



REPORT

COMMUNITY-BASED MONITORING AND OBSERVING

COMMUNITY SURVEILLANCE GROUP

KOTAWARINGIN BARAT DISTRICT, CENTRAL KALIMANTAN

2017

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FOREWORD

Praise the Lord for all of His grace this report about Community-Based Monitoring and Observing In Kotawaringin Barat District, Central Kalimantan Province, could be finalized well.

This report is actually part of reporting series from Dugong and Seagrass Conservation activity in Kotawaringin Barat. This report is expected to give an overview of community surveillance group activity in Kotawaringin Barat. We do hope that community participation in dugong and seagrass conservation in Kotawaringin Barat could grow independently.

Kotawaringin Barat, December 2017

Author

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INTRODUCTION

1. Background

Dugong (*Dugong dugon*) is herbivore mammals that lives in shallow waters, spreading from East Africa coastal until Southeast New Guinea Papua. The spread of dugong in Indonesia very thorough and almost spreading in every shallow waters in Indonesia. The existence of dugong cannot be separated from the development of sea grass area as their main food source. Seagrass is flowering plants (*Angiospermae*) that submerged in the water column and well blooming in the shallow waters and estuary.

Marsh (2002) predicted that in 1970s the population of dugong in Indonesia are between 10.000 but in 1994 the population decreasing into 1.000. But that amount wasn't valid and couldn't be used as a based to see the rate decreasing of population in certain times.

Taken from IUCN criteria, dugong is one of the vulnerable species and facing it times to extinct. Whilst based on CITES, dugong is one of the Appendix 1's list that means it cannot be traded. Dugong relatively long-lived but has a low population growth rate so Indonesia Government insert it to the category of protected animals based on PP. No. 7 1999.

In the effort to conserve dugong and its habitat in Indonesia, The Ministry of Marine and Fisheries (KKP) making a cooperation with Indonesian Institute of Sciences (LIPI), Bogor Agricultural University (IPB), and WWF-Indonesia that also supported by United Nation Environment Program-Conservation Migratory Species (UNEP-CMS) and Muhammed bin Zayed Conservation (MbZ) in a program called Dugong and Seagrass Conservation Project (DSCP). This program has started from 2016 and planned to be ended in the end of 2018, which consist from the main events:

1. Proposal 1 (ID1) Strengthen and Operationalize National Policy Strategy and Action Plan for Dugongs and Seagrass Conservation,
2. Proposal 2 (ID2) Improving National and Research of Dugong and Seagrass in Indonesia, and
3. Proposal 3 (ID3) Community Based Conservation and Management of Dugong, and Seagrass Habitat in Bintan, Kowaringin Barat, Alor, and Tolitoli

One of the activities in DSCP-Indonesia that become WWF-Indonesia responsibility is the implementation of ID3 proposal at Kotawaringin Barat-Kalimantan Tengah, which to manage the dugongs and seagrass conservation that based on community. This ID3 program focus on building capacity of local communities as an effort to suppress threats to dugongs and seagrass, also to increase the participation from local communities to protect and preserving dugongs and seagrass.

Community involvement through community surveillance group by monitoring the fisheries and also protected species especially dugongs in Kumai Bay coastal area. This activity happening after the training in August 2017. With the direct involvement of community, we expect that the care from the community itself to dugongs and fisheries habits will continue to grow.

2. Objectives

The objectives from these activities: the local communities can be participated in in ensuring the sustainability of sustainable fisheries, help the fishery guard in term of monitoring in field, and participated in the implementation of dugongs and seagrass conservation in Kotawaringin Barat District.

3. Time and Location

The monitoring and observation of dugongs and seagrass conservation has been done after the community surveillance group training at Teluk Bogam Village (which held in 21-23rd of August 2017) in August – December 2017 at Kumai Bay coastal area.

MONITORING

Patrol is a routine activity that the community surveillance group do. this activity would monitor all of activities in Teluk Kumai, from boat activity, fishing, until protected species, especially dugong.

1. Bakau Bersatu

This patrol began from 08.00 AM to 03.00 PM WIB on October 14th 2017. The patrol was conducted by 7 people from community surveillance group with departure hour at 06.30 WIB. This patrol started by meeting at one of the member of the group has house, and then walked to the coastal of Sungai Bakau. Before reaching to the boat location that was going to be used to patrol, all of the members have used the canoe first, because at the time they were going to patrol, the sea was receding. After they were on the boat, the members went away and did the patrol to monitor fishery activity that the fishermen did, like their fishing gear, monitoring protected species and monitoring coral in coastal of Sungai Bakau.

