

#APRIGoesToSociety

# FIELD STORY

FROM APRI ENUMERATORS



Photo : Rasyid P\_Enumerator\_Rembang

June Edison

# Our Story From Field.

This our news from the field reported directly by APRI enumerators at the blue swimming crab data collection in Indonesia



## Scylla serrata For Fishermen as Non Target Species Benefit

June 28, 2023. This species is the most widely distributed type of mangrove crab. Distributed in coastal and estuarine waters of the Indo Pacific and the Western Pacific, the great mud crab is found west to South Africa, north to Okinawa, Japan, east to Fiji and western Samoa in the Pacific, and south to Eastern Australia . These crabs are also found in the Philippines, and in Kupang.

Compared to other types of mud crabs, *Scylla serrata* is the one that prefers high-salinity waters. Mud crabs are large to very large, with a maximum carapace width of between 25-28 cm and weighing up to 2-3 kg. The chelipeds are large and sturdy, with two sharp spines on the outside of the carpus (second segment, counting from the base). The facial side of the carapace (frontal margin, between the two eyes) is usually sharply serrated. The carapace is usually green **(Nafisa Fairuz)**

## Women Making Nets in Mertasinga Village, Cirebon District

June 3, 2023. One of the activities carried out by fishermen throughout Indonesia when they are not going to sea is to replace nets that have been badly damaged. This was done in the same way as Mr. Robi, a fisherman in Mertasinga Village, Cirebon Regency.

Mr. Robi himself makes nets once a month assisted by his wife. Damaged nets must be replaced with new nets because it reduces the effectiveness of the catch. The cause of the damage to the nets is usually entangled due to the influence of the waves, other reasons are usually due to the abundance of one of the marine species such as the flute swimming crab (*Podophthalmus vigil*). The initial capital for making nets is IDR 1,000,000.00 while replacing nets requires IDR 350,000.00. The time needed to make 1 set of nets is approximately 3 days. The equipment used to make nets only requires supports and objects such as needles to form the meshes. The material needed is string, while the price for the strings varies, the most expensive is Rp. 10,000.00/pack. The mesh is in the form of a rhombus with a size of 3.5 inches. Tools and materials are widely available in shops located around residential areas. Damaged nets that are broken down are subject to a price of Rp. 10,000.00 per 2-3 sets of nets. **(Meitha P.)**



## Blue Swimming Crab Vessel in Danasari Village, Pemalang, Central Java in Pemalang, Central Java

June 13, 2023. Pemalang Regency is one of 35 regencies/cities in Central Java Province which has a strategic position, being in the main economic route and the North Coast region of Central Java. Geographically, Pemalang Regency is directly adjacent to the Java Sea to the north, to the west of Tegal Regency, to the south of Purbalingga Regency, and to the east by Pekalongan Regency. According to data from the Maritime Affairs and Fisheries Service of Pemalang Regency in 2003 in the coastal area of Pemalang Regency, the majority of the community were fishermen totaling 8,872 people consisting of skipper 1,197 people (13.5%), pandega/ABK 6,660 people (75.1%) and part time 1,015 people (11.4%). One strategy in utilizing fishery production is by determining the superior capture fisheries commodity itself. Fishery resources available in the Pemalang area are very diverse and are included in the leading commodities. One of the fishery commodities with export value is blue swimming crab. The number of traps owned by each fisherman is adjusted to the size of the boat. Ships with a size of 3 GT are equipped with 500-700 traps and ships with a size of 4 GT are equipped with 800-1,000 traps.. **(Nur Arofah)**



## NTS Namely “Blekutak” from Cephalopods Which are Obtained by Pati Fishermen, Central Java



June, 21, 2023. Some of the fishery resources that is known to be economically important is from the Cephalopod class whose types consist of squid, blekutak / cuttlefish (cuttlefish) and octopus (octopus), but local people often call squid and cuttlefish as squid or blekutak. Catching blekutak by fishermen in Pati waters usually uses crab traps (by catch from traps). Almost every fisherman from Keboromo Village often finds blekutak entering their traps.

