

# NEUROPTERA.—ODONATA.

## PLATE II.

[All the figures from drawings by Miss Amelia C. Smith, with the aid of microscope and camera lucida.]

Fig. 1-17. *Heterina americana*, Fabr. A superior and an inferior abdominal appendage of a male in each figure, to show variation in these structures; unless otherwise stated, the views are *oblique* and show the *upper* and *inner* surfaces of the appendages. The individual from which each figure was drawn has a pterostigma on the wings, unless its absence is expressly stated. The decimal following the explanation of each figure denotes the fractional part of the distance from base to nodus which is occupied by the basal red spot of the front wings in the individual from which the figure was made.

- Fig. 1. Right side. Texas (*A. N. S.*). ·67.  
 2. „ „ Round Mt., Texas (*coll. P. P. C.*). ·73. I believe that this represents the form of appendage in Walsh's *H. texana*.  
 3. „ „ Jojutla (*coll. P. P. C.*). ·6.  
 4. Left side. Texas (*M. C. Z.*). 1·17 (*i. e.*, red extending beyond the nodus).  
 5. „ „ Pecos River (*M. C. Z.*). ·91.  
 6. „ „ Acambaro. ·48.  
 7. „ „ California (*A. N. S.*). No pterostigma. ·87.  
 7*a.* „ „ Abdominal segment 10, on same scale as fig. 7, to show its relative length.  
 8. Right side. San Bernardino, California (*coll. P. P. C.*). No pterostigma. ·7.  
 9. „ „ California (*A. N. S.*). No pterostigma. ·89.  
 10. „ „ San Bernardino, California (*coll. P. P. C.*). No pterostigma. ·76.  
 11. „ „ Acambaro. ·42.  
 12. Left side. Guadalajara. ·65.  
 13. „ „ Profile view, inner surface. Acambaro. ·46.  
 14. Right side. Guatemala (*M. C. Z.*). ·45.  
 15. „ „ Chilpancingo. ·78.  
 16. Left side. Guadalajara. ·78. I believe that this represents the form of appendage in Walsh's *H. sclerata*.  
 17. „ „ Profile view, inner surface. Tucson, Arizona (*M. C. Z.*). ·48.  
 18. *Heterina infecta*, sp. n., ♂. Atoyac. Oblique\* view of left superior appendage.  
 19. *H. tolteca*, sp. n., ♂. Jalapa. Oblique view left sup. app.  
 20. *H. rudis*, sp. n., ♂. San Gerónimo. Oblique view left sup. and inf. apps.  
 21. *H. capitalis*, Selys, ♂. Volcan de Chiriqui. Oblique view left sup. app.  
 22. *H. miniata*, Selys, ♂, type. Chiriqui. Dorsal view left sup. app.  
 23. *H. majuscula*, Selys, ♂. Caché. Oblique view left sup. and inf. apps., and outline of 10th abd. seg.  
 24. *H. infecta*, sp. n., ♂ of fig. 18. Dorsal view left sup. and inf. apps., and outline of 10th abd. seg.  
 25. *H. tolteca*, sp. n., ♂ of fig. 19. Dorsal view left sup. and inf. apps., and outline of 10th abd. seg.  
 26. *H. rudis*, sp. n., ♂ of fig. 20. Dorsal view left sup. and inf. apps., and outline of 10th abd. seg.  
 27. *H. pilula*, sp. n., ♂. Teapa. Dorsal view left sup. and inf. apps.  
 28. *H. capitalis*, Selys, ♂ of fig. 21. Dorsal view left sup. app., and outline of 10th abd. seg.  
 29. *H. miniata*, Selys, ♂ of fig. 22. Oblique view left sup. app., and outline of 10th abd. seg.  
 30. *H. vulnerata*, Selys, ♂. Orizaba. Oblique view left sup. and inf. apps., and outline of 10th abd. seg.  
 31. *H. cruentata*, Rambur, ♂. Orizaba. Id.  
 32. *H. cruentata*, Rambur, ♂. Irazu. Id.  
 33. *H. fuscoguttata*, Selys, ♂. Bugaba. Dorsal view left sup. app., and outline of 10th abd. seg.  
 34. *H. fuscoguttata*, Selys, ♂ of fig. 33. Oblique view right sup. and inf. apps.  
 35. *H. pilula*, sp. n., ♂ of fig. 27. Profile view right sup. and inf. apps. and 10th abd. seg.

In fig. 1-35 the magnification is about 20.

\* Oblique in the explanation of this Plate means always a view showing the upper-inner surface.