

## On some species of prosobranchiate gastropods from Russian waters described by C.W.S. Aurivillius in 1885

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**ABSTRACT.** 9 species of molluscs from Russian waters were described by Aurivillius (1885) from the materials, collected by *Vega* Expedition (1878-79). Type material of some prosobranchiate gastropods were examined and status of the species was clarified. *Trichotropis solida* (current generic position — *Neoiphinoe*) — valid species, although the name is erroneously used in current literature. *Pleurotoma beringi* — junior subjective synonym of *Antiplanes sanctioannis* (Smith, 1875). *Fusus (Euthria) conulus* — valid species, belonging to the genus *Anomalosipho* Dautzenberg et Fischer, 1912. *Fusus decipiens* — junior primary homonym of *Fusus decipiens* Deshayes, 1857, junior subjective synonym of *Volutopsius attenuatus* Dall, 1874 and of *Buccinopsis canaliculata* Dall, 1874. *Fusus (Sipho) turritus* — junior primary homonym of *Fusus turritus* Schafhäütl, 1863, senior synonym of *Aulacofusus (Limatofusus) pulcius* Dall, 1919. *Fusus (Sipho) olivaceus* — valid species, senior synonym of *Plicifusus (Retifusus) incisus* Dall, 1919.

In 1885 Aurivillius published an account of chitons and gastropods collected by the *Vega* Expedition (1878-79), among which several new species, mostly from Russian Arctic waters were described. These were: *Trichotropis solida*, *Pleurotoma beringi*, *Fusus decipiens*, *Fusus (Euthria) conulus*, *Fusus (Sipho) olivaceus*, *Fusus (Sipho) turritus*, *Doris (Adalaria) sibirica*, *Tritonia psoloides*, and *Philine polaris*.

Some of the species have not been illustrated in the original publication, namely *Fusus (Sipho) olivaceus*, *Fusus (Sipho) turritus*, *Doris (Adalaria) sibirica*, *Tritonia psoloides*, and *Philine polaris*. However, Aurivillius provided illustrations of radulae of *F. olivaceus*, *T. psoloides*, and *P. polaris*.

Two of his new species have been cited in subsequent literature — *Trichotropis solida* and *Fusus (Euthria) conulus* [e.g., Golikov, 1995; Golikov et al., 2001].

We were able to examine the type material of all prosobranchiate gastropods described by Aurivillius. In the course of preparation of the catalog of Mollusca of Russia, it became necessary to clarify

the status and current taxonomic position of these species.

### Taxonomy

#### Capulidae

***Trichotropis solida* Aurivillius, 1885:** 328, 375, Tafl. 12, fig. 6.

Current generic position — *Neoiphinoe* Habe, 1978 (nom. nov. pro *Iphinoe* H. et A. Adams, 1856 non *Iphinoe* Rafinesque, 1815; both names rejected: ICZN Opinion 1593/1990).

Type locality: *Vega* Expedition, sta. 1042, Bering Strait, 66°58'N, 171°35'W, 38 m.

Holotype (Fig. 1 A-B): Swedish Museum of Natural History (SMNH), Stockholm, type-1560. Shell height 35.2 mm.

**Remarks.** The species name is in use in current Russian malacological publications [e.g. Golikov, 1995; Egorov, Alexeyev, 1998]. We have examined material identified by Golikov (and later cited by Egorov and Alexeyev, 1988) and found out that it belongs to a different species, *Neoiphinoe arctica* (Middendorff, 1849) (Fig. 1 C-G). Search of the entire collections of Zoological Institute, St.-Petersburg (ZIN) did not reveal specimens from Arctic or North Pacific seas, that match the type of Aurivillius. Although the type of *N. solida* may represent an extreme variation of *N. arctica*, nevertheless, it differs from the latter in much narrower umbilicus, practically closed by the inner lip, as well as in finer spiral sculpture. While spiral sculpture of *N. solida* consists of thin closely spaced riblets (35+ on the body whorl, surface is strongly corroded), in the syntype of *N. arctica* the spiral sculpture consists of strong, widely spaced cords, 15 on the last whorl. Therefore we prefer to consider *N. solida* as a valid species, distinct from *N. arctica*. No reliable data on its distribution, except for the type locality, are available.

Contrary to the name of Aurivillius species, the name of Middendorff's species (original binomen *Cancellaria (?) arctica* Middendorff, 1849: 441, Taf. IX, fig. 11, 12, 15, type locality also Bering Strait) was grossly forgotten. Aurivillius himself