There were several locations that were visited during the patrol. The first location visited was Gosong Beras Basah. Next location was Lintas Bakau and Tanjung Pandan which was a boundary between Sungai Bakau and Kubu. After Bakau Bersatu group did patrol for ± 8 hours, the members went back to Sungai Bakau at 03.00 PM WIB. During the patrol, there was no activity that violated the law and also there was no any activity of protected species on patrol track.

2. Kubu Beach and Camar Laut

The patrol on Kubu was done by two groups, they were community surveillance group Pantai Kubu with community coastal group Camar Laut. The patrol conducted at Wednesday, October 18th 2017, starting from 06.00 AM to 03.30 PM WIB with seven members. This started by meeting at Mr. Ali Hanafiah's house, and prepared the equipment to patrol.

The patrol journey started from water area that was on people' area, then headed to the area where fishermen do fishing, Senggora. To reach this location, we traveled for ± 3 hours. In this location we found many fishermen who set crab nets, they were from Teluk Bogam, meanwhile the fishing location has been divided well, meanwhile, seagrass in Senggora area was not in well condition because it was buried by sand and the leaves were broken because of huge wave. Besides, we found turtle during the patrol. After monitoring fishery activity and seagrass in Senggora, the members decided to go back to the village at 03.30 PM WIB.

3. Laut Indah

The patrol activity that was conducted by Laut Indah community surveillance group in Teluk Bogam was one of group's work plan which aims to monitor fishery activity in Teluk Bogam water, this activity conducted on Wednesday, November 1st 2017 with three members. Right at 06.30 AM, the members of the group departed from Teluk Bogam to patrol. The patrol route was Batu Jagung, aluran kapal, Batu Babi, and Tiang Lampu. The members chose this route because in this route usually fishermen do fishery activity and also a place where dugong was located, because there was seagrass in this spot.

The first patrol route was Batu Jagung, and then aluran kapal, and then Batu Babi. After monitoring, at the latest route (Tiang Lampu), the member of the group found a group of purse seine boat and the members came over to the group. The purse sein boats that the fishermen used was eight boats which came from Kumai Sub-District and was fishing for *gembung* fish at Teluk Bogam. After the members did monitor, the fish gears that the fishemermen were using were acceptable gears, so the members went back to Teluk Bogam with the same route and reached Teluk Bogam at 12.30 WIB.

OBSERVING

The observation that based on community is activity that has been agreed upon the community surveillance group members. In this activity the members of community surveillance group or fisherman will sharing the information that obtained from their fisheries activities. The information that obtained were telling us about the uses of unfriendly environmental tools that still operated in the Kowaringin Barat District sea area and the appearance of protected species in the sea.

1. Capture Activity Violation

First information came from Kubu Village group that there were 2 ships from Jawa that operated near Senggora. According to community surveillance group members, those fisherman from Jawa were searching for sea cucumbers in the coral reefs area that's been starting from 17th September 2017. The suspicion from community surveillance group members that the fisherman doesn't have any permission to operate in the area and the possibility of catching turtles. This information then forwarded to the Office of Marine and Fisheries of Central Kalimantan Province.

Next is the seizure of fishing gear by community surveillance group members from Teluk Bogam Village. In 10th October 2017, 05.00 WIB Mr Idum (one of the members of community surveillance group) set out to the sea from Teluk Bogam Village to lift the crab net that installed in Gosong Beras Basah waters area. Just before the fisherman pulling up his net, he found some of other fisherman group who catching fish with trawl (illegal gears to catching fish) in Gosong Berat Basar waters area near the lighthouse with seven boats that came from Sungai Bakau Village. That community surveillance group member directly approached those group of fishermen who committed the violation, but only 4 boats arrested while the rest got away. After he seized the illegal fishing gears, he carried them to Teluk Bogam Village to be reported to Head chief of Teluk Bogam Village and get fined or warnings. The decision of Head Chief just giving them warnings and withhold the illegal gears for two days before he returned it again. Before that those group of fisherman have signed the statement letters to not using those illegal fears again in Kumai Bay waters area (Appendix number 2).

2. Protected Species

There was several information about the protected species that obtained from community surveillance group members but also fisherman. Those species are dugong, turtle, irrawaddy dolphin, dolphin, and whales. The information of the appearance of dugong only obtained from one man, Syahrian that almost see dugong every time he sails, from September to November he saw 12 (twelve) dugongs in Gosong Beras Basah waters area. Look at picture number 1.

