



The Effect of Tide Simulation on Growth and Survival of *Saccostrea cucullata* at Indoor Condition

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Abstract:

Due to the harsh environmental conditions of the Persian Gulf in terms of temperature and salinity for growing edible oysters *Saccostrea Cucullata* in the natural environment, the breeding of this species was done in controlled environmental conditions. The data indicated faster growth and reduced culture period at indoor systems. One of the issues discussed is the impact of tides on the growth and survival of this species. Tides in the Persian Gulf have mixed semidiurnal cycles, meaning that have two high and two low tides of different size every lunar day. In this study, different conditions as two tides per day, once per day and without tides were examined by three repetitions. The results indicated that the best growth and survival coefficients occur when the tide is evoked once a day.

Keywords: edible oysters, *Saccostrea cucullata*, tides, indoor breeding, Persian Gulf