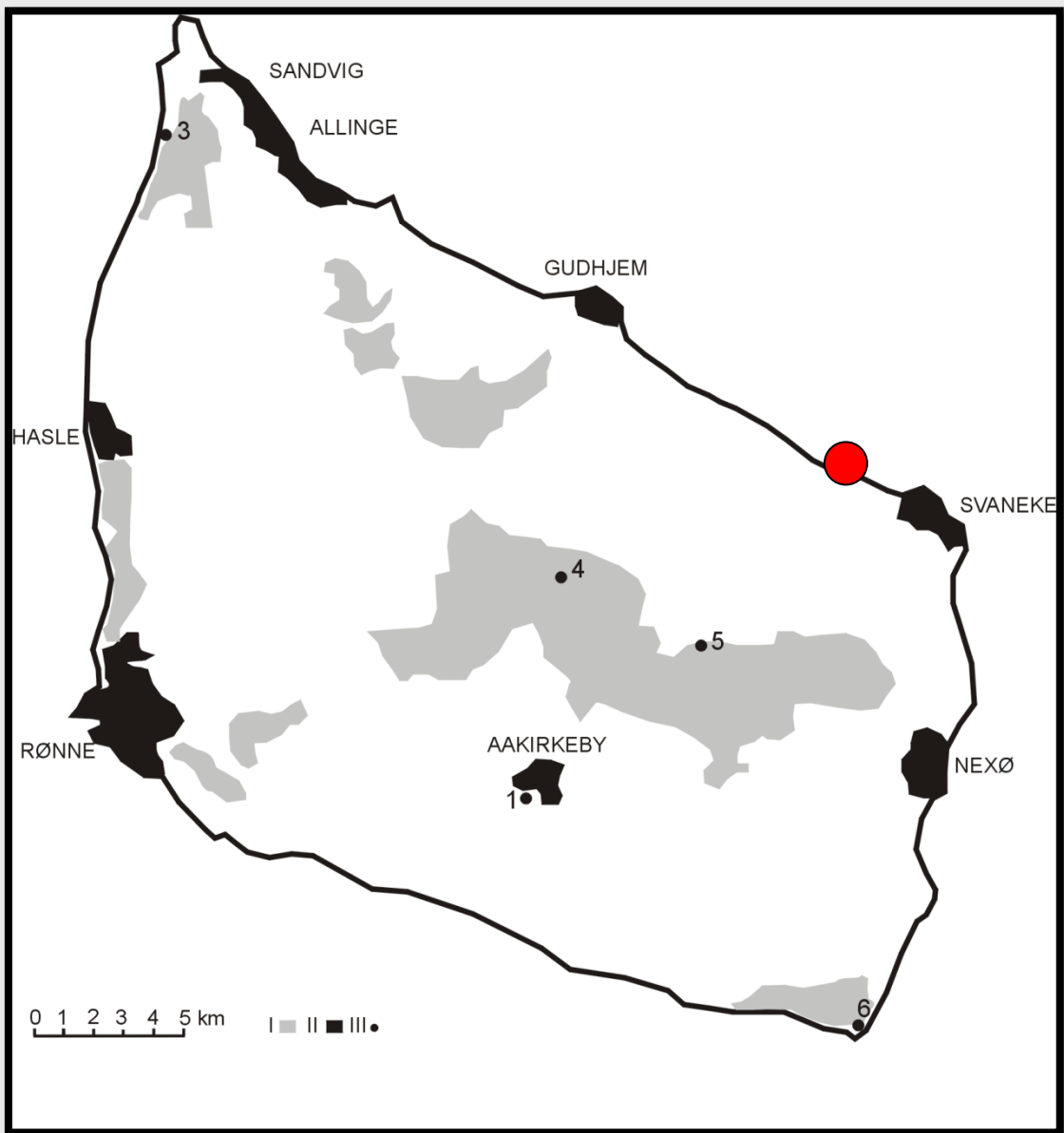


Species richness of cyanobacteria and eucaryotic algae in the sea- shore brine ponds

