

MARINE BIODIVERSITY OF RAJA AMPAT ISLANDS

The ARMS, Morphology and Genetic Approaches for Inventorying and Monitoring Patterns of Marine Biodiversity

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INTRODUCTION

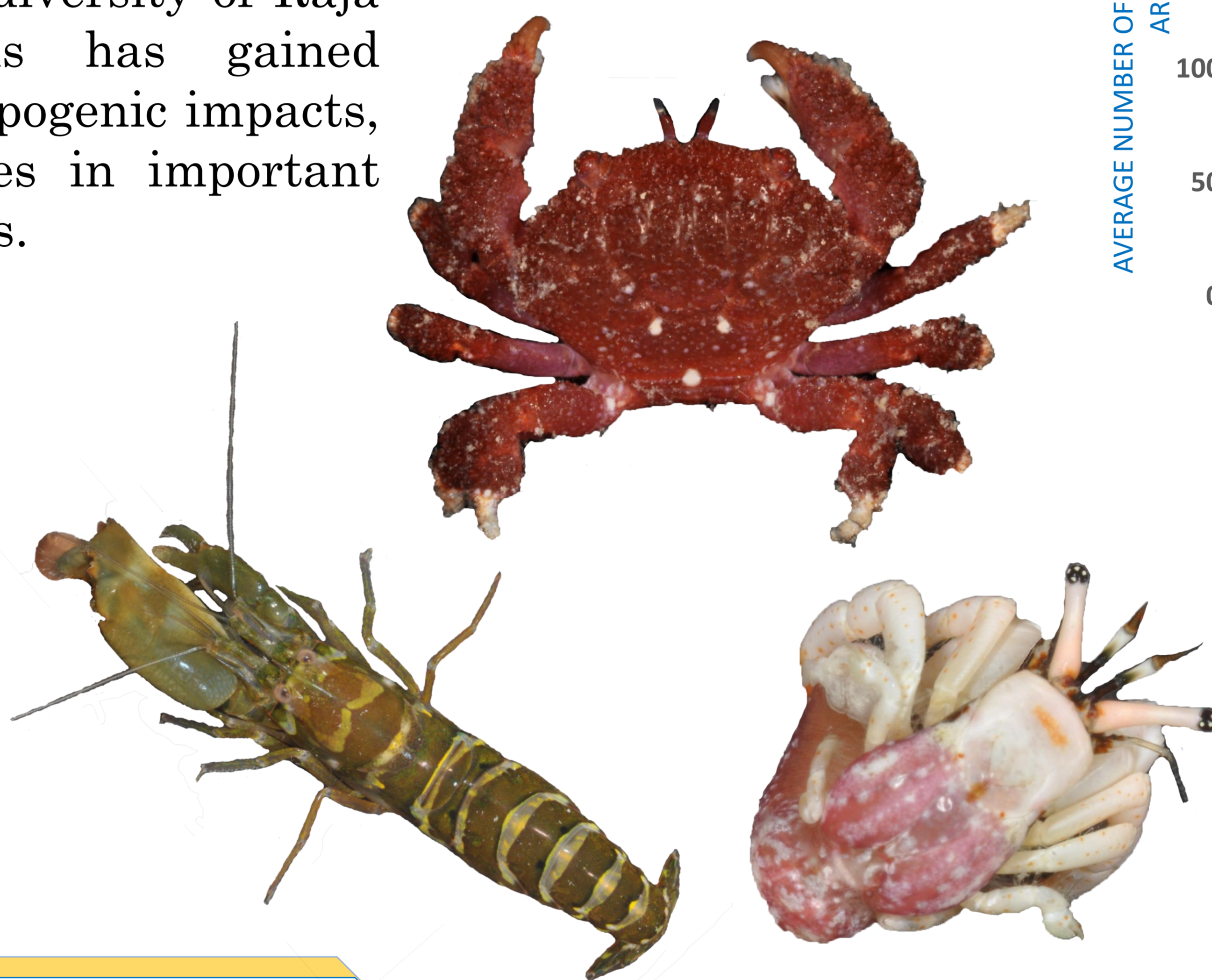
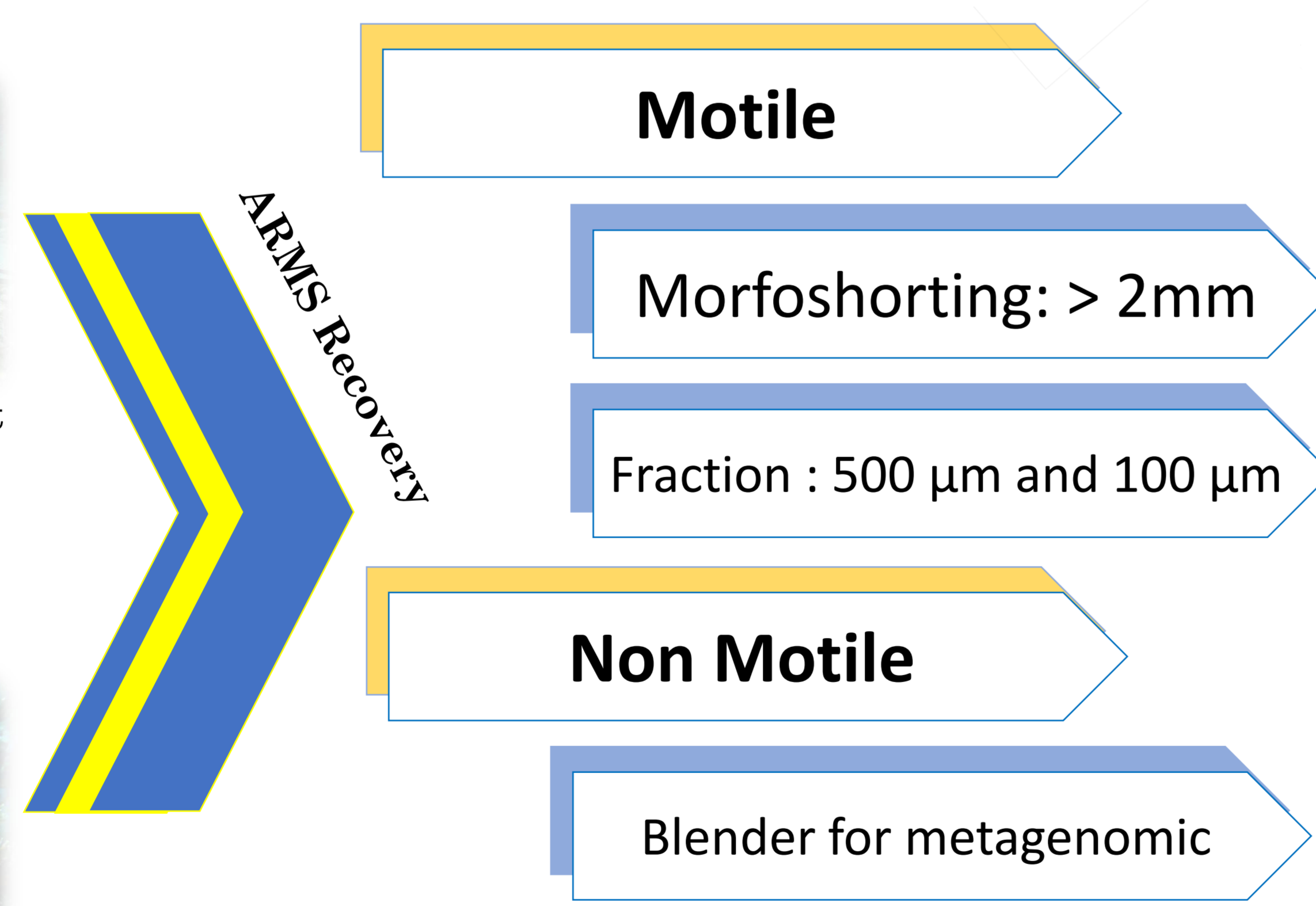
Raja Ampat has gained international scientific attention due to its high marine biodiversity and the discovery of multiple new species of corals and fish. The high levels of marine biodiversity in this region are an important part of Indonesia's natural heritage and global biodiversity. However, our understanding the processes that are responsible for shaping biodiversity patterns in this region are still lacking.

