

Zonation of endemic ichthyofauna conservation area in ancient lake Towuti, South Sulawesi, Indonesia

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Abstrak

lake towuti is a tectonic-oligotrophic (A=56000 ha) located in malili complex, south sulawesi and has been designated as a recreation park. this lake is one of the ancient lakes in sulawesi. there are 29 fish species from 13 families in lake towuti, 19 species are endemic. all of the andemic fishes are recently utilized by people around the lake for consumption (fresh fish, dry fish and salty fish). on the other side the fast growth of fishing activities especially used a dipnet ("bagan") namely instrument unfriendly environmenral increases number, in 2007 totaled 19 and in 2009 had reached 30 pieces. an increasing number of dipnet that are operating in the waters of this indicates a threat to fish populations endemic. there are indication that lake towuti has been biologically contaminated. considering potential threats againts endemic ichthyofauna of lake towuti enough redoubted, then information about the ecological parameters already collected should be used to designate and map conservation area zoning endemic ichthyofauna.