-a sea-shore brine ponds near the legendary obelisks (Bautasten)

Burchardt Lubomira, Kowalski Wojciech W. A., Banach Barbara, Czernaś Krzysztof, Dembowska Ewa, Gąbka Maciej, Jaworska Bożena, Komarzewska Katarzyna, Lamentowicz Łukasz, Luścińska Marta, Matuła Jan, Messyasz Beata, Owsianny M. Paweł , Pęczęła Wojciech, Poniewozik Małgorzata, Rakowska Barbara, Richter Dorota, Rybak Andrzej, Szczepocka Ewelina, Szczurowska Agnieszka and Wołowski Konrad



Communities of algae and cyanobacteria

The values of chemical parameters of water of the examined ecosystem

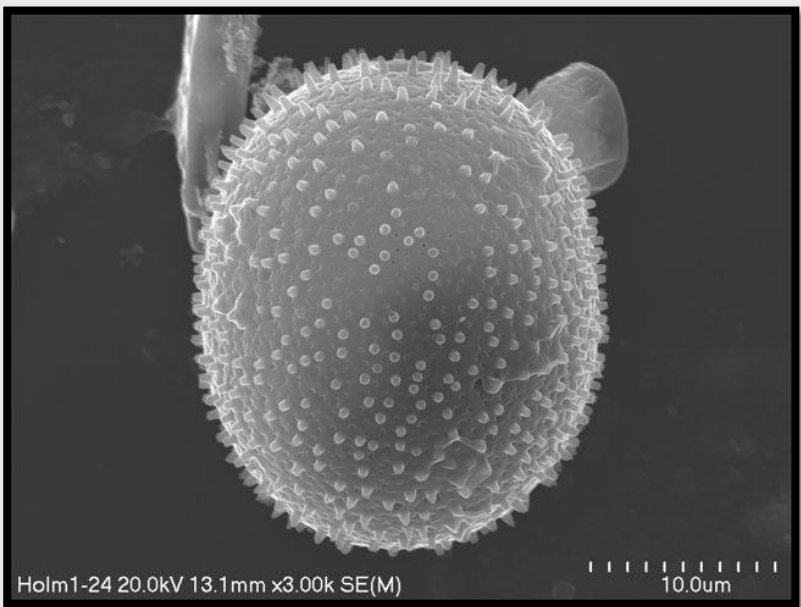
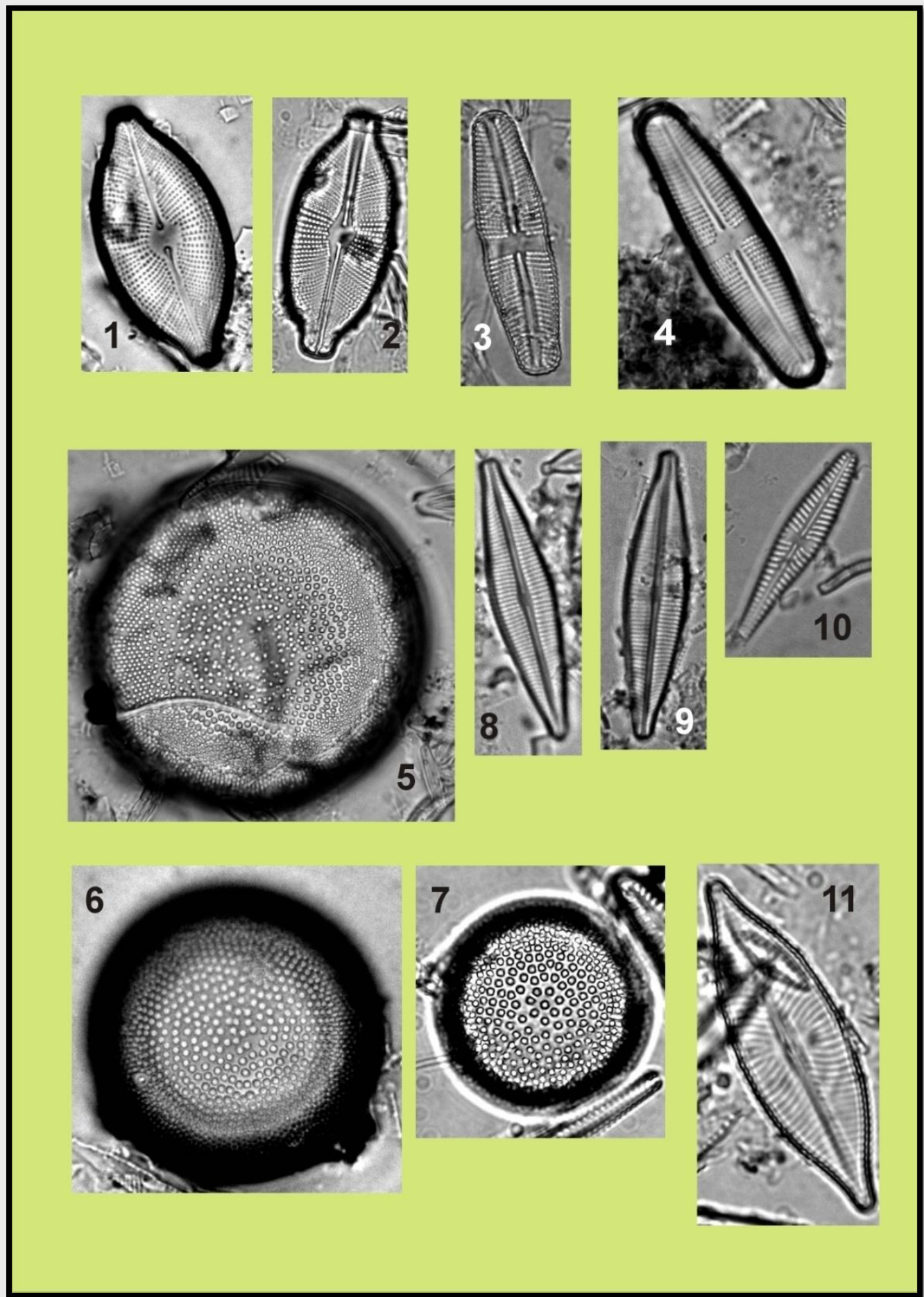
Średnia głębokość wody w płacie	Depth [m]	0,5
Widzialność	Secchi depth [m]	-
Chlorofil (a)	Chl-a [ug/l]	10,7
Barwa	Colour [mg Pt dm ⁻³]	59
pH	pH	6,8
Nasycenie tlenem	O ₂ [%]	-
Tlen rozpuszczony	O ₂ [mg/l]	-
Przewodnictwo elektrolit.	Conductivity [uS cm ⁻¹]	777
Azot amonowy	NH ₄ [mg/l]	0,37
Azot azotanowy	NO ₃ [mg/l]	1,000
Fosfor reaktywny	PO ₄ [mg/l]	0,060
temperatura	Temp. [°C]	13,2
Siarczany	SO ₄ [mg/l]	98
Chlorki	Cl [mg/l]	742

