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Seasonal Variation of Phytoplankton Diversityin the Fresh Water Body of Atpadi Lake, Maharashtra

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Abstract:Studies on monthly variations of phytoplanktons in a freash water body of Atpadi lake Atpadi, Maharashtra were carried out from Feb. 2018 to Jan. 2020. The phytoplanktons in this aquatic body were represented by Bacillariophyceae, Chlorophyceae, Euglenophyceae and Cyanophyceae. The values of percentage composition of each group of phytoplankton indicated that Chlorophyceae (30.43%) formed largest group of phytoplankons followed by Bacillariophyceae (26.08%), Cyanophyceae (26.08%) and Euglenophyceae (17.39%). Maximum density of phytoplankton was reported during summer and minimum during monsoon season.

Keywords: Phytoplankton, Bacillariophyceae, Chlorophyceae, Euglenophyceae, Cyanophyceae, etc.

REFERENCES

- [1] Adoni A.D., Joshi G., Ghosh K., Chaurasia S. K., Vaishya, Yadav M., and Verma H.G. 1985 workbook on limnology, Pratibha publishers, Sagar India.
- [2] Arumughan A.T. and Furtado J.I.,1980, Physico- Chemistry, desertification and nutrient budget of a low land eutrophicated Nalayasian Reservoir and its limnological implication, Hydrobiologia. 70: 11-24.
- [3] Bharadwaja Y, 1940. Some aspects of the study of myxophyceae. Pro. 27th Indian Science Congress, Madras p. 168.
- [4] Bhosle L.J, Sabale A.B. and Mulik N.G., 1994. Survey and status reports on some wetlands of Maharashtra. Final report submitted to Shivaji University, Kolhapur. India. 60 p.
- [5] Cox E. J. 1996. Identification of freshwater diatoms from live material, Chapman and Hall. London.
- [6] Fritch F.E., 1944. The present-day classification of algae. bot. Rev., 10.
- [7] Goel P.K., Kulkarni A. Y. and khatavkar S.D. 1988. Species diversity in phytoplankton communities in fresh water bodies in South Western Maharashtra. Geobios. 15: 150- 156.
- [8] Goyal P.K. and Chavan V.R., 1991. Studies on the limnology of a polluted fresh water tank. Aquatic Sciences in India (Gopal B and Asthana V. eds). pp.65-75
- [9] Kamat M.D. 1965, Ecological notes on Kolhapur. J. Biol. Sci., 8: 47-54.
- [10] Kulshrestha S.K. and Johari M., 1991, Epiphyte community of lower lake of Bhopal in relation to sewage pollution. Aquatic Sciences in India (Gopal B. & Asthana V., eds.) pp. 65-75
- [11] Lacky J.B. 1938. The manipulation and counting of river plankton and changes in some organisms due to formalin preservations, U.S. Public Health reports, 53:2080-2093.
- [12] Mustafa S. and Zubair Ahmed 1997, Environmental factors and planktonic communities of Baigul and Nanaksagar reservoirs, Nainital. J. Bombay Natural History Society., 182: 13-21.
- [13] Palmer C.M. 1969. Composite rating of algae tolerating organic pollution. British Phycology Bulletin, 5:78-92.
- [14] Philpose M.T., 1960. Freshwater phytoplankton of Inland fisheries proc. Symp. Algology., 279-291.
- [15] Srinivasan, Sounda Raj R. and Franklin, T. 1974. Diurnal and seasonal changes in a productive shallow tropical pond. Phycos, 80-103.
- [16] Tripathi A.K. and Pandey S.N., 1990. Water pollution. Ashish Publishing House.

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- [17] Verma M.C., Singh S.N. and Thakur, P. 2001. Ecology of perennial wetland: An overview of limnobiotic status. J. Env. Poll. 8(1):53-59.
- [18] Zafar A.R. 1967. On the ecology of algae in certain fish ponds of Hyderabad, India III. The periodicity. Hydrobiologia. 30: 96-112.