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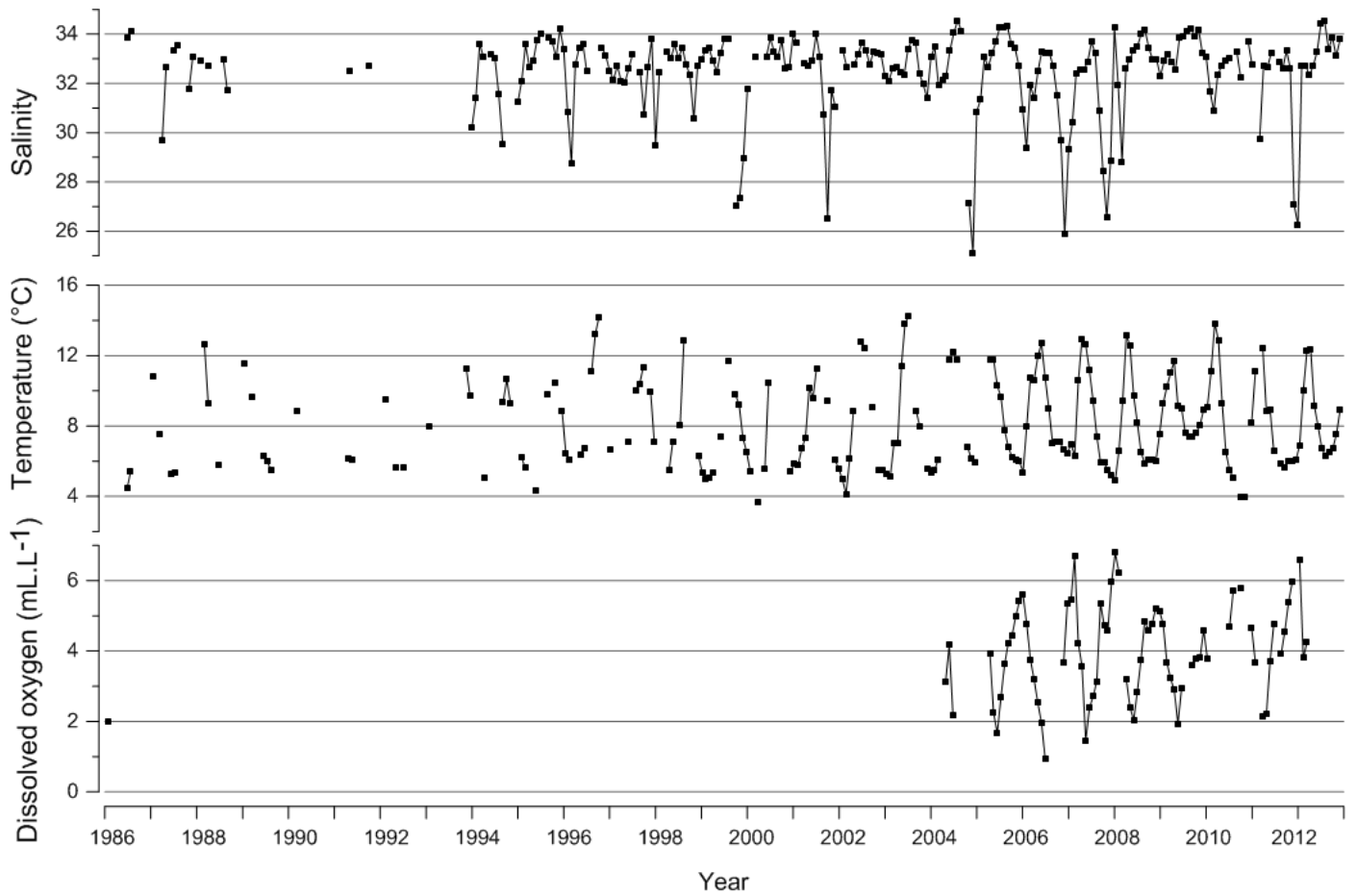
Supplement of

Rapid environmental responses to climate-induced hydrographic changes in the Baltic Sea entrance

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Supplement Fig. S1. Time series of salinity, temperature and dissolved oxygen concentration at the bottom water (40 m) of the Öresund between 1986 and 2013. The data were measured by the SMHI (Swedish Meteorological and Hydrological Institute) at the station W LANDSKRONA.

