

E. Rott, D. Gesierich, N. Binder

## Lebensraumtypen und Diversitätsgradienten lotischer Algen in einem Gletschereinzugsgebiet

Tab. A1:

Gesamtartenliste der benthischen Algen an den untersuchten Probenstellen im Rotmoostal inkl. Einstufung der Arten; Rote Liste der Kieselalgen (RL) nach Lange-Bertalot (1996); Rote Liste der Zieralgen nach Lenzenweger (1999a); Trophiewerte (TW) nach Rott et al. (1999); 1 - vom Aussterben bedroht, 2 - stark gefährdet, 3 - gefährdet, G - Gefährdung anzunehmen, R - extrem selten, V - zurückgehend, \* - derzeit nicht als gefährdet anzusehen, \*\* - mit Sicherheit ungefährdet, • - im Gebiet zu erwarten, D - Daten mangelhaft (modifiziert aus: Gesierich, D. & E. Rott (2004) Benthic algae and mosses from aquatic habitats in the catchment of a glacial stream (Rotmoos, Ötztal, Austria). Ber. nat.-med. Ver. Innsbruck 91: 37-42.)

	RM lotic	RM Hydrurus	EKS	HSS	HFS	SKS	LGS	SWS	SWSa	MUS	SBS	KKS	FEN pool	FEN sedge	FEN stream	FEN moss	FEN algae	TW	RL
<b>Cyanophyceae</b>																			
<i>Ammatoidea normanni</i>					X						X	X			X			1,2	
<i>Ammatoidea simplex</i>															X			1.2*	
<i>Aphanocapsa</i> sp.					X			X					X						
<i>Aphanothece saxicola</i>												X						1,7	
<i>Aphanothece stagnina</i>														X					
<i>Calothrix fusca</i>				X						X	X	X			X			1,2	
<i>Calothrix</i> sp.												X							
<i>Chamaesiphon fuscus</i>								X	X		X	X						0.7*	
<i>Chamaesiphon incrustans</i>				X				X				X						1.7*	
<i>Chamaesiphon investiens</i>								X										1.2*	
<i>Chamaesiphon minutus</i>		X						X	X		X							0.6*	
<i>Chamaesiphon polonicus</i>					X			X	X	X	X	X			X			1.2*	
<i>Chamaesiphon rostafinskii</i>										X								0.3*	
<i>Chroococcus</i> sp.													X						
<i>Clastidium rivulare</i>								X										0.8*	
<i>Clastidium setigerum</i>								X		X		X			X			0.4*	
<i>Dichothrix gypsophila</i>											X							1.2*	

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	RM lotic	RM Hydrurus	EKS	HSS	HFS	SKS	LGS	SWS	SW/Sa	MUS	SBS	KKS	FEN pool	FEN sedge	FEN stream	FEN moss	FEN algae	TW	RL
<i>Entophysalis</i> sp.								X											
<i>Gloeocapsa alpina</i>								X			X	X					X	0,6	
<i>Gloeocapsa dermochroa</i>								X			X	X						1,1*	
<i>Gloeocapsa sanguinea</i>					X							X					X	1,2	
<i>Homoeothrix fusca</i>				X						X								0,6	
<i>Homoeothrix gracilis</i>								X			X	X						0,8*	
<i>Homoeothrix janthina</i>								X	X	X								1,5*	
<i>Homoeothrix varians</i>	X			X		X	X	X	X		X	X			X			1,4*	
<i>Hydrococcus rivularis</i>							X											1,7*	
<i>Lyngbya martensiana</i>											X								
<i>Nostoc</i> sp.									X		X	X	X						
<i>Oscillatoria sancta</i>											X							3,5	
<i>Phormidium autumnale</i>					X		X	X	X	X	X	X	X					1,7*	
<i>Phormidium incrustatum</i>											X							2,4*	
<i>Phormidium subfuscum</i>								X			X	X						1,6*	
<i>Phormidium uncinatum</i>											X								
<i>Pleurocapsa minor</i>								X			X							2,3*	
<i>Pseudanabaena</i> sp.				X															
<i>Schizothrix</i> sp.								X											
<i>Siphononema polonicum</i>											X	X						0,6*	
<i>Stigonema mamillosum</i>													X				X	0,3	
<i>Synechococcus</i> sp.											X								
<i>Tolypothrix penicillata</i>		X							X	X	X		X	X			X	0,6	
<i>Woronichinia</i> sp.													X						
<i>Xenococcus</i> sp.										X									
<b>Chrysophyceae</b>																			
<i>Chrysoapsa</i> sp.									X										
<i>Hydrurus foetidus</i>	X	X		X				X				X						1,3*	
<i>Phaeodermatium rivulare</i>	X	X	X			X	X	X	X	X	X	X						1,8*	
<b>Diatomophyceae</b>																			
<i>Achmanthes altaica</i>											X					X	X	1,7	G
<i>Achmanthes biasolettiana</i>	X	X	X	X						X			X	X	X			1,3*	**
<i>Achmanthes bioretii</i>	X	X		X				X	X				X					1,8	V