So that several baskets (fish sellers) took the initiative to buy to be resold to the market. The selling price of blekutak is also not too cheap so that it can increase the income of bubu fishermen in Keboromo Village. At the beginning of June 2023, many blekutak catches began to be found, when the price of blue swimming crab fell, the fishermen in Keboromo took advantage of the sales of blekutan to increase their income **(Ervin)**

## Types of Crab Fishing Boats on Mengare Island, Gresik Regency



June 15, 2023. Mengare Island is a village in the Bungah District, Gresik Regency, East Java. Mengare Island is divided into three cultures, due to its geographical location, namely Watu Agung Village is closer to Manyar District, Tanjungwidoro is closer to Bungah District, and Kramat Village is closer to Socah Bangkalan District. The majority of the people of the island of Pengare are fishermen who mostly look for crabs, squid and shrimp. After that they sell to middlemen. Especially for crabs sold by fishermen to a Home Industry (business house) called Mini Plant. The business is in the form of processing crab meat.

There are two types of boats used by small crab fishermen, namely boats made of wood and fiber. On June 15, 2023, an interview was conducted with one of the crab fishermen, namely Pak Ri, who is usually called Gus Ri. Information was obtained that indeed on Mengare Island there are not only wooden boats, but there are already several crab fishermen using fiber boats. There are several differences between the types of wooden boats and fiber boats. Fiber boats are more resistant to temperature changes. The natural factor that is understood by fishermen is that the air temperature in the sea is not certain. Sometimes the air temperature changes drastically from cold to hot or vice versa, causing boats made of wood to become more porous. The choice of using fiber boats will overcome these deficiencies because they are considered more durable against hot and cold temperatures. Fiber boats are very efficient for their weight because generally wooden boats have a heavy weight which causes when the boat runs aground due to the tides it will be pushed hard so it is less efficient for fishermen to go to sea. **(Pahad M.)**

## The Role of Women in the BSC Fishery Supply Chain



June 14, 2023. The role of women in a family is an important component, where women have an obligation to take care of household interests. However, there are still many women who work to help their husbands earn a living for their families, because the role of women can improve the family's economy so that they can live more prosperously and even overcome poverty. This proves that women have multiple roles in a family. One of the causes of the large role of coastal women in helping to increase income is due to the dependence of fishing communities on marine resources which are influenced by the season and the fishing gear used is still traditional. This is also a job that has been inherited from generation to generation by women in Pagagan Village, Pademawu District, Pamekasan Regency. In the fisheries supply chain, the role of women in the crab processing business is very much needed, as is the case in marketing/selling the crab catches (role as fisherman's wife), weighing and boiling crabs (role as supplier), conducting processing/peeling process (role as Picker), Supervise processing (Role as Miniplant Owner) **(Lailatul Q)**

## Happiness Fisherman Come Home with Their Catch of Blue Swimming Crab in Pamekasan



June 6, 2023. Fishermen bring their catch with a happy expression, this big catch makes fishermen happy to sell it to collectors and bring the results to their families at home. Collectors also feel that a large crab catch will make the meat have more jumbo parts so that this also makes fishermen and collectors profit. **(Farhan R.)**



## Government Visit Assistance to PT. SMB (Source Mina Bahari) in Rembang, Central Java

June 12, 2023. This mentoring activity originated from communication between the head of the Fisheries and Maritime Service of the Rembang district and the Coordinating Ministry for Maritime Affairs and Investment staff who asked about the blue swimming crab industry in Rembang Regency. The existence of this communication was continued with the head of the Rembang Regency Dinlutkan inviting the extension coordinator for an agenda visit to one of the crab industries in Rembang Regency. Then the extension coordinator contacted APRI officers in Rembang to connect with the industry in Rembang.