Supplement Table S1. Total faunas, normalized to 50 cm³

Station name	DV																						
	FOR-C		FOR-B2			FOR-B1							FOR-A2						FOR-A1				
	1	2	4	5	6	8	10	12	14	15	16	17	18	20	22	24	26	28	30	32	34	36	
Species																							
<i>Biloculinella inflata</i>	6	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cornuspira involvens</i>	0	6	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0
<i>Pyrgo williamsoni</i>	1	1	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0
<i>Quinqueloculina seminula</i>	0	1	0	0	35	0	14	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0
<i>Quinqueloculina stalkerii</i>	6	0	9	0	18	0	0	0	0	0	0	0	0	0	0	0	7	14	0	0	0	0	0
<i>Porcelaneous varia</i>	13	31	111	32	0	0	0	0	34	8	46	0	0	8	0	0	0	0	7	9	0	0	0
<i>Organic linings</i>	0	0	146	159	158	60	345	132	171	238	304	332	686	575	599	807	444	260	608	316	649	159	0
<i>Ammonia beccarii</i>	0	0	292	191	308	105	159	822	1495	2167	1033	498	123	121	15	16	14	49	57	103	56	25	0
<i>Ammonia falsobeccarii</i>	57	77	69	80	35	37	111	350	854	986	516	231	85	23	15	0	0	0	0	0	0	0	0
<i>Ammonia spp.</i>	0	0	0	0	0	142	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bolivina pseudoplicata</i>	0	0	9	0	0	0	0	0	68	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<i>Bolivina pseudopunctata</i>	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bolivina spp.</i>	0	0	9	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Bulimina marginata</i>	132	107	506	414	282	187	166	661	1128	1224	501	534	116	68	29	16	57	7	0	0	8	6	0
<i>Buliminella elegantissima</i>	0	6	206	143	176	60	83	57	103	170	61	29	8	8	7	8	0	70	7	9	0	0	0
<i>Cassidulina laevigata</i>	44	101	300	112	35	22	0	340	376	510	228	116	15	8	7	0	0	0	0	0	0	2	0
<i>Cassidulina reniforme</i>	0	13	17	32	0	15	14	19	68	0	15	14	0	0	0	0	0	0	0	0	0	0	0
<i>Cibicides lobatulus</i>	63	57	352	287	211	22	41	359	410	238	273	130	8	8	0	16	0	7	14	43	8	8	0
<i>Elphidium albiumbilicatum</i>	25	63	489	143	528	225	180	454	410	238	213	217	77	53	15	31	29	127	78	77	0	14	0
<i>Elphidium clavatum</i>	201	289	986	1833	2077	809	567	1436	2631	3331	1018	1430	154	136	51	39	100	183	155	111	72	45	0
<i>Elphidium magellanicum</i>	63	94	292	223	528	135	180	529	547	408	349	130	62	45	0	0	43	141	92	60	8	8	0
<i>Elphidium williamsoni</i>	19	19	86	32	18	22	14	113	68	136	61	14	0	0	0	0	7	28	21	51	16	6	0
<i>Elphidium spp.</i>	69	126	86	0	53	0	28	0	0	0	0	0	0	15	0	0	21	7	14	17	8	2	0
<i>Epistominella vitrea</i>	19	13	309	367	299	120	166	227	103	204	30	43	23	0	7	0	7	0	0	0	0	0	0
<i>Fissurina spp.</i>	0	0	0	0	0	0	0	0	34	0	15	0	0	0	0	0	0	0	0	0	0	0	0
<i>Parafissurina spp.</i>	0	0	43	16	35	22	0	38	34	68	15	14	8	0	0	0	0	7	0	0	0	0	0
<i>Fursenkoina spp.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0
<i>Gavelinopsis praegeri</i>	0	6	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0
<i>Giroidina sp.</i>	0	0	0	0	0	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Haynesina depressula</i>	25	25	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0
<i>Hyalinea balthica</i>	0	19	9	0	0	7	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lagena laevis</i>	0	0	0	0	0	7	0	0	0	0	15	0	0	0	7	0	7	14	0	0	0	0	0