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	RM lotic	RM Hydrurus	EKS	HSS	HFS	SKS	LGS	SWS	SW/Sa	MUS	SBS	KKS	FEN pool	FEN sedge	FEN stream	FEN moss	FEN algae	TW	RL
<i>Achmanthes cf. grischuna</i>	X																		*
<i>Achmanthes cf. kryophila</i>		X								X			X	X	X	X	X		3
<i>Achmanthes cf. saccula</i>	X									X			X	X	X	X	X	0,6	.
<i>Achmanthes cf. stewartii</i>			X			X		X	X										.
<i>Achmanthes cf. subatomoides</i>		X	X					X					X		X	X	X	2,1*	V
<i>Achmanthes didyma</i>													X	X	X				3
<i>Achmanthes flexella</i>								X					X					0,3	3
<i>Achmanthes helvetica</i>	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	0,6*	*
<i>Achmanthes sp.</i>													X	X	X	X	X		
<i>Achmanthes laevis</i>	X	X	X		X	X	X	X	X	X	X						X	1,2	*
<i>Achmanthes lanceolata</i>	X	X		X	X						X	X						3,3*	**
<i>Achmanthes lanceolata ssp. frequentissima</i>	X	X		X	X													2,8*	**
<i>Achmanthes minutissima</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1,2*	**
<i>Achmanthes minutissima var. jackii</i>	X																	1,2	D
<i>Achmanthes petersenii</i>	X	X		X		X	X	X	X	X	X			X				0,6	3
<i>Achmanthes pusilla</i>													X					0,6	3
<i>Achmanthes scotica</i>			X	X	X	X		X	X					X	X	X	X		R
<i>Adlafia bryophila</i>	X	X			X					X			X	X	X	X	X	1,3	
<i>Adlafia minuscula</i>	X	X						X			X		X					1,1	
<i>Adlafia suchlandtii</i>			X					X			X		X	X	X	X	X	0,6	V
<i>Amphipleura pellucida</i>							X	X										2,1	*
<i>Amphora cf. veneta</i>											X							3,8	**
<i>Amphora inariensis</i>	X	X								X	X							2,1*	3
<i>Amphora libyca</i>								X										3,5*	**
<i>Amphora pediculus</i>	X		X	X	X		X				X	X						2,8*	**
<i>Aulacosira sp.</i>									X				X	X	X	X	X		
<i>Brachysira brebissonii</i>	X	X		X	X			X					X	X	X	X	X	1,1	*
<i>Caloneis hyalina</i>													X						
<i>Caloneis silicula</i>					X	X				X			X					2,5	*
<i>Caloneis tenuis</i>		X							X	X			X	X	X	X	X	1,1	G
<i>Cavinula cf. intractata</i>				X	X														
<i>Chamaepinnularia mediocris</i>												X	X	X	X	X	X	0,6	V

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<i>Chamaepinnularia schaupiana</i>					X								X			X	X		
<i>Cocconeis pediculus</i>	X	X	X				X	X										2,6*	**
<i>Cocconeis placentula</i>				X	X	X		X		X		X			X			2,6*	**
<i>Cyclotella</i> sp.	X	X	X		X														
<i>Cymbella affinis</i>	X	X		X	X			X			X				X			0,7*	*
<i>Cymbella amphicephala</i>											X							1,1	V
<i>Cymbella aspera</i>													X					1,7	V
<i>Cymbella cistula</i>					X													2,3	V
<i>Cymbella delicatula</i>	X	X													X			0,3*	G
<i>Cymbella ehrenbergii</i>		X																2,2	V
<i>Cymbella naviculacea</i>													X		X	X	X		3
<i>Cymbella naviculiformis</i>	X	X											X	X	X	X		1,8	*
<i>Cymbella subaequalis</i>	X	X			X			X	X	X	X		X	X	X	X	X	1,0	G
<i>Cymbella subcuspidata</i>													X	X					
<i>Denticula tenuis</i>	X	X		X	X	X		X			X		X		X	X		1,4*	*
<i>Diademesis gallica</i> var. <i>perpusilla</i>			X	X	X	X		X		X	X	X		X	X	X	X	1,2	**
<i>Diatoma ehrenbergii</i>	X							X										1,6*	**
<i>Diatoma hyemalis</i>									X									1,0*	*
<i>Diatoma mesodon</i>	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		0,7*	*
<i>Diatoma vulgare</i>								X			X							2,0	D
<i>Diploneis boldtiana</i>		X																	.
<i>Diploneis</i> cf. <i>elliptica</i>											X							1,7	*
<i>Diploneis</i> cf. <i>petersenii</i>										X				X				1,3	3
<i>Diploneis marginistriata</i>											X								3
<i>Diploneis marginulata</i>													X						
<i>Diploneis oblongella</i>											X							1,0	V
<i>Encyonema neogracile</i> var. <i>tenuipunctatum</i>																	X	0,6	3
<i>Encyonema alpina</i>	X			X							X							0,6	G
<i>Encyonema caespitosa</i>				X	X								X					2,1	**
<i>Encyonema</i> cf. <i>vulgare</i>													X						
<i>Encyonema falaisensis</i>	X	X		X	X	X	X			X	X		X	X	X	X	X	0,4*	G

