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Klimata mainības ietekme uz Daugavas zooplanktonu

Daugavpils Universitāte



Ideja



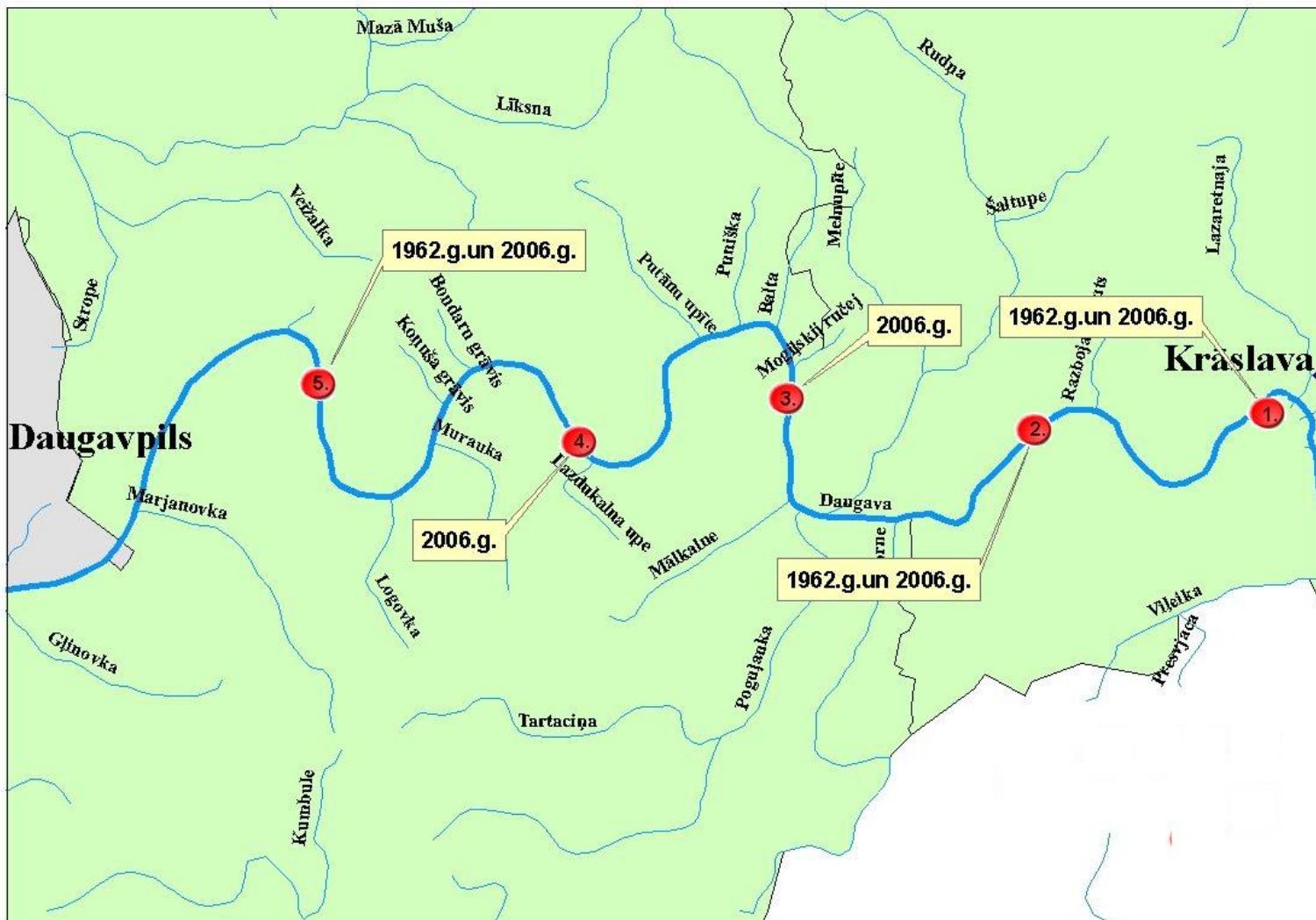
1962.g. Renātes Škutes
ekspedīcija

44 gadi

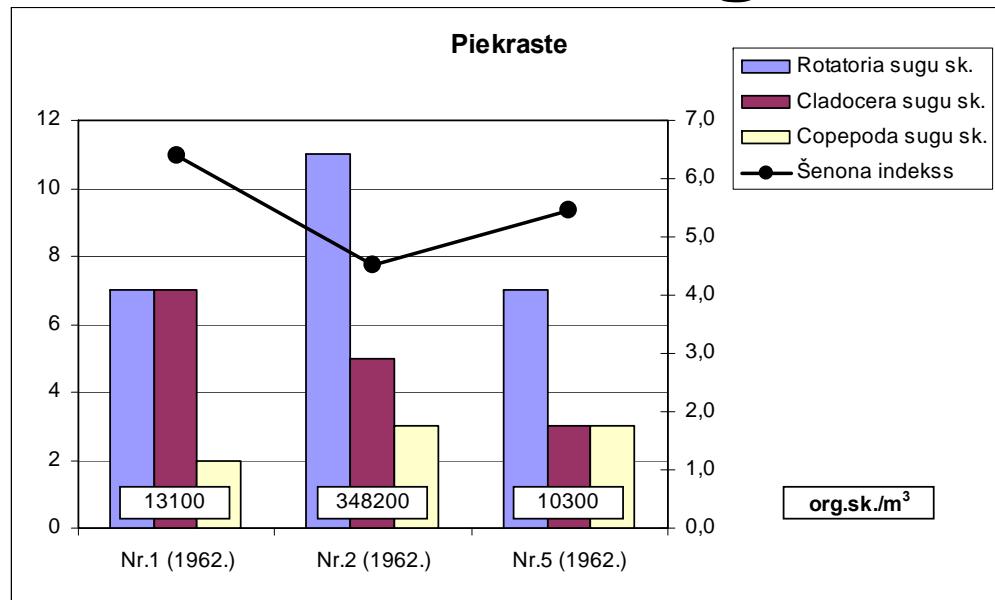
2006.g. Artūra Škutes
ekspedīcija



