



**Establishment and Operation of a Regional System of Fisheries Refugia in
the South China Sea and Gulf of Thailand**

REPORT

**WORKSHOP FOR CORAL TRANSPLANTATION USING LOCAL
MATERIALS FOR SQUID HABITAT REHABILITATION**

Pangkal Pinang,
December 7th 2022

Prepared by:

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**SOUTHEAST ASIAN FISHERIES DEVELOPMENT CENTER
TRAINING DEPARTMENT**



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VENUE

Swiss-Belhotel, Pangkalpinang.

OBJECTIVE OF THE MEETING

This workshop aimed to deliver a technique and learning experience for rehabilitating coral reefs as squid habitats using local material in Bangka Belitung areas.

MEETING NOTES Meeting Agenda**Presentation by Trainer (Indra Ambalika Syari)**

Coral transplantation is one of the efforts in rehabilitating coral reefs. This was important to overcome the damaged coral reef. A success story in coral reef conducted in 2009-2011 showed a successful result. Nevertheless, several parts of the transplantation area showed unsuccessful results. Several important points are to be concerned, i.e., cost of transplantation, affected factors to the transplantation success, human resources, time needed to restore the coral reef, and risk estimation. The coral transplantation model implementable in Bangka Belitung could be operated in line with the tourism attraction activities. This activity could be promoted through educational institutions and the local community. Thus, the awareness in providing coral reef sustainability.



Coral transplantation substrate using roof tile as local materials

Another experience in rehabilitating through cooperation between industrial and university was conducted in 2018. PT. TIMAH is one of the mining industry existed in Bangka Belitung Province in cooperation with Bangka Belitung University conducting coral transplantation activities in Putri Islands, Panjang Island, Batu putih waters, and Tanjung malala. Several important points are achieved from the transplantation result, i.e., the selection of transplantation is important. This was due to most of the high-sedimentation rate waters promoting failed coral transplantation. Location selection by considering affected parameters such as sedimentation rate is important to conduct prior to the coral transplantation activities. Furthermore, the institution responsible for the coral transplantation maintenance was also essential to develop in order to ensure the success of transplantation activities.

LIST OF PARTICIPANTS

No	Name	Gender (M/F)	Institution
1	Yayan Hikmayani	F	Fisheries Research Center, MMAF
2	Iswari Ratna A.	F	RIFRE, MMAF
3	Esraawaty	F	Public Aquatic Fisheries Research Center and Fisheries Instructor
4	Muhamad Yusuf	M	Public Aquatic Fisheries Research Center and Fisheries Instructor
5	Arsih	M	Fisherman community Simpang Mapur
6	Iwan	M	Tuing Fisherman community
7	Budi Awan	M	Tuing Fisherman community
8	Angga Satria	M	Mapur Fisherman community
9	Riwan Kusmiadi	M	Bangka Belitung University
10	Herman	M	Napoleon Fisherman community
11	Ma'aruf A.	M	Napoleon Fisherman community
12	Adam D.	M	PT Timah
13	Obed A.	M	PT Timah
14	Sugianto	M	Bahari Fisherman community
15	Djunhak	M	Bahari Fisherman community
16	Ode A.D	M	PT Timah
17	Arda	M	Rebo Fisherman community
18	Rusdyansyah	M	Harapan Baru Fisherman community
19	A Febrianto	M	Departement of Maritime Affairs And Fisheries of Bangka Belitung Province
20	Aditya Pamungkas	M	Bangka Belitung University
21	Nilawati	F	Department of Maritime Affairs and Fisheries of Bangka Belitung Province
22	Wahyu	M	Department of Maritime Affairs and Fisheries of Bangka Belitung Province
23	Fhores Fherado	M	Department of Maritime Affairs and Fisheries of Bangka Belitung Province
24	Kurniawan	M	Bangka Belitung University
25	Yeyen Mardyani	F	Regional Planning Agency of Bangka Belitung Province
26	Indra Ambalika	M	Bangka Belitung University
27	Ginanjari Adhi A	M	RIFRE, MMAF
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29	Nanang W.	F	RIFRE, MMAF
30	Rian	M	Department of Maritime Affairs and Fisheries of Bangka Belitung Province