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<i>Encyonema fogedii</i>	X	X						X											
<i>Encyonema gaeumannii</i>											X		X	X	X	X	X	0,6	
<i>Encyonema minutum</i>	X	X	X	X	X	X	X	X				X		X				2,0*	*
<i>Encyonema neogratile</i>	X	X											X	X	X	X	X		
<i>Encyonema perpusilla</i>													X	X	X	X	X	0,5	
<i>Encyonema silesiacum</i>	X	X					X	X	X	X	X	X	X	X	X	X	X	2,0	*
<i>Encyonopsis cesatii</i>				X				X	X					X	X	X	X	0,6	*
<i>Encyonopsis microcephala</i>				X	X		X						X				X	1,2*	*
<i>Encyonema lange-bertalotii</i>	X	X												X					
<i>Epithemia</i> sp.					X				X	X									
<i>Eunotia</i> #3 JÖ														X	X	X	X		
<i>Eunotia arcus</i>								X	X									1,1	
<i>Eunotia bilunaris</i>													X	X	X	X	X	0,7	2
<i>Eunotia</i> cf. <i>groenlandica</i>													X			X			.
<i>Eunotia</i> cf. <i>pseudoparalleloides</i>										X									.
<i>Eunotia curtagrunowii</i>			X			X							X		X	X			
<i>Eunotia exigua</i>	X	X	X	X	X				X				X	X	X	X	X	0,5*	**
<i>Eunotia incisa</i> „borealis“	X	X	X			X			X				X	X	X	X	X		*
<i>Eunotia inflata</i>													X		X				
<i>Eunotia islandica</i>													X						D
<i>Eunotia pectinalis</i>														X	X	X		1,1	V
<i>Eunotia tetraodon</i>															X		X		2
<i>Eunotia valida</i>													X						
<i>Fragilaria arcus</i>	X	X	X	X	X	X	X	X	X	X	X	X			X			1,0*	**
<i>Fragilaria brevistriata</i>	X	X																3,0*	**
<i>Fragilaria capucina</i> var. <i>austriaca</i>		X		X	X		X	X	X	X			X		X	X		0,5*	G
<i>Fragilaria capucina</i> var. <i>capucina</i>	X	X								X								1,8	**
<i>Fragilaria capucina</i> var. <i>vaucheriae</i>	X	X						X	X									1,8*	**
<i>Fragilaria construens</i> f. <i>binodis</i>								X										2,3	*
<i>Fragilaria construens</i> f. <i>venter</i>							X	X	X				X	X	X	X	X	2,3	**