Materiāli un metodes

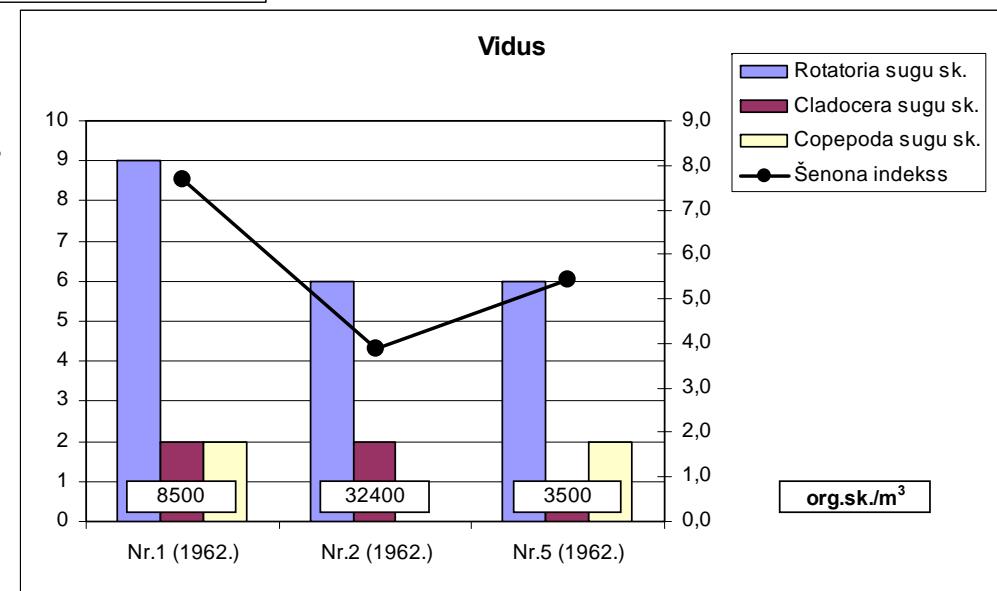


1962.gads

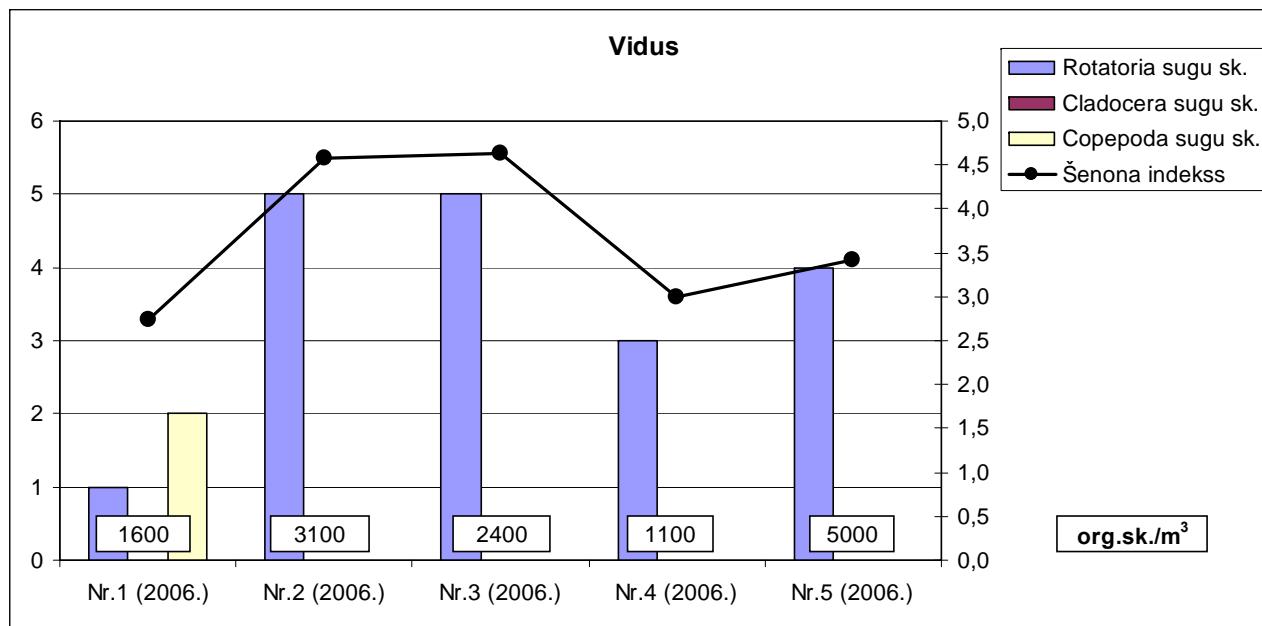
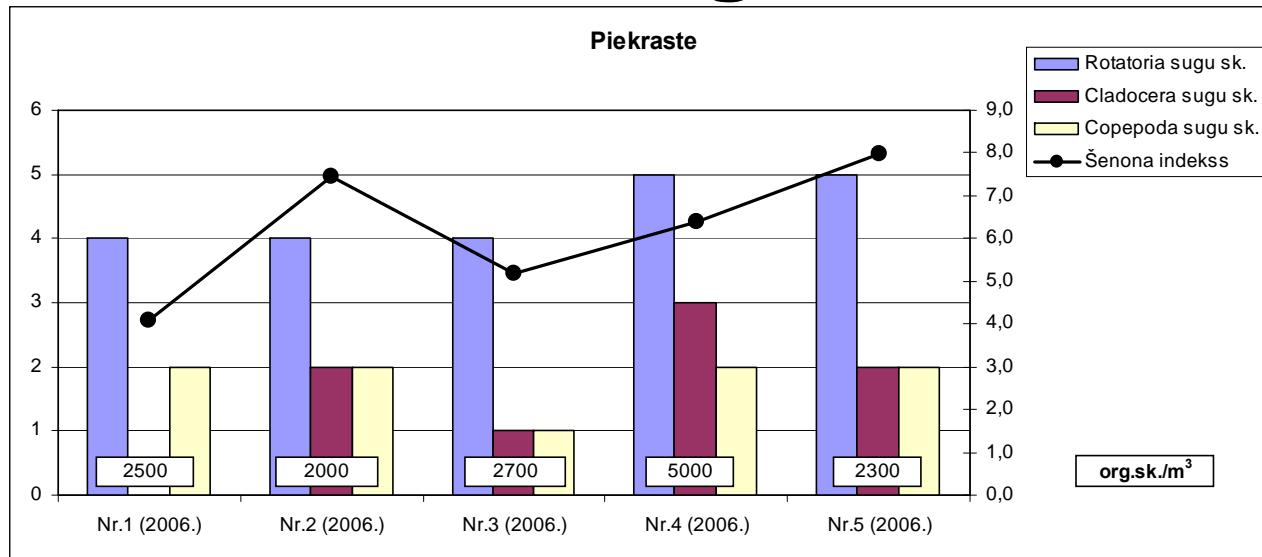


