Contents

	Page
Abstract	iii
Acknowledgement	vi
Contents	vii
List of Table	ix
List of Figures	х
Chapter	
1 Introduction	
1.1 Background	1
1.2 Objectives	3
1.3 Research Hypothesis	4
1.4 Definition of Terms	4
1.5 Review of Literature	6
1.6 Contents of Thesis	7
2 Methodology	
2.1 Management of Data	8
2.2 Methods used for the Quantitative Analysis	9
2.3 Methods for Creating Geographical Maps	12
3 Preliminary Data Analysis	
3.1 Descriptions of the terrorist event occurrences	13
3.2 Map Comparison	16
4 Statistical Modeling	
4.1 Statistical Modeling	21

5 Conclusions and Discussion

5.1 Conclusion	26
5.2 Discussion	28
5.3 Limitations and Further Research	30
References	31
Appendix	33
Vitae	52

List of Tables

	Table	Page
1.1	Classification of events by severity	5
3.1	Classification of events by severity in each year	13
3.2	Event incidence by month for each year	15
3.3	Events by hour of day reported	15
	(1 = 12-1 etc; time unavailable for 151 events)	
3.4	Events by day of week reported	16
3.5	Distributions of event rates in 2004 and 2005	18
4.1	District effects and standard errors based on negative	
	binomial generalized linear model (Four district of Songkla	
	taken as baseline level)	24
4.2	Period effects and standard errors based on negative binomial	
	generalized linear model (Jan-Feb 2004 taken as baseline level)	25

i

List of Figures

Figure	Page
3.1: Minimum and maximum numbers of events by week	14
3.2: Grid map for overall event rates per 1000 population in	
subdistricts in 2004 (left panel) and 2005 (right panel),	
with major roads and towns shown	17
3.3: Grid maps for event rates based on subdistricts for	
2004-2005 (left panel) and for the increase from	
2004 to 2005 (right panel)	18
4.1: Results from fitting negative binomial model to event rates in	
districts in 2- month periods (* Zero counts are replaced	
by 0.5 to avoid logarithms of 0)	23