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<i>Fragilaria exigua</i>													X	X				0,6	
<i>Fragilaria gracilis</i>	X	X	X		X			X		X	X		X	X	X	X	X		
<i>Fragilaria oldenburgiana</i>								X						X					D
<i>Fragilaria pinnata</i>	X	X		X	X			X			X		X	X				2,2*	**
<i>Fragilaria tenera</i>					X													1,0	V
<i>Fragilaria ulna</i>	X				X			X			X							3,5*	*
<i>Fragilaria virescens</i>								X							X			1,4	V
<i>Frustulia crassinervia</i>																	X	0,4	V
<i>Frustulia saxonica</i>			X	X	X	X				X			X	X	X	X	X	0,4	V
<i>Frustulia</i> sp.	X	X																	
<i>Gomphonema</i> #4 JÖ													X	X	X	X	X		
<i>Gomphonema amoenum</i>	X	X						X					X		X	X	X	0,4	3
<i>Gomphonema anglicum</i>										X									
<i>Gomphonema angustum</i>	X	X																1,0*	V
<i>Gomphonema clavatum</i>	X	X								X			X	X	X	X			*
<i>Gomphonema coronatum</i>					X						X								3
<i>Gomphonema exilis</i>													X		X	X			
<i>Gomphonema hebridense</i>													X	X	X	X	X	0,9	V
<i>Gomphonema micropus</i>	X	X	X	X	X	X					X	X						2,0	*
<i>Gomphonema olivaceum</i> var. <i>minutissimum</i>	X	X																1,2*	*
<i>Gomphonema pala</i>													X	X					
<i>Gomphonema parvulus</i>			X		X	X				X			X	X	X	X			
<i>Gomphonema</i> sp.								X					X	X	X				
<i>Gomphonema sphaenovertex</i>													X				X		
<i>Gomphonema tergestinum</i>		X	X	X	X	X	X				X	X						1,4*	G
<i>Gomphonema truncatum</i>														X				1,9	*
<i>Hantzschia amphioxys</i>	X										X							3,6*	**
<i>Hygropetra balfouriana</i>										X			X	X				0,6	R
<i>Luticola acidoclinata</i>				X														2,9	
<i>Meridion circulare</i>	X	X		X							X	X			X			2,5*	**
<i>Navicula angusta</i>						X		X		X						X	X	0,6	3
<i>Navicula cari</i>		X																2,6	**
<i>Navicula</i> cf. <i>scutelloides</i>														X				2,7	

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<i>Navicula cryptocephala</i>		X																3,5*	**
<i>Navicula cryptotenella</i>	X	X					X				X							2,3*	
<i>Navicula exilis</i>			X	X	X					X	X		X	X		X		2,0	G
<i>Navicula heimansoides</i>													X						3
<i>Navicula radiosa</i>				X						X	X		X					0,6	**
<i>Navicula tripunctata</i>						X												3,1*	**
<i>Navicula trivialis</i>	X	X																3,3	**
<i>Naviculadicta bremensisformis</i>													X	X	X	X			3
<i>Neidium affine</i>	X	X											X	X	X			0,6	V
<i>Neidium affine</i> var. <i>linearis</i>															X				
<i>Neidium affine</i> var. <i>longiceps</i>													X					0,6	G
<i>Neidium bisulcatum</i>													X		X			0,6	3
<i>Nitzschia acidoclinata</i>					X	X					X		X	X	X		X	2,3	*
<i>Nitzschia alpina</i>								X			X		X		X		X	0,6	G
<i>Nitzschia</i> cf. <i>tubicola</i>	X	X																3,4	*
<i>Nitzschia fonticola</i>	X			X														1,9	**
<i>Nitzschia gracilis</i>								X			X	X	X	X			X	2,5*	*
<i>Nitzschia hantzschiana</i>				X		X		X			X		X	X		X	X	2,0	*
<i>Nitzschia perminuta</i>	X	X		X				X			X	X	X	X	X	X	X	2,3	*
<i>Nitzschia pura</i>	X	X											X					1,9*	*
<i>Nitzschia subacicularis</i>	X																	2,9	R
<i>Pinnularia acidoclinata</i>			X																
<i>Pinnularia biceps</i>													X	X					
<i>Pinnularia borealis</i>	X	X																1,9	**
<i>Pinnularia borealis</i> var. <i>sublinearis</i>			X														X		
<i>Pinnularia divergentissima</i> var. <i>minor</i>														X		X	X		D
<i>Pinnularia flexuosa</i>													X						.
<i>Pinnularia irronata</i>													X						
<i>Pinnularia microstauron</i>	X	X											X	X	X			1,0	V
<i>Pinnularia neglectiformis</i>														X					
<i>Pinnularia notabilis</i>														X					G