31	Auliyo Dwi Putra	M	Department of Maritime Affairs and Fisheries of Bangka Belitung Province
32	Tatok P.	M	RIFRE, MMAF
33	Danu W	M	RIFRE, MMAF
34	Jimmy	M	Department of Maritime Affairs and Fisheries of Bangka Belitung Province
35	Endang	F	Fisheries Research Center, MMAF
36	Aira Zata	F	<i>Fisheries refugia Project</i>

MEETING DOCUMENTATION



Transplantasi Karang Berbahan Lokal untuk Rehabilitasi Habitat Cumi -cumi

Oleh :

Indra Ambalika Syari

Dosen Ilmu Kelautan Universitas Bangka Belitung
HP/WA : 0821-7528-0815



Pangkalpinang, 07 Desember 2012

Transplantasi Karang merupakan salah satu upaya rehabilitasi terumbu karang yang semakin terdegradasi melalui pencangkokan atau pemotongan karang hidup yang selanjutnya ditanam di tempat lain yang mengalami kerusakan atau menciptakan habitat baru.





Murex

DIVE RESORTS





Peta Lokasi Peneggelaman Rumpon Atraktor Cumi :



Sumber : Peta Google earth, 2007



By : Indra Ambalika
Tuing, 15 Oktober 2012



Pelajaran Riset Transplantasi Karang Perairan Bangka

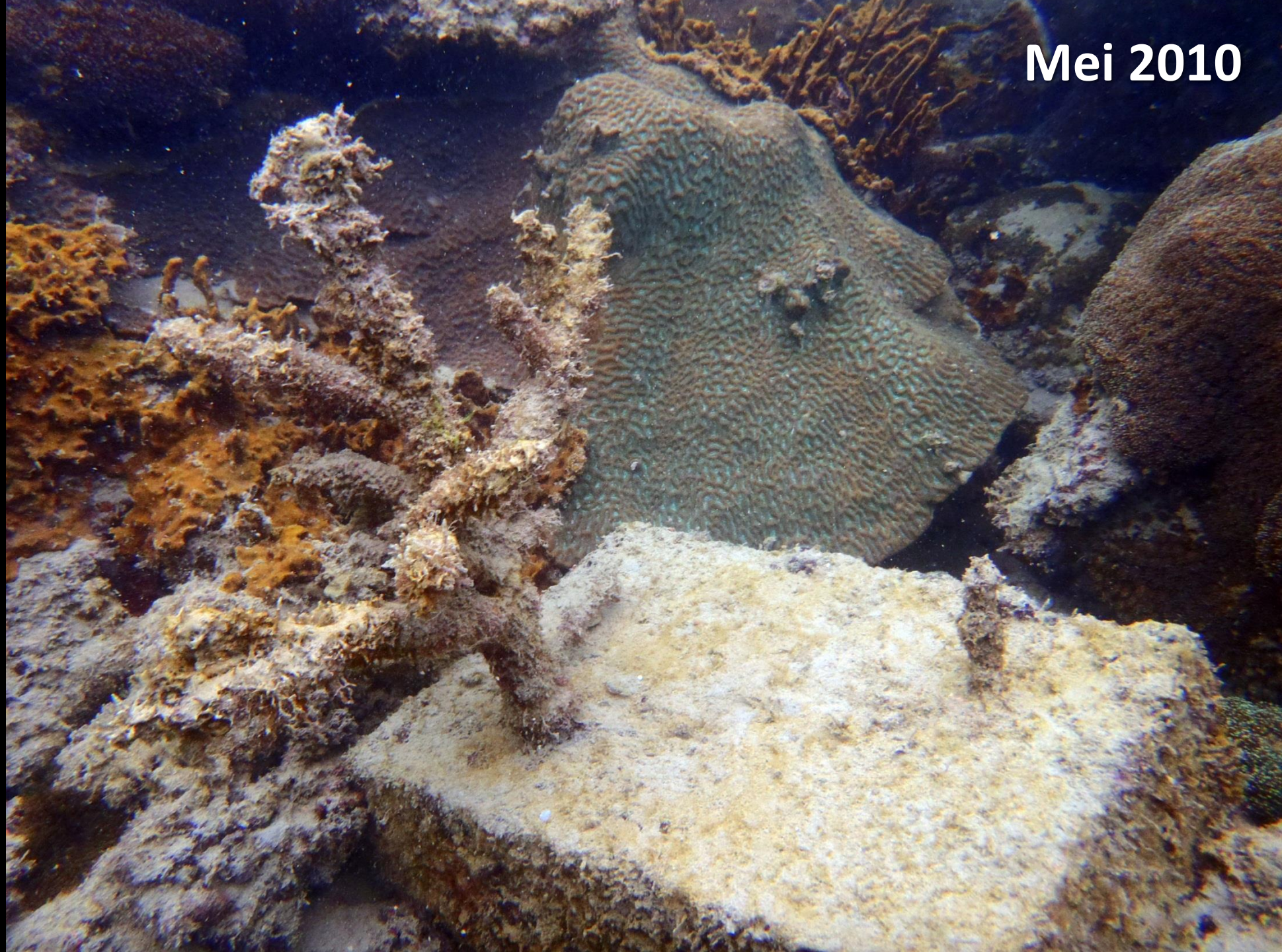


Mei 2009



Oktober 2009

Mei 2010





24 April 2010

24 April 2010

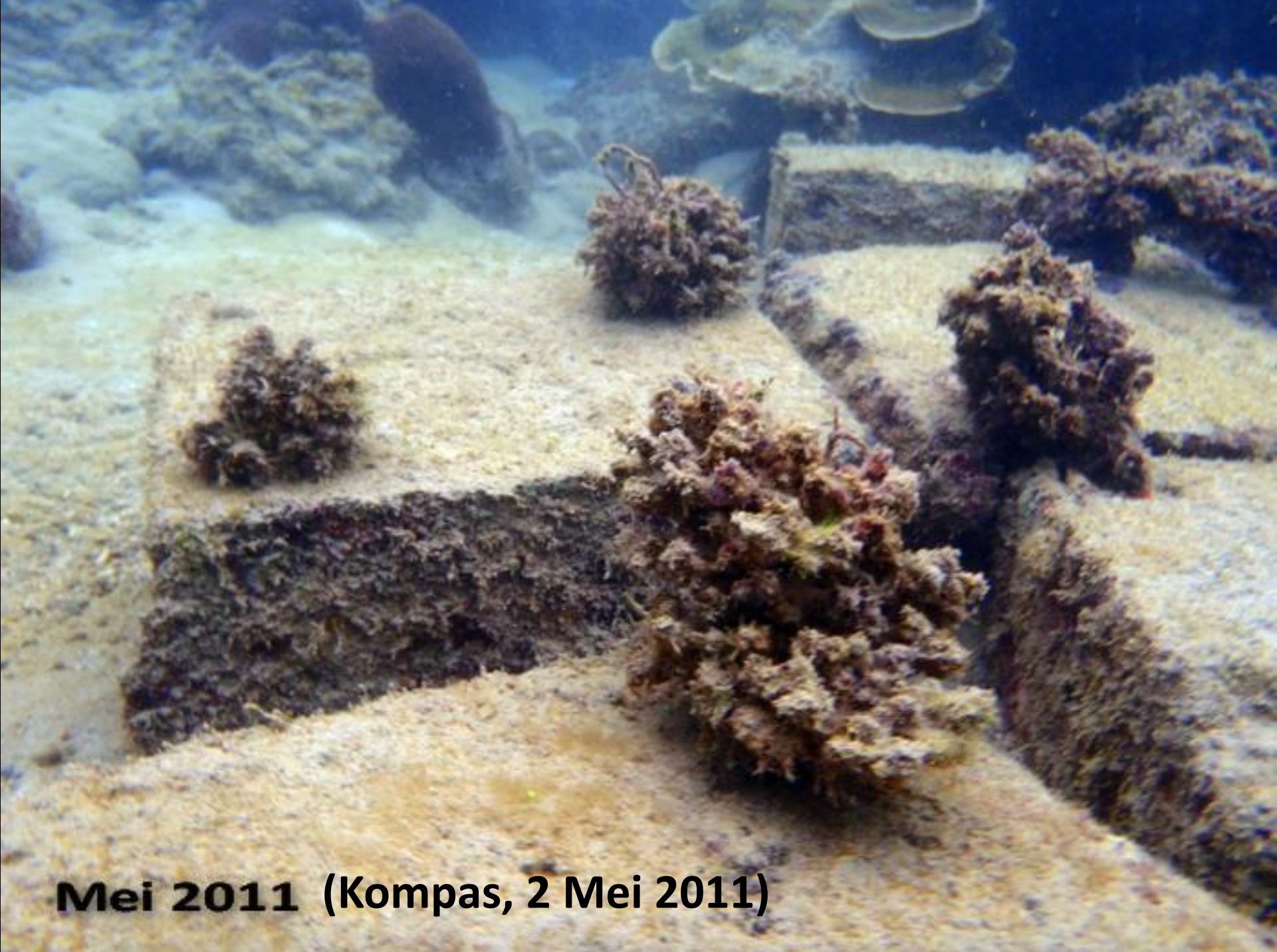


21 Mei 2010



Oktober 2010





Mei 2011 (Kompas, 2 Mei 2011)

7 Nov 2011





05 April 2015

05 April 2015



Karang Kering Rebo - Bangka, Mei 2011





C. N. 17

WAHYUDI R. D

P.