As a result of the communication between APRI officers in Rembang and the Rembang Regency extension, it was agreed to make a visit on June 12, 2023 at 13.00. From a visit to PT. Our SMB was met with Mr. Umar as the head of production for the industry. The head was asked about the volume of crab production every day, as well as from which areas supplied the meat. Currently, the production volume only reaches 2 tons of meat per day. For areas that supply from Madura, Rembang, as well as from West Java. But the supply from Rembang itself is only about 10% of the volume produced every day. **(Kamal M.)**

## From Crab Increases Fisherman Income in Rembang, Central Java

June 5, 2023. The majority of people in Layur hamlet, Gedongmulyo village, Rembang Regency are fishermen. Besides fishermen, there are also people who work in salt ponds, miniplants, drivers, pickers, and other land jobs. Most of the Layur people have free time in the afternoon until the evening, because at that time the fishermen have returned from fishing. In the afternoon many fishermen use their free time to repair nets or do side jobs so they can increase their income. One of the side jobs that is done is catching crabs in rivers and ponds using traps.

Bubu is a passive fishing gear used to catch crabs or crabs. Apart from being used at sea, traps can be used in rivers or shorelines to catch other crustaceans. Because the Layur hamlet is passed by a river, the community uses traps by installing them along the river to look for crabs. The Layur River has mangrove habitat (Mangroves) along the river which is a suitable habitat for crabs to breed. One of the people who uses the bubu is Andik. Andik has been an employee of Bu Tun's minipant since 2020 until now. On the sidelines of his work, he also puts traps in the river in the afternoon and then picks them up the next day. On June 5, 2023 Andik again carried out the installation of traps along the Layur river. Bubu installed in this river will get mud crabs which can be sold to collectors. One pair he can install 7 to 15 traps. The yield of the traps ranges from IDR 20,000 to IDR 150,000 depending on the crabs you get. Apart from Andik, there are also fishermen who put traps in the river, The results of this crab catch can be used to increase monthly income. **(Rasyid P.)**



## Fisherman's Activities Before Seating



June 17, 2023. Fishermen of Tanjung Pinang Village, West Muna Regency, repair and move their fishing gear before going out to sea. Fishing gear in the form of crab traps and boats is the main tool for the fishermen of Tanjung Pinang to carry out crab fishing activities. With regular fishing activities, the level of potential damage to fishing gear and engines is getting higher.

In accordance with what was done by one of the fishermen from the village of Tanjung Pinang who was carrying out fishing gear transfer activities on ships/boats, because the ship that was often operated was experiencing damage to the engine and needed repairs to the engine. **(M. Cardin)**

## Mangrove Survey Activities in Pangkep, South Sulawesi



On June 10, 2023 Mangroves are a group of plants that live in tropical coastal areas, have a mud substrate, and are resistant to salinity (Chandra et al., 2011). Mangroves are located in the intertidal area, namely the area where there is interaction between marine, brackish, river and terrestrial waters. This interaction makes biodiversity high in mangrove ecosystems.

Mangroves can live in tropical and subtropical regions. these plants associate with other plants such as fungi, microbes, algae, fauna, and other plants. and interactions with abiotic factors such as climate, air, soil, water, and to form mangrove ecosystems (Martuti et al., 2019).

Mangroves are one of the coastal ecosystems that have an important role, mangrove ecosystems have the highest level of productivity compared to other coastal ecosystems. one of the functions of mangroves is to absorb organic and inorganic materials from the land towards the waters (Nugrahanto et al., 2014).

Mangroves have a very important role in reducing carbon emissions on earth. Carbon stock is the ability to absorb carbon from the atmosphere and store it in leaves, stems, roots and sediments. the amount of stored carbon stock is influenced by the type of mangrove, density, and sediment fertility. planting patterns are also affected by the amount of carbon stock (Martuti., et al 2019).



its have economic function is to produce wood for fuel, charcoal and building materials. produces industrial raw materials such as pulp, paper tannins, textiles, food, medicines, cosmetics and so on. produce seeds of fish, nener, clams, crabs, and various other biota.

In Mandalle Village and Tamarupa Village, Mandalle District, Pangkajene Regency and the Islands, the most common types of mangroves are Rhizophora and Avicennia. Mangroves themselves are used by coastal communities as shelters for ships, dead stems and branches are also usually used as firewood. and also as a place to find mangrove crabs (Wellis).



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# This Our Story

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