Supplement Table S1. Total faunas, normalized to 50 cm³

<i>Lagena semistriata</i>	0	0	0	0	18	0	0	0	0	0	0	0	0	8	7	0	0	0	0	0	0	0
<i>Lagena substriata</i>	0	13	9	32	53	22	14	0	34	34	0	0	15	15	0	8	14	14	0	9	0	0
<i>Lagena sulcata</i>	0	0	9	0	18	0	0	0	103	34	0	0	8	0	0	0	0	0	0	9	0	0
<i>Lenticulina</i> sp.	0	0	0	48	0	7	0	0	0	34	0	0	0	0	7	0	0	0	0	9	8	0
<i>Loxostomum</i> sp.	0	0	9	0	0	0	0	57	0	0	0	0	0	0	0	0	7	0	0	0	2	
<i>Nonionella</i> sp. T1	308	176	94	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nonionella iridea</i>	0	0	0	16	18	22	0	38	0	0	0	0	0	0	0	0	21	0	0	0	0	
<i>Nonionellina labradorica</i>	113	75	249	143	141	135	97	340	513	382	243	188	54	23	22	16	29	56	106	103	40	12
<i>Nonionoides turgida</i>	138	189	103	64	106	0	0	38	34	34	15	0	0	0	0	0	7	0	0	0	2	
<i>Nonionella</i> spp.	0	0	0	16	35	0	0	19	0	0	0	0	8	0	0	0	7	0	0	0	0	
<i>Nonionellina</i> spp.	0	0	17	0	0	0	0	19	34	0	0	0	0	0	0	0	0	0	0	0	2	
<i>Oolina melo</i>	6	0	0	0	0	0	0	19	0	68	0	0	0	0	0	0	0	0	0	0	0	
<i>Polymorphina</i> spp.	0	0	9	16	0	0	0	38	0	0	15	0	0	15	0	0	7	0	7	9	0	0
<i>Procerolagena clavata</i>	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Procerolagena grassilima</i>	0	0	43	0	18	15	0	0	0	0	30	14	8	23	7	0	0	0	0	9	0	0
<i>Procerolagena mollis</i>	0	0	17	0	0	0	0	0	0	0	0	0	8	8	0	0	0	0	7	0	0	0
<i>Robertina arctica</i>	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Rosalina</i> spp.	0	0	0	32	0	0	0	0	0	102	0	0	0	0	0	0	0	0	0	0	0	
<i>Stainforthia fusiformis</i>	126	119	746	669	827	277	373	340	547	306	258	838	1025	2029	402	541	1096	2112	1144	427	304	161
<i>Stainforthia loeblichii</i>	0	0	17	16	0	0	0	0	0	0	0	0	8	0	0	8	7	0	7	0	16	0
Hyalin indet (round)	0	0	9	0	0	0	0	0	68	68	15	14	15	0	0	0	7	14	14	0	0	2
Hyalin indet (twisted)	0	0	17	0	18	0	0	38	0	34	30	0	8	0	0	0	0	0	0	0	0	0
Hyalin varia	6	0	0	0	0	0	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0	2
<i>Adercotryma glomerata</i>	13	44	206	127	35	0	14	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0
<i>Amodiscus</i> sp.	0	0	9	32	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<i>Ammoscalaria pseudospiralis</i>	6	0	51	8	53	22	41	189	589	484	319	65	8	8	15	0	0	0	14	9	0	0
<i>Ammotium cassis</i>	1	0	0	80	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cribrostomoides crassimargo</i>	0	0	17	16	106	30	28	0	0	0	0	0	0	0	0	0	14	0	9	0	2	
<i>Cribrostomoides subglobosum</i>	0	2	0	0	0	0	0	19	0	0	0	0	0	0	0	7	0	0	0	0	0	0
<i>Cribrostomoides</i> spp.	0	0	206	207	317	45	69	19	103	170	46	116	62	38	44	16	21	28	14	26	16	2
<i>Recurvoides</i> spp.	57	44	0	0	53	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eggerelloides medius/scabrus</i>	189	170	1055	1115	986	847	1133	4327	7756	9279	5696	3769	1125	712	920	470	516	514	1349	1325	793	223
<i>Haplophragmoides bradyi</i>	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lagenammina difflugiformis</i>	25	6	26	0	70	0	0	0	26	0	76	0	0	0	7	8	7	14	0	17	0	8
<i>Leptohalysis scotti</i>	63	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Miliammina fusca</i>	0	0	26	32	0	7	0	19	0	102	0	0	0	23	0	0	7	21	7	9	0	2

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<i>Paratrochammina haynesi</i>	0	0	0	0	0	0	0	0	0	102	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Psammosphaera bowmanni</i>	6	0	0	0	18	0	14	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Reophax subfusiformis</i>	285	181	583	430	722	127	207	557	1102	1198	440	173	139	106	153	39	29	56	92	60	32	27																					
<i>Reophax</i> spp.	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Spiroplectammina biformis</i>	19	50	343	207	282	30	138	0	0	0	0	0	62	83	22	47	43	42	35	0	0	20																					
<i>Textularia earlandi</i>	57	0	60	0	88	0	0	0	0	0	0	0	0	8	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Textularia kattegatensis</i>	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Textularia</i> spp.	0	0	26	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Rotaliammina adaperta</i>	0	0	0	32	53	22	41	0	34	68	46	14	8	23	15	0	29	21	21	9	8	12																					
<i>Trochammina</i> spp.	0	0	0	0	53	0	28	19	0	102	46	29	8	0	0	24	0	21	0	9	0	0																					
Agglutinated varia	6	19	137	0	0	0	0	76	0	0	0	0	100	114	139	78	136	77	92	0	104	31																					
TOTAL	2192	2198	8472	7418	8933	3620	4304	11725	19544	22561	12015	8968	4045	4308	2511	2187	2694	4013	3963	2854	2147	788																					