Polychaeta trophic groups in some offshore Biocoenoses in the Northern Adriatic

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Offshore polychaeta in the Northern Adriatic have not been explored so far, from the trophic viewpoint, though among the benthos organisms they particularly indicate the highest degree of the trophic - functional adaption, and they are included into nearly all levels of the trophic steps in the sea. Identification of the trophic groups and their nomenclature is based on the works of FAUCHALD and JUMARS (1979) and MAURER and LEATHEM (1981). The suggestion of GAMBI *et al.* (1982) has been taken into consideration, and the new group "omnivores" has been introduced.

GAMBI *et al.* (1982) has been taken into consideration, and the new group "omnivores" has been introduced. The polychaeta fauna has been stated from three Biocoenoses: from Coastal terrigenos ooze; Coastal detritic and from Coastal detritic mixed with ooze. Among total 88 species of polychaeta with 5536 samples it has been established 13 trophic groups. On the explored bottom of the Northern Adriatic offshore, the most numerous are the polychaeta with feed with detritus and with organic mud digging and burrowing in the sediment. The greatest abundance is showed by the group BMX (Burrowers, Motile, non-Jawed) 50.7%, thank to species Notomastus latericcus and Sternaspis scattuta which make 50.5% of the total number of the units. All other groups are following behind this like SDT (Surface, Deposit-feeders), Discretely motile, Tentaculate) 7.3%, in which dominates the species Chaetozone setosa, the CMJ (Carnivore, Motile, Jawed) 12.1%, OMN (Omnivores) 8.3%, and FDT (Filter-feeders, Discretely motile, Tentaculate) which includes only the species Owenia fusiformis and still occupies 6.2% of the total trophic group abundance. Groups with the smallest abundance are: FST (Filter-feeders, Sessile, Tentaculate), CMX (Carnivore, Motile, Jawed), SMX (Surface, Deposit-feeders, Motile, Jawed), SDJ (Surface, Deposit-feeders, Jiscretely motile, Jawed) SDJ (Surface, Deposit-feeders, Motile, Jawed), CMX (Carnivore, Discretely motile, Jawed) SDJ (Surface, Deposit-feeders, Jiscretely motile, Jawed) and SST (Surface, Deposit-feeders, Sessile, Tentaculate) which share together 3.5% of the trophic abundance (Fig. 1). The aduantity of organic substance in Biocoenose of Coastal terrigenous ooze at the sites under the influence of the riverbone silt causes great density of the organic substances in the sediment. These distinctions are visible also in respect to th



Fig 1. Trophic groups. A: Coastal terrigenous ooze (clayey-silty-sand), B: Coastal terrigenous ooze (silty-clay), C: Coastal detritic with ooze, D: Coastal detritic.

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