OBJECTIVES

The goals of this research are to describe the richness, study the status, and explain the spatial/temporal patterns in the biodiversity of Raja Ampat. Interest in these goals has gained momentum due to escalating anthropogenic impacts, and the need to conserve resources in important areas and hotspots of endemic species.

METHODS

This study employs a novel tool, Automated Reef Monitoring Structures (ARMS) to monitor marine biodiversity gradients across the Raja Ampat Islands in a standardized (minimizing investigator bias), highly efficient, and statistically robust way.

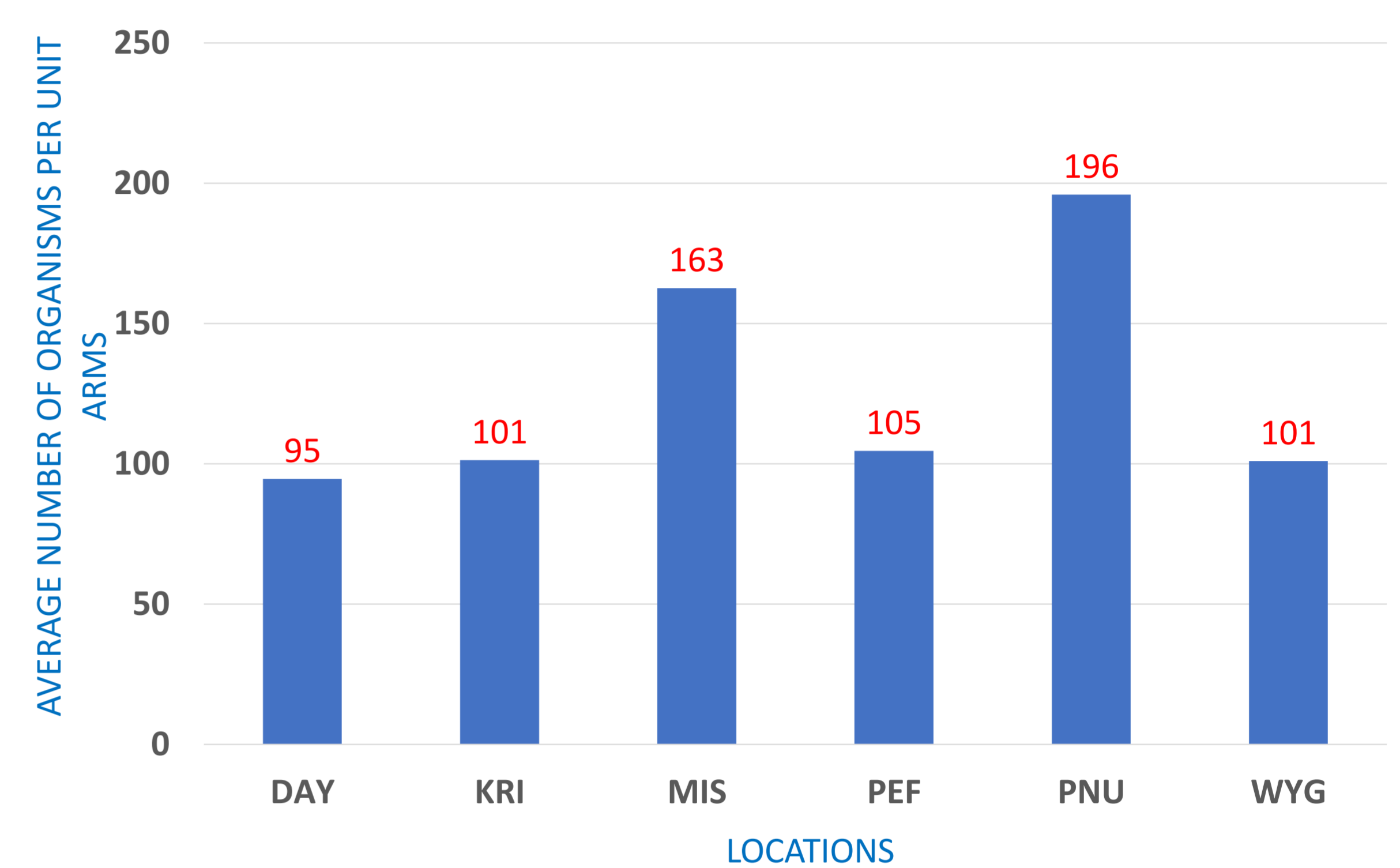


Location
 DAY : Dayan
 KRI : Kri Islands
 MIS : Misool
 PEF : Pef Islands
 PNU : Penemu
 WYG : Wayag

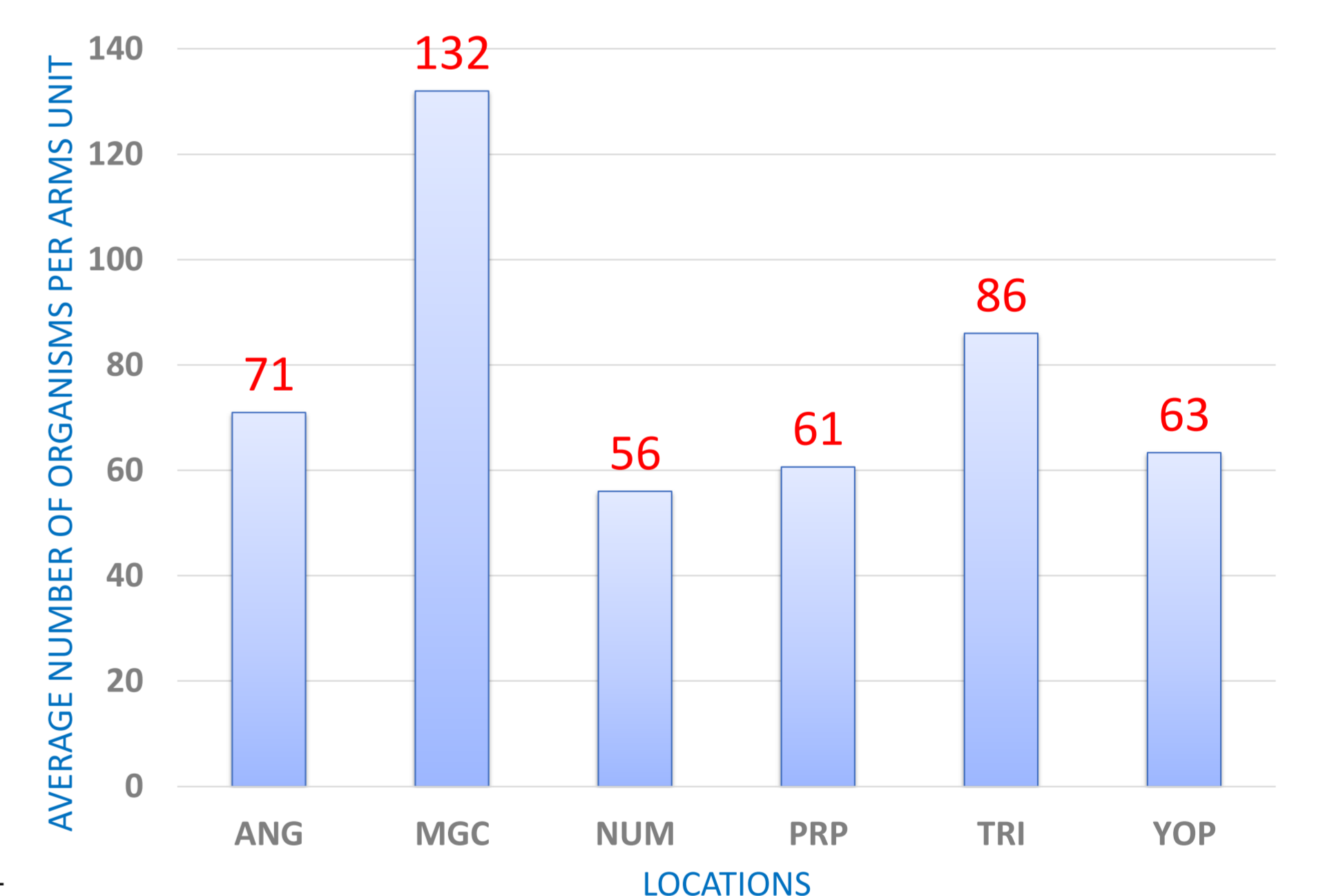
Morpho-shorting (Motive)



