

Supplementary material for manuscript submitted to *Scientific Reports*:

Subglacial discharges create fluctuating foraging *hotspots* for sea birds in tidewater glacier bays

Jacek Andrzej Urbanski* , Lech Stempniewicz , Jan Marcin Węsławski , Katarzyna Dragańska-

Deja , Agnieszka Wochna , Michał Goc , Lech Iliszko

Table S1. Mean macroplankton biomass registered in surface samples close to (G1-G4) and away from (G1 control- G4 control) the glacier front, 38 samples, July 2015, Hornsund.

TAXON	Size class	Ind. Mean Weight class	G1	G1 control	G2	G2 control	G3	G3 control	G4	G4 control
	mm	mg	biomass	biomass	biomass	biomass	biomass	biomass	biomass	biomass
<i>Aglantha digitale</i>	15	50	7.1	12.5	13.3	20	8.3	16.7	12.5	0.5
<i>Clione limacina</i>	15	80	11.4	0	208.3	0	0,0	0	40	0.25
Copepoda	5	5	446.4	280	53.3	53	350.0	250.0	1875	125
Ctenophora	10	40	120.0	80	5.8	24	13.3	13.3	20	0.25
<i>Eupagurus zoea</i>	5	5	3.6	0	0	0	45.8	8.3	55	0
<i>Gammarus sp.</i>	10	12	0	0	1.7	0	0	0	3	0
<i>Helicina limacina</i>	10	10	0	0	6.7	0	1.7	6.7	5	0.25
<i>Hippolitidae larvae</i>	10	20	0	0	0	0	0	6.7	5	0.75
<i>Hyas zoea</i>	5	10	104.3	12.5	70.0	0	0	3.3	5	0
<i>Hydromedusae</i>	10	30	55.7	112.5	6.7	0	0	50.0	195	2.5
<i>Hyperia sp</i>	5	10	8.6	5	0	0	1.7	0	2,5	0.25
<i>Mysis oculata</i>	15	55	0	0	1.7	0	0	0	1155	0
<i>Onisimus littoralis</i>	5	10	0	0	0	0	0	0	20	0
<i>Sabinea spetemcarinata larvae</i>	10	10	0	0	17.5	0	0	3.3	0	0
<i>Sagitta elegans</i>	10	15	19.3	0	340.0	18	0	0	0	0
<i>Sagitta elegans</i>	20	40	171.4	110	13.5	8	1020.0	893.3	840	1.75
<i>Themisto abyssorum</i>	10	27	7.7	0	6.7	0	0	0	27	0.25
<i>Themisto abyssorum</i>	5	10	0	0	0	0	0	0	0	0
<i>Themisto libellula</i>	10	30	4.3	0	0	0	0	0	0	0
<i>Themisto libellula</i>	15	50	0	0	15.0	0	8.3	0	12.5	0
<i>Thysanoessa inermis</i>	10	15	0	0	113.3	0	150.0	30.0	22.5	0
<i>Thysanoessa inermis</i>	20	85	12.1	0	10.0	0	255.0	28.3	0	0
<i>Thysanoessa rashii</i>	10	15	0.0	0	0	0	47.5	0	3.75	0
fish larvae	15	50	0.0	0	0	0	8.3	0	37.5	0
			972	613	884	123	1910	1310	4336	132

Video S2

Foraging hotspot of kittiwakes in front of Storbreen, Hornsund (77.09691 N, 16.35786 E). Video recorded digitally by Michał Goc on 20 July 2016 using drone (DJI Phantom 2 Vision) with remote controlled camera. Note behavior of birds, brown water color and sea surface turbulence (boiling water).