

## 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