

TABLE OF CONTENTS

APPROVAL SHEET	ii
DECLARATION PAGE.....	iii
FOREWORD	iv
TABLE OF CONTENTS.....	v
LIST OF TABLES	vii
TABLE OF FIGURES	viii
LIST OF APPENDICES	ix
ABSTRACT.....	x
INTISARI	xi
CHAPTER I. RESEARCH BACKGROUND	1
1.1. Problem Formulation	1
1.2. Research Objectives	3
1.3. Expected Benefits	4
CHAPTER II. REVIEW OF RELATED LITERATURE	5
2.1. Ecosystem Disturbance	5
2.2. Forest Fire	6
2.3. Sebangau National Park	7
2.4. Herpetofauna	8
CHAPTER III. RESEARCH METHODOLOGY	10
3.1. Research site and time	10
3.2. Research material	11
3.3. Research tools	11
3.4. Research design	11
3.5. Research path	12
3.5.1. Determination of the research area	12
3.5.2. Herpetofauna survey method	13
3.5.3. Measurement of habitat characteristics method.....	13
3.6. Result analysis	16
3.6.1. Herpetofauna community response.....	16
3.6.2. Habitat characteristics	17

3.6.3. Environmental parameters influencing the herpetofauna response to fire.....	18
CHAPTER IV. RESULTS	19
4.1. Herpetofauna community response.....	19
4.1.1. Community composition.....	19
4.1.2. Habitat guilds	22
4.1.3. Vertical distribution	23
4.1.4. Diel call activity	23
4.2. Habitat characteristics	25
4.3. Environmental parameters influencing the herpetofauna response to fire	27
CHAPTER V. DISCUSSION	29
5.1. Herpetofauna community response.....	29
5.1.1. Numerical response.....	29
5.1.2. Functional response	33
5.2. Environmental parameters influencing the herpetofauna response to fire	36
5.3. Recommendations for tropical peatland management	39
CHAPTER VI. CONCLUSION	41
REFERENCES	42