Number of taxa	Number of algae groups represented by the most numerous taxa	Number of the most numerous taxa
170	3	40

Cyanophyceae	1
Bacillariophyceae	18
Chrysophyceae	-
Euglenophyceae	-
Chlorophyta	21

The most numerous taxa	Other numerous taxa	Accompanying taxa
<i>Achnanthes holsatica</i> Hustedt	<i>Craticula halophila</i> (Grunow) D. G. Mann	<i>Chroococcus minimus</i> (Keissler) Lemmerm.
<i>Achnanthes minutissima</i> (Kützinger) Gomont	<i>Geitlerinema amphibium</i> (Aghard, ex Gomont) Anagnostidis	<i>Komvophoron constrictum</i> (Szafer) Anagnostidis et Komárek
<i>Amphora veneta</i> Kützinger	<i>Navicula cryptotenella</i> Lange-Bertalot	<i>Pandorina morum</i> (O. F. Müll.) Bory
<i>Anomoeoneis vitrea</i> (Grunow) Ross	<i>Navicula veneta</i> Kützinger	
<i>Cocconeis scutellum</i> Ehrenberg	<i>Rhopalodia gibba</i> (Ehrenberg) O. Müller var. <i>gibba</i>	
<i>Cymbella helvetica</i> Kützinger		
<i>Encyonopsis microcephala</i> (Grunow) Krammer		

