

Sustainable Development & Management of Aquatic Resources in a Changing Climate

13 - 15 March 2012 Kota Kinabalu Sabah, Malaysia



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ORAL PRESENTATION PROGRAM (MARINE SCIENCE)

13 March 2012 (Tuesday)

Keynote 1

Chairperson: Prof. Dr. Datin Ann Anton

1100 Development of Sense Organs and Behavior in Fish Larvae and Juveniles – As a Tool for Its Larval Rearing Optimization GUNZO KAWAMURA

Session 1

Chairperson: Dr. Abentin Estim

Sub theme: Sustainable Marine Tourism

1140 Collaborative Environmental Monitoring in Mabul Island, Sabah POH LEEM CHOO AND MONIQUE SUMAMPOUW

Sub theme: Harmful Algal Bloom

1200 The Uses of Phytoplankton Diversity as Biological Indicator for Eutrophication

NOR AZMAN KASAN AND JOHAN SOHAILI

Sub theme: Biodiversity and Conservation of Marine Resources-1

- Missing in Action: Flipper Tag Loss among the Sea Turtles of Sipadan and Mabul Islands, Sabah, Malaysia PUSHPA M. PALANIAPPAN, FREDYANNA G. TINSUNG, HASBULAH BUIS AND NASRULHAKIM MAIDIN
- 1240 Evaluation of Payaos in South Coast of Java Related to the Sustainability of Tuna Fisheries

 TRI WIJI NURANI, PRIHATIN IKA WAHYUNINGRUM AND MUSTARUDDIN

1300 Lunch Break and Poster Session

Session 2

Chairperson: Dr. Pushpa M. Palaniappan

Sub theme: Biodiversity and Conservation of Marine Resources-2

1400 The Sea Turtles Captured by Coastal Fisheries in the Northeastern Sulu Sea, Philippines: Documentation, Care, and Release **TEODORA BAGARINAO**

EVALUATION OF PAYAOS IN SOUTH COAST OF JAVA RELATED TO THE SUSTAINABILITY OF TUNA FISHERIES

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Abstract

During the last decade, several payaos were set up in territorial water of Indian Ocean of South Java. These payaos were used as assistive appliance in trolling fishery to catch tuna. Payaos functions as a place of fish gathering, so that the activity of fish catching operation can be made more effective and efficient. Effectiveness in the usage of payaos has increased tuna production in high values in some catching bases area in South Coast of Java. Some result from the research indicated that catching resulted from trolling fishery caught mostly the small sized tuna, which are not competent to catch. If this condition persists, it will endanger the sustainability of tuna resources. This research was aimed to determine the composition of tuna catching result and to evaluate the sustainability and estimation of stock of tuna resources. Research was done in 3 locations, which was Pacitan, Gunungkidul and Trenggalek regions. Method of analysis was to analyse the composition of catching result and analyse estimation of the stock. Result of the research indicated that dominant composition of catching result of tuna around payaos in PPP Tamperan is yellow fin, and about 68% of catching result is a small size and not competent to catch. Composition of tuna result in Sadeng were dominated by big eye tuna, about 95% is a small size and not competent to catch yet. Results showed that tuna resources were already overfished, due to increasing trolling activity at Trenggalek.