

**ANALISIS STATISTIK PENGUJI KECENDERUNGAN POPULASI DAN
VARIASI TIPE HABITAT BUAYA *Crocodylus Porosus* DI DAERAH PASANG
SURUT TELUK ARGUNI, IRIAN JAYA**

**Statistic Analysis to Analyze Trend Population and Habitat Type Variation of
Saltwater Crocodile *Crocodylus porosus* In Tidal Area of Arguni Bay,
Irian Jaya**

Hellen Kurniati

Balitbang Zoologi, Puslitbang Biologi-LIPI, Gedung Widyasatwaloka-LIPI,
Jl. Raya Cibinong Km 46, Cibinong 16911

ABSTRACT

*The population ecology of saltwater crocodile (*Crocodylus porosus*) in Arguni Bay, Irian Jaya was studied during 1990-1998 period. In this study, the habitats were divided into five types (1. dominant vegetation *Nypa fructicans* and primary forest; 2. primary forest with floating vegetation *Hanguana malayana* along the river bank; 3. dominant vegetation *N. fructicans*; 4. mangrove; 5. lake with dominate vegetation *N. fructicans* and mangrove, along the lake bank was covered by *Barringtonia* spp, *Ficus* spp and *Callophylum* spp, whereas almost at lake offshore was covered by lotus floating plant). Results of GLM statistical analysis showed there were no significant ($p > 0,05$) interaction between habitat type and survey time, neither on the habitat type and time of survey. The Duncan test on habitat showed a grouping in three categories (A, AB and B) in which habitat 5 was at first ranking. However, there was no grouping on time of survey. From this study it was concluded that mangrove habitat was essential for *C. porosus* life and used as a nursery ground.*

Key words : *statistic analysis, trend population, habitat, *Crocodylus porosus*, Irian Jaya.*