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[ABS-114] Abstract Submitted to SICBAS 2018 Yahoo/Email M...

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Dear Dr. Fauziyah Fauziyah,

We have received the submission of your abstract:

Abstract ID:
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 Please use this "Abstract ID" in all correspondence (instead of abstract title).

Title:
 Influence of environmental parameters on the shrimp catch in Coastal Banyuasin South of Sumatra

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Content:

Shrimps are species with short life cycle and particularly sensitive to environmental conditions since both marine and coastal habitat. However, changes in some environmental parameters hypothesized to be the most important which can affect the shrimp catch. This study aimed to determine the effects of environmental parameters on the shrimp catch in Coastal Banyuasin. Sampling for shrimp catch was conducted at 11 stations in Coastal Banyuasin using a trammelnet fishing unit. In situ environmental parameters such as water temperature, salinity, pH, current velocity, chlorophyll-a concentration, depth, substrate type, phosphates and nitrates concentrations were recorded during each sampling time. The influence of environmental parameters on the shrimp catch percentage was analysed by stepwise multiple regression and the significance level adopted was $p < 0.05$. The analysis results indicated that approximately 64.5% of the variation in the shrimp catch percentage was explained by pH and substrate type. There were strong correlations between the shrimp catch percentage and in situ environmental parameters ($r = 0.50$ and adjusted $R^2 = 0.645$ and $r = -0.804$ and adjusted $R^2 = 0.75$), particularly pH and substrate type. The shrimp catch percentage was positively correlated with pH, but negatively with substrate type. Thus, pH and the substrate type were determinant factors in the shrimp catch percentage in the study area.

Keywords:

Banyuasin South Sumatra, Environmental Parameter, shrimp catch,

Topic:

Marine Science

Presenter:

Fauziyah Fauziyah

Type:

Oral Presentation

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