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<i>Pinnularia obscura</i>					X	X		X					X	X	X	X	X	2,0	**
<i>Pinnularia ovata</i>													X						
<i>Pinnularia permicrostauron</i>													X						
<i>Pinnularia pisciculus</i>																X			
<i>Pinnularia stidolphii</i>													X				X		
<i>Pinnularia subcapitata</i>		X																	*
<i>Pinnularia subcapitata</i> var. <i>subrostrata</i>			X		X								X	X		X	X		*
<i>Pinnularia submicrostauron</i>				X															D
<i>Pinnularia tirolensis</i> var. <i>julma</i>													X	X					
<i>Pinnularia viridiformis</i>																	X		G
<i>Pinnularia viridis</i>													X		X			1,3	*
<i>Reimeri sinuata</i>	X	X		X	X	X		X	X		X							2,1*	**
<i>Sellaphora laevissima</i>														X				1,1	V
<i>Sellaphora pupula</i>				X	X								X	X	X	X		3,7*	**
<i>Stauroneis prominula</i>													X				X		
<i>Surirella</i> sp.																	X		
<i>Tabellaria flocculosa</i>	X	X		X	X			X				X	X	X	X	X	X	0,8*	**
<b>Chlorophyceae</b>																			
<i>Gongrosira debaryana</i>								X										2,1*	
<i>Gongrosira incrustans</i>											X							1,8*	
<i>Haematococcus pluviialis</i>													X						
<i>Microspora</i> sp.				X											X		X		
<i>Oedogonium</i> sp.								X	X						X		X		
<i>Oocystis solitaria</i>													X						
<i>Pediastrum tetras</i>													X						
<i>Sphaerobotrys fluviatilis</i>								X										3,1*	
<i>Stigeoclonium</i> sp.																	X		
<b>Zygnematophyceae</b>																			
<i>Closterium closterioides</i>													X						3
<i>Closterium lunula</i>								X	X										
<i>Closterium striolatum</i>													X	X					3
<i>Cosmarium botrytis</i>											X				X				3

## Anhang Kapitel 8 | Aquatische Lebensräume

	RM lotic	RM Hydrurus	EKS	HSS	HFS	SKS	LGS	SWS	SW/Sa	MUS	SBS	KKS	FEN pool	FEN sedge	FEN stream	FEN moss	FEN algae	TW	RL
<i>Cosmarium difficile</i>																X			*
<i>Cosmarium impresulum</i> var. <i>alpicolum</i>													X						
<i>Cosmarium margariiferum</i>													X	X					3
<i>Cosmarium novae-semlicae</i> var. <i>sibiricum</i>													X						
<i>Cosmarium ochthodes</i>													X						3
<i>Cosmarium portianum</i>													X						*
<i>Cosmarium speciosissimum</i>													X						
<i>Cosmarium subcostatum</i> var. <i>minus</i>													X						3
<i>Cosmarium vexatum</i> var. <i>concauum</i>																	X		D
<i>Euastrum aboense</i>													X	X					3
<i>Euastrum ansatum</i> var. <i>pyxidatum</i>													X	X			X		3
<i>Euastrum bidentatum</i>													X						3
<i>Euastrum denticulatum</i>													X						3
<i>Euastrum inerme</i>														X					1
<i>Euastrum verrucosum</i> var. <i>alatum</i>													X						3
<i>Micrasterias denticulata</i>													X	X					3
<i>Micrasterias denticulata</i> var. <i>angulosa</i>													X	X					3
<i>Micrasterias papillifera</i>													X	X					3
<i>Mougeotia ovalis</i>																X	X		
<i>Mougeotia</i> sp.								X							X		X		
<i>Penium cylindrus</i>													X						3
<i>Penium</i> sp.													X						
<i>Penium spirostriolatum</i>													X						2
<i>Sphaerosozma</i> sp.																	X		
<i>Spirogyna</i> sp.								X	X							X			
<i>Staurastrum crenulatum</i>								X					X						3
<i>Staurastrum monticulosum</i>													X						2
<i>Staurastrum orbiculare</i> var. <i>ralfsii</i>													X						

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	RM lotic	RM Hydrurus	EKS	HSS	HFS	SKS	LGS	SWS	SW/Sa	MUS	SBS	KKS	FEN pool	FEN sedge	FEN stream	FEN moss	FEN algae	TW	RL
<i>Staurastrum pyramidatum</i>																X			2
<i>Staurastrum teliferum</i> var. <i>ordinatum</i>													X						
<i>Tetmemorus granulatus</i>													X						3
<i>Zygnema</i> sp.								X	X						X	X	X		
<b>Dinophyceae</b>																			
<i>Gloeodinium montanum</i>								X	X										
<b>Rhodophyceae</b>																			
<i>Chantransia</i> sp.								X		X									
<b>Xanthophyceae</b>																			
<i>Vaucheria</i> sp.									X										
<b>Artenzahl Kieselalgen</b>	63	61	27	38	48	27	14	50	6	41	46	19	89	65	68	60	57		
<b>Artenzahl Nicht-Kieselalgen</b>	2	4	2	3	8	2	3	29	15	12	26	18	35	10	11	5	13		
<b>Gesamtartenzahl</b>	65	65	29	41	56	29	17	79	21	53	72	37	124	75	79	65	70		

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Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Publikationen Alpine Forschungsstelle Obergurgl](#)

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