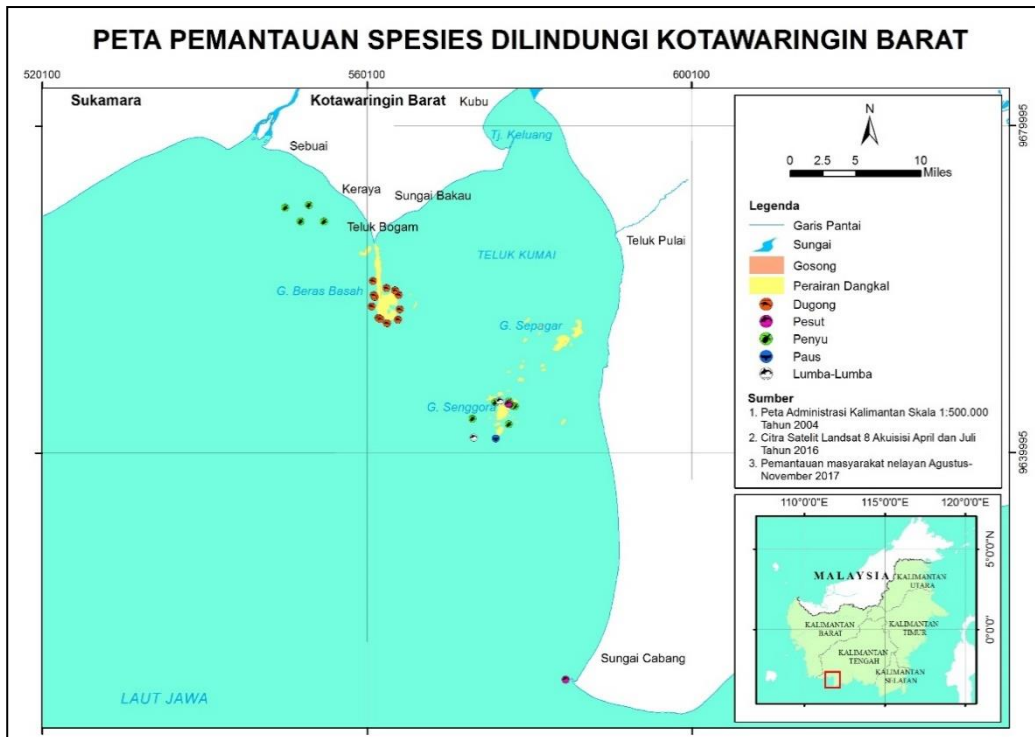


Figure 1. The distribution of protected species reappearance in Kotawaringin Barat district from September-November 2017

The size of dugongs that's been seen by the fisherman was very diverse that shows there were many dugongs that appeared. The largest dugong appeared in Batu Babi Area with size estimation ± 2 meter and weight approximated up to 300 kg. The smallest size was estimated around ± 1 meter with weight approximated up to 100 kg (Appendix 3).

The information of tortoise appearance came from community surveillance group and fisherman, whilst quite often. But only 10 appearances that came into the report. The area that having the most appearance was in Gosong Senggora area with 7 appearance and Keraya water area with 4 appearance. From the description of community surveillance group and fisherman there are two tortoise type possibilities that moving around Kumay Bay, green tortoise (penyu hijau) and hawksbill (penyu sisik). The size estimation of the tortoise were very diverse start from 0,5 meters until 1,5 meters. The prime time to see the appearance is between 08.00 AM to 11.15 AM (Appendix 3).