Raja Ampat ARMS 2 mm Organisms



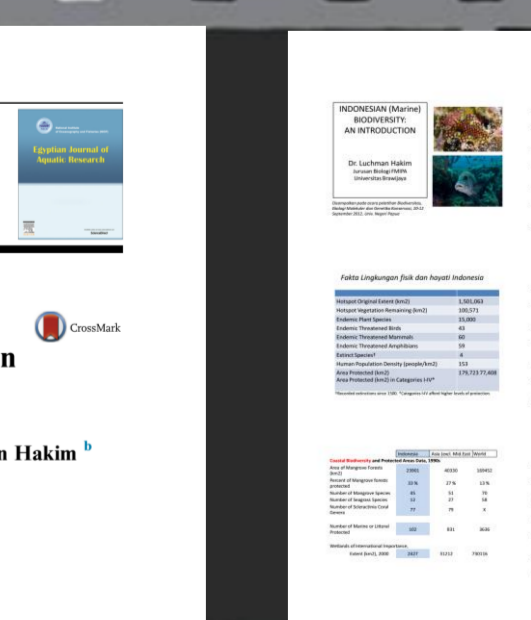
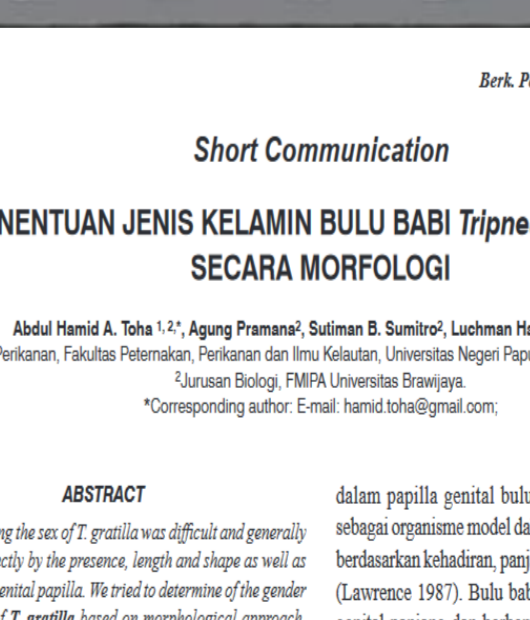
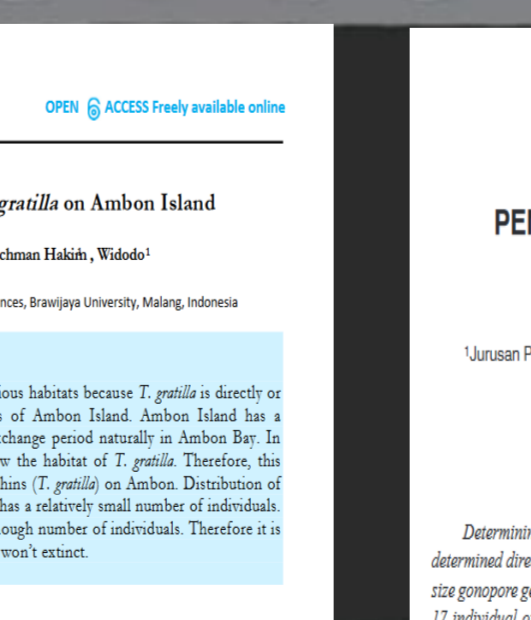
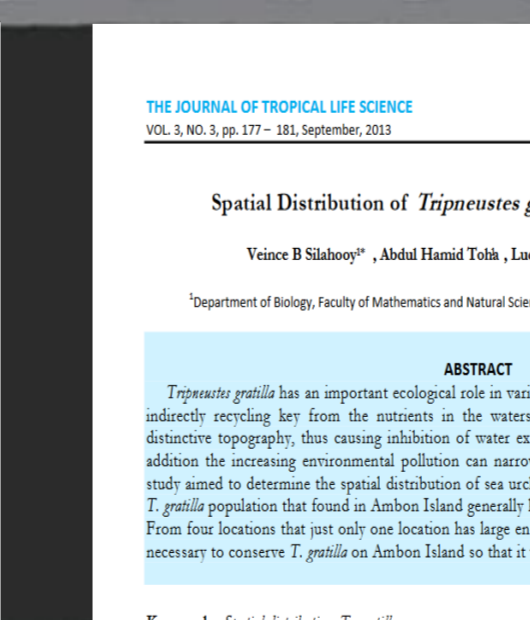
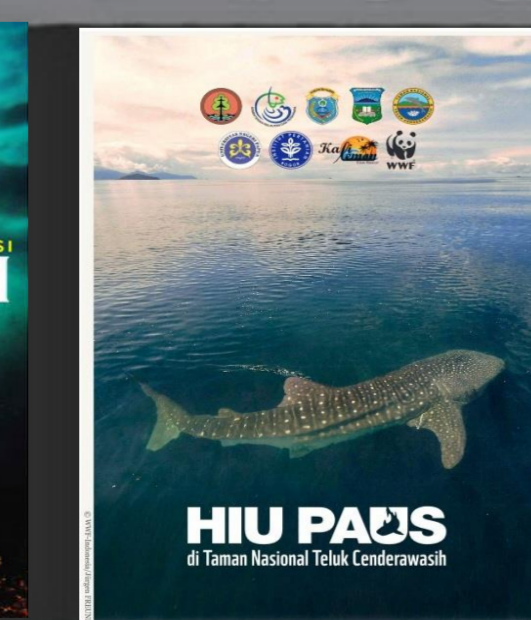
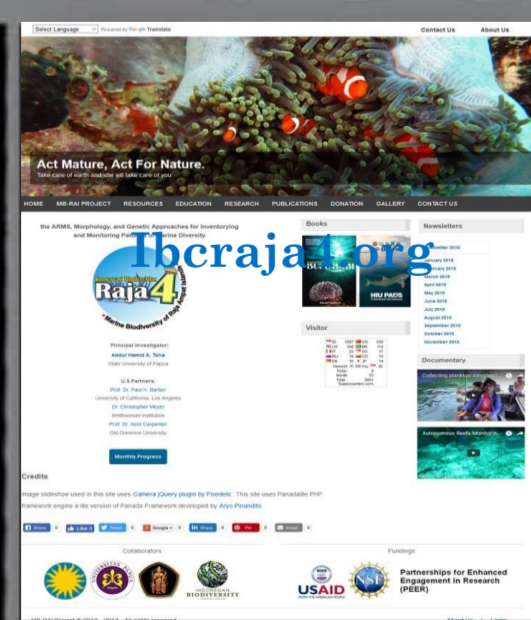
Cenderawasih Bay ARMS 2 mm Organisms



Location
 ANG : Anggromeos
 MGC : Manggaur Cape
 NUM : Numamuran Strait
 PRP : Purup
 TRI : Tridacna Atoll
 YOP : Yop Island

OUTCOMES

- Website : www.ibcraja4.org
- Books : 1. Bulu Babi, 2. Hiu Paus
- Newsletter : Buletin Konservasi Biodiversitas Raja Ampat
- Journals : 2012 : 2 Journals
- 2013 : 1 Journal
- 2014 : 4 Journals
- 2015 : 1 Journal
- 2016 : 2 Journals
- Handout, Manuals, and Teaching Material.



COLLABORATOR:



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