

Key to Orbiniidae

1. Prostomium broadly rounded. No inter-ramal cirri. No sub-podal papillae. No ventral cirri. ..9.

.. Prostomium conical and pointed. Inter-ramal cirri may be present, sub-podal papillae or ventral cirri usually present. ..2.

2. Thoracic neuropodia with smooth post-chaetal lobes (3, or fewer post-chaetal papillae). May have modified chaetae in anterior thoracic neuropodia. ..3.

.. Thoracic neuropodia with fringed post-chaetal lobes (more than 3 post-chaetal papillae). May have modified hooks in posterior thoracic neuropodia. ..4.

3. Thoracic neuropodia with slender, serrated hooks, in addition to crenulated capillaries.

Scoloplos armiger (O. F. Muller, 1776).

[Ubiquitous; in inshore and intertidal mud or sand.]

Abdominal subpodal flanges stain deep red with Rose Bengal relative to overall staining.

.. Thoracic neuropodia with crenulated capillary chaetae only.

Leitoscoloplos mammosus Mackie, 1987.

[Subtidal sediment; West of Scotland.]

Rose Bengal staining even throughout - no darker stain in subpodal flanges.

4. Some posterior thoracic neuropodia with stout, modified hooks. Gills from chaetiger 4 - 9. ..5.

.. Posterior thoracic neuropodia without stout, modified hooks. Gills from chaetiger 5 - 6. ..8.

5. Post-chaetal papillae present in thorax. Sub-podal papillae absent. Post-chaetal lobes of notopodia sometimes forked.

Orbinia (Phylo) norvegica (Sars, 1873).

[Ubiquitous ?; in mud]

.. Post-chaetal and sub-podal papillae present in thorax. Post-chaetal lobes of notopodia simple. ..6.

6. No inter-ramal cirri in abdominal parapodia.

Orbinia (Phylo) kupfferi (Ehlers, 1874).

[Ubiquitous ?; in mud or muddy sand]

.. Inter-ramal cirri present in abdominal parapodia. ..7.

7. Gills from chaetiger 4 - 6. Lanceolate modified chaetae on the 3 - 4 most posterior of the thoracic chaetigers.

Orbinia (Phylo) grubei (McIntosh, 1910).

[Offshore; in muddy sand.]

.. Gills from chaetiger 6 - 9. Spear-shaped modified chaetae on posterior thoracic chaetigers from chaetiger 11 - 12. (Garlic smell when alive.)

Orbinia (Phylo) foetida (Claparede, 1868).

[South-west ?; in shallow water mud or fine sand.]

8. 22 - 24 chaetigerous thoracic segments. Sub-podial papillae from the 17th to 34th parapodia, or fewer.

Orbinia (Orbinia) sertulata (Savigny, 1820).

[Ubiquitous ?; in subtidal sand or muddy sand.]

.. 31 - 36 chaetigerous thoracic segments. Sub-podial papillae from the 22nd to 55th parapodia, or fewer.

Orbinia (Orbinia) latreillii (Audouin & Milne-Edwards, 1833).

[Ubiquitous ?; in subtidal sand or muddy sand.]

9. Neuropodial acicular papilla placed above centre of ramus. Neuropodium with a small bundle of unidentate, denticulate hooks and many rows of shorter, curved chaetae, with tapered denticulate tips (subuluncini).

Naineris laevigata (Grube, 1855).

[South-west ?; in shallow water mud or sand.]

.. Neuropodial acicular papilla placed at centre of ramus. Neuropodium with many rows of large bidentate, denticulate hooks, no subuluncini.

Naineris quadricuspida (Fabricius, 1780).

[Ubiquitous ?; in mud or sand.]

Additional species :

Orbinia (Phylo) armandi (McIntosh, 1910).

[Northern North Sea.]

References

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