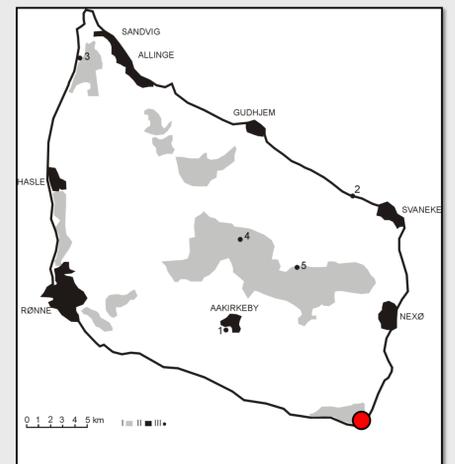


Species richness of cyanobacteria and eucaryotic algae in the deflated fields

-The deflated fields among sand-hills (Dueodde)

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, Owianny M. Paweł, Pęczęła Wojciech, Poniewozik Małgorzata, Rakowska Barbara, Richter Dorota, Rybak Andrzej, Szczepocka Ewelina, Szczurowska Agnieszka and Wołowski Konrad



The values of chemical parameters of water of the examined ecosystem

Średnia głębokość wody w płacie	Depth [m]	-
Widzialność	Secchi depth [m]	-
Chlorofil (a)	Chl-a [ug/l]	5,35
Barwa	Colour [mg Pt dm ⁻³]	32
pH	pH	-
Nasylenie tlenem	O ₂ [%]	-
Tlen rozpuszczony	O ₂ [mg/l]	-
Przewodnictwo elektrolit.	Conductivity [uS cm ⁻¹]	-
Azot amonowy	NH ₄ [mg/l]	0,26
Azot azotanowy	NO ₃ [mg/l]	0,200
Fosfor reaktywny	PO ₄ [mg/l]	0,040
temperatura	Temp. [°C]	-
Siarczany	SO ₄ [mg/l]	9
Chlorki	Cl [mg/l]	19

Communities of algae and cyanobacteria

Number of taxa	Number of algae groups represented by the most numerous taxa	Number of the most numerous taxa
127	5	58

<i>Cyanophyceae</i>	7
<i>Bacillariophyceae</i>	8
<i>Chrysophyceae</i>	2
<i>Euglenophyceae</i>	5
<i>Chlorophyta</i>	36

The most numerous taxa	Other numerous taxa	Accompanying taxa
<i>Eolimna minima</i> (Grunow) Lange-Bertalot	<i>Achnanthydium minutissimum</i> (Kützing) Czamecki	<i>Trachelomonas hispida</i> (Perty) F. Stein
<i>Eunotia bilunaris</i> (Ehrenberg) Mills var. <i>bilunaris</i>	<i>Enallax costatus</i> (Schm.) Pasch.	<i>Oocystella marssonii</i> (Lemmerm.) Hindák
<i>Frustulia rhomboides</i> var. <i>saxonica</i> (Rabenhorst) De Toni	<i>Euastrum bidentatum</i> Näg.	<i>Dictyosphaerium pulchellum</i> H.C. Wood
<i>Gomphonema parvulum</i> (Kützing) Kützing var. <i>parvulum</i>	<i>Euastrum bidentatum</i> Nägeli	<i>Petalomonas sphagnicola</i>
<i>Nitzschia acidoclinata</i> Lange-Bertalot	<i>Eunotia minor</i> (Kützing) Grunow	
<i>Nitzschia perminuta</i> (Grunow) M. Peragallo	<i>Nitzschia incognita</i> Krasske	
<i>Stauroneis anceps</i> Ehrenberg	<i>Nostoc paludosum</i> Kütz.	
<i>Scotiellopsis terrestris</i> (Reisigl) Punčoch	<i>Oedogonium</i> sp. div.	

Species from the examined ecosystem



Merismopedia glauca



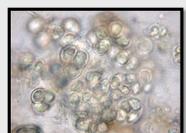
Anabaena inequalis



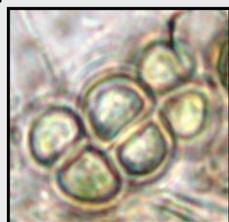
Nostoc paludosum



Gloeocapsa sp.



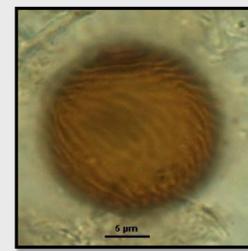
Gloeocapsa decorticans



Gloeocapsa granosa



Closterium cynthia



Trachelomonas rugulosa



Chlamydomonas sp.



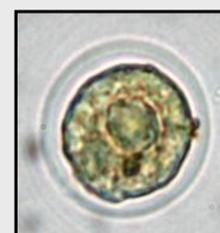
Microthamnion strictissimum f. *macrocystis*



Asterococcus superbus



Aphanochaete repens



Muriella cf. *spongiocloris*



Cosmoastrum brebissonii



Euastrum binale



Eutetramorus fottii



Enallax acutiformis



Coenochloris mucosa

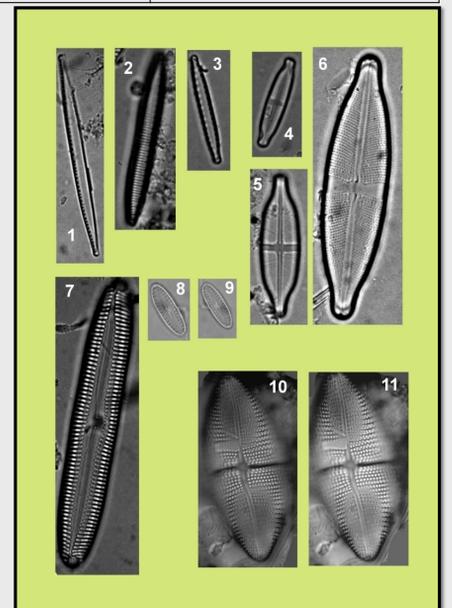


Fig. 1 *Nitzschia incognita*
 Fig. 2 *Nitzschia amphibia* f. *umbrosa*
 Fig. 3 *Nitzschia hantzschiana*
 Fig. 4 *Stauroneis kriegerii*
 Fig. 5 *Stauroneis producta*
 Fig. 6 *Stauroneis obtuse*
 Fig. 7 *Pinnularia gibba*
 Fig. 8, 9 *Navicula* sp. i *Pinnularia* sp.
 Fig. 10, 11 *Achnathes brevipes*