

Effects of ecological variation in two estuaries on growth and survival of the clam *Meretrix* sp., northern Java.

Nur Taufiq Spj, Retno Hartati, I. Irwani & Baskoro Rochaddi



Taufiq, Nur Spj, R.Hartati, I.Irwani & B.Rochaddi. 2001. Effects of ecological variation in two estuaries on growth and survival of the clam *Meretrix* sp., northern Java. - Phuket Marine Biological Center Special Publication 25(1): 105-110.

Meretrix sp. were collected monthly within quadrats in two estuaries at Jepara and Tayu, northern Java.

Data on length, width and weight were used to compare growth patterns. The growth coefficients K were rather different (0.300 in Tayu against 0.364 in Jepara). Survival during desiccation was tested at room temperature (25 °C). Clams from Jepara estuary tolerated aerial exposure better ($LT_{50} = 132$ h) than clams from the Tayu estuary ($LT_{50} = 108$ h). The concentrations of lead and copper were measured in sediments. The levels were low in both estuaries.

Nur Taufiq Spj, Retno Hartati, W. Irwani & Baskoro Rochaddi. Marine Science Dept., Diponegoro University, Semarang, Indonesia.
E-mail Nur Taufiq Spj: taufiqspj_1999@yahoo.com