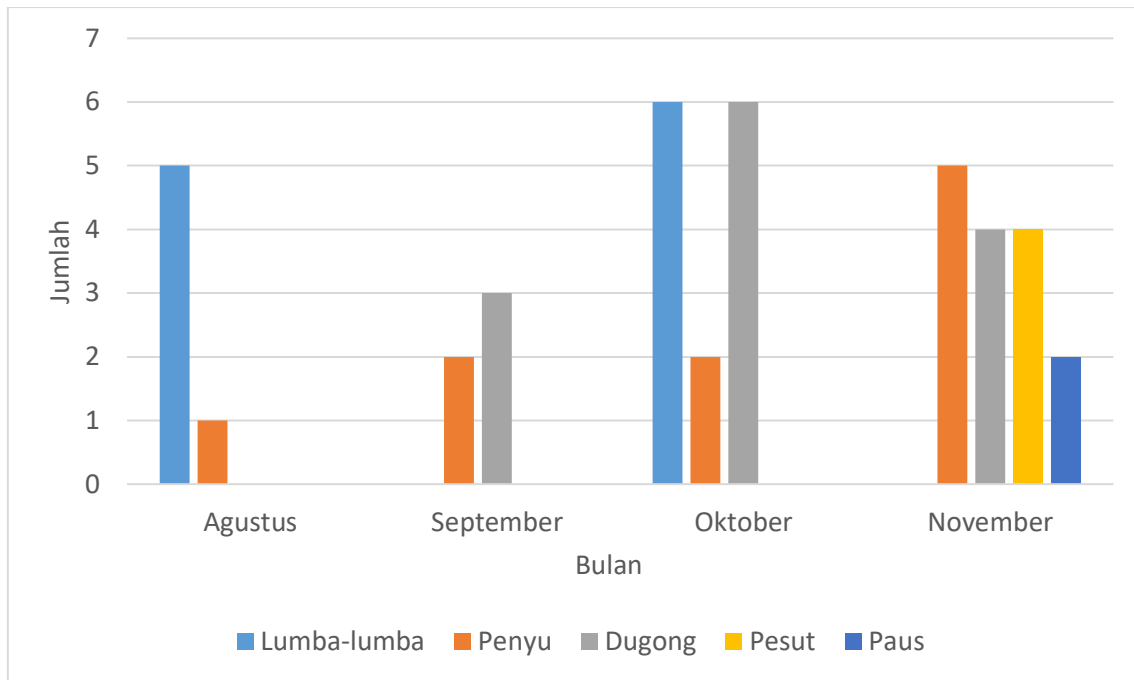


Figure 2. Protected species appearance in water area of Kotawaringin Barat District

Another protected animals that identified by community surveillance group and fisherman was dolphin with two times appearance in August and October 2017 (Picture number 2). The visible dolphins were between 5-6 dolphins near Gosong Senggora area. There were also two Irrawaddy dolphins appeared in Ujung Tanjung Putting. The next species that has been seen was two whales with the size estimation ± 12 meters. The whales have been seen in the southwest of Gosong Songgora Besar. According to community surveillance group members the early identification of the whale type could be fin whales.

Appendix 1. Patrol activity documentation



Patrol activation of Bakau Bersatu Desa Sungai Bakau's community surveillance group



Surveillance activity in Teluk Kumai water areas



Activity condition of fisherman at Gosong Sepagar



Fisherman activity while taking a break at Gosong Senggora

SURAT PERNYATAAN

Kami yang bertandatangan dibawah ini menyatakan dengan sesungguhnya bahwa :

1. Kami atas nama pribadi tidak akan mengoperasikan alat tangkap Jaring Trawl (Jaring apolo) di seputaran teluk kumai, dan Paluh Tengah.
2. Apabila dikemudian hari kami melanggar isi dari surat pernyataan ini maka, kami bersedia menerima sanksi terhadap pelanggaran tersebut, yaitu berupa penyitaan alat tangkap maupun pemusnahan alat tersebut.

Demikian Surat Pernyataan ini kami buat secara sadar dengan penuh tanggung jawab dan tidak ada unsur paksaan dari pihak mana pun .

Desa Sungai Bakau, 11 Oktober 2017

YANG MEMBUAT PERNYATAAN
ATAS NAMA 04 ORANG

1. HADRI

(.....)



2. HERMANSYAH

(.....)



3. MASRANI

(.....)



4. RAHMAN

(.....)



Mengetahui :
Kepala Desa Sungai Bakau

AKHMAD YANI

Appendix 3. Protected species appearance data at water areas of Kotawaringin Barat District from September – November 2017

No	Date	Times	Location	Species	Species Identification	Numbers	Direction	Activity	Information
1	30th-Aug-17	07.00	South west of Senggora	Dolphins	Grey colored near the fin and whitish on the below	5	Northwest	Swimming	Size estimation 3-5 meters in good condition
2	30th-Aug-17	11.00	South west of Senggora	Tortoise	Green	1	Southeast	Swimming	Raise the head to the surface while swimming with weight approximation around 50 kg
3	09th-Sep-17	09.30	West of Senggora 200 meters from gosong	Tortoise	Form of carapace, heart lookalike with green fin on the below	1	Southwest	Swimming	Raise the head to the surface while swimming with weight approximation around 50 kg and length estimation 1 meter
4	10th-Sep-17	11.00	Senggora	Tortoise	Black to grey colored	1	East	Swimming	Weight approximation 50 kg
5	23rd-Sep-17	22.00	Gosong Beras Basah	Dugong	The skin looked slippery and blue to grey colored	1	Northeast	Swimming	Length 1,5 meters with weight approximation 300 Kg
6	27th-Sep-17	21.30	Gosong Beras Basah	Dugong	The skin looked slippery and blue to grey colored	1	East	Swimming	Length 2 meters with weight approximation 350 Kg