$$H' = \sum_{i=1}^s (p_i)(\log_2 p_i); \text{Shannon - Wiener}$$

$$N_1 = 2^{H'}; (\text{Margalef 1958})$$



2006.gads





Sugu saraksts

Rotatoria	1962.g	2006.g	Abos
<i>Asplanchna priodonta</i>		+	
<i>Brachionus angularis</i>	+		
<i>Brachionus pala</i>	+		
<i>Brachionus quadridentatus</i> <i>clunior biculans</i>		+	
<i>Brachionus urceolaris</i>	+		
<i>Brochionus quadridentatus</i>			+
<i>Conochilus hippocrepis</i>		+	
<i>Euchlanis dilatata</i>			+
<i>Karatella quadrata</i>		+	
<i>Kellicottia longispina</i>		+	
<i>Keratella cochlearis</i>		+	
<i>Lacinularis flosculosa</i>	+		
<i>Lecane luna</i>	+		
<i>Lepadella oblonga</i>	+		
<i>Notholca longispina</i>	+		
<i>Philodina sp.</i>	+		
<i>Pilinia longiseta</i>	+		
<i>Pterodina patina</i>			+
<i>Rotifer sp.</i>		+	
<i>Scaridium longicaudum</i>	+		
<i>Synchaeta sp.</i>			+
Kopā (21)	10	7	4

Cladocera	1962.g	2006.g	Abos
<i>Acroperus harpeo</i>	+		
<i>Alona quadrangularis</i>		+	
<i>Bosmina longirostris</i>			+
<i>Ceriodaphnia quadrangula</i>			+
<i>Chydorus sphaericus</i>			+
<i>Daphnia longispina</i>	+		
<i>Maerotrix laticoris</i>	+		
<i>Pleuroxus aduncus</i>	+		
<i>Rhynchotalona rostrata</i>	+		
<i>Sida crystallina</i>		+	
Kopā (10)	5	2	3

Copepoda	1962.g	2006.g	Abos
<i>Capthocphthus stephilinus</i>	+		
<i>Copepodida</i>			+
<i>Cyclops sp.</i>			+
<i>Harpacticoidae</i>		+	
<i>Nauplii</i>			+
<i>Paracyclops fibratus</i>	+		
Kopā (6)	2	1	3

Līdzību noteikšana

$$P = \sum_i \min(p_{1i}, p_{2i}); \text{(Renkonen 1938)}$$

		Nr.1 (1962.)		Nr.1 (2006.)		Nr.2 (1962.)		Nr.2 (2006.)		Nr.3 (2006.)		Nr.4 (2006.)		Nr.5 (1962.)		Nr.5 (2006.)	
		Piekraste	Vidus														
Nr.1 (1962.)	Piekraste		14	10	12	36	17	34	2	32	4	23	0	39	45	11	4
	Vidus			6	1	27	31	9	6	17	15	11	0	17	31	12	11
Nr.1 (2006.)	Piekraste				61	16	0	42	21	29	15	31	41	24	20	31	30
	Vidus					0	0	29	13	30	0	27	33	16	10	17	8
Nr.2 (1962.)	Piekraste					19	3	0		17	30	11	0	51	54	1	18
	Vidus						8	0		14	6	10	0	9	15	11	0
Nr.2 (2006.)	Piekraste						32		43	10	27	19	17	22	52	27	
	Vidus								37	29	17	26	7	10	51	68	
Nr.3 (2006.)	Piekraste								37		39	7	37	30	49	53	
	Vidus									8	0	44	20	24	33		
Nr.4 (2006.)	Piekraste									29		28	18	29	20		
	Vidus											0	0	8	8		
Nr.5 (1962.)	Piekraste											50	16	24			
	Vidus												22	20			
Nr.5 (2006.)	Piekraste													50			
	Vidus																



Paldies par uzmanību!