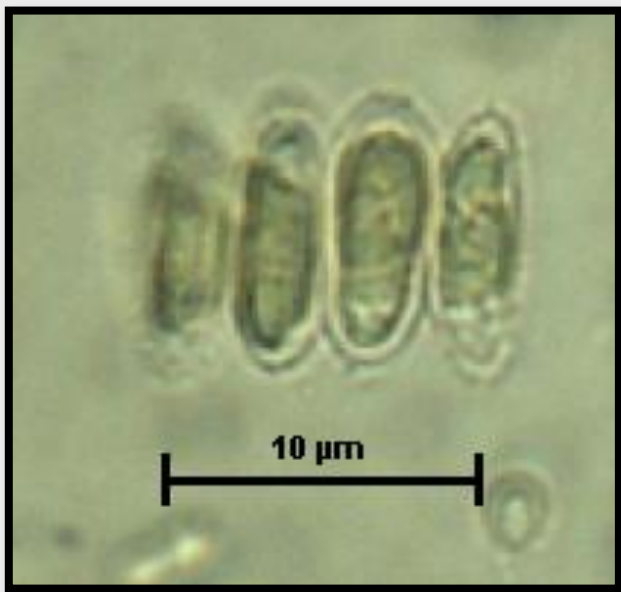
Species from the examined ecosystem



Trach.hispida var. hispida



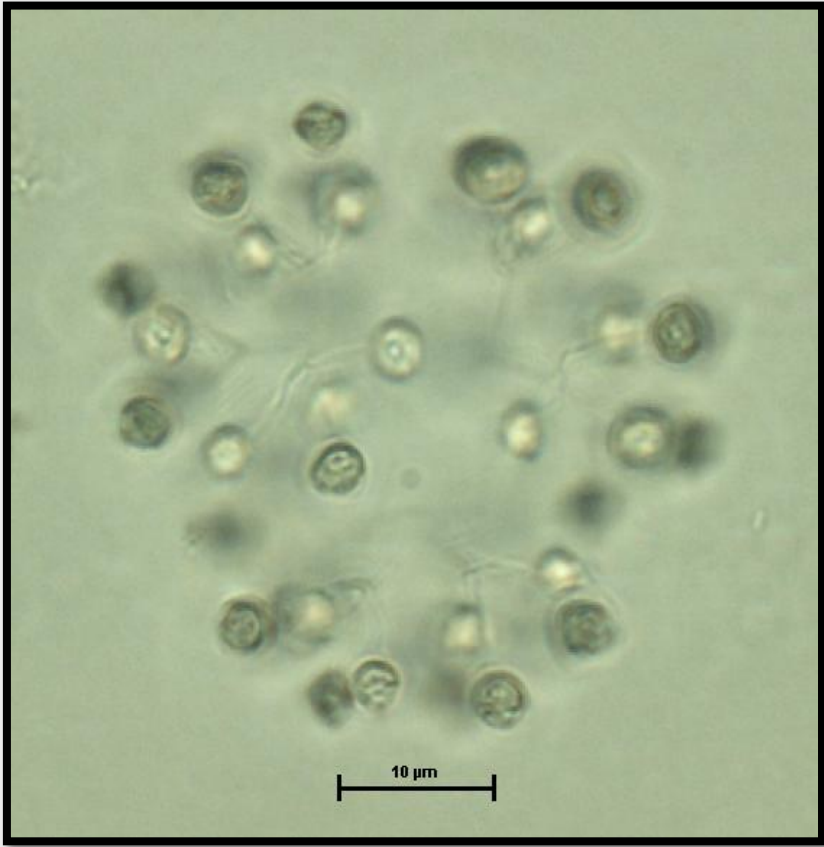
Chroococcus minutus



Scenedesmus aculeolatus



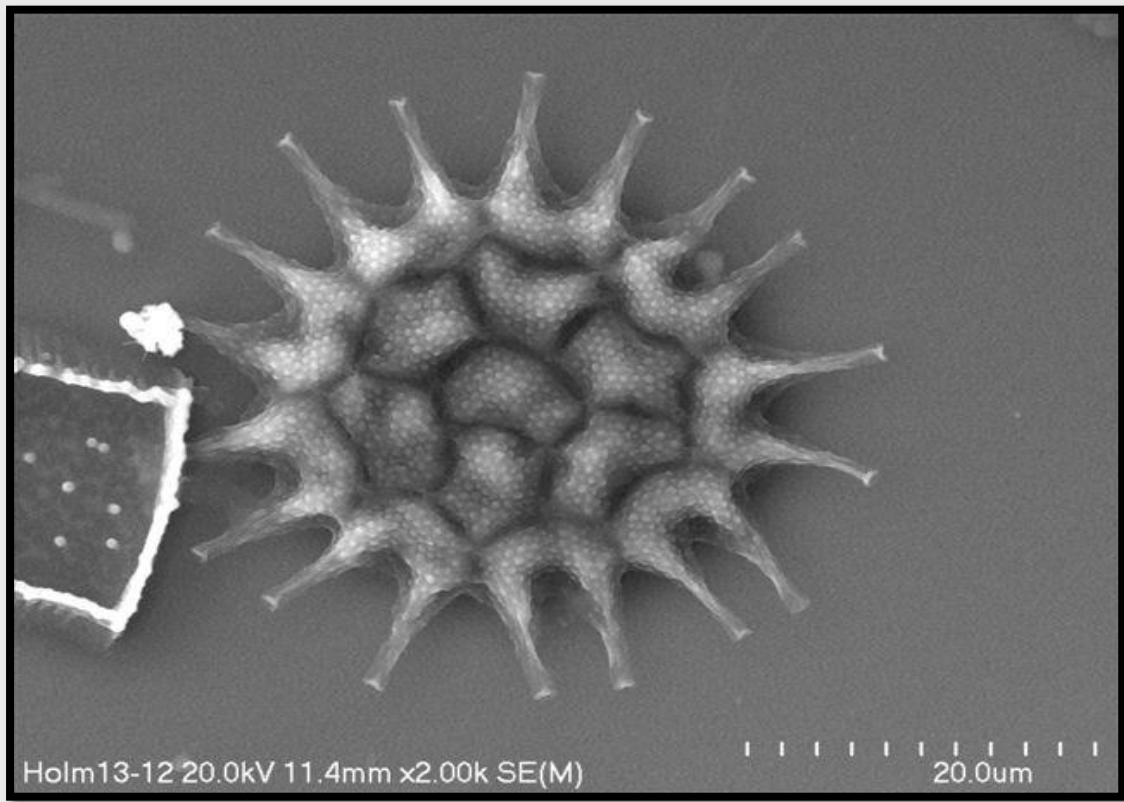
