



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

REPORT

**COLLECTION OF FISH EGGS AND LARVAE IN MASINLOC BAY,
ZAMBALES, FROM JANUARY TO DECEMBER 2018**

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1. Objectives

To process and analyze the fish eggs and larvae samples collected in Masinloc bay, Zambales, every quarter in 2018.

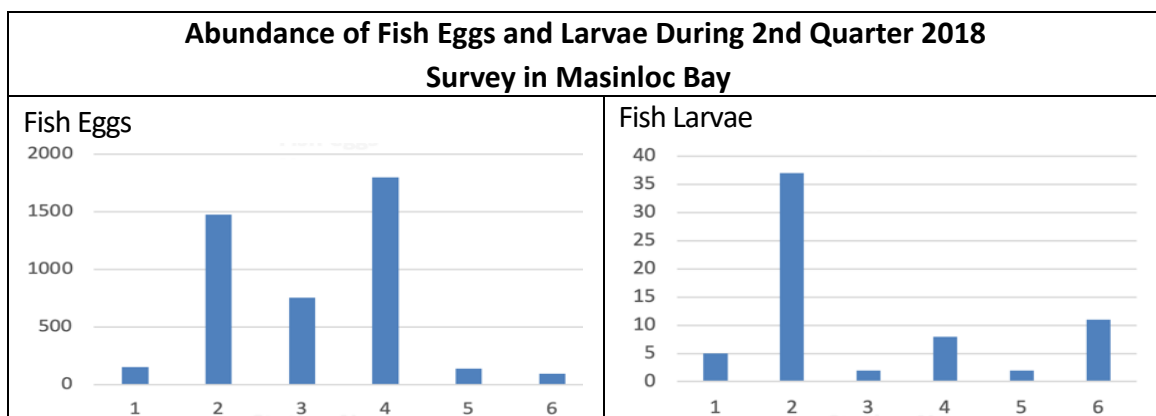
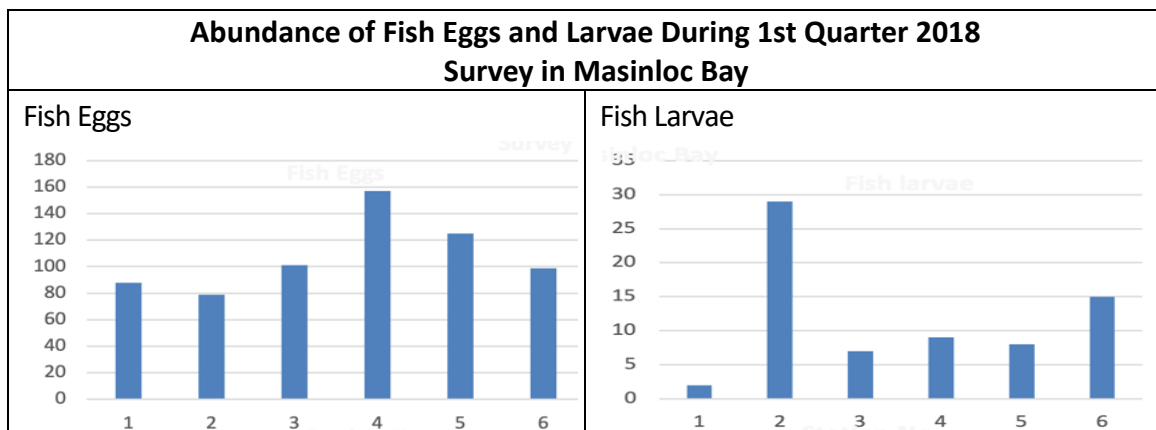
2. Methodology

