

Table S1. Species composition and biomass of specific algae taxa in lower and upper part of ablation zone on Forni Glacier in 2019.

Species mm3/L	Date of sampling										
	4.7Down	4.7Up	26.7Down	26.7Up	15.8Dowr	15.8Up	30.8Dowr	30.8Up	19.9Dowr	19.9Up	
<b>Cyanobacteria</b>											
cf. <i>Chroococcus</i> sp.	0	0	0	26,5	0	0	0	0	0	0	0
<i>Phormidium</i> sp.	3331,26902	81173	67982,56	1144,1	17441,5	560,82	2770,45	0	171869	2658,29	
<i>Leptolyngbya</i> sp. 1	1047,78466	2014,97	224,275	455,6	560,687	38,5	0	0	304,874	772,697	
<i>Leptolyngbya</i> sp. 2	190,1	0	0	0	0	0	0	0	0	0	
<i>Pseudanabaena</i> sp.	0	0	0	0	0	44,1563	0	0	0	0	
Total	<b>4569,15368</b>	<b>83188</b>	<b>68206,84</b>	<b>1626,2</b>	<b>18002,2</b>	<b>643,476</b>	<b>2770,45</b>	<b>0</b>	<b>172174</b>	<b>3430,98</b>	
<b>Chlorophyta</b>											
<i>Cylindrocapsa brebbioni</i>	43535,8278	361396	148021,8	4011,2	37470,2	4343,8	3913,33	75918,7	54884,5	4725,35	
<i>Chlorella</i> sp.	42544,5454	0	11613,21	17978,1	20970,8	15633,2	0	10049,9	2512,47	17754,8	
<i>Mesotaenium</i> sp.	0	0	0	0	0	491,333	0	0	0	736,999	
<i>Trochiscia granulata</i> (Rein	2638,65596	0	0	0	1754,71	0	0	0	0	5277,31	
<i>Trochiscia</i> sp.	334,264658	668,529	0	0	0	668,529	0	1337,06	0	0	
coccoid green algae	0	1391,64	463,8805	2254,5	774,68	0	0	0	0	0	
Total	<b>89053,2939</b>	<b>363456</b>	<b>160098,9</b>	<b>24243,8</b>	<b>60970,3</b>	<b>21136,8</b>	<b>3913,33</b>	<b>87305,6</b>	<b>57397</b>	<b>28494,5</b>	
<b>Bacillariophyceae</b>											
<i>Fragilaria</i> sp.	0	0	0	0	177	177	0	0	0	0	
<i>Nitzschia</i> sp. 1	300	900	540	1050	0	0	240,1	300	300	0	
<i>Nitzschia</i> sp. 2	0	0	0	400	300	600	0	0	0	0	
<i>Nitzschia</i> sp. 3	0	0	0	100	0	0	0	0	0	0	
<i>Cyclotella</i> sp.	2200	5500	4400	0	0	0	0	0	0	0	
<i>Pinnularia</i> sp. 2	0	0	0	800	0	0	0	0	0	0	
<i>Pinnularia</i> sp. 1	0	0	440	0	0	0	0	880	0	440	
<i>Eunotia</i> sp.	0	0	1059,19	0	0	0	0	0	0	0	
cf. <i>Achnanthes</i> sp.	0	0	0	0	0	1000	0	0	0	500	
<i>Diatoma</i> sp.	0	0	0	500	0	500	0	0	0	0	
<i>Suriella</i> sp.	0	0	0	800	0	0	0	0	0	0	
<i>Aulacoseira granulata</i> (Eh	0	623,113	934,6692	934,7	623,113	383,214	0	0	623,113	520,299	
Unidentified 1	0	0	0	0	0	966,6	0	0	0	0	
Unidentified 2	0	406,64	0	0	0	0	0	0	0	0	
Total	<b>2500</b>	<b>7429,75</b>	<b>7373,859</b>	<b>4584,7</b>	<b>1100,11</b>	<b>3626,81</b>	<b>240,1</b>	<b>1180</b>	<b>923,113</b>	<b>1460,3</b>	