Microspora palustris



Dictyosphaerium ehrenbergianum



Merismopedia punctata



Pediatrum boryanum

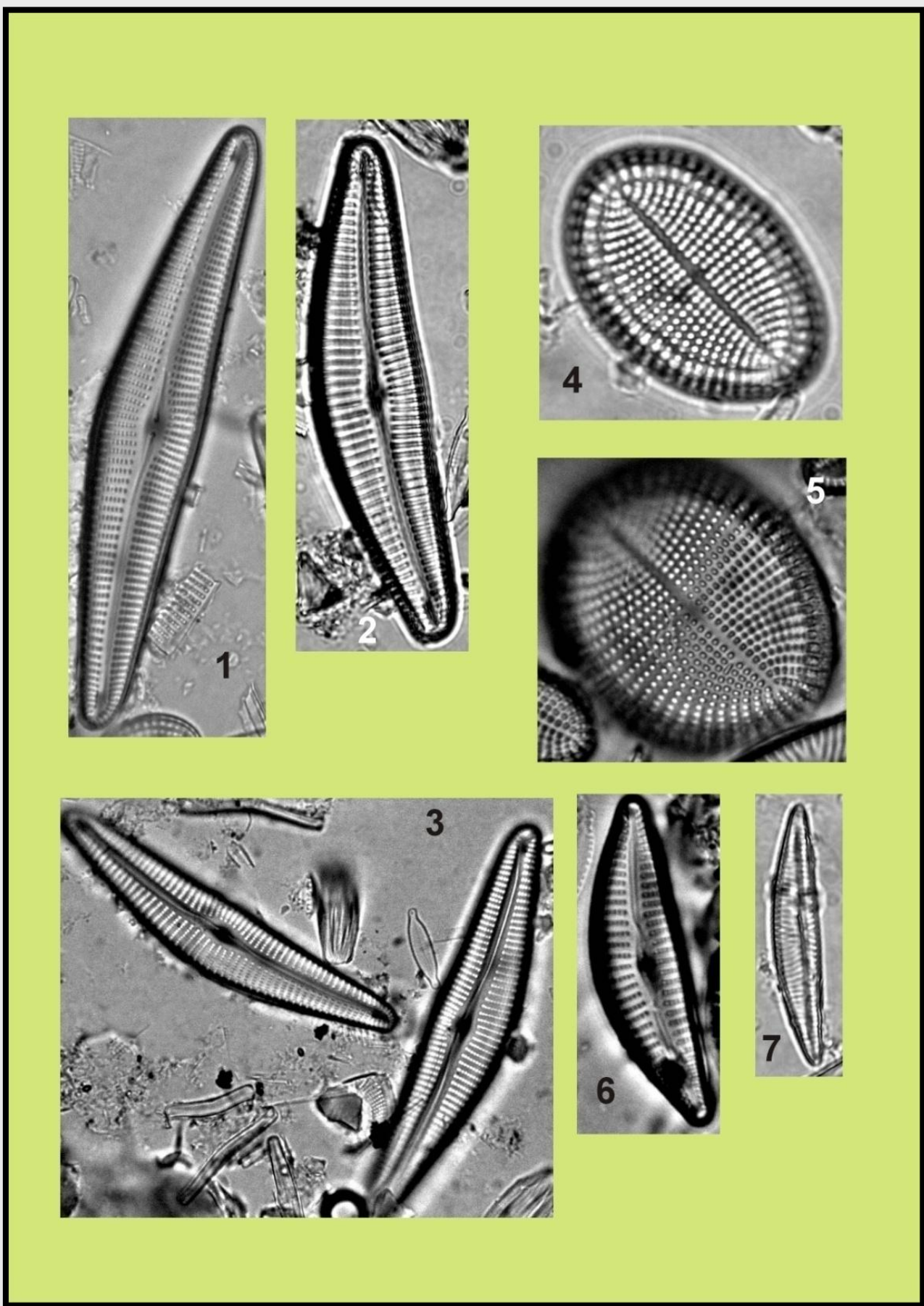


Fig. 1, 2, 3 Cymbella helvetica
Fig. 4, 5 Cocconeis scutellum
Fig. 6 Cymbella affinis
Fig. 7 Cymbella pusilla

Fig. 1, 2 Navicula pusilla
Fig. 3, 4 Achnanthes coarctata
Fig. 5, 6 Actinocyclus normanii
Fig. 7 Actinocyclus normanii Morphotyp subsalsus
Fig. 8, 9 Navicula halophila
Fig. 10 Gomphonema olivaceum var. salinum
Fig. 11 Navicula salinarum