

- PHYLUM ANNELIDA (10,000 species)
    - Class Oligochaetes -- earthworm
    - Class Polychaetes -- *Nereis*
    - Class Hirudinea -- leeches
  - PHYLUM MOLLUSCA (100,000 species)
    - Class Amphineura -- chitons
    - Class Gastropoda -- snails, slugs
    - Class Pelecypoda -- mussels, oysters, clams, shipworms
    - Class Cephalopoda -- squids, octopods, nautilus
  - PHYLUM ARTHROPODA (750,000 species)
    - Class Crustacea
      - Subclass Branchiopoda -- water fleas
      - Subclass Cirripedia -- barnacles
      - Subclass Malacostraca
        - Order Decapoda -- lobsters, crayfish, shrimp
    - Class Chilopoda -- centipedes
    - Class Diplopoda -- millipedes
    - Class Arachnoidea -- spiders, scorpions, mites, ticks, horseshoe crab
    - Class Insecta (some 20 orders)
      - Order Thysanura -- silverfish
      - Order Orthoptera -- grasshoppers, cockroaches
      - Order Isoptera -- termites
      - Order Anoplura -- lice
      - Order Odonata -- dragonflies
      - Order Hemiptera -- bedbugs, stinkbugs
      - Order Siphonaptera -- fleas
      - Order Coleoptera -- beetles (nearly 250,000 species)
      - Order Hymenoptera -- ants, bees, wasps
      - Order Lepidoptera -- moths, butterflies
      - Order Diptera -- flies, mosquitoes
  - PHYLUM ECHINODERMATA (6,000 species)
    - Class Asterozoa -- starfishes
    - Class Echinozoa -- sea urchins, sand dollars
    - Class Ophiurozoa -- brittle stars
    - Class Holothurozoa -- sea cucumbers
    - Class Crinozoa -- sea lilies
  - PHYLUM CHORDATA (50,000 species)
    - Subphylum Hemichorda -- acorn worms
    - Subphylum Urochorda -- sea squirts
    - Subphylum Cephalochorda -- lancelet fish
    - Subphylum Vertebrata
- [the following is taken from Alfred S. Romer's work, *Man and the Vertebrates* (Chicago: The University Press, 1957), Appendix 1]

#### A SYNOPTIC CLASSIFICATION OF VERTEBRATES

- Class Agnatha (jawless vertebrates)
  - Order Osteostraci
  - Order Anaspida
  - Order Heterostraci
  - Order Cyclostomata -- lamprey, brook lamprey