PRELIMINARY STUDIES ON THE ABIOTIC CHARACTERISTICS OF THREE LENTIC WATERBODIES OF KUMAUN HIMALAYAS

D.S RAWAT, GULAM ALI, N. N. PANDEY *

Department of Zoology and Environmental Science, BFIT, Dehradun, Uttarakhand *Directorate of Coldwater Fisheries Research, Bhimtal, Nainital, Uttarakhand Email drsandeep_rawat@yahoo.com

Received: 22.09.2012 Revised: 03.11.2012 Accepted: 14.12.2012

ABSTRACT

The research paper represents a brief analysis of physico-chemical characteristics of three different water bodies, viz., earthen pond, cemented pond and lake located at Bhimtal, Nainital, Uttarakhand during winter season. Study was aimed at pointing out difference in these parameters on three different types of lentic bodies and how they affect the biota.

Key words: Abiotic Factors, Earthen Pond, Cemented Pond, Bhimtal Lake, Kumaun Himalaya.

REFERENCES

- APHA. (1985). Standard methods for examination of water and wastewater, 16th ed. *American Public Health Association*, New York, 119: 25-40pp.
- Bhatt, S.D. and Pathak, J.K. (1992). Himalayan Environment: Water quality of drainage basins. *Shree Almora Book Depot*, Almora. 318p.
- Boyd, C.E. (1982). Water quality management for pond fish culture. *Elsevier Science Publishing Company*, New York.
- Boyd, C. E. and Pillai, V. K. (1984). Water quality management in aquaculture. *CMFRI*, *Spl. Pub.*, 22:1-96pp.
- Dobriyal A K (1985). Ecology of limnofauna in the small streams and their importance to the village life of Garhwal Himalaya/ Uttar Pradesh J Zool. 5 (2): 139-144.
- George, M.G. (1961). Observations on the rotifers from shallow ponds in Delhi. *Curr. Sci.*, 30: 268-269pp.
- Joshi, B. D., Pathak, J. K., Singh, Y. N., Bisht, R. C. S. and Joshi, P.C. (1993). On the physicochemical characteristics of river Bhagirathi in the uplands of Garhwal Himalaya. *Himalayan J. Env. Zoo.* 7(1): 64 75pp.
- Pathani, S.S. (1995). Impact of changing aquatic environment on the snow trout of Kumaun Himalayas. *Ministry of Environment and Forest*, New Delhi. 53p.
- Raina, H S (1992). Biological resources of high mountainous lakes of Kashmir Himalaya. In: Sehgal, K.L. (Ed.): Recent Researches in Coldwater fisheries. Today and Tomorrow Publishers, New Delhi pp 45-60.
- Sarwar, S.G. and Wazir, M.A. (1991). Physico-chemical characteristics of freshwater pond of Srinagar (Kashmir) *Pollution Research*.10(4): 223-227pp.

- Sharma, R.C. and Kumar, K. (2002). Conservation and management of lakes of Garhwal, Himalaya. In ecology and conservation of lakes, reservior and rivers. *ABD publishers*, Jaipur. India. 2: 562-580pp.
- Tripathi, C.K.M. (1982). Investigation on Ganga river to determine biological indicators of water quality. Ph.D. Thesis, Banaras Hindu University, Varanasi.