## Food resources of the bivalve *Astarte elliptica* in a sub-Arctic fjord: a multi-biomarker approach

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**Table S1.** Fatty acid composition, expressed as mass % of total fatty acids, of (A) the particulate organic matter (POM) in sub-surface (s-POM) and bottom (b-POM) waters, (B) sediments and (C) tissues of *Astarte elliptica* (DG = digestive gland and F = feet) collected in Kobbefjord in May and September 2013. Sediment data were average since no significant difference was found between May and September (PERMANOVA, P (perm) = 0.07; Table 2). Fatty acids > 1% were included. MTFA = mass of total fatty acid expressed in mg g<sup>-1</sup>; SFA = saturated fatty acid; MUFA = monounsaturated fatty acid; PUFA = polyunsaturated fatty acid. Values are mean (SE).

(A)	s-POM			b-POM					
	May	September		May		Septe	September		
12:0	10.0 (0.3)	7.7 (2.8)		4.1 (2.1)		2.7 (2.0)			
14:0	10.1 (0.7)	7.5 (0.4)		8.5 (0.3)		5.5 (0.9)			
16:0	30.3 (1.4)	32.0 (1.4)		33.5 (1.0)		37.7 (1.0)			
18:0	34.7 (1.5)	41.9 (2.2)		38.7 (2.2)		49.4	(1.5)		
$\Sigma$ SFA	87.0 (2.2)	91.1 (0.7)		86.8 (0.8)		97.0 (0.8)			
16:1ω7	4.9 (0.7)	1.4 (0.2)		4.4 (0.3)		0.5 (0.1)			
18:1ω9	1.0 (0.1)	1.0 (0.2)		1.1 (0.0)		1.1 (0.2)			
Σ MUFA	7.0 (0.9)	3.4 (0.4)		6.8 (0.5)		1.9 (0.4)			
18:4ω3	0.8 (0.2)	1.1 (0.1)		0.7 (0.0)		0.1	0.1 (0.0)		
20:5ω3	1.8 (0.3)	1.6 (0.1)		2.8 (0.5)		0.4	0.4 (0.2)		
22:6ω3	0.6 (0.1)	1.3 (0.1)		0.6(0.0) 0.		0.2	(0.1)		
Σ PUFA	6.1 (1.2)	5.5 (0.3)		6.5 (0.6) 1.		1.0	(0.4)		
MTFA	95.4 (3.6)	66.4 (14.4)		98.6 (7.1) 7		71.0	71.0 (14.1)		
(B)	Sediment	(())		I	)(;				F
(D)	Scument	(0)	M	lav	Sente	mher	May		Sentember
14:0	6.2(0.3)	14:0	2.3	(0.1)	1.5 (	(0.1)	1.0 (0.1	)	0.6(0.1)
15.0	14(01)	16.0	95	(0.1)	940	(0.1)	116(0)	י גו	10.6(0.1)
<i>i</i> -15·0	1.1(0.1) 14(01)	17.0	0.6	(0.0)	0.8 (	(0.1)	12(01)	י ר	13(01)
<i>ai</i> -15.0	28(01)	i-17.0	0.8	(0.0)	0.0 (	(0.0)	13(01	)	1.0(0.1) 14(01)
	14.1		2.5	(0.1)	2.8 (	0.1	3.8 (0.2	5	4.4 (0.3)
16:0	(0.3)	18:0		()				)	
18:0	3.0 (0.1)	Σ SFA	17.3	(0.5)	17.2	(0.4)	21.4 (0.5	5)	21.6 (0.5)
22:0	1.6 (0.2)								
24:0	1.5 (0.2)	16:1ω7	5.2	(0.2)	4.4 (	(0.3)	3.7 (0.5	)	2.5 (0.3)
Σ SFA	36.9	Σ 18:1 <sup>b</sup>	7.1	(0.2)	7.6 (	(0.3)	8.0 (0.3	)	7.3 (0.4)
-	(0.9)	<b>Σ</b> 20.1c	0.2	(0.2)	10.4	(1 1)	0 2 (0 2	n	10 2 (1 1)
	21.6	Z Z0:1°	0.4	(0.5)	10.4	(1.1)	9.3 (0.2	.J N	10.3(1.1)
Σ 16:1ª	(0.7)	Σ MUFA	22.0	(0.5)	24.4	(0.9)	22.7 (1.)	J	20.8 (0.7)
18:1ω9	4.8 (0.4)								
18:1ω7	7.2 (0.5)	Σ 18:2 <sup>d</sup>	2.3	(0.2)	2.6 (	0.2)	1.4 (0.2	)	3.4 (0.7)
22:1ω11	1.9 (0.8)	18:4ω3	10.0	(0.7)	6.1 (	0.5)	3.3 (0.3	á	1.8 (0.4)
	39.5	20.2.0	1.2	(0.1)	1.9 (	0.2)	2.3 (0.1	)	3.0 (0.2)
2 MUFA	(0.4)	20:2ω9						-	
		20:4ω6	1.0	(0.1)	1.4 (	(0.1)	3.0 (0.5	)	4.2 (0.4)
16:4ω1	1.3 (0.1)	20:5ω3	24.7	(0.5)	23.1	(0.2)	20.7 (1.3	3)	15.9 (1.4)
18:4ω3	1.2 (0.1)	21:5ω3	2.1	(0.0)	2.0 (	(0.1)	1.7 (0.1	)	1.5 (0.1)
20:4ω6	3.1 (1.0)	Σ 22:2e	2.8	(0.2)	4.4 (	(0.6)	6.2 (0.7	)	8.7 (1.1)
20:5w3	10.2	22:6w3	9.5	(0.1)	10.7	(0.5)	12.1 (0.1	7)	13.4 (0.8)
22.64.2	(0.4) 2.8 (0.2)		60.2	(0.8)	5Q /	(0.6)	550(0)	ดา	576(05)
22.0W3 Σ DIIE Λ	2.0 (0.2J 23.6	<b>Δ Γ ΟΓΑ</b>	00.2	נט.ס	50.4	נט.טן	55.9 (0.)	<i>י</i> ן י	57.0 (0.5)
LIUPA	(1.1)								
ΜΤΕΔ	(1,1)	ΜΤΕΔ	293	(3 5)	2221	(3 4)	122(19	ลา	86(15)
$a \Sigma 16.1$ is the sum of $16.109          \text$									
$^{\rm b}\Sigma$ 18.1 is the sum of 18.109 $$ $_{\odot}7$ and $$ $_{\odot}5$									

<sup>c</sup>  $\Sigma$  18:1 is the sum of 18:1 $\omega$ 9,  $\omega$ 7, and  $\omega$ 5 <sup>c</sup>  $\Sigma$  20:1 is the sum of 20:1 $\omega$ 9,  $\omega$ 7, and  $\omega$ 5 <sup>d</sup>  $\Sigma$  18:2 is the sum of 18:2 $\omega$ 6 and  $\omega$ 3 <sup>e</sup>  $\Sigma$  22:2 is the sum of 22:2 $\omega$ 9 and  $\omega$ 6