Freshwater Bivalvia of British Columbia (April 25, 2016)

compiled by Ian Gardiner

Specimens of all species listed below, collected in British Columbia, are held at one or more of the following institutions - Royal British Columbia Museum; Canadian Museum of Nature, Smithsonian Institution. The one exception is Lampsis siliquoidea, photographic documentation for which is to be found in the E-Fauna BC Gallery pages.

Classification at the level of subfamily and above follows Bieler et al (2010).

Classification at the level of genus and below follows Graf & Cummings (2014) for the Unionoida, and Mackie (2007) for the Venerida. In the latter case, a few author citation adjustments have been made, and Pisidium simplex is substituted for Pisidium punctatum - see Korniushin et al (2001).

Following the work of Chong et al (2008) and Mock et al (2010), Anodonta californiensis and A. nuttalliana are considered members of the clade A. californiensis/nuttalliana, and A. kennerlyi and A. oregonensis members of the clade A. kennerlyi/oregonensis. The exact species composition of these two clades awaits further study.

The phylogenetic relationships among and within the sphaeriid taxa remain largely unresolved, resulting in a variety of conflicting classifications, particularly at the molecular level (Clewing et al 2013). Hence the use here of Mackie’s traditional classification using shell morphology and soft anatomy.

Common names for all species are taken from Turgeon et al (1998).

Order Unionoida

Family Unionidae
  Subfamily Unioninae
    Anodonta californiensis/nuttalliana clade
    Anodonta kennerlyi/oregonensis clade
  Subfamily Gonideinae
    Gonidea angulata (Lea, 1838)  Western Ridged Mussel
  Subfamily Ambleminae
    Lampsis siliquoidea (Barnes, 1823)  Fatmucket
  Family Margaritiferidae
    Margaritifera falcata (Gould, 1850)  Western Pearlshell

Order Venerida

Family Cyrenidae
  Corbicula fluminea (Müller, 1774)  Asian Clam
Family Sphaeriidae
  Subfamily Sphaeriinae
    Musculium lacustre (Müller, 1774) Lake Fingernailclam
    Musculium partumeium (Say, 1822) Swamp Fingernailclam
    Musculium securis (Prime, 1852) Pond Fingernailclam
    Musculium transversum (Say, 1829) Long Fingernailclam
    Sphaerium nitidum Clessin, 1876 Arctic Fingernailclam
    Sphaerium occidentale (Lewis, 1856) Herrington Fingernailclam
    Sphaerium patella (Gould, 1850) Rocky Mountain Fingernailclam
    Sphaerium rhomboideum (Say, 1822) Rhomboid Fingernailclam
    Sphaerium simile (Say, 1817) Grooved Fingernailclam
    Sphaerium striatinum (Lamarck, 1818) Striated Fingernailclam

  Subfamily Pisidiinae
    Genus Pisidium
      Subgenus Pisidium
        Pisidium idahoense Roper, 1890 Giant Northern Peaclam
      Subgenus Cyclocalyx
        Pisidium casertanum (Poli, 1791) Ubiquitous Peaclam
        Pisidium compressum Prime, 1852 Ridgebeak Peaclam
        Pisidium fallax Sterki, 1896 River Peaclam
        Pisidium ferrugineum Prime, 1852 Rusty Peaclam
        Pisidium lilljeborgi Clessin, 1886 Liljeborg Peaclam
        Pisidium milium Held, 1836 Quadrangular Peaclam
        Pisidium nitidum Jenyns, 1832 Shiny Peaclam
        Pisidium rotundatum Prime, 1852 Fat Peaclam
        Pisidium subtruncatum Malm, 1855 Shortended Peaclam
        Pisidium variabile Prime, 1852 Triangular Peaclam
        Pisidium ventricosum Prime, 1851 Globular Peaclam
      Subgenus Neopisidium
        Pisidium conventus Clessin, 1877 Alpine Peaclam
        Pisidium insigne Gabb, 1868 Tiny Peaclam
        Pisidium simplex Sterki, 1905 Perforated Peaclam

References


