

## Recent Literatures : Entomology

**Huang, Yiau-Min**

1972. Contributions to the Mosquito Fauna of Southeast Asia XIV.  
The subgenus *Stegomyia* of *Aedes* in Southeast Asia I—  
The *scutellaris* group of species.

Contr. Amer. ent. Inst. 9 (1) 109 pp.

The present paper deals with 16 species of the *scutellaris* group which are *albopictus*, *downsi*, *flavopictus*, *novalbopictus*, *patriciae pseudalbopictus*, *seatoi*, *subalbopictus*, *alcasidi*, *alorensis*, *andrewsi*, *hensilli*, *malayensis*, *paullusi*, *riversi*, *scutellaris*. Among these 12 are definitely known to occur in the Southeast Asia area, 1 species may occur and 3 others, which are unlikely to be found, are treated here for comparison.

**McClure, H.E., N. Ratanaworabhan, K.C. Emerson, H. Hoogstraal, N. Nachatram, P. Kwanyuen, W.T. Atyeo, T.C. Maa, N. Wilson, L. Wayupong**

1973. Some ectoparasites of the birds of Asia. 219 pp.

During the period July 1963 to July 1971 ectoparasites were collected from the birds of eastern Asia: Korea, Japan, Taiwan, Hong Kong, Philippines, Thailand, Borneo, Indonesia, Singapore and India. From the more than 15,000 collections there are 238 genera and 564 species of arthropods represented. The number of avian hosts examined included 743 species. Of the parasite species Acarina made up 34.3%, Mallophaga 53% and Hippoboscidae 9.5%. Annotated lists of the host-parasite and the parasite-host relationships are given.

**Ratanaworabhan, N.C. and W.W. Wirth**

1972. The biting midge genus *Monohalea* Kieffer in the oriental region.

Pacific Insects 14 (3) : 440-473.

The Oriental species of the genus *Monohalea* Kieffer are classified and characterized into 4 groups: *hieroglyphica*, *multilineata*, *tessellata*, and *inflativena* Groups. A key is presented for the identification of the 22 known Oriental species, of which the following 18 are described as

new : *ampligonata*, *arcuata*, *basilobata*, *brinchangensis*, *comptostyla*, *capitata*, *chelagonata*, *digitata*, *macclurei*, *nigripes*, *orientalis*, *pahangensis*, *parafurcata*, *quatei*, *scanloni*, *superlobata*, *tenuilobata*, and *whartoni*. Descriptions and figures are given for all 22 Oriental species.

**Reinert, J.F.**

1972. Contributions to the mosquito fauna of Southeast Asia. XV—Genus *Aedes* Meigen, subgenus *Ayurakitia* Thurman. Contr. Amer. ent. Inst. 9 (2) : 42 pp.

The subgenus *Ayurakitia* Thurman of *Aedes* is defined, discussed and compared to related subgenera. Descriptions, illustrations and keys are given for the known stages of the 2 included species, *peytoni*, new species and *griffithi* Thurman.

1973. Contributions to the mosquito fauna of Southeast Asia. XVI—Genus *Aedes* Meigen, subgenus *Aedimorphus* Theobald. Southeast Asia. Contr. ent. Inst. 9 (5) : 218 pp.

This paper is a comprehensive revision of the *Aedes* (*Adimorphus*) in Southeast Asia and deals with 14 species and 1 subspecies. These species are completely described and compared with closely related forms occurring in the Pacific Islands and Oriental Zoogeographical Regions. Pupae of *caecus*, *culicinus*, *mediolineatus*, *orbitae*, *pampangensis* and *pipersalatus*, larvae of *culicinus* and *orbitae* and the egg of *mediolineatus* are described for the first time. Stages and genitalia of the following species are also illustrated for the first time : *alboscuteclatus* male; *caecus* female genitalia, male and pupa; *culicinus* female, female genitalia, male, pupa and larva; *lowisii* female genitalia; *mediolineatus* female genitalia, male, pupa and egg; *nigrostriatus* female, female genitalia and male; *orbitae* female, female genitalia, male, male genitalia, pupa and larva; *pallidosriatus* female and female genitalia; *pampangensis* female genitalia and pupa; *pipersalatus* female genitalia, male and pupa; *punctifemoris* female, female genitalia and male; *stenoetrus* female genitalia and male; and *taeniorhynchoides* female genitalia and male. Keys to the adults (including *stenoetrus* and *taeniorhynchoides*), pupae and larvae of Southeast Asian species are given.

