





### SAVING THE BERRIED BLUE SWIMMING CRAB (Portunus pelagicus) in the Municipality of Bantayan

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### WHY Blue Swimming Crab?



### WHY Blue Swimming Crab? 25% P5 7R High Demand = Profit = Overexploitation = Stock Loss Philippines (2021)

Source: Fisheries Statistics of the Philippines, 2017-2019; PSA, 2021; Major sources of swimmer crab into the United States in 2011



### GOALS







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### **Thai-style Hatchery**

- Adapted from Thailand
- First piloted in BFAR-MSH Sinandigan Bohol on 2018
- Low-cost compared to conventional hatchery

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Hatching Tanks

### HATCHERY PROCEDURE



Collect berried crabs



Gently brush the abdomen/apron



Collect using 80µ mesh net



Aerate with

filtered SW



Release in the night



### Data Collection

• Municipality of Bantayan, Bantayan, Island, Cebu















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### **Crablet Abundanc**





# **Crablet Abundance**



## Zoea/Megalop Abundanc



### • 1km/6mins towing

Night • sampling

Image © 2021 CNES / Airbus











## Zoea/Megalop Abundanc





### ANALYSIS OF ABUNDANCE







### Zoea Abundance (ind/L)







Megalopa Abundance (ind/L)







InstarAbundance (*ind/L*)











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Catch Per Unit Effort (kg/day)



**(i**).

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Data	Comparison between Sites (C vs E)	P-value
Instar ( <i>ind/L</i> )	Baseline Months	0.118
	Dispersal Months	<mark>0.000*</mark>
	Overall	<mark>0.000*</mark>
Zoea ( <i>ind/</i> L)	Baseline Months	0.806
	Dispersal Months	0.874
	Overall	0.733
Megalopa ( <i>ind/L</i> )	Baseline Months	<mark>0.010*</mark>
	Dispersal Months	0.680
	Overall	<mark>0.039*</mark>





**(i**).

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Data	Comparison Baseline vs Dispersal Months	P-value
Instar	Control Site	<mark>0.528*</mark>
	Experimental Site	<mark>0.000*</mark>
Zoea	Control Site	0.139
	Experimental Site	0.103
Megalopa	Control Site	0.716
	Experimental Site	<mark>0.003*</mark>
CPUE (ANOVA)	Before and During Hatchery	0.164



### **CONCLUSION/RECOMMENDATION**

- Stock enhancement project is a good aid for population loss
- Hatchery is a supplemental strategy when resource management and governance are being strengthened.
- HIGH AWARENESS of the coastal communities and STRONG policy implementation of the LGU is the BEST FORMULA for sustainable fisheries resources and industry.



### MEMBERS & PARTNERS