EKA Y. S

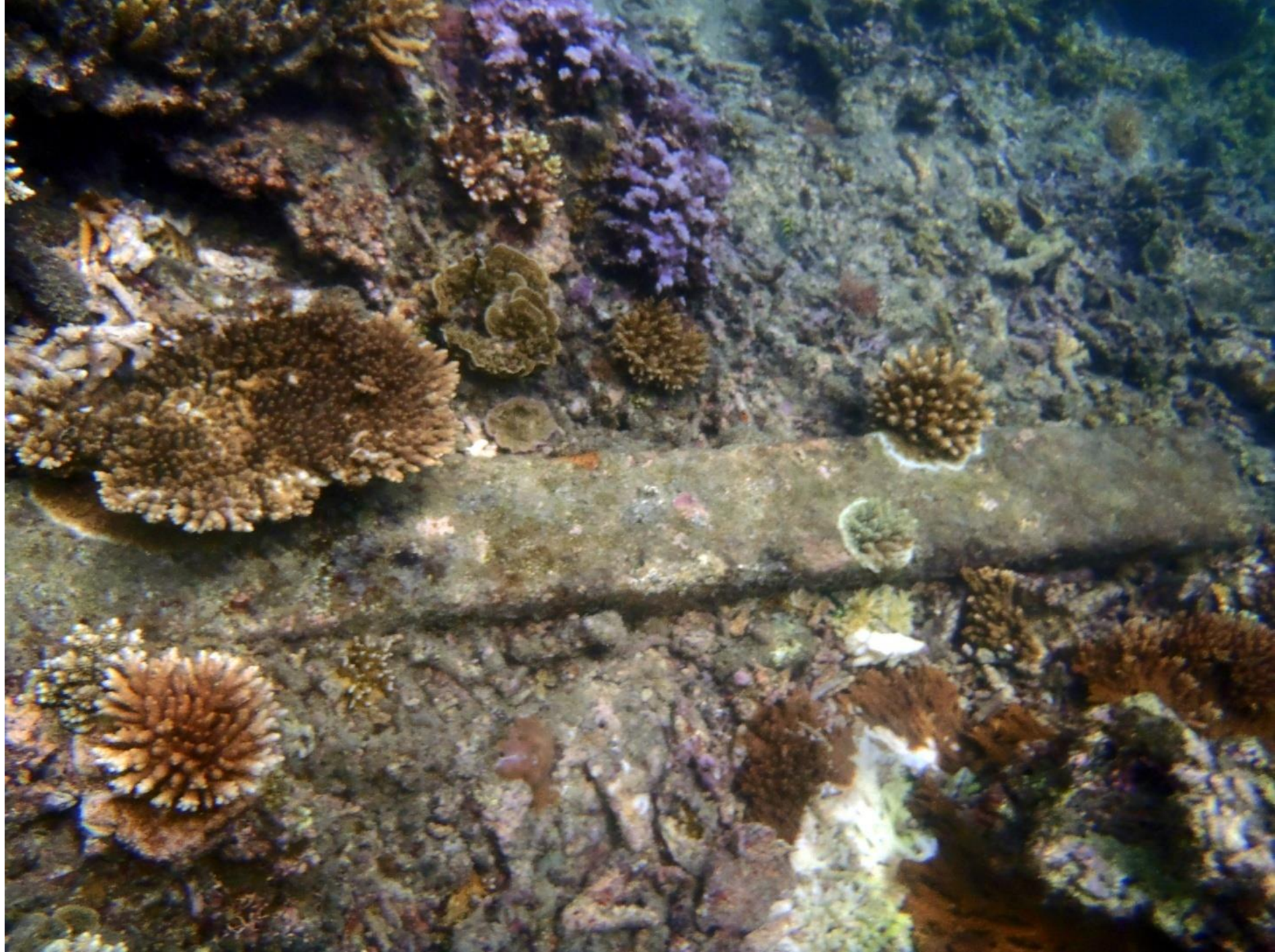
10 Mei 2014



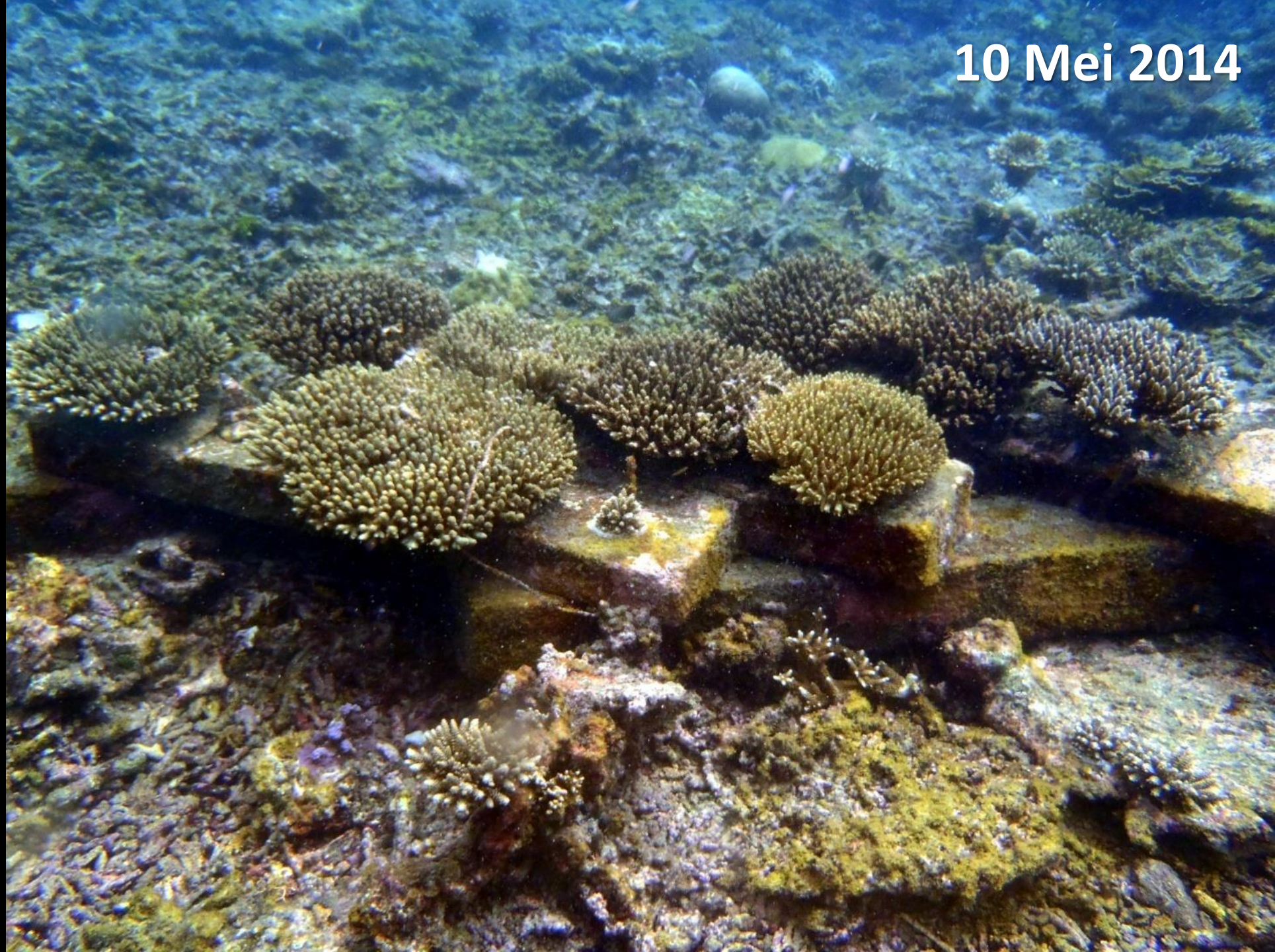








10 Mei 2014



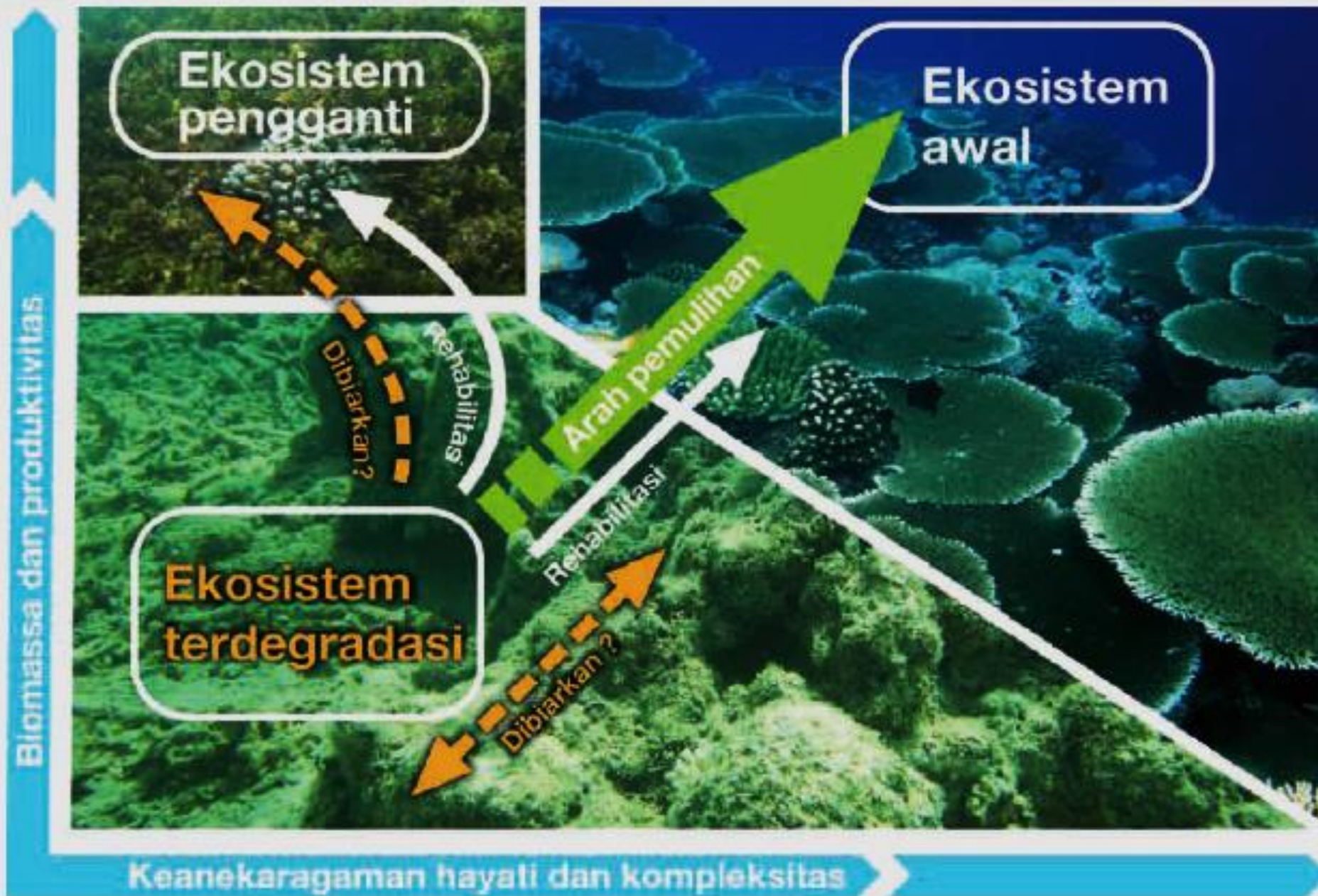
April 2016



(-) PROGRAM TRANSPLANTASI KARANG

1. Banyak menghabiskan biaya
2. Banyak faktor yang harus diamati (kurang focus)
3. Banyak menghabiskan energi (tenaga)
4. Perlu waktu yang lama bagi ekosistem/lingkungan untuk kembali pulih (*recovery*)
