

INTRODUCTION TO ODONATA



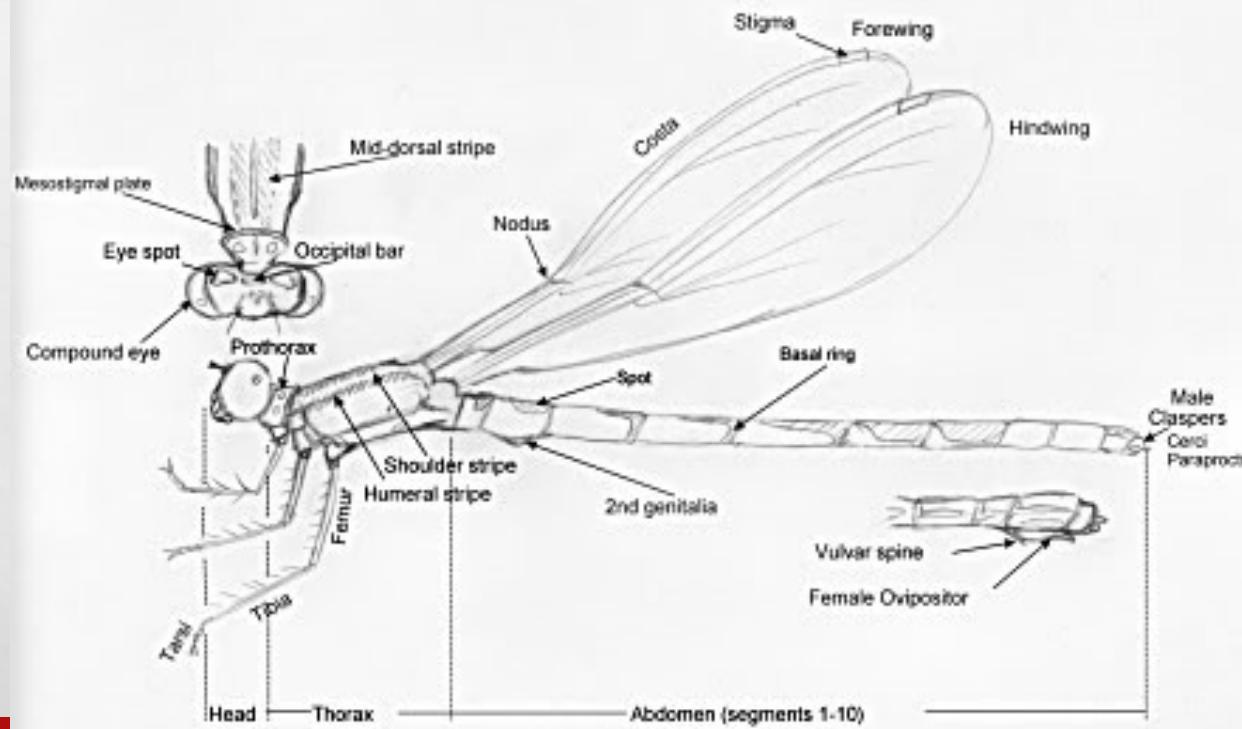
WHAT DO YOU MEAN ‘ODONATA’?

