**Abstract**

Extensive information are made available on the aestivation of air .breathing fishes (Smith, 1961; Natarajan, 1985 ; Mckenizle and Randall, 1990) but practically nothing is known on the aestivation of *Macropoduscupanus*. In this communication, the results of some investigations on the aestivation of *Macropoduscupanus*are described as it is known to have acquired the faculty of surviving period of severe drought.