

CONTENT

Preface.....	5
Introduction.....	6
Generally.....	7
Identification	7
Conservation and preservation of material	7
Separation of additional matter	7
Decalcification.....	8
Cleaning of material from organic components.....	8
Cleaning with hydrogen peroxide	8
Separation of valves	9
Treatment of fossil material	9
Making permanent slides	9
Measuring.....	9
Taking LM micrographs.....	9
Amended classification	11
Explanation of terms	12
Key to genera	15
Species and genera descriptions.....	16
1. <i>Melosira</i> C. A. AGARDH 1824 (nom. cons.).....	16
2. <i>Ferocia</i> VAN DE VIJVER & HOUK in Van de Vijver <i>et al.</i> 2017	23
3. <i>Angusticopula</i> gen. nov.	24
4. <i>Ellerbeckia</i> R. M. CRAWFORD 1988	28
5. <i>Orthoseira</i> THWAITES 1848	30
6. <i>Brevisira</i> KRAMMER 2001	34
7. <i>Pseudoaulacosira</i> G. LUPIKINA & G. K. KHURSEVICH ex Usoltseva & Houk 2016.	35
8. <i>Aulacoseira</i> G. H. K. THWAITES 1848.....	36
9. <i>Alveolophora</i> Moiseeva & Nevretdinova 1990	74
Acknowledgements.....	76
List of cited taxa.....	77
References and recommended literature	80
Plates	91