

Table S1: Sample description

#	Location	Longitude	Latitude	Type	Salinity (psu)	Species	Tissue	Number of composite samples (n)	Individuals/ composite	Females (%)	Program	Amount (g)	Year
Bothnian bay													
1	Stensjön	16E36	61N39	Limnic, littoral	0	Perch	Muscle	8	3	83	Monitoring	100	2001
2	Holmöarna	20E53	63N41	Marine, littoral	3	Perch	Muscle	8	3	100	Monitoring	100	2001
3	Harufjärden	22E42	65N35	Marine, pelagial	3	Herring	Muscle	16	1	100	Monitoring	30	2001
Bothnian sea													
4	Öjaren	16E48	60N42	Limnic, littoral	0	Perch		1	13	92	Monitoring	49	2004
5	Storfjärden	17E27	60N35	Limnic, littoral	0	Perch		1	15	87	Monitoring	50	2004
6	Långvind	17E13	61N47	Marine, littoral	3	Perch	Muscle	1	15	80	Monitoring	50	2004
7	Bay of Gävle	17E17	60N67	Marine, littoral	3	Perch	Muscle	1	15	87	Monitoring	50	2004
8	Fågelsundet	17E93	60N60	Marine, littoral	3	Perch	Muscle	1	5	60	Monitoring	50	2004
9	Örsten	17E40	60N45	Marine, littoral	3	Perch	Muscle	1	7	100	Monitoring	50	2004
10	Finnbo	19E38	60N17	Marine, littoral	5	Perch	Muscle	1	18	100	Monitoring	50	2004
Baltic Proper													
11	Hjälmaren	15E45	59N15	Limnic, littoral	0	Eel	Muscle	1	10	100	Food Control	25	2001
12	Mälaren	16E11	59N27	Limnic, littoral	0	Eel	Muscle	1	10	100	Food Control	25	2001
13	Hjärtsjön	15E17	57N0	Limnic, littoral	0	Perch	Muscle	8	2-7	65	Monitoring	100	2001
14	Askö	17E33	58N54	Marine, littoral	6	Algae	Whole	1	1	NA	Screening	80	2000
15	Kvädöfjärden	16E46	58N02	Marine, littoral	6	Perch	Muscle	8	5-6	62	Monitoring	100	2001
15	Kvädöfjärden	16E46	58N02	Marine, littoral	6	Eel	Muscle	1	19	100	Food Control	50	2000
15	Kvädöfjärden	16E46	58N02	Marine, littoral	6	Mussels	Muscle	1	many	NA	Monitoring	4.1	2000
16	Västervik	16E45	57N45	Marine, littoral	6	Eel	Muscle	1	20	100	Food Control	25	2001
17	Marsö	16E42	57N28	Marine, littoral	6	Eel	Muscle	1	21	100	Food Control	50	2000
18	Sturkö	15E40	56N02	Marine, littoral	7	Eel	Muscle	1	20	100	Food Control	50	2000
19	Valjeviken	14E36	56N02	Marine, littoral	7	Eel	Muscle	1	20	100	Food Control	50	2000
20	Karlshamn	14E52	56N08	Marine, littoral	7	Eel	Muscle	1	10	100	Food Control	25	2001
21	Utlängan	15E47	55N57	Marine, pelagial	7	Herring	Muscle	16	8	100	Monitoring	30	2001
West coast													
22	Bysjön	12E20	59N19	Limnic, littoral	0	Perch	Muscle	8	6-8	77	Monitoring	100	2001
23	Skagerack	9E0	57N60	Marine, littoral	20	Mussels	Muscle	1	many	NA	Food Control	120	2001
24	Skagerack	11E05	58N36	Marine, pelagial	20	Crabs	Muscle	1	10	100	Food Control	90	2001
25	Skagerack	11E05	58N36	Marine, pelagial	20	Shrimps	Whole	1	many	NA	Food Control	300	2001
26	Fladen	11E50	57N13	Marine, pelagial	20	Herring	Muscle	16	8	100	Monitoring	30	2001

NA: Not applicable.