R

ELJA POLYCHAETE WORKSHOP FORT POPTON APRIL 1990

## PHYLLODOCIDAE

## ASYM/ECSA 90

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The Phyllodocids include some very strikingly coloured representatives and the pigmentation patterns of some species are very characteristic. Many species, as among the Syllidae, are very attractive, but the identification of preserved specimens can be troublesome. The key to the British phyllodocids presented below is from a draft manuscript by Fredrik Pleijel (Swedish Museum of Natural History, Stockholm) and is reproduced here with his permission. The key together with illustrated descriptions of the British species is in press as part of the Synopses of the British Fauna series

1. Two or three pairs of tentacular cirri (2 or 1+2).....2 -- Four pairs of tentacular cirri (1+2+1)......10

2. Two pairs of tentacular cirri on segment 1. Dorsal cirri absent on -- One pair of tentacular cirri on segment 1 and two pairs on segment 2 

3. Dorsal pair of tentacular cirri more than twice as long as ventral pair. Dark pigments forming three distinct longitudinal lines on dorsum......Eteone barbata -- Dorsal pair of tentacular cirri as long as ventral pair, or shorter......4

5. Segment 2 without setigerous lobes or setae (a few setae may occur in smaller specimens), only with ventral cirri. Pygidial cirri long and -- Segment 2 with setigerous lobes and a larger number of setae. 

6. Proboscis with small, thorny, dorsally situated papillae. Rust-reddish pigment present on anterodorsal sides of cirrophores and as two lateral and two median dark areas dorsally on segments...... Eteone picta -- Proboscis smooth or with rather indistinct papillae. Pigmentation (if 

9. Antennae very thin, of uniform thickness. Median antenna absent. Tentacular cirri distinctly bottle-shaped. Eyes absent......*Mystides caeca* -- Antennae tapering. Small median antenna present. Tentacular cirri cylindrical. Eyes present.....*Pseudomystides limbata* 

12. Segment 1 and 2 forming a collar covering posterior part of prostomium. Dorsal cirri oval. Ventral cirri horizontally orientated......13 -- Segment 1 and segment 2 fused, but not forming a collar. Dorsal cirri cordiform. Ventral cirri obliquely orientated.......14

14. Dorsal cirri much broader than long......Nereiphylla lutea -- Dorsal cirri as broad as long or longer.....15

Setigerous lobes strongly asymmetrical; conspicuous superior prolongation present. Dorsal cirri of median segments oval.....Phyllodoce longipes
Setigerous lobes, at most, only slightly asymmetrical......19

21. Ventral cirri pointed. Proboscis with 9-10 papillae in each midlateral row. Prostomium darkly pigmented anterior to eyes.....*Phyllodoce* -- Ventral cirri rounded oval. Proboscis with 6-9 papillae in each midlateral row. Prostomium without conspicuous dark pigmentation anterior to eyes.....*Phyllodoce maculata* 

23. Proximal part of proboscis with 8 more or less well-defined rows of 3-8 papillae. A broad dark longitudinal line on dorsum.......*Phyllodoce* --- Proximal part of proboscis densely covered with small diffusely distributed papillae. No dark longitudinal line on dorsum......*Phyllodoce laminosa*  24. Parapodia biramous with a notopodial acicula. Large nuchal epaulettes present postero-lateral to prostomium......Notophyllum foliosum 25. Segments 2-4 ventro-laterally with large stout setae ...... Chaetoparia nilssoni 27. Dorsal cirri lanceolate, pointed. Median pygidial papilla absent........28 28. Dorsal cirri asymmetrical. Live animals uniformly green, without special pigmentation pattern......Eulalia viridis -- Dorsal cirri more or less symmetrical. Animals with distinct 29. Live animals yellowish with two red mid-dorsal lines and two darker dorso-lateral lines. Red lines disappear in alcohol, but lateral lines are retained......Eulalia aurea -- Animals yellowish, segmentally with two pairs of transverse dorsal olive-green bands and dark brown mid-dorsal spot ...... Eulalia ornata 30. Median antenna minute, hardly visible (best seen in profile). Eyes small. Pygidial cirri with distinct tips ...... Eulalia mustela Median antenna larger. Eyes larger Pygidial cirri with rounded ---31. Animals with a dark, continuous mid-dorsal longitudinal line. Pygidial cirri oval, slightly flattened......Eulalia expusilla -- Pigmentation otherwise. Pygidial cirri cylindrical with rounded 32. Animals with two dark dorso-lateral longitudinal bands ...... Eulalia bilineata -- Distinct dark spots on dorsum of every segment, one medial and two lateral.....Eulalia tripunctata

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