PG-18

Taxonomy and ecology of a new species of *Rhizothrix* Brady & Robertson (Copepoda, Harpacticoida) in the intertidal zone of a sandy shore, southern Korea

선서경[1], 서호영[2], 서해립[1]
[1]전남대학교 해양학과 해양연구소, [2]여수대학교 수산과학연구소

Introduction

Harpacticoid copepods are one of the most important components in the benthic meiofaunal community. In spite of their numerical significance the study of harpacticoids in Korea, as distinct from meiofauna in general (Kim et al., 1998, 2000a, b), has been limited.

During the course of investigation on ecological significance of harpacticoids in the intertidal sandy shore, a new species of the genus *Rhizothrix* was determined and described here.

Materals and Methods

Samples were monthly taken in 1999 from the intertidal zone of a sandy shore, southern Korea. Each sample consisted of three separate cores of 25 cm^2 by 5 cm depth. Cores were preserved in 5% neutralized formalin/seawater, then washed with tap water and filtered through 63 um sieve. Harpacticoids were sorted under a dissecting microscope. Specimens were dissected in glycerin and mounted on slides in lactophenol mounting medium. Drawings were made with a camera lucida. The morphological terminology is based on Huys et al. (1996).

Results and Discussion

A new species, *Rhizothrix dolsandoensis* n. sp. is closely related to *R. gracilis* (T. Scott, 1903), but it differs from the latter in the following characters: inner seta

on basis of P1 absent; outer seta on P1 exp-3 absent; the number of seta and spine in the P2-P5. *R. dolsandoensis* n. sp. predominates in spring and early summer when the high salinity (>25 psu) and the concentrated organic materials appeared.

			R. gracilis	*R. dolsandoensis* n.sp.
P1 Basis seta			present	absent
P1 Exp-3 outer seta			present	absent
Setal formula	P2	Exp	0.0.022	0.0.031
		Enp	0.120	0.020
	P3	Exp	0.0.022	0.0.031
		Enp	0.220	0.020
	P4	Exp	0.0.022	0.0.031
		Enp	0.220	0.020
P5 Benp., no of seta			10	9

References

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