

Contents	3
Foreword	5
Classification	6
Glossary	7
Growth forms of freshwater red algae	9
Ecology	9
Growth habitats	10
Physical factors	12
Current velocity.....	12
Light.....	14
Temperature	15
Water chemistry	15
Taxa indicating trophic level – oligotrophy vs. eutrophy	18
Taxa indicating saprobity of waters	19
Factors threatening freshwater red algae	20
Freshwater red algae in Finland, Sweden, Poland and Austria	22
Freshwater Rhodophyta	25
Key to genera of freshwater red algae	25
Bangiophyceae	25
Florideophyceae	29
Key to species [mainly those found in Finland]	33
<i>Audouinella</i>	33
<i>Batrachospermum</i>	34
<i>Sirodotia</i>	44
<i>Tuomeya</i>	45
<i>Lemanea</i>	46
<i>Paralemanea</i>	46
<i>Thorea</i>	48
<i>Hildenbrandia</i>	49
Descriptions of the Finnish freshwater red algae	50
Studies on freshwater red algae in Finland	50
Sampling and preservation	51
<i>Porphyridium purpureum</i>	52
<i>Bangia atropurpurea</i>	53
<i>Bangia fuscopurpurea</i>	54
<i>Audouinella hermannii</i>	55
<i>Audouinella chalybea</i>	57
<i>Audouinella pygmaea</i>	58
<i>Batrachospermum</i>	60
<i>Batrachospermum keratophytum</i>	61
<i>Batrachospermum turfosum</i>	62
<i>Batrachospermum helminthosum</i>	64
<i>Batrachospermum virgato-decaisneanum</i>	66

<i>Batrachospermum globosporum</i>	67
<i>Batrachospermum atrum</i>	68
<i>Batrachospermum gelatinosum</i>	70
<i>Batrachospermum skujae</i>	72
<i>Batrachospermum confusum</i>	74
<i>Batrachospermum arcuatum</i>	76
<i>Batrachospermum anatinum</i>	77
<i>Batrachospermum boryanum</i>	78
<i>Sirodotia suecica</i>	80
<i>Sirodotia tenuissima</i>	82
<i>Tuomeya americana</i>	84
<i>Lemanea fluviatilis</i>	85
<i>Lemanea rigida</i>	86
<i>Lemanea mamillosa</i>	88
<i>Lemanea fucina</i>	89
<i>Lemanea borealis</i>	90
<i>Lemanea condensata</i>	91
<i>Paralemanea annulata</i>	93
<i>Paralemanea catenata</i>	93
<i>Paralemanea torulosa</i>	94
<i>Thorea hispida</i>	94
<i>Hildenbrandia rivularis</i>	95
<i>Literature on taxonomy and ecology of freshwater Rhodophyta</i>	96
<i>Index of taxa</i>	103