Национальная академия наук Украины
Институт биологии южных морей им. А.О. Ковалевского

Тезисы VII Международной
научно-практической конференции

Pontus Euxinus 2011

по проблемам водных экосистем,
посвящённой 140-летию Института биологии южных морей
Национальной академии наук Украины

Севастополь
2011

smaller scale, the community was formed by the species with different degree of patchiness while at larger scales, all the species possess nearly the same distribution pattern. The same number of samples of equal sizes revealed nearly the same species numbers independently of distances between the sample sites, as the samples at each scale differ from each other nearly at the same magnitude. An averaged size of the species aggregations in the community is as large as several centimeters. Such a scale is probably a characteristic size (minimum area) of the community of the sphagnum dwelling heterotrophic flagellates. Rather low environmental heterogeneity within the sphagnum quagmire leads to significant homogeneity of the community at larger scales. Vertical differentiation of the heterotrophic flagellate communities within that quagmire appeared to be very unstable with the time. The same species are characterized by different preferences to the depths at different spatial-temporal loci. Specific vertical distributions and community patterns are formed under different local conditions.

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A STUDY ON SOME PHYSICAL AND CHEMICAL PROPERTIES OF HARINGET STREAM

In this study, some physical and chemical properties of Haringet Stream have been investigated between 2009 May and April 2010. For this purpose, water samples from 7 stations on Haringet Stream have been collected monthly. Amonium nitrogen, nitrite nitrogen, nitrate nitrogen, reactive phosphate and sulphate were determined in waters. The lowest and highest values for, alove parameters were found as 0.01-0.06 mg/L; 0.03-2.12 mg/L; 0.3-8.9 mg/L; 0.02-1.58 mg/L; 8.7-75.7 mg/L respectively. In conclusion, according to water quality criteria for inland water sources, Haringet Stream could be classified as class III in term of nitrate nitrogen, nitrite nitrogen, reactive phosphate values and class I in term of sulphate.