

Identifying Females of *Ochlerotatus atlanticus* and *Oc tormentor* and Similar Species - Bruce Harrison

- a) Needed specimens with associated larval and pupal skins
- b) Species Identification
 - i) *Oc atlanticus* and *Oc tormentor*
 - (1) Similarities
 - (a) Median pale longitudinal stripe with straight margins on scutum
 - (b) Scales on head narrow
 - (c) Median pale longitudinal stripe on scutum
 - (d) Scales on head narrow
 - (e) Larval color patterns are the same
 - (2) Differences
 - (a) Can be separated using male genitalia
 - (b) Can be separated using larvae
 - (c) Female characteristics
 - (i) Head scale arrangement
 - 1. Dark scales behind eye
 - a. *Oc atlanticus* - reach eyes on both sides
 - b. *Oc tormentor* - do not reach the eyes
 - (ii) Width of median longitudinal white stripe on scutum just before prescutellar area
 - 1. *Oc atlanticus* - width remains the same throughout
 - 2. *Oc tormentor* - width narrows before it reaches the prescutellar area
 - ii) *Oc infirmatus*
 - (1) Pale scales on thorax do not go to prescutellar area
 - (2) Usually rubbed
 - (3) Larval color different than *Oc atlanticus* and *Oc tormentor*
 - iii) *Oc dupreei*
 - (1) Stripe wider, margins not straight
 - (2) Tiny species
 - (3) Head scales are wide
 - (4) Males have all pale scales on scutum
 - c) DNA analysis is being done
 - i) Hope to have primers for genetic analysis
 - ii) Paper should be forthcoming