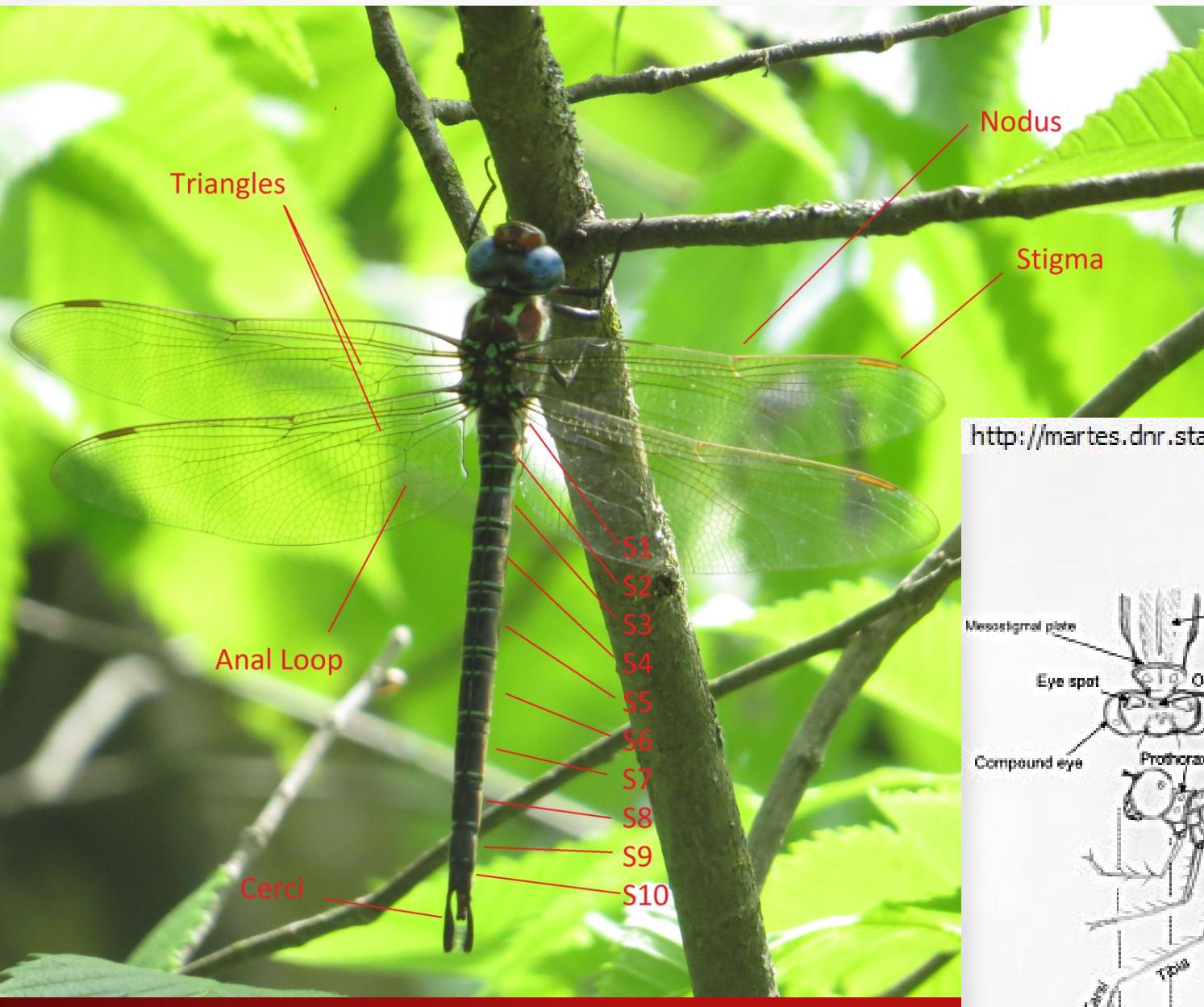
- ORDER OF INSECTS INCLUDING DRAGONFLIES AND DAMSELFLIES
- FIRST FOSSIL EVIDENCE APPEARS IN LATE CARBONIFEROUS
- MEANS ‘TOOTHED WING’
- SPLIT INTO TWO MAJOR EXTANT GROUPS
- ZYGOPTERA
- ANISOPTERA