5. Resiko **GAGAL!!!** (khususnya di laut)

Fungsi ekosistem



Struktur Ekosistem

Model Transplantasi Karang yang dapat diterapkan

ATRAKSI WISATA BAHARI







Tuing, 21 Nov 2015



Semujuur, 26 Nov 2015



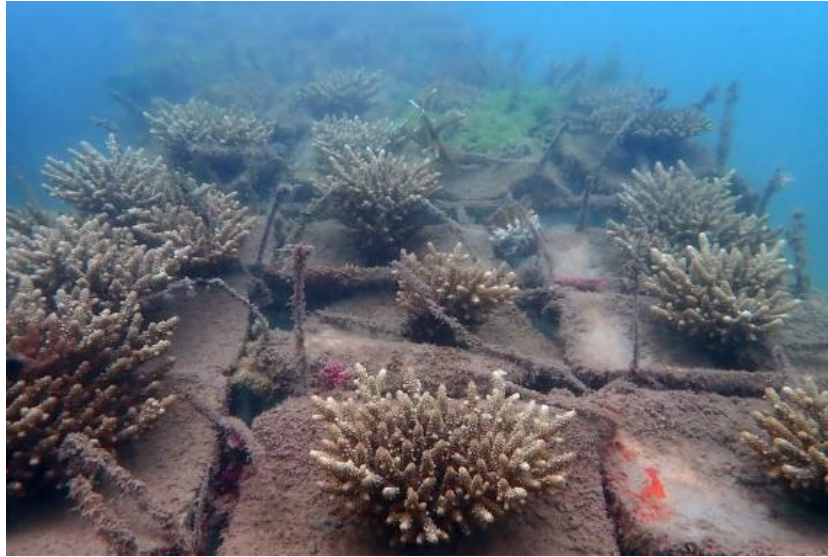




Tim dari K3LH PT TIMAH Tbk menawarkan program Reklamasi Laut kepada Universitas Bangka Belitung dengan metode; Transplantasi Karang (2018)



Transplantasi Karang di Pulau Putri Perairan Penyusuk (foto: Monitoring IV 2020)



Di lokasi lain; Karang Melantut Perairan Rebo, Pulau Panjang, Karang Batu Putih Perairan Matras, dan Tanjung Melala Parit Tiga sebagian besar karang transplantasi mati tertutup lumpur





PT TIMAH AGRO MANUNGAL







PROGRAM CORAL GARDEN
Karang Kering Bio Dusun Air Antu Desa Deniang
Kecamatan Riau Silip Kabupaten Bangka
Provinsi Kepulauan Bangka Belitung
Bangka, 10 November 2022

Direktur Utama

A handwritten signature in white ink, appearing to read "Achmad Ardianto".

Achmad Ardianto

Evaluasi Program Transplantasi Karang

- Pemilihan lokasi yang mendukung program transplantasi karang; kondisi perairan dan sumber bibit karang
- Output kegiatan dari program transplantasi karang yang jelas dan berkelanjutan
- Manajemen kelembagaan; perawatan dan pemanfaatan program transplantasi karang

