in cultivated area; 1900hrs. *Ae. (Och.) albifasciatus*, *Cx. (Cux.) annuliventris*, *Cx. (Cux.) dolosus* group.

CH Collection Records

117. Santiago, Maipu, Rinconada de Maipu, Estacion Experimental Agronomica, Quebrada La Plata (19HCC2392), 600m; 20 Feb 66, HG. Adults biting-landing on man near stream; 1500hrs; full sun. *Ae. (Och.) albifasciatus*.

118. Valparaiso, Quillota, La Cruz, 135m; 4 Mar 66, MM. Well in cultivated area; water permanent, clear, fresh; no vegetation; bottom with sand; partial shade. *Cx. (Cux.) apicinus*.

119. Santiago, Maipu, Rinconada de Maipu, Estacion Experimental Agronomica (19HCC2693), 470m; 22 Feb-9 Mar 66, NH. Adults biting-landing and from Malaise trap in cultivated area; full sun. *Ae. (Och.) albifasciatus*, *Cx. (Cux.) annuliventris*, *Cx. (Cux.) dolosus* group.

120. Santiago, Maipu, Rinconada de Maipu, Estacion Experimental Agronomica (19HCC2693), 470m; 24 Mar-3 Apr 66, NH. Adults biting-landing and from Malaise trap in cultivated area; full sun. *Ae. (Och.) albifasciatus*, *Cx. (Cux.) annuliventris*, *Cx. (Cux.) dolosus* group.

121. Antofagasta, Maria Elena, Pedro de Valdivia (19KDR3000), 1450m; Dec 68, TH. Pond with sewage. No mosquitoes.

CH Locality Index

ANTOFAGASTA

Pedro de Valdivia (19KDR3000, about 30km S of Maria Elena), 1450m.—121.

BIO-BIO

Salto del Laja (18HYD3378, falls on Rio Laja about 30km N of Los Angeles), 135m.—115.

LLANQUIHUE

Puerto Montt (41°28'S, 72°57'W, capital of Llanquihue), vicinity of. 15km SW of Puerto Montt on highway, 50m.—111, 112. "Pargua," 10m.—113.

MALLECO

Esperanza (18HYD3008, Rio Renaico at Carretera Panamericana, about 12km N of Collipulli), 140 m.—114.

O'HIGGINS

El Salto de Almahue (34°25'S, 71°15'W, near Santa Cruz), 360m.—108.

Huique (=San Francisco del Huique, 34°27'S, 71°23'W, near Santa Cruz), 360-380m.—103, 104, 105, 106, 107.

OSORNO

Centinela (40°58'S, 72°54'W, near Puerto Octay), 50m.—110.

SANTIAGO

Maipu (19HCC3692, just SW of Santiago), vicinity of. Rinconada de Maipu, Estacion Experimental Agronomica (19HCC2693), 470m.—116, 119, 120. Rinconada de Maipu, Estacion Experimental Agronomica, Quebrada La Plata (19HCC2392), 600m.—117.

Santiago (33°27'S, 70°40'W, capital of Chile), 500m, vicinity of. Not specified.—1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 13.

Tiltit (19HCD2038, town about 40km NW of Santiago), vicinity of. About 4-5km W of Tiltit on road to Cuesta La Dormida (19HCD1639), 800m.—101, 102.

VALDIVIA

Rio Bueno (40°19'S, 72°58'W, about 15km SE of La Union), 20km N of on highway, 200m.—109.

VALPARAISO

La Cruz (32°50'S, 71°14'W, near Quillota), 135m.—118.

"Marga-Marga," ?10m.—9, 11, 12.

Quintero (32°47'S, 71°32'W, about 30km N of Valparaiso), less than 100m.—100.

CH Species Index

- Aedes (Ochlerotatus) albifasciatus* (Macquart 1838).—101, 103, 104, 105, 106, 107, 108, 116, 117, 119, 120.
Culex (Culex) annuliventris (E. Blanchard 1852).—3, 4, 5, 6, 8, 9, 10, 12, 14, 107, 108, 116, 119, 120.
Culex (Culex) apicinus Philippi 1865.—1, 5, 7, 8, 9, 11, 12, 13, 14, 101, 102, 115, 118.
Culex (Culex) articularis Philippi 1865.—1, 9, 102.
Culex (Culex) dolosus group: *dolosus* or related sp.—?6, 9, 100, 101, 104, 106, 107, 116, 119, 120.
Culex (Culex) serotinus Philippi 1865.—2, 10, 13.
Culex (Culex) sp undetermined.—2.

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