

Intraspecific abundance - occupancy - patchiness relations in the benthic intertidal macrofauna c
cool-temperate North Sea mudflat.

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Summary intraspecific site data: abundance, % occupancy and Lloyd's patchiness for each the
10 most numerous and widespread benthic macrofaunal species in qualifying datasets from
12 replicate sites on Cockle Bight, Scolt Head NNR, Norfolk, UK (52°59'05"N,00°40'35"E)

	<i>Cerastoderma edule</i>			<i>Peringia ulvae</i>		
	nos m ⁻² (A)	% occupancy (O)	patchiness (P)	A	O	P
site 1	947	66.7	2.6	20323	100	1.2
site 2	401	62.5	1.0	40457	100	1.2
site 3	111	25.0	1.3	41911	100	1.0
site 4	141	28.6	1.5	47452	100	1.1
site 5				44411	100	1.2
site 6	506	70.0	1.1	49005	100	1.2
site 7	222	43.3	1.6	43843	100	1.1
site 8	148	26.7	2.2	70346	100	1.1
site 9	86	20.0	1.4	52982	100	1.4
site 10				24083	100	1.2
site 11				37151	100	1.1
site 12				31373	100	1.1
means	320	42.8	1.6	41945*	100.000	1.153

	<i>Carcinus maenas</i>			<i>Tubificoides benedii</i>		
	A	O	P	A	O	P
site 1	82	16.7	2.4	10558	91.7	2.2
site 2				1636	87.5	1.3
site 3	389	70.0	1.0	7186	100	1.2
site 4	212	42.9	1.0	10037	100	1.1
site 5	383	53.3	1.9	9238	100	1.2
site 6	1087	83.3	1.4	5064	100	2.0
site 7	222	53.3	0.4	4730	80.0	2.1
site 8	210	46.7	0.9	4125	90.0	1.8
site 9				4483	83.3	2.2
site 10	49	6.7	8.0	4298	100	1.4
site 11				3648	85.0	1.6
site 12				7575	100	1.1
means	329	46.6	2.1	6048*	93.1	1.6

	<i>Ampharete acutifrons</i>			<i>Pygospio elegans</i>		
	A	O	P	A	O	P
site 1	185	25.0	4.6	833	58.3	3.0
site 2	46	8.3	5.9	478	58.3	1.4
site 3	56	10.0	5.0	537	80.0	0.9
site 4	106	23.8	1.4	864	90.5	1.1
site 5				7595	100	1.1
site 6	667	40.0	3.9	568	70.0	1.1
site 7	148	26.7	3.1	1050	73.3	1.3
site 8	395	40.0	3.0	902	83.3	1.5
site 9	716	43.3	3.7	655	73.3	1.5
site 10	679	70.0	2.3	1692	93.3	1.4
site 11	93	10.0	10.3	1852	85.0	1.8
site 12				4389	100	1.2
means	309	29.7	4.3	1785*	80.5	1.4

	<i>Abra tenuis</i>			<i>Tubifex costatus</i>		
	A	O	P	A	O	P
site 1				2295	63.9	3.2
site 2	617	79.2	1.1	278	29.2	2.8
site 3	241	50.0	0.8			
site 4	194	47.6	0.4			
site 5	1655	100	1.4	803	76.7	1.7
site 6	827	90.0	1.2	568	46.7	5.2
site 7	1062	80.0	1.7	161	33.3	1.1
site 8	988	80.0	1.4	210	40.0	1.3
site 9	457	50.0	1.9			
site 10	309	43.3	2.0			
site 11	611	80.0	1.1	463	45.0	2.5
site 12	352	50.0	2.2	574	65.0	2.7
means	665	68.2	1.4	669	50.0	2.6

	<i>Limecola balthica</i>			<i>Fabricia stellaris</i>		
	A	O	P	A	O	P
site 1				82	11.1	8.2
site 2	170	66.7	1.3			
site 3	204	40.0	1.4			
site 4	141	33.3	0.8			
site 5	296	46.7	1.3	2161	93.3	1.6
site 6	296	63.3	0.5			
site 7	185	36.7	1.1			
site 8	99	23.3	1.1			
site 9	62	10.0	7.6	124	30.0	0.7
site 10				124	23.3	1.9
site 11				167	35.0	1.6
site 12	111	25.0	1.3	241	20.0	6.8
means	174	38.3	1.8	483	35.5	3.5

	number of cores	latitude	longitude
site 1	36	52 59 07 N	00 40 19 E
site 2	24	52 59 07 N	00 40 21 E
site 3	20	52 59 08 N	00 40 21 E
site 4	21	52 59 09 N	00 40 24 E
site 5	30	52 59 09 N	00 40 27 E
site 6	30	52 59 10 N	00 40 41 E
site 7	30	52 59 02 N	00 40 45 E
site 8	30	52 59 03 N	00 40 44 E
site 9	30	52 59 04 N	00 40 45 E
site 10	30	52 59 06 N	00 40 44 E
site 11	20	52 59 06 N	00 40 47 E
site 12	20	52 59 08 N	00 40 46 E

Interspecific species data across all 12 sites (from those represented by more than 1 individual)

	A	O	P
<i>Cerastoderma edule</i>	252.7	33.3	4.9
<i>Peringia ulvae</i>	41890*	100.0	1.3
<i>Carcinus maenas</i>	249.3	37.1	3.3
<i>Tubificoides benedii</i>	6095*	92.8	1.9
<i>Ampharete acutifrons</i>	283.9	26.8	6.2
<i>Scrobicularia plana</i>	66.9	15.0	2.5
<i>Eteone longa</i>	84.2	17.4	2.1
<i>Arenicola marina</i>	17.3	4.4	2.9
<i>Pygospio elegans</i>	1772*	80.1	2.8
<i>Abra tenuis</i>	638.2	64.2	2.1
<i>Scoloplos armiger</i>	62.3	3.4	40.4
<i>Capitella capitata</i>	16.2	3.1	13.2
<i>Tubifex costata</i>	513.5	36.8	8.4
<i>Aphelochaeta marioni</i>	113.1	13.4	10.1
<i>Anaitides mucosa</i>	15.0	2.8	26.7
<i>Limecola balthica</i>	133.9	26.8	1.6
<i>Heteromastus filiformis</i>	41.5	8.1	7.0
<i>Corophium arenarium</i>	11.5	2.5	19.4
<i>Fabricia stellaris</i>	271.2	21.5	10.0
<i>Hediste diversicolor</i>	62.3	13.4	2.9
<i>Littorina saxatilis</i>	62.3	11.5	6.0
<i>Malacoceros fuliginosus</i>	9.2	2.2	10.2
<i>Littorina littorea</i>	6.9	1.6	18.1
<i>Gammarus locusta</i>	4.6	0.9	40.5
<i>Crangon vulgaris</i>	19.6	3.7	15.7
<i>Retusa obtusa</i>	5.8	1.2	26.0

*these numbers differ slightly (<1%) because one is the mean of per site data (which differ in number of component samples) and the other is the mean number across all samples; those of other common species will differ

because the intraspecific set is based only on qualifying datasets,
the interspecific one on all datasets

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