

Contents

Introduction.....	V
Studied Austrian dinoflagellate cyst localities	1
Methods	15
Morphology and terminology of dinoflagellate cysts.....	16
Acknowledgements	21
References.....	22
Systematic part.....	37
Division Dinoflagellata	37
Class Dinophyceae.....	37
Subclass Peridiniphycidae	37
Order Gonyaulales	37
Suborder Gonyaulacineae.....	37
Family Gonyaulacaceae.....	37
Subfamily Cribroperidinioideae.....	37
Subfamily Gonyaulacoideae	50
Subfamily Leptodinioideae.....	69
Gonyaulacaceae uncertain.....	71
Family Areoligeraceae.....	76
Suborder Goniodomineae.....	83
Family Goniodomaceae	83
Subfamily Goniodomoidea.....	83
Subfamily Helgolandinioideae.....	84
Subfamily Pyrodinioideae.....	84
Gonyaulacineae uncertain.....	87
Order Peridiniales.....	95
Suborder Peridiniineae	95
Family Peridiniaceae	95
Subfamily Deflandreoideae	95
Subfamily Ovoidinioideae.....	98
Subfamily Wetzelielloideae	98
Family Protoperidiniaceae	101
Subfamily Protoperidinioideae.....	101
Plates.....	111
Glossary of selected morphological terms	248
Taxonomic Index.....	250