

**SNAPPER/GROUPER**  
**NORTH JAVA SEA FISHERY IMPROVEMENT PROJECT (FIP) WORKPLAN**  
**DRAFT**  
**(March 2018 – December 2018)**

**Background:**

Snappers and grouper are demersal fish which snappers are part of family Lutjanidae and groupers are part of family Serranidae [Fish Source, 2014 a and b]. In Indonesia Capture Fishery Statistics, snappers caught in Indonesia are identified as Red Snapper / Kakap Merah / Bambang. In term of groupers, MMAF identified groupers in Indonesia into 5 species, i.e. Blue Lined Seabass *Cephalopholis boenak* (Kerapu Karang), Humpback Hind *Cromileptes altivelis* (Kerapu Bebek), Honeycomb Grouper *Epinephelus merra* (Kerapu Balong), Greasy Rockcod *Epinephelus tauvina* (Kerapu Lumpur), and Leopard Coral Grouper *Plectropomus leopardus* (Kerapu Sunu) [MMAF 2014].

Snappers and groupers are found throughout Southeast Asia and Western Central Pacific. The species inhabits both coastal and offshore reefs with depth range from about 12 to 100 m. Large aggregations are often observed around coral reefs, rocky areas, estuaries, and mangrove habitats but also in the steep slope waters. The Indonesian snappers fishery covers vast areas of the archipelago from North Sumatra to West Papua (the Indonesian portion of New Guinea).

Brondong Nusantara Fishing Port is one of the landing sites for snappers and groupers, located on the northern coast of Java, part of the district of Lamongan. Fishing gears for both fisheries that commonly used in Java Sea are hooks and lines (not specified), handlines hand operated, and bottom longlines. Based on the duration of fishing, can be classified into one day fishing and weekly fishing. The daily fishing area (5-10 GT) is around Tuban, Rembang, Madura, Pati, Jepara, and the weekly fishing area (> 10 GT) is around Bawean Island, Masalembu, Kangean Island, Matasiri, Banyuwangi, and also around Borneo Island.

Total landing of snappers in Indonesia was 123,416 tonnes in 2013, with Cendrawasih Bay and Pacific Ocean region being the major fishing grounds for this species, contributing 26 percent of the total catch; followed by Makassar Strait, Bone Bay, Flores Sea, and Bali Sea region (16 %); Karimata Strait, Natuna Sea, and South China Sea ( 15 %); Aru Bay, Arafura Sea, and Eastern of Timor Sea (9 % - 11.380 tonnes); and Java Sea regions (9 % - 11.069 tonnes) [MMAF,2014].

The study was conducted by MMAF from January to November 2012 in Brondong, Lamongan. This study aims to determine some aspects of population parameters of red snapper. The results showed that the average length of red snapper caught yet had a chance to spawning ( $L_c < L_m$ ). Red snapper growth equation was  $L_t = 97$ , Natural mortality (M) was  $0.49 \text{ year}^{-1}$ , mortality from fishing (F) =  $0.55 \text{ per year}^{-1}$  so that total mortality (Z) =  $1.04 \text{ per year}^{-1}$ . Value of exploitation (E) on the red snapper (*Lutjanus malabaricus*) is 0.53. It shows that the optimum level of relative utilization.

## Workplan

The FIP aims to support and contribute to the development of the improvement and sustainability of the snapper and grouper fisheries in North Java Sea.

<b>Actions/Tasks</b>	<b>Deliverables</b>	<b>Deadline</b>
Conduct scoping of fishery landing in Brondong (e.g. type of boats, gears, fishing grounds, supply chain mapping for snapper-grouper landing in Brondong)	Scoping report (boats supplying to selected supplier identified)	End of March 2018
Consult with Puriskan on the type of data improvement/needed to support the development of Harvest Strategy	Data improvement identified	<del>Jul 2017</del> April 2018
Identify landing site (this could be supplier at Brondong) for data improvement (presumably data at landing site that need to be improved)	Sites selected	April 2018
FIP participants prepare production data purchase from landing site (Brondong)	Production data available per species	July 2018
Identify field coordinator to assist in data improvement	field coordinator hired and training completed	July 2018
Implement data improvement	Data inputted into database; analyzed and submitted to the Authority	July -Dec 2018
Instalment of Vessels tracking system on boat <30 GT landing in Brondong	VTS installed and tracking report available	July 2018
Boat registration with local authority	Boat used for snapper-grouper fishing identified and registered	July 2018
FIP meetings	Regular FIP meeting to review implementation  Meeting with Brondong Port authority, Department of Marine and Fisheries (DKP) Lamongan, Department of Marine and Fisheries (DKP) East Java to discuss issues about data collection and catch	- March 2018 - Dec 2018

	certificate (SHTI)  Meeting with MMAF updating FIP progress	Dec 2018
<b>Communication and Promotion</b>		
Update Progress report in the available industry website	Progress up to date in website	June and Dec 2018
Outreach and awareness	FIP is presented in Seafood Expo of North America in Boston FIP progress is uploaded in <a href="http://www.fisheryprogress.org">www.fisheryprogress.org</a>	Mar 2018