Hirudinea
Boris SKET
Univerza v Ljubljani

crucial characters:
2 suckers
clitellum
Brussels, 28-29-30 September

Biology, ecology...

predators – parasites
freshwater – marine – terrestrial
epigean – cavernicolous

Hirudo

Haemadipsa
General background
Illustrations of key or illustrative species

Biology, ecology...

predators – parasites
**freshwater** – marine – terrestrial \[4 : 1 : 1\]
epigean – cavernicolous – ‘old’ lacustrine
General background

Illustrations of key or illustrative species

Biology, ecology...

predators – parasites
freshwater – marine – terrestrial
epigean – cavernicolous – Croatian Branchus
Haemadipsa sp., Yunnan, China
General background

Illustrations of key or illustrative species

Biology, ecology...

predators – parasites
freshwater – marine – terrestrial
epigean – cavernicolous – ‘old’ lacustrine
Illustrations of key or illustrative species

'Bold' lacustrine species may be very different in shape but nearly identical molecularly.

Biology, ecology...

Predators – parasitoids
Freshwater – marine – terrestrial
Epigean – cavernicolous

'Dina eturpshem', 'Dina krilata', 'Dina svilesta', 'old' lacustrine

Dina lineata aggreg.

Dina ohridana
### Taxonomic information

**Number of families/species...**

**Freshwater and/or marine...**

#### approximate count in 2006:

<table>
<thead>
<tr>
<th></th>
<th>freshwater</th>
<th>marine</th>
<th>terrestrial</th>
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<td>families</td>
<td>10</td>
<td>150</td>
<td>155</td>
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<tr>
<td>species</td>
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</table>
Brussels,
28-30 September

Taxonomic information

Number of families/species
Freshwater and/or marine

Phylogenetic tree

Borda & Siddall 2003

? primary: freshwater
sanguivorous

(living styles polyphyletic)
Phylogenetic tree

Glossiphoniidae

Piscicolidae, Ozobranchidae
Americobdellidae
Salifidae
Erpobdellidae

Cylicobdellidae
Haemadipsidae

Hirudinidae
(Xerobdellidae)

Hirudinidae
(Haemopidae)

‘Euhirudinea’
ca 10 families

Borda & Siddall 2003

ca 10 families

Borda & Siddall 2003
the situation much more complex, it is only necessary to reshape genera

Siddall 2002

Fifth International Conference “Hirudinea: taxonomy, faunistics, e Tivat, 8-10 October 2014
Checklist (for freshwater) has to be made

Data sources in FADA, WoRMS, RAMS...

Status

Genus

Cathobdella
Genus

Clynozoas
Genus

Cyclophilus
Genus

Dicyctidium
Genus

Dicyctidium (van Beneden & Hesse, 1862)
Genus

Galatheabdella
Genus

Ganymedebdella (Leigh-Sharpe, 1915)
Genus

Hirudo (Linnaeus, 1758)
Genus

Janusio (Leigh-Sharpe, 1933)
Genus

Johanssiona (Selensky, 1914)
Genus

Leporinabdella (Burreson & Williams, 2008)
Genus

Megaliobdella
Genus

Orientobdella
Genus

Phyllobdellina
Genus

Phyllothoracnus
Subfamily

Piscicolinae (Johnston, 1865)
» Genus

Acipenserobdella (Epshtein, 1969)
» Genus

Baculobdella (Bogolepova, 1957)
» Genus

Caspiobdella (Epstein, 1966)
» Genus

Hemibdella (van Beneden & Hesse, 1863. Revised)
» Genus

Heptacyclus (Vasileyev, 1939)
» Genus

Makarabdella (Richardson, 1959)
» Genus

Marajobdella (More, 1926)
» Genus

Myzobdella (Selensky, 1927)
» Genus

Phyllobdella (Moore, 1939)
» Genus

Piscicolaria (Whitman, 1889)
» Genus

Platybdella (Malm, 1863)
» Genus

Pterobdella (Kaburaki, 1921)
» Genus

Trachelobdella (Diesing, 1850)
» Genus

Aestabdella (Burreson, 1976)
» Genus

Austrobdella (Badham, 1916)
» Genus

Bathyabdella (Burreson, 1981)
» Genus

Crangonobdella (Selensky, 1914)
» Genus

Cryobdella (Harding, 1922)
» Genus

Glyptonotobdella (Sawyer & White, 1969)
» Genus

Hemibdella (van Beneden & Hesse, 1863. Revised)
» Genus

Hemibdella (van Beneden & Hesse, 1863. Revised)
» Genus

Ichthyobdella (Oka, 1910, 1931)
accepted as Beringobdella (Caballero, 1974)
» Genus

Illinobdella (Meyer, 1940)
accepted as Myzobdella (Leidy, 1851)
» Genus

Levinsenia (Vasileyev, 1939)
accepted as Berin gobdella (Caballero, 1974)
» Genus

Malmia (Strand, 1942)
accepted as Heptacyclus (Vasileyev, 1939)
» Genus

Mysidobdella (Selensky, 1927)
» Genus

Myzobdella (Leidy, 1851)
» Genus

Notobdella (Benham, 1909)
» Genus

Notostomum (Levinsen, 1882)
» Genus

Oceanobdella (Catalin, 1966)
» Genus

Ostimobdella (Oka, 1927)
» Genus

Phyllobdella (More, 1939)
» Genus

Piscicolaria (Whitman, 1889)
» Genus

Platybdella (Malm, 1863)
» Genus

Pterobdella (Kaburaki, 1921)
» Genus

Trachelobdella (Diesing, 1850)
» Genus

A branchus (Johansson, 1896) accepted as Oceanobdella (Caballero, 1958)
» Genus

Arctobdella (de Silva & Kabata, 1969) accepted as Hemibdella (van Beneden & Hesse, 1863. Revised)
» Genus

Carcinobdella (Oka, 1910) accepted as Notostomum (Levinsen, 1882)
» Genus

Ichthyobdella (Oka, 1910, 1931) accepted as Beringobdella (Caballero, 1974)
» Genus

Illinobdella (Meyer, 1940) accepted as Myzobdella (Leidy, 1851)
» Genus

Levinsenia (Vasileyev, 1939) accepted as Beringobdella (Caballero, 1974)
Expectations for the workshop

Issues that could be solved during the meeting
Expected perspectives (new tools, publication...)

...
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FINIS,

thanks

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