EVALUATION OF ARTIFICIAL REEFS IN PHANG NGA BAY

BY Suchait Sangchan

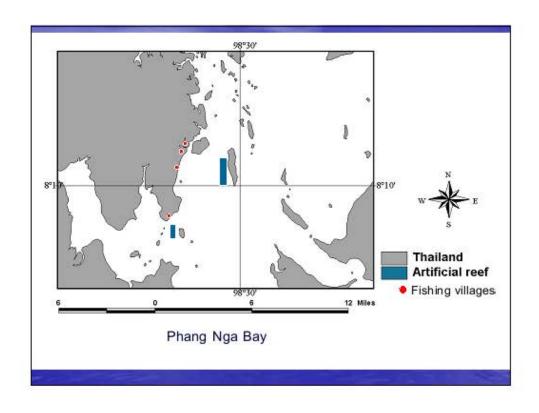
Andaman Sea Fisheries Research and Development Center (Phuket)

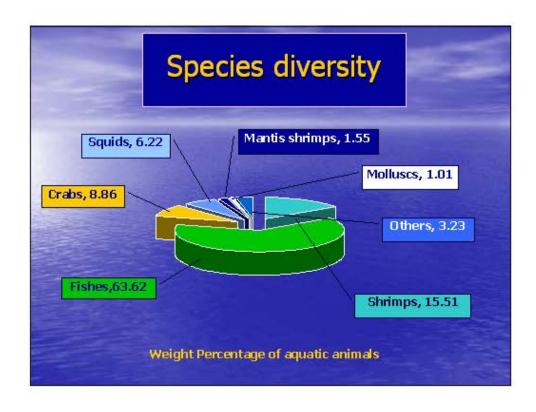
Objectives

- To Study on species diversity in Artificial Reefs area, of the Phang nga Bay
- To study on fisheries status in Artificial Reefs area.

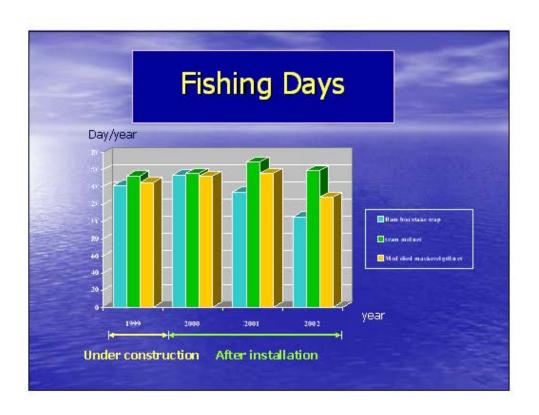
Methodology

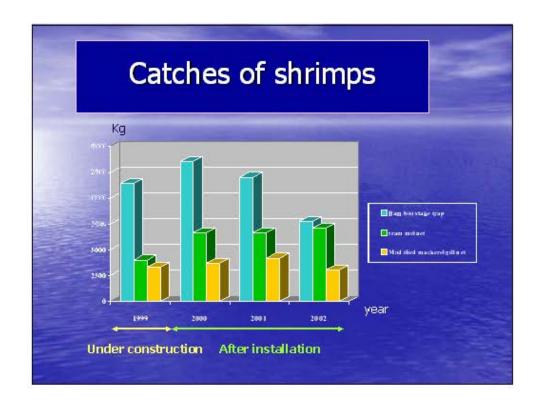
- Species diversity
 - Collected by 20 trips of Trammel net
- Fisheries status.
 - Collected from 3 main small scale fishing gears, Bamboo stake trap, Trammel net, Modified mackerel gill net.
 - Interview on fisheries situation
- Duration of Data collecting
 - January 1999-December 2002