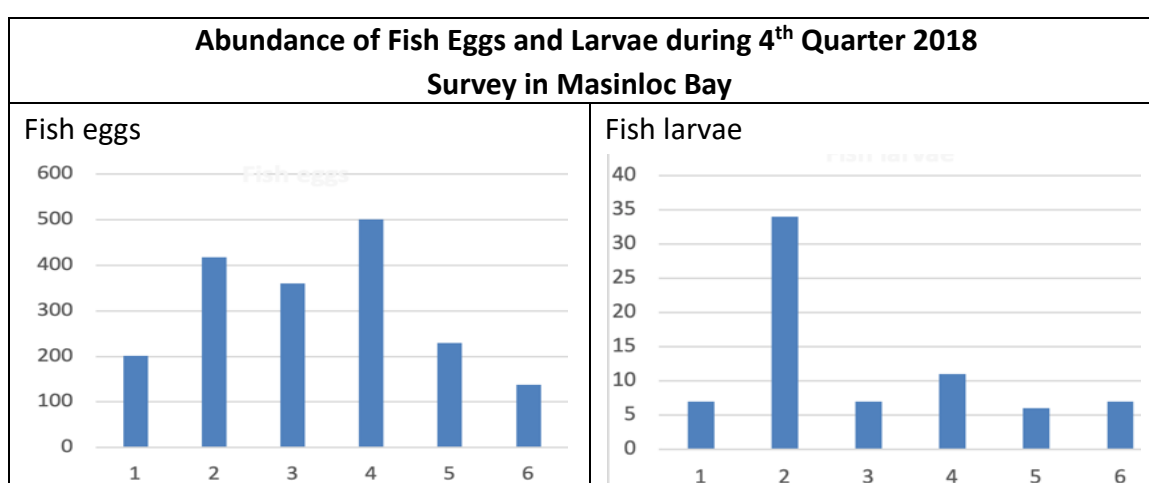
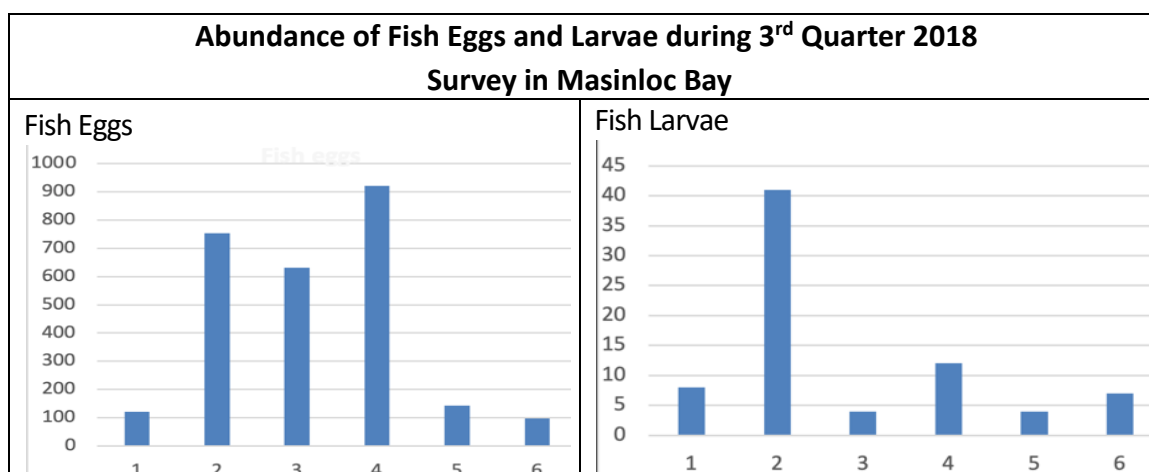
A quarterly monitoring/survey of fish eggs and larvae in Masinloc bay was conducted in 2018. The samples were collected by horizontal towing of a bongo net for 10 minutes with a 0.5m diameter, 1.5 meters length, 350µm mesh size, and a flowmeter centrally attached to the center of the net.

3. Results

The concentration of planktonic fish eggs collected in the coastal water of Masinloc bay during four surveys in 2018 was observed in station 4. A high abundance of planktonic fish eggs was observed in station 4, followed by station 2. A low quantity of fish eggs was recorded in stations 1, 5, and 6, respectively. Fish eggs abundance ranged from 79 ind. to 1,799 ind. during the 2018 survey.

The fish larval collected in Masinloc bay throughout the study period in 2018 consisted of 32 families. The most dominant fish larval families were Acanthuridae, Carangidae, Siganidae, Belonidae, and Clupeidae. The concentration of fish larvae in Masinloc bay was observed in station 2, followed by stations 4 and 6 during the four sampling period of 2018. A low abundance of fish larvae was recorded in stations 1, 3, and 5. In total, 283 larval fishes were collected from 6 stations in 2018.





Distributions of Fish Larvae by quarterly and families in Masinloc Bay 2018.

Masinloc Bay, Zambales	Q1-18	Q2-18	Q3-18	Q4-18	Total
Family Larvae					
<i>Acanthuridae</i>	4	10	20	8	42
<i>Balistidae</i>	1	1	1	1	4
<i>Belonidae</i>		7	13	2	22
<i>Caesionidae</i>	2	4		2	8
<i>Carangidae</i>	3	7	7	9	26
<i>Chaetontidae</i>	1	1		1	3
<i>Clupeidae</i>	11	2	2	2	17
<i>Coryphaenidae</i>	1				1
<i>Engraulidae</i>	3	4	3		10
<i>Exocoetidae</i>	2		1		3
<i>Holocentridae</i>		1		1	2
<i>Labridae</i>	2				2
<i>Latidae</i>					

<i>Leiognathidae</i>	6			7	13
<i>Lethrinidae</i>		2		1	3
<i>Lutjanidae</i>	8	1	1	1	11
<i>Mugilidae</i>					
<i>Mullidae</i>	3				3
<i>Nemipteridae</i>	2	4		2	8
<i>Priacanthidae</i>	2				2
<i>Scaridae</i>	2	1	2	6	11
<i>Scathopahgidae</i>				3	3
<i>Sciaenidae</i>					
<i>Scombridae</i>	2	2	3	6	13
<i>Serranidae</i>	3	1	2	1	7
<i>Siganidae</i>	6	8	13	10	37
<i>Sillaginidae</i>	2				2
<i>Sphyraenidae</i>			2		2
<i>Syngnathidae</i>		2			2
<i>Terapontidae</i>					
<i>Tetraodontidae</i>					
<i>Trichiuridae</i>	4	4	3	2	13
<i>Unidentified</i>		3	3	7	13
Total	70	65	76	72	283

Annex 1

Processing fish larvae samples collected in Masinloc Bay, Zambales, during four sampling periods in the year 2018.

