A PICTORIAL KEY TO THE MOSQUITO LARVAE OF THE SEYCHELLES

Eugene J. Gerberg and Ross H. Arnett, Jr.*

The Seychelles are a group of predominantly granitic islands lying in the Indian Ocean approximately 1,000 miles east of the African coast and 2,000 miles southwest of Sri Lanka. The remoteness of the Seychelles from mainland biota limits the number of species that can populate these islands. This same remoteness also has prevented their thorough study by biologists prior to the influx of tourists. The destruction of the natural ecosystem on the islands is a great biological loss.

Most likely the islands were formed from a crest or ridge of land left behind when India and Africa separated during the drifting of these continents. These are the only granitic oceanic islands in the world. The question remains: Does any part of the present day biota represent the continental species that remained on the islands during drifting, or were the islands submerged? The species now inhabiting the islands are of three possible types: archaic remains of the continental biota; 2) invasions from India or Madagascar (which species from which area?), or 3) autochthonous. The following list of mosquito species are tentatively evaluated in this manner.

Mattingly and Brown (1955) reviewed the mosquitoes of Seychelles including historical references, and listed 13 species from the Seychelles proper. The following species were collected by the authors during the period of 8-15 August 1974 on the islands of Mahe and Praslin. The geographical distribution of the species is given in brackets after the name. This is as recorded in Stone, Knight, and Starcke, 1959.


*Aedes albopictus* (Skuse) [Oriental Region; Australia; New Guinea, Mariana IsI.; Hawaii; Japan; French Somaliland; Madagascar] Mahe: San Souci, 9 Aug 74 in rockhole; Victoria Botanical Gardens, 11 Aug 74 in leaf axil.

*Aedes vigilax* van Someren [Autochthonous]. Mahe: Port Glaud, 12 Aug 74 in brackish water rock hole.


*Culex simpsoni* Theo. [Ethiopian Region]. Mahe: Rochon Dam, Filter Plant, 9 Aug 74, at edge of dam; Northpoint, 10 Aug 74 in swampy pond.

*Culex stellatus* van Someren [Autochthonous]. Mahe: St. Louis Hill, 13 Aug 74 in tire.


*Uranotaenia nepenthes* (Theo.) [Seychelles and Madagascar]. Mahe: Sans Souci, 9 Aug 74, in flower bracts of Nepenthes sp. Note: the species of the pitcher-plant family *Nepenthaceae* are distributed from Madagascar to Sri Lanka, Burma, Malaya, northern tip of Australia to New Caledonia which shows the close relationship between Madagascar and the Indo-Malayan region.


In summary, 1 species is cosmotropical; 2 also occur in Africa; 4 are found in the Indo-Malayan region; and 3 are autochthonous. Obviously no satisfactory conclusions can be drawn from these data as to the origin of the Seychelles fauna.

The pictorial key to the larvae includes 12 of the 14 species reported the Seychelles. Not included in the key are: *Culex scotti* Theo. [autochthonous] and *Culex wigglesworthi* Edw. [known from Central Africa, but not Madagascar]. The larva of *C. scotti* is unknown and *C. wigglesworthi* has been reported only once from Praslin. *C. wigglesworthi* would key to *C. simpsoni*, from which it can be differentiated by the comb scales.

*1 Biological Research Institute of America, 1330 Dillon Heights Ave., Baltimore, MD 21228.*
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REFERENCES

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SIPHON attenuated, with sclerotized saw-toothed projection at tip
SIPHON cylindrical or spindle-shaped, not attenuated at tip

Mansonia uniformis

MAXILLARY SUTURE absent or incomplete
MAXILLARY SUTURE reaching posterior tentorial pit

Uranotaenia

THORAX AND ABDOMEN with many stellate hairs. SIPHON with many long spines
LATERAL SETAE fine, pale. COMB AND PECTIN SCALES denticulate

Uranotaenia browni

Uranotaenia pandani

Uranotaenia nepenthes

Culex

Aedes
THORAX AND ABDOMEN with stellate hairs

Culex

SETAE single, branched, not stellate

SIPHON 7 X long as wide. HEAD SETAE 1-2 branches

SIPHON not more than 5 X long as wide. HEAD SETAE many branched

Culex stellatus

Culex simpsoni

Culex fatigans

Culex

Aedes

SIPHON cylindrical and pale

SIPHON not cylindrical

VENTRAL BRUSH with tufts outside barred area

VENTRAL BRUSH with no tufts outside barred area

VENTRAL BRUSH of branched setae

VENTRAL BRUSH of single setae

Aedes lambrechti

Aedes aegypti

Aedes albopictus

Aedes

Aedes albocephalus

Aedes vigilax vansomerenae