New synonyms in this paper are: *lowisii* (= *mindoroensis*); *pampangensis* (= *niveoscutellum*); and *vexans* (= *nocturnus*). Lectotypes for *lowisii*, *nigrostriatus*, *orbitae* and *pallidostriatus* and a neotype for *pampangensis* are designated. *Aedes stenoetrus* and *taeniorhynchoides* are excluded from the fauna of Southeast Asia.

**Sirivanakarn, S.**

1972. Contributions to the mosquito fauna of Southeast Asia. XIII—The Genus *Culex* subgenus *Eumelanomyia* Theobald in Southeast Asia and adjacent areas.  
Contr. Amer. Ent. Inst. 8 (6) : 86 pp.

The present study is a revision of the *Eumelanomyia* from Southeast Asia. The species which are known only from adjacent areas, such as India and Ceylon are also included in this revision for comparative purposes and for characterizing the whole Oriental fauna. The emphasis in this attempt is to diagnose, describe and illustrate all available stages as well as to determine the affinities and to provide more complete distribution records of all species within the areas. In this paper, 27 *Eumelanomyia* species are recognized and of these, 3 are new and 24 are revalidated and redescribed. Five of the previously named forms are considered here as synonyms. These are: *chiyutoi* Baisas and *shrivastavii* Wattal, Kalra and Krishnan as synonyms of *foliatus* Brug; *culionicus* Delfinado as a synonym of *hinglungensis* Chu; *tricontus* Delfinado as a synonym of *cataractarum* Edwards and *lini* Lien as a synonym of *okinawae* Bohart.

**Wirth, W.W. and N.C. Ratanaworabhan**

1972. A revision of the Tribe Stenoxenini (Diptera : Ceratopogonidae).  
Ann. Ent. Soc. Amer, 65 (6) : 1368-1388.

The tribe Stenoxenini, which includes the genera *Stenoxenus* Coquillett and *Paryphoconus* Enderlein, is redefined; diagnoses, illustrations, and a key are given to these genera. A key is presented to the 18 known species of *Stenoxenus*, including 6 new species: *arcuatus*, *blantoni*, *lanei*, and *marginalis* from Panama, *limpidus* from Costa Rica, and *stenopterus* from the Philippines. *Stenoxenus insigninervis* Macfie is a junior synonym

of *coomani* Seguy (new synonymy). A key is given to the 26 known species of *Paryphoconus*, including a new species, *sonorensis*, from Mexico and Oklahoma. *Paryphoconus guianae* Macfie is placed as a synonym of *P. terminalis* (Coquillett) (new combination and new synonymy). New distribution records are presented and numerous species are figured.

**Slooff, R. and J. Verdrager**

1972. *Anopheles balabacensis balabacensis* Baisas 1963 and Malaria Transmission in South-Eastern area of Asia.

World Health Organization Report, 26 pp.

A review is made of the information available up to 1971 on *Anopheles balabacensis balabacensis*. The data refer to the geographical distribution and bionomics of this malaria vector as well as to the description of the environment, and the socioeconomic conditions and human ecology found in the malarious areas where *A. b. balabacensis* is the main vector of malaria. Such a review was justified in view of the fact that the antimalarial measures so far applied in these areas were only partially successful in interrupting malaria transmission. Field research on the causes of persisting transmission is systematically continued in a number of countries. This paper is thus intended to provide those investigators with the available information collected under various environmental conditions as encountered in a number of areas where this vector is present.

*Niphan Ratanaworabhan*