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A generic review of the lysianassoid family Uristidae and descriptions of new taxa from Australian waters (Crustacea, Amphipoda, Uristidae)

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Abstract

In this paper we review the genera of the family Uristidae and report for the first time from Australian waters: the new genus and species *Des griffini*; the genus *Euonyx* with two new species; *Koroga megalops*; the genus *Parschisturella* with three new species; and *Stephonyx arabiensis* plus one new species. We provide keys to species in the genera *Abyssorhomene*, *Euonyx*, and *Parschisturella*. Ten genera and 24 species of uristid lysianassoids are now known from Australian waters.

Key words: Crustacea, Amphipoda, Lysianassidae, Uristidae, taxonomy, new genus, new species, *Abyssorhomene*, *Des*, *Euonyx*, *Koroga*, *Parschisturella*, *Stephonyx*

Introduction

The Uristidae is a widespread family of scavenging lysianassoid amphipods that contains 23, mostly well-defined, genera. The largest genus, *Anonyx* Krøyer, 1838a, with about 51 species is Arctic/boreal. A second large genus *Onisimus* Boeck, 1871, with 26 species, is also known from the Arctic/boreal. The genus, *Ichnopus* Costa, 1853 with about 18 species, has a tropical/temperate distribution and occurs mainly in the Indo West Pacific. The widespread genus *Stephonyx* Lowry & Stoddart, 1989, with 14 species, is known from all oceans except the Southern Ocean. Other genera are often monotypic. *Uristes* Dana, 1852, which currently contains 22 species is revised and reduced to two species confined to the subantarctic and Antarctic.

The family Uristidae is characterised by mouthpart modifications. The setal-tooth arrangement on the outer plate of maxilla 1 forms a 7/4 crown (see Lowry & Stoddart 1989) and is considered to be very efficient to move bites of flesh onto the molar and into the stomodeum. The mandibular incisor forms a curved blade in most species and the molar is modified into a setose tongue, often with a vestigial triturating patch, but in some species it retains a reduced column with triturating surface similar to the tryphosine molar. In most uristids the inner plate of maxilla 2 is reduced in size so that it is significantly shorter than the outer plate.

Uristids have a callynophore in both sexes and often have plumose setae on the rami of uropod 3. Calceoli are present in some genera (eg. *Abyssorhomene*, *Galathella*, *Koroga*, *Parschisturella* and *Stephonyx*) and the mature males do not develop the long second antenna found in lysianassids. There are three kinds of gnathopods found in uristids. The majority of genera have well developed or weakly developed subchelate first gnathopods, similar to tryphosines. Six genera have simple first gnathopods, two (*Eclecticus* and *Ichnopus*) with highly complex dactyli. Three genera (*Euonyx*, *Kyska* and *Stephonyx*) have distinctive chelate gnathopods. Whether these gnathopod types form natural groups has yet to be tested.

There are currently six genera and 15 species of uristid amphipods known from Australian waters. Haswell (1879) described *Ichnopus tenuicornis* (Haswell, 1879) from the Great Barrier Reef. Sheard (1938) described *Stephonyx pirloti* (Sheard, 1938) from South Australia. In a monograph on the genus *Ichnopus* Costa, 1853, Lowry & Stoddart (1992) reported eight species from Australian waters, including six new species. Lowry & Stoddart (1995a) reported two species in the genus *Galathella* Barnard & Karaman, 1987 and a new species in the genus *Gippsia* Lowry & Stoddart, 1995a. Lowry & Stoddart (2009) reported *Nagada uwedoae* Lowry & Stoddart, 1995b from the Great Barrier Reef. Lowry & Stoddart (2003) reported two species of *Abyssorhomene* from deep water off eastern Australia.

In this paper we report for the first time the new genus and species, *Des griffini* **gen. nov.**, **sp. nov.** We report the genus *Euonyx* Norman, 1867 in Australian waters and describe two new species, *E. urania* **sp. nov.** and *E. xarifa* **sp. nov.** The wide-spread pelagic uristid, *Koroga megalops* Holmes, 1908, is identified in Australian waters for the first time. The genus *Parschisturella* is also reported from Australian waters and three new species, *P. martrudan* **sp. nov.**, *P. medora* **sp. nov.**, and *P. pilot* **sp. nov.** are described.

Stephonyx Lowry & Stoddart (1989), a widespread genus of scavenging abyssal amphipods is reviewed and *Stephonyx arabiensis* Diffenthal & Horton, 2007, is reported from Australian waters and one new species, *S. rafaeli* **sp. nov.**, is described. Including the new species described here, *Stephonyx* currently contains 14 species from abyssal depths of the North and South Atlantic, the North and South Pacific and the Indian Oceans. In this paper we catalogue all known species.

Ten genera and 24 species of uristid lysianassoids are now known from Australian waters.

Ventiella Barnard & Ingram 1990

(Fig. 51)

Ventiella Barnard & Ingram, 1990: 31.

Type species. *Ventiella sulfuris* Barnard & Ingram, 1990, original designation.

Included species. *Ventiella* includes 1 species: *V. sulfuris* Barnard & Ingram, 1990.

Diagnostic description. Antenna 1 peduncle article 1 without anterodistal lobe; accessory flagellum forming cap covering callynophore. Antenna 2 brush setae [unknown]. Mandible molar a reduced column with convex, fully tritulating surface. Maxilla 1 outer plate a well developed 7/4 crown. Maxilla 2 inner plate subequal to or slightly longer than outer plate. **Gnathopod 1 subchelate; coxa 1 reduced, significantly shorter than coxa 2, tapering distally**; ischium short (length less than 2 × breadth); **carpus long (length 2 to 4 × breadth)**; propodus margins subparallel. Uropod 2 inner ramus not constricted. **Telson notched**.

Remarks. Only *Ventiella* and *Galathella* have a subchelate gnathopod 1 with a reduced tapering coxa. They differ significantly in the the relative lengths of the maxilla 2 plates (subequal in *Ventiella*, inner plate slightly to significantly shorter in *Galathella*) and in the telson (notched in *Ventiella*, moderately to deeply cleft in *Galathella*).

Distribution. *Pacific Ocean*. Galapagos vents (Barnard & Ingram, 1990).

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