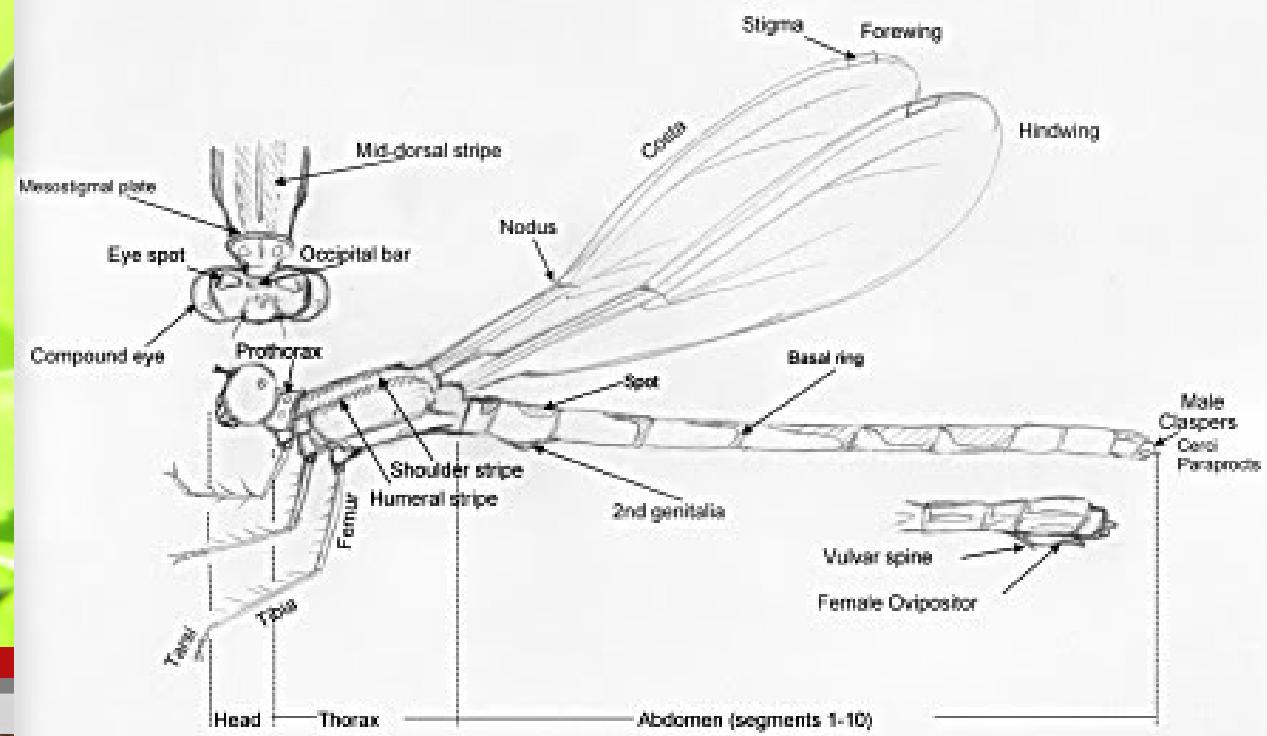
TOPOGRAPHY

<http://martes.dnr.state.wv.us/Odonata/Anatomy/DamselAnatomy.aspx>





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LIFE CYCLE

- INCOMPLETE LIFE CYCLE
- UP TO 7 YEARS BEFORE EMERGENCE



REPRODUCTION



REPRODUCTION





FEEDING





DAMSELFLIES -- ZYGOPTERA

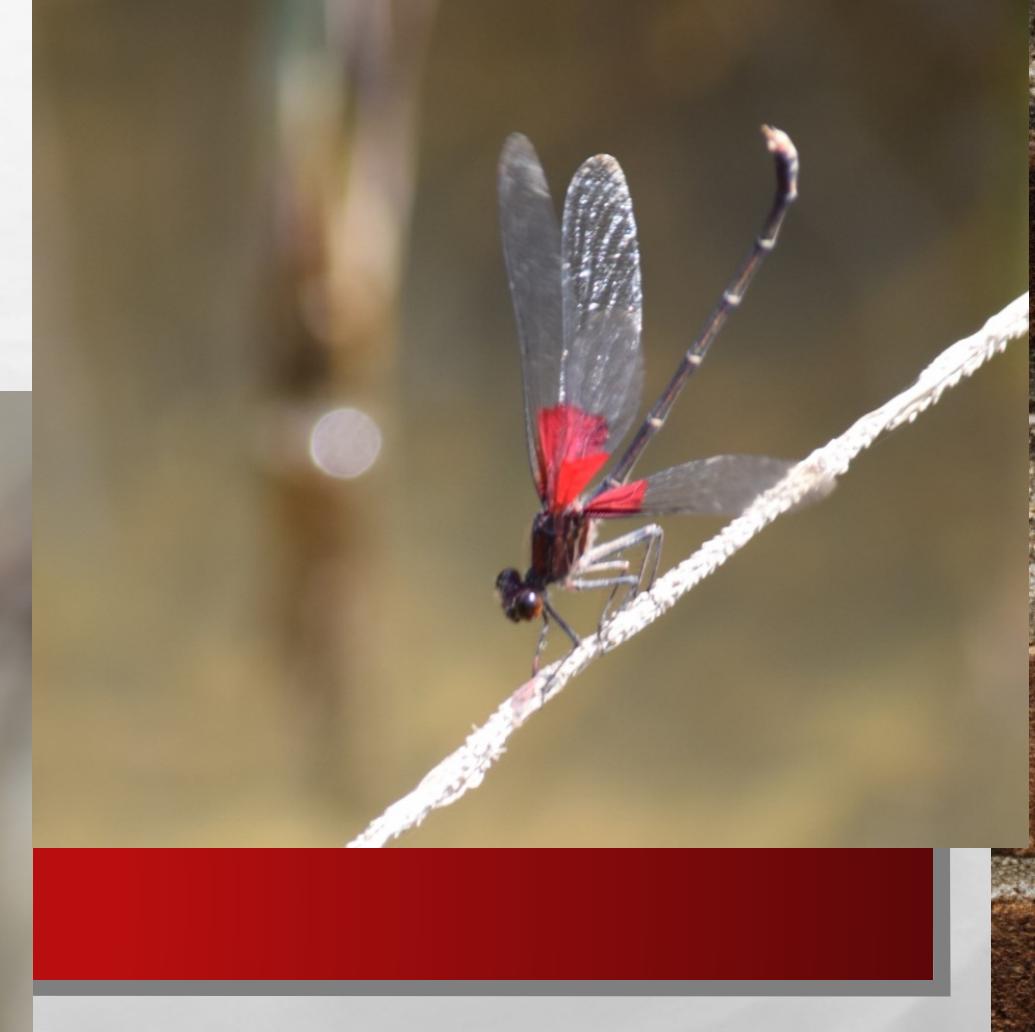
- **LESTIDAE – SPREADWING DAMSELS**
- **CALOPTERYGIDAE – BROAD-WINGED DAMSELS**
- **COENAGRIONIDAE – POND DAMSELS**



