

## 103. Family CANACIDAE

By Wayne N. Mathis

**T**he family Canacidae, more commonly known as beach flies, comprises slightly more than 100 described species that occur primarily along seashores where their larvae develop on marine algae. In Hawaii, Nepal, New Guinea, and Zaire some species of the genera *Procanace* and *Isocanace* have adapted secondarily to freshwater habitats.

Beach flies are small in size, mostly less than 3 mm, rarely more than 5 mm, and are generally

subdued in coloration, grayish to brownish. Superficially, they resemble some Ephydriidae and, for many years, were considered a subfamily of that family. Canacidae are probably related to Tethinidae, and the genus *Zalea* appears somewhat intermediate between the 2 families.

*Refs.:* Williams (1938a, biol.), Wirth (1951, keys, rev.), Mathis (1982, keys, rev.).

### Subfamily NOCTICANACINAE

#### Genus CANACEOIDES Cresson

*PROCANACE* Curran, 1934b: 160. Type species: *Procanace panamensis* Curran, 1934a, orig. des. [Preocc. Hendel, 1913.]

*CANACEOIDES* Cresson, 1934: 221. Type species: *Canace nudata* Cresson, 1926, orig. des.

*NEOCANACE* Curran, 1934d: 357 (n. n. for *Procanace*).

*angulatus* Wirth, 1969: 556. Hawaiian Is; Galapagos Is, Mexico, Peru.

*nudatus*, authors, not Cresson, 1926, misid.

*hawaiiensis* Wirth, 1969: 561. Hawaiian Is.

#### Genus NOCTICANACE Malloch

*NOCTICANACE* Malloch, 1933b: 4. Type species: *Nocticanace peculiaris* Malloch, 1933, orig. des.

*marshallensis* Wirth, 1951: 272. Marshall Is.

*peculiaris* Malloch, 1933b: 4. French Polynesia (Marquesas); French Polynesia (Austral Is, Gambier Is), Northern Marianas; Ryukyu Is.

*zimmermani* Wirth, 1951: 272. French Polynesia (Austral Is).

#### Genus PROCANACE Hendel

*PROCANACE* Hendel, 1913a: 93. Type species: *Procanace griseescens* Hendel, 1913, orig. des.

*acuminata* Hardy & Delfinado, 1980: 389. Hawaiian Is.

*bifurcata* Hardy & Delfinado, 1980: 392. Hawaiian Is.

*confusa* Hardy & Delfinado, 1980: 394. Hawaiian Is.

*constricta* Hardy & Delfinado, 1980: 396. Hawaiian Is.

*gressitti* Delfinado, 1970: 527. PNG (PNG).

*griseescens* Hendel, 1913a: 93. Taiwan; PNG (PNG); Japan, Nepal, Pakistan, Ryukyu Is, Seychelles, Thailand.

*macquariensis* Womersley, 1937b: 78. Macquarie Is.

*nigroviridis* Cresson, 1926a: 277. Hawaiian Is.

*novaeaguineae* Delfinado, 1970: 529. Indonesia (Irian Jaya).

*quadrisetosa* Hardy & Delfinado, 1980: 401. Hawaiian Is.

*townesi* Wirth, 1951: 255. Marshall Is.

**williamsi** Wirth, 1951: 257. Hawaiian Is; Japan.  
**wirthi** Hardy & Delfinado, 1980: 404. Hawaiian Is.

## Subfamily CANACINAE

### Tribe DYNOMIELLINI

#### Genus CHAETOCANACE Hendel

**CHAETOCANACE** Hendel, 1914a: 98. Type species: *Canace biseta* Hendel, 1913, orig. des.  
**brincki** Delfinado, 1975: 221. Sri Lanka; Australia (Qld).

#### Genus ISOCANACE Mathis

**ISOCANACE** Mathis, 1982: 11. Type species: *Isocanace briani* Mathis, 1982, orig. des.  
**albiceps** Malloch, 1925f: 87 (*Canace*). Australia (NSW); Australia (Qld).

#### Genus TRICHOCANACE Wirth

**TRICHOCANACE** Wirth, 1951: 252. Type species: *Trichocanace sinensis* Wirth, 1951, orig. des.  
**atra** Wirth, 1964b: 227. Australia (Qld); Philippines, Thailand.  
**marksae** Wirth, 1964b: 226. Australia (Qld).  
**sinensis** Wirth, 1951: 253. China; Australia (Qld); Madagascar, Malaysia (Pen), Thailand.

#### Genus XANTHOCANACE Hendel

**XANTHOCANACE** Hendel, 1914a: 98. Type species: *Canace ranula* Loew, 1874, orig. des.  
**DINOMYIA** Becker, 1926b: 107. Type species: *Canace ranula* Loew, 1874, mon.  
**MYIOBLAX** Enderlein, 1935a: 235. Type species: *Canace ranula* Loew, 1874, mon.  
**nigrifrons** Malloch, 1924f: 334. Australia (NSW).

## Subfamily ZALEINAE

### Genus ZALEA McAlpine

**ZALE** McAlpine, 1982b: 108. Type species: *Zale minor* McAlpine, 1982, orig. des. [Preocc. Hübner, 1818.]  
**ZALEA** McAlpine, 1985a: 82 (n. n. for *Zale*).  
**minor** McAlpine, 1982b: 110 (*Zale*). Australia (NSW).  
**major** McAlpine, 1982b: 112 (*Zale*). Australia (NSW).  
**horningi** Harrison, 1976: 143 (*Tethina*). NZ (NZ).