No	Date	Times	Location	Species	Species Identification	Numbers	Direction	Activity	Information
7	30th-Sep-17	20.00	Gosong Beras Basah	Dugong	The skin looked slippery and blue to grey colored	1	East	Swimming	Length 1 meter with weight approximation 250 Kg
8	07th-Oct-17	21.30	Gosong Beras Basah	Dugong	The skin looked slippery and blue to grey colored	1	West	Swimming	Want to ear seagrass near Gosong Senggora Area with length 1,5 meters and weight approximation 300 kg
9	10th-Oct-17	22.00	Gosong Beras Basah	Dugong	The skin looked slippery and blue to grey colored	1	East	Swimming	Swimming around Gosong Beras Basah Area, length 1 meter and weight approximation 250 Kg
10	10th-Oct-17	07.00	Senggora	Dolphins	Bright grey colored	6	West	Swimming	Length 4 Meters
11	15th-Oct-17	0:30	Batu Babi	Dugong	The skin looked slippery	1	Northeast	Swimming	Raise the head to the surface to take a breath. Length + 2 meters with weight approximation + 300 kg
12	17th-Oct-17	0:00:00	Gosong Beras Basah	Dugong	The skin looked slippery and strong grey colored	2	West	Swimming	Male and female with size estimation +1,5 meter and weight approximation + 300 kg
13	18th-Oct-17	11.00	Senggora	Tortoise	Greenish	1	Northwest	Swimming	Size estimation 1,5 meter with weight

No	Date	Times	Location	Species	Species Identification	Numbers	Direction	Activity	Information
									approximation 395 kg
14	18th-Oct-17	11:15	Senggora	Tortoise	Green colored	1	Northwest	Swimming	Size 0,5 meter, with weight approximation 10 kg. Swimming near Gosong Senggora Coral Reefs area
15	27th-Oct-17	0:30	Batu Babi	Dugong	The skin looked slippery	1	West	Swimming	Length 1 meter with weight approximation 250 Kg
16	07th-Nov-17	8:00	Tanjung Puting Laut	Irrawaddy Dolphins	Grey colored	2	South	Swimming	Length 3 meters
17	08th-Nov-17	1:00	Gosong Beras Basah	Dugong	Grey colored	1	West	Swimming	Length 1 meter with weight approximation 100 Kg
18	09th-Nov-17	9:00	Perairan desa Keraya	Tortoise	Brown to greenish shell, carapace with round formed	1	East	Swimming	weight approximation 45 kg
19	12th-Nov-17	7:00	Senggora	Whale	Grey colored	2	Southwest	Swimming	Big size, width 1,5 meters, length 12 meters
20	12th-Nov-17	11:00	Senggora	Tortoise	Red to brownish colored	1	West	Swimming	weight approximation 50 kg
21	14th-Nov-17	0:30	Gosong Beras Basah	Dugong	Grey colored	1	Southwest	Swimming	Length 1,5 meters with weight approximation 200 kg

No	Date	Times	Location	Species	Species Identification	Numbers	Direction	Activity	Information
22	15th-Nov-17	11:00	Perairan desa Keraya	Tortoise	Greenish shell	1	East	Swimming	weight approximation 50 kg
23	18th-Nov-17	2:00	Tiang Lampu	Dugong	Grey colored	1	West	Swimming	Length 2 meters with weight approximation 250 kg
24	18th-Nov-17	0:01	Gosong Beras Basah	Dugong	Grey colored	1	West	Swimming	Length 1 meter with weight approximation 150 kg
25	18th-Nov-17	11:00	Antara gosong senggora besar dan kecil	Irrawaddy Dolphin	Black to greyish	2	West	Swimming	Parent and child, parent size estimation: width 1 meter and length 2 meters. Child size estimation: width 40 cm length 0.5 m
26	21st-Nov-17	8:00	Perairan desa Keraya	Tortoise	Greenish shell	1	East	Swimming	Weight estimation 40 kg
27	24th-Nov-17	9:00	Perairan desa Keraya	Tortoise	Green shell	1	East	Swimming	Weight estimation 45 kg