LESTIDAE – SPREADWING DAMSELS



CALOPTERYGIDAE – BROAD-WINGED DAMSELS



COENAGRIONIDAE – POND DAMSELFLIES



DRAGONFLIES -- ANISOPTERA

- PETALURIDAE – PETALTails
- AESHNIDAE – DARNERS
- GOMPHIDAE – CLUBTAILS
- CORDULEGASTRIDAE – SPIKETAILS
- MACROMIIDAE – CRUISERS
- CORDULIIDAE – EMERALDS
- LIBELLULIDAE - SKIMMERS



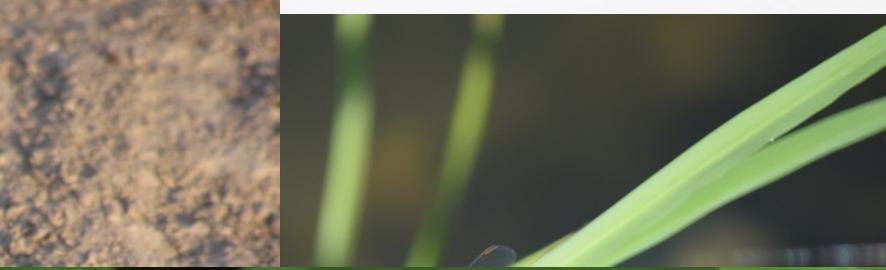
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CORDULIIIDAE -- EMERALDS



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