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# EUNICIDA

E.B.W.S.A. ERRANT POLYCHAETE WORKSHOP

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BOC '85

Key to the Families of Eunicida.

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1. Parasitic in the branchial chambers of decapods.....Iphitimidae

Free living forms.....2.

2. One pair of antennae; jaws composed of many small denticles arranged in longitudinal series.....Dorvilleidae

Antennae present or absent; jaws composed of maximally 6 pairs of plates.....3

3. Antennae present.....4

Antennae absent.....5

4. Prostomium with two ovoid frontal antennae and five dorsal antennae.....Onuphidae.

Prostomium without ovoid frontal antennae and with 1, 3 or 5 dorsal antennae.....Eunicidae.

5. Hooded crotchets present.....Lumbrineridae.

Hooded crotchets absent.....6.

6. Dorsal cirri inconspicuous.....Arabellidae

Dorsal cirri large.....Lysaretidae (not yet recorded from the North-East Atlantic.)

Key to the genera of Onuphidae

1. First three anterior chaetigers with modified chaetae  
..... Rhamphobrachium  
brevibrachiatum

Anterior chaetae not modified ..... 2

2. Tentacular cirri absent ..... Hyalinoecia  
Tentacular cirri present ..... Onuphuis conchylega

Key to the species of Hyalinoecia

1. Chaetae of anterior chaetigers simple. Tube quill-like, transparent  
..... H. tubicola
- Chaetae of anterior chaetigers composite. Tube not quill-like  
..... 2
2. Gills from 4th chaetiger ..... H. bilineata  
Gills from 7th chaetiger ..... H. bilineata var. rigida  
Gills from 20th chaetiger ..... Hyalinoecia sp.

Key to the genera of Eunicidae

1. Tentacular cirri present ..... Eunice  
Tentacular cirri absent ..... 2
2. Branchiae present ..... Marphysa  
Branchiae absent ..... 3
3. One occipital antenna present ..... Nematonereis unicornis  
Three occipital antennae present ..... Lysidice ninetta

Key to the species of Eunice

1. Subacicular hooks bidentate ..... E. harassii  
Subacicular hooks tridentate ..... E. vittata

Key to the species of Marphysa

1. Prostomium incised, bilobed ..... 2  
Prostomium not incised, rounded ..... 3
2. Gills comb-like ..... M. kinbergi  
Gills simple ..... M. sanguinea
3. Gills comb-like ..... M. belli  
Gills simple ..... M. fallax

Key to the Lumbrineridae

1. Composite crotchets present in the anterior c.20 segments.....2  
Only simple crotchets present ..... 3
2. Terminal portion of composite crotchets long; composite crotchets present in greater than 15 anterior chaetigers ..... L. latreillii  
Terminal portion of composite crotchets short; composite crotchets present in less than 15 anterior chaetigers ..... L. gracilis (head)
3. Simple crotchets present from 1st chaetiger ..... L. impatiens  
Simple crotchets not present in 1st chaetiger ..... 4 (simple crotchets)
4. Pseudo crotchets present in anterior chaetigers; these gradually change into simple crotchets by c. 10th chaetiger ..... L. hibernica (bullet shape head)  
Pseudo crotchets not present; simple crotchets present after 15th chaetiger ..... 5
5. Simple crotchets present after 15th chaetiger ..... L. fragilis  
Simple crotchets present after 40th chaetiger ..... L. rovingensis (many 40th)

Key to the Arabellidae

1. Parapodia with emergent acicula ..... 2  
Parapodia without emergent acicula ..... Arabella iricolor
2. Maxillae I asymmetrical ..... Notocirrus scoticus  
Maxilla I symmetrical ..... Drilonereis

Key to Drilonereis

- Maxillae I dentate at base ..... D. magna  
Maxillae I without teeth at base ..... D. filum

Key to the genera of Dorvilleidae

1. Furcate or lyrate chaetae present in notopodium ..... 3  
    Furcate or lyrate chaetae absent in notopodium ..... 2
2. Neuropodia chaetae bidentate ..... Dorvillea rubrovittata  
    Neuropodial chaetae unidentate ..... Ophryotrocha
3. Neuropodial chaetae bidentate ..... Schistomeringos  
    Neuropodial chaetae unidentate ..... Protodorvillea

Key to the species of Schistomeringos

- Furcate chaetae present ..... S. rudolphii  
 Lyrate chaetae present ..... S. caecus

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