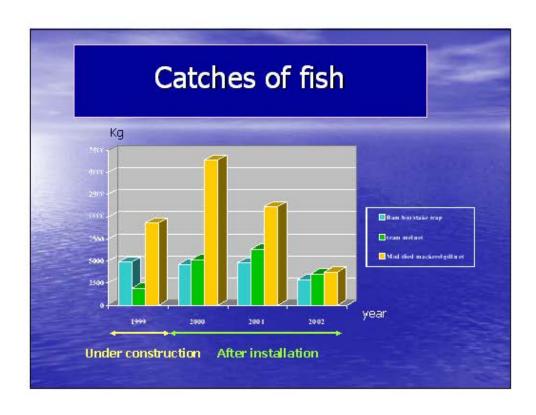


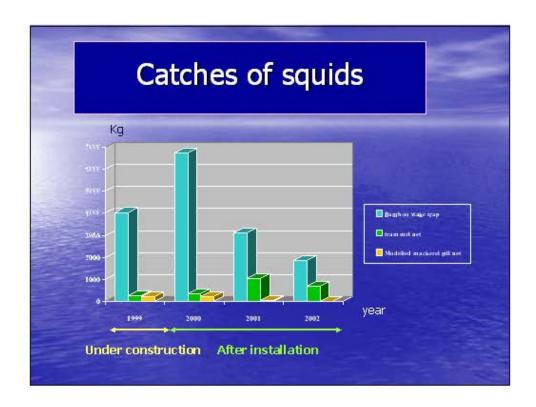


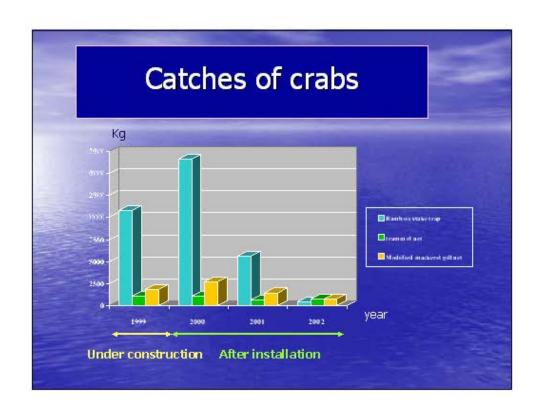


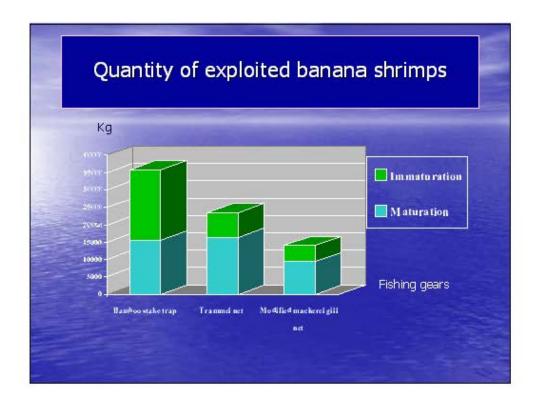


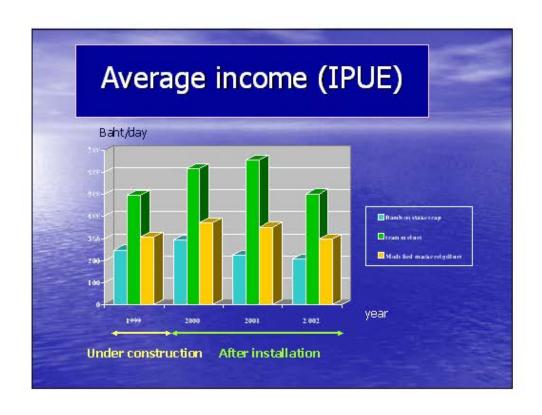












Aquatic animal value and return on investment

	Under construction 1999	After installation		
		2000	2001	2002
Cost	4,973,700			
Lost of investment	3.75%	3.75%		
Total cost	5,160,214	5,353,722		
Value of exploited	3,901,317	7,266,755	6,284,402	4,082,653
Additional value compare with installation year		3,365,438	2,383,085	181,336
Accumulation to fishing community	9.0	3,365,438	5,748,523	5,929,859
Benificial		-1,608,262	774,823	956,159
Return on investment period	,		22	

Conclusion

- Found 93 species of marine animals in ARs area of Phang Nga Bay.
- After installation about 2 year, fishing effort increase (fishing gears and fishing days). After that decrease trend.
- After installation about 2 year, Catches of aquatic animals and income increase. After that trend decrease but higher than under construction.