

TABLE OF CONTENTS

1. INTRODUCTION	1
1.1 Aim of thesis	3
1.2 Cliff ecology, diversity and species composition	4
<i>1.2.1 What is a cliff?</i>	4
<i>1.2.2 Characteristics of cliff vegetation</i>	4
<i>1.2.3 Environment and microclimate in cliffs</i>	8
<i>1.2.4 Diversity patterns, dispersal and connectivity</i>	11
<i>1.2.5 Effects of dispersal ability and connectivity on bryophyte communities</i>	12
<i>1.2.6 Disturbance on cliff ecosystems from rock climbing</i>	13
1.3. Facilitation and nurse-plants	13
2. MATERIAL AND METHODS	14
2.1 Study sites	14
2.2 Field sampling	17
2.3 Estimation of environmental variables	20
3. RESULTS AND DISCUSSION	22
3.1 Paper I	22
3.2 Paper II	24
3.3 Paper III	26
3.4 Paper IV	28
3.5 Patterns of bryophyte distribution in Papers I ,II and III	30
4. CONCLUSIONS	34
5. ACKNOWLEDGEMENTS	36
6. REFERENCES	37

