NOTES ON COLOR AND PATTERN OF EYE IN DIPTERA. II.1

By George C. Steyskal, Grosse Ile, Michigan.

The following notes continue those previously published on flies of the families Stratiromyiidae, Aulacigastridae, and Otitidae. An example of the taxonomic indications to be found in the eye pattern will be seen below in the resemblance in the patterns between Odinia boletina and Traginops irrorata, the latter long considered to belong to the Agromyzidae. Specific distinctions in the Stratiromyiidae will doubtless become of increasing value as data accumulates.

All material was killed in chloroform vapor and captured in southern Michigan, unless otherwise indicated.

BRACHYCERA ORTHORRHAPHA

Dolichopodidae

Hydrophorus agarina Wheeler, ♂♀. Eye plain olive-green.
H. amplectens Aldrich, ♂♀. Eye olive-green with small, indistinctly delimited, dorsal area of purple.
H. chrysologus Walker, ♂ (Fig. 1). Eye brownish green with a purple dorsal area and a purple antedorsal band separated by a green area.
Plagioneurus uninivittatus Loew, ♂♀ (Fig. 2). Eye green, becoming coppery dorsally and with a small area of indigo at ventral edge.

Empididae

Leptotesta compta Coq., ♀. Eye plain deep purple.
Rhamphomyia longicauda Loew, ♂♀. Eye plain dark olive-green.

Erinnidae

Sola pallipes Loew, ♂♀. Eyes plain greenish black.
Xylomyia americana Wied., ♂. Eyes plain dark olive-green.

Ragionidae

Chrysopilus quadratus Say, ♂♀. Eye in female plain oliv-green, in male with enlarged dorsal ommatidia dark brown, the lower smaller ommatidia olive-green.
Ragio vertebratus Say, ♀. Eye olive-green with purplish cast, especially anteriorly.

H. griseola Fallén, var. scapularis Loew, ♂♀. Eye olive-green to coppery grading to bright green on lower front side.

**Helomyzidae**

*Ameoba* defesa O.S., ♂. Eye plain dull brownish green.

*Suilla* quinquenotata Say, ♂♀. Eye reddish brown with greenish overcast.

**Lauxiidae**

*Homoneura* citrefrons Malloch, ♂. Eye bright green, a little bronzy reddish dorsally.

*Minettia ordinaria* Melander, ♂. Eye dark green, becoming purplish at edges.

*Sapromyza browni* Shevell, ♂. Eye plain dark brown with green reflections.

**Milichiidae**

*Milichiella populi* Steyskal, ♂. Eye plain dull brownish red with greenish reflections.

*Phloeomyia indecora* Loew, ♂. Eye plain dark brown with greenish overcast.

**Oidiidae**

*Oidia boletina* Zett., ♂ (Fig. 18). Eye brownish purple with greenish tinge, becoming plain green at each side of a horizontal purple band.

*Trognoos irrorata* Coq., ♂ (Fig. 19). Eye with two horizontal bands of green, the upper one the broader; between and dorsal of the bands, purple; ventral of the bands, blue.

**Otitidae**


*Delphinia picta* Fabr., ♂ (Fig. 20). Eye olive-green ventrally, a little above middle sharply becoming purple, then gradually shading dorsally into olive suffused with purple.


*Putorcola striata* Loew, ♂♀. Eye plain brownish with greenish reflection.


*Eucresta pheumani* Curran, ♂. Eye plain reddish purple with greenish glint.

*Setopectra vibrans* L., ♂♀. Eye plain dull red with greenish reflection.

**Piophilidae**

*Piophilota* forcellata Mg. (migriceps Mg.), ♂. Eye plain dark green.

*P. latipes* Mg., ♂♀. Eye plain dark red-brown with greenish cast.

**Psilidae**

*Chydia* apicalis Loew, ♂♀. Similar to *C. notata* (v.i.), but the ground color wholly brownish green and the indistinctly delimit stripe bluish green.

*C. notata* Loew, ♂♀ (Fig. 21). Eye in ground color brownish green below, more brownish toward occiput, or even reddish in male, dorsally reddish brown, across middle of eye with indistinct delimit horizontal band of plain green, broadening anteriorly.

*Pseudopsila* collaris Loew, ♂. Eye plain reddish purple.

*Loxocera cylindrica* Say, ♂♀. Eye plain dark red.

**Tanypezidae**

*Tanypeza lutipennis* Dyar and Knab, ♂. Eye plain dark red.

**Tylidae**

Rainieria antennaepe Say, ♂. Eye plain dark red.

*Taeniura* trivittata* Macq., ♂♀. Florida (Fig. 22). Eye green in ground color, dorsally with dark purple markings figured.

**Trypetidae**

*Euaresta bella* Loew, ♂♀. Eye bright metallic yellow-green.

*Euthera sparsa* Wied., ♂ (Fig. 23). Eye in ground color red dusky purple with a tinge of golden green at dorsal and ventral ex tumescent and crossed by three complete horizontal bands of golden green.

*Neastesia alba* Loew, ♂♀. Eye plain golden green.

*N. albidentennis* Loew and N. vernoni Loew, ♂♀. Eye plain metallic green when viewed obliquely, with strong coppery sheen when viewed perpendicularly to surface.

*Orella pallida* Loew, ♂. Eye plain golden green.

*Procecid...............* Macq., ♂. Eye with three vertical fascia of approximately equal width and also a partial stripe occupyin anterior angle of eye. The posterior or first stripe is purple with a bluish glint, the second is green and tapers to lower and upper margins of eye, the third is much like the first but more reddish and with less blue reflection, and the anterior area is white, while color also invades the anterior edge of the third fascia in tiny spots.


*Tomoplopa* oblique Say, ♂. Eye plain bright green with some coppery reflection.