CONTENT

	Page
Content	vi
List of tables	vii
List of illustrations	
1. Introduction	1
Review of literature	5
Objective	14
2. Methodology	15
3. Result	24
4. Discussion	40
References	48
Appendix	62
Vitae	64

LIST OF TABLES

Table		Page
1.	List of algal species and their abundance in each experiment	
	between dry and rainy seasons. Ch: Chlorophyta; Ph: Phaeophyta;	
	Rh: Rhodophyta. C: Common occurrence more than 10% in percent	
	cover at least 1 sample; R: Rare occurrence less than 10%; -: No	
	occurrence.	30
2.	Effects of herbivory and season of clearing on recolonization of total	
	algae in each season.	31
3.	Effects of herbivory and season of clearing on recolonization of	
	4 dominant algae, Cladophora prolifera, Ulva paradoxa,	
	Dictyerpa stage of Padina and Polysiphonia sphaerocarpa.	32
4.	Effects of different shore levels and two seasons on sediment.	38

LIST OF ILLUSTRATIONS

Illustr	ration I	Page
1.	Map of sampling site at Koh Pling, Phuket Province, Thailand.	16
2.	Homogeneity substrate at the intertidal shore	17
3.	Many herbivorous fishes are at the study site when the tide comes in	17
4.	Flow chart of the experimental design	21
5.	Cage was used to exclude herbivores.	22
6.	The percent cover of algal species in unmanipulated plots without cage	
	for 18 months. Data shown are from plots in the dry season (January 2004)).
	data are mean \pm SE of 5 replicates.	25
7.	Percent cover of algal species in unmanipulated plots without cage	
	for 12 months. Data shown are from plots in the rainy season (July 2004).	
	Data are the mean \pm SE of 5 replicates.	25
8.	Temporal patterns of species diversity of A) Dry and B) Rainy season	27
9.	Ulva paradoxa was a dominant species in a manipulated plot and it	
	colonized rapidly in this plot.	28
10.	Cover of abundant algae in manipulated plots without cage for	
	18 months. Data shown are from plots cleared in the dry season	
	(January 2004). Data are mean \pm SE of 5 replicates.	29

LIST OF ILLUSTRATIONS (CONTINUED)

Illustr	ration P	Page
11.	The cover of abundant algae in manipulated plots without caged for	
	12 months. Data shown are from plots cleared in the rainy season	
	(July 2004). Data are mean \pm SE of 5 replicates.	29
12.	Seasonal changes of alga percent cover, Cladophora prolifera, Ulva	
	paradoxa, Dictyerpa stage of Padina and Polysiphonia sphaerocarpa	
	in 20×20 cm of clearing. Data shown are from dry season (January 2004)	
	plots. Data are the mean \pm SE of 5 replicates for each experiment.	
	Comparisons between cages were made using independent <i>t</i> -test:	
	* 0.05\geq p > 0.01; ** 0.01\geq p > 0.001; *** p < 0.001.	33
13.	Seasonal changes of algal percent cover, Cladophora prolifera, Ulva	
	paradoxa, Dictyerpa stage of Padina and Polysiphonia sphaerocarpa	
	in 20×20 cm of clearing. Data shown are from rainy season (July 2004)	
	plots. Data are the mean \pm SE of 5 replicates for each experiment.	
	Comparisons between cages were made using independent <i>t</i> -test:	
	* 0.05\ge p > 0.01; ** 0.01\ge p > 0.001; *** p < 0.001.	34
14.	Effects of clearing time on total algae and two dominant species, Ulva	
	paradoxa and Polysiphonia sphaerocarpa, in manipulated plots without ca	ige.
	Comparisons between clearing time were made using	
	independent <i>t</i> -test: * $0.05 \ge p > 0.01$; ** $0.01 \ge p > 0.001$; *** $p < 0.001$.	35

LIST OF ILLUSTRATIONS (CONTINUED)

Illustration		Page
15.	Effects of clearing time on total algae and two dominant species, Ulva	
	paradoxa and Polysiphonia sphaerocarpa in manipulated plots with cag	e.
	Comparisons between clearing time were made using	
	independent t-test: * $0.05 \ge p > 0.01$; ** $0.01 \ge p > 0.001$; *** $p < 0.001$.	37
16.	Total amount of sediment were trapped during the experiment.	39